

PSYCHOHISTORY

and

**HUMANITY'S
INTERSTELLAR FUTURE**

**NEVER DOUBT THAT A SMALL GROUP
OF THOUGHTFUL, COMMITTED,
CITIZENS CAN CHANGE THE WORLD.
INDEED, IT IS THE ONLY THING THAT
EVER HAS.**

(Margaret Mead)

A night sky with a starry foreground and a bright star in the center, with three silhouetted figures standing on a beach looking out at the ocean.

**IT IS THE MANDATE OF SCIENCE
TO EXPLAIN THE PHYSICAL UNIVERSE**

**IT IS THE MANDATE OF RELIGION
TO PLACE HUMANITY WITHIN THE CONTEXT
OF THAT EXPLANATION**

PHASE AND METASYSTEM TRANSITIONS IN THE HISTORY OF THE UNIVERSE

(a) regarding **nucleation** and **structure**:

(CHAOS → HADRON → LEPTON) → NUCLEAR → || → ATOMIC →
(GALACTIC → STELLAR → PLANETARY) →
MOLECULAR → BIOLOGICAL → (SYNTHETIC)...

and (b) regarding **matter**:

PLASMIC (primal chaos) → HADRON ((proton/neutron/meson) →
LEPTON (electron/neutrino) → || → ATOMIC {(elemental) → (chemical → organic)} → SYNTHETIC ...

where '||' refers to the moment of photon-decoupling or recombination. Thus the history of the Universe to date comprises **3 eras** divided by **2 phase transitions**:

(c) **3 eras**:

PLASMA-DOMINATED → RADIATION-DOMINATED → || → MATTER-DOMINATED

and (d) **2 phase transitions**:

(PLASMA-DOMINATED → RADIATION-DOMINATED) → || →
(RADIATION-DOMINATED → MATTER-DOMINATED)

with the matter-dominated era further subdivided into **3 metasystem transitions**:

- (e) 1. {ATOMIC (elemental) → CHEMICAL}
2. {CHEMICAL → ORGANIC}
3. {ORGANIC → SYNTHETIC (technological)}

**WE LIVE IN A SINGLE UNIVERSE
CREATED ONCE
AT A SINGLE INSTANT IN TIME**

**THIS UNIVERSE WILL ONE DAY
COME TO AN END**

**OUR OWN DESTINY AS SENTIENT BEINGS
IS BOUND UP WITH THAT OF THE UNIVERSE**

It was the very ambiguities and contradictions inherent in the Judaeo-Christian construct that, in forcing a creative response to ‘living in the world’, effectively catalysed the emergence and evolution of a recursively self-enhancing scientific and technological culture.

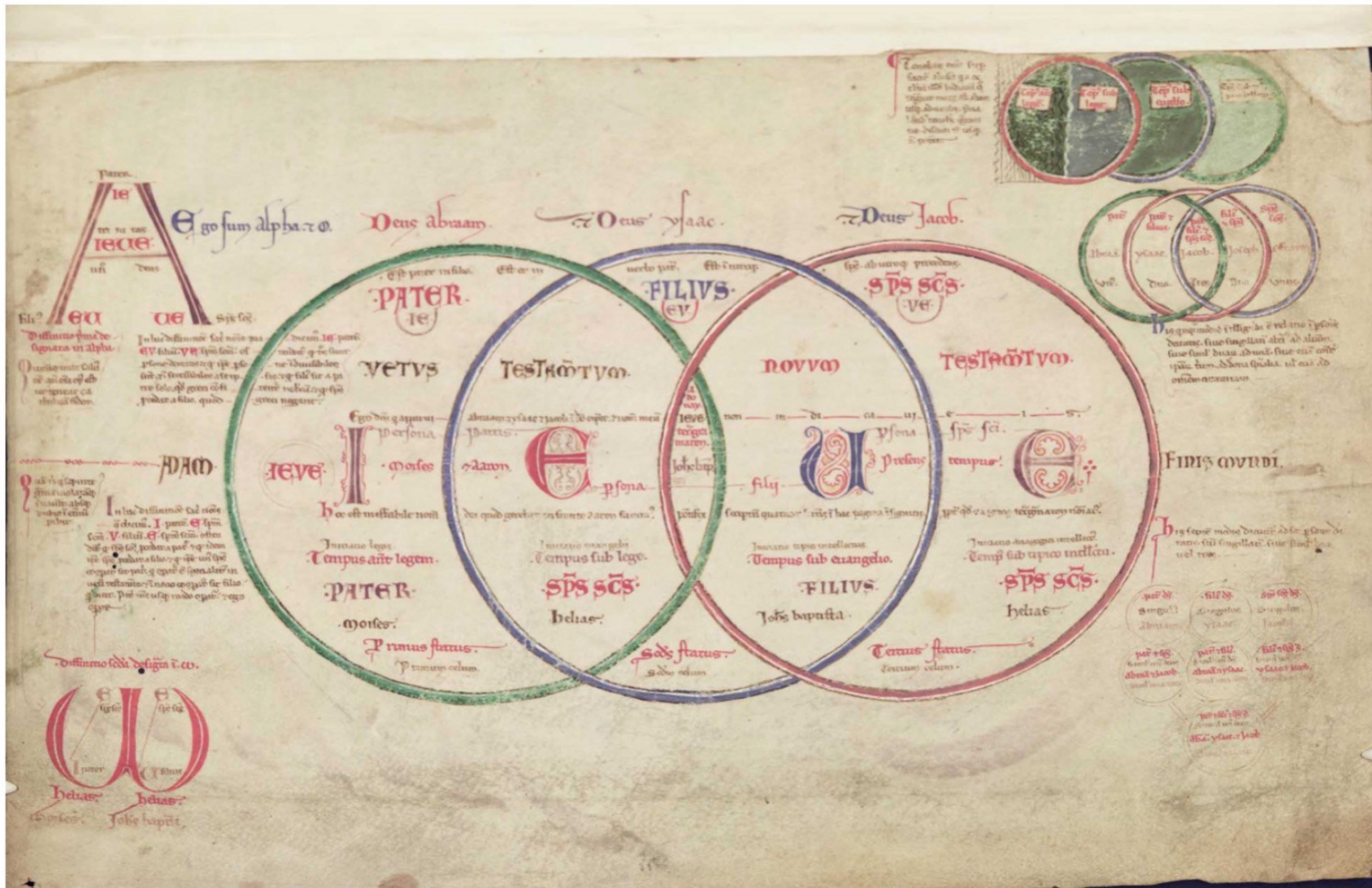


**THE 12TH CENTURY
REFORMATION**

RIEVAULX ABBEY

one of England's most powerful
Cistercian monasteries.

The Joachimite Prophecies

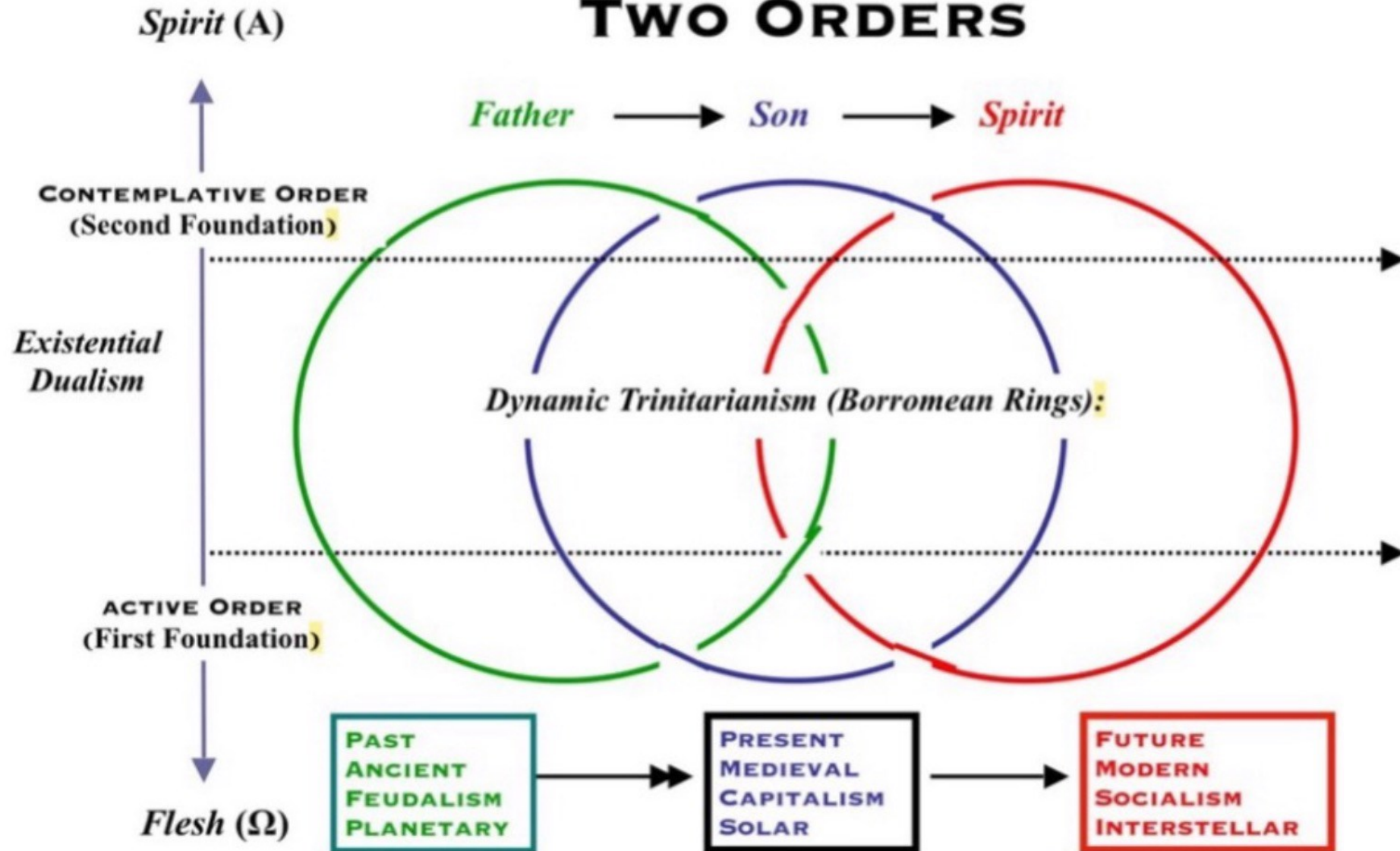


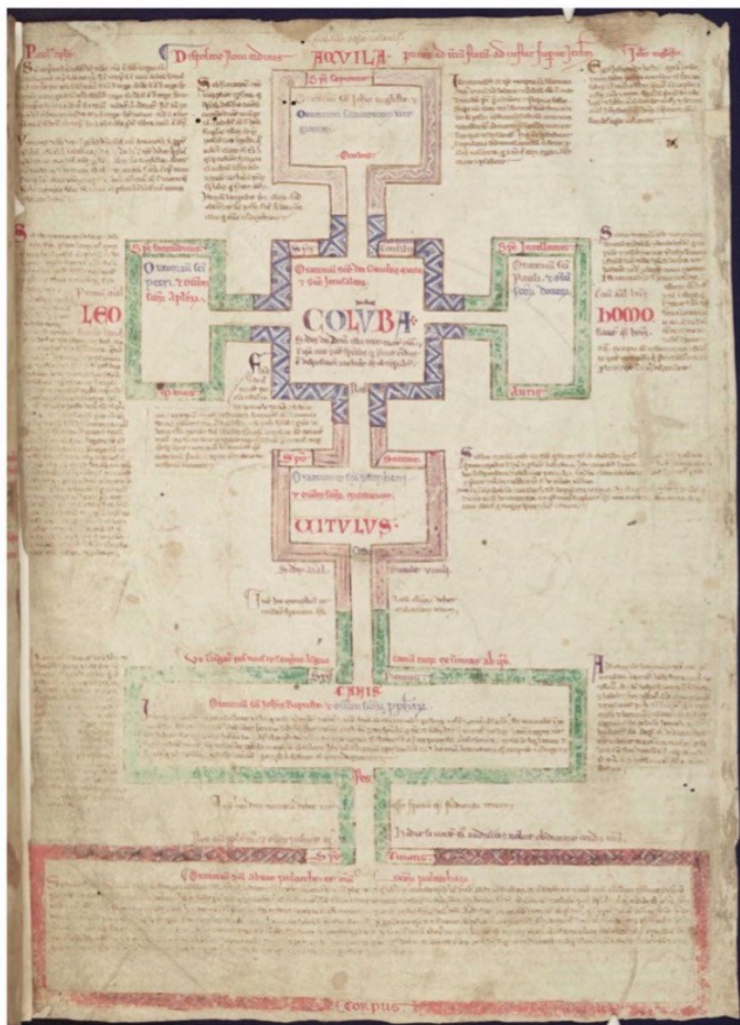
**The Joachimite Prophecies:
the *Triplex Aetatum* of trinitarian circles enclosing the
Tetragrammaton (from the *Liber Figurarum*)**

THREE AGES

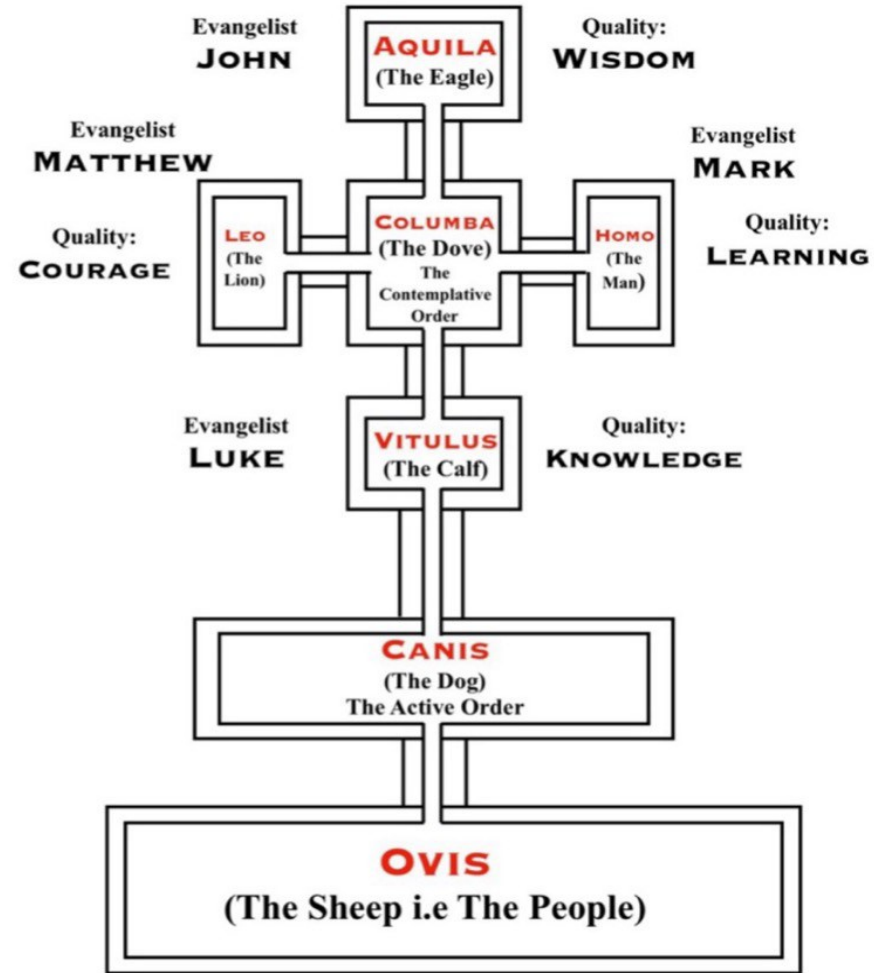
catalsed by

TWO ORDERS





a) original illumination

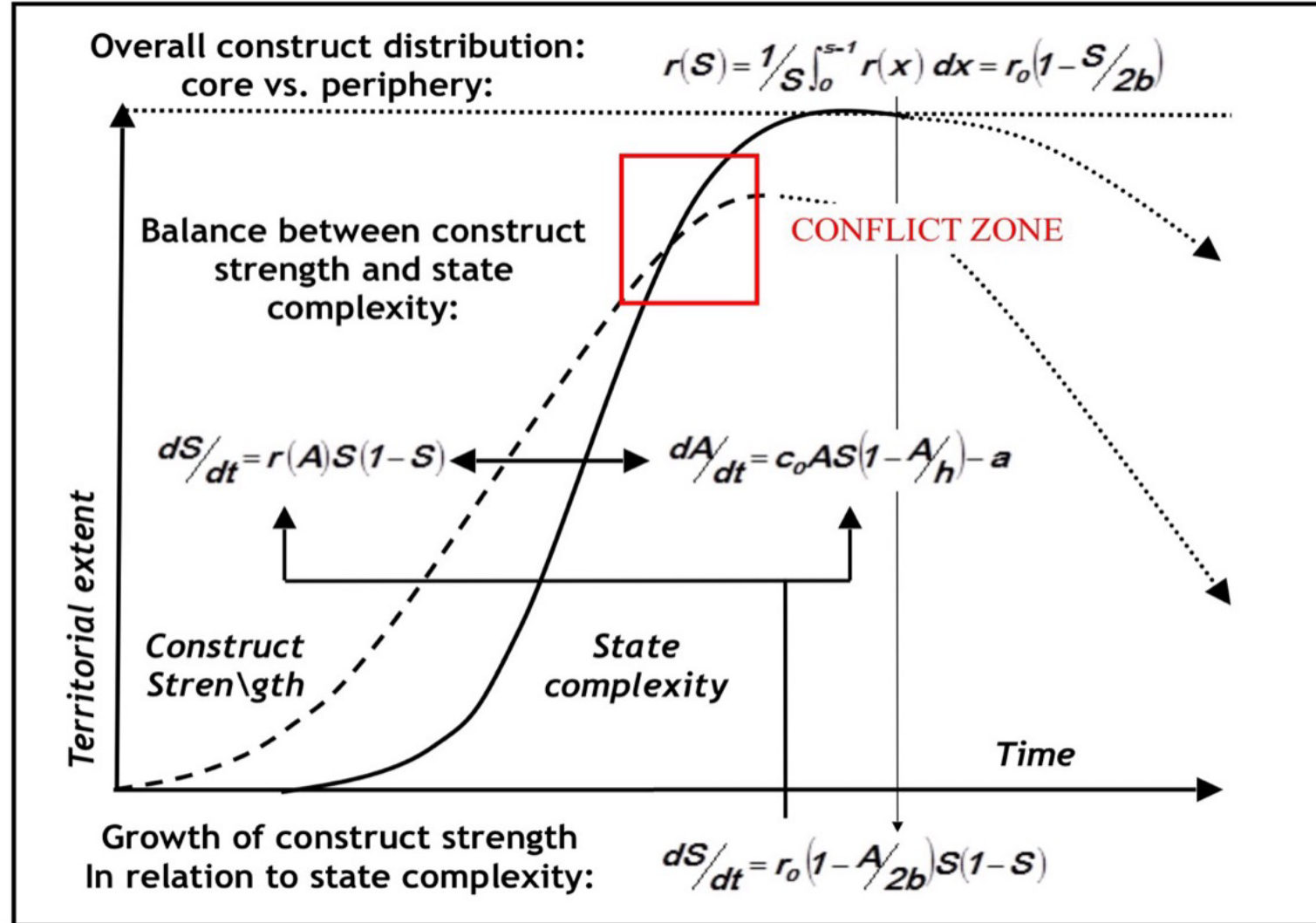


b) transcript of main details

The Joachimite Prophecies:
Dispositio Novi Ordinis *from the Liber Figurarum:*
The Configuration of the New Order.

Corpus Christi College, Oxford MS. 255A, f.17r.

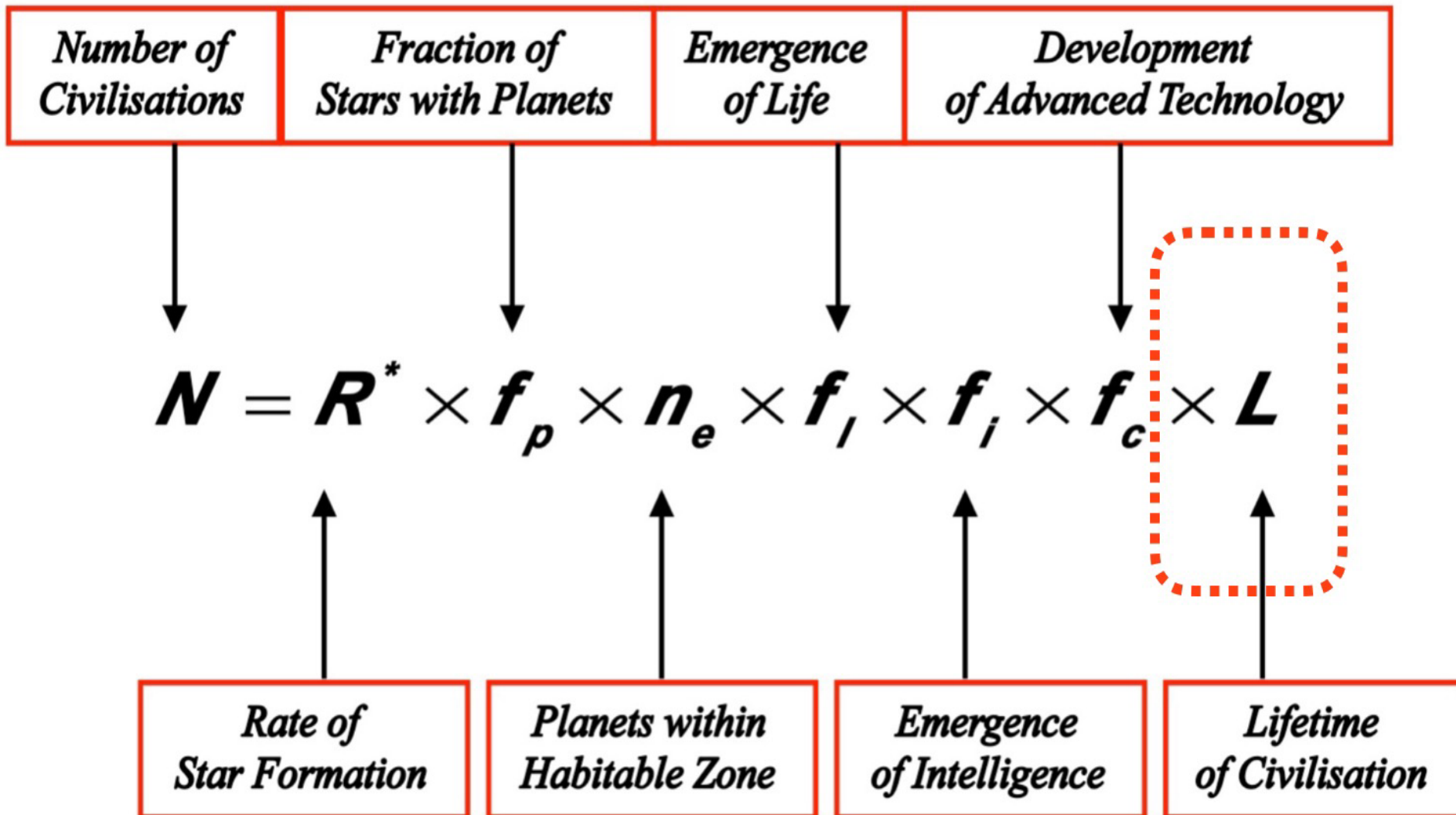
RELIGIOUS CONSTRUCTS AND SOCIAL STABILITY



A Civilisation is not Conquered from without until it has first destroyed itself from within.

THE DRAKE EQUATION

Perhaps the 'Lifetime' variable is in fact the 'Great Filter' of the Fermi Paradox



If the $K_0 \rightarrow K_2$ Transition is to be realised, it would appear essential to establish a permanent foothold in deep space (i.e. beyond Earth's orbit) before the constraint and error catastrophes currently affecting global civilisation precipitate a catabolic systems collapse to the point where recovery to our present level will be severely compromised by key resource depletion.

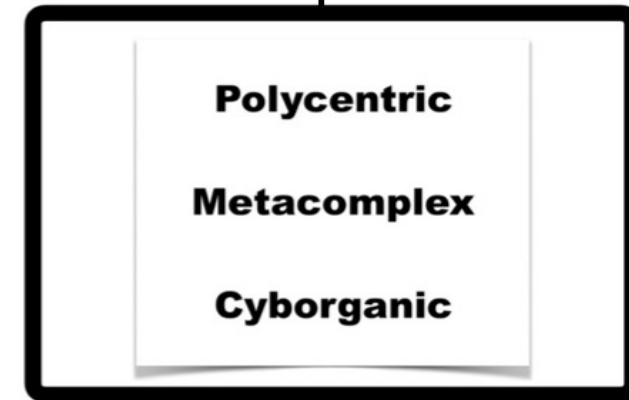
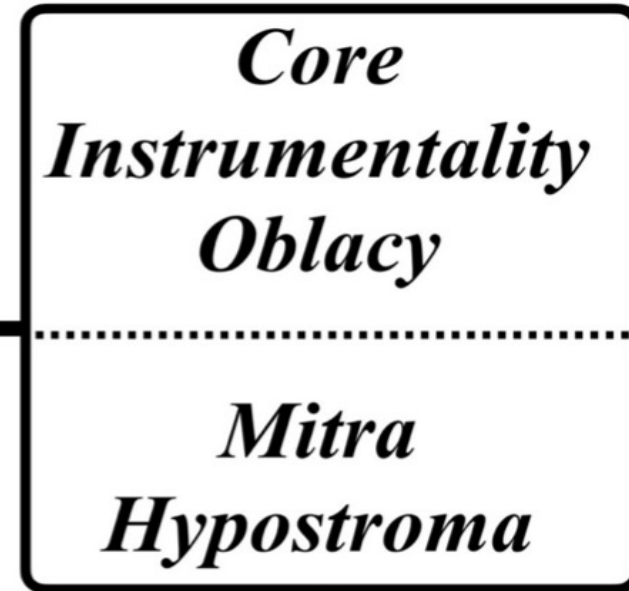
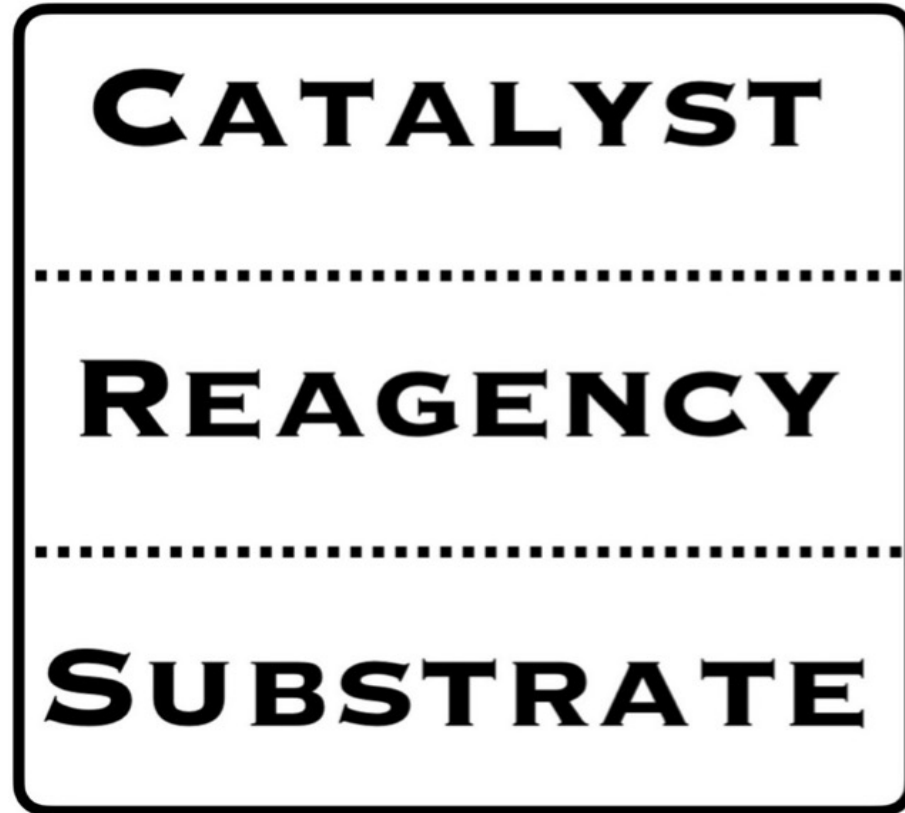
The CHRYSALIS

Polycentric

Metacomplex

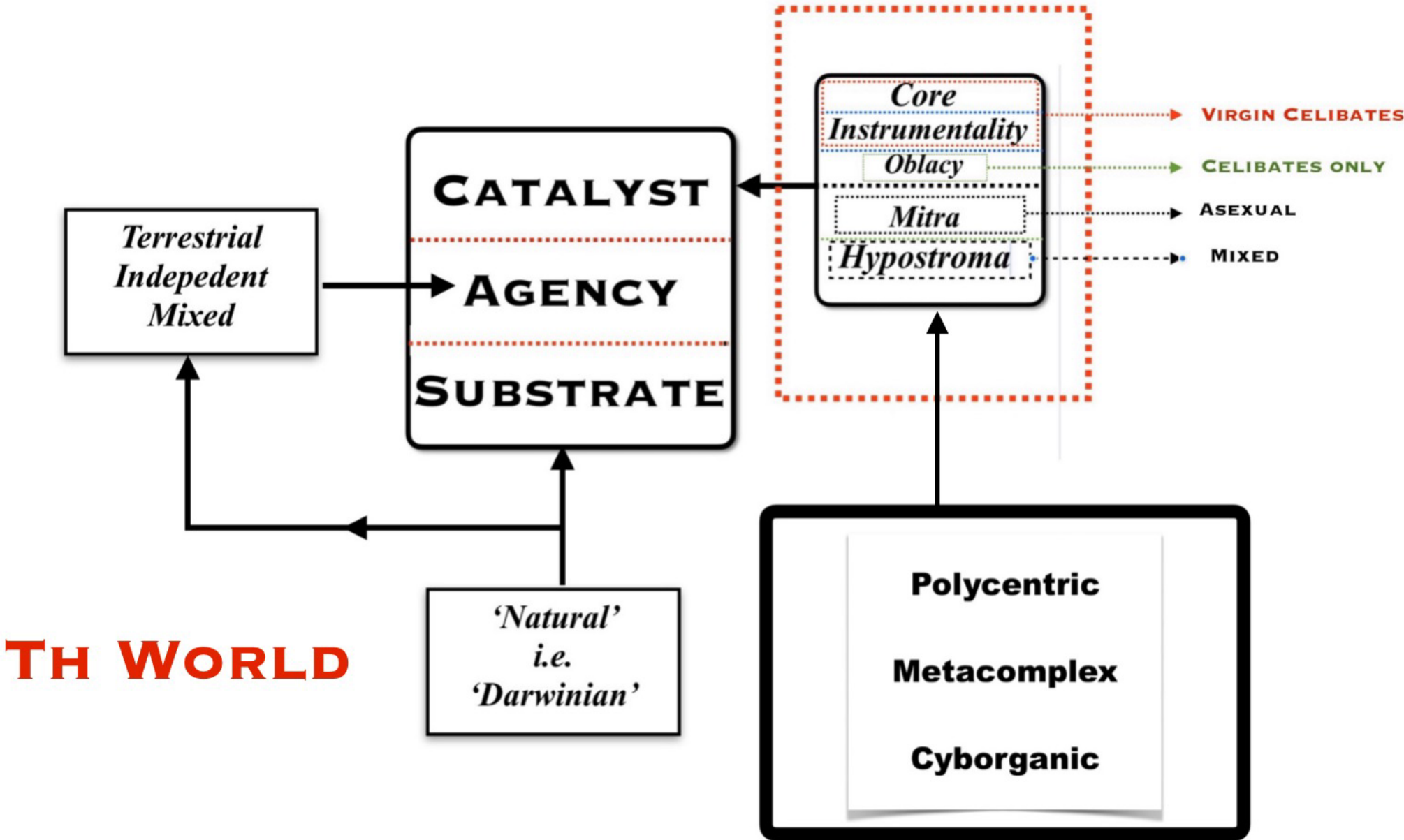
Cyborganic

THE CHRYSALIS



THE WORLD

THE CHRYSALIS



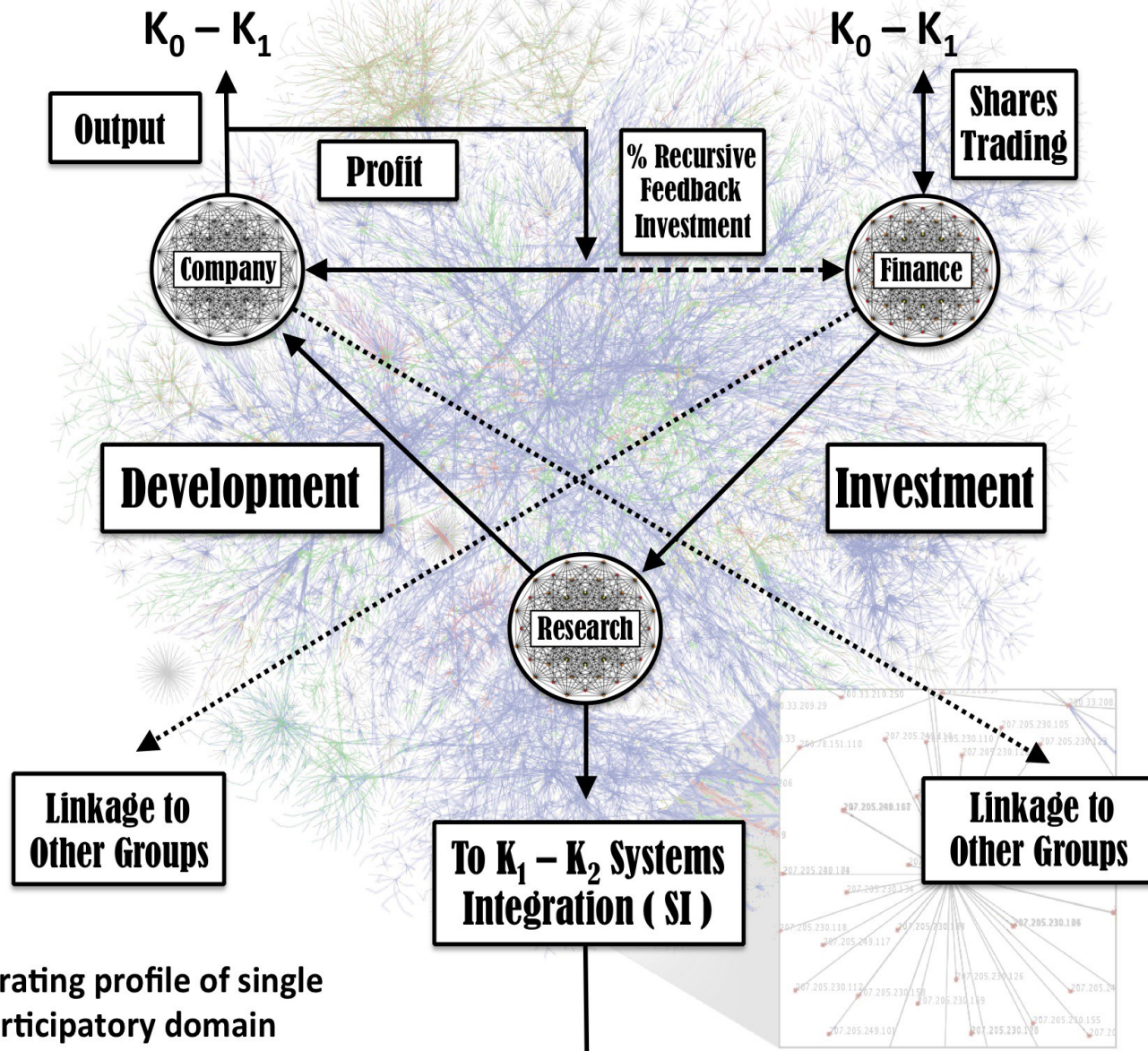
OUTREACH and EXPANSION

TRAINING and THERAPY

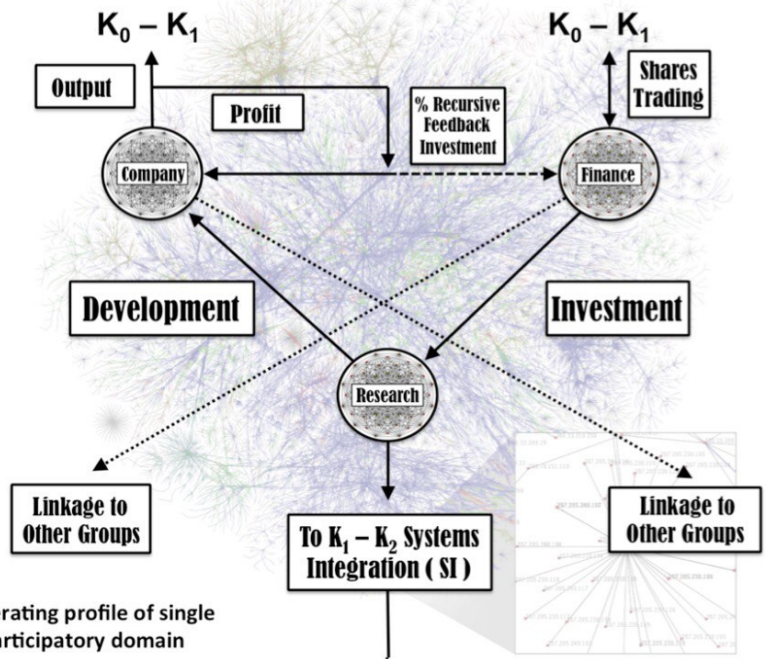
EDUCATION at PRIMARY LEVEL

**INDEPENDENT RESEARCH, IMPLEMENTATION and
DEVELOPMENT of SPACE EXPLORATION PROGRAMME**

**IMPLEMENTATION OF RESEARCH TECHNOLOGY
PROGRAMMES**

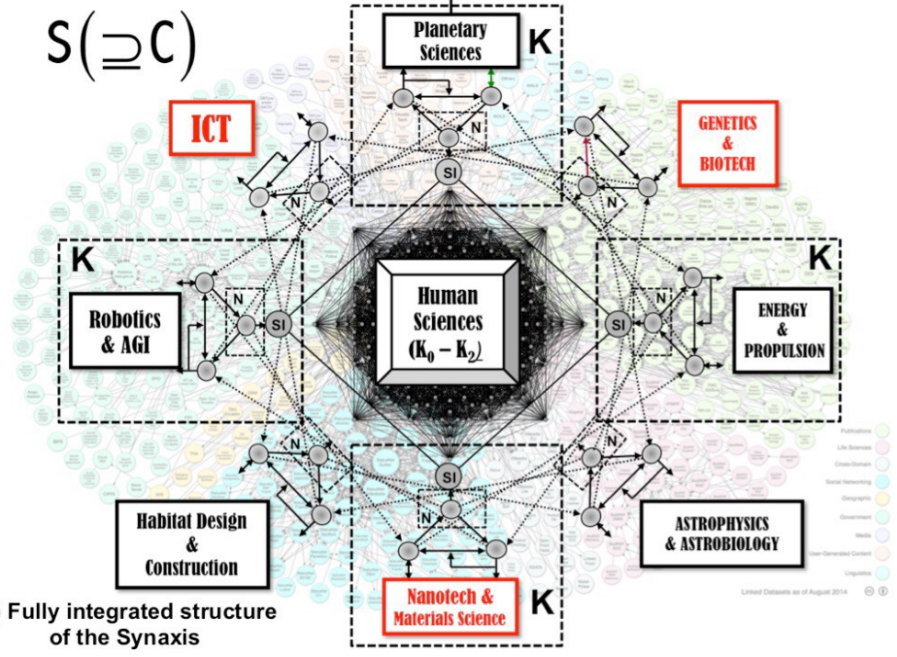


(a): operating profile of single participatory domain



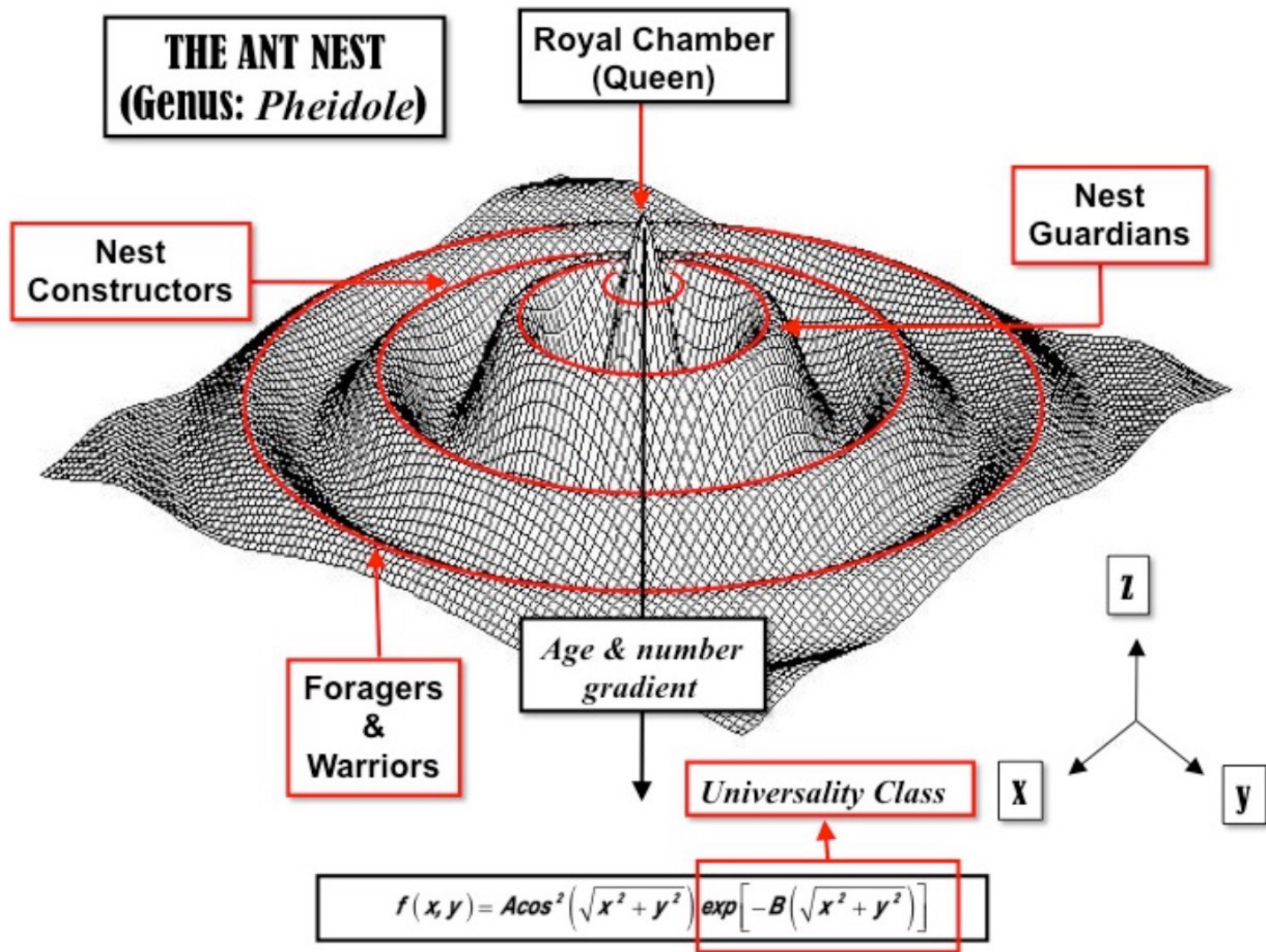
(a): operating profile of single participatory domain

$$S(\supseteq C)$$

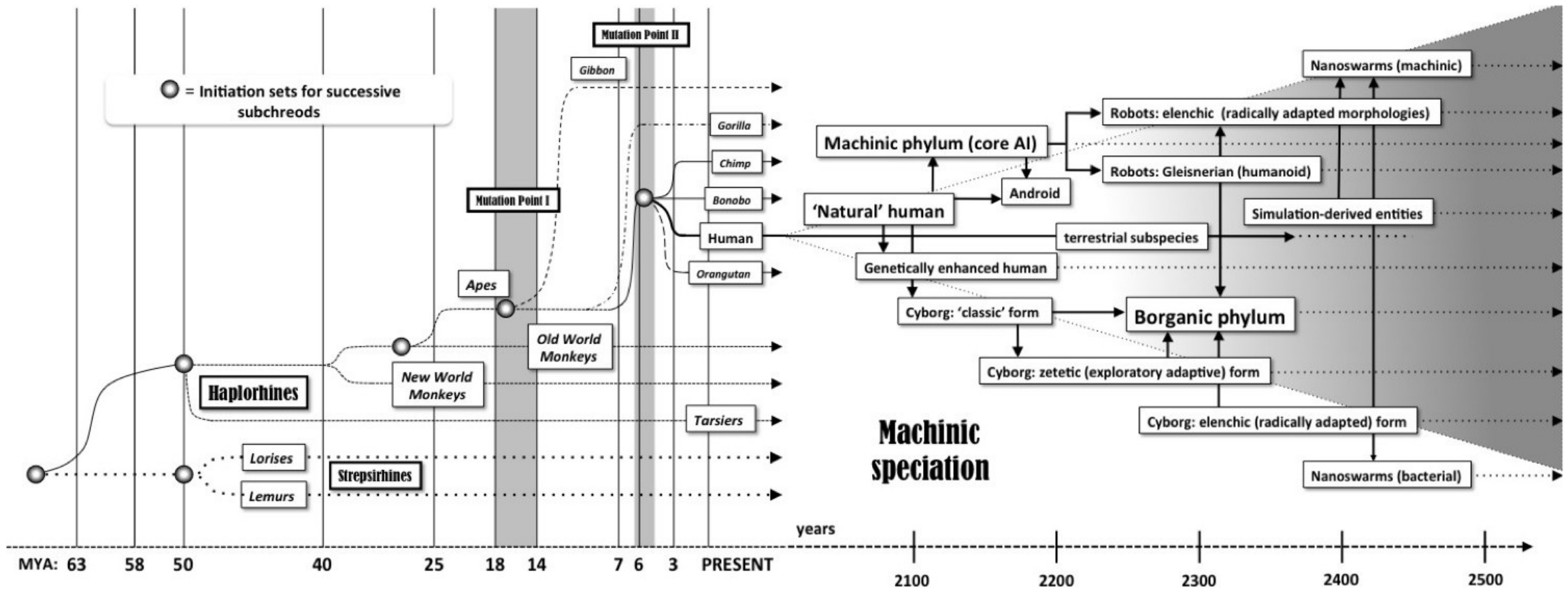


(b) Fully integrated structure of the Synaxis

SOCIAL ARCHITECTURE
of the
CHRYSALIS



Hive architecture of the ant genus *Pheidole*



Machinic speciation

● = Initiation sets for successive subchreods

Mutation Point I

Mutation Point II

Haplorhines

Strepsirhines

New World Monkeys

Old World Monkeys

Apes

Gibbon

Gorilla

Chimp

Bonobo

Human

Orangutan

Tarsiers

Machinic phylum (core AI)

'Natural' human

Android

Genetically enhanced human

Cyborg: 'classic' form

Borganic phylum

Cyborg: zetetic (exploratory adaptive) form

Cyborg: elenchic (radically adapted) form

Robots: elenchic (radically adapted morphologies)

Robots: Gleisnerian (humanoid)

Simulation-derived entities

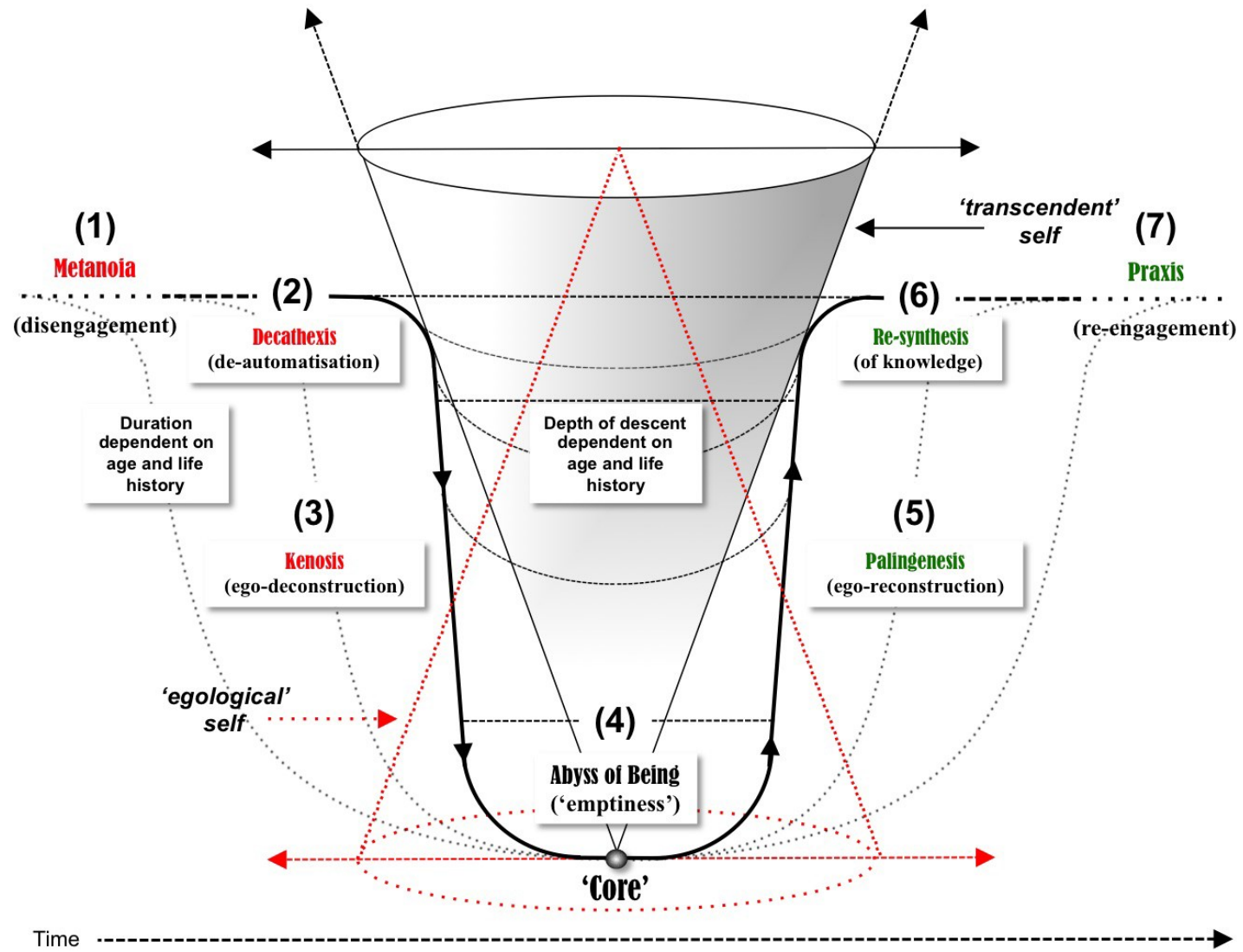
terrestrial subspecies

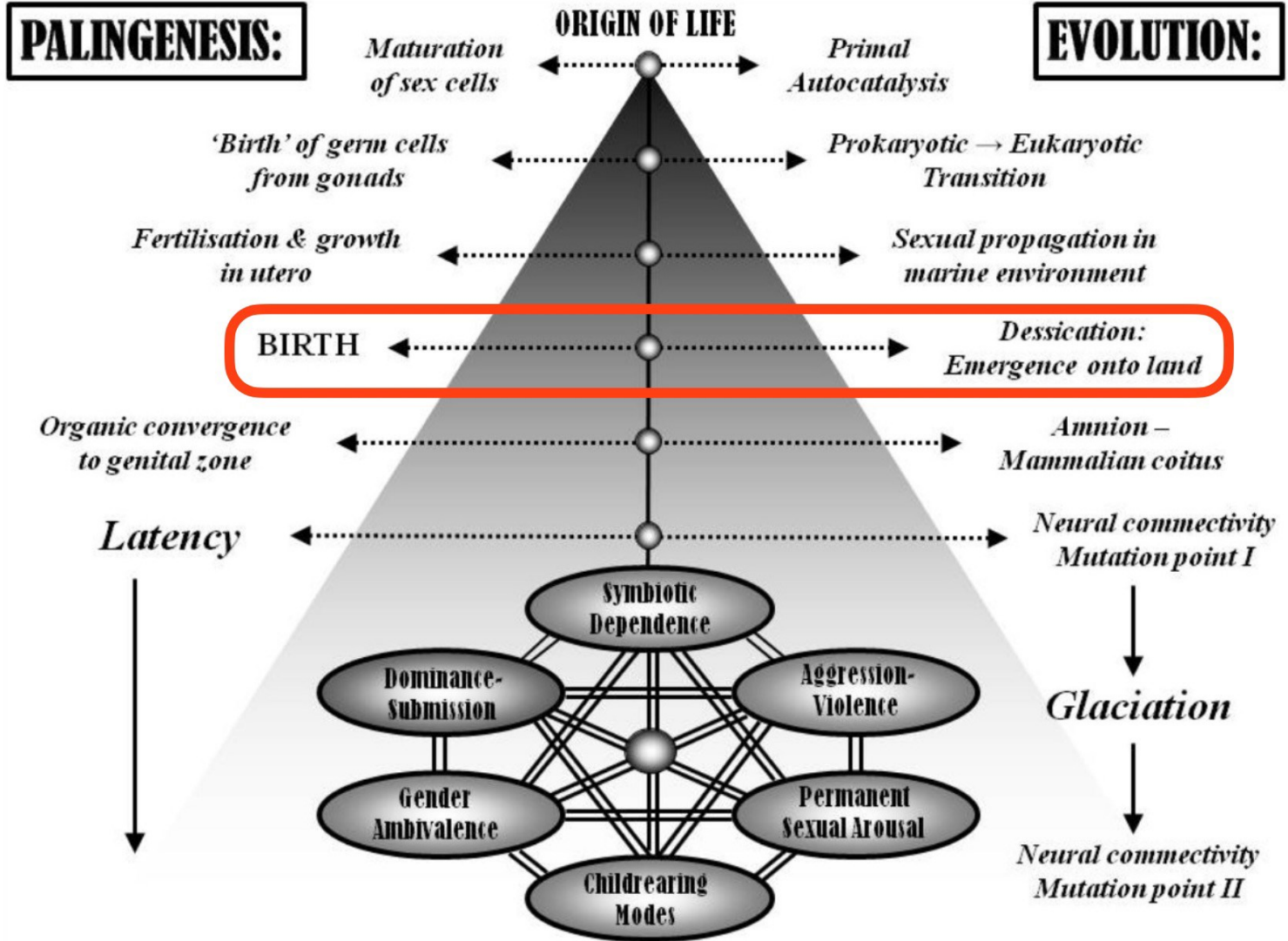
Nanoswarms (machinic)

Nanoswarms (bacterial)

years

MYA: 63 58 50 40 25 18 14 7 6 3 PRESENT 2100 2200 2300 2400 2500





**A UNIVERSAL COMPASSION FOR AND
VIBRANT, EMPATHIC APPRECIATION OF,
THE INFINITE POTENTIALITIES OF BEING**

**A CONSUMMATE PEEPICACITY AND
FORESIGHT IN RELATION TO THE THERMODYNAMIC
FLOWS, FLUXES AND GRADIENTS OF EARTH AND OF THE
KNOWN UNIVERSE**

**A FULL AWARENESS OF THE DIMENSIONALITIES OF TIME,
SPACE, ENERGY, DISTANCE, AND THE
CORRELATIONS BETWEEN THEM**

**A STEADFAST COMMITMENT TO THE
ESCHATOLOGY, TELOS AND FULFILMENT
OF THE PLAN AND TO THE EVENTUAL
SYNAXIS OF ALL WORLDS**

SYNOPSIS OF FUTURE HISTORY :

Economic
Long Wave Cycles :

- GRAIN Technologies: c.1995
- Microelectronics: c.1973 - 83
- Fordist mass production: c.1913 - 18
- Steel & Electricity: c.1874 - 80
- Steam Transport (Britain): c.1828 - 32
- Water (Britain): c.1780 - 90

Increasing social stratification and differentiation
Complexification → diminishing marginal returns
Resource depletion
Scanning behaviours

BRIDGE TO K_2+

AD ASTRA

Possible (but not inevitable) interaction

POSSIBLE BUT UNLIKELY SPACE RENAISSANCE IN DISTANT FUTURE

CRASH

'RAMP - UP'

Duration : c. 1000 - 30,000 yrs

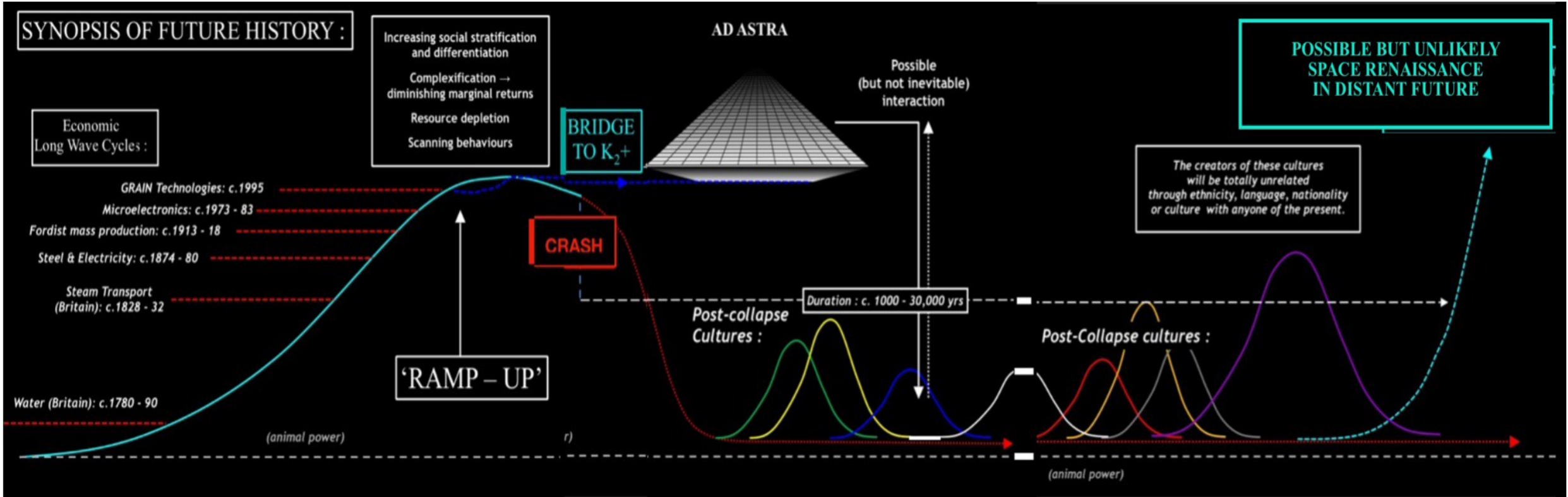
Post-collapse Cultures :

Post-Collapse cultures :

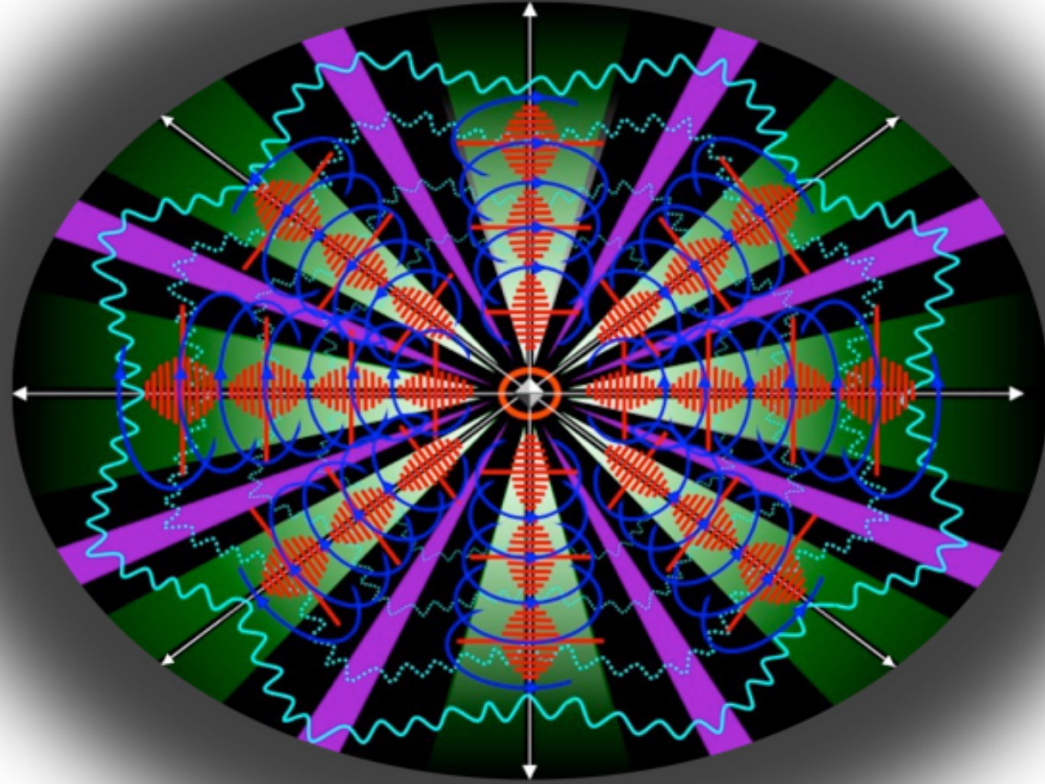
The creators of these cultures will be totally unrelated through ethnicity, language, nationality or culture with anyone of the present.

(animal power)

(animal power)



THANK YOU



FOR YOUR ATTENTION
