UNIVERSAL DECLARATION OF LIVING BEINGS COEXISTENCE

VERSION OF 31/12/0056 Universal Terrestrial calendar (20/06/2025 Gregorian calendar): TO BE CONTINUOUSLY UPDATED WITH THE EXTENSION OF KNOWLEDGE

Article 0

Life exists in the Universe.

The living beings aware of their existence would like life to be perennial.

FOREWORD

This UNIVERSAL DECLARATION OF LIVING BEINGS COEXISTENCE attempts to propose benchmarks and organizational keys which would make it possible to respond to the numerous calls from the United Nations-IPCC-IPBES-COP warning since the end of the 20th century about the "planetary boundaries overshoot": the structurally divergent trajectory (increasing and blind) of the organizational model that we have inherited would endanger the existence of living beings, human species included, on our finite planet.

The human species would therefore be obliged to invent a new organizational model if we wish to preserve the perenniality of living beings on the long term.

This document therefore brings together in a very synthetic way the common hypotheses of the existence of living beings and proposes **a minimal organizational structure**:

- separation of powers,
- necessary measures of reality to be continuously updated (indicators),

which would give us knowledge of the "right" LIMITS and would empower us to respect them, thus allowing the establishment of a perennial organization for living beings existing in a finite biosphere.

The elements presented here are the conclusion of the analysis developed in the <u>Living</u> <u>Beings Manifesto</u>, available free online here <u>www.peacenlive.com</u>. If you are missing information to understand certain elements presented here, do not hesitate to consult this Manifesto.

These proposals do not claim to be irrevocable and are to be continuously updated with KNOWLEDGE extension, accordingly with the first postulate of the physics of the Universe: the laws of the Universe are homogeneous throughout the Universe (no singularity).

Therefore, if something does not happen as "expected" somewhere in the Universe, it may be because the current description of the Universe that we have is incomplete or incorrect; it is therefore necessary to remain open at all times to learn from the Universe, to improve and to update the description of its laws.

<u>SUMMARY</u>

ISSUE:

What MEASURES of reality, with knowledge of their LIMITS, must be kept up to date and made available to all, and by what minimal institutions, to empower a perennial realization of a justice TO ACT and TO HAVE inside a FINITE BIOSPHERE?

PROPOSAL OF THIS UNIVERSAL DECLARATION:

3 institutions FINITE BIOSPHERE – TO ACT – TO HAVE updating these measures of reality:



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LIVING:

COMMON

HYPOTHESIS



PERENNIALITY

LIVING

UNIVERSAL DECLARATION OF LIVING BEINGS COEXISTENCE

II. EXISTENCE IN THE UNIVERSE

Article A.II.1

FINITE BIOSPHERE: In the Universe (TIME, SPACE, MATTER, ENERGY),

- \checkmark in a sufficient volume containing a sufficient quantity of MATTER,
 - in a physical context allowing the SOLID, LIQUID AND GASEOUS states of MATTER to coexist (pressure, temperature, gravitation, inertial acceleration – rotating frame),
 - MATTER made up of a suitable distribution of atoms (C,H,O,N,Ca, etc.), including the presence of liquid water (H2O) in large quantities,

 ✓ in the presence of an almost constant source of ENERGY on a cosmic scale (millions of years - radiation from a star or internal fusion of a planet),

a spontaneous form of construction and animation of MATTER can exist:

The LIVING is made up of LIVING BEINGS in osmosis with their inert environment (physical and chemical properties of the environment) and interdependent between each other (reproduction, food chains, ...): no LIVING BEING can exist alone. They COEVOLUTE together in a continuous chain, self-transforming, adapting, improving themselves in their environment.

Notes:

- The living really exists in the "Universe", the terrestrial rock is really a space rock "like the others", where the physical and chemical conditions are simply adapted to life. The fact that living beings do not turn to dust in the International Space Station or on the Moon demonstrates that the earth rock does not have a "specific property" that would allow life to exist.
- The origin of existence in the Universe of this spontaneous capacity of construction and animation of MATTER is a mystery for the human species.

Corollary A.II.1 (contrapositive)

If the capacity of existence of living beings remains a mystery, one CERTAINTY is that living beings, as we know them on Earth, cannot exist outside of the previous physical and chemical conditions.



LIVING - EQUALITY (TO ACT/TO HAVE) -

- PERENNIALITY

III. A LIVING BEING IN A FINITE BIOSPHERE

Article A.III.1

LIVING BEING: (nature)

A living being is a closed set of matter having a wall between an interior and an exterior, provided with <u>an own, spontaneous</u>, <u>autonomous</u> and <u>homogeneous</u> <u>capacity at every point of its interior</u> to manage MATTER and ENERGY to achieve its process of:

- construction,
- operation,
- maintenance,
- and reproduction,

processes carried out by the cell for terrestrial life (concept of autopoiesis).

The construction of the living seems to take place around 3 stages:

- digestion (feed):
 - autotrophic: capable of constructing its own organic matter from "inert" MATTER and ENERGY (light, thermal);
 - **heterotrophic:** feeds on organic matter produced by other living beings or digestion of other living beings (prey-predator).
- <u>cell division</u>: identical replication of a cell (*mitosis*, *DNA/RNA*).
- <u>cell fusion (sexual reproduction)</u>: meiosis of a cell into two gametes ("half cells"), one of which fuses with a gamete produced by a congener of the same species, to give a new cell (*fertilization*), a new living being.

Living beings have INNATE CAPACITIES allowing them to live in their ecosystem:

- ✓ capacities to recognize their biological identity:
 - o self and not self (immune system);
 - o their group of similar/breeding individuals (species);
 - their place in the food chain (prey/predators).
- ✓ operational capacities adapted to their environment:
 - o perception in the environment (the senses: sight, hearing, etc.)
 - information processing (the nervous system, the brain, etc.)
 - o mobility (limbs, fins, wings, etc.)



Many species use their INNATE CAPACITIES for COHABITATION purposes (culture):

- modeling the use of these capacities in a specific way: ACQUIRED CAPACITIES to communicate (languages), feed, build (technique), defend, entertain oneself...
- defining a frame to live together: rules TO ACT and TO HAVE,
- based on a shared representation of the world (values, mystery, beliefs).

From this construction in a culture, there exists a secular inertia from which the principle of secularism is born: acceptance and respect for differences are necessary to allow peaceful cohabitation of living beings.

Page 12: "The living develops intelligence on Earth"

Choice to define the word **"intelligence"** in this UNIVERSAL DECLARATION as **the set of CAPACITIES** enabling a species to construct in MATTER the tools (**technology**) empowering it to extend the perenniality of the LIVING through SPACE emptiness.

The capacity of existence of terrestrial heterotrophic living beings (living beings that do not produce their own organic matter), including the human species, and therefore the maximum number of human beings, is therefore limited by this first reality:

- available inert matter (including quantity of liquid water),
- incoming energy (solar radiation),
- fresh water cycle,
- autotrophic living beings growth capacity (plants).

All the activities of the human species thus need NOT to disrupt this first cycle of the living existence.

B EQUALITY: TO ACT AND TO HAVE IN A **FINITE BIOSPHERE**

PROBLEM

What MEASURES of reality, <u>with knowledge of their LIMITS,</u> should be kept up to date and made available to all, and by what minimal institutions, to enable the realization of a justice TO ACT and TO HAVE while respecting the limits of a FINITE BIOSPHERE?

I. NEED DEFINITION

Article B.I.1

FINITE BIOSPHERE: ANY ORGANISATION SHALL

- exist,
- be designed,
- be capable to adapt itself,

in order to empower the perenniality of the living beings existing in a finite viable context.

Article B.I.2

TO ACT: ACTION OF ALL SHALL BE

- PERMANENT,
- RELEVANT for oneself and for the coexistence of living beings in a given ecosystem,
- DIVERSIFIED with a maximum FREEDOM of orientation.

Article B.I.3

TO HAVE: DISTRIBUTION FOR ALL SHALL

- cover our NEEDS exactly, without growth nor decrease
 = no one dies of hunger, cold/heat or mild disease,
- fairly VALUE our action (duration, involvement, results, complexity, responsibility),
- RESPECT the limits of resources in a given viable context to allow their perennial renewal.

II. MINIMAL ORGANISATION

Article B.II.1

STATE

composed of

3 SEPARATED INSTITUTIONS

at the service of

the perenniality of the living beings:

FINITE BIOSPHERE

Definition and update of the measures, rules, and limits of the finite viable context.

TO ACT Permanent, relevant

and diversified ACTION

of all the human beings.

TO HAVE Fair DISTRIBUTION

of the production

to all the living beings

I

Article B.II.2

FINITE BIOSPHERE

Known for now : Earth + International Space Station (ISS)



KEY INDICATORS = Measures and limits of the reality to be continuously updated :

- 1. **TIME :** duration of viability of a context: estimated start and end dates of life in the given context.
- 2. **SPACE** : Definition of the SPACE (volume) occupation (Lands/Seas/Sky):
 - a. SPACE to be left inoccupied by the human species to leave room for the profusion of biodiversity and the establishment of the LIVING perenniality.
 - i. continuity of this inoccupied SPACE through the FINITE BIOSPHERE to allow the coevolution of LIVING to be preserved.
 - b. SPACE exploitable by the human species.
 - c. SPACE habitable by the human species.

3. MATTER

- **a.** Mass, Pressure, temperature, gravitational field, inertial acceleration (for non-negligible rotating reference frames: spaceships rotating on themselves or base on an asteroid rotating on itself).
 - i. Interface solid/liquid/gaz (Lands/Sea/Sky),
- b. Composition of the context : (minimum for the existence of terrestrial life)
 - i. atoms of "terrestrial life", constituting on average more than 95% of the mass of terrestrial living beings: C, H, O, N, Ca, ...;
 - ii. molecules of "terrestrial life": water (H₂O) constituting more than 60% of the mass of all living beings,
- c. MAX intake assessment in inert MATTER,
- d. MAX release assessment in the environment.

4. ENERGIES :

- a. **PRIMARY :** "permanent" (renewable) at the scale of a solar system (star system).
 - i. "solar" (radiation from the sun, from the star),
 - ii. "Internal" thermal energy (molten core of a planet).
 - iii. gravitation (hydraulic energy from falling water, tides, etc.),
 - iv. wind/hydraulic power,
- b. <u>SECONDARY</u>: finite resources (non-renewable) at the scale of a planet, produced from the transformation of "primary" energies.
 - i. "fossils": molecules "storing" solar energy (carbon chains resulting from the photosynthetic construction of living beings), others,
 - ii. "atomic": atoms "storing" the gravitational energy of a star (radioactive atoms).
 - iii. LIVING : mechanical energy (movement) and information processing energy.
- c. MAX intake assessment of ENERGIES.

5. **LIVING :**

- a. Autotroph living beings ("plants") : mass, species, food chains...
- b. Heterotroph living beings ("animals") : mass, species, food chains...
 - i. "Intelligent" species (capable of building tools to cross SPACE emptiness) = number of human beings at the moment (0056 cUT 2024 cG).
- c. MAXIMUM of "intelligent" living beings viable in the context.
- d. MAX intake assessment of living resources.
- 6. **TECHNOLOGY :** context-specific tools to ensure the perennial survival of the living beings.

Article B.II.3

TO ACT

Example of an average ACTION pace over a lifetime :



KEY INDICATORS = Measures of the reality of human beings action :

- ACTION organized like so:
 - 0. ADMINISTRATION (3 INSTITUTIONS FINITE BIOSPHERE TO ACT TO HAVE MANAGEMENT)
 - A. PRACTICE Cohabit Knowledge Skills
 - B. MAKE

PRODUCTION of the 10 RESOURCES

- C. TRANSMIT RESEARCH
- => PROTECT Peace and Security

With the identification of PRIORITIES in each activity:

- VALUE: on bounded scales
 - ✓ Implication assessment grade : Ni
 - ✓ Result assessment grade : Nr
 - Complexity coefficient : Qc
 - Responsibility coefficient : Qr
- PARTICIPATION :
 - ANNUAL: $Pa_n = [min(h/h_o; 1,05) . Qc . Qr . (Ni + Nr)] / Pa_{n_max}$ (%)
 - CUMULATED: Pc = $\left[\sum_{i \le n} Pa_i\right] / P_{c_max}$



 \bigcirc

Article B.II.4

TO HAVE

<u>KEY INDICATORS = Measures of the reality of wealth distribution :</u>

10 RESOURCES to be shared <u>separately</u>:

(PRODUCTION PRIORITIES according to the ACTION PRIORITIES color code)

- ✓ from a minimum for INDIVIDUAL SURVIVAL: NEED,
- ✓ VALUED proportionally to PARTICIPATIONs,
- ✓ below a MAXIMUM for long term COLLECTIVE SURVIVAL: RESPECT.



III. OPERATION

Article B.III.1

FINITE BIOSPHERE - TO ACT - TO HAVE 3 INSTITUTIONS MANAGEMENT

- a. TIME AND SPACE : The issues to be dealt with by the inhabitants of the world through the 3 INSTITUTIONS (FINITE BIOSPHERE, TO ACT, TO HAVE) would be scaled and prioritized according to their SPATIAL AND TEMPORAL SCOPE (from the daily production of eggs, to the management of an ISS-type space station over a century).
- b. PRIORITIES : The "democratic elections" would not have as their object the choice of its coordinators, but the PRIORITIAZTION of projects and orientations to be given at each level, from local to global.
- c. KNOWLEDGE AND CAPACITY : The management of the 3 INSTITUTIONS (FINITE BIOSPHERE, TO ACT, TO HAVE) at each level would be carried out by trained people, whose KNOWLEDGE AND CAPACITIES for objectivity and impartiality for the PERENNIALITY of a FINITE BIOSPHERE would have been validated, renewed regularly for example according to the proposed pace in the *Administration* column of the table given in APPENDIX 1.2 TO ACT, page 57.

The operating principle would be for each INSTITUTION to continuously update all the identified MEASURES OF REALITY, by producing local syntheses (individual = UNIVERSAL PARTICIPATION Notice) to global ones (possible thanks to our global digital network - internet), which very synthetic presentation would be the following dashboard:



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C PERENNIALITY: DIRECTIONS

AND

PRIORITIES



I. SHORT TERM DIRECTIONS

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LIVING -

PERENNIALITY

MEDIUM TERM DIRECTIONS

LIVING



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II. PRIORITIES OF EVERY MOMENT



PERENNIALITY

APPENDIX

APPENDIX 1 – Recommendations

THE MOST IMPORTANT TO NOTE in all these proposals for building an organizational structure which would empower the establishment of a justice TO ACT and TO HAVE while respecting the limits of a FINITE BIOSPHERE, are the following points:

1. **MEASURES OF REALITY** : TO SEPARATE ALL COUNTERS according to the NATURE of what they MEASURE.

2. **FINITE BIOSPHERE :** THAT ALL THESE COUNTERS are on bounded scales with their LIMIT clearly identified (nothing tends towards infinity inside a FINITE BIOSPHERE).

3. TRANSPARENCY :

- **PUBLIC:** DEFINITION OF ALL COUNTERS, THEIR SCALES, LIMITS, AND THEIR <u>OVERALL</u> VALUES, CONTINUOUSLY UPDATED.
- **PRIVATE:** INDIVIDUAL VALUES OF THESE COUNTERS, MANAGED <u>SEPARATELY</u> AND <u>ANONYMOUSLY</u> BY <u>TWO DIFFERENT</u> <u>INSTITUTIONS</u> DEPENDING ON WHETHER THEY ARE MEASURES OF OUR ACTIONS ON ONE SIDE (TO ACT), OR OUR RIGHTS TO HAVE ON THE OTHER SIDE (TO HAVE).

The important thing is not WHO has the POWER, but whether we have the right INFORMATION to make the right DECISIONS. Beyond, just as schools have different faces across the planet, this structure can be reproduced by tuning and adjusting its parameters according to cultures and what is important to them.

Our cultures and our conventions should also allow everyone to maintain their tolerance and adaptation abilities at all times, keeping in their hearts the fact that nothing is immutable. They should therefore avoid messages and practices that propose to publicly lock in an absolute and definitive manner certain realities, decisions, **commitments** which can be linked to the knowledge of ourselves in a given context at a given moment.

Our capacity for **tolerance and adaptation** should therefore leave room for our own **ignorance** of ourselves and of the world at all times.

APPENDIX 1.1

FINITE BIOSPHERE

General recommendations:

 EXISTENCE: The spontaneous existence of living beings in the Universe, in a continuous chain that extends at least on Earth for about 3 billion years, would be our first common reality of nature, the "submerged part of the iceberg" ultimately preponderant, thus the FIRST REALITY TO RESPECT.

Therefore EQUALITY:

- a. The existence of NO living being is superior to the one of another.
- b. Language must by default express EQUALITY between all living beings : avoid in everyday language terms expressing domination, even implicitly, over any aspect of living beings existence ("they are just animals", "kids", etc.)
- c. Conventions, rules, standards, requirements, objectives to be met, etc. are "tools" serving the perennial cohabitation of living beings; we must remain capable of adapting them when they do not serve (anymore) the majority of living beings.
- d. Avoid the cultural construction of "borders", of lines on the ground or in our representations, of "TRUE" and "FALSE", of separations between "BEFORE" and "AFTER" which would make us different; the increase in our abilities through training and experience, evolving our power over our environment, as well as the evolution of our rights TO ACT and TO HAVE as we grow, would not change our deep nature... the common central pillar of our existence as living being would remain the same throughout our lives.

Especially avoid exacerbating cultures as the "soul of a Nation", as our "identity" which would define us deep within ourselves. Cultures are very real and are different but would constitute the "visible part of the iceberg", which shall not hide the overwhelming immensity of the common living nature that we share.

- 2. **DEATH:** Due to the fact that the existence of heterotrophic living beings passes through the digestion of other living beings, death consciously given to another living being :
 - a. autotrophic must not endanger the renewal of the species,
 - b. heterotrophic must only be done:

i. to feed, without exceeding the renewal capacity of the species,

ii. to protect one's own survival in the moment of aggression (legitimate selfdefense).

3. **REPRODUCTION:** The conscious reproduction of a heterotrophic species must not endanger, by increasing its population, the renewal of the species that feed it, putting its own existence in danger : we should not consciously conceive a child when we know that it will not be able to be fed.

APPENDIX 1.2



The organization would guarantee a relevant, rich and diversified ACTION throughout life, for instance on the following pace:



- from 6 months to 58 years old: 36h/week with 10 weeks vacation per year (1500h/year),
- <u>from 59 years old to 70 years old:</u> 2h/week less each year, going from 36h/week to 12h/week gradually between 58 years old and 70 years old (always 10 weeks of vacation per year),
- from 70 years old to the end of life: 12h/week (at best according to each person's capacities), 10 weeks of vacation per year.

Time schedule example of the 36h/week (1500h/year) of a person at 35 years old:



The annual duration of 1500 hours/year is a framework to provide a shared and reasonable benchmark, but everyone would be free to participate to the extent they wish or are capable of, with an impact on their rights of TO HAVE evaluated as fairly as possible as explained below.

The time and place of ACTION (of "work") is a neutral moment and space where all the inhabitants of the world find themselves partners, no living being prevailing over another, to build themselves and build the future of the coexistence of living beings, each at their own level and motivation, independently of any "network", any affinity or conflict with this or that person.

For the 1000h/year (24h/week) of ACTION with the PACT (500h/year) put aside, a person could therefore commit each year to participate in one or two different activities in the

different fields of action, for example by trying to balance in 2 blocks of 500 hours rather physical activities with others rather intellectual, for which they would have acquired during their continuous practice the right level of competence.

This division into 2 blocks of 500 hours/year would not be obligatory either, but it would be a possibility to ensure a regular diversity. On the contrary some activities, as the Administration coordinators with more than 100 000 people for example, would have 1000 hours/year dedicated to their tasks due to the focus and concentration needed to carry all the topics, the PACT already providing diversity and weekly balance.

Recommendations for the ACTION assessment: PARTICIPATION

The scales and evaluation methods of the ACTION would be <u>homogeneous</u> <u>throughout life</u>, applicable from the age of 6 upon entry into school:



Duration Nh: by setting aside 500 hours for the PACT (explained below), the duration of 1000 hours of action per year could generally be divided into 2 blocks of 500 hours to create a diversity of action throughout the year. The division would be free according to the needs of each activity:

- do 500 hours of activity 1 during the first 6 months, then the other 500 hours during the last 6 months;
- or each working week, do 12 hours of activity 1 and 12 hours of activity 2;
- ... or other organization depending on the need.

The effective action duration ratio Nh/500 could for example be limited by 1.05 to value 5% overtime if Nh >500 (i.e. up to 25 hours of overtime per block of 500 hours), but would be limited to prevent overwork, and promote the fact that going home or doing fun activities is also good; hence the complete formula for the action duration ratio min(Nh/500; 1.05) in the computation of the Annual Participation.

Qc = complexity quotient

The complexity quotient primarily takes into account the Skill Level Quotient Qco:

	DUVCICAL TRAININ			by the PAC	<u>,</u>				years old)
MOBILITY Body coordination in SPACE and TIME (including voice)	PHYSICAL TRAININ POWER Strength and Speed	ENDURANG Duration of exe at a given POWE	rcise Liste	NUNICATION hing, Language ics, synthesis	PROBLE Math	UAL TRAININ EM SOLVING ematics and plications	IMPLE	MENTATION logies and Arts	1.5 ≤ Qc₀ < 2 - CAPABLE: COMI LEVEL + 12h/week for 3 years 2 ≤ Qc₀ < 2.5 - MASTER: CAPAE 12h/week for 3 years
2	2.9	1.5		1.5		2.7		2.2	2.5 \leq Qc _o \leq 3 – AUTONOMO MASTER + 12h/week for 3 years
ACQUIRED OPER	ATIONAL SKILLS								
Engineer	Computer program- ming	Veterinary	Technic Maintena			Chines	e		Each level is validated by t durations of activity AND validation by a test of the acquired skills, the results of t exams giving the assessment of
2.7		1.5	1.5	2		1.5		-	skill quotient between 1 and 3,

The Skill Level Quotient Qc_o goes from 0.1 to 1 between the ages of 6 and 15, increasing by a tenth (0.1) each year.

It is calculated based on the average between:

- The skill level of the activity to be carried out Qco-a,
- The skill level of the person in this same domain Qco-p

For example, if a technician at level Qco-p = 1.6 is required to design a machine at engineer level Qco-a = 2.3, then his complexity quotient will be for the past period $Qco = \frac{1}{2}$. (Qco-a + Qco-p) = 1.95.

Or conversely if a cook of very high level Qco-p = 2.8 must or wishes to go and cook at McDonald's for x reasons for a certain time, cooking level Qco-a = 1.5, then his complexity quotient will be for the past period $Qco = \frac{1}{2}$. (Qco-a + Qco-p) = 2.15.

To this first term of skill level is multiplied a **coefficient of arduousness** which includes:

- The time slot of the action:
 - Qh = 1 if the action takes place between 8 a.m. and 7 p.m.
 - Qh = 1.2 if the action takes place between 6 a.m. and 8 a.m., or between 7 p.m. and 10 p.m.,
 - Qh = 1.5 if the action takes place at night between 10 p.m. and 6 a.m.
- Difficult physical (very significant effort) or moral (emergencies, prison, etc.) conditions:
 - **Qpm** = 1 if no notable difficulty apart from carrying out the action itself.
 - **Qpm = 1.2** if slight physical or moral difficulty.
 - Qpm = 1.5 if major physical or moral difficulties.
- A disability of the person:
 - Qhp = 1 if no handicap to carry out the activity concerned,
 - Qhp = x depending on the impact of the disability on production.

This arduousness coefficient could also be used <u>in inverse</u> to limit the maximum number of hours worked during a year to give an Annual Participation equivalent to 500 hours worked

with a arduousness coefficient of 1: for example working nights in a prison could have an arduousness coefficient of 2.25 (Qh = 1.5 and Qpm = 1.5); i.e. 220 hours gives the same Annual Participation as a block of 500 hours with a arduousness coefficient of 1. The choice could therefore be to limit this work to blocks of 220 hours over a year.

These values are completely arbitrary and other parameters can be added; as explained in the introduction, the important thing is to express the real different degrees of freedom and constraints of action and to apply limited scales that are explicit and accepted by a majority.

In the end, the complexity quotient could look like this:

Qc = ½. (Qco-a + Qco-p). Qh. Qpm . Qhp

Qr = **Responsibility quotient** = 1 + 0,1*LOG10(1+N) : my action, my decisions impact the activities, the environment, the daily lives of how many N people?

Qr = 1 corresponds to minimum responsibility where our action/decisions only concern ourselves.

As soon as you manage one person, then you are valued of 3% percent more : Qr = 1 + 0,1*LOG10(1+1) = 1.03.

When you interface with a group of more than 2 people (class of students, company, group of people), then Qr increases proportionally to the decimal logarithm of the size of the group of N people.

The choice of a logarithmic scale is to say that we quickly increase the responsibility quotient at the beginning when we manage from 1 to 10, 20, 50 people... but that ultimately beyond that, whether we manage 100 or 200 people, the coordination issues become quite the same and therefore the responsibility quotient increases less quickly. Besides, the principle of "LOCAL AUTONOMY EVERYWHERE" with the inverted hierarchical pyramid says that we must not depend on high-level coordinators, hence their low level of effective power and therefore a lower increased responsibility quotient as we manage more.

Each activity carried out, with its identified complexity and responsibility quotients, would be evaluated in terms of Involvement and Result on a limited scale (in the example on a scale from 1 to 4) :

Ni = Implication assessment grade

An Ni grade would be calculated based on:

- Presence at all committed hours (no unjustified absences),

- Punctuality,
- Focus/Concentration on the activity (no other activities at the same time),
- Proactivity : make the activity go forward.

Nr = Result assessment grade

An Nr grade would be calculated based on:

- Achieving the shared, potentially reconfigurable objective.

Eventually, what is not clearly expressed in the initial formula for calculating the Annual Participation is that there is a need to NORMALIZE the final result of the calculation by dividing it by the maximum possible grade once all the scales and limits have been set, to have a result as a percentage (%) of the maximum possible PARTICIPATION.

Recommendations for the "PACT" : PArticipation ConTinuous

A "PACT" (PArticipation ConTinuous), 500h/year = 12h/week, would be the minimum permanent action independent of the "projects situation", which would aim to consider and ensure the integrity and realization of everyone's potential throughout life, as well as the sharing of necessary tasks that interest no one allowing a serene COHABITATION. For example, it could be organized as follows:

- **3 hours per week of physical training:** participation in a minimum of activity using our entire body (sports, dance, ...) to guarantee that we keep us fit, for example organized as follows:
 - Mobility : 1h/week of body coordination in SPACE and TIME rhythm, dance, selfdefense, breathing, singing, stretching, relaxation,
 - Power : 1h/week of muscle building (force and speed),
 - Endurance : 1h/week of cardio-training.
- **3 hours per week of intellectual training:** would maintain the skills acquired over time and enrich them, for example broken down as follows:
 - Communication : 1h/week listening, language/KNOWLEDGE (world description), logics, synthesis,
 - Problem solving : 1h/week of Mathematics and applications,
 - Implementation : 1h/week of Sciences, Arts, techniques and tools.
- 3 hours per week of "World inhabitant duty": sharing among all of all the necessary tasks that interest no one and that no one wants to do (emptying the trash, sort and recycle waste, clean one's neighborhood, clean the premises of common places, ...). In the event of major events (floods, earthquakes, etc.), a "one-off" increase in the number of hours of "World inhabitant duty" may be chosen by the community to focus everyone's efforts on resolving them (to the detriment of other lower priority/NON-VITAL activities).

• 3 hours per week of free expression: free time during the week to develop our own ideas and express ourselves in the way we want, individually or in groups (reading, writing, theater, singing, music, artistic creation,...). Could be the privileged place of emergence of new concepts, to then propose them for a wider deployment (from local to global) if the interest is confirmed.

These 12 hours/week, having the role of keeping us and our environment in shape, with no need for specific skills, has a central place in our ACTION. They would only be evaluated on IMPLICATION (NiOx), always on a limited scale, which MAX grade is to be defined according to the importance we wish to give it (here 2 points per block of 3 hours/week, and 4 points for the "World Inhabitant Duty").

Recommendations for the different ACTION domain:

ACTION would be organized into 5 main branches:

- 0. ADMINISTRATION (3 INSTITUTIONS FINITE BIOSPHERE TO ACT TO HAVE MANAGEMENT)
- A. PRACTICE Cohabit Knowledge Skills
- B. MAKE

PRODUCTION of the 10 RESOURCES

- C. TRANSMIT RESEARCH
- => PROTECT Peace and Security

In all ACTION domains, several levels of PRIORITIES would be identified:

SURVIVAL VITAL 🔂 NON-VITAL

- ✓ SURVIVAL = MINIMUM level of ACTION empowering the population to maintain a minimum PRODUCTION of RESOURCES for survival, according with a minimum PRACTICE to maintain its capacities adapted to its level of development (current technology), to maintain its INFRASTRUCTURE (transportation, energy, information) and its minimum ADMINISTRATION to make it all run.
- ✓ VITAL = ACTION whose STOP instantly (= within 24 hours or a few days) endangers collective SURVIVAL.
- ✓ NON-VITAL = ACTION whose STOP does not endanger an established, healthy population.

An "instantaneous" PRIORITIZATION of ACTION would be coordinated by the TO ACT institution when a major event endangering SURVIVAL happens.

0 – Administration

The main role of the 3 INSTITUTIONS FINITE BIOSPHERE – TO ACT – TO HAVE, would be to maintain up to date the scaled from local to global "elected" priorities, to empower their realization by providing continuous visibility of the perenniality of the projects by updating separately, for each of the INSTITUTIONS, their identified MEASURES OF REALITY from local to global (the "dashboard").

The management of these 3 INSTITUTIONS at each level would be carried out by trained people, whose KNOWLEDGE AND CAPACITIES for objectivity and impartiality for the PERENNIALITY of a FINITE BIOSPHERE would have been validated, renewed regularly for example according to the proposed pace in the *Administration* column of the table given page 57.

Endurance and bandwidth on any kind of topic being key capacities for these coordination activities, some minimum conditions on Physical and Intellectual skill levels, as well as age, would be necessary to succeed the entry exam, for example:

- ✓ Up to 100 000 people: Age between 21 and 62 years old, Qc >1.5, right to do 3 mandates of 3 years in a lifetime.
- ✓ Between to 100 000 and 100 000 000 people: Age between 28 and 59 years old, Qc >2, need to have done at least one mandate before for a group under 100 000 people, right to do 2 mandates of 6 years in a lifetime.
- ✓ Above 100 000 000 people: Age between 36 and 56 years old, Qc >2.5, need to have done at least one mandate before for a group above 100 000 people, right to do 1 mandate of 9 years in a lifetime.

For the end of the last mandate at the latest at age 65.

Minimize the phenomenon of "staricization": DO NOT BELIEVE IN THE ONE WHO SPEAKS but seek at every moment RELEVANCE for our lives, living beings who cohabit in finite contexts.

Any responsibility that we may take during our lives does not change the fact that we are living beings similar to all living beings. BELIEVING IN someone, delegating "absolute" power to someone or let her/him take it, would therefore potentially be overwhelming them with responsibility and an inhuman expectation of exemplarity: on one hand this person could become paralyzed in a pattern of power whose he would become the prisoner; and on the other hand, human beings abdicating to this power would lose their dignity as equal and autonomous living beings.

If the first intention of a person getting involved may really be to "improve" a situation facing societal "problems", the fact remains that **these "problems" are often structural/cultural**

and require effort and transformation of everyone, and not of a single "human being" who "would be perfect" to come to power for a few years in a given region of the planet.

The separation of powers is a key to avoid this societal impasse.

In the table ranking the levels of coordination from 1000 inhabitants to 10 billion inhabitants page 57, the "hierarchy" must consequently be understood as an inverted "pyramid" compared to the traditional one of kings and empires: the more one is the coordinator of a large population, the more one is "below", the more one is at the service of a greater number of people. Therefore, the more one manages global issues in this organization, the more one must be capable of neutrality, dedication to the majority and disinterest (without putting ourself in danger and not forgetting ourself either, the bounded 1000 hours/year of availability framework is part of this protection).

Minimize conflicts of interest: The coordinators are not there to create bonds, affinities between coordinators or with the population, even if this can happen naturally; the accomplishment of their mission must be free of any attachment as much as possible. The main mission of the coordinators is to allow the realization of the choices of the populations at each level (priorities voted on during the elections), from local to global by updating all the information necessary for everyone to understand the current issues (the "dashboard").

They would not have a "public role" to play (through the media) during the exercise of their mission, nor any accumulation of mandates, to avoid any abuse of power and conflict of interest. Public communications could be made by dedicated teams.

A – Practice / C1 – Transmit

Continuous improvement to be carried out by all disciplines to hierarchize KNOWLEDGE and make their language and skills as "ergonomic" and as "intuitive" as possible.

Advances in understanding the world over the last two centuries could lead us to propose a hierarchy of KNOWLEDGE according to a structure consistent with the emerging structure of the world, its inclusions, starting from the **capacity for processing information** of the human species, included in the LIVING, included in the MATTER-ENERGY existing in SPACE-TIME; this upstream capacity could be broken down into three elementary sub-capacities:

A. The language for the expression and exchange of information (receive/meaning/send information).

B. Logic for the treatment of links between propositions.

C. Mathematics for the treatment of quantities.

Then depending on the field of application of these information processing capacities, that is to say the "specific subject, the window or prism through which we observe the world", we

would then have all the "academics disciplines". Without trying to be exhaustive here, this could give for example:

- 1. the description of the behavior of MATTER and ENERGY in SPACE-TIME: Physics.
 - a. including all sub-branches: Thermodynamics, particles/atoms/moleculs physics,...
 - b. the use of these properties to design machines: Technology.
 - i. with all the specific sub-sub-branches: Mechanics, Chemistry, Electricity, Optics, Electronics, IT,...
- 2. the description of the functioning of LIVING: Biology.
 - a. the use of this knowledge to produce food: Agriculture.
 - b. the use of this knowledge to heal living beings: Medicine.
- 3. the description of the behaviors of living beings capable of movement ("animals"): Ethology.
- 4. the description of the past of the human species: History.
- 5. the description of the geometry, resources and occupation of "territories": Geography.
- 6. the description of the structures of human societies: Sociology.
 - a. the orchestration of the current society: Law, Politics.
 - b. the description of exchanges between human beings: Economy.
 - i. the management of the monetary tool when existing: Finance.

Besides, the history of KNOWLEDGE (epistemology) and the reward that we express to a human being for his "discoveries", could in particular be separated from the content of the KNOWLEDGE transmitted to each generation, each discipline continuously updating " its state of the art, its references", allowing us to escape from the "star" culture and to share knowledge of our world in complete EQUALITY. For example, in mathematics theorems could lose the name of the people who "discovered" them, often the fruit of a long series of research which can span centuries, added to this the inclusion of this research in potential power struggles of the moment which can erase certain contributions... notably those of women who have been erased from History for a very long time.

The theorems would then take the name of what they actually represent: for example the Pythagorean theorem could be called the "right triangle theorem", the Bolzano Weierstrass theorem could be called the "convergence theorem of bounded series" ,... etc. This would perhaps also facilitate their learning, their name explicitly expressing what they represent, rather than having to remember names which can sometimes be very far from our cultures and add a complexity of information management which has no relation to the subject matter (a reflection on simplification to be carried out by all disciplines to make their language/syntax "intuitive").

In parallel with KNOWLEDGE, would be the SKILLS OF THE BODY. In the same way as KNOWLEDGE, a hierarchy of the **body's capacities** could be made with an initial breakdown into three elementary sub-capacities:

- A. Mobility: **amplitude and precision** of body movement in SPACE and TIME.
- B. Power: **speed and force** of movement.
- C. Endurance: duration of movement at a certain power level.

These elementary capacities of the body could be linked to the different fields of KNOWLEDGE to give rise to SKILLS, potentially accompanied by TOOLS, specific to the field or transversal to all or part of the KNOWLEDGE (even if it only uses low power finger mobility, the use of computer tools for example has become a skill common to practically all disciplines - consistent because it is, par excellence, the tool that we invented for the automated processing of information and its communication over the planet and in space, therefore potentially useful to all activities), and which can evolve with the extension of KNOWLEDGE and the evolution of Technologies ("progress").

The playful and/or artistic exploitation of these capacities of the body, in groups or individually, with artifacts (balls, rackets, skis, rollerblades, weapons, costumes, musical instruments, etc.) or without, gives rise to all sports, all dances, all music, all combat arts,... of the world. These 3 sub-capacities of movement of the body would include the ability to make the air vibrate thanks to our vocal apparatus, an innate capacity of the body used in particular for language, the use of which in much greater amplitude would be SINGING, included in MUSIC.

Finally, the combination of our **information processing abilities** and our **body skills**, of KNOWLEDGE and POWER, would constitute **our "intellectual" capacities** for action in the world which could be described as follows by putting all the pieces together:

- **COMMUNICATION:** listening, language, KNOWLEDGE (world description), logic, synthesis.
- **PROBLEM SOLVING:** mathematics and applications.
- **IMPLEMENTATION:** Technologies and Arts.

With the Arts which would be the potential "extrapolation" of KNOWLEDGE and BODY SKILLS, without "precise utility", but perhaps in the spirit of *"letting speak the creative source principles of the Universe which pass through us"...*

B – Make

PRODUCTIONS made by the human species would be separated into 10 categories:



Each PRODUCTION category would necessarily have the following identical implementation phases:

- INTAKE of INERT or LIVING RESOURCES from the environment,
- TRANSFORMATION of RESOURCES into FINISHED PRODUCTS,
- DISTRIBUTION of FINISHED PRODUCTS,
- USE,
- RELEASE or RECYCLING/MAINTENANCE.

At any given time, the FINITE BIOSPHERE institution would have up-to-date maximum INTAKE and RELEASE values into the environment (including RELEASE during the PRODUCTION and USE phases), which would allow for real-time assessment of the MAXIMUM QUANTITY of a given type of object that the FINITE BIOSPHERE can contain:

RESPECT = MAX for COLLECTIVE SURVIVAL.



In all PRODUCTION domains, the levels of PRIORITIES would be identified in the same way:

SURVIVAL VITAL 🔂 NON-VITAL

- SURVIVAL = MINIMUM level of PRODUCTION of RESOURCES for SURVIVAL, including the maintenance of INFRASTRUCTURES (transport, energy, information) to ensure this PRODUCTION.
- VITAL = RESOURCES whose PRODUCTION <u>STOP</u> instantaneously (= within 24 hours or few days) endangers collective SURVIVAL:

1.1 WATER / 1.2 FOOD / 1.3 ENERGY

LIVING – EQUALITY (TO ACT/TO HAVE) – PERENNIALITY

Valued at the MAX between the **Annual** or **Cumulative Participation**, allowing to "instantly" value an extremely good annual participation by giving the person more rights to quality food and water and energy. In the event of a lower **Annual Participation**, or even zero, it is the **Cumulative Participation** that archives our participation history that gives us our VITAL level of rights TO HAVE.

HEALTH is between VITAL and NON-VITAL.

Ideally for everyone, it is a question of never needing it... thus an INACTIVE HEALTH because of no disease nor accident would be a tremendous society success!

Our HEALTHCARE needs are covered no matter what: no one dies from a treatable illness or accident. Benefits of comfort or quality of medical equipment can be weighted according to our CUMULATIVE PARTICIPATION and our corresponding rights to HAVE in NON-VITAL RESOURCES.

✓ NON-VITAL = RESOURCES whose PRODUCTION <u>STOP</u> does not endanger a healthy population.

The CUMULATIVE PARTICIPATION would give us our NON-VITAL level of rights TO HAVE.

If the PRODUCTION of VITAL RESOURCES must never be interrupted, a society that has reached a good level of comfort for all non-VITAL RESOURCES, or even reached the **MAXIMUM QUANTITIES of a large number of objects** and has "nothing left to produce", would be SUCCESSFUL!

This society must not seek to produce ever more other things, or worse, be forced to do so due to its organizational structure : it must at all times RESPECT the MAXIMUM LIMITS of occupation and exploitation of the FINISHED VIABLE CONTEXT in which it exists.

If a society finds itself truly idle due to reaching its physical LIMITS, it can then focus its ACTION on TRAINING, CULTURE, IMPROVEMENT of what is already there... and RESEARCH for extending the PERENNIALITY of the LIVING in the UNIVERSE !

C2 – Research

Main research axes to pursue/launch over our century:

- 1. Continuously updated global institutional "Wikipedia" (managed by the Universities and National Centers for Scientific Research of the world):
 - a. languages,
 - b. logic,

- c. mathematics,
- d. description of the world hierarchically organized according to the constitution of the Universe: TIME – SPACE – MATTER – ENERGY – LIVING - Technology, ergonomic with popularization pages for complex subjects.
- 2. Finalize the stages of global automation ("Artificial Intelligence"): language, vision,... (logic, mathematics, description of the world,... already available in digital).
- 3. Gain a calculation scale factor of 1000 (?)... in accuracy and speed with quantum computers.
- 4. Living perenniality in the Universe:
 - a. appropriate this opening from a biological and societal point of view,
 - b. first technological steps :
 - i. 3 terrestrial linear catapults to space working on renewable energy (Hyperloop-Spinlaunch mix; one in the Andes mountain and two in the Himalayas, for example),
 - ii. Anti-meteorite barrier (nuclear bombs, others...),
 - iii. 2 space bases with 1000 inhabitants in Earth orbit,
 - iv. 1 space base with 1000 inhabitants in lunar orbit,
 - v. 3 bases/greenhouses on the Moon with 300 inhabitants,...

<u>General remark for academic research</u>: A problem can be well posed and a solution proposed to this problem rigorously demonstrated from a scientific point of view, without reference to any scientific source.

For example, posing and proving the Pythagorean theorem can be done by "anyone" without any reference; and the intellectual exercise will make all the more progress and will be all the more rewarding for a person, if she/he actually succeeds in doing it on her/his own, rather than reading references on the subject.

Citing sources is therefore not a way of "validating that an approach is scientific". It responds to a need to position a proposal in the current state of knowledge to specify the "intellectual property" of the proposal when it comes to fairly evaluating a work, as to identify how the work makes a new contribution or not, the objective of academic research being to advance the content of KNOWLEDGE.

As a matter of fact, it brings nothing to Mathematics today to reprove the Pythagorean theorem... and to browse references will allow researchers, especially the youngest, to arrive quickly "on the knowledge front", rather than spending a lot of time re-demonstrating how all the wheels roll.

LIVING – EQUALITY (TO ACT/TO HAVE) – PERENNIALITY

ACTION DETAILED BREAKDOWN "Local autonomy" everywhere

				ΤΟ ΑΟΤ					
Der	emographic				B. MAKE				
	levels ion minimum size* which a region	mum size* quotient Number and renewal of mar region		D. ADMINISTRATION Number and renewal of managers representing and coordinating the d august		PRIMARY RESOURCES (TIME, SPACE, MATTER, ENERGY, LIVING)			
shall be autonomous for the issues given in the corresponding line		1<= Q _r <=2 Qr =1 + 0,1*LOG ₁₀ (1+N) (**)	the 3 powers FINITE BIOSPHERE ACTION DISTRIBUTION	+ C.1. TRANSMIT Cohabit - Knowledge - Skills	B.o Maintenance and recycling	B.a Intake from the environment Inert Living Extraction Agriculture			
	> 1000 people	1,3	3 people (500h/year) for 3 years	0-6 years old elementary school	Hand made tools				
	> 10 000 people	1,4	3 people (500h/year) for 3 years	6-10 years old Primary school	Bicycles Small eletronic tools				
	> 100 000 people	1,5	3 people (1000h/year) for 3 years	10-18 years oldHome appliances/Middle and High schoolmotorbike		Shortest path			
Everybo	> 1000 000 people	1,6	6 people (1000h/year) for 6 years (renewed by half every 3 years)	18-21 years old Bachelor level University	Cars	Rene	wable		
dy	> 10 000 000 people	1,7	6 people (1000h/year) for 6 years (renewed by half every 3 years)		Aircrafts	Respe	ctful of		
	> 100 000 000 people	1,8	6 people (1000h/year) for 6 years (renewed by half every 3 years)	> 22 years old Master and PhD Levels		biodiversity			
	> 1000 000 000 people	1,9	9 people (1000h/year) for 9 years (renewed by a third every 3 years)	University	Space station				
	> 10 000 000 000 people	2	9 people (1000h/year) for 9 years (renewed by a third every 3 years)						
	(ING TIME TOTAL 1000h/year)		2%	15% (A) + 3% (C1)	12%	3%	4%		
	GY SPENT TOTAL Intake kWh)		1%	2% (A) + 1% (C1)	10%	12%	8%		

kWh = ENERGY used by machines

(*) the population size is the first factor, distance and isolation of certain region with very small populations may be another factor to be considered

(**) Qr = 1 + 0.1*LOG10(1+N) = Responsibility quotient: my work, my decisions impact the activities, the environment, the daily lives of how many N people?

	то	АСТ				
B.c	B. MAKE TRANSFORMATION DISTRIBUTION/USE lisation" average size :	C.2. RESEARCH KNOWLEDGE EXTENSION SKILLS AND TECHNOLOGY UPGRADE (setting up a global institutional Wikipedia continuously updated) Laboratories for :	=> PROTECT PEACE AND SECURITY (police, army, firefighter)	RELEASE IN THE ENVIRONMENT (Recycling center, cremation, etc.)		
Buidlings and Infrastructures Transport Energies Information	Food Hand made tools Bicycles Small eletronic tools Home appliances/ motorbike Cars Aircrafts Space station	Local/short term needs Regional/ medium term needs Global/ long term needs	500 people 1000h/year + 1000 people 500h/year	BELOW A MAXIMUM LEVEL ALLOWING LIFE PERENNIALITY		
15%	32%	8%	6%	2%		
20%	40%	3%	3%	1%		

OVERALL ACTION ASSESSMENT

kWh = ENERGY used by machines



"MEASURE" of the REALITY of ACTION

HUMAN's ACTION corresponds concretely to ENERGY, whether the action corresponds to actual movement or information processing (intellectual work). So the TIME of human beings spent working could be converted into ENERGY.

If the average USEFUL POWER performed by a human being, over a 7-hour workday, is approximately 70 watts, this gives :

- > an average total ENERGY output for a workday of 0.5 kWh/person/day,
- an average total ENERGY output for a 1000 working hours per year of 70kWh/person/year.

To refine the measurements, the TO ACT institution could possibly use the actual average individual power values of each person, assessed each year in the ENDURANCE category of body training.

Therefore, the MEASURE of ACTION could be an effective and homogeneous quantity of ENERGY (kWh), summing:

HUMAN ENERGY

(or LIVING energy if animals contribute to the action)

+

ENERGY used by machines

One of the primary benefits of using ENERGY (kWh) as a "cost" metric would be that it could enable much more objective TRANSPARENCY and global EQUITY:

immediately, we will become aware of how rich we are from the fact that we receive a lot, but really much more, than what we actually produce as effort by participating in the activities of the world.

As a matter of fact, while the order of magnitude of our productive ACTION per year is around 70kWh, we consume, across all sectors in Western countries, the equivalent of tens of thousands of kWh per year ! Approximately 400 to 600 times more than what we actually achieve in terms of effort, ENERGY... cf. Jean Marc Jancovici – <u>The world without end</u> - it is as if we had the equivalent of 400 to 600 slaves at our service, but in our modern world, these "slaves" are machines.

This should therefore allow us to be more FAIR in sharing our RESSOURCES and to be able to accept their LIMITS.

APPENDIX 1.3

TO HAVE

Since the inert materials and living beings present in the universe do not initially belong to anyone and therefore do not have an own "price", the <u>cost of an object would be the sum</u> of all the kWh (living + machines) required to:

- ✓ INTAKE inert MATTER and LIVING from the environment/RECYCLE,
- ✓ TRANSFORM these materials into finished products,
- ✓ DISTRIBUTE the finished products.

Thus this ENERGY cost (kWh) of an object could be its "price".

It could in particular be "engraved" on the object (or more simply recorded in a non-volatile memory for most objects that will have an integrated digital part), since it is a real physical measure of the INITIAL PRODUCTION that will not change, and which can therefore serve as a value reference point throughout the life of the object. It could possibly be updated/proposed iterations, if the product is improved during its lifetime (typically a house). Maintenance would only maintain the quality of the object and therefore its level of "value".

Besides, with this organizational structure, the MAXIMUM QUANTITY of a given type of object that the FINITE BIOSPHERE can contain would be limited upstream of PRODUCTION (RESPECT), thanks to the continuous evaluation of the MAXIMUM of SPACE occupation, of INTAKE and of RELEASE in the FINITE BIOSPHERE:

It would therefore no longer be up to the "consumer" at the end of the chain to bear the (overwhelming) responsibility of having global visibility of the world to make the right choice of product when shopping; if an object is available for "sale", it is because it would respect the planetary limits.

The TO HAVE institution would therefore have visibility on the overall volumes produced in each Prod_{x.y} domain expressed in kWh (volumes that would respect upstream planetary limits):

1.1 WATER1.2 FOOD1.3 ENERGY2.1 – 3.3 NON-VITAL RESOURCES

The populations could then vote for a MINIMUM threshold expressed in kWh in each main area, each individual i would have a right to HAVE above this MINIMUM proportional to their Pci Participation:

TO HAVE_{x.y} = MIN_{x.y} + Pc_i x Δ Prod_{x.y}

so that the sum of the rights TO HAVE_{x.y} over the number of inhabitants H is equal to the total production $Prod_{x.y}$:

 $Prod_{x,y} = \sum_{H} TO HAVE_{x,y} = H \times MIN_{x,y} + (\sum_{H} Pc_i) \Delta Prod_{x,y}$

For housing specifically, in addition to this right TO HAVE calculated in kWh of housing manufacturing cost, a second VOLUME criteria (in m3) could be calculated in the same way, with MIN and MAX voted bounds, to limit our rights to HAVE in housing so that it respects the SPACE OCCUPATION upstream planetary LIMIT.

We would thus have at any given moment our estimate of our rights TO HAVE in each domain, expressed in kWh (and in m3 for housing), always with the FREEDOM TO CHOOSE what we wish to consume or own based on our personal criteria:

- Desire,
- Utility/Functions,
- Performance,
- Lifespan,
- Social esteem: aesthetic, symbolic, sentimental, rarity...

The idea of gathering NON-VITAL RESOURCES (operational and social) into a common right TO HAVE would precisely allow everyone to "freely" live their lives as they wish:

✓ If someone with a relatively high level of Participation grants a right TO HAVE in kWh slightly higher than a Porsche, and wants to have it by agreeing to live in a 25 m² apartment, thus not exceeding their total right to have, this should be possible (just as we personaly manage our monetary counter in 2020 Gregorian calendar).

"Free exchange":

The question of "free trade" ultimately only poses the question of PROPERTY: "whose thing does this belong to?"

Indeed, once PRODUCTION is carried out with respect for what it can take and reject in the inert and living environment, once human beings have perceived from PRODUCTION their rights to HAVE proportionate to their PARTICIPATION, the freedom to exchange between individuals what they have received remains completely possible and "free".

However, for major assets exchange (car, house, etc.), this "freedom" would be "protected" by mediators from the TO HAVE institution to establish equity equivalences, and avoid errors or abuse of power which would penalize one of the two parties, or worse which would endanger its survival.

In particular, exchanges would primarily take place within the same RESOURCE to be shared:

1.2 Food: apples for pears, eggs for a chicken, etc.

2.1 House: moving would be a simple, almost cost-free (automated), procedure of renaming the "owner", i.e. the exclusive occupant of the premises. The Cumulative Participation would directly indicate the "level" (surface, garden, facilities, etc) of real estate that could be accessed.

2.2 Tools: a rake for a spade, a smartphone for a PC, etc.

3.3 Culture & leisure: cinema tickets for entries to an amusement park.

Conversely, for example, it would generally not be possible to exchange:

- one's week food for a bicycle,
- one's day drinking water for a movie ticket,
- one's house for a tennis court,
- ... etc

APPENDIX 2 - Universal Terrestrial Calendar

In order to be precisely synchronized with all the cycles of the nearby Universe, a Universal Terrestrial Calendar could be set up as follow:



- Annual rhythm synchronized with the rotation around the sun:
 - Shift of the entire calendar so that January 1 coincides with the Earth Southern solstice, December 21 of the Gregorian calendar.
- 12 months simply alternating between 30 days and 31 days = 366 days per year (no more of the very strange rule of counting on your knuckles to know the positioning of the months at 30 and 31 days); the february month being reduced by 1 day (from 31 to 30 days) 3 years out of 4, this month only being equal to 31 days in leap years due to the fact that the Earth goes around the sun in 365.25 days.
- In order to be in harmony with the pace of a large part of the planet (the northern hemisphere containing 90% of the world population, two thirds of the land surface), the new year could be chosen to be the northern soltice, meaning July 1st of the Universal Terrestrial calendar (June 21st of the Gregorian calendar), allowing to synchronize the civil calendar and school calendar for a lot of nations : the nations of the northern hemisphere would start with the summer vacation on July 1st with the New Year celebration.
- Year 1 could be shifted to the year of a major event in the history of terrestrial life over the last few millennia: the first step of terrestrial life on another space rock, the first step on the Moon the 21st of july 1969 Gregorian Calendar; the 21st of june 1969 Gregorian calendar = 21/06/1969 G. cal. would become the 1st of July of year 1 Universal Terrestrial Calendar = 01/01/0001 U. T. cal.
 - 01-juil U.T. cal. = Earth Northern solstice: Celebration of the LIVING and its mystery celebration of all the arts NEW YEAR (21st of June Gregorian calendar)
 - 01-janv U.T. cal. = Earth Southern solstice: celebration of the sun, the stars, the mystery of the origins of the Universe : TIME SPACE MATTER ENERGY (21st of Decembrer Gregorian calendar)
 - August 1st of the Universal Terrestrial Calendar could become the Annual International Celebration for the Living Perenniality commemorating this date of 21/07/1969 cal. G.
 = 01/02/0001 cal. U. T.

CALENDARS

www.peacenlive.com proposition

	Gre	gorian		Terrestrial Universal					
Days/year	Day	Month	Year	Day	Month	Year	Days/year		
335	1-Dec			12-Dec			164		
336	2-Dec			13-Dec			165		
337	3-Dec	_		14-Dec			166		
338 339	4-Dec 5-Dec	-		15-Dec 16-Dec			167 168		
340	6-Dec	-		17-Dec	-		169		
341	7-Dec			18-Dec			170		
342	8-Dec			19-Dec			171		
343	9-Dec			20-Dec	06		172		
344	10-Dec	_		21-Dec			173		
345 346	11-Dec 12-Dec	-		22-Dec 23-Dec	December		174 175		
347	13-Dec	_		23-Dec 24-Dec			175		
348	14-Dec			25-Dec			177		
349	15-Dec	12		26-Dec			178		
350	16-Dec		N-1	27-Dec	-		179		
351	17-Dec	December		28-Dec			180		
352	18-Dec			29-Dec	-		181		
353 354	19-Dec 20-Dec			30-Dec 31-Dec			182 183		
355	20-Dec 21-Dec			1-Jan			185		
356	22-Dec			2-Jan			185		
357	23-Dec			3-Jan			186		
358	24-Dec	_		4-Jan	-		187		
359	25-Dec	_		5-Jan			188		
360 361	26-Dec 27-Dec	-		6-Jan 7-Jan	-		189 190		
362	27-Dec 28-Dec	-		8-Jan			190		
363	29-Dec	-		9-Jan			192		
364	30-Dec			10-Jan			193		
365	31-Dec			11-Jan			194		
1	1-Jan			12-Jan		-	195		
2 3	2-Jan 3-Jan	_		13-Jan 14-Jan			196 197		
4	4-Jan	_		15-Jan	07		198		
5	5-Jan			16-Jan			199		
6	6-Jan			17-Jan	January		200		
7	7-Jan			18-Jan		M-1	201		
8	8-Jan	_		19-Jan		IVI 1	202		
9 10	9-Jan 10-Jan	_		20-Jan 21-Jan			203 204		
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12	12-Jan			23-Jan			206		
13	13-Jan			24-Jan			207		
14	14-Jan	- 01		25-Jan	-		208		
15	15-Jan	01		26-Jan			209		
16 17	16-Jan 17-Jan	January		27-Jan 28-Jan	-		210 211		
18	18-Jan	January		29-Jan			212		
19	19-Jan			30-Jan			213		
20	20-Jan			1-Feb			214		
21	21-Jan			2-Feb			215		
22 23	22-Jan 23-Jan		Ν	3-Feb 4-Feb			216 217		
23	23-Jan 24-Jan		IN	4-Feb 5-Feb			217		
25	25-Jan			6-Feb			219		
26	26-Jan			7-Feb			220		
27	27-Jan			8-Feb			221		
28	28-Jan			9-Feb			222		
29 30	29-Jan 30-Jan	-		10-Feb 11-Feb	08		223 224		
30	30-Jan 31-Jan			11-Feb 12-Feb	-		224 225		
32	1-Feb			13-Feb	February		226		
33	2-Feb			14-Feb			227		
34	3-Feb			15-Feb	(Leap		228		
35	4-Feb	02		16-Feb	month)		229		
36	5-Feb			17-Feb	monthy		230		
37 38	6-Feb 7-Feb	February		18-Feb 19-Feb			231 232		
39	8-Feb			20-Feb			232		
40	9-Feb	(Leap		21-Feb			234		
41	10-Feb			22-Feb			235		
42	11-Feb	month)		23-Feb			236		
43	12-Feb			24-Feb 25-Feb			237 238		
44	13-Feb								

	LIVII	NG – EQU	ALITY (TO ACT/	TO HAVE) –	PERENNIALII	ΓY				
46	15-Feb			27-Feb			240			
47	16-Feb			28-Feb			241			
48 49	17-Feb 18-Feb			29-Feb 30-févr			242 243			
50	19-Feb			31-févr			244			
51	20-Feb			1-Mar	-		245			
52 53	21-Feb 22-Feb			2-Mar 3-Mar			246 247			
54	23-Feb			4-Mar			248			
55	24-Feb			5-Mar			249			
56 57	25-Feb 26-Feb			6-Mar 7-Mar	-		250 251			
58	27-Feb			8-Mar			252			
59	28-Feb			9-Mar			253			
60 61	29-Feb 1-Mar			10-Mar 11-Mar	-		254 255			
62	2-Mar			12-Mar			256			
63	3-Mar	-		13-Mar			257			
64 65	4-Mar 5-Mar			14-Mar 15-Mar	09		258 259			
66	6-Mar			16-Mar			260			
67	7-Mar			17-Mar	March		261			
68 69	8-Mar 9-Mar			18-Mar 19-Mar			262 263			
70	10-Mar			20-Mar			263			
71	11-Mar			21-Mar			265			
72 73	12-Mar			22-Mar			266			
73	13-Mar 14-Mar			23-Mar 24-Mar			267 268			
75	15-Mar	03		25-Mar			269			
76	16-Mar			26-Mar			270			
77 78	17-Mar 18-Mar	March		27-Mar 28-Mar			271 272			
79	19-Mar			29-Mar			272			
80	20-Mar			30-Mar			274			
81 82	21-Mar 22-Mar					1-Apr 2-Apr	-		275 276	
83	23-Mar			3-Apr			277			
84	24-Mar		4-Apr			278				
85 86	25-Mar 26-Mar			5-Apr 6-Apr	-		279 280			
87	20-Mar					7-Apr	-		280	
88	28-Mar					8-Apr			282	
89 90	29-Mar 30-Mar					9-Apr 10-Apr			283 284	
91	31-Mar						11-Apr			284
92	1-Apr			12-Apr			286			
93	2-Apr						13-Apr	_		287
94 95	3-Apr 4-Apr				14-Apr 15-Apr	10		288 289		
96	5-Apr			16-Apr	April		290			
97	6-Apr	-		17-Apr			291			
98 99	7-Apr 8-Apr			18-Apr 19-Apr			292 293			
100	9-Apr			20-Apr			294			
101	10-Apr			21-Apr			295			
102 103	11-Apr 12-Apr		Ν	22-Apr 23-Apr		M-1	296 297			
103	13-Apr		IN IN	23-Apr 24-Apr		IVI-T	298			
105	14-Apr	04		25-Apr			299			
106 107	15-Apr 16-Apr			26-Apr 27-Apr			300 301			
107	17-Apr	April		28-Apr			302			
109	18-Apr			29-Apr			303			
110 111	19-Apr 20-Apr			30-Apr 31-avrl			304 305			
112	20-Apr 21-Apr			1-May			305			
113	22-Apr			2-May			307			
114 115	23-Apr 24-Apr			3-May 4-May			308 309			
115	25-Apr			5-May			310			
117	26-Apr			6-May			311			
118 119	27-Apr 28-Apr			7-May 8-May			312 313			
119	28-Apr 29-Apr			9-May			313 314			
121	30-Apr			10-May	11		315			
122	1-May			11-May			316			
123 124	2-May 3-May			12-May 13-May	May		317 318			
125	4-May			14-May			319			
126	5-May	05		15-May			320			
127 128	6-May 7-May	May		16-May 17-May	-		321 322			
128	8-May	iviay		18-May			323			
130	9-May			19-May			324			
131 132	10-May 11-May			20-May 21-May			325 326			
152	11-May			21-May			520			

MILKY WAY – SUN – EARTH

66/70 UNIVERSAL DECLARATION OF LIVING BEINGS COEXISTENCE

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133	12-May			22-May			327
134	13-May			23-May			328
135	14-May			24-May			329
136	15-May			25-May			330
137	16-May			26-May			331
138	17-May			27-May			332
139	18-May			28-May			333
140	19-May			29-May			334
141	20-May			30-May			335
142	21-May			1-Jun			336
143	22-May			2-Jun			337
144	23-May			3-Jun			338
145	24-May			4-Jun			339
146	25-May			5-Jun			340
147	26-May			6-Jun			341
148	27-May			7-Jun			342
149	28-May			8-Jun			343
150	29-May			9-Jun			344
151	30-May			10-Jun			345
152	31-May			11-Jun			346
153	1-Jun			12-Jun			347
154	2-Jun			13-Jun			348
155	3-Jun			14-Jun	4.2		349
156	4-Jun			15-Jun	12		350
157	5-Jun			16-Jun	1		351
158	6-Jun			17-Jun	June		352
159	7-Jun			18-Jun			353
160	8-Jun			19-Jun			354
161	9-Jun			20-Jun			355
162	10-Jun			21-Jun			356
163 164	11-Jun 12-Jun			22-Jun 23-Jun			357
	12-Jun			1			358
165	13-Jun			24-Jun			359
166 167	14-Jun	06		25-Jun			360 361
168	15-Jun			26-Jun			362
169	16-Jun 17-Jun	June		27-Jun 28-Jun			363
170	17-Jun 18-Jun			29-Jun			364
170	19-Jun			30-Jun			365
171	20-Jun			31-juin			365 366
172	20-Jun 21-Jun			1-Jul			1
174	22-Jun			2-Jul			2
174	23-Jun			3-Jul			3
175	24-Jun			4-Jul			4
177	25-Jun			5-Jul			5
178	26-Jun			6-Jul			6
179	27-Jun			7-Jul			7
180	28-Jun			8-Jul			8
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67/70 UNIVERSAL DECLARATION OF LIVING BEINGS COEXISTENCE

LIVING – EQUALITY (TO ACT/TO HAVE) – PERENNIALITY

	LIVII	NG – EQU	ALITY (TO ACT/	IOHAVE) –	PERENNIALITY
221	8-Aug			19-Aug	
222	9-Aug			20-Aug	
223	10-Aug	ļ		21-Aug	
224	11-Aug			22-Aug	
225	12-Aug	-		23-Aug	
226	13-Aug	-		24-Aug	
227	14-Aug			25-Aug	
228	15-Aug	-		26-Aug	
229	16-Aug	-		27-Aug	
230	17-Aug	-		28-Aug	
231	18-Aug	4		29-Aug	
232	19-Aug	-		30-Aug	
233	20-Aug	-		31-Aug	
234	21-Aug	-		1-Sep	
235	22-Aug			2-Sep	
236	23-Aug			3-Sep	
237	24-Aug	4		4-Sep	
238 239	25-Aug	-		5-Sep 6-Sep	
239	26-Aug 27-Aug	-		7-Sep	
240	28-Aug	-		8-Sep	
241 242		4		9-Sep	
242	29-Aug 30-Aug	4		10-Sep	
243	31-Aug	-		11-Sep	
244 245	1-Sep			12-Sep	
245	2-Sep	•		13-Sep	
240	3-Sep			14-Sep	03
248	4-Sep			15-Sep	05
249	5-Sep			16-Sep	September
250	6-Sep			17-Sep	September
251	7-Sep			18-Sep	
252	8-Sep			19-Sep	
253	9-Sep			20-Sep	
254	10-Sep			21-Sep	
255	11-Sep			22-Sep	
256	12-Sep	-		23-Sep	
257 258	13-Sep 14-Sep			24-Sep 25-Sep	
259	14-Sep	09		26-Sep	
260	16-Sep			27-Sep	
261	17-Sep	September		28-Sep	
262	18-Sep			29-Sep	
263	19-Sep			30-Sep	
264	20-Sep			1-Oct	
265	21-Sep			2-Oct	
266	22-Sep			3-Oct	
267	23-Sep			4-Oct	
268	24-Sep			5-Oct	
269	25-Sep			6-Oct	
270	26-Sep			7-Oct	
271	27-Sep			8-Oct	
272	28-Sep			9-Oct	
273	29-Sep	-		10-Oct	
274	30-Sep			11-Oct	
275	1-Oct			12-Oct	
276	2-Oct	-		13-Oct	
277	3-Oct			14-Oct	04
278	4-Oct	-		15-Oct	04
279	5-Oct			16-Oct	
280	6-Oct	-		17-Oct	October
281	7-Oct			18-Oct	
282	8-Oct			19-Oct	
283 284	9-Oct			20-Oct	
204	10-Oct				
205	10-Oct	-		21-Oct	
285	11-Oct			21-Oct 22-Oct	
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1 1-24m 12-4m 13-4m 13-	365	30-Dec			10-Jan			193		
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3 3-Jan 14-Jan 07 197 4 4-Jan 15-Jan 15-Jan 199 6 6-Jan 7-Jan 18 19-Jan 7 7-Jan 10-Jan 10-Jan 10-Jan 10-Jan 10-Jan 10-Jan 10-Jan 10-Jan 20-Jan 21-Jan	1	1-Jan			12-Jan			195		
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MILKY WAY – SUN – EARTH

69/70 UNIVERSAL DECLARATION OF LIVING BEINGS COEXISTENCE

1-lan	Earth Southern solstice: celebration of the sun, the stars, the mystery of the origins of the Universe : TIME - SPACE - MATTER - ENERGY (21st of Decembrer Gregorian calendar)
	Earth Northern solstice: NEW YEAR celebration - Celebration of the LIVING and its mystery - celebration of all the arts (21st of June Gregorian calendar)
1-Aug	Celebration of the LIVING PERENNIALITY in the Universe: Celebration of the first step of terrestrial life on another space rock carried out on 01/02/0001 (21/07/1969 Gregorian calendar)

Gregorian calendar years (N)	Universal Terrestrial calendar years (M) (the 21st of june of year N cal. G)	Gregorian calendar years (N)	Universal Terrestrial calendar years (M) (the 21st of june of year N cal. G)	Gregorian calendar years (N)	Universal Terrestrial calendar years (M) (the 21st of june of year N cal. G)	Gregorian calendar years (N)	Universal Terrestrial calendar years (M) (the 21st of june of year N cal. G)
1920	-49	1969	1	2018	50	2067	99
1921	-48	1970	2	2019	51	2068	100
1922	-47	1971	3	2020	52	2069	101
1923	-46	1972	4	2021	53	2070	102
1924	-45	1973	5	2022	54	2071	103
1925	-44	1974	6	2023	55	2072	104
1926	-43	1975	7	2024	56	2073	105
1927	-42	1976	8	2025	57	2074	106
1928	-41	1977	9	2026	58	2075	107
1929	-40	1978	10	2027	59	2076	108
1930	-39	1979	11	2028	60	2077	109
1931	-38	1980	12	2029	61	2078	110
1932	-37	1981	13	2030	62	2079	111
1933	-36	1982	14	2030	63	2080	112
1934	-35	1983	15	2032	64	2081	112
1935	-34	1984	16	2032	65	2082	113
1936	-33	1985	10	2034	66	2083	115
1930	-32	1986	18	2035	67	2083	115
1938	-31	1987	19	2036	68	2085	110
1939	-30	1988	20	2037	69	2085	117
1939	-29	1988	20	2037	70	2080	118
1940	-29	1989	22	2038	70	2087	119
1941	-28	1990	22	2039	71 72	2088	120
1942	-27	1991	23	2040	72	2089	121
1943	-26	1992	24 25	2041	73	2090	122
-	-25	1993	25	2042	74		123
1945 1946	-24 -23	1994	20	2043	75	2092 2093	124
1946	-23	1995	27	2044	76	2093	125
1947	-22 -21	1998	28	2045	77	2094	120
1948	-21	1997	30	2046	78	2095	127
	-20		30	2047	80	2098	128
1950	-	1999					
1951	-18	2000	32	2049	81	2098	130
1952	-17 -16	2001 2002	33 34	2050	82 83	2099 2100	131 132
1953			34 35	2051	83		132
1954 1955	-15 -14	2003 2004	35	2052 2053	84	2101 2102	133
	-14 -13						
1956		2005	37	2054	86	2103	135
1957	-12	2006	38	2055	87	2104	136
1958	-11	2007	39	2056	88	2105	137
1959	-10	2008	40	2057	89	2106	138
1960	-9	2009	41	2058	90	2107	139
1961	-8	2010	42	2059	91	2108	140
1962	-7	2011	43	2060	92	2109	141
1963	-6	2012	44	2061	93	2110	142
1964	-5	2013	45	2062	94	2111	143
1965	-4	2014	46	2063	95	2112	144
1966	-3	2015	47	2064	96	2113	145
1967	-2	2016	48	2065	97	2114	146
1968	-1	2017	49	2066	98	2115	147