

## Overview Project C

*"..for the twenty-first century, a system which will protect our economies as far as humanly possible from crises and recessions.."*

– Jesús Huerta de Soto (Banking Reform)

*"Toward a Real Cosmology in the 21st Century."*

– Wallace W. Thornhill (Electric Universe)

*"Very few things happen at the right time, and the rest do not happen at all.*

*The conscientious historian will correct these defects."*

– Herodotus

[bazaarmodel.net](http://bazaarmodel.net) - [mises.org](http://mises.org) - [thunderbolts.info](http://thunderbolts.info) - [opensource.org](http://opensource.org)

To create the environment where we learn *the Art of Being Human*

# Project Consciousness

To be **conscious** of:  
Yourself,  
Your Surrounding,  
of Others,  
of Reality.

*“A judgment of value .. **a man's affective response** to definite conditions of the universe..”*

– Ludwig von Mises

*“...**two** languages, that of science and technique and that of the heart and soul.”*

– Professor B. Glorion

## Haptonomy demonstrates the importance of affection

“Contemporary social evolution, with all the implications of the reign of the image and the tyrannical pressure of effectivity, economy and profit, has shown a profound modification in the development of the affective capacities of the human being and of his disposition to live well and confidently, and this right from early childhood.

This evolution has developed, under pseudorational appearances, that which in each of us tends towards the refusal of the other person, fear, aggression, and violence. In short, it generates and reinforces a dynamic of separation and an increase of the imaginary, in opposition to those forces which aim at cohesion and symbolisation, as much within the human mind as outside, in his relationships with others and with the world around him.

Thus we can note – and not without cause to worry – that for decades now we have been able to talk about an “*effective conscious world*” which dominates an “*affective conscious world*” in such a way that the affective life is strongly curbed if not repressed and this in an ever increasing way: in this “*world of effectivity*” pragmatism and intellectual rationalism reign. There is no room for feelings, emotions: for *affectivity*. The dimension of feeling – and all that concerns the affective life – is considered as lacking in interest and therefore has no place in this world, as it is of no economic or political value. This dimension would only disturb, in a awkward way, the economic processes of development and production.

*Haptonomy* demonstrates that faculties every human being should possess are nowadays more and more under-developed, they lie fallow, or are atrophied, if not totally absent. However, these faculties are of fundamental interest for contacts, interactions and human relationships. It is the *absence of affective confirmation* which hinders their development.”

– Frans Veldman, *Confirming Affectivity, the Dawn of Human Life* [1]

*'..benevolent affection .. the foundation of creativity .. creative human action or entrepreneurial activity..'*

[1] [http://bazaarmodel.net/ftp/Project-C/Haptonomie/NEL220401X02\\_Veldman\\_.pdf](http://bazaarmodel.net/ftp/Project-C/Haptonomie/NEL220401X02_Veldman_.pdf) - <http://www.haptonomie.org/en/>

# Overview Project C

Renaissance of Openness

Version 8.55



- Home Project C: <https://bazaarmodel.net> -

( Front-page picture (from NASA) is [Saturn](#) and the moon Mimas )

*“Keep your eyes on the [stars](#) and your feet on the ground.”*

– Theodore Roosevelt

## **Project C.**

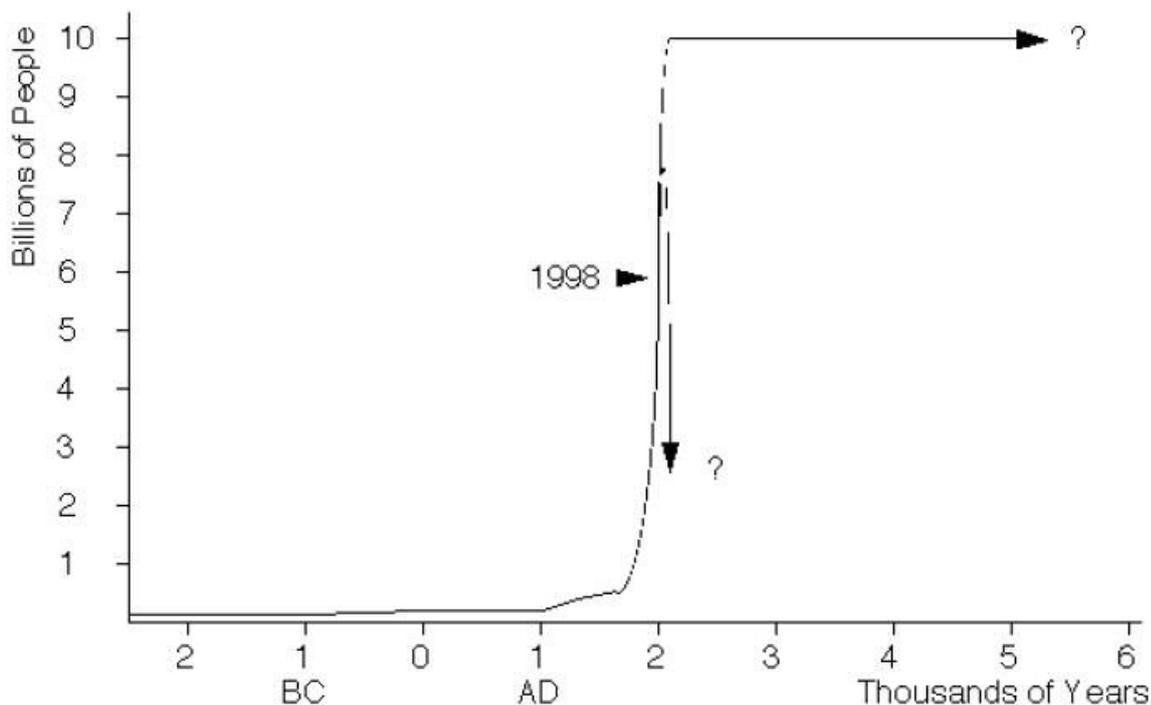
Overview Project C version 8.55

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## Some guidance on the graphics etc.

- The bigger the circle (on pages 9, 11, 13, 15 and 17), the lower it is and the biggest circle is the bottom, or starting point to climb the 'mountain'. The smaller the circle, the higher it is. The smallest one(s) is (are) the top of the 'mountain'.
- ENS means Enterprise Nervous System which is an advanced kind of Grid network with common sense Artificial Intelligence.
- The Bazaarmodel is explained in the thesis Bazaarmodel (Bazaarmangement & Bazaarorganization [1]). The Bazaarmodel is based on Complexity (Theory) [2] with three base rules (open, honesty, freedom). An example of a very successful Bazaarmodel is the GNU/Linux kernel project [3].
- The most important goals in the near term future are fusion energy, ENS and the Creator Unit, which should be small so that every person can have one. The first prototypes of the Creator Unit should be build within the period 2012 - 2030 [4].
- All theories and technologies are now available, except for pico technology.
- Plasma Cosmological insights [5] must be the starting point concerning fusion [6].
- The Bazaarmodel (Teal organization [7] mindset) is the best foundation for abundance in matter (in the form of objects – glasses, cups etc. -, resources – plastics, diamonds, wood – etc.) and knowledge.



- As far as we know, there has never been a time like this. With the start of 2016 we have 7.4 billion people. The past thousands of years we had 'only' 100 million people.

*The challenge is to build an environment where we learn the Art of Being Human.*

[1] <http://bazaarmodel.net> – The Three Core Fields: [Austrian School](#), [Plasma Cosmology](#), [Haptonomy](#)

[2] An introduction: [http://en.wikipedia.org/wiki/Complex\\_systems](http://en.wikipedia.org/wiki/Complex_systems)

[3] More about Linux: <http://www.kernel.org>, <http://www.linux.org>, <http://www.linux.com>

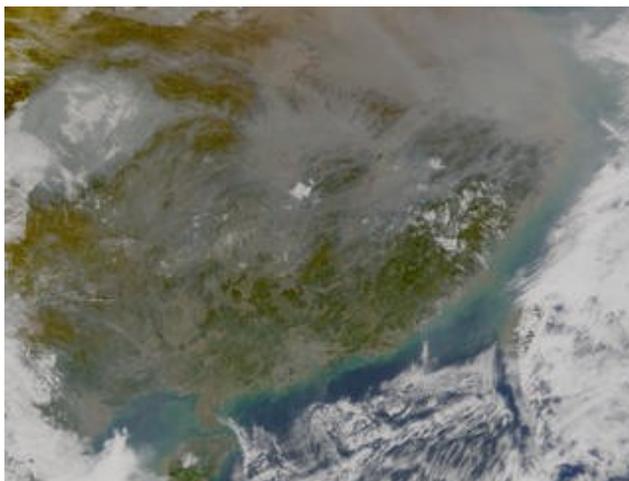
[4] Upgrading our World Production Platform: <https://bazaarmodel.net/phorum/read.php?3,3680>

[5] [plasmauniverse.info/](http://plasmauniverse.info/), [plasma-universe.com](http://plasma-universe.com), [holoscience.com](http://holoscience.com), [thunderbolts.info](http://thunderbolts.info), [electric-cosmos.org/](http://electric-cosmos.org/), ['.the fruits.'](#)

[6] [Focus Fusion](http://Focus.Fusion), <http://lawrencevilleplasmaphysics.com/>

[7] [http://www.reinventingorganizationswiki.com/Teal\\_Organizations](http://www.reinventingorganizationswiki.com/Teal_Organizations), latest news: <http://www.enliveningedge.org/>

## China Haze



NASA satellite image of eastern Asia shows a dense blanket of polluted air over central eastern China -- dense enough that the coastline around Shanghai virtually disappears. The "Asian Brown Cloud" is a toxic mix of ash, acids and airborne particles from car and factory emissions, as well as from low-tech polluters like wood-burning stoves. The Sea-viewing Wide Field-of-view Sensor (SeaWiFS) on board the Orbview 2 satellite captured this image January 10, 2003. Credit: NASA.

# Content

OVERVIEW.....	9
GRID AND SOLAR SYSTEM.....	11
REALITY.....	13
BAZAARMODEL.....	15
PROTOTYPE CREATOR UNIT.....	17
APPENDIX 1: CHALLENGES & CHANGE .....	18
APPENDIX 2: ABRUPT CLIMATE CHANGE.....	19
APPENDIX 3: HOLOGRAMS AND THAN... HOLATOMS.....	20
APPENDIX 4: PROJECT C – POSSIBLE ROADMAP.....	22
APPENDIX 5: HUMAN FEELING, CONTACT & ACTION.....	23
APPENDIX 6: CHILDREN & A NEW KIND OF LEARNING.....	24

*“The empires of the future are the empires of the **mind**.”*

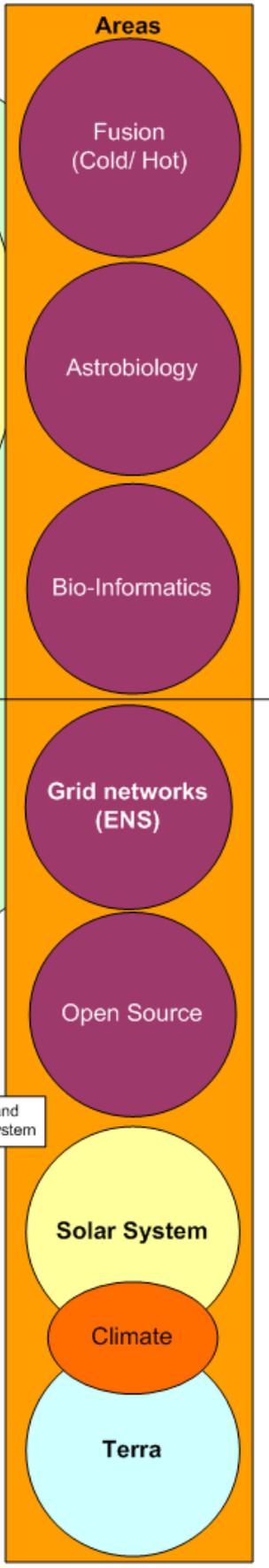
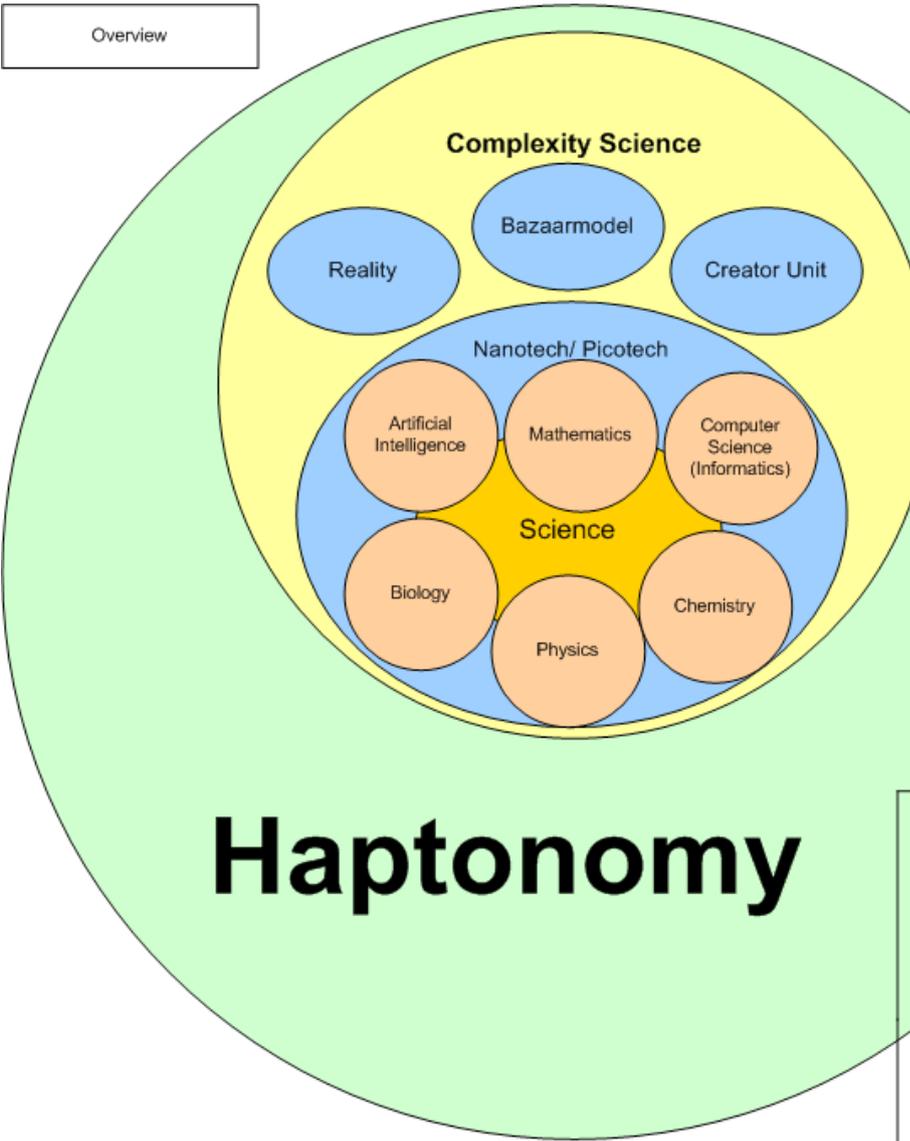
– Sir Winston Churchill

Speech at Harvard University, September 6, 1943

*“First do **no harm**.”*

– Pythagoras

Overview



Grid and Solar System

# Project Consciousness

To be conscious of:  
Yourself,  
Your Surrounding,  
of Others,  
of Reality.



# Overview

**Project C**, to be conscious of Yourself, Your Surroundings, of Others, of Reality. Its essence being *affective human action in the electric universe*; to learn the Art of Being Human [1]. To celebrate life, to feel data, where by confirming once existence starts via *action* & *contact*, activating our nerve cells, processing an electrical stimuli. Thereby creating an empathetical relationship with one another.

The nucleus of all the three objects is feeling-intuition and ratio-intuition. These objects are:

- *Bazaarmodel (Teal management and organizational style in the third millennium)*
- *Creator Unit (lowering the cost of production; material objects almost 'free')*
- *Reality ((inter)subjectivity plays a crucial role, together with energy and data)*

**Complexity Science** is based on complexity [2]. With this style (via *action* & *contact*) of feeling & thinking we can enhance our use of knowledge (creativity, thought and imagination) and go far beyond our current 'scientific' realm. The yellow Complexity Science circle is the foundation for Reality, Bazaar Model and the Creator Unit objects and also for the electrical nanotech and picotech technologies. Complexity is like a painter's pencil which makes it possible to create all the landscapes. *Contact via action is critically important.*

**Nanotech**, and in the near future **picotech**, threads different scientific fields together. There are the 'builder' blocs: Biology, Physics, Chemistry and the 'knowledge' blocs: AI, Mathematics and Computer Science. The boundaries between them are fading fast, for example: DNA computers encompass Computer Science and Biology. Computer Science and Physics join with the Quantum Computers. They *all* are electrical by nature.

**Areas** are hotspots for the coming decades. We need fusion energy to solve the energy problem on this planet. It also makes the Creator Unit, Maglev [3] (mach 5 and faster) and large scale Grid/ENS networks possible. Astrobiology could serve the research into the *electrical* [4] aspect of life itself in the electric universe. Bio-Informatics gives us the insight in the working of organisms (protein research), bacteria, viruses etc. so we can 'battle' AIDS, TBC, malaria, cancer and many other diseases in a more effective way.

**Grid and Solar System:** The grid networks support many (research) areas for a better understanding of reality, for example our Solar System (the interaction between the planets, sun, earth, (earth's) history etc.) and the Grid gives us tools to expand beyond our Solar System. We need to send more (nano) probes [5] in and outside our Solar System for a deeper understanding of the interaction of the Solar System with the outer space environment [6].

*"Coveney and Highfield define complexity as a new way of thinking about the behaviour of interacting units, be they atoms, ants in a colony, neurons firing in a human brain, or people in a society. Complexity reaches far beyond the concept of chaos and represents a profound shift away from the reductive principle that has guided science for centuries.." [7]*

[1] <http://bazaarmodel.net/thoughts/?p=92>, <http://bazaarmodel.net/thoughts/?p=223>

[2] An introduction to Complexity: [http://en.wikipedia.org/wiki/Complex\\_systems](http://en.wikipedia.org/wiki/Complex_systems) – The Institute: <http://www.santafe.edu/>

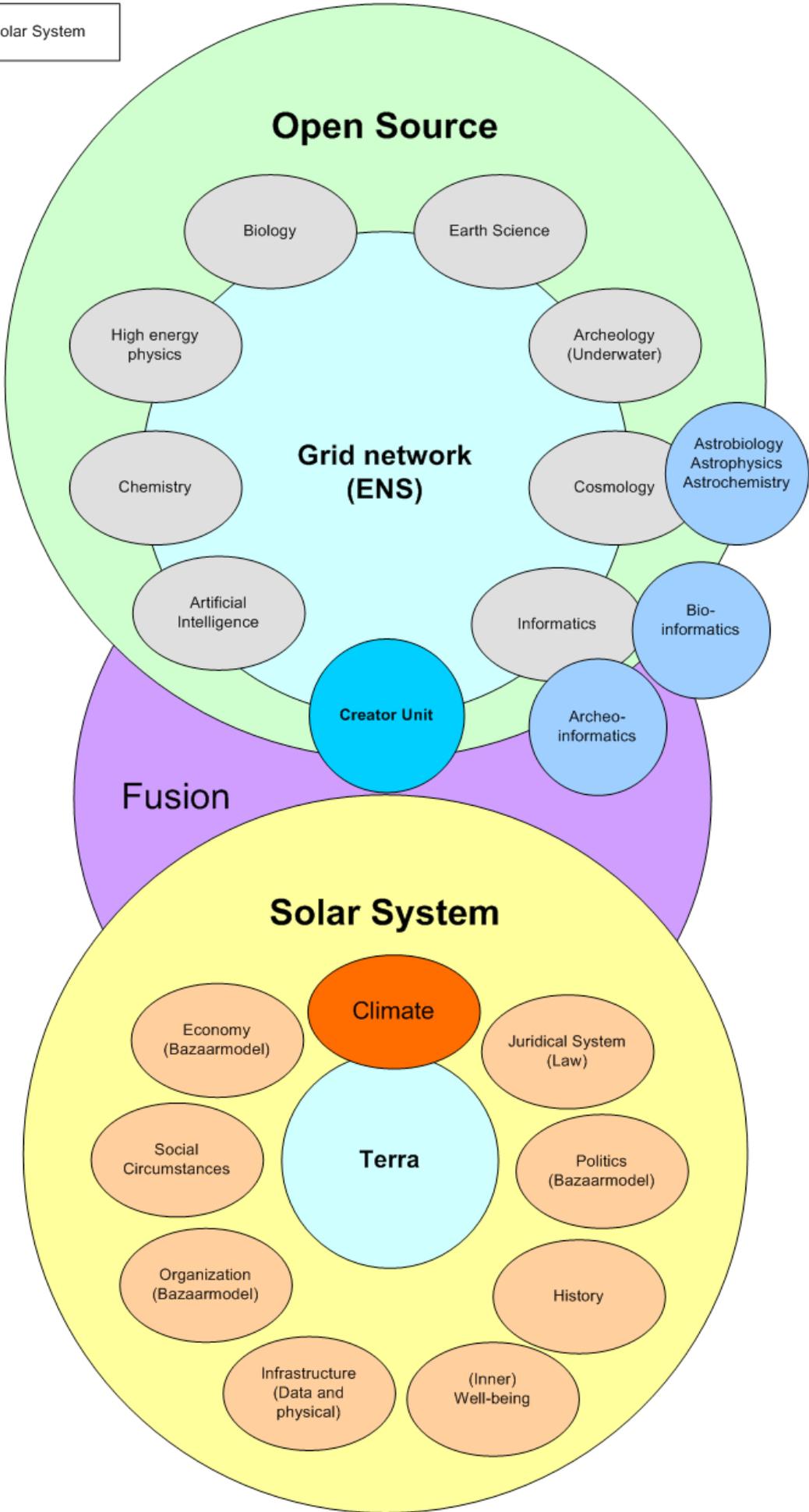
[3] ET3 Hyperloop <http://bazaarmodel.net/phorum/read.php?1,10083>, [http://en.wikipedia.org/wiki/Transatlantic\\_tunnel](http://en.wikipedia.org/wiki/Transatlantic_tunnel)

[4] Electric Biology <http://thunderbolts.info/tpod/2010/arch10/101230biology.htm>

[5] Nanoprobes are small satellites not bigger than a few centimetres.

[6] ..The Solar System <http://www.holoscience.com/news.php?article=7y7d3dn5> (The Electrical Formation of the Solar System)

[7] <http://www.amazon.com/exec/obidos/tg/detail/-/0449910814/103-1730967-3662204>



# Grid and Solar System

**Open Source** is the building block for (a) Grid network(s) [1] and ENS network(s). Grid (ENS) networks deliver pure raw computer power to research reality in a much deeper and broader way. Different fields (**Biology, High Energy Physics, Chemistry, Earth Science**, Archaeology (**Underwater Archaeology**), **Cosmology** and **informatics**) are supported, more fields are possible. Artificial Intelligence (AI) could be an 'extra' with a Grid network. The Enterprise Nervous System (ENS) has integrated AI. The Creator Unit is connected with the ENS for moulds or templates to create matter or objects. The Open Source templates are available for alternation and further development and accessible to everybody.

**Fusion** energy reactors could deliver the juice for our society especially for the infrastructure like Grid networks, Maglevs and Creator Units. Fusion research gives us a better understanding of the 4<sup>th</sup> state of matter; plasma. 99% [2] Of the universe is in a plasma state conducting vast **electro(magnetic) Birkeland currents**.

**Solar System** [3] and electromagnetism (EM) [4] are two subjects which deserve rigorous research. A flux (able to adapt to change; stable is too solid) pre-Solar System society is within reach when we base our 'fields' (**economy, social circumstances, organization, infrastructure, well-being, history, politics, juridical system**) within a broader Solar System spectrum to spur human development. The past 30 million years our Solar System travelled through the Danger Zone; whereby space debris posed an increased risk to life on our planet. We need protection (shielding) against the debris, like asteroids, which could wipe mankind from Earth. We also know that our solar system is engulfed within a huge 'gas' cloud (nebula) called the Local Bubble [5] and that a bigger nebula is pounding on our electric heliosphere [3] which intensifies radiation levels in our Solar System. Earth magnetic field protects us from harmful (outer) space radiation and is weakening [6]. It will bounce back, but we don't know when.

(Abrupt) **Climate** (Change) [7] is linked with the Solar System and the star system in the electric universe. Of all the forces EM [8] has an influence on Earth's climate and Earth's magnet field. EM (via electrical **Birkeland currents**) energize [9] and bound stars, galaxies, Clusters, Superclusters and Great Walls (these are enormous super structures containing trillions upon trillions and trillions star systems) together.

**Terra**, our home planet, is in a period of dramatic change [10], resulting in an increase of **earthquakes** etc. It will be hard and we have to adapt within an economic framework probably based on the Bazaarmodel (**Teal**), fusion energy and the Creator Unit. This economic framework gives us the ability of rapid recovery from and adaptation to our changing environment.

[1] For example; the European Grid Infrastructure <http://www.egi.eu/>

[2] The Plasma Universe <http://www.plasma-universe.com> and <http://plasmauniverse.info/>

[3] Electric Sun Verified <http://www.holoscience.com/news.php?article=74fgmwne> 20 October 2009

[4] Electromagnetism is still a force which is hugely underestimated and plays a critical role in all issues concerning our reality, let it be life, the operation of the universe or other areas. It can't be stressed enough that this research field must expand for a better understanding of how reality operates. Within as well as around us.

[5] Near-Earth Supernovas [http://science.nasa.gov/headlines/y2003/06jan\\_bubble.htm?list495713](http://science.nasa.gov/headlines/y2003/06jan_bubble.htm?list495713)

[6] Within the period of 1900 – 2000 the Earth magnetic fields strength dropped 10%

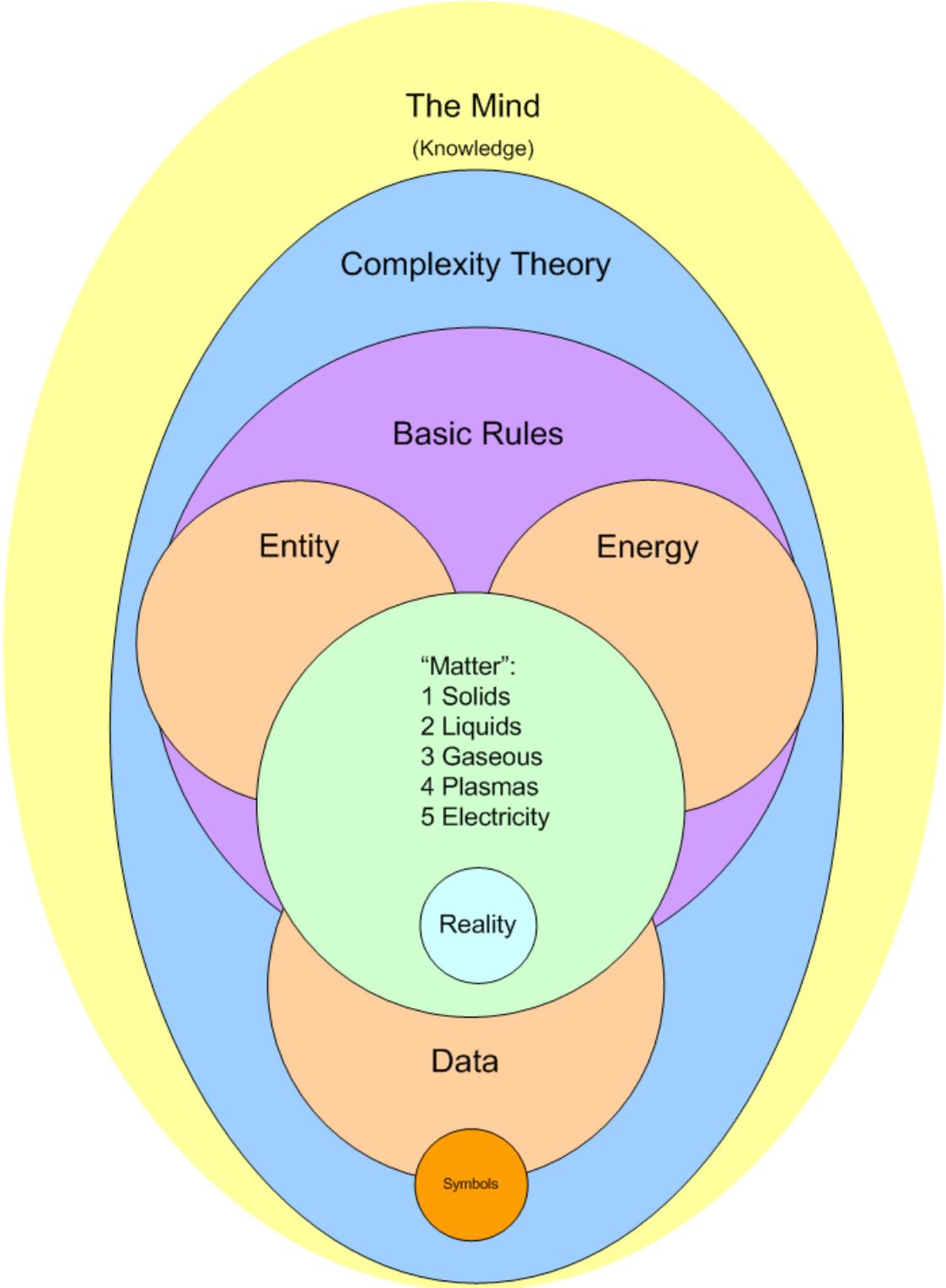
[7] See Appendix 2, Abrupt Climate Change, page 19

[8] Electricity plays a very important role in climate change (of planets (the climate on Mars is also changing fast) and stars)

[9] Its essence being electricity: A Real 'Theory of Everything' <http://www.holoscience.com/news.php?article=gdaqg8df>

[10] A very short introduction to the Earth <http://bazaarmodel.net/phorum/read.php?1.163>

Reality



# Reality

**The Mind** manifests itself via action of feeling (instinct, intuition) and ratio (bounded-ratio) knowledge. Complexity, via *action* & *contact*, is the pencil to mix the basic rules. Basic rules could be described with symbols (possibly Mathematica rules or other kinds of symbols) for use in a 'simulation'. The only constant in Complexity is change (flux). Every individual has a personal *time preference* [1] as 'an essential requisite of action' (Mises) [2] in the electric universe [3].

The three basis rules are **Entity**, **Energy** and **Data**.

- *Entity* is an object (*Sun, planets etc.*) or an agent (much more flexible within the environment, like ants or with intelligence (feeling, reasoning, understanding, thinking, imagination like a human being)).
- *Energy* (*electricity* causing magnetism).
- *Data* (everything is in some sense information. The 'speed' of a particle, number of atoms, strength of a force (Tesla units)) is expressed with symbols.

These three base rules 'create' **matter** in different states. Though one should stress the insight of Carl Menger (1840 - 1921) concerning the human being [4] and subjectivity; self [5] in the electric universe [6].

**Reality** is vastly greater than what we have described with our human **symbols** and it always relies, in a human sense on the individual's judgement of value [7] as is the case in valuing this document and its words, like **Mind** [8] or **Reality**.

*"The complex system approach, which involves "seeing" inter-connections and relationships, i.e., the whole picture as well as the component parts..."*

– D. Sornette [9]

*The conventional view is that matter is primary, and that information, if it exists, emerges from matter. But what if information is primary, and matter is the secondary phenomenon! After all, the same information can have many different material representations in biology, in physics, and in psychology: DNA, RNA; DVD's, videotapes; long-term memory, short-term memory, nerve impulses, hormones. The material representation is irrelevant, what counts is the information itself. The same software can run on many machines.*

*Information is a really revolutionary new kind of concept, and recognition of this fact is one of the milestones of this age."*

– Gregory Chaitin [10]

[1] <http://mises.org/humanaction/chap18sec2.asp>

[2] Ludwig von Mises: Chapter XVIII. Action in the Passing of Time <http://mises.org/humanaction/chap18sec2.asp>

[3] *'...ignoring the fruits of 150 or so years of electrical science.'* - Donald E. Scott

[4] *'...the differences between social science and natural science...'* - Lawrence H. White

[5] *The Austrian School of Economics* (2011), Chapter 3, *The Discovery of the Self; The Theory of Subjective value*

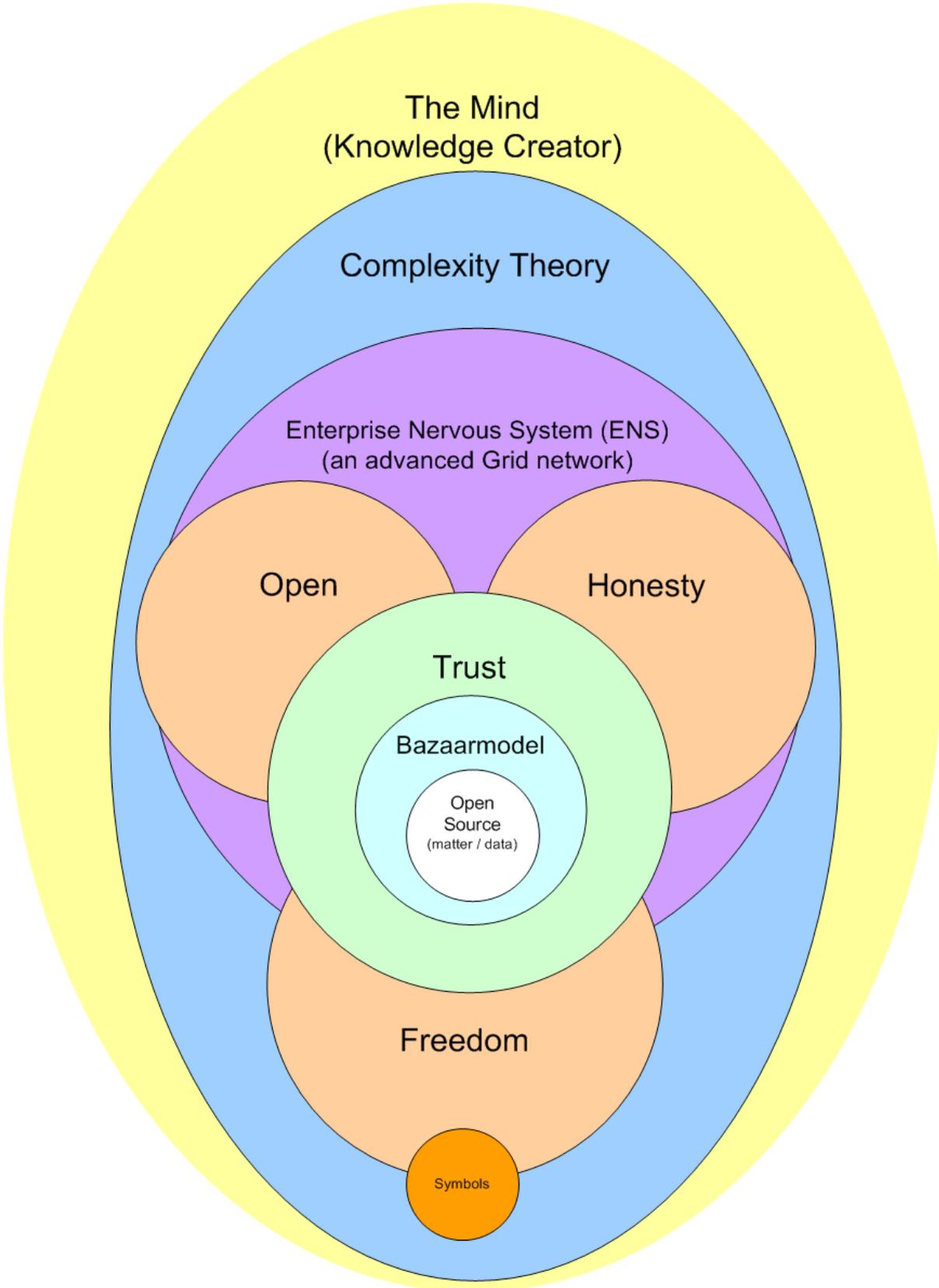
[6] *(The Electric) '...universe is an unending transformation in flux...'*

[7] A judgment of value looks upon things from the point of view of the man who utters it. It does not assert anything about things as they are. It manifests a man's affective response to definite conditions of the universe as compared with other definite conditions... - Ludwig von Mises, <http://bazaarmodel.net/phorum/read.php?3.8555>

[8] "Human action is a *manifestation* of the mind." - Ludwig von Mises

[9] Critical Market Crashes, page 11, <http://arxiv.org/abs/cond-mat/0301543>

[10] The Unknowable chapter 7 <https://web.archive.org/web/20080226140141/https://www.cs.auckland.ac.nz/~chaitin/unknowable/ch7.html>



# Bazaarmodel

**The Mind** is special. The agent that harbours the Mind on this planet is for example a human being. Humans produce the most valuable resource; knowledge [1]. Knowledge can't be 'destroyed', it's not matter. The Mind via *action* & *contact* manipulates (clays) reality.

**Complexity Principle** (comprehending a part of reality, it does not hold theorems in higher esteem than reality or vice versa. Both on equal footing) is the basic principle of the Bazaarmodel with three base rules: **Open**, **Honesty** and **Freedom**.

The **ENS** system will assure a fast and for every one reachable knowledge basin. Everyone can access the ENS. All knowledge is Open Source.

The **Bazaarmodel** has build in base 'safety' rules that will assure a free flow of knowledge. The opposite of the Bazaarmodel is the Cathedralmodel which has Closed, Utopian and Control as its base rules.

A fountain of **trust** pours out of the three base rules. On top of the fountain we have the Bazaarmodel [2], capsuling the Bazaar-management and the Bazaar-organization, serving the entrepreneur [3]. The Bazaarmodel is based on the GNU/Linux project [4] where no one is judged by there race, skin colour, looks, being 'poor' or 'rich', but on merits [5]. You gain influence, instead of power, by your deeds. Linus Torvalds and many others are trusted and highly respected. They do not control. Every one can take a copy of the Linux Kernel and go his/her own way.

The Bazaarmodel harnesses data and matter (Creator Unit) under an Open Source License (GPL, General Public License [6]). A kind of Creator Unit, producing material objects almost for 'free', is a prerequisite for fully implementation of the Bazaarmodel in the real world, respecting private property, a free market and the division of labour.

Briefly the **Symbols**: mathematics was in the past a much broader scientific field. Only the past 300 years it is mainly conveyed in abstract symbolisms and let it be noted that; *'..mathematics and economics are two different things.'* (Mises [7]), that; *'Mathematics is not phycics!'* (Thornhill [8]) and that: *'..over the past century what has been done in mathematics has mostly taken increasing pains to distance itself from any particular correspondence with nature.'* (Wolfram [9]).

*"The industrial age, hierarchical command-and-control institutions that dominate our commercial, political and social lives are increasingly irrelevant in today's exploding diversity and complexity. Behind their endless promise of a peaceful, constructive societal order, which they never deliver, they are increasingly unable to manage even their own affairs, while society commerce and the biosphere slide increasingly into disarray. We are experiencing a global epidemic of institutional failure. We must question the concepts underlying the current structures of organization."* – Dee Hock [10]

[1] **Thymology**: *'..to call the knowledge of human valuations and volitions "thymology."* - Ludwig von Mises

[2] Its foundation being: Affective *Human Action* in the *Electric Universe*; *contact* via *action* - <http://bazaarmodel.net/>

[3] *'..creative human action or entrepreneurial activity..'* - Jesús Huerta de Soto

[4] <http://uwsg.iu.edu/hypermil/linux/kernel/> - <http://www.kernel.org>

[5] Martin Luther King jr., *"I have a dream..."*

[6] <http://www.gnu.org/copyleft/gpl.html>

[7] *Marxism Unmasked*, page 70 - <http://bazaarmodel.net/ftp/Project-C/Economics--Austrian-School/MarxismUnmasked.pdf>  
(comment: [Marxism Unmasked](#))

[8] *'Our Misunderstood Sun ... Mathematics should be the cart behind the horse...'* - Wal Thornhill

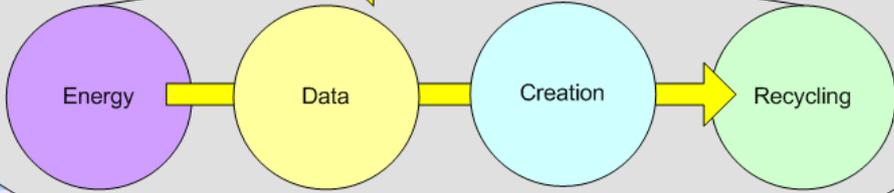
[9] *A New Kind of Science*, page 772 - <http://www.wolframscience.com/nksonline/page-772-text>

[10] homepage: <http://www.chaordic.org/index.html>

Creator Unit

# Complexity Science

## Creator Unit



Fusion [1, 2, 6, 7, 8]:  
Cold fusion [3]  
Hot fusion [4, 5]

The Z machine, Hot Fusion, is able to generate briefly 80 times the energy production today on Earth.

Focusfusion.org is probably the way to go.

Electrical Intel-Grid (intelligent Grid)

OpenFPGA [9] + CYC [10] + Linux [11] distributed

Data Storage in self organizing system with common sense A.I [10]

Communication: RSFQ [16]

Question: How to 'store' the complexity of matter (a cup, spoon, food).. (Answer: simple rules in the form of cellular automats)

Electrical nano(pico) technology

Atom-laser [13][14]. (MIT 1997)

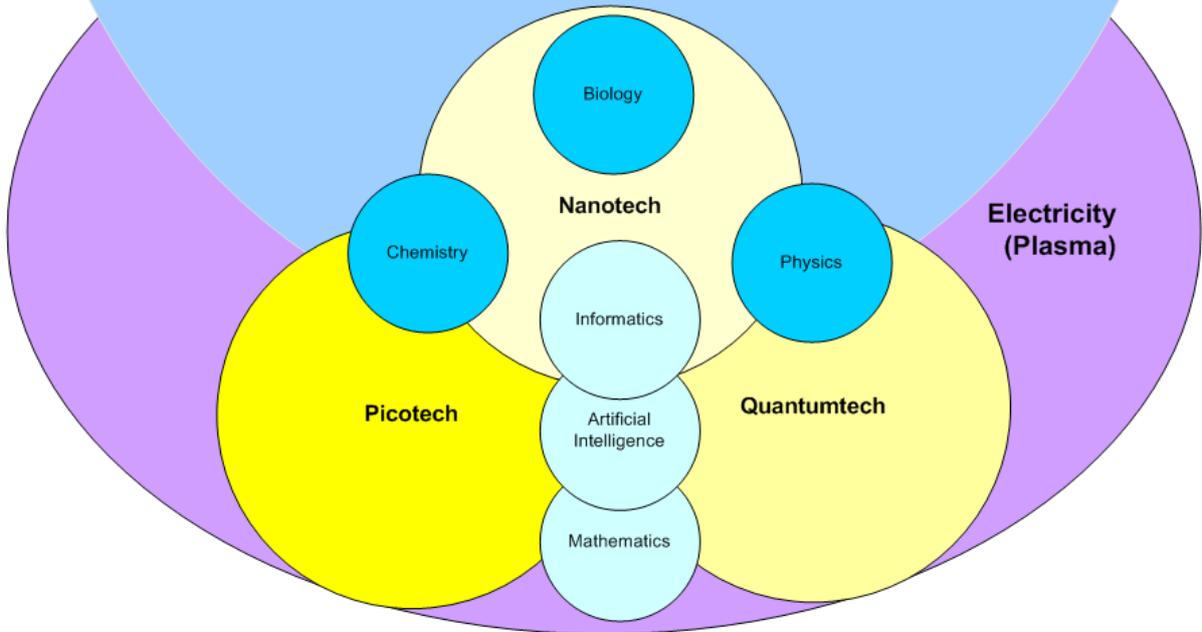
Projection within electric (magnetic) field

"Weaving" atoms in an electrical environment

Electrical nano(pico) technology

Recycling matter (object) into plasma.

'Teleporting' electrons/ atoms back into plasma [15]



# Prototype Creator Unit

The Creator Unit has four modules:

The **Energy** module as thought concept is and *must* be rooted in the knowledge gained by Plasma Cosmologists like Kristian Birkeland [1] and Hannes Alfvén [2]. To come to terms with cold [3] or hot fusion [4, 5] is to come to terms [6] with and acknowledgement of the predictions [7] within the Electric Universe concept; to realize and to become aware of our electric environment [8]. The Electric Energy Module 'serves' and propels the **Data**, **Creation** and **Recycling** modules.

The **Data** module comprises of three units: OpenFPGA (hardware) [9], Cyc (Common sense AI software) [10] and Linux (Operating System) [11] in a distributed network. These three units together form the Enterprise Nervous System (ENS). The system contains moulds (templates) of different objects, matter, etc. which can be changed by an agent. New moulds can be designed when the moulds on the ENS do not satisfy.

The **Creation** module will probably be a great challenge. Still, the infinite and never ending Electric Universe, where matter is *electric* by nature [12], also show the never ending prowess of creation. Therefore, creation is a fourth state of matter, a plasma affair. The Atom Laser [13][14] must be viewed within the *electrical* concept of creation for 'creating' 'material' objects etc.

The **Recycling** module must be envisioned within the electrical concept as well. The goal is to recycle electrical matter (objects) into a state which benefits. To recycle an object into the 4<sup>th</sup> state of matter (plasma) is an option but not always necessary (like food, one could decompose food, becoming a fertilizer.) But more hazardous waste (like nuclear waste) must be recycled back towards a beneficial state via teleportation (entanglement) [15] or utilizing a thorium reactor [17] to clean up *all* nuclear waste within 300 years. This module will only be feasible with huge amounts of calculating power probably available around 2040. But let us be mindful that: '*Physics used to mean investigating the nature and properties of matter and energy.*' – Stephen Smith [18]

[1] And his insights concerning our electric environment: [The Norwegian Aurora Polaris Expedition 1902 – 1903](http://plasmauniverse.info/downloads/BirkelandCosmology.pdf) which hasn't been accepted as main-stream knowledge; <http://plasmauniverse.info/downloads/BirkelandCosmology.pdf> (source and history)

[2] Hannes Alfvén: the Maverick Plasma Astrophysicist - By Ian Tresman <http://bazaarmodel.net/phorum/read.php?3,8061>

[3] Cold fusion or more exactly "chemically assisted nuclear reactions" (CANR) <http://pw1.netcom.com/~storms2/>

[4] Fusion Plasma Physics <http://www.kth.se/ees/omskolan/organisation/avdelningar/fpp>

[5] Fusion and Plasma Physics <http://physics.aalto.fi/en/groups/fusion/> - <http://www.efda.org/>

[6] Like the failure of the Tokamak reactor setup; '*The theory of star formation through fusion reactions is untenable so utilizing the theories of plasma behavior might be a more productive path.*' <http://www.thunderbolts.info/predictions.htm#fus>

Example: [Focusfusion.org](http://focusfusion.org) - <http://lawrencevilleplasmaphysics.com/>

[7] <http://www.thunderbolts.info/predictions.htm> and pending: [http://www.thunderbolts.info/predictions\\_pending.htm](http://www.thunderbolts.info/predictions_pending.htm)

[8] '*..Since lightning as well as the sun consist of visible plasma..*' <http://bazaarmodel.net/phorum/read.php?3,8666>

[9] <http://www.openfpga.org>

[10] OpenCyc <http://www.opencyc.com> (Cycorp: <http://www.cyc.com>) - <http://www.lucid.ai/>

[11] <http://www.kernel.org> - <http://www.linux.org> - <http://www.linux.com> - <http://distrowatch.com/>

[12] '*This simple electrical model of matter has the great virtue of reducing all known forces to a single one – the electric force..*' Wal Thornhill <http://bazaarmodel.net/phorum/read.php?3,8359>

[13] Rudimentary Atom Laser <http://www.cat.gov.in/newsletter/news/lasernews/ln971/atomlase.html>

[14] The Atom Laser <http://www.bazaarmodel.net/Onderwerpen/atomlaser/index.html>

[15] Quantum "Teleportation" [http://en.wikipedia.org/wiki/Quantum\\_teleportation](http://en.wikipedia.org/wiki/Quantum_teleportation)

[16] Rapid Single-Flux Quantum pulse [https://en.wikipedia.org/wiki/Rapid\\_single\\_flux\\_quantum](https://en.wikipedia.org/wiki/Rapid_single_flux_quantum)

[17] 'Thorium reactor: cleaner, safer and sustainable nuclear energy within sight' <http://bazaarmodel.net/phorum/read.php?1,10183>

[18] [Andromeda's Mother](http://en.wikipedia.org/wiki/In_silico) (context). In silico has its limits ([http://en.wikipedia.org/wiki/In\\_silico](http://en.wikipedia.org/wiki/In_silico))

## Appendix 1: Challenges & Change

- Weakening Earth Magnetic Field (from 1900 - 2000 period there was a 10% weakening of the Magnetic Field [1][2]).
- Increasing global disruption caused by electrical [3] climate change (another planet is Mars [4]).
- Coral reefs, fishing grounds, etc. are declining in a fast rate, caused by over fishing and pollution and a lack of understanding concerning the nature of electrical climate change (like the electric nature of weather. [5])
- Pollution in Asia (especially India) is rampant, causing much destruction on the environment. The Asia haze [6] is growing at an alarming rate.
- Water scarcity [7] in the North America (USA; more than 40 states do not have enough water) [8], Asia (more than 400 of the China's 672 cities are short on water).
- Bacteria diseases (TBC, 1/3 of the global population is infected with TBC), the biggest killers of human beings, are almost immune to antibiotics; viruses (AIDS, Malaria) are the new pest.
- Poverty and the growing divide between rich and poor, digital and non-digital is growing. The cause is a lack of sound economic understanding [9].
- The global monetary system is fragile. The debt load is quite severe [10].
- Drastic demographic changes in this century [11].
- Peak oil [12] and Peak Credit [13].
- Energy, like food or oil, supports human conduct. The lack of subjective economical insight and the scarcity of energy causes instability, like financial instability.
- You. Of how to handle change, within you, around you and yourself.

*“Most human beings have an almost infinite capacity for taking things for granted.”*

– Aldous Huxley

*“If a man takes no thought about what is distant, he will find sorrow near at hand.”*

– Confucius

[1] International Real-time Magnetic Observatory Network [http://www.intermagnet.org/Welcom\\_e.php](http://www.intermagnet.org/Welcom_e.php)

[2] <http://www.bazaarmodel.net/phorum/read.php?1,172>

[3] Global Warming in a Climate of Ignorance <http://www.holoscience.com/news.php?article=aapprbh6>

[4] Once Upon a Water Planet [http://science.nasa.gov/headlines/y2002/12mar\\_waterplanet.htm?list495713](http://science.nasa.gov/headlines/y2002/12mar_waterplanet.htm?list495713)

[5] Electric Weather <http://www.holoscience.com/news.php?article=9eq6g3aj> ('The following excerpts come from a report that appeared in the Institute of Electrical and Electronics Engineers (IEEE) magazine, SPECTRUM, for April. The report demonstrates that when science has lost its way, engineers must use their intuition to make progress.')

[6] CHINA HAZE [http://svs.gsfc.nasa.gov/stories/china\\_20030110/index.html](http://svs.gsfc.nasa.gov/stories/china_20030110/index.html)

[7] <http://www.un.org/waterforlifedecade/scarcity.html>

[8] Paleoclimate Drought Resources <http://www.ngdc.noaa.gov/paleo/drought.html>

[9] The Austrian School insights show the why of the current day distorted global financial system; [...the theorem of the economic impossibility of socialism ... is fully applicable to central banks..](http://www.theoildrum.com) - Jesús Huerta de Soto

[10] The global debt clock [http://www.economist.com/content/global\\_debt\\_clock](http://www.economist.com/content/global_debt_clock)

[11] Long-Term Global Demographic Trends: Reshaping the Geopolitical Landscape

<http://www.bazaarmodel.net/Project-C/web/Extreme-growth/Long-Term-Global-Demographic-Trends.pdf>

[12] <http://www.theoildrum.com/>

[13] <http://bazaarmodel.net/phorum/read.php?3,8569>, <http://bazaarmodel.net/phorum/read.php?1,8399>

## Appendix 2: Abrupt Climate Change

*Over the past decade or so, there has been a shift-inevitably labelled a "paradigm shift"-in the way scientists regard the Earth's climate. The new view goes under the catchphrase "**abrupt climate change**," although it might more evocatively be called neo-catastrophism, after the old, Biblically inspired theories of flood and disaster. Behind it lies no particular theoretical insight-scientists have, in fact, been hard-pressed to come up with a theory to make sense of it-but it is supported by overwhelming empirical evidence, much of it gathered in Greenland. The Greenland ice cores have shown that it is a mistake to regard our own, relatively benign experience of the climate as the norm. By now, the adherents of neo-catastrophism include virtually every climatologist of any standing.*

*Abrupt climate changes occurred long before there was human technology, and therefore have nothing directly to do with what we refer to as global warming. Yet the discovery that for most of the past hundred thousand years the **Earth's climate has been in flux, changing not gradually, or even incrementally, but violently and without warning**, can't help but cast the global-warming debate in new terms. It is still possible to imagine that the Earth will slowly heat up, and that the landscape and the weather will gradually evolve in response. But it is also possible that the change will come, as it has in the past, in the form of something much worse.*

*One night, I was sitting in the geodesic dome at North GRIP with Steffensen. He was coming to the end of a month on the ice, and had the weatherbeaten look of someone who has spent too long at sea. "**If you look at the paleoclimatic output of ice cores, it has really changed the picture of the world, our view of past climates, and of human evolution**," he said, while, next to us, a group of graduate students played board games and listened to the soundtrack from "Buena Vista Social Club." "Now you're able to put human evolution into a climatic framework. You can ask, Why did human beings not make civilization fifty thousand years ago? You know that they had just as big brains as we have today. When you put it in a climatic framework, you can say, Well, it was the ice age. And also this ice age was so climatically unstable that each time you had the beginning of a culture they had to move. Then comes the present interglacial-ten thousand years of very stable climate. The perfect conditions for agriculture. If you look at it, it's amazing. Civilizations in Persia, in China, and in India start at the same time, maybe six thousand years ago. They all developed writing and they all developed religion and they all built cities, all at the same time, because the climate was stable. I think that if the climate would have been stable fifty thousand years ago it would have started then. But they had no chance."*

– Elizabeth Kolbert *Ice Memory* <http://bazaarmodel.net/Onderwerpen/civArticsklimat/index.html>

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'The Sun is undergoing a power surge.'

- [Global Warming in a Climate of Ignorance](#) -

## Appendix 3: Holograms and than... Holatoms

- **Laser**

From Wikipedia (<http://www.wikipedia.org>), the free encyclopaedia:

'Laser [1] was originally an acronym for "Light Amplification by Stimulated Emission of Radiation". It uses a quantum mechanical effect, stimulated emission, to generate a very collimated, monochromatic and coherent beam of light.'

Common light sources, such as the electric light bulb emit photons in all directions, usually over a wide spectrum of wavelengths. The light is also incoherent, i.e., there is no fixed phase relationship between the photons emitted by the light source. By contrast, a laser emits photons in a narrow, well-defined beam of light. The light is often near-monochromatic, consisting of a single wavelength or color, and is highly coherent, and is often polarised.'

- **Holography**

From Wikipedia (<http://www.wikipedia.org>), the free encyclopaedia:

'Holography [2] (from the Greek, holos whole + graph writing) is the science of producing holograms, an advanced form of photography in which allows an image to be recorded in three dimensions.'

Holography was invented in 1947 by Hungarian physicist Dennis Gabor (1900-1979), for which he received the Nobel Prize in physics in 1971. The discovery was a serendipitous result from research into improving electron microscopes at the British Thomson-Houston Company, and field did not really advance until the invention of the laser in 1960.'

- **Holograms (photons) and than holatoms (atoms)**

This can't be stressed enough; we need to become aware of our *electric* environment [3], this could be enormously helpful to come to terms with the electrical forces [4] (gravity being a residue electrical force) and matter is a state of electrical energy. The tools, like a laser, are electrical tools, utilized within an electrical environment.

So therefore holograms could be created within an electrical setup; photon lasers beaming a 'quantity' or 'wave' of focused light. I believe we could create a (electrical) material (object(s)), a holatom with atom lasers [5][6]. This will stretch our technology to the limits... And beyond. So around 2020 we could create a basic Creator Unit to produce crude raw materials. Around 2050: unlimited [7] amounts of resources of any sort or type. The only limit is your imagination [8].

- **Engines of Creation - The Coming Era of Nanotechnology**

COAL AND DIAMONDS, sand and computer chips, cancer and healthy tissue: throughout history, variations in **the arrangement of atoms** have distinguished the cheap from the cherished, the diseased from the healthy. Arranged one way, atoms make up soil, air, and water; arranged another, they make up ripe strawberries. Arranged one way, they make up homes and fresh air; arranged another, they make up ash and smoke.

**Our ability to arrange atoms lies at the foundation of technology.** We have come far in our atom arranging, from chipping flint for arrowheads to machining aluminium for spaceships. We take pride in our technology, with our lifesaving drugs and desktop computers. Yet our spacecraft are still crude, our computers are still stupid, and the molecules in our tissues still slide into disorder, first destroying health, then life itself. For all our advances in arranging atoms, we still use primitive methods. With our present technology, we are still forced to handle atoms in unruly herds.

But the laws of nature leave plenty of room for progress, and the pressures of world competition are even now pushing us forward. For better or for worse, **the greatest [electrical] technological breakthrough in history is still to come** [9].

*"One of the most frustrating things about many areas of science and engineering today is that we know the basics but don't know how to put them together. We know a great deal about how atoms interact, but we aren't so sure about how to combine them to make a 'big picture' of matter..."*

– Kurtkilgor. 2003 <http://books.slashdot.org/books/03/01/22/1559239.shtml?tid=134>

*"To have any hope of understanding our future, we must understand the consequences of assemblers, disassemblers, and nanocomputers. They promise to bring changes as profound as the industrial revolution, antibiotics, and nuclear weapons all rolled up in one massive breakthrough. To understand a future of such profound change, it makes sense to seek principles of change that have survived the greatest upheavals of the past. They will prove a useful guide".*

– K. Eric Drexler

[1] <http://www.wikipedia.org/wiki/Laser>

[2] <http://www.wikipedia.org/wiki/Holography>

[3] (Electric Universe) A Real 'Theory of Everything' - By Wal Thornhill

[4] (Electric Universe) 'Gravity is an exhausted and bankrupt concept. A higher, more comprehensive foundation is needed.'

[5] Rudimentary Atom Laser <http://www.cat.gov.in/newsletter/news/lasernews/ln971/atomlase.html>

[6] The Atom Laser <http://www.bazaarmodel.net/Onderwerpen/atomlaser/index.html>

[7] 'There is no reason to suppose that this process will come to a halt short of reaching the Garden of Eden, where all scarcity has disappeared' – Hans-Hermann Hoppe '[...there must be prior savings and investment...](#)'

[8] The Human Mind <http://mises.org/books/ufofes/ch1~2.aspx>

[9] "The World Made New" [http://e-drexler.com/d/06/00/EOC/EOC\\_Chapter\\_1.html](http://e-drexler.com/d/06/00/EOC/EOC_Chapter_1.html)

# Appendix 4: Project C – Possible Roadmap

## Period 2003 – 2012 (A New Dawn – Gone are the Days of Darkness)

- **Complexity** (Tool: electrical nanotech. Language: The Heart & Soul)
- **High Noon Project (Global20) [1]** (Tackling 20 Global Problems)
- **Global Monetary System** (Start transition [2] - Global Gold Standard as a Barometer)
- **Global health care system** (Tackling AIDS, Malaria, TB, Hepatitis, etc.)
- **Start Bazaarmodel implementation** (For example: Global Issues Networks [3] (GIN))
- **Start Maglev projects** (World-wide – global Maglev railway development)
- **Developing prototype Creator Unit** (Models (Moulds) and simulations)
- **Start Project Solar System** (Extensive research – nano-droids, satellites etc.)
- **Project C - MDE [4]** (Fusion Infrastructure, ENS Infrastructure, Creator Unit Infrastructure)

## Phase 1: 2012 – 2022 (Profound Builders Era – The beginning of Abundance)

- **Global Monetary System** ('..transition toward the only world financial order..' [5])
- **Mass testing prototype Creator Units** (Start developing Creator Unit 2 a.k.a. Abundance)
- **Bazaarmodel (Data / Energy) – Mankind--The Individual [6] and The Whole--is the Centre**
- **Fusion Energy** (Fossil Fuels and Nuclear Energy gone with the electrical wind [7])
- **Info-economics** (Knowledge is the Core – Understanding its manifesto – Feeling its essence)
- **ENS II Project** (Unlocking the full Potential of the Mind of mankind)
- **Decade of Preparation of Maglev Infrastructure System** (Going Mach 5 [8])
- **Deep Space Exploration Project** (Moon landing etc., Electromagnetic propulsion [9, 10])

## Phase 2: 2022 – 2032 (Eye opener – The Electric Universe)

- **Firmly based Electrical 'Tesla' Model**
- **Plasma Universe** (*Electromagnetism*)
- **Deep Space Exploration** (Extensive research)
- **Discover ourselves** (History, Reality etc.)
- **Space Colonies**
- **Super Space Telescopes**
- **Start Earth Shield Project**

## Phase 3: 2032 – ∞ (Awakening – Destiny in Our Own Hands)

- **Electric Magnetic Field Adaptation**
- **Earth Shield** (Absorbing Solar and Interstellar radiation and climate change)
- **The True Open Source Renaissance**
- **Humanity as a Space Race**
- **Exploring The Electric Solar System and Beyond** (Electric Sun Verified [11])
- **A continuous improvement of Everyone within the Infinite Electrical Universe (All)**

[1] **High Noon**: 20 Global Problems, 20 Years to Solve Them: <https://globalissuesnetwork.org>

[2] Beginning of '[..international financial reform..](#)' - Jesús Huerta de Soto

[3] <https://globalissuesnetwork.org>

[4] Project C - Matter Data Energy <http://bazaarmodel.net/main/htm/project-c-MDE.php>

[5] '[..a process of transition toward the only world financial order..](#)' - Jesús Huerta de Soto

[6] [The Austrian School of Economics](#) (2011), Chapter 3, *The Discovery of the Self; The Theory of Subjective value*

[7] Electric Weather <http://www.holoscience.com/news.php?article=9eq6q3aj>

[8] ET3 <http://bazaarmodel.net/phorum/read.php?3,9666>

[9] The Lifter Project <http://jnaudin.free.fr/lifters/main.htm> and <http://jnaudin.free.fr/lifters/patlinks.htm>

[10] Space and terrestrial transportation and energy technologies for the 21st century by Professor Theodore C. Loder  
<http://users.erols.com/iri/Loder.PDF>

[11] <http://www.holoscience.com/news.php?article=74fgmwne>

## Appendix 5: Human feeling, contact & action

### Our reality (of feeling and analyzing)

1. **The Art of Being Human:** *Haptonomy*<sup>1</sup> (*Affectivity*)
2. **Our living environment:** *Plasma Universe*<sup>2</sup> (*Electricity*)
3. **Our economical environment:** *Austrian School*<sup>3</sup> (*Praxeology*)
4. **No boundaries or borders:** *Openness*<sup>4</sup> (*Open Source*)
5. **Mathematics:**<sup>5</sup> *Complexity Science* (*I and We*)

### Keyword: electricity

1. Our nerve cells process electric signals, generated by a thought, touch or brain wave activity.
2. Generating massive amounts of electricity becomes feasible with fusion energy. Whereby plasma, the fourth state of matter, and electromagnetism are the basic building blocks for building a fusion energy setup, like [LPPFusion](#) or [Aureon Energy \(Safire\)](#).

### Direction: Individual learning

A specialized computer, serving the learning material, which is particular suited for interacting with a human being who interacts with the learning material. This special computer, which could be in a form of a book, is able to relate and partner itself with a human, like a child<sup>6</sup> or an adult.

Individual learning for everyone becomes attainable by utilizing the contributions made by [Alfred Bork](#) (1926 – 2007).

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1 [Haptonomy](#) (Affective confirmation of oneself and others: to truly feel).

2 [The Electric Universe](#) (In the beginning was the plasma, the fourth state of matter).

3 [Human Action](#) (Humans engage in purposeful action).

4 [The Silva Method](#) (A pragmatic form of meditation, whereby one becomes aware of the power of thinking, questioning and action).

5 Specifically [A New Kind of Science](#). Utilizing all of our senses (like touch) more deeply by broadening mathematics (with cellular automata). Our body saves (stores) what it senses.

6 [Children & A New Kind of Learning](#).

## Appendix 6: Children & A New Kind of Learning

“The new kind of science in this book represents a unique educational opportunity. For it touches an immense range of important and compelling everyday phenomena and issues in science, yet to understand its key ideas requires no prior scientific or technical education. So this means that it is potentially realistic to use as the basis for an overall introduction to the ideas of science. And indeed having understood its basic elements, it becomes vastly easier to understand many aspects of traditional science, and to see how they fit into the whole framework of knowledge.

*...with good presentation, surprisingly young children are able to grasp many key ideas in this book—even if their knowledge of mathematics does not go beyond the simplest operations on numbers.*

Over the past fifty or so years traditional mathematics has become a core part of education. And while its more elementary aspects are certainly crucial for everyday modern life, beyond basic algebra its central place in education must presumably be justified more on the basis of promoting overall patterns of thinking than in supplying specific factual knowledge of everyday relevance. But in fact I believe that the basic aspects of the new kind of science in this book in many ways provide more suitable material for general education than traditional mathematics. They involve some of the same kinds of precise thinking, but do not rely on abstract concepts that are potentially very difficult to communicate. And insofar as they involve the development of technical expertise, it is in the direction of computing—which is vastly more relevant to modern life than advanced mathematics.”

— Stephen Wolfram, *A New Kind of Science*, page [855](#)

**The Treasure - Victory of the Heart**

**Context: *Two more keys...***

## **It's always darkest before the dawn**

*"It is possible that this new era also means a partial return to more understandable physics. ...The increased emphasis on the new fields mean a certain demystification of physics. ...It was the wonders of the night sky, observed by Indians, Sumerians or Egyptians, that started science several thousand years ago. It was the question why the wanderers - the planets - moved as they did that triggered off the scientific avalanche....we may also see in the sky an [aurora](#), which is a cosmic plasma, reminding us of the time when our world was born out of plasma. Because in the beginning was the plasma."*

— Hannes Alfvén, Plasma physics, space research and the origin of the solar system, [Nobel Lecture](#), December 11, 1970

*"I had become intensely interested in electricity under the stimulating influence of my professor of physics, who was an ingenious man and often demonstrated the principles by apparatus of his own invention. ...I wanted to know more of this wonderful force; I longed for experiment and investigation and resigned myself to the inevitable with aching heart."*

— Nikola Tesla, [The Strange Life of Nikola Tesla](#)

*"[Haptonomy](#) is neither a method nor a technique but the Art of Being Human."*

— Frans Veldman, [Confirming Affectivity, the Dawn of Human Life](#)