

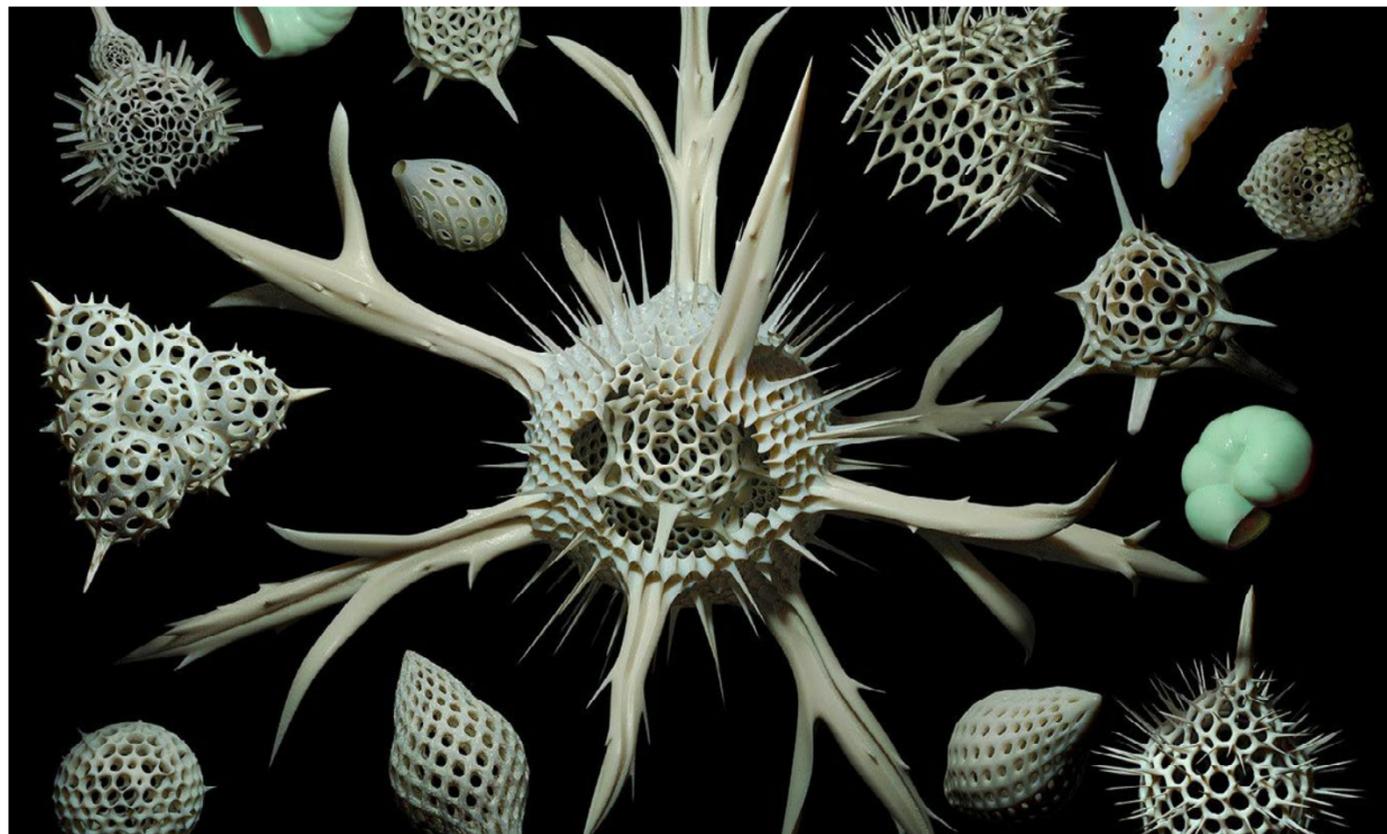
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**DEVELOPMENT**

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## Development

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## The Emergence of the Wholly New I

And the Necessary Means of  
Maintaining the Best of It!

The initial conceptions by Human Beings, as with all the other simultaneously-existing living-creatures, assumed the Constancy of their Common World - and this initial assumption, in the Sole Case of Mankind alone, was then increasingly challenged, by their own, if initially meagre, successes in dealing with that World.

Now, such real developments, that were achieved, did not ever come easily, so there was nothing automatic about our progression. Indeed, it was also clear that they were difficult to “get right”, and Reality-as-is, was also definitely composed of multiple features, some of which seemed Contradictory, with the possibility of introducing Novelties, which, when they did emerge, were immediately countered by much stronger and already well-established factors, naturally brought to bear to counter all minor variations.

Indeed, the very Strategies of Mankind, even with their emerging successes, were initially totally dominated by their profuse failures, and a common animosity within the majority of processes present, to limit anything even attempting significant change.

Things developed incredibly slowly for literally millions of years. In fact, for enormous periods of Time, so, the main developments that did occur, were in how Human Beings knapped Flint - a hard-but-brittle stone, that, alone gave Man a Cutting Edge!

Indeed, those built-in opponents to innovation seemed almost universally dominant. But, in fact, that evident imposed Stability was caused by the same forces that also made changes possible.

A Contradictory but True Situation!

And, this was because the actual forces producing that Apparent Stability, were many-and-varied: indeed, most were usually contending with one another, and in a relatively-unchanging overall situation, actually settled into an Steadfast Balance of Present Contentions, which naturally-self-adjusted to maintain the Balance - so, in order to attain a lasting change, a whole particular set of changes, as well as continuing to maintaining them all, would be necessary too.

And, this was never initially understood as such, but finally merely arrived-at, over time, by means of the necessary extra changes carried out unconsciously, or implemented for quite different reasons, those that they actually positively contributed to.

NOTE: Why do you think early experimenters included magical substances and rituals into those Experiments and later Production Systems, in order to make their changes work? The problem, still dominating today, throughout all such Research and consequent Production, was due entirely to incorrect assumptions of Plurality.





For, the only way that these could ever work, was because of the Universally agreed ways of dealing with such relations, which would only ever work-as-such, if-and-only-if, the Contents were drastically reduced, and the circumstances were also totally maintained within such narrow limits - that the environment became-instead Strictly Pluralist instead of its Natural Holistic State, and could, therefore, only deliver the forever Fixed Laws, that were NEVER associated with Reality-as-is, but only within a totally and artificially-maintained Pluralistic conditions!

Of course, there were good pragmatic reasons for doing so, as the primary purposes were always to *use* what was involved to some pragmatic end: and production was always effectively delivered by such means.

But, they didn't help an Understanding of the Natural World - nor did it enable the sound development of Scientific Theory, which undoubtedly required the relations between aspects of Reality-as-is.

It was alternatively just a set of appropriate, yet wholly individual Technological Recipes - each and every one, solely limited to its own special Pluralist Context, to always deliver the same results! So, as the necessary wherewithall to achieve an extended set of desired results, it was adequate to the users requirements pragmatically: but it didn't, and indeed couldn't deliver a Coherent Overall Explanatory System!

But, the remarkable gains of the Greek Intellectual Revolution of the 5th century BC, achieved for the very first time, a seemingly "Integrated Intellectual System" of ideas that could be used to relate the many individual processes involved both Theoretically and Practically.

But it didn't do so, as it was hoped: because every single productive process involved in delivering anything at all, would require very different conditions at every single step in the required processes - to ensure the individual components would be exactly as required, and consistent with any Formulae governing each and every step.

To achieve this overall result, every single step would be entirely different, involving very different contents, processes and tailor-made machines to achieve what was needed, and each embodied within its own Mathematical Formula relating the different components involved.

BUT, apart from their use within each step, substitutions between the variables in all those different steps would also be made, as a Supposed Short Cut to a Possible Overall Theory. But, that would be wholly illegitimate!

Relating the same variables from their own very different contexts wrongly assumes that they have properties wholly independent of their current contexts: and that is incorrect! For Plurality has been forced onto all variables as their Natural Fixed States: and states which they are all supposed to have totally independent of their contexts! [So all the manipulations that Leonard Susskind fills his boards with in the citadels of American Higher Education are illegitimate Rubbish!]

Now, of course, that wasn't all... The Consensus in all the Sciences, ever since the Greek Intellectual Revolution, had taken its remarkable developments in Geometry, which, as a purely Formally-related set of Figures, which had also managed to develop them into a wholly consistent System via a series of Theorems and their Proofs, finally into what became Euclidian Geometry - thus delivering an appropriate and useable coherent system of Formal Relations, which turned out to be both truly revolutionary and sound, in that particular sphere. But, they were also illegitimately-extended into related areas in The Sciences, and in General Logic too!

Now, this was wholly inappropriate, as literally all of these areas were NOT limited to the same purely Formal relations alone (as Geometry most certainly had been): So, in order to be approximate to a similar set of Contexts, they were all similarly severely limited to the Contexts they were conceptually allowed, and also, in consequence, their lack of variability - which was absolutely vital, to make the now universally-lauded Mathematical Rationality continue to fit, what was thereafter wrongly allowed to happen.

Indeed, the overall affects, particularly in the Sciences, were Totally Devastating: For, in order to make any sense and, indeed, work at all, Contexts of ALL Scientific Experiments, and Subsequent Productions too, simply had to be wholly constrained to only allow the mathematical relations employed to even FIT the actual circumstances necessarily rigidly maintained there.

A completely Man-made parallel World was essential to allow any effective interventions by Mankind!

Now this was ultimately fully achieved in the Factories of Earth, BUT how would they cope in the Rest of Space - both theoretically and pragmatically?

They would have to take their assumed conditions with them! As well as all their required Sustinences and Materials they replicated the necessary conditions for them to survive.

There is NO Utopia out there!

So, if the Increasing Crises on Earth are NOT Solved, Mankind will ultimately cease to survive, period!

Now, this seemingly hopeless intellectual cul-de-sac is caused by the total reliance of Science upon the debilitating weaknesses of Mathematical Rationality upon Reality-as-is via the traditional approaches to literally All the Sciences, and unless, and until, that limitation is validly transcended Absolutely No Solutions will be possible!

Now, way back in History, at same time as the Greek Intellectual Revolution which led to these problems in the Sciences, a contrasting alternative was simultaneously being developed in India, by the reknowned Thinker they called The Buddha.

For, he was well aware that many different relations were almost always simultaneously-in-action, literally everywhere: and these were often Directly Contending one another, while, at the same time, were all continuously varying in their contributions!

He struggled with the problems that this inevitably caused, and could never bring them together into an always predictable "Next Step". So, he began to cycle-around different component subsets of separate processes, to monitor their overall and final effects! But, they NEVER resulted in a graduated range of results, but instead flipped-between several seemingly unrelated results.

His strategy was to do this cycling-around several times, overall looking for the Commonest Result. Then on going from one-to-the next such anomaly, and then, thereafter returning to the initial one, once again to repeat the whole proces. He was able to decide upon the best route to take as the most likely to recur.

He then descibed this overall method, in his Loka Suttas, and used his best results as dependable advice to the leaders, who consulted him. He was gradually very greatly revered, for this kind of Wisdom, but, of course, he wasn't always right! What he suggested turned out over time to be the best availabled at that time.

And, in contrasting such advice with that delivered by scientists, it was crystal clear that they were talking about very different situations! The scientists were limiting the situation addressed to a specific, tightly controlled case: whereas The Buddha was giving his advice based upon a larger varying Reality-as-is, which is always definitely Holistic, whereas the scientist with their Mathematical Rationality was imposing a Strictly Pluralistic Stance in his Reasoning! So The Buddha considered a range of possibilities, wheras the scientist would be dealing ONLY with the best possible case logically, which was not necessarily naturally available.

Instead, Science can never deal with Reality-as-is, unless it is completely and reliably defined, and that, of course, is almost never the Problem Case!

But, there is another approach which addresses such difficult cases, which can only be successful if absolutely everything is known about, BUT now can be considered in a wholly new way, which also takes into account all relevant aspects of the problem, but in a different way to that of the Buddha.

And researches by the writer of this paper over the last year has finally begun to reveal what I call The Systems Approach!

And, it is based upon the unavoidable concept of a significant number of multiple-often-contending-contributions to literally all Natural Phenomena, but also, and for the first time, tackling the seemingly insurmountable problems, via the features present that can deliver Temporary, if often involving long-lasting Stabilities, where the multiplicity of contributions can deliver a Naturally Self-Maintaining Situation, from which real solutions nevertheless may well be entirely possible.

Indeed, the very first suggestions over two millennia ago, by the Greek Zeno of Elea, who in the Study of Movement, in his work called Paradoxes, seemed to make complex situations unaccountably Stable! And

which, in his thinking, unexpectedly delivered on-going stabilities that otherwise seemed impossible.

They occurred, primarily, in relation to simultaneously-applicable Diametrical Opposites, which, as well as causing flips between those Opposites, could also, it was much later found, in addition, cause an exact-and-complete cancelling-out of Both-of-Them, when their overall presence was exactly both Equal-and-Opposite!

Indeed, instead of either One Effect or its exact Opposite, what occurred was a complete-and-total absence of BOTH! And these occurences effectively acted as Full Stops to any usually on-going sequences of consequent Processes. Certain sequences were terminated!

And with the sufficient presence of enough of the right kind of such terminators, seemingly unexpected Maintained Overall Balances began to occur, which could both deliver and consistently maintain such Balance for some sibnificant time! But, exactly what was then missing would, thereafter, be impossible to discern, by any known methods: how could you know what had been there and was now missing?

But clearly, something was maintaining a Balance, leaving all other variations to-merely-cycle-around the same truncated now available changes, until that Balance was, somehow, removed!

And, most interesting of all was that such occurrences were most probably, also connected, if conditions sufficed, to cause the First occurrences of Wholly NEW Phenomena: for these, most definitely DO OCCUR, though never-explicable by Normal Logic, so any explanation of them in terms of the Known Contributors, would naturally be impossible to deliver... But, it does most certainly happen!





And Holism is the Real Key to Understanding Reality-as-is, as distinct from an always “straight-jacketed version” of Reality, as delivered by Pluralist farming! But, in attempting to deal with a Truly Holistic World, Mankind effectively opened up a whole can of worms: for instead of the always Single and Fixed Laws of purposely constrained situations, Mankind was now unavoidably confronted with situations containing a multiplicity of simultaneous, and often contending, sets of Laws - all of which could be varying at their own very different caused rates.

Despite the difficulty (and perhaps the lack of immediate practical application) we must keep trying - Holism being the only possible route to all Qualitative Changes, and most perplexing of all, being the only (if rare) route to the Wholly New!

Yet such a “Chaotic Seeming Mess”, actually delivers the everywhere-present Reality-as-is, which drives Absolutely Everything!

So if it is such a chaotic mess, why is that Reality so confusingly “Stable”?

And what is delivering these odd appearances?

Indeed, you can see why Mankind mistakenly thought that they were revealing *Underlying* Stable Laws within their Pluralist Methods! Whereas what they were doing was imposing a very different, and wholly Artificial Stability, which, if they maintained it throughout their manipulations, always gave an apparently stable result, but very differently, and misleadingly achieved than we believed.

Something very different was required when dealing with Real Content of all Natural Things - Holism! Yet, we regularly make the same incorrect assumptions, especially when it is The Whole Environment that is Steadfastly Holistic!

We cannot control the Air through which an Aeroplane is passing - or the Sea through which an ocean-going ship is ploughing - but we design them to survive in such natural circumstances! We design things to survive the whole range of known possibilities.

Clearly, the major Problem was that Holistic Reality-as-is did NOT have a Single Universal Mode, as was the case in Man-devised Plurality!

And, this was because it could never be restricted to a Single Law within Holism, as it was always due to an extended set of multiple, simultaneous and often contending Laws, which were also never totally independent of one another, and would have diverse overall Effects in different circumstances, some of which were hard to discern, while others precipitated truly dramatic and sudden Qualitative Changes!

And, this unavoidable variability contradicted the basic assumptions underlying the well-established Western Approach to Explanation.

In contrast to Western Philosophy and Science, The Buddha was always clearly aware of the simultaneous multiplicity of many different Laws, in Nature, and, therefore, always insisted upon many limited-but-repeated *Cycles* of the same steps - several times, to reveal different preponderances, and hence suggesting the best overall decisions to be consequently used. They were not, by any means, always right, but were much better conclusions than were achieved with the Western Alternative, when dealing with Reality-as-is.

But Artisans had already been overcoming these difficulties for millennia By-Controlling-the-Environments of the necessary Processes! And, in the West, this alternative was generalised as THE MEANS of effectively revealing any actually underlying Law, which in Reality-as-is, were hidden by that multiplicity of confusing and unwanted others!

But, this of course meant that Reality-as-is ceased to be studied as such, and was generally replaced by the Western Approach!

But this also meant that Wisdom about the World-as-it-is, was neglected in preference to a definitely-useable Technological Approach- in controlled Contexts!

The Natural Dynamics of Reality was just “noted” - but never actually explained: they were merely inserted, without explanation, when-and-where they seemed to occur!

[This is reflected in the “If / Then” insertions in Computer Programs, which merely signal exactly when a Change occurs, and describes it, but doesn’t ever explain *why* it occurs, only when the necessary threshold is passed.]

Notice that any other caused consequences don’t need a threshold, which infers that the participants in those changes only require their simultaneous presences of their respective contributions to deliver their effects! But, generally, in the descriptive statements describing the situations Effects, and Causal Explanations don’t seem to be necessary - so what actually happens-in-detail is not described dynamically, but only as a result!

But, in the Subject called Physics, for most of its History, it was considered as a Subject wherein the Natural Causalities of physical changes were never attempted to be explained. Yet, nevertheless, throughout my School Career, I always considered that it, more than any other subject, attempted to give an adequate account of Reality and how it works. I was, while at School, particularly good at Mathematics, and originally expected it to ultimately explain the World, but it never did, and I switched to Physics as my primary Subject when I got into University!

I was almost immediately disappointed on commencing my chosen Degree Course at University, at my lecturers evident switch from Causality to Mathematics, as their chosen way forwards.

Evidently, the way that Reality had been studied-and-represented was was now failing badly, all over the place, and, of course, the one dependable Discipline, which could always be made-to-fit had for millennia been Mathematics! The limited area that was always kept to, was ideal for keeping the subject upon the “straight-and-narrow”, and always finding technical solutions. So this chose itself as the place to proceed, NOT because it reflected Reality-as-is, BUT, because, in its limited Pluralist Realm, solutions were always possible!

And, in addition, the Technological Tail was again allowed to Wag-the-Dog, replacing Causal Explanations with Effective and Reliable Use!

So, situations were produced and maintained - so that they would always remain true to their Mathematical and hence wholly Pluralist Descriptions.

Causality was increasingly abandoned!

Physics ceased to address Reality-as-is!

BUT, and it is an enormously big BUT - that was not all that was very wrong!

By far the biggest problem was that the resultant Discipline had not only to include those things on Earth that were under Man’s hand, and hence could be so controlled, but must also include the enormity of Space Itself, and all of its contents, which alone are also required to explain literally All Origins, that the proposed current explanations most certainly couldn’t deliver.

NOTE: Interestingly, as soon as Reality-as-is is allowed to include Real Creative Development including the always totally impossible Prediction of the Wholly New: it necessarily means that such Innovations will always be impossible to define before they First Occur! Such a System is potentially infinite in its possibilities.

For example, how could the emergence of Thinking Human Beings be predicted from the first ever appearance of a Star?

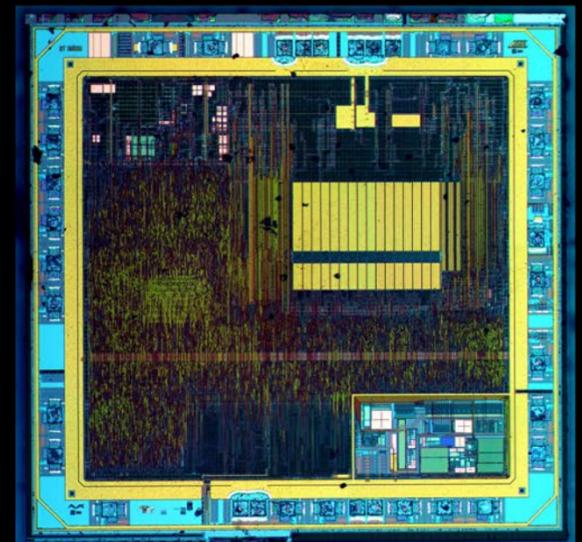
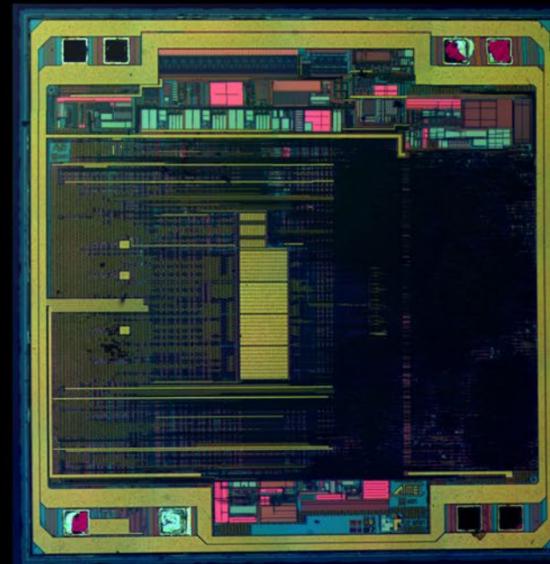
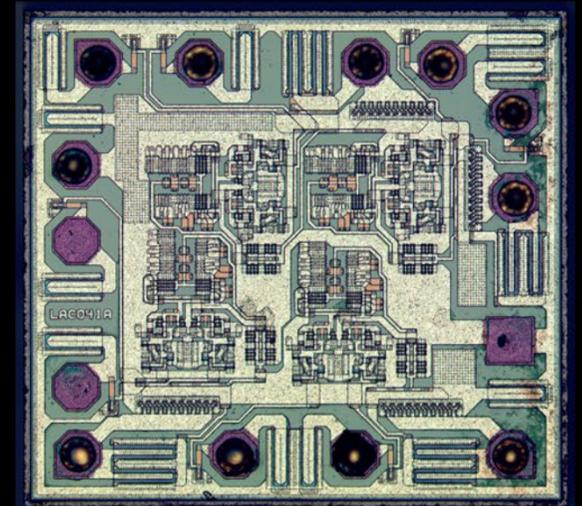
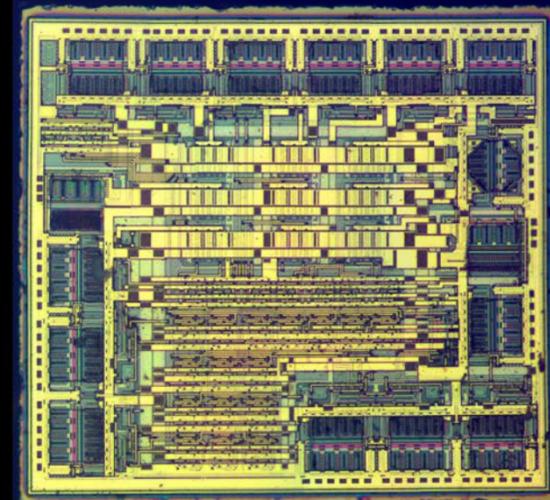
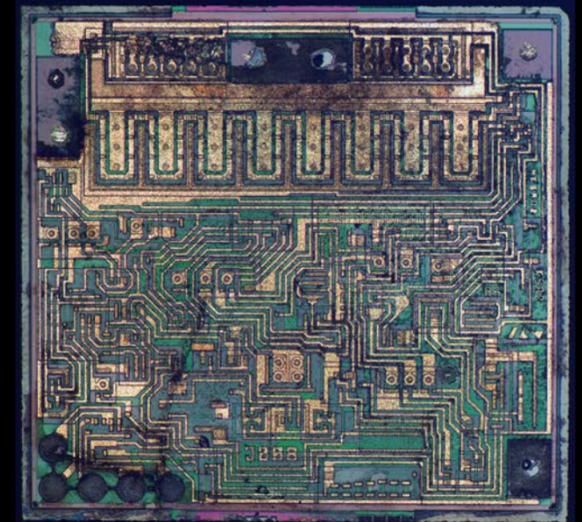
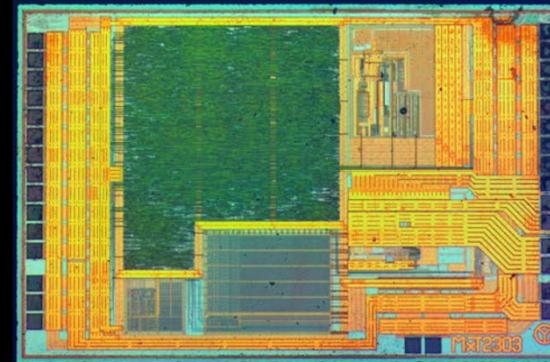
Clearly we are NOT dealing with anything limited in its ultimate possibilities: it doesn’t expand to fill a known possibility space, but on the contrary, because of its diversity, it is always producing the wholly New - and its potentialities, which never seem to run out of possibilities!

The System is constantly producing its own potentialities!

So we must attempt to conceive of such Systems, in arriving at what is in action generating its own future of incessant novelty!

If we are to attempt the seemingly impossible task of explaining Reality-as-is, we will have to constantly attempt to approach it via literally constant reference to that infinite Development: and begin the process by attempting step-by-step to these remarkable turning point from what initially appears to be “unchangingly simple”. But, at every one of these Key Events opens up wholly new vistas of possibilities.

The obvious first step must certainly be to investigate the emergence of complexity from what seems to be a



## The Emergence of the Wholly New III

And the Necessary Means of Maintaining the Best of It!

restricting Simplicity, which, as it turns out, is never the case in Reality-as-is!

Clearly we are so preconditioned by the slow tempos of change within most natural situations in our World, that we arrive at limited definitions that would ONLY deliver things as we currently see it: which is certainly not what is actually driving it.

We impose the limitations upon it an attempt to explain what we currently experience.

But it isn't the case at all!

We have somehow to define basic units that under changed conditions, begin to deliver New Features! It could well be that our initially assumed context is Entirely Empty of Everything - so-called Empty Space: and it never is!

They may very well be something there - either material or some kind of Field, which is close to being otherwise Empty, and needs changes there to precipitate changes that are more clearly evident!

The most likely could be an underlying Substrate of currently tiny, and as yet undetectable particles: or even an influx from elsewhere that changes the possibilities, though clearly awaiting a means of detecting such things, which may mean never finding out directly!

So perhaps indirect methods using things that can be detected might be the only way to success.

Now, as was inferred, at the close of the immediately prior paper in this series, we might well have truly major difficulties in proceeding further (a problem which Mankind has encountered many times in their efforts to Understand Reality). But, such things usually indicate the inadequacies of our current methods, and, so far, all such problems were ultimately overcome.

But, here we are encountering a very different difficulty! For here, for the first time ever, we can no longer simply in the usual Pluralist Ways, and treat all simultaneously-acting-Laws wholly separately, as well as treating them as completely independent of one another!

Simultaneously acting Laws DO INDEED affect-one-another, and the Wholly New Systems Approach will be necessary to reveal what really happens!

Now, it has taken this investigator some considerable time to reach this point, because many totally wrong simplifications to the actual happenings had been well embedded into Mankind's Practice for many millennia, which only allowed their successful, wholly pragmatic simplifications to make our carefully arranged interventions both possible and effective.

So, it was the artisans, the farmers, fishermen and herdsman, along with later craftsmen, builders and technicians, who learned to turn situations into the ideal states for making things progress in an advantageous way. Clearly, Reality-as-is was far too various-and-changeable to be used "as is"! So, wherever possible, Reality was changed, or was held still, to facilitate only certain kinds of changes in line with Mankind's objectives.

Indeed they controlled a situation sufficiently-and-appropriately to enable useful changes to its contents to be achieved!

To begin with, they chose Dead wood and Stones to use "as is". But also, on discovering brittle-but-hard Flint, and how to Knap it to give it a very sharp cutting edge, they then had a valuable Tool with which to easily re-shape certain substances, or even equip them with a weapon for hunting!

I could go on with this line of developments, which ultimately also involved the control of Fire, but, I think the important points have been made! And Mankind was NOT learning to Understand Reality-as-is, but merely to use it in various ways, where they could!

Now such an approach could never reveal the actual Processes of Reality-as-is: it was only a minimally-effective intervention upon a limited number of fronts.

There was no Single Development of Understanding applicable absolutely Everywhere! So, all techniques were limited to their appropriate and limited Contexts: they thus seemed to form different collections applicable in different maintained Contexts! None of which revealed the actual real Nature of Reality, which undoubtedly involved many very different processes all acting simultaneously, and also, one would guess, thereby unavoidably affecting one another.

Such scenarios were, even so, NEVER addressed as such: so that their mutual interactions were always ignored, or, at present, avoided altogether.



The trick was to keep everything as simple as possible!

And, consequently, all such Contexts were, necessarily, only treated in an entirely Pluralistic Way - governed ONLY by Fixed Laws alone. They were NO LONGER Reality-as-is!

So, in attempting to correct this situation, we must try to reveal the real situations - based upon multiple simultaneously active relations, and primarily, at least, reveal the overall effects, particularly due to the combined effects of several simultaneous processes, and how, consequently, that whole mix may be made to vary in all its parts!

For, the evidence, so far, is that the rarer processes within such a mix are very likely indeed to diminish in their overall presence, actually homogenising a dominant process, as ultimately finally acting alone! And, if true this will change what happens, AND must be qualitatively explained.

In addition, the simultaneous presence of exactly Diametrically Opposite Processes, can not only flip between the dominances of the individual Opposites, but can also in certain cases lead to a resultant Zero Effect - a total Cancelling Out, and hence the consequent surprising totally-terminating of all effects, compared with when following situations were also active simultaneously with many others.

Indeed, rather than a multiple set of simultaneous actions, as is usually just seen as them being independent of one another, it is also likely that they would sometimes form Chains of Consequent Processes, where the output from one process could be the necessary resource for another. Clearly our usual way of dealing with Reality, in fact, constructs an inaccurate simplification, which omits most of what is going on.

You can see why investigations, observations and even Experiments are purposely restricted to as simple a situation possible, in order to reveal Anything at all.

And, it is even possible that the output from such a Chain, could be exactly what was needed to restart the original first Process in the Chain, and hence thereby delivering a Repeating Cyclic Process instead, which, of course, is less dependent upon exterior resources, and could, via very-meagre-inputs from without, carry on processing

for long periods. Now, the above contrary fragments demonstrate how far we are from Explaining Reality-as-is! For Mankind has positioned all its investigations, and thereby straight-jacketed all The Sciences into very narrowly constrained areas, and hence demanding a very different approach henceforth.

So, finally, in this mere precursor to the Actual Explanations of the Qualitative Development of Reality-as-is demonstrates just how far away from the right approach we currently are!

Clearly, the assumption that all Understanding can be revealed only by addressing of "Stabilities", though it delivered a useable Technology, did absolutely Nothing to Explain Qualitative Change. For as Karl Marx was able to demonstrate within the Discipline of History, the Trajectory of the Development of Societies could never be revealed within it - EVEN in studying its Crises - for these were generally and indeed regularly overcome, to leave things more or less where they were!

Indeed, he realised that Real Change was only possible by the Success of a Social Revolution, when Crises moved away from the usual correcting Norms, and instead precipitated consequent Avalanches of failures of Crisis after Crisis, until the maintaining Structures of Society were utterly destroyed and wholly new ones emerged to finally establish a New Society: and as something wholly New, was NEVER predictable within the Old Society, even as an option. It would always be unpredictable before it ever happened.

The only way to even being to understand Real Qualitative Changes, just had to involve NOT detailed studies of Stability, but, on the contrary, Studies of Systems in Collapse!

And crucially NEVER involving any Simplifications of Reality, but, instead, always addressing questions such as "How does it Collapse?" and "How do systems build after a Collapse?" For they certainly do.

But, notice, that the ONLY way that such situations can be effectively studied must be via addressing ALL SIMULTANEOUS PROCESSES INVOLVED being studied in-relation-to-one-another! For Simplifications to single processes - independently to everything else, will NEVER alight upon what will be essential in both precipitating a Wholesale Collapse, or, alternatively, in

explaining the mutually-supporting-natures of all the Processes involved in an Overall Re-build!

Now, currently, this is never done, and literally millennia of the usual approaches could not deliver these crucial relationships.

Indeed, what is needed is an all-embracing Holistic approach to development, as described by Marx in his historical studies, but here applied in the as-yet empty area of Scientific Investigations, and to Natural Development too.

Now, though this area is totally New to such an Approach, the fragments mentioned here do indicate the way to go, though clearly, as these kinds of investigation are at a very early stage, nevertheless, a wholly new set of Ideas and consequent Techniques must be established in the most fruitful possible areas - Biology and Evolution for example.

Now, some years ago, I attempted to tackle the evident weaknesses of Stanley Miller's Famous Experiment concerning the Origin of Life on Earth. But, at that time, I had no inkling of how it should be addressed: but now, I believe, it would constitute the very best place to start upon this endeavour, as in Living Things, the Techniques addressed in this approach are unavoidable, so researchers will be forced to use and improve them up to the standard absolutely essential in BOTH areas!

But, of course, no easy short cuts will ever be available as they always are in the Pluralist Sciences, so the researchers will be constantly presented with unavoidable problems, and wholly new challenges that are usually swept under the carpet to simplify the causing problem.

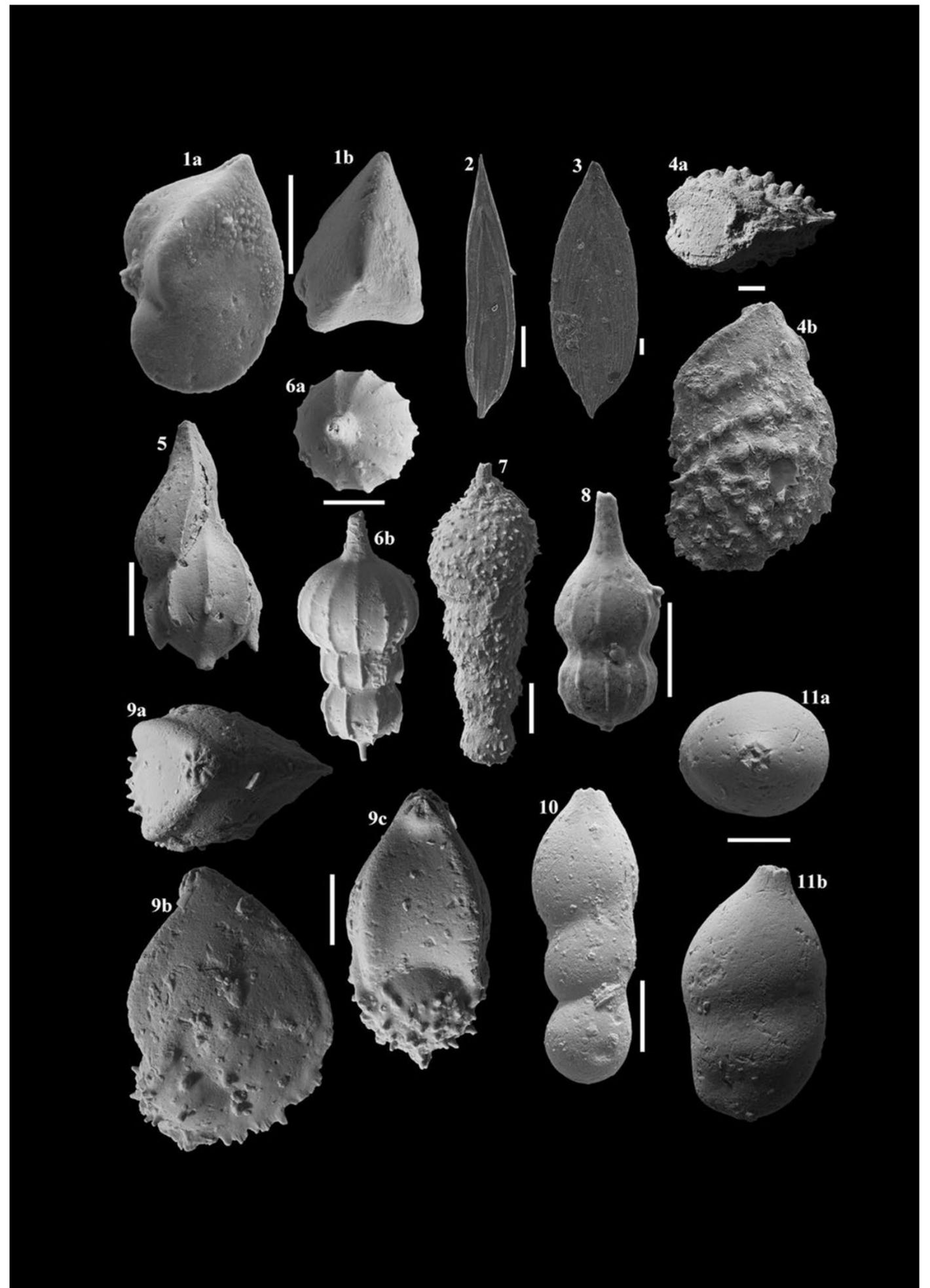
But, for this researcher, there was always the advantage of that past Interlude of unfinished Research, which would valuably merge into this more basic philosophical work - each part contributing to the other.

And, perhaps, the most valuable contribution of that past endeavour was that, at every stage, a new physical set-up with inert channelling would allow temporarily-separated streams of developments to finally merge again delivering wholly new results!

Indeed, I had to conclude that without such an influx of conclusions from such concrete studies on Life, the very well hidden related features within non-living multiple processes would never be addressed!

NOTE:

That prior Research, entitled Truly Natural Selection, has already contributed to the current ideas, principally via the then detailed study of multiple, simultaneous processes, and now perhaps the current studies can again be improved by later developments in that prior research - not to mention the vital wholly New contributions both-ways produced by further mutual effects!



## Development and Evolution

### How Life Changed Tempos Radically



In beginning, to explain the Natural Development of Reality-as-is, and having to consciously change from the once primitive Approach by assuming a single All-Embracing Rationality to a strictly Formal One, epitomised solely by Mathematics: it gradually (and haltingly) became clear that such an Approach was far too restricted - excluding all relevant causative factors, to highlight only those that are wholly defined by a Set of Forever Fixed Laws - just like those of Mathematics, and hence making those rationalities entirely Pluralistic.

So, if the readers of this (as they should) require a comprehensive proof of this important conclusion of mine, I can refer them to many evident arguments, culminating in this stance, within SHAPE Journal - compiled over the last 12 years by this writer: where the main intention was to win over participators to the Alternative Holistic Approach, as originally initiated by The Buddha, though only finally and extensively established by the historian/philosopher, Karl Marx, very much later, in the 19th century - some two and a half millennia after The Buddha.

But, Marx never extended his crucial changes into any of The Sciences, which turned out to be an absolutely vital omission: so he did not complete the necessary transformation, thereby leaving his version of Holism, woefully lacking in many important and indeed necessary areas. And, most important of all, he did not establish sufficiently an All Embracing Version of Holism!

For, it should also have comprehensively tackled the problem of multiple, simultaneous and mutually-affecting factors, that would have involved what I have called The Systems Approach.

But, even those meagre additions, by this Thinker and Writer, turn out to be nowhere near enough, as FIRST: The Emergence of Life totally transformed the available mechanisms within the properties of the now newly available agents of all the possible concrete development, namely ALL Living Entities, and the then, ultimately, the qualitatively different Thinking, finally possible by Mankind!

Now, the latter undertaking is now somewhat underway, but the former involving the effect of Life itself, has, as yet, NOT been addressed. So, the purpose of this paper will attempt to begin to sufficiently fill that vital gap!

For the tempo-and-nature of Development, itself, was majorly-and-qualitatively transformed by the Emergence of Life - as embodied in the unavoidable, apparent limitations delivered by the relatively Short-Lengths of all the Lifetimes of the interacting living entities involved, and also significantly also compounded by the only possible concrete legacy between generations, being via the sexually-produced, and hence genetically-defined determinators, combined within the produced seeds-or-offsprings: and which always being distinctly genetically-different to the contributing individual parents, and, thereafter directing the competition of those differently-endowed others of their type.

For, the somewhat inferior products would always survive less well, and, over time, the genetic stock of the various populations would clearly improve and even their means of life would change and be passed on both purely genetically, and by parental instruction! And though other factors would undoubtedly be involved, there would be significant tempo developments via Evolution,

than was ever possible before the Advent of Life!

From two very ordinary Working Class families, including my Grandma, who could neither Read nor Write, my son now has a Doctorate and directs a significant course at a well-established English University!

Yet, nevertheless, actual ascending trajectories of possible individual development, are not yet what they should be, as the World Economic System grinds increasingly haltingly towards an inevitable Worldwide set of Devastating and even Existential Crises, in many different directions, each with no obvious solutions, being either pursued, or even proposed.

The opportunities that are still possible, are increasingly opposed by those who for a very long time have been reaping most of the rewards available, and doing it in such a way, that, on a Global Scale, they work against such developments, if applied generally, and instead re-direct the driving imperatives involved away from the general involvement of all populations, so that they show themselves as driving things, at least partially, only to their own working populations, so that they are ever more likely to be blamed. Global calamities such as increasingly irreversible, yet wholly Damaging Climate Change, and the also ever-growing impoverishment of the majority of the World's poorest Populations!

And, by so doing, attempting to divert the blame for all of the Crises onto ordinary people, and certainly not the fault of the decision makers, who actually caused it, as long as they didn't suffer!

The Objective of the Ruling Class is clearly to ensure their own well-endowed future, while everyone else bears the brunt of any fall-out, even though to continue to get away with it all, they will act as if they are struggling against colossal odds outside of their control, while they continue to try to alleviate the lot of the Common People "as best as we can!"

But, though the tempos of development involved in Society were vastly increased, those improvements were NOT directed in the very best directions, for the benefit of the majority of the population. But, always aimed in the directions that affected the tempo of monetary benefits selectively to the Owners and Directors of all Productive, Transportive and Distributive undertakings! The needs and benefits for Employed Workers did NOT figure at all in these remunerations!

#### Theory

Without a doubt, further progress in the intellectual developments that Mankind has pursued, is needed in order for us to survive beyond this century. Literally ever since we abandoned the Trees of the Equatorial Forests for the significant Emergence of the new open expanses typified by the unsustainable grasses, with their populations of grazing, fleet-footed animal inhabitants, along with the fierce predators that preyed upon them, so clearly having the strong effect of selecting for ever increasing speeds of the prey animals, in order to even survive! Surely, that didn't seem at all conducive as a habitat for Human Beings! So, what was it that even gave them a chance of surviving? They were NOT fleet-of-foot: nor did they possess dangerous teeth, claws, or remarkable strength!



Those Hominids seemed hopelessly ill-equipped for the wide open Praries, and far better off remaining where there closest relatives, the Gorillas and Chimpanzees chose to remain, with the protection and relative abundance of the fast shrinking Forests... But, they didn't do that!

So what features in the lives, suggested that the Praries were the best place for them?

They had already abandoned the trees for the Ground! For by doing so they enabled their forelimbs to become manipulators of things: and their hands evolved very differetly, into brilliant manipulators of many different things. The became bipedal, with NOT tree-grasping "hands", but running feet! They had already found ready-made rools in the form of sticks and stones, and could maintain a naturally caused Fire, both for warmth and to scare off predators.

And these changes radically altered their ability to THINK! It was as yet still similar to how they used their brains in the Trees - but was changing fast! The new environment was greatly more challenging than it had long been in the forest: for there was literally no secure places to go to when challenged by predators. Somehow early Humans had to stand and fight and arrive at effective ways to do that! They had to constantly think of how they would survive: and those who didn't measure up, perished! There was a selective pressure upon them that fairly rapidly selected for the cleverest!

They found caves to use as refuges: and ever better weapons to fight with, including spears and Fire itself; and, accordingly, only the best thinkers survived, and, along with the developments in intelligence, the Humans (or, most probably, their immediate ancestors), rapidly adapted to make the best of this new environment for their survival and development. In particular, they lost most of their body-hair, and rapidly adapted sweating to further cool down their increasing temperatures - while also adapting thier legs and feet, for extended necessary running. They became ever better animals of the plains!

Now, such swift and concentrated adaptions also demanded major changes in their brains, but, most significantly, in how they solved the very different problems of Survival: for without that ability too, they could not have continued their conquest of ever new environments, which they continued to do until they

were literally everywhere upon Planet Earth!

But, to assume that all these developments were based upon ideal ways of internalising the Truth of these New Situations, you would be very wrong indeed. For, there was Absolutely NO Easy Access to such "Truths"! Reality-as-is is far too multi-layered and complex for that to be directly achievable by mere Experience of it.

Indeed, all such achievements ONLY had to marginally increase the possibility of survival - and that has to include something of the Truth!

So, literally NONE of the improvements ever enabled Human Thinking to alight upon any absolute Truths at all: they were all only ever partially true, and would, every single one of them, lead to error in all attempts at analysis!

Our concept of both the Nature of Reality-as-is, AND of our predictions from it, have so far been inadequate, as every New Area of Study only ever reveals wholly New, previously-hidden features, that, even when they are fully addressed, are STILL not by any means, the Whole Story! Indeed, these revelations prove undisputedly that the Holist View and Approach to the study and control of Reality-as-is is absolutely correct, and that from the tiniest morsel of Matter to the Infinite Universe, there will exist many, many very different Systems, Structures and Laws, which, nevertheless, naturally co-exist, and even contribute to one another: YET at each Level deliver different dominances and hence a surprising measure of temporary independance, while still via Emergences, are always capable of changing overall situations dramatically - even into what appears to be a Direct Opposite situation!

## The Profound Effects of the Systems Level

upon Natural Causality and Humankind

It cannot be argued strongly enough that in order for Early Man to even cope with the Causalities of their lived-within Containing World, they just had to make suitably simplifying assumptions especially if they wanted in some way to control their hostile environment, at least to some reasonable and useable extent.

But, of course, its most threatening aspects were, initially at least, well beyond their meagre capabilities, so they naturally concentrated upon what they could affect, which they simply found-out and used, primarily, and if possible, to help to defend themselves and their immediate families against their main and most dangerous opponents - The Predators!

But, a chance-found cudgel of dead wood, fallen from a tree, was never much use, against a fierce-and-strong beast, so initial aids were primarily-defensive and always required everyone to be involved throwing rocks from a prior-collected set, while the strongest would attack from behind with found cudgels. And this might well be effective if a defendable cave was available nearby.

Indeed, initially Mankind's primary weapon was always their superior intelligence, for until they could adapt the elements of their world more effectively, that was all they had.

But, even at its very best, their Thinking had been irreparably-and-wrongly-structured, significantly, by absolutely-necessarily-included further simplifications, without which, situations would become much-too-complex to deal with at all effectively. Yet, the forms and factors involved in those simplifications, only revealed particular approaches that could, at least mostly,

“work”. So, the means developed in survival was adapted as a generally applicable approach in all Early Man's endeavours : it was the best they could do!

They certainly did not reveal absolutely everything happening, and, at best, assumed a limited set of factors, which would deliver most often successful lines of action: but, they never allowed a truly comprehensive Approach!

For, the strategy was to address, not only a simplified set of factors involved, but crucially as factors applied one-at-a-time, indeed with each, studied within its own separate context.

Indeed, the effect of many simultaneous factors all acting together, was NEVER even attempted, but replaced by a celebral-yet-incorrect version of the ONLY yet-devised and useable method ever attempted in all successful attempts at Production - wherein each active factor was applied ALONE, in an appropriately constrained environment, to then be followed by the next effect, again within its own and necessarily different situation.

And, then thereafter with each of the known factors in turn, each within its ideal limited context.

The final result was assumed to be THE SAME as what would happen in the Real Situation with all these factors acting together! It had been demonstrated to “work” as the individually extracted Laws said they would - overall!!!

“But it isn't true”





## Systems Effects and Us

When they all happen simultaneously they always affect one another, and those Effects are NOT included in our conceptions! Even the simplest of the Systems Effects can be significant, and cause results, which are NEVER present in the separated-factor-series of Effects and their actual revelations. For, such separations make the Laws involved appear to be Totally Fixed - and Distortingly Pluralistic.

To disentangle all such effects, we learned how to totally separate them, with, at best, only a single process, acting at a time. The result was NOT a true revelation of the different effects, as it dispensed with the actual complexity of the real situation - most profoundly evident in the multiplicity of simultaneous processes actually all striving to act at once in multiple identical strands as well as others of these either in advance or behind our "supposed single" one!

Those illegitimately omitted multiple Systems Contentions, always mean that not every series of actions gets completed, and hence the relative dominances of simultaneous processes is inexplicably changed. And that alone can change outcomes!

It can do this in two related ways.

First, relative dominances in a group of different simultaneous processes can change - causing switches in subsequently observed effects.

And Second, more and more of a given process can fail to occur entirely, sometimes changing the overall result.

All of these will NEVER happen in the artificially separated Conceptions and Methods.

And these are not the only Systems Effects involved!

What really happens when multiple processes happen simultaneously?

They do not happen totally independently of one another: in fact, they inevitably form Chains-of-Processes, with each subsequent process requiring the completion of its necessary precursor, before it can proceed. And, these are NOT ever usefully lined up in an orderly queue.

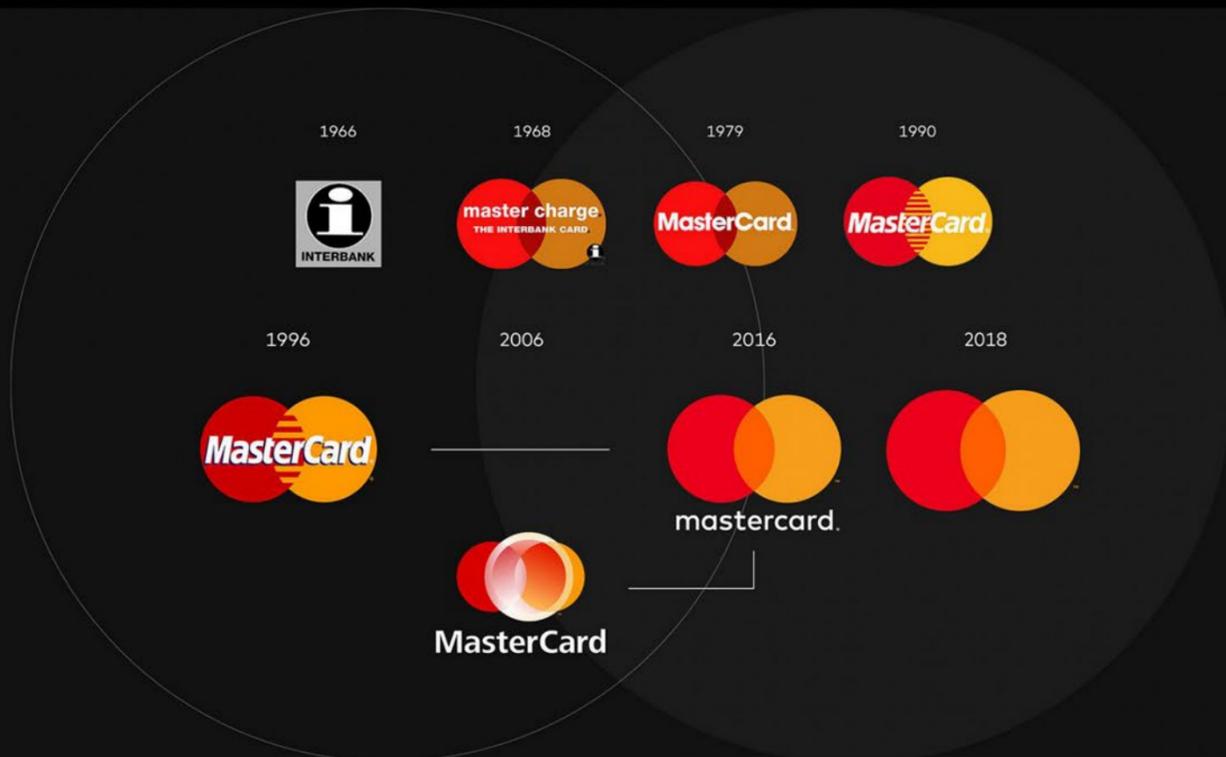
Instead, they are all over the place, and only the nearest is usually proceeded with! Sometimes there isn't one close, and things are delayed - reducing the rate of that particular process, while others carry on at a slightly quicker pace, so that occasionally the dominances between processes can radically change, until the declining one can drop completely out of contention, perhaps even accelerated by a change in resources from without!

None of this, is ever included in Pluralist Analysis - so the Laws involved cannot reflect the resulting Systems Changes.

Now, by far the most important Systems Structures occur when the output of a Chain is exactly what is needed by its initial process: and links up with that first Process to form a Repeating Cycle. And this immediately makes that Cycle more resilient overall, and even more dominating within the overall mix containing it - changing significantly the dynamics within the mix, and even its role within an even higher Level.

Now, so far, the Systems Modifications outlined above constitute only a small number of all the exceptions involved, at the many Separate Hierarchical Levels existing above those referred to. Remember, there are many levels above those we encounter upon Earth, which though not describable there definitely affect them nevertheless!

Indeed, the effects involving several combined Cycles of Processes, are also just as relevant, when considering Higher-Organised-Collections of Cycles, usually not yet even recognised as such - and even those involved in the Major Systems that seem to constitute our current Economic System of Capitalism, as they play out in the various Crises that regularly occur in one particular Cyclical Part, by making adjustments within another very different and maybe also even distant Part of the Overall Containing Cycle, to increase Profits there (and hence overall), in order to offset "naturally-occurring?" reductions occurring elsewhere. For, as the driving principle, and existential purpose, throughout the System, is the constant efforts to increase Profits, such adjustments as these are the main means of controlling such Crises, which if not addressed in this way, can link up with others to possibly produce a Terminal Overall Collapse, if not immediately and adequately attended to!



## Variability, Change and Development

### The Purposes of Stability and the Difficult Necessity of Development

Clearly, we cannot afford to ignore the many Real Levels that are beginning to become evident to us.

Yet the currently unaddressed Systems Calamities, which are looming upon all sides, such as that of Climatic Change, remain nevertheless, largely unaddressed by modern thinkers!

Now, very clearly, the attempted solutions of those currently in Power, can never solve such as the clearly self-generated problems, entirely because their unavoidable premise that drives their privileged Economic System CANNOT continue much longer without a System-Terminating Result! So, that System has itself to be dismantled urgently, before its Final Unavoidable Cataclysm tips Planet Earth, and all Life, over the Edge!

But the Existential Crises currently maturing will present many mounting problems for the Capitalists: and, thereby, deliver multiple opportunities for truly revolutionary solutions to be formulated.

The solutions will work only if the necessary Theory is also developed to enable Informed Revolutionary Organisations to be established - though currently that is NOT the case at all. Indeed, even those currently professing to be resolutely Marxist, are in no way equipped for the job.

For Marxism, instead of becoming a Real Philosophy, has degenerated into an opposition set of groupings, always skilfully penetrated by "liberal" escapees, who always seek to deflect its purposes towards mere Protest.

A New Intellectual Revolution is certainly needed in how we deal with these complex evolving dynamic systems, if we are to survive much longer as a species.

As was beginning to be established with the extension of Descriptive, Analytic and Explanatory Methods, as they clearly emerged within the wholly New Systems Approach - the period of solely-working-downwards, from the seemingly more evident Stabilities of Existence, must end, and instead turn to the real and clearly-formative Engines of Change, which are undoubtedly far more important than the temporary Opposers of Development, clearly producing actual Qualitative Change from "seemingly-permanently-unvarying" Stabilities.

The previously-arrived-at Purely-Static Descriptive Phase, had to be fully replaced, by the underlying Wholly Explanatory Phase: and the Reasons for Change were very clearly by far the most important - merely-temporarily-interrupted, as they were, by sometimes extended Interludes of Pause!

And, before the primary direction is permanently reversed, there has to be a clear understanding of all the Levels actually involved. What, for example, will be the Absolute Bottommost Level?

Perhaps the Systems Approach is it - or that may turn out to be only The Penultimate Level: we are certainly getting very close!

Now, for the necessary detailed appreciation of exactly how this position was finally reached, I can only recommend the several comprehensive series of essays achieved by this writer over the last year or two, which are far too comprehensive to be reiterated once more here.

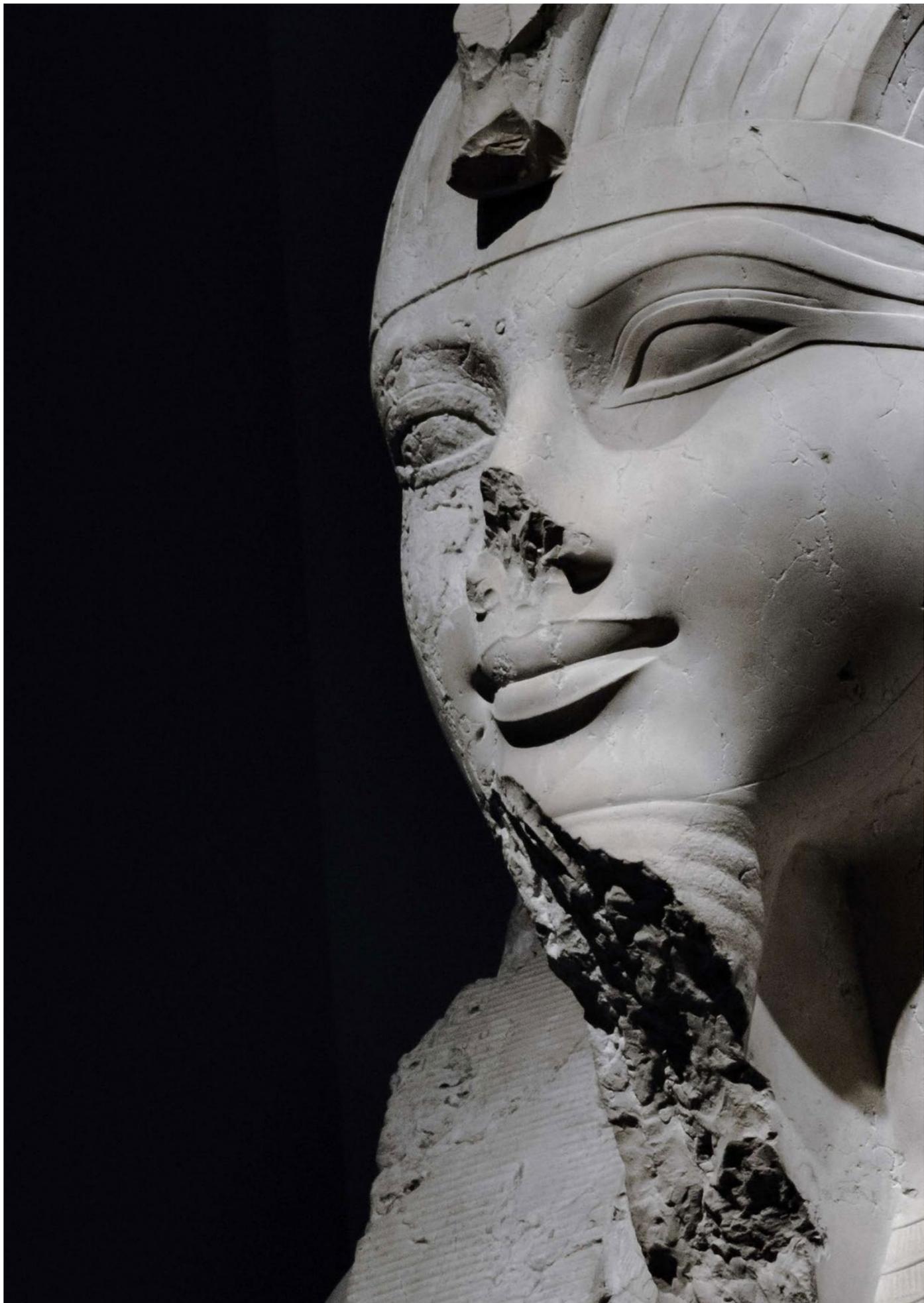
So, instead, this short essay will take the form of defining the consequences of that extensive undertaking, while concentrating primarily upon the Stance and Techniques necessary to both lay-out and then further develop the necessary future tasks apparent in this crucial area.

The General Approach will initially carry on, with all the discoveries of the prior essays: but will also basically attempt to address them all via a Bottom-Up sweep, and hence will be emphasizing the dramatically different Tempos appropriate at the various Levels of Reality involved.

The accounts will NOT ever start from assumed Stabilities, but, on the contrary, will attempt to reveal, at each stage, their various persistences, while also successfully predicting their subsequent tempos of decline, and consequent ultimate dissolutions!

Clearly, it will be the Dynamics of Change, which will be this writer's primary concern: for without those, the account would slip back into the usual Purely Descriptive Mode, rather than the aimed-for Explanatory Mode of Science!

But, the correct orientation necessary to approach a Real Understanding of Society, simply must no longer be from the objective of revealing the underlying assumptions of Natural Stability, as the sole entirely natural Basis, and hence the intended targets of all Natural Changes! But, on the contrary, an always Dynamic Alternative, which, though constantly-active, still displays a Stop-Start Character, entirely due to its multiplicity of constant variabilities of different magnitudes, tempos and relative dominances!



And, the overall, consequent trajectory of these Causal-and-often-contending Elements, NEVER have decided-objectives, and hence delivering consequent determining Priorities: so, the always-temporary results, are usually only effective *balances*, of all these components, in always temporary, if occasionally long-winded Stabilities. There are NO PREVIOUSLY-DECIDED-OBJECTIVES!

Indeed, Wholly New temporary Pauses regularly-emerge from the *melée*, and some can thereafter remain, as new and important contributions to the forever-continuous, and hence incessant-moves for Change.

What arises in just such a directionless set of changes, of only temporary achievements, simply cannot be said to have any driving purposes, but it does have effectively infinite resources of Energy - both explicit in the Form of Movement, but also implicit, within its Structures, which, entirely alone, drive all of its development upon both fronts.

For, the Emergence of Consciousness, within the pinnacle of Natural Development's major achievement, namely *Life*, unavoidably imposed the most remarkable Emerged Feature of that Consciousness, namely, *Purposive* Actions, BUT as The Sole Driving Feature of Reality itself!

But, No Such Feature has ever actually existed beyond ourselves - and Mankind, the sole perpetrator of that Conception, just had to embody it in a Kind of Super Man-like Consciousness, which was termed GOD, and, of course, was subsequently seen as the sole Source of Everything in Existence!

And, this, along with many other similar misconceptions has dominated the General Philosophy of Man ever since! The actual case of a wholly non-directed, and purposeless World, with its own explicable *Dynamic*, is hence pursued literally Nowhere, within its increasingly Complex and Contending State of Development!

Now, as must be coming increasingly evident, the many and varied Conceptions we have of the World, are very-far-indeed from fully explaining its Contents and how they have evolved, at all adequately, and thereby informing its supposedly intelligent and able Human inhabitants of its true Nature and possibilities.

It is, on the contrary, declining into something of a confusing mess, inflicted upon us by its misguided controllers, interpreters and users, primarily determined by their own priority needs!

Literally none of its dominant directors and controllers are addressing its increasingly threatening Crises, and are, in fact, the Sole Cause of its current accelerating decline. And, it will remain in this increasingly deteriorating State until its True Nature is appreciated, and acted upon. How could it be other?

But, there is undoubtedly a solution: which has been discerned, by a very few Human Thinkers in History, who, following Karl Marx, have attempted to coherently and comprehensively apply his Holistic Approach to other studies too, and particularly in the areas where it has, thus far, not been adequately applied.

For that, unavoidably, would involve an essential Total Transformation, within our conceptions of the True Nature of Reality-as-is. and, for the very first time ever, a measure of the sound Understanding of some of its many determining inter-relationships, and, consequently, also its wholly Natural Self-Development!

For, without a Directing Planner, either Human or Divine - Reality can only develop according to its Own Natural Relations: and as History, in the hands of Marx, has clearly shown, when Absolutely Never, if left to itself, has it Self Destructed! But, it will, on the contrary, in time, dismantle the widespread Man-Made-and-Maintained Fictions, and has then always Survived and Developed in its own way.

However, in the currently evident Man-Made-Mess, it will need considerable help! And the current beneficiaries of the present Status Quo, will fight Tooth-and-Nail to maintain their ideology and dominances! So, to release Reality from its current detours will require an almighty Political Struggle: and to achieve that, we will need a Real Revolution, not gradual Evolution.

**Postscript:**

In *The Theory of Emergences* and *Natural Revolution* I studied the importance of revolutionary interludes in the development of both social and natural systems - but we don't fully understand how the Wholly New Emerges from these events - or the crucial role of timing.

Two of the biggest countries on Earth, Russia and China, both had Social Revolutions in the 20th century, but have NOT, so far, established their Stated Objective of Socialism! So, the dominant question has to be, "Why?"

The easy Marxist answer, has to be - they weren't ready. They were both previously essentially Peasant Countries, with Capitalism only established in the bigger cities, so that the Revolution did not radically alter the majority of the Economy within the largely rural communities, but only established Communes as the political organisations of the People there! BUT, all of them still wholly without the financial wherewithall and necessary Technology to remedy their debilitating economic woes.

I was in China in 1979, so, while travelling through the countryside of Guangdong Province, I saw something of this myself (see photographs opposite) - a long line of peasant women, with baskets of rubble on their heads, attempting to build an essential village dam of the nearby river, for Irrigation and Power objectives - all by hand - a literally a never-ending task... And, that was 30 years after their Revolution!

So, when a Crisis came, in such situations, as it had indeed done so - the peasants saw no real benefits for themselves, and upon the purging of the Kulaks in Russia, (the wealthier Peasants), the rural farm workers increasingly stopped the essential food shipments to the cities, and a supposedly temporary advantageous deal for the Kulaks was necessary to re-establish supplies - consequently and inevitably consolidating wholly new Power Structures in the countryside, which via the now distorted Kulak-led Communes, enabled the building of a privileged Bureaucracy in the Structure of the Communes and The Communist Party, to which Stalin, thereafter put his trust and established his power by!

And that wasn't all! Worldwide, absolutely NO Marxist Assault upon Pluralist Science was ever mounted - so the gains of Technology were STILL achieved thereby, in all the Sciences, totally separated from any gains of Dialectical Materialism. The Sciences and overarching Philosophy were totally unchanged despite these Revolutions!

And, in China, belatedly, under Deng, in a similar way to the role of the Kulaks in Russia, an advantageous deal was made with those who had the wherewithal to insert what was essential to generate the necessary Finance!

The Pluralist Science and Technology developed under Capitalism, just had to be available to both enable and finance the Aims of Socialism!

**NOTE:**

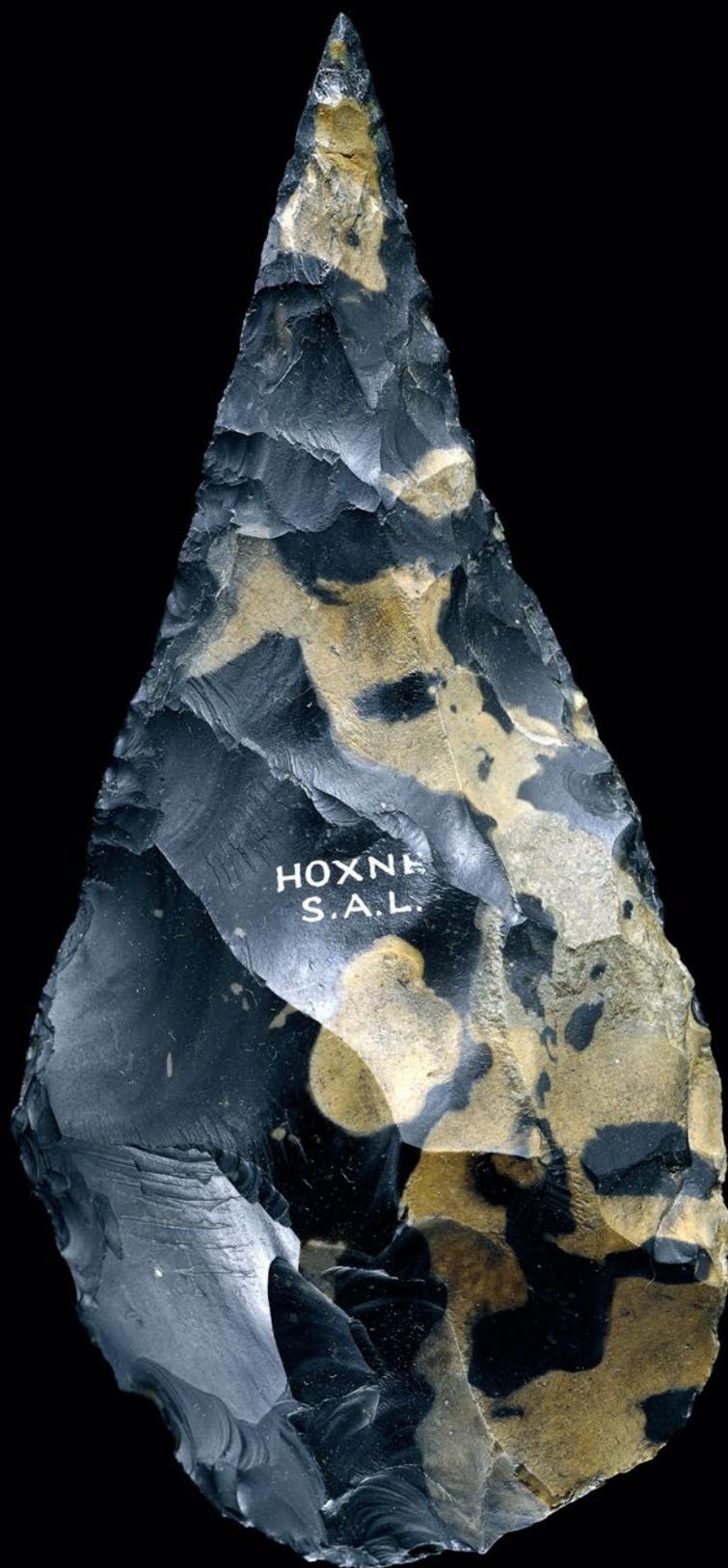
Just as powerful elements of the Feudal Aristocracy had remained and participated after the Capitalist Revolutions, and were even added to by the successful Captains of Industry, so were many of the ex-Kulaks promoted in the Communes and Party into a co-operating and powerful Bureaucracy.

Strangely enough, the higher Level System had steadied itself once again...



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