

**On
*Planetary Paradigm***

Thereby Averting the Destruction of Our World

Rodney Shakespeare

**Foreword
by**



On
Planetary Paradigm

Thereby Averting the Destruction of Our World

Rodney Shakespeare

Former Visiting Professor of Binary Economics, Trisakti University, Jakarta

NB. Please ensure that the font size (of the print) in any publication is sufficiently large so that people with weak eyesight can read the text.

NB. The pictures and illustrations (in this file) may have moved from their original positions. This is likely to be particularly so with the visual summary of practical applications in Appendix Five.

11, Charman House,
Hemans Estate,
London, SW8 4SP,
United Kingdom

Email: Rodney.shakespeare1@btopenworld.com

Tel: (UK) 020 7978 1635

Contents

Abstracts	– 527 and 168 words
Dedication	
Poem	
Acknowledgements	
Foreword	
Preface	
Chapter One	– Unscientific thinking
Chapter Two	– Two serious consequences
Chapter Three	– Bad News
Chapter Four	– The elimination of ‘useless people’
Chapter Five	– The provenance of the mess
Chapter Six	– The third paradigm shift – A Shared World View
Chapter Seven	– <i>Tumbledown</i> becomes <i>Planetary Paradigm</i>
Chapter Eight	– A Town Hall meeting is called – polycrisis
Chapter Nine	– Progressive Innovators
Chapter Ten	– Length of battles is the biggest problem
Chapter Eleven	– The research of Rogers Hollingsworth and colleagues
Chapter Twelve	– First (false) mainstream assumption
Chapter Thirteen	– Second, third and fourth (false) mainstream assumptions
Chapter Fourteen	– Fifth (false) assumption – banks lend existing money
Chapter Fifteen	– Sixth (false) assumption – interest is necessary
Chapter Sixteen	– Seventh and eighth (false) mainstream assumptions
Chapter Seventeen	– Ninth to eighteenth (false) mainstream assumptions
Chapter Eighteen	– Efficacious paradigm
Chapter Nineteen	– Practical applications of the new paradigm
Chapter Twenty	– Other applications of interest-free loans
Chapter Twenty One	– A.I.D.S. and Reparations
Chapter Twenty Two	– Economic Democracy
Chapter Twenty Three	– The future
Appendix One	– 59 (false) assumptions of mainstream economics
Appendix Two	– Areas for development
Appendix Three	– Full payout of earnings
Appendix Four	– <i>Our Sacred Grove</i>
Appendix Five	– Visual summary of practical applications
About the author	
References	

Abstract – 527 words

A major paradigm is the societal, even civilisational, understanding of reality which decides what does, or does not, happen in everyday life. A paradigm shift, therefore, is of huge importance.

This book contains large-scale research into paradigm shift and sets out the factors contributing to a shift. The result is the *Planetary Paradigm* which, embodying understanding of universal unity and an all-pervading consciousness, knows that everything is interconnected and that the ecosystem is fragile. However, today's mainstream understanding of reality is reductionist and denies the fragility. It is also outdated, inaccurate and static. Consequently, because outdated paradigm is the cause of today's inefficiencies, injustices and depredations, a historical investigation is made into how this situation has occurred.

The investigation starts with astronomy and the geocentric Ptolemaic paradigm which viewed the Earth as God's Special Creation placed at the centre of the universe. From the placing was deduced an authoritarian *Divine Right* for rulers to rule and, because they are God's Children with high status, a right of planetary dominion for humans in general.

Then, in the first paradigm shift, the Copernican Revolution put forward an *opposite*, namely, the heliocentric (sun-centred) understanding of the universe which began the destruction of authoritarian rule but maintained the status of God's Children.

There followed the second paradigm shift which was not in astronomy but in biology. This was Darwinism which, again putting forward an *opposite*, revealed that humans are not God's Children but rather only one species among many species engaged in a daily struggle for survival. Darwinism (together with other philosophical notions of the period which developed the concept of a selfish *Homo economicus*) then summarised the meaning of life as *Survival of the Fittest* with consequent implications for aggression, colonialism and depredation of the environment.

At the same time as Darwinism, the mainstream paradigm for economics was consolidating its fundamental assumptions about reality which, unfortunately, (because of the social and technological effects of the Industrial Revolution), had already become profoundly false and out of date.

Today's task, therefore, is to comprehensively address the consequences of the (astronomy) Copernican Revolution and (biology) Darwinism while, at the same time, identifying the false assumptions underlying mainstream economics. To date, 59 false assumptions have been identified and, amazingly, it is discovered that the *opposites* (of the false assumptions) are true! Thus the *opposites* become available to form the components of the new major paradigm which is not reductionist but, instead, is comprehensive, modern, accurate and dynamic. In particular it is capable of solving today's global problems which, at present, appear to be insoluble. Therefore, (assuming that the human race manages to avoid destroying itself in the

On Planetary Paradigm

meanwhile), we will soon be experiencing a third paradigm shift creating a Shared World View against which policy decisions can be measured and judged.

This View – particularly in its understanding of consciousness and paradigm – is capable of unifying Science and Religion and has practical outcomes including universal basic income, capital ownership and voluntary population stabilisation or reduction. These outcomes will create circumstances in which a selfish *Homo economicus* is enabled to evolve into an environmentally responsible *Homo co-operans* thereby providing hope for the future of our world.

Abstract – 168 words

A major paradigm is the societal understanding of reality deciding what happens in everyday life.

This book deals with the factors necessary for a paradigm shift. Two major shifts – the Copernican Revolution and Darwinism – are examined.

A third shift is needed because today's world is controlled by outdated, inaccurate and reductionist thinking. Consequently, the world is in polycrisis with intractable problems.

However, the third shift can happen because 59 factual assumptions underlying mainstream thinking have been identified with ALL of them being found to be false and so the cause of today's inefficiencies, depredations and injustices.

Fortunately, the **opposites** (of the false assumptions) are discovered to be true! The **opposites** then enable efficacious solutions to the problems.

The solutions include universal capital ownership; basic income; 'green' investment; and, crucially, circumstances enabling selfish *Homo economicus* to evolve into responsible *Homo co-operans*.

The *Planetary Paradigm* opposes 'globalisation' and promotes an interconnected, wholesome world while, in its understanding of consciousness and paradigm, it may be capable of uniting Science and Religion.

Keywords: Planetary paradigm; paradigm; paradigm shift; Copernicus; Darwin; false assumptions; economic democracy

When reality is accurately understood, new policy options easily arise

This Book is Dedicated

To

People of faith or, simply, of good faith

activists

environmentalists

economists

politicians

humanists

academics

scientists

plain decent folk

and

courageous leaders of thought

Who are invited

To throw out the Old Guard

and

Bring in the New

Now – or Never

Current polycrisis teaches us that humanity
must evolve in consciousness,
far beyond what it thinks is intelligent;
far beyond its pride in technology,
far beyond ingrained, encultured egotism.

We need to seek free springs of knowledge
flowing directly from a new *Paradigm*
with urgent rediscovery of eternal gifts,
history's great triad – Faith, Hope and Love –
lived in societal structures of just co-operation.

The Reverend Canon Peter Challen

Acknowledgements

In 1962, Thomas Kuhn described paradigm. However, it was then to be 40 years before there was large-scale historical research explaining the factors necessary for achieving a paradigm shift. The research (whose main principles were verbally communicated to this author at a Conference in 2000) was done at the behest of the American government, cost a substantial amount of money and was carried out by Professor Rogers Hollingsworth and colleagues.

Nevertheless, the research is not widely known and its precise location is unknown (or at least unknown to this author) because it may have been suppressed.

Suppression

The reason for the suppression is possibly because the research implies that American society – then having a flush of triumph after the fall of Soviet communism – is not the *End of History* (Fukuyama, 1989) but rather something likely to need improvement.

Alternatively, the suppression has something to do with the nature of the third factor required for a paradigm shift.

Recognition and thanks

Whatever the truth, Rogers Hollingsworth and colleagues have the credit for explaining the factors contributing to paradigm shift and recognition of their research is long overdue.

Michiel Bijkerk, Peter Challen, Talib Warsi, Simon Mouatt, Cedric Born and Masudul Alam Choudhury are thanked for help and encouragement. The UK National Health Service is thanked for its ministrations.

Town Hall meeting

This book contains some difficult and unusual concepts. Therefore, at the appropriate point, the literary device of an extended Town Hall meeting is introduced so that the concepts can be presented in an easily digestible form.

A shortened version of this book is being published, April, 2026, in JOCRISE – Journal of Critical Realism in Socio-Economics.

Foreword

To be written.

Preface

A major paradigm is the societal, even civilisational, understanding of reality which is based on factual assumptions and ultimately decides what happens in everyday life. It exists at a particular time and does not necessarily evolve or change.

Indeed, major paradigms tend to ossify becoming outdated, inaccurate and static. Consequently they ignore anomalies and, in particular, fail to take account of significant technological, economic and social developments. Whereon unease spreads; doubts about the paradigm's value start to grow; disillusionment sets in, and calls for reform are heard.

Outdated paradigm maintains the power of the social and political elite

However, despite the disillusionment, despite the calls for reform, nothing happens – the overall situation remains static. In short, the outdated paradigm (together with its associated everyday practices) continues to prevail.

All of which is not chance. Indeed, there is deliberate causation because, in a fundamental way, the outdated paradigm is the intellectual, moral and psychological basis of the power of the social and political elite. As such the outdated paradigm is claimed to be an incontrovertible, accurate, even God-given apprehension of reality with those who dare to differ being identified as irresponsible wreckers of the (desirable) *status quo*.

Paradigmatic crisis

Nevertheless, as the anomalies continue to be ignored and no account is taken of significant technological, economic and social developments, researchers become restless; discontent simmers; opposition grows – and soon a paradigmatic crisis (which is more profound than a political crisis) breaks out into the open.

And *that* is the situation we are in today....

Paradigm shift

The paradigmatic crisis is the reason for this book which contains large-scale research into the factors contributing to paradigm shift and so the possibility of considerable benefit for humanity.

Mainstream factual assumptions

In particular, the book identifies the factual assumptions which underlie mainstream thinking.

Readers are firstly invited to review the factual assumptions.

Secondly, they will notice that, in practice, the assumptions decide what does, or does not, happen in everyday life.

On Planetary Paradigm

Thirdly, they will understand that the assumptions must be robustly challenged because they are ultimately responsible for the inefficiencies, distortions, depredations and injustices which beset us today and disfigure our planet.

Fourthly, they will be surprised to discover that the assumptions are not only **false** but that their **opposites** are true!

Fifthly, they will have the pleasant experience of a paradigm shift giving their lives cohesion, meaning and purpose.

An expression of scientific method

It should also be noted that the exploration of basic assumptions necessarily goes deeper than a mere reassessment of political parties and societal institutions. This is because the *Planetary Paradigm* manifests a realistic grasp of physical reality and so is *an expression of scientific method*. Thus the *Paradigm* comprehensively addresses facts, applies logic and ensures coherence in overall explanation.

The result is that the present mainstream paradigm – which is an outdated, inaccurate and static understanding of reality – is replaced by the *Planetary Paradigm* which is not only modern, accurate and dynamic but is profoundly scientific having potency comparable to that of the Copernican Revolution.

Interconnection and reductionism

The *Planetary Paradigm*, however, differs remarkably from conventional science in that it encompasses content which goes far beyond that of a traditional academic subject. Indeed, it encompasses at least fifteen academic subjects (including ethics).

This happens because the *Paradigm* knows that *everything is interconnected*. Thus the *Paradigm cannot be reductionist* and, as such, demands that interrelationships be everywhere identified. This is so even though academic ‘silos’ and massive amounts of subject-centred information seem to force knowledge to be sectioned and understood only within narrow confines.

Scientific awareness of an all-pervading, universal sea of consciousness

Furthermore, there is a profound reason for upholding the interconnectedness. It arises out of an increasing scientific awareness that everything seems to be somehow related to everything else. Indeed, there are indications that living things (such as ourselves) exist on the edge of, or possibly within, an all-pervading, universal, sea of consciousness into which they can at least paddle (but should do so with caution).

Moreover, living things could be related to non-living things because the implication of measurement experiments in quantum mechanics is that *humans can never separate their conscious experience from nature*. It is almost as though, all the time, we are inside nature rather than thinking of ourselves as being outside.

On top of that, quantum entanglements (described by Albert Einstein as “spooky action at a distance”) have implications for interconnectedness going far beyond the usual physical limitations.

Fragile ecology, global responsibility and existential risk

Nevertheless, temporarily setting aside the implications of an all-pervading sea of consciousness, it suffices to observe that humans are a species which is *part of, and not separate from*, our planet as a whole and so it behoves us to face up to, and undertake, a global responsibility.

Aware of the interconnections and the responsibility, therefore, we can easily understand that humans are biological organisms physically dependent upon a fragile ecology. Indeed, it is salutary to remember that, even after only apparently minimal changes in environment, disaster jumps up and many species have disappeared.

In fact, as explained by the Cambridge (UK) *Centre for the Study of Existential Risk* and others, there are many risks to human existence. They include pandemic viruses; flooding; loss of native pollinators; desertification and depletion of resources.

It is therefore hubristic to think that the human species is immune from disaster and guaranteed to survive.

Doomsday Clock – 85 seconds before ‘midnight’

In particular, we should also remember that humans exist within a social *milieu* (the surrounding society) which must be physically, politically and spiritually healthy if, again, our species is to survive.

Above all, it is incumbent upon us to avoid – this is a gentle reminder – not only war but that war which is capable of destroying everything.....

Alas! The Doomsday Clock is now only **85 seconds** before ‘midnight’ and people are either ignoring the danger completely or, in some cases, naively dreaming of being saved from destruction by some benign, outside, extra-terrestrial intervention. In respect of the latter, it should be noted that, although there is some evidence of extra-terrestrial incidents in our world, there is no evidence of any future benign extra-terrestrial intervention which would prevent atomic war.

The *Planetary Paradigm* transcends traditional left-right discourse

The *Planetary Paradigm* transcends traditional political and economic discourse about left and right. That said, this book does provide a practical mechanism for spreading capital ownership and implementing, over time, a Basic Income for everybody. Moreover, both measures operate within the ‘market’ system which is improved so that producers and consumers really do become the same people (as is required by Say’s Theorem).

Furthermore, in the *Planetary* economy, people’s current economic interests are **not** threatened or negatively affected.

Indeed, **EVERYONE** gains from implementation of the *Planetary* economy because it ensures that the benefits of technological and natural productiveness are not only advanced but become available to **ALL** people (rather than, as happens at present, only a few).

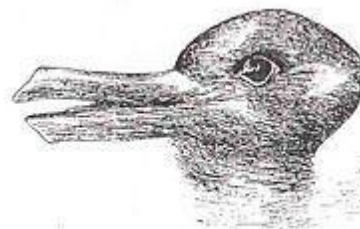
Psychological problems and joyful experience

Lastly, it should be observed that psychological problems can arise when people, in a sudden shock, realise that much of the intellectual, psychological and even career basis of their lives so far has been built on sand rather than rock.

Yet, despite the shock, they should take heart because, at some time or another, we all have to start anew and starting anew can be a joyful experience.

A taste

Here is a taste of the experience.
Do you see a duck or a rabbit?

**Note – Christmas Dinner**

It could be helpful to think of this book as a slap-up Christmas Dinner.

Taken at apparently the lowest point of the year (although, in reality, the sun is already strengthening), the Dinner has a wide range of colourfully-presented, nutritious goodies including Christmas pudding which is best eaten a little at a time and chewed thoughtfully....

When reality is accurately understood, new policy options easily arise

Chapter One**Unscientific thinking****Abstract**

Mainstream economic and political thinking is unscientific. It is not only the basis of false factual assumptions about reality but also the foundation of an elitist power structure. One of the false assumptions causes a historical, technological and holistic failure to understand how production actually happens today.

Mainstream economic and political thinking complacently believes itself to be a paragon of accuracy, objectivity, efficacy and comprehensiveness. The new paradigm, however, challenges that belief. In fact, mainstream thinking is inaccurate, grossly biased, inefficacious and selective. Put shortly, it is wrong.

“Impossible!” a voice exclaims. “Is not mainstream thinking the progenitor of aeroplanes, medicine and the internet?”

Yes. But that is mainstream *scientific* thinking and not today's mainstream economic and political thinking which, far from being scientific, is *unscientific*, contradictory, outdated and determined to obfuscate wherever it possibly can.

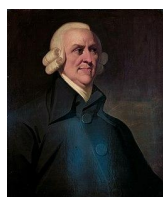
Furthering the interests of an elitist power structure

The lack of a scientific approach arises because the purpose of mainstream economic and political thinking is to further the interests of an elitist power structure rather than those of society as a whole. Indeed, in pursuit of that purpose, reality is twisted, untruths are told, contradictions ignored and opponents smeared. This happens because a power structure always thinks that, in the cause of perpetuating its own existence for ever, anything – from lies to imprisonment, torture, killing (and, yes, war) – is permissible.

In short, false thinking and false propaganda are used to further the interests of an elite bent on self-aggrandisement. At the same time, accurate thinking and true perceptions are suppressed because of their ability to initiate substantial and beneficial societal change.

False understanding of the Industrial Revolution

Furthermore, let nobody be under any illusion as to the extent of the falsity.



For example – and this is extraordinary – mainstream economics and politics have apparently never heard of the Industrial Revolution with its associated powerful machinery and technology – steam engines, spinning jennies, flying shuttles and Bessemer furnaces. Beginning about two hundred and seventy years ago, the Industrial Revolution introduced mass production which has continued to expand ever since.

Yet mainstream economics still worships Adam Smith who (in *The Wealth of Nations*, 1776) falsely asserted that all output of goods and services is the result of human labour thereby ignoring the contribution to output coming from non-human things such as machines, technology and the bounty of nature.

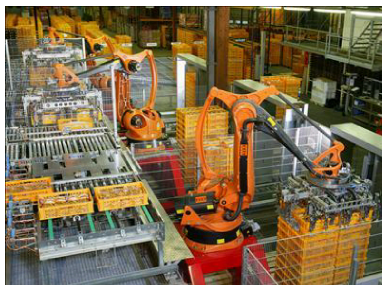
The Smith assertion, moreover, essentially says that, because human labour creates all the output of goods and services, there will always be plenty of good jobs for everybody in the future. Furthermore, the assertion restricts machinery and technology to a role in output which is minor at best and so downplays the considerable benefits that derive from ownership of machinery and technology.

Therefore, while it is true that craftspeople – e.g., carpenters, millwrights, stone masons and blacksmiths – originally made the machinery and technology, those same craftspeople (and their descendants) are denied an ongoing capital income coming from ownership of machinery and technology (which income is inherently increasing).

Thus, today, the craftspeople – and billions of others – are confined only to labour income (i.e., jobs, if possible; and welfare income, if available) which, relative to capital income, is in decline. Indeed, determined to deny a general right to *increasing* capital ownership income and only allow a right to (relatively) *decreasing*

labour income, mainstream economics simply promotes a complete falsity – that, in a task, human labour creates all, or most, of the output.

Fully automated factory



Consequently, when considering the output of a fully automated factory – the first automated factories were being constructed 60 years ago – mainstream economics thinks that all the output is created by humans. The actuality, of course, is a complete *opposite* (or near-opposite) because in an automated factory there is *no* (or only minimal) human involvement!

NB. The work of the designers and constructors of an automated factory is over and they have long ago been paid while maintenance and repair workers are *not* part of the production process – they are like your doctor who repairs you but has no claim on your productive output.

Other automated things

Failing to understand that an automated factory *really is automated* is extraordinary enough and it's the same with not understanding the significance of other automated things e.g.:- a self-opening door; a moving staircase; a lift/elevator; or a computer-controlled car. Indeed, readers might wish to consider that mind-boggling thing – the internet – which, crossing continents, operates largely, if not completely, by itself. Moreover, X-ray machines do incredible things by themselves as do washing machines and street lampposts.

Mundane things

And then readers might also wish to reflect upon the input contributions made by mundane things such as:-

- sidewalks or pavements (which help us to walk easily)
- bicycles (enabling journeys of miles)
- ladders, garden spades, kitchen knives and monkey wrenches
- pipelines

All these input things contribute massively to output.

Natural things

Furthermore, in upholding the Adam Smith belief that human labour creates everything, mainstream thinking simply ignores many natural things. For example, (being self-centred, controlled by outdated dogma and unable to use its own senses), mainstream thinking ignores the contributions to output of water and oxygen (which enable our bodies and brains to function).

Chickens, plants and trees

On Planetary Paradigm



Yet perhaps the biggest weakness of mainstream thinking is its inability to comprehend the true contribution to output made by living things – animals, plants and trees. Indeed, it is incredible that mainstream economics apparently thinks that humans (and not chickens) do the work of producing eggs; and that trees never grow by themselves until, at the very least, a human starts looking at them.....!



And – yes – an acorn contributes to production (it grows into an oak tree). Even the squirrel, which buries the acorn, makes a contribution.



Moreover, forest fungi and plants engage in a vital, ancient, symbiotic relationship (called *mycorrhiza* or 'wood wide web') in which they swap essential nutrients and resources. *Mycorrhiza* are contributors to production.

Planetary capital instruments

In short, mainstream economic and political thinking, having a narrow, reductionist view of reality, fails to take proper holistic account of the productiveness contribution made by the planetary capital instruments.

NB. Planetary capital instruments are *not* conventional capital instruments.

ANY non-human thing which contributes to the production of goods or services is a planetary capital instrument. Further examples are:- a pair of scissors; a screwdriver; fertile land; mineral land; forests; a bridge over a river; a pump; a building; a needle; a house; a road; a ship; an aeroplane – *and the sun* upon which all life depends (although the sun is not something that can be owned).



Bounty of technology and nature

Therefore, in reality, in most tasks today human labour is, at best, only doing *part* of the input work while a bigger, ever-increasing, part is being done by the planetary capital instruments. And so, in alleging that human labour creates all goods and services, mainstream thinking is simply denying all that productiveness which is provided by the bounty of technology and nature. Consequently, there is a historical, technological and holistic failure to understand how production actually happens today and, inevitably, the failure has serious consequences.

Chapter Two

Two serious consequences

Abstract

The historical, technological and holistic failure to understand how production actually happens today has two serious consequences:-

1. an inability to grasp the true cause of persistent poverty
2. the invalidation of mainstream economics and politics

1. Inability to grasp the true cause of persistent global poverty

The historical, technological and holistic failure to understand how production actually happens today has two serious consequences. The first – and this is very serious – is an inability to grasp the true cause of persistent global poverty. That cause is a lack of, or inadequate access to, the productiveness of planetary capital instruments.

Thus half the world's population lives on under \$5.50 per day – that's for everything including travel, accommodation, food, medicine and dentistry (Oxfam, 2019). However, the mainstream explanation for this is that, because labour creates all, or most, of the output, people are poor because they are unwilling to work or become trained and educated.

Yes, mainstream economics – with the extreme self-righteousness of those who believe that God is on their side – is claiming that billions of people are poor because they are layabouts and good-for-nothings! Which is a gross insult because, all around the world, people are willing to work hard and be educated but, even when educated, are still unable to get a job.

Moreover, even when they do have jobs, people are low paid and insecure. Furthermore, they are without protection against environmental hazard (see the work of Berggruen Philosophy Prize winner Paul Farmer) or natural disaster.

Furthermore, they are indebted to usurious money lenders and have no hope of ever saving enough money to start their own business.

In fact, most of the time, their lives are some form of desperate attempt to avoid falling into penury with consequent risk of starvation and death while **women are in a particularly precarious position** – see the work of Berggruen Philosophy Prize winner Patricia Hill Collins.

The situation can be summed up by a simple image – even today, gleaning women can be seen. After a harvest, the women pick up the few grains which are left unless, of course, small birds peck them up first! And because 860,000,000 people have to try to survive on only \$1.90 per day (that's for everything – Oxfam, 2022), the situation in many parts of the world has not much changed since, in 1857, Jean-François Millet painted *The Gleaners*.



However, it never occurs to the mainstream economists and politicians that the persistent poverty is *not* because of an unwillingness to labour but rather because people are denied access to the ever-increasing productiveness of the planetary capital instruments.

2. Invalidation of mainstream economics and politics

The second serious consequence is the invalidation of mainstream economics and politics. The invalidation arises the moment economists and politicians claim that they are concerned with forwarding the production of goods and services and supervising the distribution of the associated income. However, the truth is an *opposite* – in reality they are *hindering* the production and *preventing* the distribution.

This happens, firstly, because they do not understand that material progress is caused by technological advance and natural bounty as embodied in the increasing productiveness of the planetary capital instruments.

Secondly, *by never considering whether the productiveness is widely and fairly distributed throughout the population (by ownership of, or access to, planetary capital instruments)*, mainstream economists and politicians are not only hindering progress for the many but also invalidating the existence of their own professions.

False propaganda asserts that overall productivity is rising

Unfortunately, recovery from invalidation will always be difficult for some unless they also understand that they – and everybody else – are subject to a false propaganda asserting that overall labour productivity is continually rising (rather than there being an overall continually rising productiveness of the planetary capital instruments).

The false assertion of a continually rising labour productivity enables the propaganda to claim that the 'free market' is a success. But the claim hides the fact that the true source of the success is *the continually rising productiveness of the planetary capital instruments*. Moreover, the claim forgets that the benefits of the continually rising productiveness of the planetary capital instruments are being largely, and quite unnecessarily, restricted to a small percentage of the population.

Today there is no true free market

Furthermore, the restriction causes an overall inefficiency because the operation of a true free market requires that:-

- those who actually do the production should receive the benefit thereof ***while, at the same time,***
- productive capacity *must be widely and fairly spread throughout the population* so that people's individual consumption is equal to their production.

Neither of these requirements exists today. Consequently, there is no true free market.

Jean-Baptiste Say's Theorem ('Law')

NB. The above requirements are an expression of JB Say's Theorem which says that, in a true free market, *supply equals demand*. (Say, 1803) However, the equality does *not* exist in practice today (which is one of several reasons why the present 'free market', in practice, is *unfree* and is *not* a true free market).

Moreover, it is also why the so-called Say's Law is *not* a scientific law in reality.

Detachment from reality – angels dancing on the head of a pin

In summary, mainstream economics and politics are invalid because, in alleging a continually rising productivity of labour (rather than an actual rising productiveness of the planetary capital instruments), they have become completely detached from physical reality.

Indeed, such the detachment, mainstream economics and politics appear to inhabit one of those medieval seminaries where there was much meretricious debate about how many angels can dance on the head of a pin.

Very obviously, it's time for a change – and a big one, too!



Chapter Three

Bad News

Abstract

The case for a big change is the stronger because there is much Bad News which includes environmental destruction and an inability to achieve positive developments thereby endangering civilisation. But it's worse than that because a selfish, wealthy elite (with exceptions) is not only bent on owning and controlling everything but is pointing out that, in future, most people will have no productive function and so will be (in the view of the elite) 'useless' and therefore of no value.

The case for a big change is the stronger because there is much Bad News. For 25 years or more, economists and others have realised that something is amiss with the basic principles of their study. However, only now – and belatedly – are they beginning to define what is wrong and, in particular, waking up to the need for sustainable, rather than exploitative, growth. Only now are they beginning to sense that a division between humankind and the environment is a mistake.

Yet environmentalists have been awake at least since 1962 (when Rachel Carson noticed the *Silent Spring*). Increasingly worried by flooding, for example, (although drought is another worry), they are pointing to the need for sustainable retreat and so are advocating the evacuation of millions of people from low-lying

On Planetary Paradigm

areas such as those in Bangladesh, Pakistan and the Mississippi floodplain. Indonesia, moreover, because of flooding, has decided to move its capital city – Jakarta – over 1,000 kilometres to Borneo.



At the same time as flooding, wild fires are increasing and both phenomena are being reflected in steeply increased insurance rates.

Civilisation is endangered

Even worse, environmentalists such as the late James Lovelock (of *Gaia* fame) see civilization itself as endangered. The danger arises because environmental destruction and ecocide, if not resulting in overall global catastrophe, could only too easily result in chaotic, violent, societal circumstances creating the satanic warlords of George Orwell's *Nineteen Eighty Four* (1949).

There is also the increasing possibility of something akin to an electronic concentration camp run by the ghoulish technocrats of Aldous Huxley's *Brave New World* (1932). In that bio-engineered world there would be a relatively small population completely controlled – physically and mentally – by a tiny elite using Artificial Intelligence, digital currency with 'social controls' and the Metaverse (a computer, immersive, interoperable, synchronous, absorbing, digital experience).

A deep intellectual and spiritual inertia

Nevertheless, while there is commendable protest (especially from some of the young), things stay the same. It is as though a monolith is crushing ideas and resisting all substantial change. The result is a deep intellectual and spiritual inertia.

But why – when danger threatens – is there inertia? Why is the 'Green' movement, for example, struggling to succeed? Why do 'alternative' schools of thought generally fail to get their proposals implemented?

The cause of the inertia – 59 false assumptions about reality

The answer is that all proposals – 'Green', 'alternative' or even conventional – are asking to be implemented in today's societies which are based upon 59 false, outdated, interconnected assumptions about reality. These assumptions are the components of the prevailing paradigm and paradigms decide what does, or does not, happen in everyday life. The proposals, therefore, whilst often apparently admirable in themselves, conflict with the false assumptions and so inevitably come up against diehard opponents (of many academic backgrounds) determined to uphold the *status quo* and oppose any change – even if that means extinguishing the human race....



Pontificators

Chief among these diehard opponents are the pontificators who think that only *they* know what is practical. Being both obstructionist and prevaricating, they are out of touch with reality. Indeed, showing little, even no, sense of history and devoid of empathy, they are often ensconced in government and university departments where, intentionally or not, they promote antiquated policies *in practice* bringing death to millions now and millions more in the future. An example is that, globally, every day, *ten thousand* people (half of whom are children) die from the effects of dirty water. (Water)



The true meaning of the *Great Reset*

It won't be death for everybody, of course, because the oligarchic elite will survive. Thinking only selfishly, it is building doomsday bunkers and buying remote islands while ensuring it owns and controls everything.

And let nobody have any illusions – a rich elite owning and controlling everything (including humans) is the true meaning of the *Great Reset* now being canvassed at the highest levels (particularly by the *World Economic Forum*).

As rich as Croesus



In fact, the *Great Reset* elitists want to be as rich as Croesus and, in every way they can think of, indulge themselves in excessive consumption (rather than, as some do, using their wealth for the benefit of others). Actually, they want to be *richer* than Croesus – their greed is endless – and they think that everybody else should live in abstemious poverty, for the sake of the environment, of course! (Consortium News)

The egocentric hypocrisy of the *Great Reset* elitists is astonishing (although, of course, there are some admirable exceptions).

Composition and practices of the elite

The elite essentially consists of a wealthy oligarchy comprising well under 1% of the global population with interlinked shareholdings in huge financial institutions. All the time, the elite hogs assets to itself and its preferred methods for taking over basic infrastructure, public utilities and social services are financialization (Palley, 2007) and privatization.

A 2011 global analysis shows that 147 companies control 40%, and 737 companies control 80%, of the global economy. Financial institutions predominate. There are also private companies and wealthy individuals with opaque (often off-shore) holdings in trusts, property and the like. (Vitali *et al*, 2011) (Piketty, 2013)

Vast network of patronage and an elite of bankers

On Planetary Paradigm

The elite is financially and politically dominant because it is supported by academics, politicians and a technocratic management class creating a vast network of patronage which exercises intellectual and psychological control via the mainstream media, political parties and most (but not all) schools and universities. David Rockefeller (founder of the elitist *Trilateral Commission*) has expressed the concept of elitist control while referring to world government:-

The world is now more sophisticated and prepared to march towards a world government. The supranational sovereignty of an intellectual elite and world bankers is surely preferable to the national auto-determination practiced in previous centuries. (Aspen)

Basic aims of the elite – You’ll own nothing and you’ll be happy!

Furthermore, the *World Economic Forum* – which organises those infamous annual meetings in Davos, Switzerland – says that, in future, *You’ll own nothing and you’ll be happy!* (World Economic Forum)

On top of which, particularly because of the power arising from ‘social credit’ digital money, an authoritarian technocracy is being proposed by international finance. As Ellen Brown has written:-

You will have an account with the central bank and a mandatory federal digital ID. You will receive a welfare payment in the form of a marginally adequate basic income – so long as you maintain a proper ‘social credit’ score. Your central bank digital currency will be ‘programmable’ – rationed, controlled, and cancelled if you get out of line or disagree with the official narrative. You will be kept happy with computer games and drugs. (Global Research)

Extensive unemployment – ‘useless people’

But being ‘kept happy’ assumes being allowed to have reasonable lives – and assuming *that* could prove to be a very big mistake because, in the first instance, extensive unemployment is looming. With amazing candour and stark brutality, Yuval Noah Harari (of the *World Economic Forum*) is succinct:-

What to do with all these useless people?...When they are basically meaningless, worthless....? (Harari)

Harari then answers his own question. The ‘useless people’ will be controlled by:-

A combination of drugs and computer games....

And, **NB**, by enabling the Metaverse to take over people’s lives.

He follows this up by describing the income of ‘useless people’ saying it will only be ‘*some crumbs like universal basic income*’.

People realize that “The future doesn’t need me. ... Maybe if they are nice, they will throw some crumbs my way, like universal basic income.”

The unproductive ‘vast majority’ will not be needed

On Planetary Paradigm

Harari (who also foresees the demise of religion and the family) goes on to trumpet the unwholesome truth as seen by the *World Economic Forum* that, in future, the vast majority of the population **will not be needed**:-

We just don't need the vast majority of the population because the future is about developing more and more sophisticated technology, like artificial intelligence and bioengineering. (Harari)

Thus *they* (i.e., the *World Economic Forum* and the *Great Reset* elite including the *Bilderberg Group* and the *Trilateral Commission* whose tentacles control most of the world), *don't need* 'useless people' who are the inevitable result of:-

- the growth in Artificial Intelligence
- the arrival of the 4th Industrial Revolution
- bio-engineering
- IoT – the *Internet of Things*. There are already 22 billion devices 'talking' to each other
- drones, voice recognition, virtual assistants, payment systems, translation software

all of which are eliminating regular, secure, well-paid jobs.

And therein lies the crunch issue – according to the *Great Reset* elite, these 'useless people' (in debt; hooked on drugs, social media, video games and the Metaverse) are useless because they have no productive function and therefore no value. Indeed, the elite views with contempt those it deems as 'useless'.

Furthermore, the lack of a productive function for the majority of people has an astonishing meaning – that only the tiny elite (i.e., the owners and controllers of the future technology) is, and will be (in its self-centred view):-

- genuinely productive
- entitled to own the future technology and be its beneficiaries

In short, the tiny elite (in its self-centred view) is not only entitled to own and control everything but it also has the strongest possible sense of the moral worth of its own existence combined with a complete inability to comprehend the worth of the existence of anybody else.

Unfortunately, when people view others as worthless the consequences can be dire.

Chapter Four

The elimination of 'useless people'

Abstract

When people view others as worthless the consequences can be dire. Indeed, so dire that the elimination of billions of people is now in prospect.

Power tends to corrupt: absolute power corrupts absolutely

It is a truism of history that ***Power tends to corrupt: absolute power corrupts absolutely.*** (Lord Acton) And the arrival of an unproductive 'vast majority' is certain to result in those who are powerful viewing those who are 'useless' as inconvenient trash to be eliminated as quickly as possible.

Elimination of those who consume

Unfortunately, the desire to eliminate 'useless people' then combines with the desire to eliminate those who consume because, ever since the Club of Rome in 1972, the global elite has wanted to reduce people's consumption – except its own, of course. (Club of Rome) Thus, when an elite feels that its own consumption (and overall claim on global resources) is in any way threatened, it is only too likely to want to reduce, even eliminate, that threat.

Elimination of population

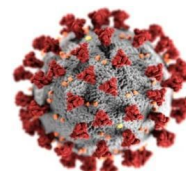
Moreover, the amount of consumption is largely related to the number of people and so questions arise as to the global elite's attitude towards population levels. Thus a situation is developing in which there could be the elimination of billions of people and there is talk today of the need for a global population *under 7%* of the present total – see the now-destroyed Georgia Guidestones. (Georgia) Authors such as Paul R. Ehrlich have suggested a global population about one third of the present level. (Ehrlich)

No voluntary way of reducing consumption and population levels

The key point is that the global elite *has no voluntary way* of reducing consumption and population levels. Consequently, people are fearing that the elite will resort to an *involuntary way*. Is this possible?

Viruses

Alas! It is only too possible. Indeed, many people fear the elitists intend using laboratory-created viruses to reduce the population. This fear, for example, was expressed by Mahathir Mohamad the former Prime Minister



of Malaysia. (Mahathir, 2015) In fact, there are many bio-laboratories doing gain-of-function (i.e., *strengthened*) bat virus research and the Wuhan laboratory holds a patent for a new type of bat cage. (Wuhan)

Pentagon bio-laboratories

Moreover, there are question marks over the true purpose of the bio-laboratories – and the admission by the Pentagon that it is funding an astonishing *forty six* such laboratories in Ukraine increases the question marks. (Pentagon, 2022) And so people are fearful of pandemic viruses; sceptical about a natural explanation for their origin; and worried about the purpose of the associated vaccines.

Indeed, it sometimes feels as if (in addition to a **Forever War** ethos created by the global elite as in George Orwell's *Nineteen Eighty Four*), some form of Forever Pandemic is to be inflicted on us for evermore.

A morally degenerate fascism

All of which reveals the awkward truth that:-

Whereas

- God values ALL human beings (as does the *Planetary Paradigm* and the ethical approach of Berggruen Prize winner Peter Singer)

and

- belief in God is a valuable bulwark against those who view others as 'useless',

the Great Reset elitists (although there are exceptions) value NONE – except themselves....

And so, because of their designation of the majority of people as becoming 'useless', there is no reason (in the eyes of the elite) not to eliminate those who are 'useless'. Consequently, a morally degenerate fascism, with no compunction about killing people, is in prospect.

Insufferable arrogance and lunatic hubris

Furthermore, plans for population reduction are apparently confirmed by the elite's insufferable arrogance. At the *World Economic Forum* in 2022, for example, then-Chairman Klaus Schwab, well known for bragging about his organisation's political influence, referred to the 'global agenda' and boasted that:-

The future is built by us, by a powerful community as you here in this room. (Schwab)

NB. Built 'by us', and *not* built by everybody. This is the lunatic hubris which comes from youthful absorption of Ayn Rand's *The Fountainhead* (1943) and *Atlas Shrugged* (1957). It combines an extreme individualism and selfishness with *laissez-faire* capitalism telling us that only 'Captains of Industry' have the answer to today's problems. Thomas Carlyle – who was also obsessed with 'Great Men' – is probably jumping out of his grave with delight. (Carlyle)

Warning

So let nobody be taken in by the claim of the *World Economic Forum* and the *Great Reset* elite that they are protecting 'Western democracy', 'European values' or 'human rights'. *They are doing nothing of the sort*, have no intention of doing anything of the sort and will only be content when *they* are in complete control and everybody else has been subjugated.

Stop and think!

In short, the intent of the *Great Reset* is:-

- no private property for most people
- elimination of small businesses and farms
- a tiny basic income for most people
- exorbitant riches for the few
- constant control and surveillance
- an authoritarian technocracy
- reduction of population – probably by *involuntary* methods



All in all, the overall situation is beginning to look much like something run by the ghoulish technocrats of *Brave New World*. Somehow, we have to get out of this mess. And a start can be made by tracing the provenance of the mess i.e., showing how it came about.

Chapter Five

The provenance of the mess

Abstract

Faced by environmental destruction, moral degeneracy and the prospect of *involuntary* population reduction, it is necessary to trace the provenance of the mess i.e., show how it came about.

To that end this chapter delves into history by examining the consequences of major paradigms and analysing what happens when they shift. The Ptolemaic paradigm in astronomy is considered followed by an analysis of the ensuing shift i.e., the Copernican Revolution which weakened authoritarian power. There was then the further shift in biology caused by Darwinism (which consolidated the notions of a selfish *Homo economicus* and *Survival of the Fittest*).

So how, in the first place, did we get into this mess? What is its provenance? In what way did it come about?

The questions are necessary because the answers will reveal if humans are inherently incapable of solving their own problems or whether it is possible – just possible – that an understanding of the past may allow some hope of rectifying the problems of the present.

The Ptolemaic paradigm put the Earth at the centre of the universe

In order to find out we have to go back a very long way to a time when, during the day, humans saw the sun going around the Earth and recognised it as the force upon which all life depends. And so there were Egyptian, Indo-European and Meso-American sun cultures with sun gods (who sometimes demanded human sacrifice).

Moreover, thinking about the sun during the day and observing the planets and stars at night, humans concluded that God had put His Special Creation – the Earth – at the centre of the universe. Furthermore, the existence of a Special Creation implied that:-

- the world with its humans, *fauna* and *flora* had almost instantaneously come into existence only a few thousand years ago
- humans are *God's Children* with a right to planetary dominion

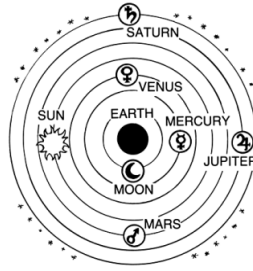
Ancient science then codified the available information into the geocentric (Earth-centred) Ptolemaic system which became the major paradigm (i.e., the societal understanding, or perception, of reality). The Ptolemaic paradigm survived for many centuries even though, as long ago as the third century BCE, Aristarchus of Samos had explained that, rather than being geocentric, the cosmic truth was heliocentric (sun-centred). (Ashford & Shakespeare)

On Planetary Paradigm

Nevertheless, because sun in daily transit across the else, upheld geocentric theory.

Everyday practicality –

Moreover, as an of physical reality, the surprisingly practical. Thus *Polaris* (the North Star) and the *Southern Cross* sufficed for navigation. Indeed, using these stars, the Portuguese Magellan expedition was able to circumnavigate the globe during the years 1519 – 1522.



ordinary people could see the sky, 'common sense', if nothing

circumnavigation

apparently accurate depiction Ptolemaic paradigm was

Divine Right to rule

But, above all, the Ptolemaic paradigm was also very convenient for the rulers who could claim, and did claim, that *they* had been placed into power by God and so had a *Divine Right* to rule. The outcome was that anybody who dared to challenge the *Divine Right* could only be a Satanic demon disrupting God's Creation. Consequently, individual challengers faced the Inquisition, thumbscrew, rack (which ripped bodies apart) and death by fire.

War and Crusades

On the larger scale, moreover, there was war which generally took the form of Crusades waged against Muslims in the Holy Land (Palestine) and Mediterranean. Nevertheless, Crusades could also be waged against Christians. Indeed, during the gruesome Albigensian



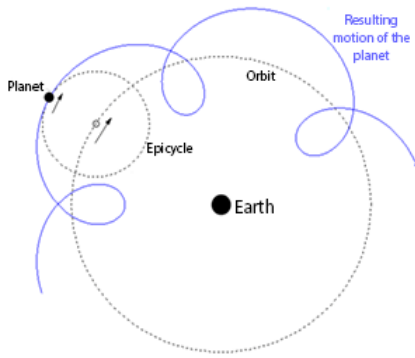
Crusade instigated by the Pope and carried out by the French nobility (1209 – 1229), Christian Cathars in southern France were attacked with genocidal ferocity. Around one million people were slaughtered, hanged, or burned at the stake.

The Ptolemaic paradigm decided everything

Thus the Ptolemaic paradigm essentially decided everything. And even when there was new information – the forward-back, quick-slow movements of the planets as well as the light-dark changes in their illumination – the Ptolemaic paradigm still decided everything. This happened because a paradigm is a mindset and a fixed one at that. Therefore any new information will *always be interpreted in the same way* as the old information had previously been interpreted!

On Planetary Paradigm

'Epicycle' theory



And so, with a heavy inevitability when faced with the new information, the Ptolemaic mindset developed the (false) 'epicycle' theory which said that the planets were moving in little circles whilst, at the same time, spinning around the Earth. This was complete nonsense which failed to take account of the detailed movements of the planets.

Consequences of the Ptolemaic paradigm and *epicycle* theory

The Ptolemaic paradigm and associated *epicycle* theory had huge consequences:-

a) Absolute dominion and authoritarianism

Although the *epicycle* theory was complete nonsense it had the huge advantage (for the rulers) of keeping the Earth at the centre of the universe thereby maintaining the *Divine Right*. Indeed, because the Earth was also viewed as God's Special Creation (brought into existence only recently), rulers gained absolute dominion over other humans.

NB. Furthermore, the dominion extended to men having dominion over women.

Not surprisingly, therefore, with rare exceptions (e.g., the efflorescence of democracy in ancient Greece and the Roman Republic), the prevailing political and societal systems were starkly feudalistic, socially oppressive and authoritarian.

b) War

Moreover, war was a natural, even desirable, consequence of a ruler's power.

c) Political passivity – Special Creation – *Best of all Possible Worlds!*

The Ptolemaic paradigm, furthermore, had a significant long-term consequence – political passivity. This was because the world was understood to be God's Special Creation placed at the centre of the universe and so there was every reason to suppose that fundamental political change was neither possible nor desirable.

Thus, generally, people acquiesced in the existing social and political systems. In fact, the Ptolemaic paradigm essentially inculcated the insidious belief that humans already live in the *Best of All Possible Worlds* and therefore the *status quo* is God's Will with any improvement in society being unthinkable.

d) God's Children – exploitation of natural resources

At the same time, the Ptolemaic paradigm gave God's Children (i.e., humans) an unbridled dominion over the Earth's *fauna*, *flora* and natural resources. That is not to say, of course, that medieval humans were wasteful – everyday life required a husbandry of resources as well as techniques to maintain the fertility of the soil.

On Planetary Paradigm

Nevertheless, in principle, the Ptolemaic paradigm gave God's Children an inherent right to limitless exploitation of the world's agricultural, piscatorial and mineral resources. That meant there was no general sense that the resources should not be exploited to the fullest possible extent, still less that there might be a future need for restraint or prohibition.

e) God's Children – expansion of population levels

Moreover, the warm feeling engendered by *knowing* that humans are God's Children had another consequence – a psychological *certainty* that there should always be the maximum possible number of humans. Consequently, the Bible exhorted humans to go forth and multiply. (Bible)

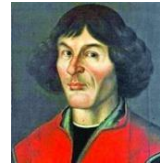
Practical necessity demanded prolific reproduction

Furthermore, the maximum possible number of humans was demanded by practical *necessity* because the harsh reality was often that death from starvation, disease or war made it imperative that human reproduction should always be as prolific as possible.

The first paradigm shift – rulers are dethroned

There then came a shock – the Copernican Revolution. It was a paradigm shift.

As the result of meticulous observation and mathematical calculation, Nicolaus Copernicus had demonstrated that the Earth was speeding around the sun – and not vice versa. (Copernicus, 1543) Thus, if the Earth speeds around the sun, it follows that the Earth is *not* the centre of the universe.



Consequences of the Copernican Revolution

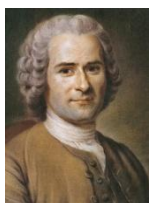
Inevitably, the Copernican Revolution had huge consequences:-

a) The rulers were being dethroned

If the Earth is not the centre of the universe, then the existing rulers were *not* appointed by God. Thus the existing rulers were being dethroned not only from the centre of the universe but also from their ruling positions on Earth. And so began a long political and social process undermining the *Divine Right* and authoritarian power.

b) Ending of political passivity – Age of Enlightenment

The dethroning also meant that, during the 18th century, a new sense of political possibility would be expressed by the *Age of Enlightenment* (or *Age of Reason*). The *Enlightenment* thinkers, particularly French *Philosophes* such as Jean-Jacques Rousseau and Voltaire (both being influenced by John Locke of England), unequivocally attacked the prevailing political and social structure. In particular, they advocated concepts directly *opposite* to the *Divine Right*, namely:-



On Planetary Paradigm

- individualism
- liberty
- natural rights

Soon, in France, a democratic spirit was developing. However, its first practical expression was not to be in France but in America where, in 1776, the American patriots overthrew their British oppressors.

An even bigger democratic expression then came in 1789 with the French Revolution which overthrew the monarchy and aristocratic landowners.

Furthermore, under Napoleon, the French revolutionaries would set out to overthrow *ancien régimes* wherever they could be found and, notwithstanding their military defeat at the Battle of Waterloo in 1815, the French had successfully inflamed democratic yearning with immense implications for the future.

c) Attack on the established Church

It should also be noted that the *Enlightenment* attack, particularly in France, was not only aimed at the monarchy and aristocratic landowners but also at the established Church which supported the monarchy and aristocratic landowners.

But belief in God remained strong

NB. However, although the established Church was attacked, belief in God remained strong and, crucially, was able to provide a moral backing for forwarding social cohesion and progressive purpose e.g., the abolition of slavery and provision of charity for the poor.

d) God's Children retain dominion

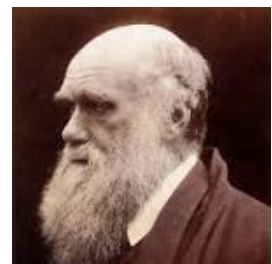
Moreover, as well as belief in God remaining strong, in an important respect the Copernican Revolution did *not* initiate a big change. This was because humans were God's Children and, as such, were entitled to have dominion over the entire planet exploiting it in any way they could. Consequently, forces of an aggressive and rapacious nature were beginning to surface. Encompassing exploratory voyages, economic expansionism, religious proselytising and militarism, these forces were 'opening up' (i.e. taking over) and occupying foreign lands.

e) Population reproduction

Furthermore, maximum population reproduction continued to be advocated as desirable (including being necessary for colonial expansion).

The second paradigm shift – God's Children are dethroned

There then came another shock – Charles Darwin's *On the Origin of Species*, 1859. (Darwin) The book turned the world topsy-turvy profoundly affecting science, society and religion with reverberations continuing to this day. It was a second paradigm shift.



Consequences of Darwinism

Darwinism had enormous consequences:-

a) Plants and animals not instantaneously created but had evolved

Darwin was aware of the work of geologists William Buckland (Buckland, 1836) and Charles Lyell (Lyell, 1833), which was indicating that the world had come into existence *millions* of years ago. He therefore had backing for his discovery that animals and plants had *not* been instantaneously created only a few thousand years previously but, instead, in many different forms, bit by bit, over millions of years, had *evolved*.



b) God's Children are dethroned

But the biggest consequence of Darwinian was that it took away the belief that humans, as God's Children, are a unique part of God's Creation. Instead, *Homo sapiens* became *only one animal species among many* and so God's Children had been effectively dethroned.

c) Aggression and self-centeredness are necessary

Furthermore, Darwinism had a profound (and negative) effect on human psychology. Pointing to the violent struggle for existence experienced by all species, Darwinism viewed life as a continual battle with the survivors being only those whose evolution had given them some form of competitive advantage. In addition, in the battle for existence, Darwinism explained aggression and self-centeredness as necessary. Thus humans are mere animals who, every day, in a hostile world, must fight if they are to survive.

d) Maximum population reproduction

Significantly, Darwinism also saw the battle for existence as so fierce that a species must reproduce itself prolifically if it is to survive at all.

e) Competition for resources – impetus to war

On top of which Darwinism understood all species as being in endless competition for scarce resources not only with other species but also within their own species.

Therefore an impetus to war is unavoidable.

Confirmation as true by Science!

And so Darwinism was painting a grim picture asserting that:-

- *aggression* is necessary
- *self-centeredness* is necessary
- *a lack of concern for others* is inevitable
- *an impetus to war* is unavoidable

On Planetary Paradigm

Furthermore, to cap it all, the picture was the grimmer because the aggression, self-centeredness, lack of concern and impetus to war had not only been explained but had also been confirmed as true (*and sanctified*) by Science!

Homo economicus – Greed is Good

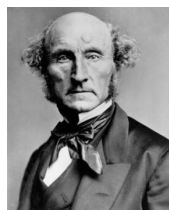
At the same time, the grimness was being intensified by a deep-seated philosophical and moral background particularly in economics. Thus, in the *Wealth of Nations*, Adam Smith had written:-

It is not from the benevolence of the butcher, the brewer, or the baker that we expect our dinner, but from their regard to their own interest. (Smith, 1776)

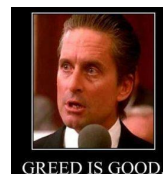
Although (in his *Theory of Moral Sentiments*) Smith had also said that individuals have some sympathy for the well-being of others, he was essentially expressing an individualistic and self-centred view of human nature. (Smith, 1759)

Then, in 1798 (*Essay on the Principle of Population*), Thomas Malthus, manifesting middle-class fear and snobbery, had claimed that lower-class humans have a tendency to endlessly replicate themselves with little intent of becoming educated or even attaining a higher standard of living (Malthus, 1798).

And so the scene was set for John Stuart Mill who (in *Political Economy*, 1836) conceived of *Homo economicus* which describes humans as ‘rational’



meaning ‘narrowly self-interested’ and always pursuing their ends in the most optimal fashion. In short, the concept of *Homo economicus* says that all humans are naturally selfish and greedy but that is no bad thing because, in a phrase, *Greed is Good*.

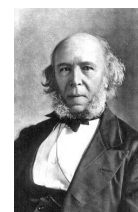


Meaning of life – Survival of the Fittest

Mill was followed by Alfred, Lord Tennyson who wrote of:-

Nature Red in Tooth and Claw. (Tennyson, 1850)

Then, after reading Darwin, Herbert Spenser bluntly summarised the meaning of life with the phrase *Survival of the Fittest*. (Spenser, 1864)



Empires, expansionism and industrialisation

And so Darwin’s scientific work was conflating with the philosophies of Adam Smith; Thomas Malthus; John Stuart Mill; Alfred, Lord Tennyson and Herbert Spenser.

The result was that there had developed a narrow, aggressive and ultimately destructive view of humans and their place on our planet as well as their relationship to other species and resources. The inevitable consequence was an arrogant attitude which coincided with the later stages of imperialism, the expansion of European countries into other continents and industrialisation – all stimulating a race for resources over the entire globe.

Moral justification – White Man’s Burden – and academic codification

On Planetary Paradigm

But let nobody think that the imperialism and expansionism were described and justified as such. On the contrary, they became tastefully clothed in the garb of the *White Man's Burden* i.e., a claimed *moral* duty to help and improve the world. In practice, of course, the so-called moral duty became aggressive colonisation.

Moreover, there was academic codification because mainstream economics, ignoring unhappy actualities, was claiming to be a science of objective reality and perfect equilibrium all of whose outcomes are inevitable, practical – and just!

Summary of Darwinism – *Survival of the Fittest*

In sum, Science, philosophy, economics, literature, colonial expansionism, industrial exigency, religion and militarism had combined to allege a moral and academic justification for violent conquering wherever conquering could be done (with, in particular, environmental issues being viewed as extraneous and of no concern).

Indeed, deep down, in individual and national psyches (and this is the depressing truth which obtains to this day), *almost anything can be justified* because, in essence, everything is all about *Survival of the Fittest*....

The provenance of the mess

Thus the provenance of the mess can be traced as follows:-

i) Over the centuries, the Ptolemaic paradigm and associated epicycle theory resulted in:-

- absolute dominion of rulers; social authoritarianism; and male domination of females
- an impetus to war
- political passivity
- entitlement of God's Children to resources
- entitlement of God's Children to maximum population reproduction

ii) Then, in the first paradigm shift, the Copernican Revolution:-

- dethroned the absolute rulers but maintained male domination of females
- maintained the impetus to war
- ended political passivity
- attacked the established Church (but belief in God remained)
- upheld entitlement of God's Children to resources
- upheld entitlement of God's Children to maximum population reproduction

iii) Whereon, in the second paradigm shift, Darwinism:-

- dethroned God's Children – humans became one species among many
- maintained the impetus to war
- (in the concept of *Homo economicus*) upheld aggression and self-centeredness summarised as *Survival of the Fittest*

On Planetary Paradigm

- confirmed entitlement of humans to global resources
- confirmed entitlement of humans to maximum population reproduction

Today's problem

All of which brings us to today's problem – a world whose intellectual conceptions and daily practices are such that, as things stand, there is not, *and never will be*, any limit to aggression, material expansion and depletion of global resources. Indeed, today's economic, political and social systems depend upon an aggressive material expansion. The evidence for this is seen in today's societies as they push for endless 'economic' growth and recklessly destroy or deplete resources while their governments hypocritically talk of peace as they prepare for, and often conduct, another war.

Future global resource requirement

Unfortunately, there is apparently no solution to the problem because:-

- *Homo economicus* is seen as basic human psychology which cannot be changed
- if the citizens of the world are to have a standard of living equal to that of America today, future global resource consumption would need to be *more than FIVE times* what it is at present. (Statista)

But, even worse, American society today has many poor people and so (if the poor are also to have a reasonable standard of living) the five becomes **SEVEN**. On top of that, the present global population (around eight billion) is predicted to increase to ten billion or more. (Population)

All in all, at the American standard of living and projected population levels, the future global resource requirement will be about **TEN times** the present requirement!

Needless to say, the implications of that (if only in depletion of resources and war for what remains) are horrific.

The key question

All of which results in the key question:-

Is the present situation completely intractable or is there a chance that something can be done?

Chapter Six

The third paradigm shift – A Shared World View

Abstract

Fortunately, the situation is not completely intractable because a third paradigm shift – in economics, politics, psychology and much else – is beginning to happen. It will enable *Homo economicus* to evolve into *Homo co-operans* and so create a Shared World View against which policy decisions can be measured and judged.

Although the situation appears to be intractable, a solution is possible if, in a third (and immensely positive) paradigm shift, *Homo economicus* were to evolve into *Homo co-operans*. And here is the *Good News* – the shift is starting to happen because, firstly, there is an increasing realisation of relation and connection as demonstrated by:-

- sensitive sensor technologies
- massive data collections
- mind-boggling computer achievements and
- trenchant investigative techniques (on both miniscule and cosmic scales)

The inevitable conclusion is that *everything is interconnected*.

Planetarity

Secondly, awareness of interconnection can be summarised as *Planetarity*. *Planetarity* is a world view encompassing all living species as well as non-life forms.

Universal consciousness

Thirdly, *Planetarity* can also be understood as having a backdrop of universal consciousness.

Action to solve two big problems

Moreover, the interconnection, *Planetarity* and universal consciousness are now beginning to manifest themselves in the desire for practical action to provide a solution to two big problems:-

- the world's burgeoning population
- excessive material consumption

Both problems are connected and so can be addressed at the same time

Fortunately, both problems are connected and so can be addressed *at the same time*. In addition, both problems essentially boil down to *one* problem having *one* solution!

Furthermore, at the centre of the solution is the recognition that only when there is a change in the material circumstances of *everybody* in the world will there be a chance for human psychology to change as well....

A Shared World View

In order to promote that change a Shared World View – more beneficial and more comprehensive than anything else – must be created against which all policy and decisions can be measured and judged. Various academic, research, social and political groupings will then want to break with the Old Guard and bring in the New.

And so they will make contact with others elsewhere as explained by Joshua Blake & Nils Gilman (*Children of a Modest Star*, 2024).

Moreover, stimulated by the contact, individual countries will start to look beyond their immediate past history and an outdated conception of their own interests and begin to behave in a more global and futuristic way.

In short, the need is for everybody to acquire a modern, accurate and dynamic understanding of physical reality – a Shared World View – because anything less will only end up propagating more difficulties and divisiveness than before.



Chapter Seven

Tumbledown becomes Planetary Paradigm**Abstract**

The main difficulty in creating a Shared World View is that mainstream thinking is based on 59 factual assumptions about reality all of which are interconnected so that the intellectual structure is rigid. Consequently, when just one of the assumptions is found to be false, the interconnection and rigidity mean that the whole structure begins to crack before it tumbles down revealing a paradigmatic crisis.

Whereon, at first, there appears to be an empty landscape but, deep in the background, true components of the new paradigm (resulting from *reversal* of the false assumptions) are beginning to interact with one another. Then, soon, in the foreground, new plants and animals are starting to spring into existence providing new solutions for previously intractable economic, political and environmental problems.

The main difficulty

The main difficulty in creating a Shared World View is that there are at least 59 false assumptions underpinning the rigid, outdated, intellectual and moral structure of mainstream economics and politics. The purpose of this rigid structure is to maintain the power of the present narrow, self-centred elite. Moreover, the assumptions are *interconnected*. Thus one assumption *cannot* be changed without changing all the others.

The structure tumbles down

But it also follows that (because of the interconnections and the rigidity) when one assumption is found to be false it has the effect of weakening the whole intellectual and moral structure. Therefore, when more assumptions are found to be false, the pontificators get a nasty shock because the structure starts to



crack and crumble before it tumbles down revealing that the world is in paradigmatic crisis. That is astonishing but, at the same time, provides hope to those who have long been acutely aware that something is profoundly wrong.

Excellent News – the *reversals* of false assumptions are found to be true!

Yet even more astonishing is what happens when the individual false assumptions are fairly examined and *reversed*. As that is done – and here comes

On Planetary Paradigm

some Excellent News – it is realised that the *reversals* (i.e., the *opposites*) are true (or, at the very least, truer) and so fresh components (for the new paradigm) become potentially available. Thus everything could be changing.

At first a largely empty landscape

Nevertheless, at first, even though there is realisation that everything could be changing, there is a largely empty landscape.



The landscape is not empty for long, however, because, deep in the background, the fresh components are quietly intertwining with, and latching onto, one another as they search for something with which they are compatible.

Indeed, quite remarkably, the fresh components have a proclivity to latch onto *all* the other components. And so, in the middle ground, there arises a kaleidoscopic changing of colours and patterns creating unusual understandings and insights in markedly original and constructive ways.



The *Planetary Paradigm* manifests itself in new life forms

Then, in the foreground, surprising things start to happen not least the emergence of new life forms. In fact, unfamiliar animals begin entering the landscape and, everywhere, unlikely plants – Can they really be that shape and colour? – are springing up.

As was said by Thomas Kuhn:-

It is rather as if the professional community had been suddenly transported to another planet where familiar objects are seen in a different light and are joined by non-familiar ones as well. (Kuhn)

New solutions, magnificent glory and true life purpose

At which point it will be realized that new solutions for the world's intractable economic, political and environmental problems have appeared. Soon, the *Planetary Paradigm* will have manifested itself in vivid, magnificent glory.... – and many people will also be discovering a new purpose for their lives.

However, before that can happen, global facts need to be addressed and decision made as to whether they constitute evidence of deep and extensive paradigmatic failure.

Chapter Eight

A Town Hall meeting is called – polycrisis

Abstract

A Town Hall meeting is called to address the global facts and see whether they really do constitute evidence of deep and extensive paradigmatic failure. Unfortunately, much evidence demonstrates the failure and, furthermore, that the world is in polycrisis.

Town Hall meeting

In order to address the global facts and also to make it easier to comprehend all aspects involved in achieving a paradigm shift, it is convenient to conceive of a Town Hall meeting at which experts deal with difficult matters while people in the audience are free to speak their minds. In this way, high level subjects can be introduced in an agreeable way while, at the same time, fears and worries can be handled in an open manner.

The meeting opens....*Planetary* mindset

And the meeting opens with the Chair making an explanation of interconnectedness and the sea of consciousness before saying that there is a need to have a *Planetary* mindset.

He then says that only a few people have the mindset and so most have their minds governed by outdated, inaccurate and static assumptions about reality. Moreover, this matters because it is those assumptions which restrict, disfigure and damage our lives while causing many to be mired in despair. However, with the modern, accurate and dynamic *Planetary* mindset people will have a trusted friend and, together, be able to extricate themselves from the mire before striding forth to solve problems and build a better world.

A surprise.... – 59 false assumptions!

At which point the meeting has a surprise when the Chair reveals that the miring is not the result of only a few outdated assumption about reality but rather of 59!

Furthermore, the surprise intensifies upon being told that *ALL* 59 assumptions are false!

Bewilderment – evidence of deep and extensive paradigmatic failure

The surprise then changes into bewilderment when it is explained that the 59 false assumptions are the *cause* of the distortions, depredations, inefficiencies and injustices besetting the world today all of which are evidence of deep and extensive

On Planetary Paradigm

paradigmatic failure. Consequently, as a result of the failure, there is a need for a paradigm shift which must happen if there is to be any hope of ever extricating ourselves from the mire.

Silence....

Whereon there is silence – then a voice mutters that nothing can be changed because people are powerless.

In any case, adds another voice, change on the scale of major paradigm is impossible.

Agreed, says a third.

A cup of tea

Nevertheless, perhaps after a cup of tea, a fourth person remembers that the 18th century French *philosophes* certainly *did* succeed in achieving paradigmatic change. Furthermore, somebody else points to a modern example which, although not achieving large-scale paradigmatic change, at least had political effect – Noam Chomsky's *The Responsibility of Intellectuals* (1967) which greatly helped to stimulate and coalesce opposition to the Vietnam War (1964 – 1975).

And so, feeling a little more positive, the meeting AGREES to begin by examining the present global facts and see whether they really do constitute evidence of deep and extensive paradigmatic failure.

Humans are like fish contaminating their aquarium

Almost immediately, a silver-haired lady puts up her hand and proposes a simile – as a species humans are like fish contaminating the aquarium in which they swim and, unless something is done, disaster is inevitable. Thus we:-

- Commit ecocide by putting plastics into the oceans (and into our bodies); poison the atmosphere; destroy *flora* and *fauna*; and deplete our mineral resources. (Plastics)
- Allow (and, apparently, welcome) preposterous accumulations of wealth which do *not*, and cannot, 'trickle down' to ordinary people. (Piketty, 2013)
- Deforest land, enervate soils and pollute rivers.
- Exclude from the formal economy women and girls who, *every day*, do 12.5 billion hours of 24/7 unpaid caring work without which the human race cannot survive. (Oxfam, 2020)

And we:-

- Fail to remember that **HALF** the world's population exists on less than \$5.50 per day for everything including food, accommodation, travel, medicine and dentistry. Moreover, 860,000,000 people have to try to exist on \$1.90 per day. (Oxfam, 2022)



On Planetary Paradigm

- Ignore parlous water and sewage situations – *ten thousand* people (*five thousand of whom are children*) die *every day* from the effects of dirty water. (Water)
- Insouciantly disregard colossal debt – personal, corporate and national. A Minsky Moment approaches (i.e., when debt becomes un-repayable).
- Are indifferent to the implications of a *quadrillion* (10^{15}) dollar inverted pyramid of derivatives described by Warren Buffet as “financial weapons of mass destruction”.

Moreover, we:-

- Avert our eyes from lamentable homelessness – yet building materials are available. House prices, furthermore, have become unaffordable for ordinary people.
- Understand that the middle classes are being destroyed. In America, for example, real middle class incomes have been relatively going *backwards* for 25 years. The American Dream is becoming a nightmare.
- Embrace super-smart Artificial Intelligence yet are heedless of the dangers.
- Ignore the existence of bio-laboratories developing killer viruses.

And, to cap it all, we:-

- Have an inability to address the technological shift which, instead of good, secure jobs, is resulting in part-time, insecure, zero-hours-contract, ‘gig economy’ jobs which are not really jobs at all. (Standing)
- Are apparently unable to solve the continuing migration from global ‘South’ to ‘North’. This is caused partly by global warming making areas of the globe uninhabitable and partly by ‘globalisation’ which expropriates local resources; puts poor countries into ever-increasing debt; and, in particular, ensures that there are no fair economies for the many (rather than the few).

Having finished speaking, the silver-haired lady returns to her seat.

Then a researcher asks if he can describe the agricultural situation in India which, he feels, has implications for the whole world. The Chair agrees.

Farming without farmers

The researcher states that the global elite is:-

- eliminating small businesses and farms
- using dangerous bio-chemicals and genetically modified organisms
- ending genetic diversity and natural, organic practices
- failing to understand that the soil is a natural ecosystem (Shiva, 2021)

He says that Bill Gates (now the largest private owner of farmland in the USA) wants farming without farmers (by which is meant without the independent farmers who honour, and do not destroy, the soil). (Gates) On top of that, *BlackRock* and *Vanguard* (two mega-corporations) are intent on owning *everything* – forests, rivers, land and seeds. *Natural Asset Companies* (listed on the New York Stock Exchange) are the mechanism for doing so.

On Planetary Paradigm

The Chair thanks the researcher whereon it is UNANIMOUSLY AGREED that there is overwhelming evidence of deep and extensive paradigmatic failure manifesting in polycrisis and so, after some precipitating 'black swan' event, a collapse is inevitable....

It is FURTHER AGREED that, in order to help understanding of the problems in achieving major paradigm shift, a historian will give a presentation on Progressive Innovators.

Chapter Nine

Progressive Innovators**Abstract**

At the next meeting the historian gives an account of the Progressive Innovators who, against all the odds and experiencing great difficulties, eventually succeeded in achieving paradigm shifts in their respective fields of study.

The question then arises as to exactly why they had so much difficulty but – unfortunately – the answer gives no cause for optimism.

At the next meeting, the historian gives her presentation on *Progressive Innovators*. She opens by saying that history has at least thirteen examples of false assumptions about reality founding a major paradigm and so being the basis of powerful social and political structures. The false assumptions are rooted in an academic subject and, at first, cause tension between those in the centre of the subject and those on the edge.

Vicious battles between Conservatives and Progressive Innovators

The tension then increases before erupting into vicious battles. On one side (personifying the centre of the academic subject and representing vested interests), are the *Conservatives* who wish only to maintain the *status quo* and so do not much care about establishing the truth. In particular, they have no desire to benefit others, let alone society as a whole.

On the other side (personifying the *edge* of the subject and *not* representing vested interests), are the *Progressive Innovators*. They are intent on establishing the truth and welcome change. They most certainly *do* desire to benefit others and their desire *does* extend to wanting to benefit society as a whole.

Progressive Innovators present an *opposite* central factual assumption

The viciousness of the battles is evidenced by the lives (and subsequent treatment) of the Progressive Innovators whose names, in addition to those of Copernicus and Galileo, are inscribed in gold within the annals of human achievement. In all cases, the Progressive Innovators realised that **ONE** main factual assumption about reality was central to their academic subject. The assumption, moreover, was false.

Furthermore, they knew that the Conservatives were not taking all the facts into consideration. On top of that, such facts as were being considered by the Conservatives were also being misinterpreted. Above all, the Progressive Innovators were worried by overall explanations that, instead of being elegantly simple, preferred to be convoluted or opaque.

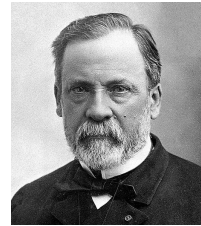
The challenge

They then made their challenge by presenting an **opposite** central assumption which was of much higher quality (as compared to the false one). The **opposite** central assumption:-

- took into consideration **ALL** the known facts
- enabled an accurate interpretation of the facts
- did so without resulting in a convoluted or opaque overall explanation.

The Progressive Innovator challengers

Thus – the historian is listing examples – **Louis Pasteur** demonstrated an **opposite** i.e., that invisible, rather than visible, things are the cause of disease. He was rejected by his contemporaries.



Charles Darwin demonstrated that plants and animals had **not** recently entered the world but, instead, had evolved over millions of years. He, too, was rejected by contemporaries.

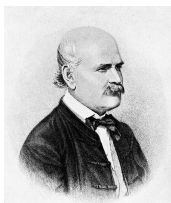


And it was the same with:-

- **Alfred Wegener** (shifting tectonic plates and continental drift). He died despairing that his colleagues would ever see the obvious. (Wegener)



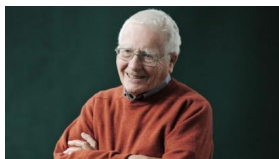
- **Barbara McClintock** ('jumping' genes). Her research was rejected particularly because she was a woman.
- **Ignaz Semmelweis** who thought doctors and nurses should wash their hands – he was put into a mental asylum and probably beaten to death.



- **Cecilia Payne** whose spectrum analysis of the sun was rejected because she was a woman.



- **James**



Lovelock and Lynn Margulis. The

Gaia hypothesis holistically posits that the Earth's living and non-living components interact as a single, self-regulating system that maintains conditions suitable for life.



- **Jane Goodall** (primatology) who showed that chimpanzees make and use tools; have complex emotions; and possess individual personalities thereby undermining the concept of human superiority and exceptionalism.

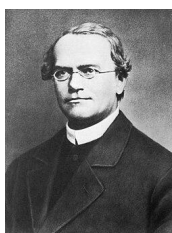
ALL the above Progressive challengers put forward central **opposites** and were rejected – at least at first – by their contemporaries.

Vindication of the Progressive challengers

Nevertheless, without exception, the Conservative upholders of the prevailing major paradigm were eventually proved to be profoundly wrong and their Progressive challengers spectacularly right. Vindication was complete.

The fixed rule of rejection

So why do these battles happen in the first place?



And why is there the fixed rule that **those who dare to challenge the prevailing paradigm must always expect rejection?**

However, sometimes, rather than being rejected, Progressive challengers are simply ignored as was the case with Gregor Mendel (genetics). (Nissani, 1995)

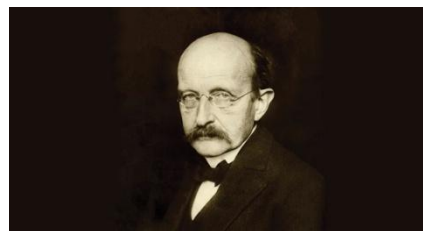
Conservative mindset distorts the facts

The rejection is essentially due to the facts being viewed by a Conservative mindset (or paradigm) which distorts their relationship to one another and which fails to take all the facts into consideration. Charles Darwin succinctly delineated the situation:-

I by no means expect to convince experienced naturalists whose minds are stocked with a multitude of facts all viewed, during a long course of years, from a point of view directly opposite to mine. (Darwin)

And Max Planck, the originator of quantum theory, went even further:-

A new scientific truth does not triumph by convincing opponents and making them see the light, but rather because its opponents gradually die, and a new generation grows up that is familiar with it. (Planck)



Battling on

Darwin and Planck, therefore, are saying that, such the power of the prevailing outdated paradigm, the usual weapons of rationality – facts and rational argument – cannot win.

Instead, the upholders of new, accurate paradigm must battle on, and battle on again, often despairing that the truth will ever prevail....

Notable battlers today include Rupert Sheldrake (whose propositions on universal consciousness, morphic resonance and morphic fields are arbitrarily dismissed as worthless by conventional scientists); physicist, astronomer and Berggruen Essay Prize winner Adam Frank; and Nobel Prize physicist Brian Josephson.

The meeting is then **ADJOURNED** for a week.

Chapter Ten

Length of battles is the biggest problem**Abstract**

The historian explains that the *length* of the battles is the biggest problem and the length is due to blanket hostility, imperviousness to change and an assertion of dominance.

At the next meeting the historian says that the *length* of the battles is the biggest problem in achieving paradigmatic change. Thus the Copernican Revolution started with Nicolaus Copernicus's *On the Revolutions of the Spheres* in 1543 and, in **scientific** terms, embracing later work by Johannes Kepler, culminated with Isaac Newton's *Principia* in 1687. (Newton, 1687) That's 144 years!

Nature and Nature's laws lay hid in night:

God said, "Let Newton be!" and all was light. (Pope, c. 1727)

However, the achievements of the Revolution were also **political** and included the stimulation of – literally – revolution and so encompass the American (1776) and French (1789) Revolutions. That's 246 years!!

Moreover, **religious** acceptance of the Revolution did not come until 1992 when the Catholic Church finally admitted that Galileo was right. That's 449 years!!!

Nevertheless, there were shorter periods for scientific recognition of the work of other Progressive Innovators. In the case of Alfred Wegener it was 50 years after his death before scientific recognition came but largely within the lifetimes of Charles Darwin, Barbara McClintock and Jane Goodall.

The opening situation – blanket hostility and assertion of dominance

In all the above examples – the historian is continuing – the opening situation was one of blanket hostility, imperviousness to change and an assertion of dominance such that the Progressive Innovators could never have expected to succeed. **And that is the situation today** with blanket hostility, imperviousness to change and an assertion of dominance manifesting in a cocky confidence claiming, for example, that a collapse of 'globalisation' is impossible. Indeed, the cocky confidence claims that the 'free market' is always in balance and, if sometimes a little out of kilter, will soon return to equilibrium.

The cocky confidence then further claims that the 'free market' is free and has outcomes which are always just i.e., all people get what they deserve. Yet every sane person knows that, leaving aside environmental matters, the globalised 'free market' is **unbalanced**; **inefficient**; **unfree** (most people cannot acquire productive capital); and **unjust** – most people do *not* get what they deserve....

Where does the cocky confidence come from?

So where does the cocky confidence come from? It comes (the historian is emphatic) from a profound belief that mainstream thinking is based upon accurate assumptions about factual reality – and nothing else.

Indeed, mainstream propagandists, academics, politicians and globalists are bumpuously *certain* that their assumptions about reality are sound and reasonable. As a consequence, they are convinced that the economic, political, social and environmental outcomes of their assumptions will also be sound and reasonable – as well as, in their view, desirable.

In fact, it never occurs to them that their assumptions – far from being sound and reasonable – are patently *unsound* and *unreasonable* with outcomes that are *undesirable* so that society is mired in profoundly outdated paradigm and its negative consequences.

Best of All Possible Worlds

To be sure (the historian adds) a complacent, arrogant mainstream thinks – much like Pangloss, the preposterous, foppish Optimist Philosopher in Voltaire's *Candide* – that its assumptions about reality automatically result in the *Best of All Possible Worlds!* (Voltaire, 1759)



However, most people instinctively sense that, at the very least, the mainstream propagandists are being over-confident and, moreover, are ignoring the possibility that, far from being sound and reasonable, their assumptions are *unsound* and *unreasonable*. To the cocky confidence of the propagandists and globalists, therefore, people react with dismay.

Dismay cannot last forever

But dismay cannot last forever and so they begin to wonder whether there might be a new thinking which is clearly based upon sound and reasonable assumptions about reality and which *does* have desirable outcomes. And yes (promises the historian as she ends her presentation), there is.

The meeting THANKS the historian for her great knowledge of, and insights about, the Progressive Innovators.

Chapter Eleven

The research of Rogers Hollingsworth and colleagues

Abstract

New thinking and paradigm shifts are never easily achieved and, to forward the thinking and help the process of making the shift, it is necessary to learn of the remarkable historical and sociological research done by Rogers Hollingsworth and colleagues which identified the three factors that must be in place before a shift can occur.

At the next meeting the Chair opens by saying that new thinking and paradigm shifts are never easily achieved and so, before continuing the quest, it is necessary to refer to Thomas Kuhn's *The Structure of Scientific Revolutions* which is the seminal work on paradigm and paradigm shift. (Kuhn, 1962)



In particular, Kuhn explained that a new paradigm *cannot* come into existence by using the vocabulary and concepts of the old one because old and new are *incompatible* i.e., *it is impossible to understand the new in terms (vocabulary and concepts) of the old.*

Forty years before explanation for paradigm shift



Unfortunately, while Kuhn comprehensively described paradigm, he did not also explain the factors necessary for bringing about a paradigm shift. It was then to be 40 years before the explanation was brought to light by the remarkable historical research done by Rogers Hollingsworth and colleagues. Commissioned by the USA government at a high cost (and discussed with this author at a Conference in 2000), the research encompassed all of history and a very large number of academic subjects.

The three factors in paradigm shift

Crucially, the research discovered that *three* factors must be in place before a paradigm shift can occur. The three factors are part of a process operating over time. Moreover, the historical evidence is that the process:-

- has many aspects, huge scale and complexity
- generally involves only a few people (although sometimes more)
- rarely moves in a straight line

On Planetary Paradigm

- has surprises as when somebody realises, or gets near, the truth but, for some reason – accidental or deliberate – the truth remains occluded or blocked.

The Chair pauses and, for a few minutes (wondering at the difficulties in achieving a paradigm shift), members remain silent....

First Factor – conservative knowledge

The Chair then resumes by saying that the first factor is obvious. It is:-

Widespread conservative knowledge and understanding of the main academic subject together with its factual assumptions about reality

An example is astronomy and the Ptolemaic geocentric paradigm which existed for many centuries and ensured that, although there were sometimes democratic outbursts, the balance of political and social power would always revert to authoritarianism.

Second Factor – tension with Progressives

The second factor is less obvious. It is:-

The tension which arises between Conservative and Progressive practitioners of the academic subject

In the case of the Ptolemaic paradigm, the tension arose as a result of meticulous observations showing the movements and illumination changes of the planets all of which were then subjected to sophisticated mathematical analysis. The analysis – this was the scientific method at work – was revealing that something was badly wrong with the traditional understanding of the Earth as having been placed at the centre of the universe.

The Ptolemaic Earth stayed at the centre of the universe – ‘epicycle’ theory!

However, the Conservatives chose to (falsely) interpret the observations as revealing that the planets spin in little circles or ‘epicycles’ whilst also going around the Earth. Thus the Conservatives, despite having to rely on the convoluted ‘epicycle’ theory, could still claim that the Earth is at the centre of the universe! In this way – for hundreds of years – the existing authoritarian political and social structures were able to maintain their power.

Demolition of Ptolemaic paradigm and overthrow of political and social structures

Nevertheless, the Progressives *did* eventually succeed in establishing factual realities directly *opposite* to those contained in the Ptolemaic paradigm and the associated ‘epicycle’ theory. And so both Ptolemaic paradigm and ‘epicycle’ theory were to be demolished by the Copernican Revolution with long term consequences

going far beyond scientific analysis to the overthrow of powerful political and social structures.

Lessons for us today

The story of the Ptolemaic paradigm and the associated 'epicycle' theory has lessons for us today. Firstly, we are in a situation similar to the one existing at the time of Copernicus and Galileo in that the prevailing false paradigm is the intellectual and moral basis of a social, economic and political power structure with beneficiaries – the global elite – who rule the world.

Secondly, *just as* (at the time of Copernicus and Galileo) there was extensive social and economic failure, for example:-

- rich-poor division
- massive poverty
- destruction of *fauna* and *flora*
- high levels of debt

so *there* is similar failure today.

Thirdly – the Chair is continuing – there is tension today because Progressives who dare to doubt the worth of the mainstream paradigm are reviled and derided as trouble-makers, weirdoes, fantasists, screwballs, socialists, communists, nutcases – or even terrorists.

Moreover, censorship is building and courageous truth-sayers are being punished. Indeed, the censorship of so-called 'misinformation' has already begun. Even responsible websites are being falsely accused and then shut down. Individuals are being criminalised. Julian Assange, for example, was persecuted for revealing a terrible war crime and genocide today is being tolerated and, by some, supported.

Even worse – totalitarianism is in prospect

Even worse – if that is possible, adds the Chair – it is likely that governments, on behalf of the global elite, will soon be taking absolute control over ordinary people via Central Bank Digital Currency i.e., computer money. This will have 'social controls' enabling stringent monitoring of all bank accounts. Individual items – income in and expenditure out – will then be partially, or totally, blocked. Totalitarianism is in prospect.

Third Factor – some force of opposite mindset

So what is the third factor? the Chair asks.

Unfortunately, the third factor is far from obvious. Yet, at the same time, it can be clearly defined as:-

Some force of opposite mindset, powerfully present, coming from outside the academic subject and acting on the progressive thinking at the edge so as to create the new paradigm

But what 'force of opposite mindset'? What is meant by 'powerfully present' and how can any idea come 'from outside'? After all, ideas arise inside people's heads!

Components of the third factor

In order to understand the third factor it is helpful to split it into four components:-

a) 'some force of opposite mindset'

A 'force of opposite mindset' is a challenging state of mind determined to:-

- meticulously examine the facts
- correctly identify their meaning
- do so (if justified by the facts) in complete opposition to mainstream thinking

However, in the geocentric paradigm, *God had appointed the world's rulers* and so the new heliocentric paradigm was a direct challenge to autocratic regimes! Therefore the 'force of opposite mindset' can only be:-



A radical willingness to challenge everything about an academic subject even though imprisonment, torture and death by fire are the penalties

This radical willingness imbues Progressive Innovators as well as giants such as Jean-Jacques Rousseau (Rousseau, 1762), Voltaire and Tom Paine who have a towering sense of moral and political responsibility. Thus, aware of the need to make a radical challenge, Berggruen Essay Prize winner Pamela Swanigan says it's time to "get heroic". (Swanigan)

b) 'powerfully present'

The second component is that the 'force of opposite mindset' must be 'powerfully present' i.e., not only powerful in itself, but supported by powerful institutions and groups. Unfortunately, support is almost impossible to obtain because the existing powerful institutions and groups are *always* the vested interests which are buttressed by:-

- most universities
- most think tanks
- the Central Intelligence Agency (or similar)
- the mainstream media
- political parties

All of these institutions and groups exercise influence and, consciously or unconsciously, are bent on perpetrating and perpetuating a false (and profoundly reductionist) conception of physical reality.

Foundational *raison d'être* of intellectuals – speaking the truth

On Planetary Paradigm

Such their benighted obduracy and to their eternal shame, *none* of these institutions and groups has any conception of duty to others, nor duty to our world. Indeed, they all betray the foundational *raison d'être* of intellectuals which is to speak the truth and to expose lies. Moreover, they seem never to have heard of Noam Chomsky, still less of Julien Benda (*La Trahison des Clercs*, 1927).

Put differently, globalised society is permeated, manipulated, deceived, corrupted and coerced by sociopathic institutions and groups which do *not* declare the forces they represent and smugly claim that they know better than everybody else.

Gadarene swine

In fact – putting it bluntly – the institutions and groups are much like a herd of (Biblical) Gadarene swine which embodies evil but is not yet ready to drown itself in the sea.

c) 'coming from outside'

The Chair continues by saying that the requirement to come 'from outside' is the most difficult of the components to understand because, on the face of it, a new paradigm *cannot* come from anywhere in the existing world. This situation arises because **ALL** existing institutions (and the society in which they are embedded) are manifestations of outdated, inaccurate and static conceptions of reality. Consequently, because they are **ALL** based upon similar (false) assumptions, **ALL** present economics and politics exist somewhere on a left-right linear spectrum:-



Indeed, even 'Green' economics is based on false assumptions. For example, 'Green' economics generally assumes that human labour (rather than planetary capital instruments and the bounty of nature) does most, if not all, of the work in producing output. In short, any new paradigm will be *outside and beyond* the linear spectrum and consequently cannot be understood by anybody using the old vocabulary and concepts.

d) 'progressive thinking at the edge'

It will now be clear that, in itself, progressive thinking (at the edge of an academic subject) will not suffice to achieve a paradigm shift *unless*, at the same time, it is associated with an opposite mindset which is stoutly courageous, powerfully present and fundamentally different from existing thinking. It is a tall order, the Chair says, because the requirement is for an unusual combination of high originality, clear-minded realism and endless determination to overcome apparently insurmountable obstacles.

A neatly dressed man looks worried

At which point in the meeting, a neatly dressed man raises his hand, looking worried.

On Planetary Paradigm

“I’m an ordinary chap,” he says. “How can I be expected to understand this paradigm stuff?”

No problem – just be receptive to re-consideration of basic assumptions

“There’s no problem,” the Chair replies. “You do not need to be a top scientist (like the Progressive Innovators) nor a moral and political giant.” Indeed, the Chair goes on to explain, any reasonably well-motivated and knowledgeable person can understand because *they need only be receptive to re-considering some of their basic assumptions about life on our planet.*

At first, upon making the re-consideration, a person’s basic assumptions will *appear* to be sensible, even true. However, a BIG surprise comes when the *opposites* of the assumptions are considered and the *opposites* are realised to be *not only vastly superior but also undoubtedly true....!*

Very soon, receptive minds will be imbued with the new paradigm and, once it is understood, there is no turning back....Indeed, Galileo put the matter precisely:-

All truths are easy to understand once they are discovered: the point is to discover them. (Galileo, 1632)

Amazing suddenness – apples can fall....Archimedes jumps from his bath....

Moreover, new truths can appear with amazing suddenness – as when Isaac Newton was (allegedly) hit on the head by a falling apple or Archimedes jumped from his bath!

In pursuance of the truth – and in the hope of being hit by an apple – the Chair says that it is now time to describe the false assumptions of mainstream thinking together with their true reversals (or opposites). We will then be well on the way to having a ‘light bulb’ (or apple-hitting) moment and so be able to follow up on the advice of inventor, philosopher and futurist Buckminster Fuller:-

In order to change an existing paradigm you do not struggle to try and change the problematic model. You create a new model and make the old one obsolete. (Fuller, 1968)

The meeting is then ADJOURNED.

Chapter Twelve

First (false) mainstream assumption**Abstract**

Although the false mainstream assumptions about reality are interconnected *in a net*, one particular assumption is the best place to start because it is easily the most pernicious of all the false assumptions. It relates to who or what creates the output of goods and services and has not been an accurate representation of physical reality since the start of the Industrial Revolution (around 1750).

A week later the Chair announces that it is time to examine in more detail the first of the 59 false mainstream assumptions about reality which underlie today's prevailing major paradigm. He says that he is pleased to introduce a binary economist who, it will be seen, is not the same as a conventional economist.

The binary economist then states that, rather than taking a linear form (with one following on from another), the 59 assumptions are interconnected *in a net* so that there are many points from which a start can be made. That said, it is convenient to begin with one particular assumption because it is easily the most pernicious of all the false assumptions.

i) First (false) assumption – that human labour creates all the output of goods and services

In economics (explains the binary economist) the most fundamental question of all is:- *In a task producing goods or services, who or what contributes to output?*

Whereon mainstream economics gives its (false) answer:-

(False) *In a task producing goods or services, the human labour contribution to output is 100% i.e., humans do it all.*

The answer derives from several sources including religious texts, David Ricardo and Karl Marx – the Labour Theory of Value and 'congealed' labour theory. However, it is famously (or infamously) set out in an outdated and obfuscatory tome – *The Wealth of Nations* (Adam Smith, 1776). The tome opens with this sentence:-

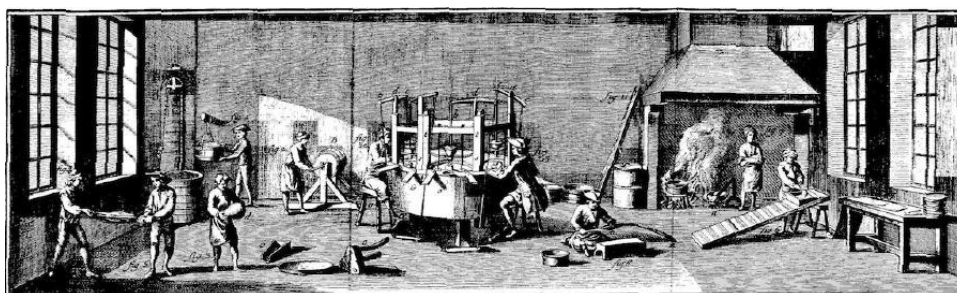
The annual labour of every nation is the fund which originally supplies it with all the necessaries and conveniences of life which it annually consumes, and which consist always either in the immediate produce of that labour, or in what is purchased with that produce from other nations.

The sentence speaks of human labour at a time when it undoubtedly contributed to output (or rather, *appeared* to contribute to output). Moreover, the apparent contribution was usually arduous and, in particular, the Protestant religion

On Planetary Paradigm

emphasized the importance of hard, physical work as a virtuous path to Heaven. (Tawney, 1926)

Furthermore, when Smith visited a pin factory (or had read Diderot's French *Encyclopédie* description of a pin factory) he observed that there, too, human labour (using only tools and small machinery) did the work. Indeed, the processes involved were essentially specialized *hand* processes e.g., extruding the wire; snipping and filing – eighteen operations in all. The pin factory, therefore, was efficiently producing pins because of narrowly specialised *hand* workers who were gathered in one place, easily bossed around and employed during set, regular hours. *No big machinery was involved!*

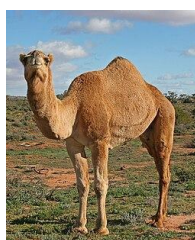
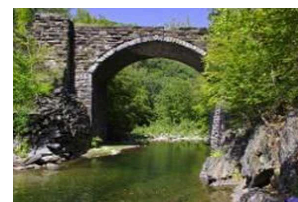


Smith had got things badly wrong!

Yet in Smith's time there *already* existed many highly productive planetary capital instruments providing goods and services e.g.:-



- windmills (invented over one thousand years ago in Iran); watermills (invented by the ancient Greeks); and keystone bridges *all operating by themselves*



- pack-horses, donkeys and camels carrying loads *largely by themselves*
- ploughs, wagons, lifting equipment, olive oil presses, ships and brick kilns *all doing a lot of work* (but also requiring some human – or animal – input)



Bounty of nature – natural productiveness

NB. Moreover, Smith was also not taking account of the bounty of nature (i.e., natural productiveness) which supplies us with fruit, fish, animals, plants, materials, water and minerals. A hunter-gatherer makes physical effort and exhibits considerable skill, but the hunted animal, gathered fruit or netted fish is largely the product of the bounty of nature i.e., natural productiveness.

Smith had therefore got things badly wrong because, in relation to the total output of a task, the percentage input contribution of the planetary capital instruments was **INcreasing** while that of the human labour was **DEcreasing**.

Today, furthermore, Smith's error is the greater because of:-

- the growth in Artificial Intelligence; the development of quantum computers; the arrival of the 4th Industrial Revolution; and bio-engineering
- IoT (the *Internet of Things*) – 22 billion devices already ‘talk’ to each other
- drones, voice technology, virtual assistants, payment systems, translation software
- huge technological advances in manufacturing industry, agriculture, transportation, information and communications – with possible ‘free’ energy devices to come

ALL these things massively increase the total output with the planetary capital instruments doing *an ever-increasing percentage* of the output.

However, to be fair to Smith, a close reading of his book indicates that he was becoming aware of the productive power of machinery. It is thus unfortunate that he did not live a few years later, in 1803, when the Frenchman JB Say most certainly *did* understand the productive power of machinery and he castigated Smith for getting things badly wrong. (Say, 1803)

The Big Problem – productivity concept

Members are very interested to learn that JB Say had castigated Smith and want to know how Smith’s error manifests itself today.

It essentially manifests itself in the Big Problem (responds the binary economist) and by Big Problem is meant the mainstream concept, definition and calculation of productivity. The binary economist then describes the productivity concept as being completely out of touch with reality and, moreover, it has been out of touch since the start of the Industrial Revolution (around 1750).

He goes on to say that mainstream economics generally defines productivity as total production output ***divided by*** total labour input. Thus productivity is calculated by:-

$$\frac{\text{production output}}{\text{labour input}}$$

NB. This (falsely) claims that **ALL** the output is done by human labour input!

And so, as the production output increases (or the labour input decreases), the productivity figure can only increase. Indeed, any shift upwards in production output, or shift downwards in labour input, has the consequence of increasing the productivity figure.

Then, as the amount of automation increases (particularly as the number of workers approaches nought), so the productivity figure starts to become weird. Indeed, ‘fantastical’ is a better word because it rises at an impossible rate – to 10, 100, even 1,000,000 or more....!

Whereon, (when there are no workers but only automation) the productivity figure ***reaches infinity while, at the same time, it suddenly collapses to nought!***

Infinity and nought at the same time! This is ridiculous! It is impossible for the productivity figure to rise to infinity while, at the same time, it has suddenly collapsed to nought.

In short, the mainstream concept of productivity is false, contradictory and completely out of touch with reality..

The solution – productiveness concept and analysis

The binary economist continues by explaining that the new paradigm concept and analysis of *productiveness* provides a realistic solution and that the essence of the coming paradigm shift is just a simple understanding that *wealth-creating capacity is increasing because of technological advance*. A small, but impressive, work of art entitled *Paradigm shift* by Ian Bride (2024) summarizes the matter.

Indeed, the truth today – the binary economist is reaching his conclusion – is that, in a task, as a percentage of the contribution to output, human labour:-

- *sometimes* does **ALL** the work in creating the output i.e., *labour does 100%*.
- *sometimes* does **A PERCENTAGE of the work**, ranging from large to small, with the rest being done by the planetary capital instruments i.e., *labour does anywhere between 99% and 1%*.
- *sometimes* does **NONE of the work** with everything being done by the planetary capital instruments i.e., *labour does 0%* (as in an automated factory).

Back where it belongs – on the bookshelf

Therefore, even though Smith was beginning to understand what was happening in his lifetime, he was fundamentally wrong about who or what really does create the output today.

And so it is time to put *The Wealth of Nations* back where it belongs – on the bookshelf.

Intellectual and philosophical foundation of Communism

As the meeting ends the binary economist speaks about Communism. He says that the false assumption that human labour creates all the output of goods and services is the intellectual and philosophical foundation of Communism. Unfortunately, it leads to the government (allegedly representing the workers and allegedly apportioning income fairly) owning and controlling everything. The overall result is inefficiency, a low standard of living and power-abusing governmental structures. Communism certainly (and rightly) trumpets a call for justice but, because of being based upon a false assumption about reality, it is eventually doomed to fail.

The meeting is ADJOURNED for a week.

Chapter Thirteen

Second, third and fourth (false) mainstream assumptions**Abstract**

At the next meeting the binary economist addresses the second, third and fourth mainstream assumptions about reality all of which are false. They relate to:-

- the true cause of persistent poverty
- the belief that there will always be jobs sufficient in both quantity and quality
- the belief that wealth ‘trickles down’ from rich to poor

ii) Second (false) assumption – that persistent global poverty is the result of unwillingness to work

The binary economist opens by saying that Smith’s error (magnified many times today), has a disastrous consequence because it allows mainstream thinking to make an outrageous explanation for persistent global poverty which completely obfuscates the true cause. The explanation says that the destitution of *half* the world’s population (living on under \$5.50 per day) is because people are unwilling to work, or do not work hard enough, and/or are unwilling to become trained and educated.

But global poverty is *not* the result of an unwillingness to work. Rather it results from people being denied access to what really *does* create the goods and services i.e., *the planetary capital instruments and the bounty of nature*.

The true cause of persistent global poverty today

Thus the true cause of persistent global poverty today is:-

(In addition to lack of good, secure jobs), a lack of ownership of, and access to, that which:-

- really does create the wealth (i.e., technological and natural productiveness as embodied in planetary capital instruments)
- finances the acquisition of technological and natural productiveness (i.e., low cost capital credit)
- legally consolidates technological and natural productiveness (i.e., capital ownership)
together with
- the burden of compound interest
- a thoroughly outdated understanding of economic reality

Consequently, if there is to be the elimination of poverty, there must be widespread ownership of productive planetary capital instruments. However, this cannot happen while an untruth – that human labour creates all the output – prevails! Unfortunately, the mainstream media, academics and politicians, always acting as

gatekeepers protecting the estates of the elite, continue to propagate the untruth because it disguises the percentage contribution to output of the planetary capital instruments thereby justifying their narrow, instead of wide, ownership.

iii) Third (false) assumption – that there will always be sufficient jobs

The binary economist then states that mainstream propaganda claims that there will always be sufficient jobs. Yet that is untrue – although there will always be some jobs and some good jobs, *sufficient jobs (in quantity and quality) for most people will NOT exist*. The binary economist develops his theme by explaining that the economic forecasts are for diminishing employment and he reminds the meeting of Yuval Noah Harari saying that, in future, the vast majority of the population will *not* be needed:-

We just don't need the vast majority of the population because the future is about developing more and more sophisticated technology, like artificial intelligence and bioengineering.

Horrendous implication of 'useless people'

Thus, with hubris and arrogance, the *World Economic Forum* is saying that, because of having no productive function, most of humanity will have become, in the unfortunate little phrase uttered by Yuval Noah Harari, 'useless people'.

The phrase has a horrendous implication – that only those who are productive (i.e., the rich) have a right to exist while the unproductive majority does not.

Yes, dear reader, you *did* understand that correctly.... And so there is the terrifying prospect of a fascism bent on **IN**voluntary population reduction.

iv) Fourth (false) assumption – that wealth 'trickles down' from rich to poor

The binary economist now sets out the fourth false assumption which is that wealth 'trickles down' from rich to poor. However, he says bluntly, 'trickle down' does *not, and cannot*, happen because the rich *never* spend all their money. Moreover, it is impossible for them to do so since their wealth increases *faster* than they can spend it.

Thus the world's richest 1% has more than double the wealth of 6.9 billion of the world's population and the twenty two richest men have more wealth than all the women in Africa (Oxfam, 2020). And billionaires increased their wealth as much in the last two years as normally happens in twenty three! (Oxfam, 2018)

'Channelling' Ayn Rand

Unfortunately – the binary economist is coming to the end of his presentation – mainstream thinking worships billionaires and, in a way which may fascinate students of the after-life, is now apparently 'channelling' Ayn Rand and the extreme wealth differences she espoused in *Atlas Shrugged* (1957)!

Whereon the Chair observes that Ayn Rand is indeed a main source of today's hubristic selfishness and he thanks the binary economist for giving an easily understood account of basic economic matters.

The meeting is ADJOURNED for a week.

Chapter Fourteen

Fifth (false) assumption – banks lend existing money



Abstract

The next meeting relates to the creation of money. Members are surprised to learn that today's bank money is *not* existing money but rather money *created out of nothing* by pressing computer buttons. Moreover, the money is then *not* put into spreading the real economy to everybody.



A week later, a grizzled accountant is invited to speak.

v) Fifth (false) assumption – that banks lend existing money

The accountant opens by saying that mainstream propaganda cultivates the pernicious belief that the banks lend existing money. However, the banks do NOT lend existing money – today's bank money is created *out of nothing* by the pressing of computer buttons!

Mervyn King, former Governor of the Bank of England, said:-

When banks extend loans to their customers, they create money by crediting their customers' accounts. The usual role of a central bank is to limit this rate of money creation, so that an excessive expansion of money spending does not lead to inflation. (Bank)

Yet propaganda still leads people to **believe** that lent money is a real thing (such as silver or gold) although it is not.

Moreover, nobody's private money – not yours, not even the bank's – is being lent. *NEW* money is created (in electronic form which, if desired, is convertible into paper money and coins). In a process known as *fractional reserve banking*, depositors' and bank capital money act as a reserve and the newly-created money is **many times** the reserve amount. The button-pressing process of creating the new money is admitted by the Bank of England which says:-

In the modern economy, most money takes the form of bank deposits. But how those bank deposits are created is often

On Planetary Paradigm

misunderstood: the principal way is through commercial banks making loans. Whenever a bank makes a loan, it simultaneously creates a matching deposit in the borrower's bank account, thereby creating new money.

The reality of how money is created today differs from the description found in some economics textbooks – Rather than banks receiving deposits when households save and then lending them out, bank lending creates deposits. (McLeay et al, 2014)

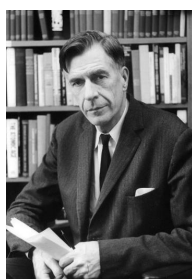
Furthermore, the Federal Reserve Bank of Chicago states:-

The actual process of money creation takes place primarily in banks.
(Federal)

Nothing could be clearer – by pressing computer buttons the banks *create* the money that they lend and the economics textbooks tell untruths! In the UK, for example, 95% or more of new money is created by the banking system (the other 5% or less is created by the government). Moreover, the great industrialist Henry Ford said:-

It is perhaps well enough that the people of the nation do not know or understand our banking and monetary system, for if they did I believe there would be a revolution before tomorrow morning.

Furthermore, the famous American economist J.K. Galbraith wrote:-



The process by which banks create money is so simple that the mind is repelled.... It is, moreover, one that is almost breathtaking in its audacity. (Galbraith, 1975)

The quotation is significant because J.K. Galbraith, perhaps the world's greatest economist, was never awarded a Nobel Prize. The reason is that he blazoned the truth – that the banking system, by creating money for itself, is usurping *society's* right to create money – and, consequently, the Western power structure never forgave him.

Getting away with counterfeiting

So how is it that the banks are able to do what is essentially counterfeiting usually punishable by long prison sentences? How is it that the banking system is able to misappropriate *society's* money supply for its own narrow, elitist purposes?

False claim that bank money is directed at the needs of the real economy

The answer, firstly, is that the public is not generally aware that the banking system creates lent money out of nothing.

Secondly, mainstream propaganda *claims* that the purposes of the economy are being properly served because the (created-out-of-nothing) lent money is being directed at productive capacity (it *claims*) in an efficient and just way which produces growth from which all fairly benefit. That is the *claim*. So, according to mainstream

On Planetary Paradigm

propaganda, bank money (created out of nothing with interest added – all for the benefit of its creator) is the magic element in the (*claimed*) successful operation of the ‘free market’ i.e., the *claim* is that the new money is directed at, and serving, the needs of the real economy, efficiency and justice.

Yet today’s bank money does **not** serve the needs of the real economy. In fact, the *claim* of efficiently allocating resources is untrue – only 2% or less of the money supply goes into new productive capacity. (Korten, 2001; Lietaer, 2001) Indeed, today’s banking system instead allocates money to:-

- the gargantuan casino of derivatives amounting to a *quadrillion* dollars
- speculative trading of currencies now dominating world money exchanges (Meera & Larbini, 2004)
- the bidding up of the price of existing assets (e.g., stocks, shares, houses)
- the *narrowing* of ownership
- consumer credit (which *lessens* the capacity of borrowers to consume)
- putting individuals, companies and societies into un-repayable debt

Thus greed has overtaken common sense and the situation is madness.

And remember, emphasises the accountant, *unless productive power is widely spread, there can never be a true balance of supply and demand*. Indeed, when there is no spreading, the rich get richer and everybody else gets relatively poorer and more insecure.

Total debt becomes un-repayable

Furthermore, the accountant adds, the present system creates enough money to enable repayment of the principal (of a loan) but does **NOT** create enough money to enable repayment of the interest. (el-Diwany, 2003) Consequently, all the time, in order to maintain the money supply, *more and more debt must be created*.

Eventually, the total debt becomes *un-repayable* – which is the situation today and so a global crash portends.

The meeting ends with the Chair thanking the accountant and inviting him to deal more fully with interest at the next meeting.

Chapter Fifteen

Sixth (false) assumption – interest is necessary**Abstract**

The accountant explains that interest (in Islam, *Riba*) is put *on top* of necessary administrative cost and that it compounds in such a way that debt becomes un-repayable.

Moreover, because of compound interest, badly needed infrastructure projects (e.g., clean energy, good water, housing etc.) can never be built and many people commit suicide.

i) Sixth (false) assumption – that interest is necessary

At the next meeting the accountant deals with interest. Interest is a blight on the world, he says. For example, in the city of Aachen, Germany, interest is 12% of rubbish collection cost; 38% of drinking water; 47% of sewage; and 77% of public housing. Furthermore, over the period 1950 -1989, German GDP increased twenty two times, but interest on the National Debt increased *seventy five* times! (Kennedy, 1995)



Indeed, it has been said that *one third* of the price of *all* goods and services relates to borrowing at interest. Generally, interest causes 80% of the people to pay out more than they receive; 10% are in balance; and 10% receive more than they pay out.

Compound interest

Because of interest the cost of capital projects is *doubled, trebled, even quadrupled or more* particularly when the interest is compounded.

Compound interest is extra interest added *on top* of interest. It arises when there is delay in repaying the principal of a loan (e.g., when a big capital project takes years to build); or there is delay in repaying interest; or if the borrower is remiss in fulfilling a term of the agreement.

Good water and clean electricity prevented

Not only are good water and sewage systems prevented by compound interest but so is clean electricity. In the UK one project alone – tidal lagoons in the Severn estuary – would generate 5-10% of the UK's electricity needs. Existing technology would be used and the project has a long life and excellent physical viability. Yet, because interest-bearing, rather than interest-free, money would be

used, the project is not financially viable. (Indeed, citing a need for 'austerity', the government cancelled the project.)

The UK Humber Bridge.



Consider the UK Humber Bridge. Starting at £28,000,000, compound interest (with some price rises) took the cost to £439,000,000. That's *fifteen times* higher! Yet the Bridge is profitable! Indeed, every year, its operating costs – repair, maintenance and salaries – are

less than the fees received from travellers crossing the Bridge!

NB. The ever-rising cost was too much for the Humberside residents and so the UK government was forced to take over responsibility for repayment (as part of the National Debt). (Humber Bridge)

In short, compound interest:-

- puts the world into ever-increasing debt
- prevents clean water and green electricity
- greatly increases the cost of capital projects. (el-Diwany, 2003)

Social consequences of compound interest – 200,000 farmers commit suicide

In India, between 1997 and 2010, compound interest caused 200,000 farmers to commit suicide. That's *15,000 per year*.

To get out of debt, many farmers have to sell one of their kidneys. (Rupe, 2010)

Is interest necessary?

Is interest necessary?

NO! Fair administration cost (well under 1%) is necessary as also is the repayment of the principal (i.e., the original borrowed sum) and sometimes, when there is no collateral, a sum for capital credit insurance.

However, generally, interest is **NOT** necessary because it is put **ON TOP** of administration cost and attaches itself to a debt thereby creating **additional** recurring charges in a way which is completely distinct from administration cost.

Conflation disguises the interest

Bankers also claim that interest is necessary because they are able to conflate (i.e., mix together) the interest with necessary administration cost, principal repayments (and sometimes a sum for capital insurance) so that they *cannot be distinguished from one another*. In this way the interest is disguised.

Outrageous

Today, when money is created out of nothing, it is outrageous that interest is unnecessarily added. Of course, if people are lending *their own* money, then they can, and will, charge interest. After all, they have the whip hand saying, "If you want the money it's on my terms, not yours."

But it must be *their own* money (or, in the case of banks, with permission, their customers' money) and NOT money created out of nothing by pressing computer buttons. When money is created in this way, the banks are using – and abusing – *society's* power to create money to benefit themselves.

All interest is usurious

Moreover, mainstream propagandists (and the law courts) uphold the imposition of interest by claiming to distinguish between 'fair' interest and 'usurious' (or excessive) interest. Indeed, the West defines usury only as 'excessive, unreasonable, unfair interest'. But *any* level of interest, particularly when compounded, still allows inordinate transfers of wealth to the lender for no reason other than that the lender has the whip hand and can decide the terms of the lending.

Consequently, there is no true distinction between 'fair' and 'usurious' because *ALL* interest (and not just excessive interest) is usurious. Of course, the usury is cunningly disguised in various ways (e.g., by lumping in the interest with the administration cost) but, no matter how disguised, interest, in reality, is a continuing charge (or 'tax') *in addition* to necessary administration cost and the need to repay the principal of the original loan.



Interest puts the world into ever-increasing debt – 'bust' replaces 'boom'

Banks create out of nothing the money they lend and the creation is sufficient to allow for the repayment of the principal. However, banks do *NOT* create enough money to repay the interest! (el-Diwany, 2003)

The system as a whole therefore requires that *overall debt must continually increase* but that also means that the level of debt has to increase to a level where it cannot be repaid. At which point debt is repudiated, confidence collapses, a Minsky moment develops – and 'bust' replaces 'boom'.

Interest creates inflation

Furthermore, at present, **TWO** lots of interest-bearing financing – one for production and one for consumption – are required to keep the system going. Western double financing requires more and more money to be created and this is the main factor causing the insidious creep-creep of inflation (before there comes the 'bust'....)

Islamic Finance – interest is heavily disguised

"What about Islam?" a woman asks. "Islamic religion forbids interest (*Riba*). Is today's Islamic Finance free of interest/*Riba*?"

The accountant replies that modern Islamic Finance *appears* to be free of interest. However, it is only in appearance because, in reality, Islamic Finance is riddled with interest which is heavily disguised. In previous times, ordinary Muslims, not wanting to be involved with *Riba*, were in effect excluded from banking services. However, the huge growth of Islamic Finance over the last 50 years, is because it

purports to be not involved with interest. But the reality today is that interest IS involved although it is hidden by complicated legal contracts through which the interest is disguised as 'rent' or described as 'mark-up', or 'profit', even 'partnership'.

Thus the services offered by today's Islamic banks are only superficially free from interest and, in practice, Islamic Finance rips off *more* from borrowers than does Western finance.

And **that** is why (says the accountant as he finishes) Islamic Finance is supported by the West and embraced by Western banks which have Islamic 'windows' (i.e., banking facilities which provide Islamic Finance).

The Chair thanks the accountant for his masterful explanation of the subject of interest.

Chapter Sixteen

Seventh and eighth (false) mainstream assumptions

Abstract

The meeting is told that the seventh (false) assumption (that population levels cannot be voluntarily reduced) and the eighth (that excessive consumption is inevitable) are connected and so they have a solution in common.

It had been previously stated (in Chapter Six) that two matters in particular – burgeoning population levels and excessive consumption – must be addressed at the same time if global problems are to be successfully resolved. Moreover, the resolution of both matters essentially boils down to *one* solution.

The Chair now announces that he has invited a well-known academic to deal with the first subject of burgeoning population levels.

A. Burgeoning population levels

vii) Seventh (false) assumption – that population levels should not, and cannot, be voluntarily stabilised or reduced

The academic starts by saying that, in long past times, humans *appeared* to create all or most of the output and so it was necessary to maintain the population which (*apparently*) did the creation. Moreover, starvation, disease and war devastated populations so that, at the very least, population replication was always essential. Furthermore, the past was a time when, generally, the world's natural resources were not being obviously strained.

And so, in the past, it was **true** (i.e., it was **believed**) that population levels should not, and cannot, be voluntarily reduced.

Things change

But that was then and not now. *Things change*. Today, it is observable fact that, in circumstances where a society has:-

- a reasonable standard of living
- good health and education systems (which are free at the point of service)
- status for women

population levels DO stabilise and can reduce – VOLUNTARILY.

This happens because, in those circumstances, children are less generally needed to provide for their parents in old age and the death rate for children is low.

The academic continues by reminding the meeting that computers and incredible technology are doing more and more of the production today (and will be doing even more in future) and so large expanding populations will **NOT** be needed to ensure adequate production.

Moreover, today's world has examples of societies with small populations having massive outputs.

The elitists lack a voluntary method to reduce population

The academic then says many people believe that the *Great Reset* elitists intend reducing population by some form of *involuntary* method. The most obvious method is a bio-weapon i.e., a genetically-altered virus. It would possibly be aimed at everybody but with an antidote secretly available only to the elitist few. Alternatively, the virus could rapidly kill before most people are able to get the vaccination.

People believe this because they notice that the elite *lacks voluntary methods for reducing population levels* and so (because the elite has power, money and a capacity for secrecy) an *involuntary* method becomes likely. And, in support of that belief, it should be remembered that:-

- Nazi scientists were doing bio-experimentation by 1939
- after World War Two, many Nazi scientists were recruited by *both* the USA (in Operation Paperclip) and the Soviet Union
- there are many secret bio-laboratories in the world today

A dubious explanation – freak of nature

Moreover, many people, thinking about the Covid-19 pandemic, notice that, even while secret virus research is going on around the world, the mainstream media *always* explain away any outbreak of virus as being a freak of nature and *never* a possible leak from a bio-laboratory....

Thus a freak-of-nature explanation for the Covid-19 pandemic is that the virus originated in the Wuhan wet meat market (which sells bat meat). Therefore, assuming that bat virus experiments are being carried on in the Wuhan laboratory (which seems likely), the question arises as to exactly how bat corpses are disposed

of and whether they are always disposed of in the authorised, ethical way (i.e., by incineration) rather than maybe being sold for a few dollars in the local wet market.

On top of that, it has long been believed that, since 1980, smallpox had been eradicated from the world by general vaccination. However, in 2003 (Iraq war), the Pentagon introduced mandatory smallpox vaccination for its military, diplomatic and medical personnel. This clearly indicated that the USA government knows that smallpox exists and is a likely pathogenic agent for combat use i.e., the USA is aware of a weaponised smallpox in the bio-laboratories. (Air Force, 2003)

NB. Smallpox is *ten times* more lethal than Covid-19.

The great fear – a death virus

Therefore, not surprisingly, many people now have a great fear that:-

- a death virus can be bio-engineered – in secret
- its antidote can also be bio-engineered – in secret – and
- the antidote made available *only to a few*.

The fear is undoubtedly real because small numbers of people, wanting to reduce global population, certainly have the necessary power, money – and secrecy.

The academic finishes by thanking the Chair for the opportunity to speak.

B. Excessive consumption

The Chair then introduces a psychologist.

viii) Eighth (false) assumption – that *Homo economicus* is an accurate characterisation of human psychology i.e., Greed Is Good

The psychologist says that the concept of *Homo economicus* is causing disaster on a colossal scale because it says that selfishness and greed are central to human psychology.

Unfortunately, as things stand (with exception of some small gift economies and commendable individuals and groups), selfish, greedy *Homo economicus* **IS** a fair characterisation of human psychology. The evidence is seen in today's societies with their endless desire for material accumulation which has disastrous consequences for *fauna*, *flora*, resources, health and the environment.

***Homo economicus* is often disguised**

Moreover, warns the psychologist, it is important to understand that *Homo economicus* is often disguised. Thus a textbook may open by saying that economics is about scarcity. This means that, while some people are able to get most (but not all) of the things they want, the rest of humanity does not, cannot, and *never will* get what it wants. The textbook is essentially saying that nobody is ever satisfied (not even the very rich) and, as for the poor, well, it's too bad – *they will always be poor....*

So, according to mainstream economics, greed is everywhere which means that excessive consumption, on the one hand, with persistent poverty and strife on the other, are inevitable as also is the depredation of resources and the environment.

Claim of Perfection by mainstream economics!

Moreover, mainstream economists love the concept of *Homo economicus* because it says that human nature cannot be changed. Thus, they claim, mainstream economics (based on the *Homo economicus* concept) also cannot be changed and so is Perfect! Wonderful! According to the mainstream economists, there's no need to think any more! Everything is solved! No more change is possible! Mainstream economics embodies Perfection! Hooray!

The cause of greed is material insecurity

And who is to say that, at present, the mainstream view of greed is unreasonable? asks the psychologist. Indeed, at present, the mainstream view **IS** reasonable – yes, reasonable – because endless greed is essentially caused by a mixture of:-

- actual material insecurity
- fear of potential material insecurity
- aspiration to the condition of those who undoubtedly do have material security

Thus, when there is a lot of material insecurity and huge rich-poor division in the world (as is the case today), there is certain to be a lot of greed....The greed, moreover, means that all humans (at least via their governments) will be aggressive. Thus the prospects for permanent peace are weak, even non-existent.

But what happens when everybody's basic needs are met?

But what happens when *everybody* has their basic needs – for food, medicine and shelter – being consistently and securely met so that they need never fear penury?

In that situation, affirms the psychologist, people will begin to question if selfishness and greed really are unalterable human qualities or whether, in positive new circumstances, it can reasonably be expected that they will change.

Greedy *Homo economicus* to be replaced by responsible *Homo co-operans*

Indeed, continues the psychologist, after considering the situation, people might begin to perceive the activities of those who endlessly desire excessive wealth and indulge in excessive consumption as immature and selfish.

People might further conclude that, whereas greed is worshipped today, in the *Planetary* future (when *every* person will have material security), **greed could suddenly become unfashionable** and so sensible living (i.e., living without excess) could become the fashionable norm for those wishing to lead valid, accountable lives.

Thus a basic material security for *everybody* is the only way to change *Homo economicus* into *Homo co-operans* and thereby give hope that the future world will be living within the resources available. In those circumstances, says the

On Planetary Paradigm

psychologist, *Homo co-operans* will come to prevail. The result will be a greater recognition of the need for moderating consumption; more accountable attitudes towards irreplaceable natural resources, *fauna* and *flora*; and an overall awareness of planetary sapience.

In short, social status will become associated with living responsibly. Furthermore, adds the psychologist, as the well-known academic has pointed out, by providing a basic material security for everybody that same security in practice leads to a stabilisation, even reduction, of population levels.

One solution – A plus B

At which point the Chair intervenes saying that a moderation in consumption is essential. As Mahatma Gandhi rightly said:-

The world has enough for everyone's need, but not enough for everyone's greed.

However, the moderation will only come about **IF** there is a combination of:-

- A. **everybody** having that material security which will enable the development of *Homo co-operans* while, **at the same time**,
- B. the material security provides the circumstances in which, in practice, population levels stabilise and even reduce.

In short – the Chair is very clear – the solution is A plus B.

The psychologist agrees – basic material security for all would lead not only to population stabilisation (or reduction) but also to moderation in material consumption. It's like killing two birds with one stone, she sums up.

The Chair then remembers what was said by futurist Buckminster Fuller:-

It is now highly feasible to take care of everybody on Earth at a higher standard of living than any have ever known. It no longer has to be you or me. Selfishness is unnecessary and henceforth unrationalizable as mandated by survival. (Fuller, 1981)

The Chair ends the meeting by thanking the psychologist for her contribution.

Chapter Seventeen

Ninth to eighteenth (false) mainstream assumptions**Abstract**

The Chair briefly explains the ninth to nineteenth (false) assumptions of mainstream thinking.

A week later, the Chair explains further false assumptions which include:-

ix) (False) High taxation (i.e., redistribution of income) is necessary

At present, high taxation is necessary so as to redistribute income (to those with inadequate income). This happens because mainstream economics fails to ensure that all individuals are sufficiently productive for their basic requirements. Put simply, many people don't have enough income and so high taxation (redistributing money from rich to poor) becomes inevitable.

Moreover, the number of those without enough income is going to increase as the great technological shift smashes out the traditional, relatively steady, well-paying jobs. and replaces them with temporary, part-time, zero-hours-contract, 'gig economy' jobs.

Precariat (social class)

In short a *precariat* has developed i.e., an agglomerate of several different social groups including (to the surprise of mainstream economists) many young *educated* people. It is a new, emerging (and increasing) social class of a nature *different from anything which has come before* and its key characteristics are:-

- job insecurity
- low pay
- lack of time control
- identity insecurity

Identity insecurity is a big factor because the *precariat* contains those who have fallen out of the old-style industrial working class. They are in a particularly bad situation because they have lost the social and psychological backing which used to come from a common industrial experience and a strong sense of class identity. (Standing, 2011)

The insoluble problem of high taxation – and the solution

Unfortunately, at present, nothing can solve the basic problem which is that, overall, jobs are doing relatively *less* of the productive output and so there is a need to correct the situation. Yet, without the correction, high taxation is inevitable and will continue to be so until, as in the *Planetary* economy, the relative earning power of the bulk of the population is increased.

x) (False) Student loans must bear interest

No! 'A student loan crisis has developed.

Yes, it's the same old story – mainstream economics says everything will be OK because there will always be lots of secure, well-paying jobs for lots of people. Therefore, says mainstream economics, when you go into huge debt for your education, you will have no problem paying off a loan – at interest.

Which is not true – most of today's students will end up unable to repay interest-bearing debt.

**Student loans not from private sector**

As long as student loans originate from public or national banks (and *not* from the private sector) there is no reason for student loans to bear interest.

As regards the security, or collateral, for the repayment of the loan, repayments can be collected via the governmental taxation system.

xi) (False) Slogan – *There Is No Such Thing as a Free Lunch*

This stupid, selfish, lying slogan claims that any improvement for the poor inevitably involves a detriment to the rich (although another meaning is that acceptance of a free lunch creates a reciprocal obligation.) In short, the claim says that an economy is a zero sum game and the basis of the slogan is a complete misapprehension about how wealth is created because the reality today is that ***technological advance massively increases total output***. Thus the key problem is how to *spread* the increase so that *everybody* benefits with a consequential balancing of supply and demand.

xii) (False) An economy requires *TWO* lots of financing *BOTH* bearing interest

Today's economies require ***TWO*** lots of financing – one for production and one for consumption – ***BOTH bearing interest...***

Simulfinancing

With *Planetary* financing, however, only ***ONE*** lot of *interest-free* financing is necessary because it finances ***BOTH*** production and consumption ***AT THE SAME TIME*** and so is called *simulfinancing*.

xiii) (False) Personal, national and international debt is healthy

Nonsense! Because of having to repay interest, indebted people and nations have *less* purchasing power (and *less* ability to repay) than would otherwise be the case.

Furthermore, when compound interest prevents the debt ever being repaid, collateral assets are seized by the international vultures.

xiv) (False) Economics does not need to take account of other subjects

Wrong! Because everything is ultimately connected, ALL academic subjects, to the greatest possible extent, must take account of other subjects and always have a strong sense of, justice, *Planetaryity* and ethics. (Blake & Gilman)

xv) (False) Economic inequality is desirable – the greater the ratio between top and bottom earnings, the better

Yes, mainstream economics claims inequality is desirable. High earnings, it claims, are the result of hard work and effort.

Sometimes they are but, generally, wealth results from ownership of, or control of, or connection with, what really does create the wealth i.e., the planetary capital instruments with the technology and natural productiveness embodied therein. Indeed, billions of people work really hard but their reward is derisory and wealth does *not* 'trickle down' from rich to poor. Moreover, gross inequality prevents a proper balance of supply and demand.

xvi) (False) Large economic cycles and crashes have ended

The cycles and crashes have *not* ended e.g., 2000 and 2008. Furthermore, there is a huge crash to come in the near future. The cycles and crashes are the result of an imbalance in supply and demand. Then, in order to try to correct the imbalance, there is a rise in debt – more and more debt – to unsustainable levels. At some point, a crash becomes inevitable particularly because today's debt levels – personal, corporate and governmental – are *higher* than those of 2008!

If the crash of 1929 is re-visited, for example, it will be seen that the biggest factor in the crash was the build-up of debt to a point at which a crash had become inevitable. Prior to the crash, of course, there was a sharp rise in bubble mania. And when the build-up and the mania are combined with a lack of understanding about the need for an economy to be in balance, the inevitable happens – another crash with the consequence that numerous lives are ruined.

xvii) (False) Economic history is irrelevant

Economic history reveals the truth but mainstream economics, with astonishing arrogance, is determined to eradicate the teaching of economic history in universities claiming that, nowadays, everything is in perfect balance (or, if a little out of kilter, will soon return to balance). The claim means that the mistakes of the past which include:-

- excessive un-repayable debt
 - debt in the wrong places
 - money created out of nothing and NOT used for spreading the real economy
 - stock market mania and bubbles galore
 - rich-poor division
- are never understood, let alone corrected.

xviii) (False) Economics is a separate academic subject which need not take account of other subjects

On Planetary Paradigm

Academic subjects tend to be studied separately if only because the amount of information involved is such that specialisation seems to be inevitable. Yet the more the specialisation, the more the danger that the facts will be viewed *in only one way* and so minds become closed to viewing them in any other way.

As far as possible, all academic subjects, to the greatest possible extent, must take into account all other subjects and always, always, have a strong sense of ethics and social equity.

All 59 false assumptions (with their true reversals) can be found in Appendix One.

Chapter Eighteen

Efficacious paradigm**Abstract**

It is time to explain:-

- why the new paradigm is efficacious
 - how it enables a new methodology for, and new definitions of, academic subjects
 - how it expands the domain of academic subjects
-

At the next meeting the Chair says that it is time to explain why the new paradigm is efficacious. He has therefore invited an eminent philosopher (who specialises in epistemology i.e., in discovering how truth is ascertained) to address the meeting.

The philosopher opens by saying that the new paradigm is efficacious because it is:-

- *accurate* in its understanding of the facts
- *internally consistent* in its understanding
- *comprehensive* in scope
- *simple* – the simplest explanation of the facts is best (Occam's Razor)
- *fruitful* i.e., revealing new phenomena, new relationships and seemingly endless beneficial possibility. Indeed, there is a new vista, a new landscape, in which new animals and plants are seen. Even the colours are new...
- **not reductionist**. The *Paradigm* encompasses many subjects e.g., history, sociology, psychology, religion, environment, finance, law, economics, health, politics, anthropology, education, technology, physics, philosophy and epistemology. **NB**. There are areas needing development – see Appendix Two.

Furthermore, the *Paradigm*:-

- includes *ethics*
- is *allocentric* (i.e., concerned with the needs of others)
- understands *change over time*
- promotes *Planetary*

Efficacious methodology – EDCReDSIPI

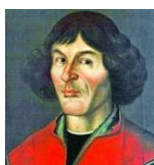
The philosopher then explains that present mainstream methodology is outdated and, in particular, is resulting in a failure to find solutions to apparently intractable problems.

However, the new paradigm enables a new methodology for academic subjects – **EDCReDSIPI** – which is not only efficacious but also central to the

On Planetary Paradigm

epistemological challenge of discovering truth **AND** is capable of solving the apparently intractable problems. In its method EDCReDSIPI:-

- **Examines** the facts – *meticulously* examines the facts – and, like Alfred Wegener and James Lovelock, takes into consideration a wide range of facts
- **Detects** the assumptions about the facts made by mainstream schools
- **Checks** to see if the assumptions are accurate before deciding, for example, if the mainstream reason for persistent poverty is true
- **Reverses** inaccurate assumptions – whereon the reversals or near-reversals **are seen to be true!** In the case of the Planetary Paradigm **this is done 59 times!**
- **Deduces** new, beneficial policy from the reversed assumptions
- **Seeks** the simplest possible overall explanation of **ALL** the facts



By meticulously and comprehensively examining the facts, applying logic, rejecting false assumptions and ensuring coherence in overall explanation, the new methodology is making an epistemological challenge and following in the footsteps of Copernicus and Galileo.



Moreover, the new methodology:-

- **Includes** ethics
- **Promotes** *Planetarity*
- **Induces** new creativity

New definition of academic subjects e.g., economics

New paradigm and new methodology result in new definitions of academic subjects. For example, the definition of economics becomes:-

Economics is the science of production, distribution and consumption of wealth, goods and services always ensuring a truly balanced economy (in which everybody is productive) and taking into account the wellbeing of all people and responsibility towards fauna, flora, ecosystems, environment and resources. It works towards Homo economicus evolving into Homo co-operans.

Mainstream definitions of economics

The above definition of economics is in complete contrast to the mainstream definitions which, for example, say that economics is:-

- *about scarcity* – this definition is found in many textbooks
- the *Calculus of Pleasure and Pain* – Jevons

All mainstream definitions, however, whether clearly expressed or not, have at their core the concept of a selfish, greedy *Homo economicus*.

Moreover, since *Homo economicus* is claimed to be basic human nature, mainstream economics is also saying that *nothing*, particularly itself, *can ever be*

On Planetary Paradigm

changed and so selfishness will prevail with some people being much more fortunate than others....

In short, the mainstream definitions of economics reflect an outdated understanding not only of physical reality but also an inability to understand that human psychology *CAN* change *when human circumstances change*.

Expansion of domain

Furthermore, the *Planetary Paradigm* hugely expands the domain of economics so that it includes:-

- other subjects e.g., psychology, history and law
- ALL humans (rather than excluding, e.g., carers and the young)
- ALL aspects of the environment
- ethics

thereby creating a new wholesomeness and global connection.

The philosopher finishes by saying that the true efficaciousness of the new paradigm will be seen when its practical applications are considered.

The Chair announces that he will be inviting the philosopher to dinner.

Chapter Nineteen

Practical applications of the new paradigm**Abstract**

There is now sufficient understanding for the new paradigm to be presented in practical terms i.e., in its effects on everyday life. At the centre of the practicality is the recognition that large amounts of interest-free money can be created by the national bank for many beneficial purposes as long as the money is repaid and cancelled.

The Chair opens the next meeting by saying that they are fortunate because a national politician will be explaining practical applications of the new paradigm.

Whereupon a woman (who has been sitting quietly at the back of the room) comes forward.

Supply of interest-free (repayable) loan money emanating from national bank

The national politician begins by saying that, in today's oligarchic finance capitalist societies, interest-bearing money is the norm. However, in contrast to the norm, *Planetary* financing introduces a supply of interest-free repayable loan money emanating from public, national or international banks (but locally administered by the private banking system and public banks charging administration cost but no interest).

There is no reason not to introduce the interest-free money supply other than the outdated assumptions and practices now bringing our world to destruction.

Chicago Plan – private lending (at interest) to continue

Nevertheless – the politician adds – the lending of private money will continue and, as at present, will continue to bear interest **AS LONG AS** it is *existing* money and **NOT** money newly-created out of nothing by the banks. The mechanism for stopping money creation by the banks is a gradual rise in banking reserves to 100%. This is the well-known *Chicago Plan* long advocated by famous economists. It allows for interest to be charged but only on existing (and not on newly-created) money.

Practical application of national bank interest-free money

The practical application of genuinely interest-free money may be summarised as follows:-

THAT**IN A PLANETARY SOCIETY, for the purposes of addressing:-**

- *major environmental issues (including global warming)*

On Planetary Paradigm

- *the conservation of natural resources*
- *the necessity for sustainable (and, in particular, habitable) economies*
- *a change from Homo economicus to Homo co-operans*
- *existential risk*

AS WELL AS ensuring that money is related to the real economy and its spreading,

THERE ARE NO INTELLECTUAL OR PHYSICAL BARRIERS to the **creation** by public banks, national banks or international banking institutions of a large supply of interest-free loans administered by private and public banks (charging no interest) on wide ownership, small business, small farm, real economy and environmental principles **AS LONG AS** the money is repaid and cancelled thereby leaving behind in existence the productive or environmental asset for which the loan was originally extended.

NB:-

- the amount of interest-free issuance is limited by requirements for real economy, wide ownership and environmental benefit.
- interest-free loans are rapidly repaid (as compared to interest-bearing loans).
- private banks, periodically inspected, would do the administration charging only genuine administration cost. Any bank abusing the privilege of being allowed to administer the interest-free supply would lose the privilege.
- the deposits of customers in banks would be the *property of the customers* (and *not* of the banks as at present).
- (when necessary) the provision of collateral can be done via capital credit insurance.
- with exception of reserves for research and depreciation, ALL large corporations would have to pay out ALL their earnings all the time.
- Under Section 13 of the Federal Reserve Act (1913), the USA Federal Reserve can issue interest-free loans.

(Pre-distribution) Basic Income PLUS Capital Ownership

If a person has a reliable job, that's good, as is a small business. However, computers and incredible technology are destroying secure well-paid jobs and replacing them, if at all, with temporary, insecure, low-paid, 'gig economy' ones. Unfortunately, mainstream thinking has no way of ensuring the equivalent of good jobs in the future.

Nevertheless, the new paradigm *does* have a way – (pre-distribution) **Basic Income PLUS Capital Ownership** (in large corporations) – which compensates for decrease in job opportunity by substituting capital income and ownership *which can be received by non-employees as well as employees*. Indeed, *Planetary* financing, **over time, spreads capital income** (i.e., Basic Income) as well as capital ownership to **every** person in society.

Weakness of Zakah and Khums

On Planetary Paradigm

Moreover, Basic Income solves a weakness of Islamic *Zakah* and *Khums* which are charitable obligations to help the poor rather than a structured solution to persistent poverty. Charity is certainly moral but it is rarely sufficient, adds the politician.

The Competence

Over time, all people will come to own, or have access to, a basket of full-payout shares in the big corporations with payouts between five and eight times today's payouts. See Appendix Three.

The payouts ensure that **daily** economic power (i.e., Basic Income as advocated by Joseph Stiglitz, Ray Dalio and Nathan Gardels) is in the hands of *everybody* thereby implementing a balance of supply and demand as is required by Say's Theorem (Law).

Mothers with children, therefore, will be able to raise them without financial pressure. Even small children will have income, sufficient for basic need. At the age of five (if education is not free) the income increases to pay for school fees, with increases at eleven and sixteen. Thereafter, the income stays as part of the adult **Competence** defined as:-



A capital estate large enough to supply current consumer income sufficient for supporting a reasonable life style (taking account of other people as well as environmental and resource considerations). (Ashford & Shakespeare, 1999)

People should have jobs if possible, says the politician, but ALL people must have a Competence (which is in addition to any income from a job).

NB. The Competence provides Basic Income PLUS Capital Ownership!

Research finds that, aged 65, an adult would have a Basic Income (at 2005 figures) of \$26,000/year **AND** a Capital Ownership of \$200,000 with both figures increasing after the age of 65. (Kurland *et al*, 2005)

NB. The above figures would be **very** much higher today.

Interest-free loans have a wide range of uses

Interest-free loans have a wide range of uses:-

Housing

Private

A house or apartment *continuously provides accommodation*. It is therefore a remarkably productive asset and so is eligible for an interest-free loan if the loan is:-



On Planetary Paradigm

- 80% of valuation (with criminal penalties for deliberate false valuations and declarations of income)
- properly related to income (e.g., three to four times income and not ten times or more as at present)
- not at the expense of home ownership for others

Public or social

Interest-free loans for public housing (advocated by USA Congressman Dennis Kucinich) can *halve or more* the cost. It is disgraceful that there is homelessness yet the materials for housing are widely available. (Shakespeare & Challen, 2002)

The town or city borrows the money (interest-free) from the national bank and repayment is from fees, rents and taxes.

Water and sewage

Water and sewage projects can be built for half, or less, of the present cost.

Transportation

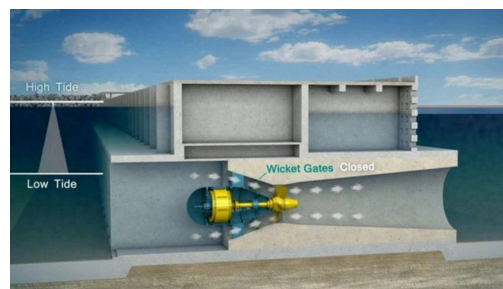


Railways, bridges, airports, roads etc. can be built for half or less of the present cost. (Shakespeare, 2007)

Clean electricity and environment

Interest-free loans can be used for generating clean electricity e.g., geothermal (particularly hot dry rock) power, hydroelectric schemes, windmills, underwater turbines, wave machines and tidal lagoons thereby halving or more the cost.

Tidal lagoons use old technology – concrete and slow turbines – and are easily constructed. On the concrete there can be windmills and, on the outer, seaward-facing side, wave machines. On the surface of the lagoon there can be floating solar panels. However, because construction is lengthy, *compound interest stops tidal lagoons from being built!*



Many countries are suitable for solar generation e.g., solar panels, solar towers and various sun technologies which capture sunlight during the DAY. Moreover, there might soon be thermo-photo-voltaic cells which capture the Earth's infra-red radiation at NIGHT!

Quantum batteries have huge potential for clean energy. Gravity batteries and pumped storage systems are relatively easy to construct.

Greenery

On Planetary Paradigm

Re-wetted peatlands as well as mangrove-crested sea barrages and coastal wetlands can sequester as much CO₂ as rain forests! Multi-species re-forestation and re-introduction of extinct species (both animal and plant) are essential.



Re-wilding is a key concept in environmental protection because, while it may or may not involve an element of human intervention, it essentially allows more space (together with freedom from pesticides and the like) for the re-generation of *flora* and *fauna*. As things are at present, human beings put endless pressure on good, fertile land and it is time to give that land, and its natural inhabitants, urgently-needed relief.

Simple hydration, beavers and prairie dogs

The regeneration of barren lands is essential. Immense beneficial change can be effected by relatively simple means e.g., half-moon ‘smiles’ which are five metre wide scoops on barren land which collect rain water (thereby preventing rapid run-off). This allows the water to soak into the strata below and so hydrate a whole landscape.

Moreover, regenerative work can be done by the re-introduction of beavers. Short-sighted policy kills beavers: long-sighted policy understands their potential for:-

- eliminating droughts
- diminishing floods
- moderating wildfires
- rejuvenating the ecosystem



Other species, too (e.g., bison and prairie dogs) when reintroduced onto barren lands can have extraordinarily beneficial effects.

Sacred Groves, communal Seasonal Ceremony and Hymn of Praise

Furthermore – the national politician is ending – as part of policy to restore diversity and respect for nature, every piece of agricultural land and communities in general (including schools, where possible) should have a *Sacred Grove* dedicated to demonstrating in some way a commitment to healthy ecosystems. Communal Seasonal Ceremony with some song should reinforce the Grove’s ecological significance. See Appendix Four – *Our Sacred Grove*.



Because of another engagement, the national politician cannot finish all that she wants to say.

On Planetary Paradigm

The Chair therefore thanks her for a very helpful exposition of practical applications and says that other applications can be addressed at the next meeting.

Chapter Twenty

Other applications of interest-free loans

Abstract

At the next meeting the Chair deals with other applications of interest-free loans.

Interest-free micro-credit

Micro credit is one such application, says the Chair. In some countries, a woman may often have never travelled more than a few kilometres from her matrimonial home, be regularly attacked by her husband and fail to get her children educated.

However, interest-free micro-credit includes training and a chance to pay (a small sum) for the education of her children. Thus she can become a bread-winner and so, over time, the power imbalance with husband and men in general becomes corrected.

Unfortunately, the 'free market' has locked onto, for example, Bangladeshi women with commercial lenders charging 50-60% *per annum* and rural lenders 100-250%.

In practice, the Grameen Bank charges about 34% because it borrows at 17% and the next 17% is for:-

- high cost of collecting small sums in rural areas
- the cost of giving training to potential borrowers

By putting borrowers into small groups (with all individuals being responsible for the loans of the others), the Grameen Bank achieves a 98% repayment rate as do similar organisations. With interest-free loans (at an effective rate to the borrower of 17%), *overall repayment would be 100%*.



Start-ups, small businesses, small farms and duck ponds

Start-ups, small businesses, small farms and duck ponds are often crushed by interest. But interest is *not* necessary when money is put into productive capacity and its spreading.



As long as there is provision for collateral (which can be capital credit insurance) and administration cost, there is no reason for interest.



Medium size companies

Medium size companies may have interest-free money but, subsequently, must commit to full payout of earnings and the spreading of ownership.

The use of interest-free loans is not new

There is nothing new about interest-free loans, adds the Chair. Guernsey (which has minimal debt) has used the loans and so has Malaysia. Over the prosperous period 1939 -1974, Canada used the loans and, today, many municipalities are demanding their use to upgrade infrastructure. After 1935, New Zealand used the loans – for hydropower schemes, railways, state housing etc. – and had a prosperous period. In the late 1940s Taiwan used the loans to spread ownership of farm land without harming the rich.

The key question – and its answer

Therefore the key question is – *Why did the interest-free lending stop?*

The answer is that vested interests, making use of false assumptions about reality (reinforced by endless propaganda), were able to falsely claim that interest-bearing money is better than interest-free.

Social taboo prevents discussion

The result of the propaganda is the creation of that most powerful thing – a social taboo – which essentially prevents any discussion of a subject. This taboo was identified in 1991 by USA economist Robert Solo who, in referring to how interest hits the poor, put his finger on the matter:-

A great part of the \$10 billion of annual interest on the federal debt, which systematically transfers income from the poorer to the richer, from those who are without to those in great possession, is a cost of a social tabu (taboo). (Solo, 1991)

Counter-inflation

Because rapid loan repayments combined with a spreading of the real economy result in a balance of supply and demand, *Planetary* financing creates *counter-inflationary* circumstances in which **technological advance is forwarded** thereby unleashing cheaper and more efficient production.

Yes, in counter-inflationary circumstances, *everyone gains* from implementation of the new paradigm because it ensures that the benefits of technological and natural productiveness become available to all.

Doe-flation

Indeed, the combination of efficient production, widespread distribution and lower price levels requires a new word and *doe-flation* (a 'doe' is a female deer) is as good as any.

Doe-flation, while spreading earning power and technological productiveness to everybody, will cause a *lowering* of the price level but, should it be desired to

maintain an even level, there may be room for some debt-free monetary issuance e.g., for environmental projects.

The Chair announces that, at the next meeting, there will be opportunity for questions.

Members thank the Chair.

Chapter Twenty One

A.I.D.S. and Reparations

Abstract

Members ask questions about heavily indebted countries and Reparations for past injustice. The Chair reminds the meeting that injustice continues to this day.

After having assimilated the practical implications of the new paradigm, the next meeting starts with questions from members.

A.I.D.S.

A man asks about A.I.D.S. – **Accumulated International Debt Syndrome** (Anjum, 2004) – and a woman complains that many countries are ill because they are:-

- *entrapped* into ever-increasing, debt
- *controlled* by outsiders
- *subject* to having their resources expropriated (Anjum, 2004)

Forced to beg for relief from the International Monetary Fund they become owned lock, stock and barrel by the banking elite.

The Chair responds that this shocking situation is addressed by *Planetary* finance which decolonises countries and enables their independence by ensuring that they control and issue their own interest-free money supply rather than always borrowing foreign money at extortionate rates of compound interest.

Compound interest – \$5 billion becomes \$44 billion!

At which point the accountant stands up saying that the effects of compound interest are such that whole countries are trapped into ever-increasing debt which they can never repay and so their assets are sold off to predators. Put simply, the countries are colonised i.e., they are milch cows owned and exploited by outsiders. For example, in the year 2000 Nigeria's debt to international creditors had increased from \$5 billion to \$28 billion even though \$16 billion (i.e., over three times the original loan) had already been repaid. In this way, \$5 billion had become an amazing \$44 billion in total and *even more in the future*.

Nigerian President Obasanjo said:-

On Planetary Paradigm



That \$28 billion came about because of the injustice in the foreign creditors' interest rates. If you ask me what is the worst thing in the world, I will say it is compound interest. (Obasanjo, 2000)

The Great Untruth

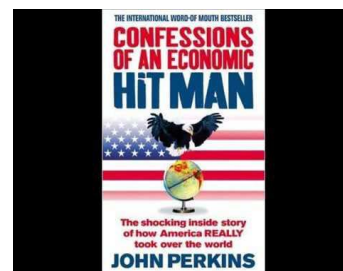
Indeed, the worst-thing-in-the-world situation is certainly the case when interest-bearing money is lent to poor countries. By a process of bamboozlement and deceit the poor countries of the world are told the Great Untruth that:-

- there is no alternative to the present system
- they are borrowing existing money (no – the money is created out of nothing)
- they can *only* borrow from abroad (when they can use their own money supply)
- the borrowing must be at compound interest (which enables the lenders to take over the nation's wealth).

Unfortunately, even highly intelligent people can be gullible and led to believe that there is no alternative to the present system.

Corruption of lenders

Furthermore, continues the accountant, gullibility is only part of the problem – the other part is the corruption of the lenders. In *Confessions of an Economic Hit Man*, (2004), John Perkins rips aside the veils of hypocrisy and deceit as he reveals the way Indonesia, for example, was given exaggerated technical forecasts, over-priced contracts, work contracted out abroad rather than locally, and enervating interest rates on foreign-created money.



This is predatory lending at its worst and yet it goes ahead even though the lenders *know* that, in the circumstances, it is immoral to lend. But the lending always happens because the lenders have the mouth-watering prospect of profit (in the form of interest) *continuing forever*.

Debt relief is a fraud

Moreover, the elites and creditor countries today do not give some form of debt relief with the object of eliminating interest-bearing loans. Rather they give the relief (often on tortuous conditions so that, in practice, the relief is minimal) to ensure that heavily indebted countries, although on their knees, *are still able to continue paying the compound interest on debt*.

The relief is to ensure that the indebted countries do not suffer complete collapse and so not be able to pay anything at all. Therefore present international debt relief is cynical behaviour of the worst sort particularly when, as a condition for debt relief, the indebted countries are forced to sell off their capital assets to foreigners.

Call for Reparations – past AND present injustice

Another woman then proposes a Call for Reparations saying that the West owes Reparations for inflicting injustice.

However, the Chair respectfully disagrees saying that ALL countries, at one time or another in the past, have behaved badly to other countries and, if not that, have behaved badly towards their own citizens. Thus – the Chair is very clear – there is a general need to remedy colonial, war, slavery and other injustices perpetrated on populations in the past.

“What about the present?” A man interrupts.

“AND the present” responds the Chair. “There is even more a need to remedy injustice in the present.”

Discussion then decides that today’s injustice could be summarised as affecting:-

- unpaid women
- all people (men, women and children) denied access to capital ownership and income

Whereon it is AGREED TO CALL for Reparations to remedy injustices past and present and so, over time, *Planetary* capital ownership and Basic Income should become available to all.

The accountant and the Chair are thanked for their contributions.

Chapter Twenty Two

Economic Democracy

Abstract

Today’s democracy is not true democracy. The vote is a very weak power exercised only infrequently. True democracy is Economic Democracy which is *daily* economic power. Moreover, the American Constitution *prevents* the spreading of Economic Democracy.

The meeting is shocked.

Mondragon Co-operatives and Binary Economics are considered together with the potential of the (original) ESOP mechanism.

It’s time to deal with democracy the Chair says a week later. Or rather, he adds, with Economic Democracy which is the *spreading* of economic power to counter-balance the increasing concentration of economic power by the elite. Moreover, the spreading of economic power is necessary to counter-balance the increasing concentration of political power by governments.

The Chair then informs the meeting that a student has contacted him and he feels sure that she is very qualified to speak.

Western ‘democracy’ is *NOT* true democracy

The student begins by saying that Western ‘democracy’ is *not* true democracy because it only allows a very weak power – the vote – which:-

- is exercised infrequently
- rarely changes anything substantially
- may result in deterioration of a person’s situation
- *always* maintains narrow ownership of productive capital instruments

Narrow ownership is deeply embedded in American society

Narrow ownership, moreover – the student is developing her theme – does not happen by accident: it is, for example, deeply embedded in American society.

The meeting is surprised.

And the American Constitution, adds the student.

The meeting is shocked

The meeting is shocked. How so?

“We have a perfect Constitution!” shouts a man.

The student shakes her head and explains that, at first, the 1776 American Revolutionaries had proposed *Life, Liberty and Property*. At the time, ‘property’ in particular meant ownership of agricultural land and housing.

By proposing Property the Revolutionaries were following John Locke who, in his *Two Treatises of Government*, had proposed *Freedom, Life, Liberty, Property and the Pursuit of Happiness*. (Locke, 1689) However, when the Revolutionaries got to Philadelphia, they changed the words of the Constitution *so as to exclude Property*. The words therefore became *Life, Liberty and the Pursuit of Happiness*. Thus a word with real practical meaning (i.e., ‘Property’) had been replaced by a vacuous abstract noun (‘Happiness’).

Whereon the meeting is shocked again....

Unfortunately, continues the student, this was deliberately done so as to ensure that, in future, the bulk of the population *would be excluded from the ownership of property* (and, nowadays, ‘property’ includes planetary capital instruments such as technology, machinery, factories, patents etc.) The result today is that substantial property ownership (with the associated income) is denied to the majority of the American population. In short, the propaganda claiming there is true democracy in the USA today is hogwash.

The meeting remains in shocked silence until somebody suggests it is time for a refreshment break.

True democracy is a power to control everyday life

On Planetary Paradigm

After the break, the student states that true democracy is a power to control everyday life by having independent, sufficient and secure daily income. 'Independent' means 'as independent as possible' i.e., something which, at the very least, does not arise at the behest of others.

And *that* (emphasises the student) can only mean one thing – widespread property ownership with associated Basic Incomes sufficient for everyday requirements. (Kelso & Kelso) Anything less is a deception because, without the ownership, somebody other than the individual is in control.

The student then goes on to deal with other democratic matters:-

A. Mondragon co-operatives



The Basque region of Mondragon in Spain is famous for its:-

- relative prosperity
- absence of rich-poor extremes

There is also good social cohesion and local pride.

These things result from the Mondragon co-operatives which were founded by Father Arizmendiarieta in 1956 and employ 82,000 people today. The first product was paraffin heaters but, nowadays, industrial output is anything from bicycles to huge machines used in the manufacture of jet engines and wind turbines. Production is not confined to Spain and modern technology is sold to 150 countries. Mondragon has over 500 patents and its organisations include schools; a large grocery chain; a catering company; a University; and Research & Development centres.

Quiet quitters – and sabotage

The success of the co-operatives arises because they are both equitable and democratic while also being economically efficient. When people:-

- feel disrespected and undervalued
- know that their employers only think of them as animals to be exploited
- find that their best efforts are deemed as never enough

then, deep in their souls, they resolve on doing the minimum and never the maximum i.e., they become *quiet quitters*. They may even resort to some forms of sabotage.

Co-operative culture

However, Mondragon understands psychology and sets out to:-

- respect human dignity
- accommodate positive desires
- encourage invention

and, in every possible way, get the best out of people.

Top to bottom ratios and ownership stakes

Two big reasons explain the success of Mondragon:-

i) There are fixed ratios between top management incomes and those of, say, factory workers. The ratios range from 3:1 to 9:1 in different co-operatives and average 6:1. These ratios are truly extraordinary not least because they contrast with today's Chief Executive Officers in the UK, for example, whose emoluments average 145:1. More than anything else, the difference in the ratios reveals the first big reason for Mondragon's success.

ii) Most (but not all) Mondragon members have a direct ownership stake in the co-operative – they are worker-owners – and so have an interest in its financial success. Moreover, most workers are not on the minimum wage.

Understandably, there is a campaign to canonize Father Arizmendiarieta.

Success is in the detail

As world history has demonstrated, a wide range of co-operative models is possible although some of the past models (e.g., promoting 'worker control' without any concern for economic efficiency) were certain to fail. Mondragon is a key exception, however, because the true reason for their success is the organisational *detail* of the Mondragon co-ops (combining worker involvement with structures ensuring efficiency).

Progress is hampered

NB. However, progress at Mondragon is hampered by not having access to a large interest-free money supply. If the real economy and its spreading are being furthered, there is *never* any reason to deny the use of interest-free money.

B. Binary Economics

The student goes on to explain that Binary Economics is a precursor of *Planetary Economics*. It began in 1958 with the publication of *The Capitalist Manifesto* – Louis Kelso & Mortimer Adler.



The book created a sensation. Nevertheless, its title was both unfortunate and necessary because of America's psychotic McCarthyism which was intolerant



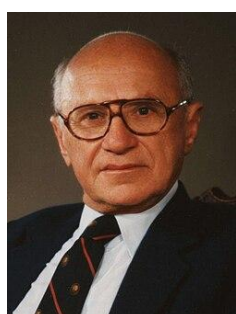
On Planetary Paradigm

of even the smallest criticism of capitalism. In effect, the book smuggled in new thinking in the guise of a conventional text. Indeed, the book's thinking was not just new but could only be truly understood as being *outside all left-wing and right-wing economics and politics*.

This is demonstrated by the attacks which were made:-

a) Pravda – ‘Ramblings along a dead end....’

Thus, on the left, Soviet *Pravda* saw the book as ‘ramblings based on thinking along a dead end of history’ – which was an egregious misstatement because Communism was soon to collapse and Binary Economics is today increasingly seen as the most modern economics of all.



b) Milton Friedman – ‘Marxism stood on its head’

Meanwhile, on the right, Milton Friedman was nonplussed and could only conclude that *The Capitalist Manifesto* must be ‘Marxism stood on its head’.

Left and right hate widespread capital ownership

Very obviously, extreme left saw the *Manifesto* as extreme right; and extreme right saw it as extreme left! Indeed, the puzzlement and confusion of *Pravda* and Friedman show that Binary Economics cannot be understood within conventional thinking.

In particular, neither left nor right can tolerate the idea of *everybody* (rather than only a few) having substantial capital ownership. Indeed, they *hate* the idea of the bulk of the population having independent incomes.

Other books

The Capitalist Manifesto was followed by *The New Capitalists* (1961) and then *Democracy and Economic Power* – Louis Kelso & Patricia Hetter Kelso (1990). The standard textbook for Binary Economics is *Binary Economics – the new paradigm*, Robert Ashford & Rodney Shakespeare (1999). John Rawls *A Theory of Justice* (1971) and the Citizens’ Trust of James Meade are also in the tradition of Binary Economics.

Ways of extending pre-distribution are being developed by the Designer Economy of the Berggruen Institute. Australia's superannuation system and Singapore's sovereign wealth fund also indicate ways of going forward.

The ESOP

Binary Economics is famous for creating the *Employee Share Ownership Plan* (ESOP). However, **NB**, the ESOP has NOT been implemented as Binary Economics originally intended because, at present, it is only for employees (rather than non-employees as well).

On Planetary Paradigm

Indeed, the original Binary ESOP has been suppressed. This is because mainstream economics (representing only the interests of the narrow, selfish elite), is determined to ensure that the ESOP cannot:-

- be paid for out of pre-tax earnings
- receive the full payout of earnings
- have the use of interest-free money

In short, the ESOP has been wrenched from its original purpose to become what it is today – of considerable benefit to both large corporations and employees but *NOT* something capable of spreading ownership throughout society.

Implementation of Say's Theorem (Law)

Extending ownership is a crucial matter because, nowadays, industries are getting ever more capital-intensive thereby concentrating productive capacity into the hands of an increasingly narrow group of shareholders. This concentration of ownership is disastrous because it prevents the implementation of Say's Theorem which requires that the ability to be truly productive is spread widely in the population.

Thus, by spreading ownership with the associated Basic Income, the *Planetary* economy is the democratic alternative to the elitist *Great Reset* economy which concentrates ownership into the hands of the few.

Other Binary Plans

The Binary ESOP is only one of several techniques or Plans — e.g., Individual Share Ownership Plan, Consumer Share Ownership Plan, General Share Ownership Plan, Mutual Share Ownership Plan — all of which can be used to broaden capital ownership because, at their heart, there is the use of central bank-issued interest-free loans for the creation and spreading of productive capital ownership.

Without those loans the defect in the present ESOP legislation will remain in that it requires poor and working people to acquire capital primarily with the present earnings of labour rather than primarily with the future earnings of the planetary capital instruments.

Palestine

There is also a **Binary Plan** for **Palestine** by which, over time, **ALL** citizens would acquire capital ownership and therefore a stake in the stability and success of the economy – see www.binaryeconomics.net

If *everybody* in a society has a direct interest in maintaining the stability, development and success of the economy including its capital assets (AND *everybody's* income depends on the success of the economy), then it is reasonable to presume that people will co-operate.

Renovating democracy – *Planetary Democracy*

On Planetary Paradigm

Therefore – the student is summing up – it is erroneous to think of democracy as only the vote because, by so doing, *economic* aspects are being hidden, indeed, suppressed.

In contrast, what matters is whether democracy has a strong *economic* element i.e., a *DAILY power for people to control their own situations* which means that they have an independent income sufficient for reasonable living. Thus in 2015 (*Renovating Democracy: Governing In The Age of Globalization and Digital Capitalism*), Nicolas Berggruen and Nathan Gardels advocated universal basic capital and income. Then, in July 2025, the USA government passed *The Money Account for Growth and Advancement Act* setting up capital accounts for young people.

The student ends by saying that the absence of the economic element in democracy today is why a considerable percentage of the population does not vote.

Chapter Twenty Three

The future

Abstract

Jobs for most people will disappear while the elite will not only accrue more wealth to itself but will also ensure that most people are confined to a tiny income. Moreover, people will be controlled in every possible way as well as being subjected to **in**voluntary population reduction measures.

In contrast, the new *Paradigm*:-

- extends capital ownership and income to everybody
- enables a voluntary stabilisation or reduction in population levels
- stimulates a change from a selfish, self-centred, irresponsible *Homo economicus* to a responsible, outward-looking *Homo co-operans*.

Ever-onwards goes the march of technology with more and more people becoming aware that *their* job (or their chances of a job) could soon be disappearing.

So what will be the future? It will be:-

EITHER

A. The Great Reset

The *Great Reset* elitists **say** – in contradiction to lying government propaganda which claims there will always be good jobs for everybody – that most traditional jobs will disappear. They further say that the bulk of humanity will be on the scrap heap having become ‘useless’. In debt; in uncertain health; hooked on

drugs, social media, video games and the Metaverse, most people will be useless because of having no productive function.

Some people will be highly productive – guess who

Nevertheless, *some* people will be highly productive and readers are invited to guess who they might be....

Well done, dear reader! The *Great Reset* elite, of course! They will be highly productive because of their ownership and control of what produces the wealth – the planetary capital instruments. It's as simple as that.

Tiny basic income

Unfortunately, the elite will also be highly contemptuous of those who are not productive. Therefore, assuming that 'useless' humans are allowed to live (and *that* is a big assumption), it is likely that any basic income for most people will be minimal at best. Moreover, the income will only be allowed on very particular terms dictated by the 'social controllers' who will decide *exactly* how the income is spent.

As for 'useless' people being allowed to live, the elite has no policies for the *voluntary* reduction of population levels and on that no more need be said. And as for those who will be allowed to live, the elitists intend a heavily manipulated, implant-controlled (or controlled directly by 5G electromagnetic waves), politically impotent *delta* class completely dominated by a tiny stratum of *alphas* and *betas* i.e., a version of Aldous Huxley's ghoulish *Brave New World*.

In sum:-

- no private property for most people
- elimination of small businesses and farms
- a tiny basic income for most people
- exorbitant riches for the few
- constant control and surveillance
- an authoritarian technocracy
- reduction of population – probably by *IN*voluntary methods



OR

Planetary Paradigm to the rescue!

*Justice which creates Efficiency and Freedom
Efficiency and Freedom which create Justice!*

If the power-mad elitists are to be defeated, ordinary people must have independent economic bases. Without such bases, they will be controlled by others and unable to resist moves towards totalitarianism and fascism.

ALL people to become productive

What is Sauce for the Goose is Sauce for the Gander!

In practice (and in law), the ownership of planetary capital instruments means that **the owner is being productive** (even when the instruments are natural things or automated processes).

Thus rich people never doubt that **they themselves** are fully and splendidly productive. “**WE** are the wealth-creators!” they boast. “**WE** provide wealth and opportunity for others!”

Moreover, any suggestion to the contrary elicits an indignant denial. “How **dare** you! You must be a filthy communist!”

Thus, whether or not they are passive owners or play a direct part in an enterprise, the attitude of rich people is always the same – **they** are the wealth creators. Moreover, **they** are **the superior** wealth creators (because, as capital owners, they believe themselves **superior** to those who only have labour to offer).

In contrast, *Planetary Economics* not only upholds the value of both capital and labour but also ensures that **ALL** people become productive and so provide wealth and opportunity for others! Indeed, **ALL** people become directly connected to the real economy and so will be productive *in exactly the same way* as rich people are productive today.

Thus:-

What is Sauce for the Goose is Sauce for the Gander!

Fulfilling and creative lives of the *Planetary* society

Therefore, far from being ‘useless’, **ALL** people will be able to have fulfilling and creative lives. From the earliest age, they will be developing their intellectual, practical, physical and emotional skills as well as their artistic instincts doing music, painting, dancing, theatre, handicrafts and engaging in sports.

People will study over their lifetimes.

Moreover, they will be investigating the ecosystem and be likely to want to play some part in activity ranging from nurturing varied *flora* and *fauna* to regenerating barren lands. After all, planetary health is a pre-condition for durable human health.

Indeed, the health of a specific human community is inseparable from the health of its relationship with animals (including pets), watershed, airshed, surrounding ecosystems and, ultimately, the planetary system as a whole.



Countering helplessness – participation is everything

A health perspective, furthermore, can counter individual feelings of helplessness by empowering collective action, for example, in developing regenerative agriculture, restoring key ecosystems and building resilient local communities that transcend individual limitations. In the latter respect

complementary currencies will be helpful – see the work of Berggruen Philosophy Prize winner Kojin Karatani.

Isolation can be destructive. *Participation is everything* because it can unlock sources of meaningfulness in an age teetering on despair. Indeed, meaning will be found not in the illusions of the past but by participating in the work of shaping a viable future. When we address the planetary predicament with courage and creativity (rather than succumbing to apathy and nihilism) we give meaning to our lives.

The purpose of life is to serve

In truth, many and splendid are the ways in which we humans can fulfil the purpose of our lives which is **to serve the human race, fauna and flora in every way possible**.

Only when this is understood can our lives achieve cohesion and true purpose.

Unification of Science and Religion

And, to cap it all, understanding of planetary interconnection and universal consciousness could be pointing to an eventual unification of Science and Religion.

Thus religions in general have some concept of universal unity – Islam, for example, has a starting point of *Tawhid* i.e., *Oneness* or the *Law of Divine Unity* – and the concept has increasing resonance with the discoveries of modern science. An eventual unification of Religion and Science is becoming possible, even likely.

Change in human psychology – *Homo economicus* evolves into *Homo co-operans*

Crucially, in the *Planetary* society, *Homo economicus* will evolve into *Homo co-operans* because the new *Paradigm* notices that human greed is caused by:-

- *actual* material insecurity (of food, accommodation, etc.)
- *fear* of potential material insecurity
- *aspiration* to the situation of those who undoubtedly do have material security

Therefore, when, over time, all humans come to have a basic material security there is at least a chance that human psychology will start to evolve particularly because of the connection between material security and social status. At present, high material security and high consumption are associated with high social status while low material security and low consumption are associated with low social status. However, when *everybody* has material security, the concept of what is, or is not, high or low social status, will change.

In fact, whereas greed is worshipped today, in the *Planetary* future greed could suddenly become *unfashionable* and so sensible living (i.e., living without excess) could become the fashionable norm for those wishing to lead valid, responsible lives.

On Planetary Paradigm



Yes, **when all people are materially secure, endless greed will NOT be the impetus behind their behaviour and they will develop the environmentally-conscious mindset of *Homo co-operans*** and so give hope that the future world will be living within the resources available.

Gentle change-over.... – like a spring day

The *Planetary Paradigm* founds an intellectual, psychological, material and moral revolution which is politically neutral i.e., it favours **everybody**. Indeed, it serves the whole human race, *fauna* and *flora*.

Moreover, there is nothing violent in the revolution. In fact, told that the revolution is under way, people might ask, “What revolution?” because the change-over to a *Planetary* society is gentle and the effects, whilst immensely powerful, are quietly beneficent – like a spring day....

Appendix One

Fifty nine (false) assumptions of mainstream economics

Nobody likes being told that their assumptions are wrong or that their career is based upon false assumptions. Yet facing up to reality can be a joyous experience which happens when it is realised that those niggling doubts about an academic subject are not mere irritations but, instead, indications that something is seriously wrong.

There then comes the elation of inhaling the fresh air which results from knowing that, when paradigms shift, almost limitless possibilities can arise and they include the chance of living more exciting, fruitful and constructive lives.

“Don’t understand economics”

Furthermore, people often say that they “don’t understand economics”. This is **NOT** because they are stupid. It is because mainstream economics is based on contradictions, inaccuracies and untruths making understanding impossible.

However, with the new accurate paradigm, people suddenly realize that they **do** understand and they then experience the joy of *knowing* that they do understand....!

Below are 59 assumptions about reality which underlie mainstream economics and the associated politics. The assumptions are interconnected and often accepted as true (or as inevitable, or sensible) but, *in fact*, are **false**.



On Planetary Paradigm

Nevertheless, the *Planetary Paradigm* becomes easily understood if the 59 false assumptions are, *one by one*, and simply, **reversed** (or near-reversed) as briefly explained in *the italicised text*. Indeed, after only two or three reversals, it soon becomes clear that a new panorama with amazing possibilities is emerging.

The 59 false assumptions of mainstream economics (in no particular order) are that:-

1. **(False)**. In a task, human labour creates all, or most, of the output while the capital instruments create little or none.

(True). *This is a pernicious false assumption. Labour:-*

- *sometimes creates all the output*
- *sometimes creates a percentage, large or small*
- *sometimes creates nothing with everything being done by the planetary capital instruments which include the bounty provided by nature.*

2. **(False)**. Banks lend existing money.

(True). *No. The money is created out of nothing by pressing computer buttons.*

3. **(False)**. Interest is inevitable and necessary.

(True). *No. Administration cost, principal repayments, collateral and a business plan are necessary, but interest is not.*

4. **(False)**. Scarcity is inevitable.

(True). *No. Not when there is Homo co-operans, modern technology, responsible attitudes and stable or reducing population levels.*

5. **(False)**. High taxation is necessary.

(True). *No. High taxation results from the need to redistribute money to those without earning power and also to repay interest-bearing national debt. The new economics creates widespread earning power and greatly diminishes the effects of interest.*

6. **(False)**. The 'free market' of oligarchic finance capitalism is free.

(True). *It is un-free. Most people are blocked from entering the markets for productive capital.*

7. **(False)**. The 'free market' consists of states of equilibrium (balance) i.e., when there is disequilibrium there will always be a return to equilibrium.

(True). *Nonsense! Crashes occur and, afterwards, there is a long build-up to the next crash.*

8. **(False)**. The 'free market' allocates resources efficiently.

(True). *It allocates inefficiently. Rich-poor division and poverty are endemic.*

9. **(False)**. The outcomes of the 'free market' are always just.

On Planetary Paradigm

(True). *They are unjust. Half the world has to live on only \$5.50 per day and 10% have under \$1.90.*

10. **(False).** *Homo economicus* is an accurate description of human psychology.

(True). *It is outdated and can, and must, evolve. Homo co-operans will be better.*

11. **(False).** Mainstream economics is an all-encompassing study of objective process and universal value and further improvement in economics is impossible.

(True). *False! Further improvement is possible. Indeed, it is time to replace mainstream economics (and the associated politics) before it destroys our planet.*

12. **(False).** It is a matter of small importance that the banking system creates money out of nothing sufficient for the repayment of a loan's principal but not for the interest.

(True). *It is of huge importance because it causes an endless need for more money creation as interest-bearing debt.*

13. **(False).** *There Is No Such Thing As a Free Lunch* (i.e., any improvement for the poor inevitably involves a detriment to the rich).

(True). *False! – The new Economics is not a zero sum game. Technological advance massively increases overall potential output and enables improvement in the position of the poor.*

14. **(False).** The 'free market' upholds private property for all.

(True). *Wrong. The 'free market' always narrows ownership of the planetary capital instruments.*

15. **(False).** It does not matter who owns the capital, particularly productive capital.

(True). *It matters hugely because productive capital creates the wealth.*

16. **(False).** The 'free market' implements JB Say's Market Theorem that producers and consumers should be the same people.

(True). *It does not implement the Theorem.*

17. **(False).** Somebody who voluntarily looks after a sick person 24/7 does no work in the economic sense.

(True). *This is outrageously untrue! Carers provide a crucial service.*

18. **(False).** Ethics and morality are not part of economics.

(True). *This is madness!*

19. **(False).** The poor are poor because of lack of effort and lack of skill.

(True). *False. Apart from lack of jobs, they are poor because of lack of access to productive capital, lack of access to cheap capital credit and suffering from compound interest.*

On Planetary Paradigm

20. **(False)**. Inflation is not caused by the banking system.
(True). *Inflation is largely a monetary phenomenon.*
21. **(False)**. Financial savings are necessary before there can be investment.
(True). *Nonsense! Nowadays, money is created out of nothing!*
22. **(False)**. Physical savings are necessary before there can be investment.
(True). *This is generally untrue because materials, or substitutes, are available. Prices for things can rise but that only increases cost.*
23. **(False)**. Labour income and/or welfare payments always suffice.
(True). *They do **not** suffice. Wide capital ownership – and its associated income – is necessary.*
24. **(False)**. Wide ownership is not necessary.
(True). *It IS necessary to spread productive capacity and associated purchasing power.*
25. **(False)**. It is not necessary for every person to have an independent income.
(True). *Untrue! Without independent incomes people are controlled by others.*
26. **(False)**. The level of interest rates is all that is necessary to manage an economy.
(True). *What matters is who or what creates the output and gets the ensuing benefit.*
27. **(False)**. Student loans must bear interest.
(True). *Why? The loans can originate from the national bank. The taxation system then collects repayment and so acts as collateral. The loans can, and should, be interest-free.*
28. **(False)**. Public capital projects should be funded by interest-bearing money.
(True). *Interest-free loans (from the national bank) halve, even quarter, the cost.*
29. **(False)**. Micro-credit borrowing should bear interest.
(True). *Why? Collateral, administration cost and repayment are required, but why interest?*
30. **(False)**. Environmental capital projects should bear interest.
(True). *No!*
31. **(False)**. An economy requires **two** lots of interest-bearing financing – one for production and one for consumption.
(True). *Not true. Only one lot of interest-free financing is necessary if it is simulfinancing as in Planetary Economics.*

On Planetary Paradigm

32. **(False)**. (Slogan) There Is No Such Thing As Society.

(True). *Why don't these people grow up?*

33. **(False)**. Personal, corporate and national interest-bearing debt is healthy for an economy.

(True). *Nonsense! Because of their need to repay interest, indebted people, corporations and nations have less purchasing power than those without debt.*

34. **(False)**. There is no power imbalance between actors (participants, including individuals) in an economy.

(True). *Whoever first thought of this has never lived an ordinary life e.g., the rich have collateral and can easily borrow cheaply whilst the poor do not have collateral and so must borrow at extortionate rates of interest. The reasons for power imbalance include:- lack of good education; lack of effective social networks; and unstable backgrounds.*

35. **(False)**. Social and economic justice on the one hand and economic efficiency on the other are incompatible.

(True). *Wrong! In the new economics the justice and economic efficiency create each other and are compatible.*

36. **(False)**. Economic history is irrelevant.

(True). *This arrogantly assumes, for example, that past crashes will never happen again....Madness!*

37. **(False)**. Economic theory (coming from Adam Smith, 1776) suffices to guide modern mainstream economic theory and practice.

(True). *Mainstream economic theory is outdated. Smith's theory was conceived before the Industrial Revolution substantially began.*

38. **(False)**. The important things in economics are anything **except** the development and spreading of productive capacity so as to ensure that producers and consumers are the same people thereby enabling a Say's Theorem balance of supply and demand and also enabling the forwarding of social and economic justice.

(True). *This is a huge untruth. For efficiency and justice the balance is essential.*

39. **(False)**. Commercial banks should be able to offer interest-bearing mortgages (as distinct from administering interest-free national bank mortgages).

(True). *The subject of housing finance needs to be reviewed.*

40. **(False)**. Economic inequality is desirable – the greater the ratio between top and bottom, the better.

(True). *Untrue! The rich do not (and cannot) spend all their money.*

41. **(False)**. 'Trickle down' economics works.

On Planetary Paradigm

(True). *NO! The rich are incapable of spending their money (even if they wanted to, which they do not) so they accumulate it as stagnant, not circulating, wealth..*

42. **(False).** Rising house and stock market prices indicate genuinely increased wealth.

(True). *No – these rising prices usually only reflect newly-created money being put into anything except the spreading of the real, productive economy.*

43. **(False).** Large economic cycles and crashes have been ended.

(True). *They have not been ended. They are inevitable with mainstream economics but not in the new economics.*

44. **(False).** Individual greed is good and institutionalised greed is even better.

(True). *This is an expression of Homo economicus. Homo co-operans is needed!*

45. **(False).** Countries should raise interest-bearing money on the international markets.

(True). *No. International interest-bearing debt cripples them forever and opens them to the expropriation of their assets.*

46. **(False).** Countries should not be independent – they should be controlled by others.

(True). *No! Colonisation must be ended,*

47. **(False).** A country's assets should be owned by outsiders.

(True). *This stops a nation's people owning their own assets and getting the benefits thereof.*

48. **(False).** A country's new money supply should originate in the commercial banking system rather than the national bank.

(True). *When it originates in the commercial banking system it is improperly applied and interest is added. The new money supply must originate from the national bank but can be administered by the private banking system charging a fair administration cost but no interest.*

49. **(False).** Employee shareholdings do not improve efficiency.

(True). *Wrong! They do.*

50. **(False).** Political democracy does not require Economic Democracy.

(True). *'Democracy' amounts to nothing unless the economic aspect is also considered.*

51. **(False).** There is a Time Value to borrowed money.

(True). *NO! Since the money is usually created out of nothing, it has no time value.*

52. **(False)**. Environmental matters are extraneous and impose unnecessary cost.
(True). *Good heavens! These madmen (they are usually men) are destroying the planet!*
53. **(False)**. Economics is a separate academic subject which needs not take account of other subjects.
(True). *Wrong! ALL subjects, to the greatest possible extent, must take account of all other subjects.*
54. **(False)**. Burgeoning population growth is inevitable.
(True). *It is not inevitable. When there is genuine economic security, education and health, population levels begin to moderate then decline. Moreover, because of technological advance, smaller populations do NOT necessarily have a diminished ability to create wealth.*
55. **(False)**. An understanding of technology is irrelevant to economics.
(True). *It is highly relevant.*
56. **(False)**. Jobs can be exported.
(True). *When exported, the spending power of the jobs is removed from the domestic economy.*
57. **(False)**. Domestic manufacturing does not matter.
(True). *It matters very much because it ensures local wealth creation and control. Local banking is also necessary.*
58. **(False)**. Education and training suffice for economic needs.
(True). *They do not and cannot suffice by themselves. Also necessary are wide capital ownership, access to interest-free capital credit, and freedom from usury.*
59. **(False)**. All the derivatives balance out to net zero.
(True). *But that forgets the fees taken out when a derivative contract is negotiated. Moreover, the financial failure of one organisation can lead to a domino collapse. Warren Buffett says that derivatives are “financial weapons of mass destruction”.*
60. (For good measure, here is an extra false assumption.)
(False). Every night, the global elite dream of serving the interests of everybody else and the world.
(True). *Er.... – No comment.*

Appendix Two

Areas for development

The *Planetary Paradigm* has areas needing development and everybody is invited to contribute their research.

For example:-

- relation to religions
- position of women
- micro credit
- education
- health
- environment and sun technology
- Economic Democracy
- Mondragon, Wider Share Ownership, New Municipalism
- capital projects – water and sewage in particular
- how power structures pervert accurate thought
- new methodology
- psychology and paradigm
- Say's Theorem
- voluntary stabilisation/reduction of population levels
- evolution of *Homo economicus* to become *Homo co-operans*
- reconsiderations in history
- implications for the arts
- detailed mechanisms for spreading capital ownership
- communal projects
- complementary currencies
- mainstream attempts to justify interest
- housing
- other false assumptions (the target is to find one hundred although there may be more!)

Appendix Three

Full payout of earnings

Readers may be surprised to learn that, in the *Planetary* economy, full payouts from the corporations are conservatively estimated to be *five to eight times* existing payouts.

Full payouts

On Planetary Paradigm

Louis Kelso & Patricia Hetter Kelso put the present yield of capital as 5 - 7%. The average is 6%. (Kelso & Kelso, 1990)

They then note that corporations retain between half and three quarters of their net after-tax earnings.

However, in the *Planetary* economy, with exception of reserves for research and depreciation, **ALL earnings would have to be paid out.**

Removal of taxes

Then, taking the typical American corporation, the Kelsos propose the removal of:-

- federal income tax
- state corporate tax
- employer's share of Social Security
- municipal corporate income taxes

At a very conservative estimate this would **double** the yield.

NB. The Kelsos note that half of the federal and state income taxes and all the employers' share of Social Security are levied for welfare benefits (which would be generally unnecessary in the *Planetary* economy).

Full payouts plus removal of taxes

The Kelsos say that full payouts plus removal of taxes would increase the earnings of capital by a factor of **4 to 6 times** (average 5).

Substantial non-quantifiable factors

Although some things may not be precisely quantifiable, it would be intellectually dishonest to omit them from the calculation. As can be seen below, they have a huge potential for massively increasing payouts.

These substantial non-quantifiable factors include:-

i) Overall inefficiency

Finance capitalism does **NOT** ensure that producers and consumers are the same people i.e., those who do the production are, at the same time, the consumers. This breaches the basic free market principle for the efficient creation of wealth.

The breach happens particularly because of the myth of the continually rising productivity of labour rather than the continually rising productiveness of planetary capital instruments and the technology embodied within. This causes emphasis on jobs rather than the implementation of technology which greatly enhances productive efficiency.

ii) Work practices and rules preventing the efficient use of new technology

There are many possible examples but an obvious one is a **40** hour factory working week which could change to a **168** hour factory working week. Modern technology does not require sleep and rest.

On Planetary Paradigm

Worker-owners with a stake in the productive efficiency of a factory (particularly if they are paid more AND have consistent, rather than arbitrary, shifts so that bio-rhythms are not continually disrupted) are likely to support the 168 hour week.

iii) Employee time-theft

Those who do not own often have little incentive to use their work time in a full and efficient way.

iv) Pilfering, even sabotage

When feeling unfairly treated (or just feeling capital-less), those who do not own may be tempted to pilfer or even cause sabotage.

The Kelsos say that i) to iv) above would increase earnings several times over.

The overall conclusion of the Kelsos is that the *Planetary* yield of capital would be about **ten times** the present yield.

Thus **five to eight** times is being conservative.

Appendix Four

Hymn of Praise – *Our Sacred Grove*

/ = accentuate the next syllable

*/ This Grove's a place where we come to repair
Our / selves and our world when they're wrong
By / choring loud in a beautiful song
/ This Grove's a place for repair*

*We / tend it yet leave it alone by itself
We / honour its quirks and its whims
We / give it a name – Yes! – it's Our Sacred Grove
We / tend it yet leave it alone*

*/ When we are faced by deep suff'ring or pain
/ And when they happen again
/ Then we can come to a quiet Sacred Grove
/ When we are faced by deep pain*

(In season) **Spring**

*/ Life starts anew on the first day of Spring
The / sap rises fresh from the ground
/ Movement's afoot throughout Our Sacred Grove
/ Life starts anew in the Spring*

(In season) **Summer**

/ Summer is when a great harvest is done

On Planetary Paradigm

*It / sets up the stores for a year
/ And best of all is Our Beautiful Grove
/ Summer is when much is done*

*(In season) **Autumn**
/ When Autumn comes and the leaves start to fall
It's / time to reflect on a time
Of / mellowing forms and migration of birds
/ When Autumn comes in the Fall*

*(In season) **Winter**
/ When days are short and the nights are so long
/ That is the time to have dreams
Of / quickening Life in the quiet Sacred Grove
/ When days are short and nights long*

*/ This Grove's a place where we come to repair
Our / selves and our world when they're wrong
By / chorusing loud in a beautiful song
/ This Grove's a place for repair*

*/ Glory to God and all things on our Earth
The / fish butterflies and tall trees
/ May we live long as our quiet Sacred Grove
/ Glory to God and our Earth*

Appendix Five

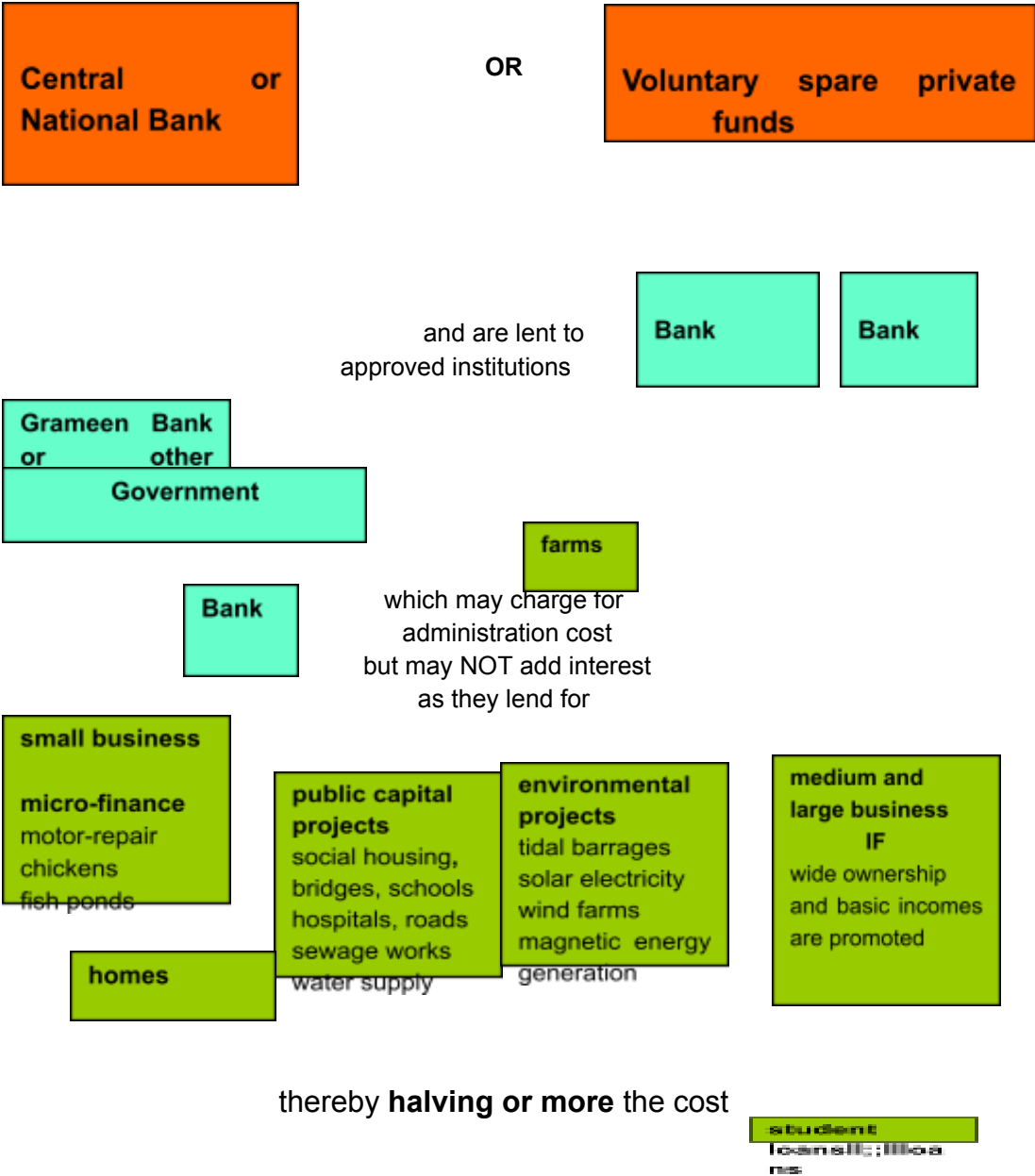
Visual summary of practical applications

A gradual rise to a 100% banking reserves requirement stops the banking system from creating money out of nothing. Banks may lend their own money or that of depositors (with permission) and such lending may be at interest.

An interest-free loan money supply then comes from the national bank. It is administered by the commercial banks (charging only a fair administration cost – ½%) for the purposes only of the real economy and, in particular, the spreading of the real economy, over time, on true market principles, to every person in society. In this way producers and consumers become the same people (as is required by true market theory – Say's Theorem) and there is a genuine balance of supply and demand – www.binaryeconomics.net

A gradual rise to 100% banking reserves requirement stops the banking system from creating money out of nothing

Interest-free loans for productive purposes then come from



The Planetary Paradigm spreads ownership

NB. Private house loans only 80% of valuation; criminal penalties for falsified valuations etc.

About the author



Rodney Shakespeare taught in UK schools and colleges for thirteen years. Then for ten years he was Visiting Professor of Binary Economics (holding the only academic post in the subject in the world) at Trisakti University, Jakarta where he taught on the International Postgraduate Islamic Economics and Finance program.

Binary Economics is a new paradigm economics which, among other things, addresses the technological shift now smashing out traditional well-paid jobs (and substituting insecure, low-paid ones). It upholds democratic *economic* (as well as the usual political) rights by ensuring that every individual has ownership of capital and, consequently, the associated capital income. As a new, major paradigm (but with roots in the 1950s), Binary Economics could not be understood (and thus taught) in the UK.

Rodney is a Cambridge MA, a qualified UK Barrister, and a well-known paper presenter and lecturer particularly at conferences dealing with money, the real economy, and social and economic justice.

Co-founder of the Global Justice Movement www.globaljusticemovement.net he is the author of <http://www.binaryeconomics.net>, www.sunparadigm.org and www.binaryparadigm.org

In 2000 he received the (Martin Luther) King-Kelso Award. He has broadcast with various TV stations.

Rodney's first co-authored book on Binary Economics (*The Two-factor Nation*) was published in 1976. He is co-author of the standard textbook on Binary Economics (*Binary Economics – the new paradigm*, 1999) and also co-author of the subsequent *Seven Steps to Justice* (2002) which further develops Binary thinking. He is author of *The Modern Universal Paradigm* (2007) containing later developments in particular relating to paradigmatic understanding and the appeal of Binary Economics to people of faith and of good faith and, in 2019, he wrote *The Prophet Vindicated (P.B.U.H.)*. *A New Paradigm Response* was published in 2022. Two more books – *On Planetary Paradigm* and *On Planetary Oneness Paradigm* – are in preparation.

Rodney is a widower with two children and two grandchildren. He is a private tutor and Chair of the Committee Against Torture in Bahrain.

Due to an accident he has impaired hearing.

Believing that children need a pleasant way to understand life and its purpose he has composed many beautiful songs. <https://songsforschools.org/>

References

- Air Force, 2003.
<https://www.af.mil/News/Article-Display/Article/139563/pentagon-revises-smallpox-vaccination-policy/>
- Anjum, M., *A.I.D.S. – Accumulated International Debt Syndrome (in all developing countries)*, 2004.
- Ashford, R. & Shakespeare, R., *Binary Economics – the new paradigm*, 1999.
Aspen Times, 15th August, 2011.
- Bank. [Bank of England](#) speech, 2012.
- Bible, *Genesis* 1:28.
- Blake, J. & Gilman, N., *Children of a Modest Star*, 2024.
- Buckland, W., *Bridgewater Treatise*, 1836.
- Carlyle, T., *On Heroes, Hero-Worship and the Heroic in History*, 1841.
- Chicago, 1992. Chicago Federal Reserve Bank, *Modern Money Mechanics – a Workbook on Bank Reserves and Deposit Expansion*, 1992.
- Choudhury, M. A., *The Islamic World-System*, 2004.
- Choudhury, M. A., *The Universal Paradigm and the Islamic World-System*, 2007.
- Club of Rome, *The Limits to Growth*, 1972.
- Consortium News.
<https://consortiumnews.com/2022/11/08/oxfam-sizes-up-a-single-billionaires-investment-emissions/>
- Copernicus, *On the Revolutions of the Spheres*, 1543.
- Darwin, C., *On the Origin of Species*, 1859.
- Ehrlich, P., *The Population Bomb*, 1968.
- el-Diwany, T., *The Problem with Interest*, 2003.
- Federal Reserve Bank of Chicago, *Modern Money Mechanics – a Workbook on Bank Reserves and Deposit Expansion*, 1992.
- Fukuyama, F., *The End of History?* 1989.
- Fuller, B., *Operating manual for spaceship earth*, 1968.
- Fuller, B., *Critical Path*, 1981.
- Fukuyama, F., *The End of History?* 1989.
- Galbraith, J.K., *Money: Whence it came, where it went*, 1975.
- Galileo, *Dialogue Concerning the Two Chief World Systems*, 1632.
- Gates
<https://www.theguardian.com/commentisfree/2021/apr/05/bill-gates-climate-crisis-farmland> <https://www.youtube.com/watch?v=pJzbdchQ4-A>
- Georgia https://en.wikipedia.org/wiki/Georgia_Guidestones
Global Research, 8th May, 2022.
- Harari. Y. N., <https://www.youtube.com/watch?v=w7DohVZS5Yo>
<https://www.youtube.com/watch?v=OMDIifNWM1fA>
<https://www.youtube.com/watch?v=YrK8c3L3AKw>

Humber

Bridge

<https://www.humberbridge.co.uk/wp-content/uploads/2019/08/HUMBER-BRIDGE-B OARD-ACCOUNTS-FINAL-1718.pdf>

Kelso L., & Kelso P., *Democracy and Economic Power*, 1990.

Kennedy, M., *Interest and Inflation-Free Money*, 1995.

Korten, D., *When Corporations Rule the World*, 2001.

Kuhn, T., *The Structure of Scientific Revolutions*, 1962.

Kurland et al. Kurland, N., Brohawn, D. & Greaney, M., *Capital Homesteading*, 2005.

Lietaer, B., *The Future of Money*, 2001.

Locke, J., [Two Treatises of Government](#), 1689.

Lyell, C., *Principles of Geology*, 1833.

Mahathir, M., (former Prime Minister of Malaysia), at *New World Order Conference*, Putrajaya, 2015. https://www.youtube.com/watch?v=hQW7W2O_7jI

Malthus, T., *Essay on the Principle of Population*, 1798.

McLeat et al. McLeay M., Amar Radia A. & Ryland Thomas R., *Money creation in the modern economy*. Bank of England *Quarterly Bulletin* 2014, Q1.

Meera, K. & Larbini, M.. *Seignorage of Fiat Money and the Maqasid al-Shariah: the Compatibility of the Gold Dinar with the Maqasid*, in *Harmonising Development and Financial Instruments by Shariah Rules for Ummatic Integration*, 2004.

Mill, J. S., *Political Economy*, 1836.

Newton, I., *Principia*, 1687.

Nissani, M., *The Plight of the Obscure Innovator in Science*, 1995.

Obasanjo, 2000. [Jubilee 2000 news update. 18 August 2000](#)

Oxfam Report, 2018.

Oxfam Report, 2019.

Oxfam Report, 2020.

Oxfam Report, 2022.

Palley, T., *Financialization: What It Is and Why It Matters*, 2007.

Pentagon, 2022. *Pentagon Fact Sheet on WMD Threat Reduction Efforts with Ukraine, Russia and Other Former Soviet Union Countries*, June 9, 2022. <https://www.defense.gov/News/Releases/Release/Article/3057517/fact-sheet-on-wmd-threat-reduction-efforts-with-ukraine-russia-and-other-former/>

Piketty, T., [Capital in the Twenty-First Century](#), 2013.

Planck, M., *Scientific Autobiography and Other Papers*, 1949.

Plastics

<https://passportocean.com/2019/05/08/facts-water-pollution/#:~:text=Fact%20%20%3A%20Water%20pollution%20kills%20around%2010%2C000,plastic%2C%20is%20dumped%20into%20the%20ocean%20every%20year>

Pope, A., *Epitaph: Intended for Sir Isaac Newton*, c. 1727.

Population https://en.wikipedia.org/wiki/Human_population_projections

Rousseau, J-J., *Social Contract*, 1762.

Rupee News, 14th May, 2010.

On Planetary Paradigm

Say, J-B, *Treatise on Political Economy; or The Production, Distribution, and Consumption of Wealth*, 1803.

Schwab, K.,
<https://www.breitbart.com/europe/2022/05/24/watch-klaus-schwab-lauds-davos-elites-the-future-is-built-by-us/>

Shakespeare, R. & Challen, P., *Seven Steps to Justice*, 2002.

Shakespeare, R., *The Modern Universal Paradigm*, 2007.

Shiva, V.,
<https://regenerationinternational.org/2021/04/05/vandana-shiva-bill-gates-empires-must-be-dismantled/>

Smith, A., *The Wealth of Nations*, 1776.

Smith, A., *Theory of Moral Sentiments*, 1759.

Solo, R., *The Philosophy of Science and Economics*, 1991.

Spenser, H., *Principles of Biology*, 1864.

Standing, G., *The Precariat: The New Dangerous Class*, 2011.

Statista

<https://www.statista.com/chart/10569/number-of-earths-needed-if-the-worlds-population-lived-like-following-countries/>

Swanigan, P., *It's Time To Give Up Hope For A Better Climate & Get Heroic*, 2024.

Tawney, R.H., *Religion and the Rise of Capitalism*, 1926.

Tennyson, A., *In Memoriam A.H.H.*, 1850.

Vitali et al. <http://gesd.free.fr/net737.pdf>

Voltaire, *Candide*, 1759.

Water.

<https://www.theworldcounts.com/challenges/planet-earth/freshwater/deaths-from-dirty-water/story#:~:text=Dirty%20water%20causes%20the%20death%20of%20a%20human,equivalent%20to%20a%20jumbo%20jet%20crashing%20every%20hour>

Wegener, A., *The Origin of Continents and Oceans*, 1915.

World Economic Forum. **You'll Own Nothing and Be Happy** is part of a video – 8 *Predictions for the World in 2030* – produced by the World Economic Forum.

Wuhan.

<https://www.ibtimes.sg/wuhan-lab-got-patents-bat-cages-keep-animals-conduct-experiments-months-before-pandemic-report-55572#:~:text=Wuhan%20lab%20was%20awarded%20patent%20for%20live%20bat,clinical%20symptoms%20and%20the%20mechanism%20is%20not%20known>