

Humanity's Colonization of the Global Infrastructure Space (Paris OBAMA 4.2.doc)

The leaders in Paris are *elaborating* our “shared stake” in the “common greater good” by designating a new opportunity for long-term infrastructure investment.

This is a proposal for a modular update to be included in the vast work underway to elaborate an apparatus to provoke prosperity whilst reversing the acidification of Earth's geochemistry. It is a technical description of a metabolic module of four structures that function together to solve an array of problems for which our apparatus as it stands lacks well-crafted solutions. It is an addition. This is an outline and as such can only briefly summarize the problem it solves. ** As such it is an offering to the patient technical craftspeople at work in Paris in the hopes they will test its meaning. Before it is nested in a larger artwork to make it transparent. It is tricky to describe the synchronized capture of a palette of values. I try to do it in passes. I work on this for my son's future. And in respectful attention to its harmonization with the enormous efforts of the many dedicated heroes.

It includes strong controls over its effect on- and provision to- the global economy and national sovereignty as they now stand. It proposes a negotiated agreement with the interests and assets of the hydrocarbon energy infrastructure (peace in Infrastructure Space). It is a technical script to include in a win-win strategy to increase the quantity and quality of valency between money and matter in infrastructure space, whilst providing a strong coin for the engineering of further value. It adds numerous productive conjunctions, efficiencies, mechanistic synchronizations, but most urgently it concentrates specific values in specific opportunities to give them stronger and more transparent qualities; it cleans up the financial chemistry to give us more power and agency to produce high quality real and abstract form.

At heart this proposal elaborates the model of ‘government bond’—putting ones money into a big pot with a secure trajectory of appreciation—into a far more sophisticated, transparent and attractive coin and pot than can be offered by a government bond, whilst retaining many of the strengths of a good government bond.

- It elaborates a new mechanism for origination and appreciation of the coin. Better than gold and better than bitcoin and better than 2% target.

- It elaborates the power and precision of *the material asset audit* to include the power to issue the coin and as a multipurpose negotiator between the realms of abstract/engineered value, real material assets and projects/plans. That is to say the coin and the audit power that can issue it are the formal interface between money, matter, and what we want to build in Infrastructure Space.

- Most remarkably, it involves neither the permanent ownership nor use-revenue of the infrastructure asset it produces. Whilst creating the conditions for the capture and monetization of three old values we squander without measure.

** Summary of the current problem with infrastructure investment in Emerging Economies: For all but the wealthiest cities, use-revenue dependent models of infrastructure investment defeat their own *infrastructural value*: By charging for use we defeat the heavy usage that provokes prosperity. By requiring revenue from fragile currencies/economies we undermine the very security that makes an infrastructure investment attractive.

Summary of the historical problem with Infrastructure Investment: how to take your return outside of Infrastructure Space amidst the wealth it supports: At the birth of modern economics, the Physiocrats saw that removing agriculture from the political economy of the day would be deleterious to the young cities mushrooming at the borders of their agricultural estates—and they wanted to be paid for that fact. They wanted to harvest a return for their investment at its new real maturity: amidst the value being created in the cities. The dynamism of cities and nations quickly obliterated the Physiocrats' tidy diorama of dependency, because the success of infrastructure obscures its role: One rarely thinks of London's sewers when admiring its property values. The pleasures of Facebook rarely bring ones attention to deep-sea cables and disk arrays. Successful infrastructure is overgrown and hidden like a trellis by the prosperous rose climbing its handholds. And yet, the natural profit point of the Victorian investment in quality sewer pipes is amidst the super-mature conditions of a booming London 2015—able to pay for a super-sewer. Even this is cold comfort to a Victorian investor in the waterworks company with no chance of holding onto their claim. And frigid to the rest of the world, which is not in conditions of blooming epitaxial maturity where water bills are dwarfed by property values.

This metabolic module brings 4 apparatuses into productive conjunction:

A stratified concatenation of vehicles with ironclad security and acceleration to a strong maturity (COV $A \rightarrow B$), a universal engineered currency (UEC), a universal audit space (UAS), and a sequence of minimum unanimous conditions (Trellis Treaties).

A 3-D Printer of large scale matter for infrastructure space: **COV $A \rightarrow B$**

Engineering the connection between long-term infrastructure investment and its actual maximum maturity with a Concatenation of Investment Vehicles (COV). The COV transfers the pooled long-term investment in infrastructure across 4 strata of epitaxial value as it literally builds and climbs the conditions of prosperity to accomplish its overall trajectory of $A \rightarrow B$. Where it will take its massive and painless return well out of Infrastructure space.

The crucial elements are

- 1) the over all trajectory " \rightarrow " across the well-defined strata of Infrastructure Space, which is accomplished by a concatenation of vehicles COV that pull investment from the assets of each strata into a maturity window with automatic reinvestment in the creation of the next strata of assets. There should be four strata of transfer in the $A \rightarrow B$.
- 2) Preferential rights of investment on the tabula rasa of the accomplished assets. The right to build the grid after accomplishing the Solar Sea.
- 3) A liquification process involving the production of a coin.

When no one wants to or can afford to buy a top notch sewer system, irrigation system or solar power system in Bangladesh from the infrastructure bank, how do we liquefy the investment at the maturity window so it can reinvest in strata two??

A quick walk through COV strata and action:

A) Stratify desired projects/assets of Infrastructure Space:

Gather the plans for global water and energy infrastructure projects from World Bank, Development agencies, governments etc. Transition as many as possible to solar and

harmonize the water plans including the prospect of electricity for moving floodwater to dry areas, and so forth: stitch them into a global plan e.g. from flood defenses in Europe, desalination in Morocco to Irrigation in the Sahel. Pool it, Price it. Risk it. Reassure latecomers that this is the first of several such, urge them to audit and prepare their projects.

B) Place this pool of projects at a bank for its execution.

C) Step forward to the imagined accomplishment of these assets and designate the next layer of investments: The systems of distribution, connection, and inclusion. Price it.

D) Step forward to the imagined accomplishment of these assets and designate the next layer of investments: The economies and ecologies that will spring-up on the infrastructure and systems as the wealth of the world grows. Name the assets you would most like to own, for example the university campuses, offices and so forth you would like to invest in.

Ok that is far enough estimation. These are the first three strata across which the trajectory of the COV carries the initial investment. These strata correspond to the strata of a natural ecology as much as to the strata of humanity's artificial ecology. The third vehicle brings the investment out of infrastructure space and into non-infrastructure assets supported by the infrastructure. A minimum guaranteed return/liquidity escape window opens. But the third and fourth strata strata of the COV are where the value goes exponential alongside the wealth of society.

Liquification upon completion of the assets to allow the pool of long term investment to move between the strata 4 strata of A→B:

The Audit of the Assets to issuance of the UEC coin

In brief:

The high precision audit of the actual assets created by this A → B investment is the basis for originating coinage of The Universal Engineered Currency.

Like a gold-backed currency or a bitcoin, a UEC coin is originated by the production of unfalsifiable symbolic value, but unlike bitcoin and much more like gold-backed currency, this unfalsifiable symbolic value is originated in the production of real assets by the long-term investment A → B. No more bit-coin mining, no more tremulous fiat currency probes of inflation, **we focus our full firepower on the production of high quality symbolic value.**

For example: a UEC coin would be originated from the A→B investment as follows:

The creation of

one (or two hundred miles of) solar panel of x ISO specification installed at the geographic coordinates xyz, receiving x quantity of Sunlight with a lifetime electricity conversion of Q, a use-life of P, and a maintenance contract for P, and to be connected to the distribution grid (realized by second stratum of A→B),

Would be entered into the transparent Universal Audit Space of the UEC and assigned an unfalsifiable symbolic value tethered to the particularities of the asset. This symbolic value would be pooled without breaking the filaments to the actual particular assets. These filaments of symbolic value could be bundled into portions suitable for a coin.

Some foundational unit will be absolutely necessary¹ and I suggest it be small: e.g. 1 solar panel or one desalination pump. **As efficiencies increase**, the quantity of real asset

¹ I propose "Hanergy solar panel X" as the "centimeter" of value, in the case of CSP or nuclear this will be a

And above all because we need to preserve Denomination to create a desired selection pressure: The coin is denominated by the audited projected life-span of the linked asset. A standard quantity of symbolic value makes our coin. It can be increased in value by increasing the efficiency of the asset. Its denomination is the projected life-span of the asset. A selection pressure for permanence and quality. Symbolic value has a clear lifespan in material reality. And this denominates the length of time a given coin has value.

The unbreakable (untranchable) filaments of unfalsifiable symbolic value would be divided like threads into equal portions, each enough for a coin. The geo-location of the specific asset to which the unbreakable filament is tethered can be noted in the block-chain in the coin and updated regularly by the UAS (Universal Audit Space). The other ingredients of the transparent UEC are the ledger of transaction, the technical orientation² of the coin and the durability denomination of the coin.

² If there is a large division of opinion on the type or standards of assets to be produced, the technical valency of the coin could be determined here. For example that the coins $A \rightarrow B$ is invested in solar, nuclear, etc. technologies. This acknowledges the fact that reinsuring Solar is immensely cheaper than reinsuring Nuclear. But both regardless bear equal tether to water such that a global turn against Nuclear would devalue the energy half of the nuclear specified coin but preserve the water half. As the UAS and the Infrastructure Bank adjusted the technical reality of their trajectory, some mechanism of recycling and transferring between tech specifications could be negotiated by the UAS.

Thus, a UEC would be a sealed issuance with transparent and updated block-chain contents indicating its unfalsifiable origin that can be cross checked in the UAS where it is updated. The audited quality and longevity of the asset defines the durability of the symbolic value inside the coin. A durability denomination of the durability of that symbolic value (durability of asset produced by $A \rightarrow B$), and a ledger of transactions in which the UAS can for example note the transfer of symbolic value between equal assets.

Thus packaged and sealed, the UEC would be issued to the market³ much like a bond or reserve currency, but with a far more precise trajectory of appreciation: the Universal Audit Space will increase the value of the coin in lockstep with any improvements to the asset, and as it is linked to the second strata of assets, and as it comes to support more and more of civilizations blossoming. The symbolic value inside the UEC will appreciate with the assets value and thereby solve the problem of linking to prosperity. It will also encourage holders of the symbolic value to regularly check on the asset, and provide a selection pressure for quality; to extend the durability denomination of a coin.

Two examples:

1) As an exchangeable reserve currency with an internal set trajectory of appreciation:

A village collectively or a farmer individually might pour their savings into a UEC coin and gift it to their children. Their child can go online to the UAS and zoom to the exact geo-location of the asset of its origin (e.g. solar panel or foot of pipe at geocoordinates XYZ). They could notify the UAS if maintenance contracts were unfulfilled, or make an insurance/transfer claim if the asset had depreciated more rapidly than the denomination on their coin had promised.

They can also engage risk, and rent their coin to a secondary investment vehicle, even one undertaken to improve the asset simply to increase the symbolic value that can be derived from it.

2) As a foundation for engineered financial products:

Aggregated in the hands of a financier, the UEC is firstly, a right to engineer, equivalent to that hard won by a structural engineer. Secondly it is a quantity of that right that is also a top quality asset. Just as with a fiat currency, the unfalsifiable symbolic value itself is the value they can leverage/engineer to attract further investment. Invested parties can seek recourse finally to the coins underpinning the vehicle, and additionally, to other assets attached.

However terrible their investment decision or the secondary vehicularization of the coin, the coin cannot be destroyed. It can be surrendered to aggrieved parties or recycled by the UAS as an end measure. The coin's symbolic value is vested in the asset of $A \rightarrow B$ and can only be changed by changes to that asset. A financial engineer can sell their coins forward, issue options and warrants from them and so forth in the standard economy. From the foundation of an appreciating UEC, financial engineering can push its craft into something more akin to structural engineering and architecture. Whatever terrains their genius can designate and convince investors to join in.

But the most common UEC-backed investments will use the coin for leveraged investment in the palette of assets approved for audit by the UAS. In this way their investment produces an asset carried along by the momentum of the $A \rightarrow B$ COV (whilst secondarily) and amplify its effectiveness (and the value of their backing asset). If it is done to a high standard and preservation of intrinsic value, they will have the additional income stream of offering the symbolic value of the assets they complete to the market via the UAS (which bundles and distributes it into UEC coins).

-Assets from which a UEC Coin is derived (by the long term $A \rightarrow B$ COV) are totally insulated from the quality of UEC-backed engineering.

³ I can see no reason to use issue UEC at a discount through banks, which adds unnecessary conditionalities and causes allot of trouble to vernacular translation of the mechanisms.

-The symbolic value of an accomplished asset can only be offered towards the production and sale of UEC if it meets the other criteria of the UAS. It is not included in the underlying A→B COV.

What's so great about a UEC coin?

It has a strong and durable appreciation rate. It stays 'ahead of the meal'. It is unfalsifiable. The A→B guarantees the continued investment *upon- and thus appreciation of-* the connected asset and thus the symbolic/currency value. It is insured by the pool of the infrastructure bank (overseen by the UAS). It is reinsured as a pool by the world's governments backed by the epitaxial value of the hydrocarbon energy system (more later). The quality and durability and value of the asset to which it is linked is constantly audited the owner of the asset. The owners of its symbolic or currency value share an interest in protecting and maintaining and increasing its values.

Thus, the audited particularities of material reality provide a tether to abstract value engineering. A UEC Coin is a platform upon which we can unleash the genius to engineer value, without the genius toppling over real assets of the A→B. (whilst still capable of damaging additional assets equity etc. tangled in the deal, which are only as safe as the vehicle in which they are invested) But the right to build on the bedrock value being produced by the A→B can be fully exploited up to the limit of the indestructible coin. In this way we create symbolic value as unfalsifiable and precise as a gold standard, but untethered from some arbitrary or fragile origination/valuation mechanism.

Back into the initial/underlying A→B COV

The Metabolism of the UAS Universal Audit Space. The sale of symbolic value by the A→B COV.

Symbolic value originated with/derived from the completion of an asset can be made available to the UAS (and thenceforth to the market as UEC) in granular (i.e. one panel or 200 miles of panel) to provide revenue to the insurance pool and of course, to the investors in A→B. It is the unique recourse of the Infrastructure bank to sell forward the symbolic value it is originating with its assets, based upon the detailed audited contract strength of their projects.

But the real maturity of the initial investment in infrastructure happens at "B" and the right to inclusion in the COV ensures this. Inclusion in the COV is a valuable and safe "hold" position seeking return at maximum maturity/epitaxial value ("B" in stratum 4).

The COV transfers the investment in infrastructure across 4 strata of epitaxial value as it literally builds and climbs the conditions of prosperity where it will take its massive and painless return.

The completion of an asset of stratum I opens the window for it to offer its symbolic/currency value to the UAS, and opens the window for reinvestment in the projects of the next stratum 2. (opened by the completion of its fundament stratum I)

The COV translates the investment in infrastructure across 4 strata to maximum maturity in non-infrastructure assets. Each stratum of the A→B COV matures as a window where it can issue its symbolic/currency value for sale. These are also windows of reinvestment where projects in the next strata compete/negotiate for the investment money being evacuated from the first stratum. These twin windows open constantly in granular as noted above, and in bulk with the accomplishment of the World Energy Supply and the World Water Supply. At this point the next of the unanimous conditions /next of the strata are announced and the astounding exponential increase in solar power and fresh water supporting ever greater numbers of healthy consumers and makers is celebrated. At this point the UAS sells the Currency/symbolic value of the completed assets to the market, which will be primarily composed of those eagerly awaiting/depending on the issuance of this proven appreciating

currency they can use to back their investment and value engineering in the normal and financial economies. The COV reinvests the cash from the coins into the next strata of investment, (via its Bank). Other revenue streams will be opened.⁴

Maturity/liquidity window of a Stratum of the A→B COV and opening of the next Stratum.

This long-planned moment of transfer between strata is the moment when maturity and opportunity come into synch in a great bazar of investments, technologies, long term materials and manufacturing contracts, team building and so forth.⁵

Investors in the COV will exercise two additional types of rights here, agreed at the beginning or perhaps during the creation of asset strata I. These are choice and designation rights. Some of the investment entities will want input into the designation of the next strata of investment opportunities, and others will wish to have first choice of what opportunities the pool pursues.

But aside from this, the 1st and second strata will be designated by the teams of engineers interested in creating the high-quality infrastructure and systems of durable human prosperity.

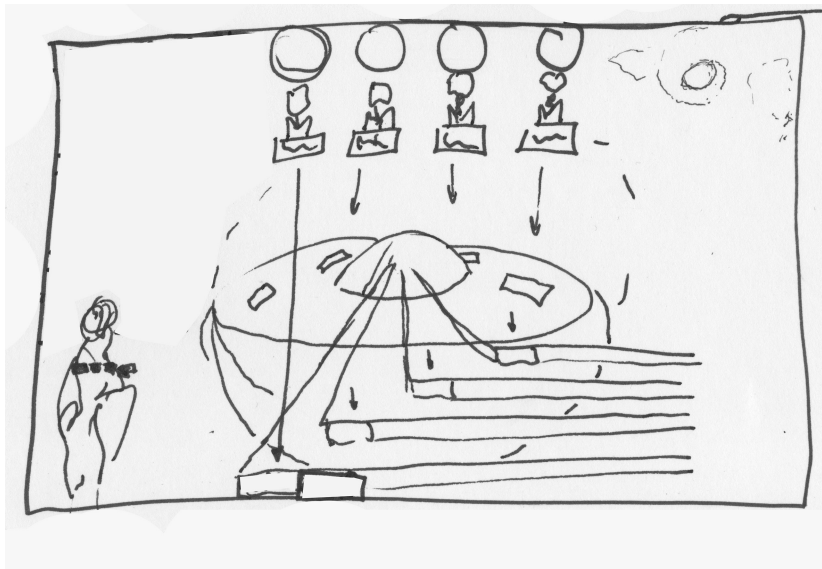
-MORE ON modeling the strata of the COV of the UEC:

We colonize infrastructure space in the same way life colonizes a new niche. The underinvestment in infrastructure space becomes a bonus as it eases planning. In fact the more under invested the easier for the A→B COV to plan its projects around the criteria that matters most: supporting an increase of prosperity in which it then has clear rights to invest.

For example: The strata of A→B are spherical strata with specific assets and endeavors. Each supports the next: Strata I is the energy and water supply of earth; The UAS and other internet architectures/infrastructures, the solar energy seas, the solar desalination pumps, the refurbished and re engineered aquifers, the reengineering of earths electricity and fresh water prerequisite. The gyroscopic battery arrays, the salt batteries and so forth. Measurable in miles of pipe and solar, but also in the engineering of the intakes, flood defenses, permafrost underpinning, sewer systems, ecological remediation and re-naturing, so that they are of the finest quality so that their symbolic value is of large durability denomination. Stratum 2 is the systems of distributing and connecting and exchanging and storing and recycling electricity and water and Internet. Stratum 3 pulls the investment out of these assets into the realization of the assets of the ecologies and economies supported by these systems like the wholesale switch to electric vehicles and many other. Stratum 4 is maximum maturity, with the option for cash or reinvestment in a new COV Strata I to realize the next global infrastructural prerequisite. This realizes the epitaxial value of infrastructure: Everything else can be built upon it. Everything else depends on it. The COV engineers this link and harvests its real maturity at maximum epitaxial value at each stratum. Infrastructure supports further value creation in the real economy.

⁴ In wealthier areas, with formal tax regimes, land value will be increased (i.e. no more flood plane, or no more drying California) allowing the infrastructure bank to claim some quantity of this for maintenance of the assets.

⁵ Projects can be presented to the UAS for final and Central-bank style insulated absolute say. Their Mandate: to build things that can be built upon. To build the strata of the artificial ecology in a way that improves the symbolic value of the ecologies and economies that will become investment opportunities in strata 3. They must be firstly committed to stopping and reversing the expulsion of ecological and social value from earth.



Sequence of Unanimous Conditions

The “Framework” for The Win-Win Strategy: Hegemony without Hegemon

Sequence of Minimum Unanimous Conditions to open and name the strata of Infrastructure Space.

It is the case that much of the law today acts as a low-quality selection pressure for ever-deeper technical camouflage insulating used-up core code technologies and strategies. I can point to the sophisticated camouflage on dirty diesel. The tranching around risk values taken unaltered from commercial mortgage products, old actuary numbers in pension funds, and so forth.

We need an ecology of selection pressures that focuses us on transparent vehicles and cutting edge core code technologies and strategies, rather than create some new penalty-based regime like cap and trade that will only provoke more sophisticated violations of the spirit of the law. Such ‘reasoned elaborations of the law’ continue the current situation where an investment need only open a profit window in front of the law’s ability to penetrate its camouflage and close it. In Infrastructure Space, we cannot afford to provoke this profit strategy.

The best model for engineering the legal structures of such an ecology is not a framework of constraints, but a trellis. A path of legal handholds to support outward elaboration.

There should be four, and they should be timed to the strata of the COV of $A \rightarrow B$.

Each of these strata of the long-term investment trajectory $A \rightarrow B$ must be opened and named and defined before it is colonized by the $A \rightarrow B$ and populated by the secondary investment flowing from it.

These minimum unanimous conditions are actionable names for the future structure. They are richly backed with transparent actual technical proposals (e.g. world bank projects), and also celebrate the accomplishments of the previous strata. They are Names for the future structure of Catalytic Resolution. Built for initiation by Obama, Merkel and XI.

If the UAS of infrastructure space is modeled on earth as a cell realizing its organelles (an energy supply for earth is analogous to a chloroplast of a cell), or an ecology realizing its strata, then these Names of Catalytic Resolution must be held apart and less insulated from the larger ecology. They must be negotiated outside of infrastructure space in the democratic space of leaders naming the future visions and aspirations of their peoples in terms of the structural system that will support them. In short, they are biochemically similar to a virus, in the best sense. They can be developed and agreed and then strategically timed, inject their conditions into infrastructure space. Like a brief of what we want to build.

The strata of A→B are briefly named above as

1) Infrastructure: new and reengineered assets of water and electricity. 2) Systems: distribution 3) Economies & Ecologies 4) Consumables and experiences.

They are each opened and celebrated by the corresponding Unanimous Condition:

1) Declaration of World Infrastructural Union, **2)** The Constitution of Systems, **3)** The Articles of Transcalar Endeavour and **4)** Experiential Rights.

Paris will get Humanity ahead of the game if it accomplishes the first. Because of the immigration crisis, Europe and The United States should also ratify the second, so they can provide a vast amount of manual work laying the conduit for their grids in a manner that utilizes the abundance of labor to mitigate the problems of eminent domain: by carefully digging in the pipes.

In brief these sequence of minimum unanimous conditions should be based only on self-evident facts to which all or the vast majority of leaders gathering in Paris can readily agree.

It is important that these conditions recognize what we will become by building these structures. That conditions shape us. And that by building together in infrastructure space, we build ourselves into a culture that pleases god with peace and prosperity. We create jobs improving Gods garden, we create an ecology of good action and endeavor.

1) Declaration of World Infrastructural Union

This states the defacto infrastructural union of earth, our individual inclusion in the infrastructural reality of our shared planet, the economics of eradicating misery, and the economics of cooperating on the production of a new energy and water infrastructure for earth. Basically, the Nobel laureate, the stern report, the NASA report, the World Bank Reports, and so forth. Self-evident economic social benefits and multiplier effects of eradicating misery, building prosperity and reversing climate change.

It will declare Infrastructure space as a zone of peaceful negotiation and cooperation and produce a series of orders and grants to suppliers and researchers and makers. It will create a global pool of shared scientific research for the technologies needed for the 4 strata. It will describe the structure of the Universal Engineered Currency and the Universal Audit Space that will issue it. It will propose the morphing of the World Bank into the Universal Infrastructure Bank for Strata I, and its insulation from US governance. It will create web architecture for the UAS with the possibility of overlapping layers of proposed plans. It will provide universal transparent access to the UAS and encourage humanity to populate it with data, imagery and dreams about the places they live and care about.

It should include a treaty to make peace in Infrastructure Space, and help the assets and interest of the Hydrocarbon system to realize their fiduciary duty. The first is the:

Hydrocarbon energy infrastructure assets and interests value protection agreement.

It provides for an automatic right to transfer pension and other funds interests/shares in the hydrocarbon energy supply to investment in the long term A→B (in the solar energy supply that will replace it.) These shares will be of greater value and quality.

It announces the epitaxial value of the hydrocarbon energy infrastructure of earth: absolute. A tribute to human ingenuity. It names this collective asset as the backing asset of The 2nd Energy Supply of Earth, the back-up energy supply of earth will literally and financially, reinsure the Carbon Neutral Energy Supply. The value of earth's hydrocarbon energy infrastructure is audited to assess the works needed to transform it into a safe and dependable emergency energy supply for earth. An A→B COV will be established to realize this.

The first UEC coins will, uniquely, be derived forward from its precisely audited eventual state as earth's back-up power supply. Irremediable violators need not apply, but most of the antagonist to Energy Supply 2 can be made interests in its accomplishment. The funds raised from this UEC issuance will be disbursed from the infrastructure bank via the UAS to effect the global asset's specific staged reengineering for fast-restart, highest standards of engineering (i.e. non leak valves), and careful mothballing.

Economic Transfer Plans and barter agreements.

Entities with large safe and efficient reserves of hydrocarbons will be transformed into reserves of symbolic value at a set rate. On a case-by-case basis, internal and external controls on their ability to offer these to the UAS > UEC > Market will be agreed. Some reserves are better as a store of symbolic value towards the realization of other values in hydrocarbons, an amazing though toxic material. For underdeveloped nations, direct barter of the remaining oil demand in exchange for manufactured commodities and services should be established to maximize the remaining market value according to relative efficiency, therewith building the foundation for a developed economy.

The greatest enemy of the new Infrastructure becomes a major interest in its completion. Interests receive transfer shares into the COV, Assets receive a forward issuance of UEC to reengineer them into a high standard emergency power supply, at which point the symbolic value of these shares will be depthless, and its issuance to UEC will be tied to the intensity with which we are able to colonize the abstract territories with our financial engineering. The Ink and the oil.

Additional ameliorative will spur the creation of relative advantages in technologies and geolocationality. :

The second Hydrocarbon Treaty will take the form of a series of orders. The order will start as a 10-year oil-for-solar panels exchange deal between Saudi Arabia and the Hanergy Corporation of China. The second contract will be for the purchase of solar electricity between MENA and Europa. The next order is to Russia and Iran and Pakistan to transfer their centrifuge technology into the production of a definitive Gyroscopic Battery Technology. The third order is for the Solar Seas of India, Brazil, Argentina, Mexico, Central and South Africa, and so forth. Those who make batteries and those who make energy will come together in strata 2.

-The Solar, Nuclear and Water Treaties will name the specificities of these technologies legal paths of elaboration and reinsurance requirements.

-Grants for the creation of a universal harmonized nuclear chemistry battery and reinsurance linkage,

-A Vow to elevate all Solar Panels at 3m minimum and 4m standard to insure that land value and use value can be further elaborated, rather than made a dead-end by the exponential elaboration of Solar Energy Surface. Grants will be made to architects and engineers and

gardeners to develop standard and modified structural canopies for the solar seas. No one will ever be homeless or gardenless again.

-That aquifers are an ancient asset that must be sensitively mapped and reengineered. That certain zones of earth have too much water and others need permanent artificial rivers. From this can rise cooperation on ecological engineering stretching to the poles, where we might map stresses to our ice cover and engineer the structure of the ice pack to reduce loss and harvest fresh water. A pipe from Russia's melting permafrost could carry freshwater and gas to central Asia, replenishing the Aral Sea. From Canada's to the Southwest USA.

A universal technical curriculum and school systems is announced. And standardized tests and interviews for jobs in the myriad teams. The creation of plenum engineering teams spanning finance, structure, chemistry and ecology are announced as "stem cells".

2) The Constitution of Systems,

That all humans are included in the infrastructure systems of earth, the infrastructural prerequisites to life. That we all can elaborate and improve our world, and if we so wish, enter that work into the UAS and sell the symbolic value of what we have done in order to further the flow of reinvestment.

Must announce humanity's mastery of long distance electricity and information transmission cable in the form of mass-produced Ballistic graphene transmission cable and switching and nano storage and switching. These technologies are ready to roll for Strata 2. This will be the material handshake between the Arabian Solar Sea and the Iranian Batteries and the Global Transmission grid.

That any human who wants it can join a pipe-laying team, careful digging-in of conduit and path making, encampment tending/cooking/medical care/teaching.

3) The Articles of Transcalar Endeavour

Recognizes the hard science backing our efforts: That we are continuing life's trajectory of colonizing scalar as well as geographic niches. As a species we are building and climbing the strata through threshold conditions to arrive at a new scalar niche we will open to our manifest destiny and fill with prosperous and beautiful and good formations that will make our grandchildren proud, secure, and joyful. We are conquering this stone definitively for Life. We are building its organs! We are all operationally immanent in a garden of systems. Humanity has a new responsibility: we need more designation error.

4) Experiential Rights. This will announce the accomplishment of the prerequisites of experiential rights. It will not name them as a future state to yearn for. It will declare that humanity is in fact exercising its rights to experience the world's knowledge and wonders and beauty and pleasures.

This is the maximum epitaxial value of the infrastructure investment, and it is amidst conditions of peace and prosperity that it reaches maturity and exchangeability with choice and beauty or reinvestment in COV2.

Please contact me for further elaboration or with any questions or useful comments.
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