

UNIVERSAL  
DECLARATION  
OF  
LIVING BEINGS  
COEXISTENCE



## *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, new “rules of the game” to popularize the exercise, if we wish to preserve the perennality 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: TO KNOW / TO ACT / TO HAVE,
- 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 Living Beings Manifesto, available free online here [www.peacenlive.com](http://www.peacenlive.com). 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.***

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

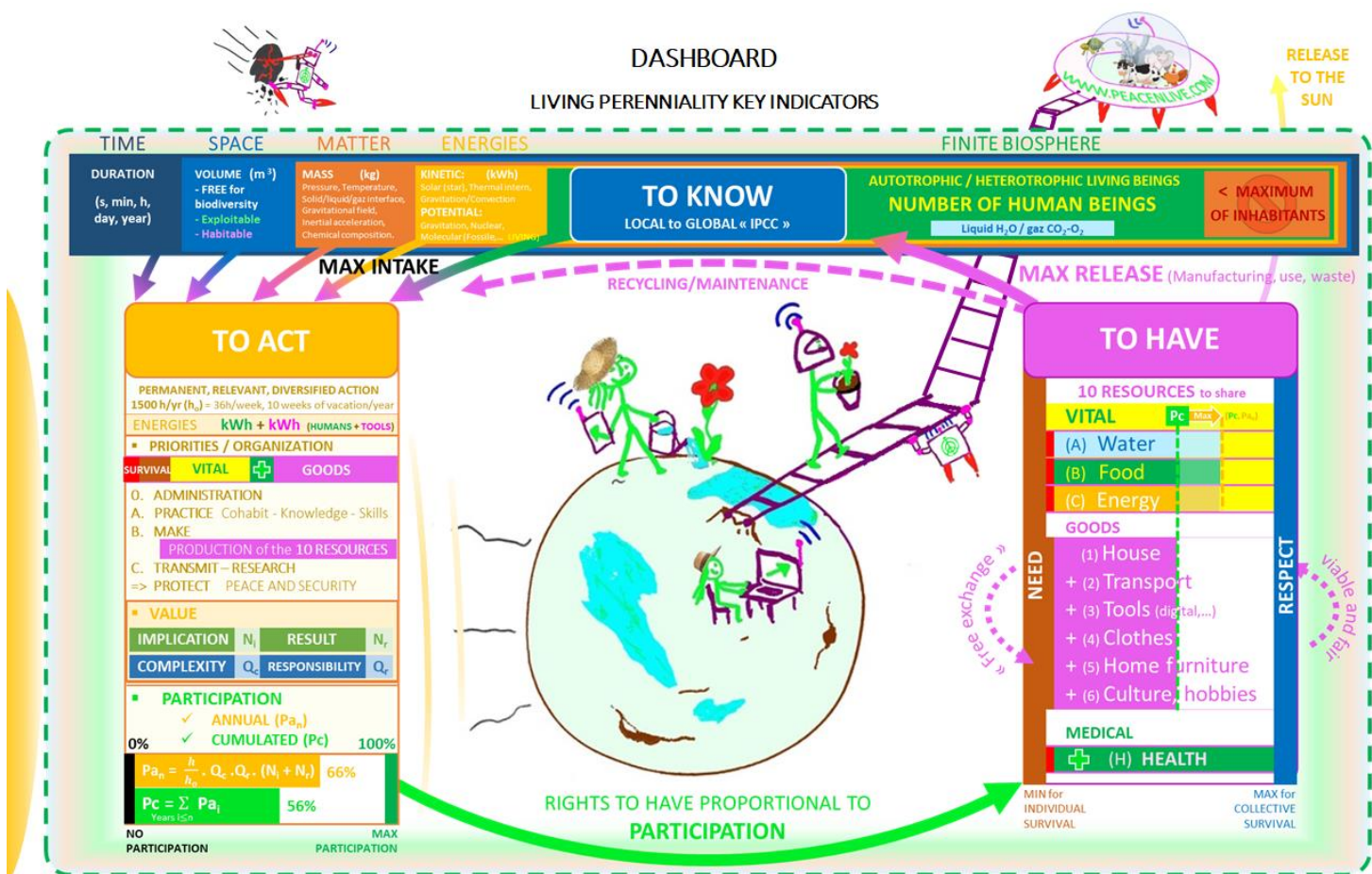
## SUMMARY

### 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 TO KNOW – TO ACT – TO HAVE updating these measures of reality:







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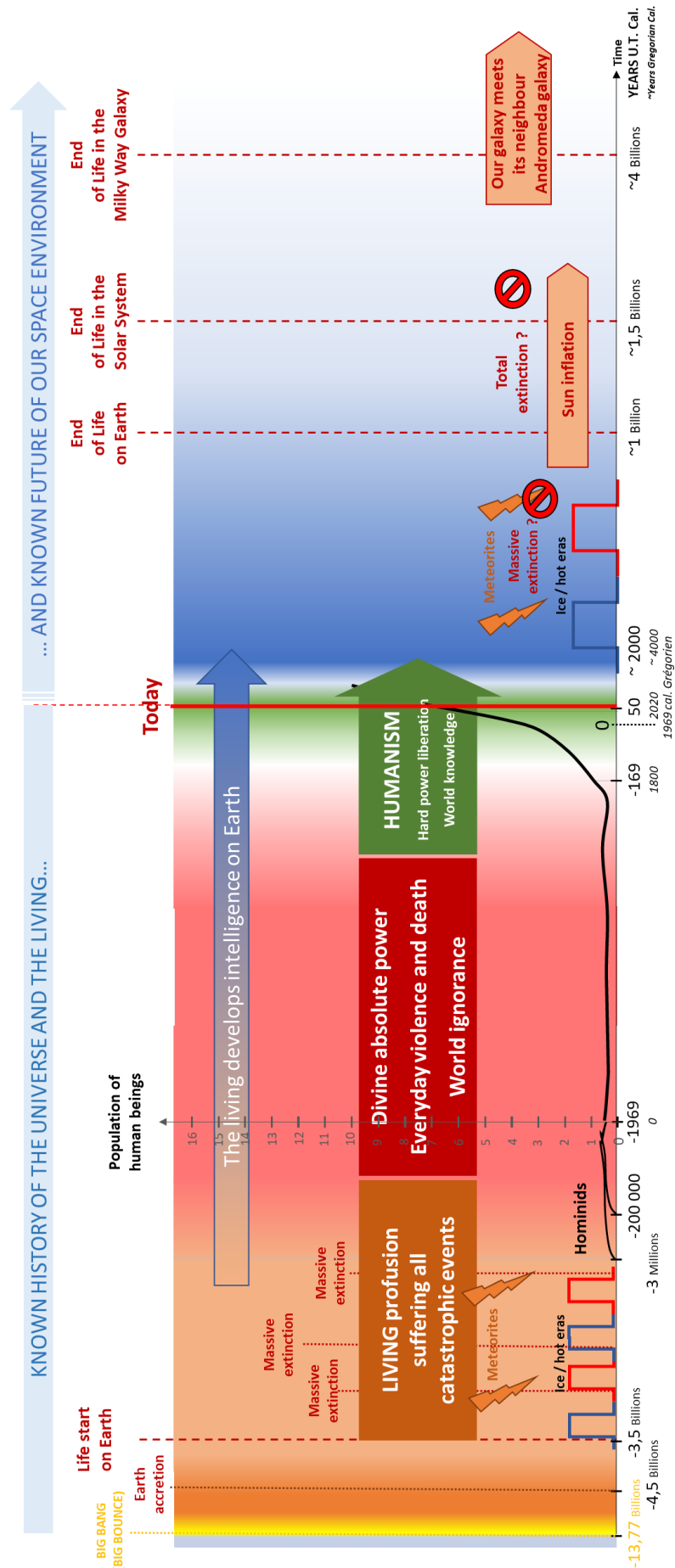
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LIVING – EQUALITY (TO ACT/TO HAVE) – PERENNIALITY

# A LIVING: COMMON HYPOTHESIS



# I. HISTORY AND FUTURE



## II. EXISTENCE IN THE UNIVERSE

### Article A.II.1

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

- ✓ 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 (H<sub>2</sub>O) 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**

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)

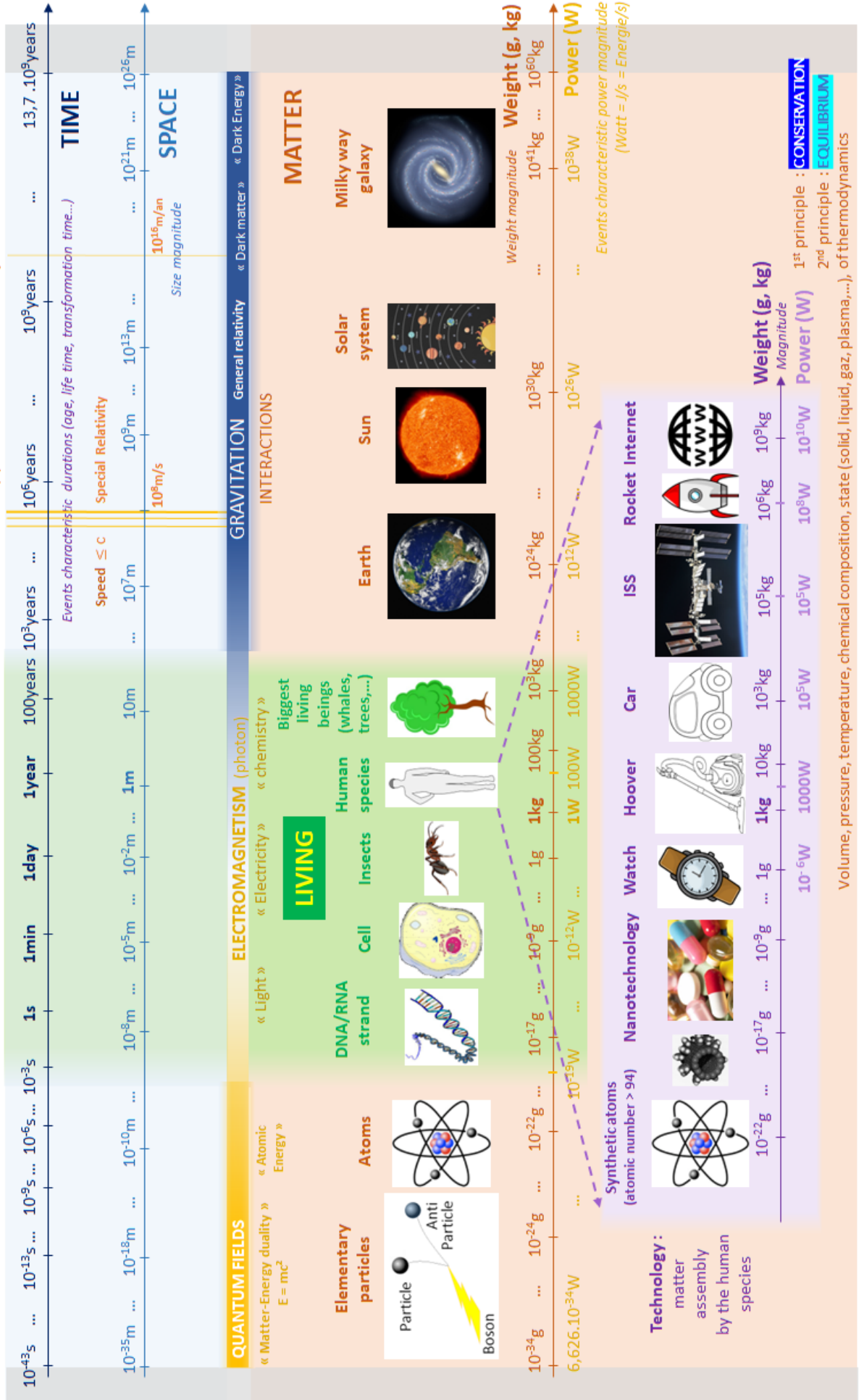
*If the capacity of existence of living beings remains a mystery, one CERTAINTY is that living beings, as we know them on Earth, cannot exist outside of the previous physical and chemical conditions.*

# KNOWN UNIVERSE FROM “THE INFINITELY SMALL” TO “THE INFINITELY LARGE”

Planck  
« Constants »

AROUND 0057 Utc (≈2025 cG)

Light  
Velocity (c)  
A light  
year



### 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 an own, spontaneous, autonomous and homogeneous capacity at every point of its interior to manage MATTER and ENERGY to carry out its process of:

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

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

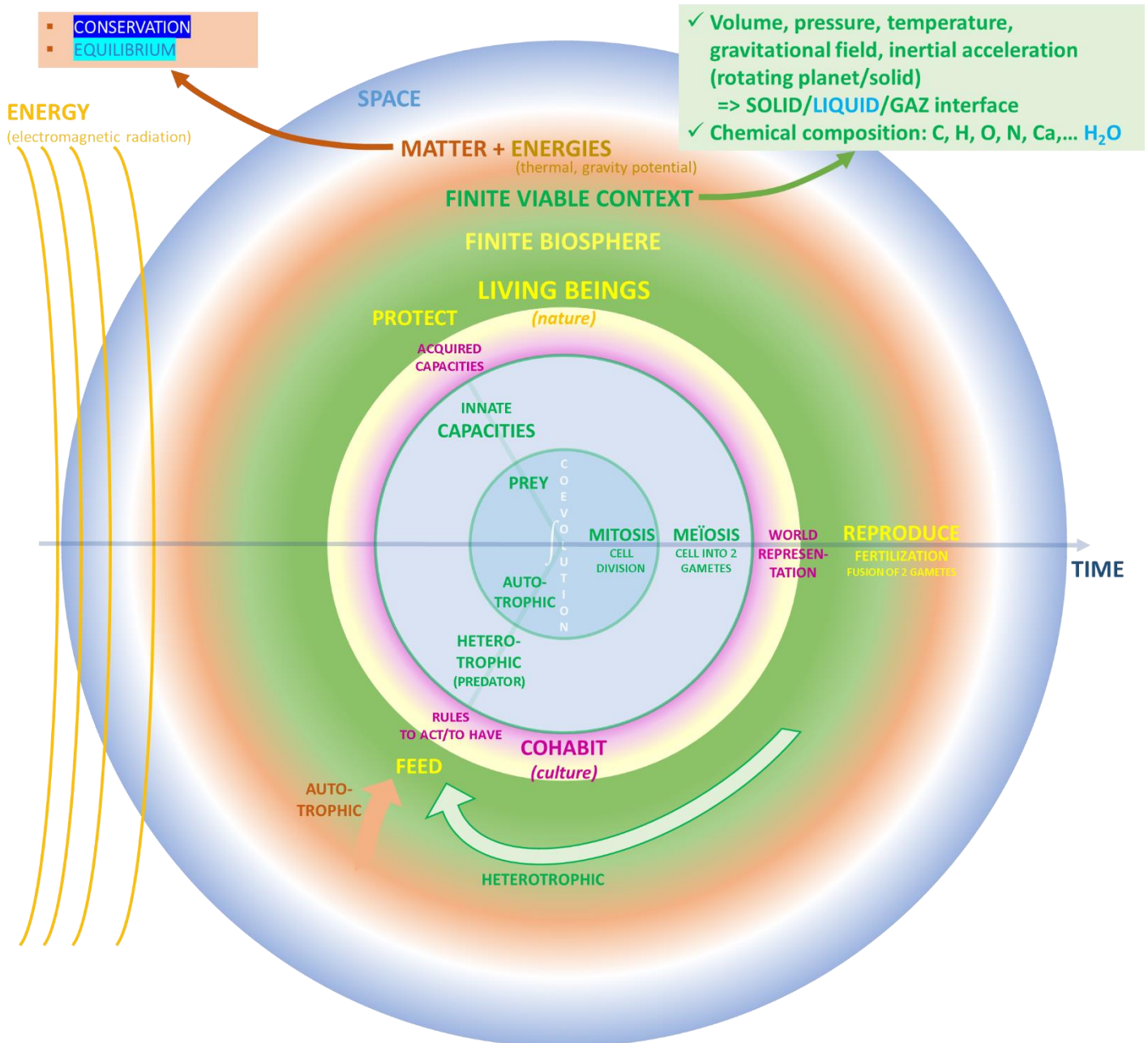
The construction of the living seems to take place around 3 stages:

- 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).
- cell division: identical replication of a cell (*mitosis*, *DNA/RNA*).
- cell fusion (*sexual reproduction*): *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:
  - self and not self (immune system);
  - their group of similar/breeding individuals (species);
  - their place in the food chain (prey/predators).
- ✓ operational capacities adapted to their environment:
  - perception in the environment (the senses: sight, hearing, etc.)
  - information processing (the nervous system, the brain, etc.)
  - 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).

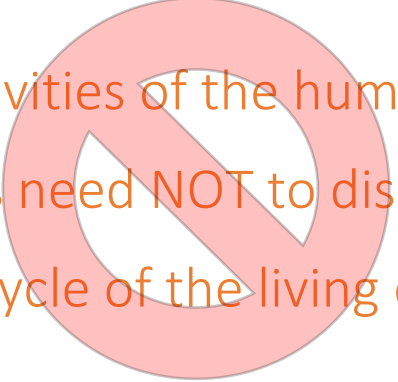
From this construction in a culture, there exists a secular inertia from which the principle of secularism is born: acceptance and respect for differences are necessary to allow peaceful cohabitation of living beings.

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 perennality 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,  
with knowledge of their LIMITS,  
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 perennality 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

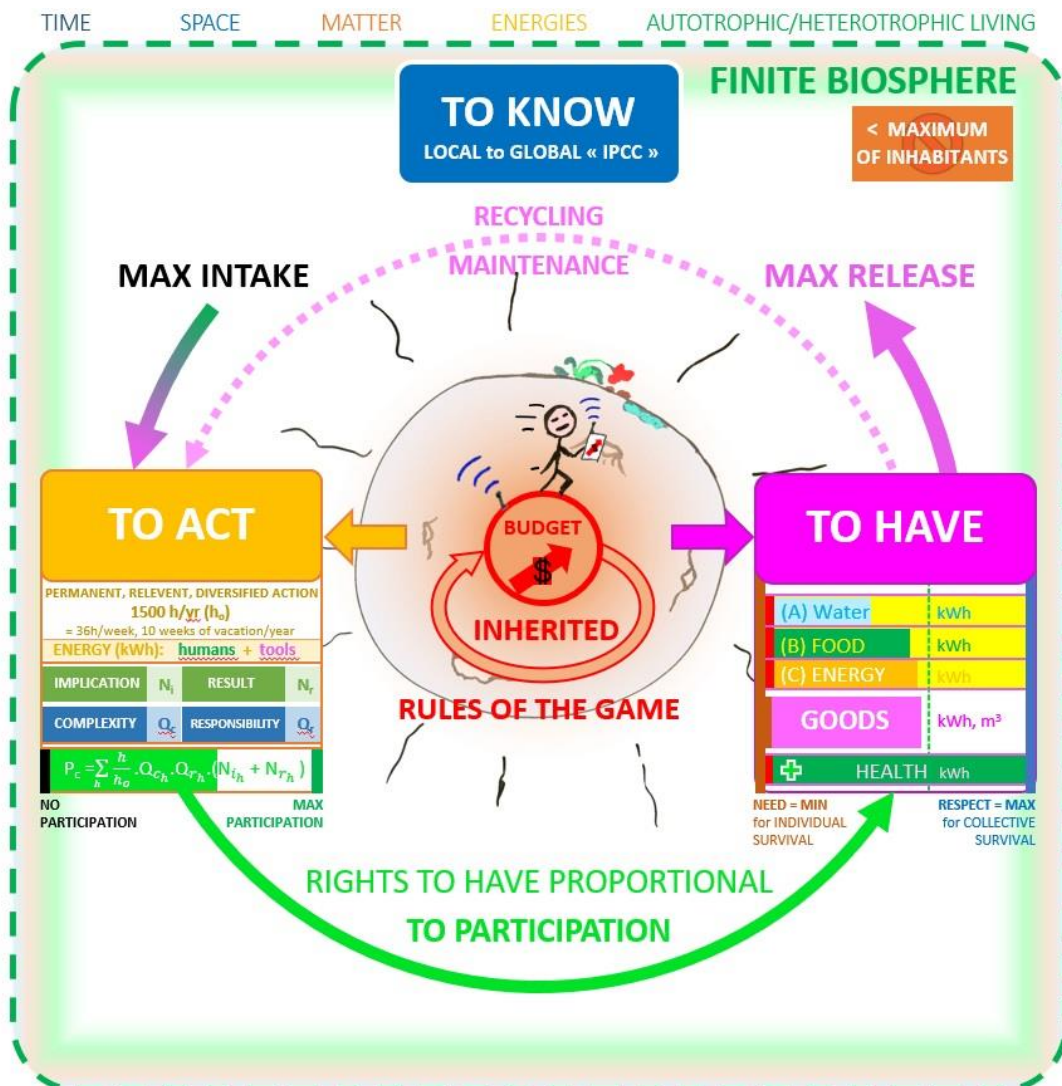
Article B.II.1

# « STATE »

=

## LOCAL AUTONOMY EVERYWHERE PROTECTED BY THE STEPBACK AND COORDINATION OF 3 TEAMS/INSTANCES

### TO KNOW – TO ACT – TO HAVE



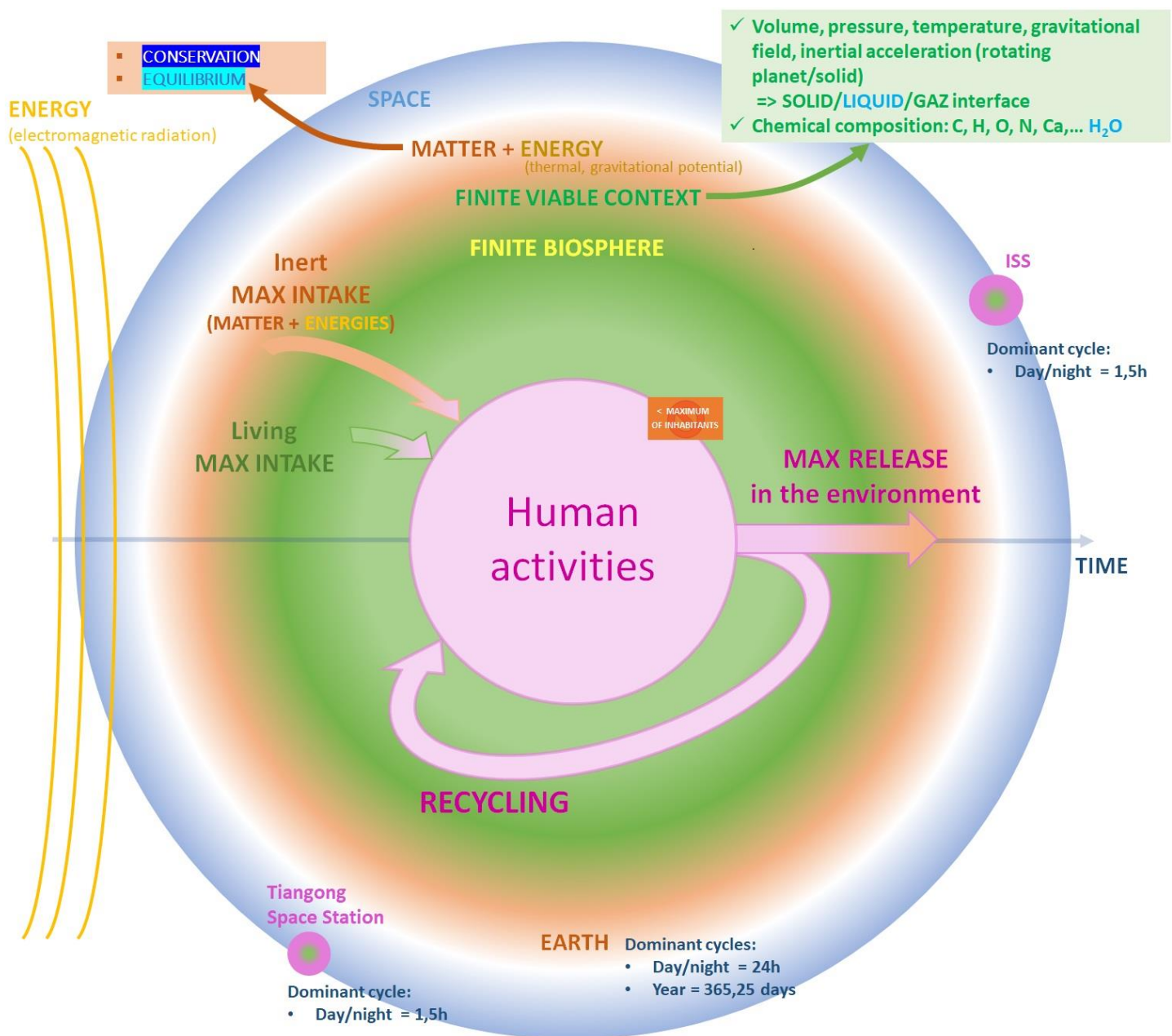


## Article B.II.2

# TO KNOW

From LOCAL to GLOBAL « IPCC » updating the KNOWLEDGE of the finite viable contexts, their measures and LIMITS.

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 occupation (volume in m<sup>3</sup> - 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 perennality.**
    - i. continuity of this inoccupied SPACE through the **FINITE BIOSPHERE** to allow the co-evolution 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 (H<sub>2</sub>O)** 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 :**

(\*) Renewable = « permanent » at the scale of a star system versus (\*\*) « NON-renewable » = finite resources at a given instant at the scale of a planet, produced from the storage of kinetic energies (= renewable on very long term)

  - a. **KINETIC (movement) :** "permanent" at the scale of a star system (renewable).
    - i. "solar" : radiation from the sun, from the star (\*),
    - ii. "planet internal" : thermal energy from the molten core of a planet (\*),
    - iii. "gravitation" : hydraulic energy from falling water, tides, etc (\*)
    - iv. "convection" : wind/hydraulic power (\*)
  - b. **POTENTIAL (stored) :**
    - i. Gravitational field/inertial acceleration (\*),
    - ii. "atomic": atoms "storing" the gravitational energy of a star (radioactive atoms) (\*\*).
    - iii. "molecular": energy "stored" in the bonds between atoms.
      - "fossil" : carbon chains storing solar energy through living beings photosynthesis (\*\*),
      - LIVING : ATP,... (used for building the living, its movement, its information processing).
  - 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 = number of human beings at the moment (0056 cUT – 2024 cG).  
*"Intelligent" = capable of building tools to cross SPACE emptiness*
  - 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.4

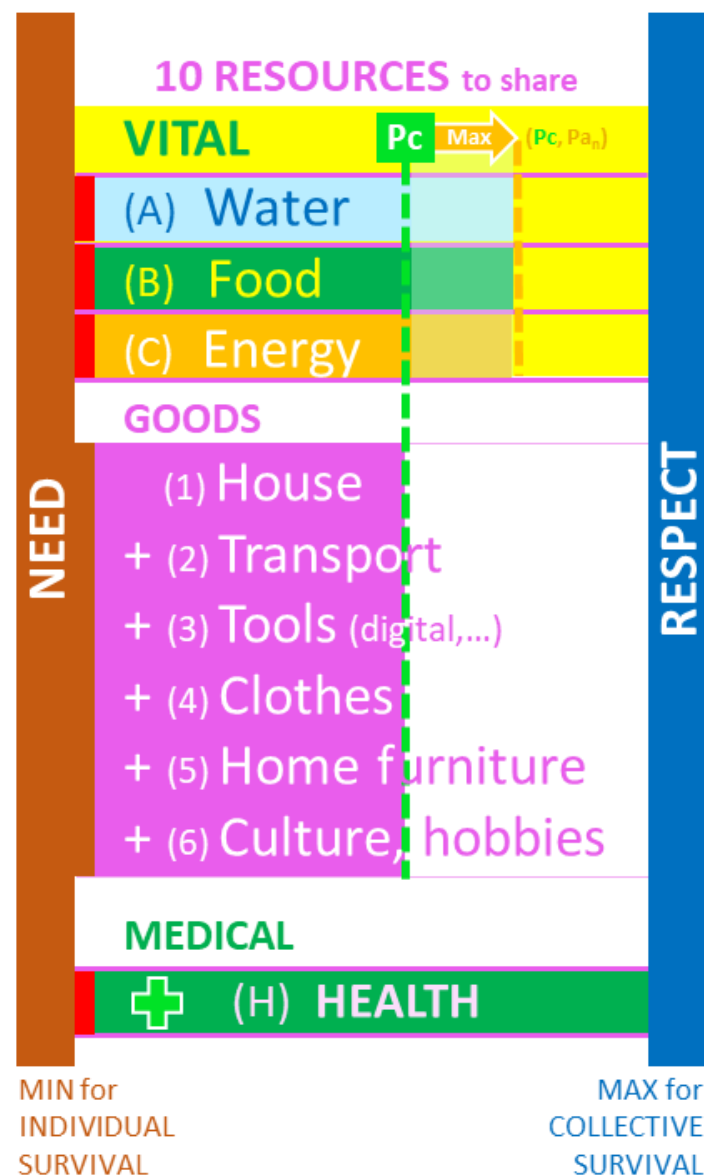
# TO HAVE

KEY INDICATORS = Measures of the reality of wealth distribution :

10 RESOURCES to be shared separately:

(PRODUCTION PRIORITIES according to the ACTION PRIORITIES color code)

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



### III. OPERATION

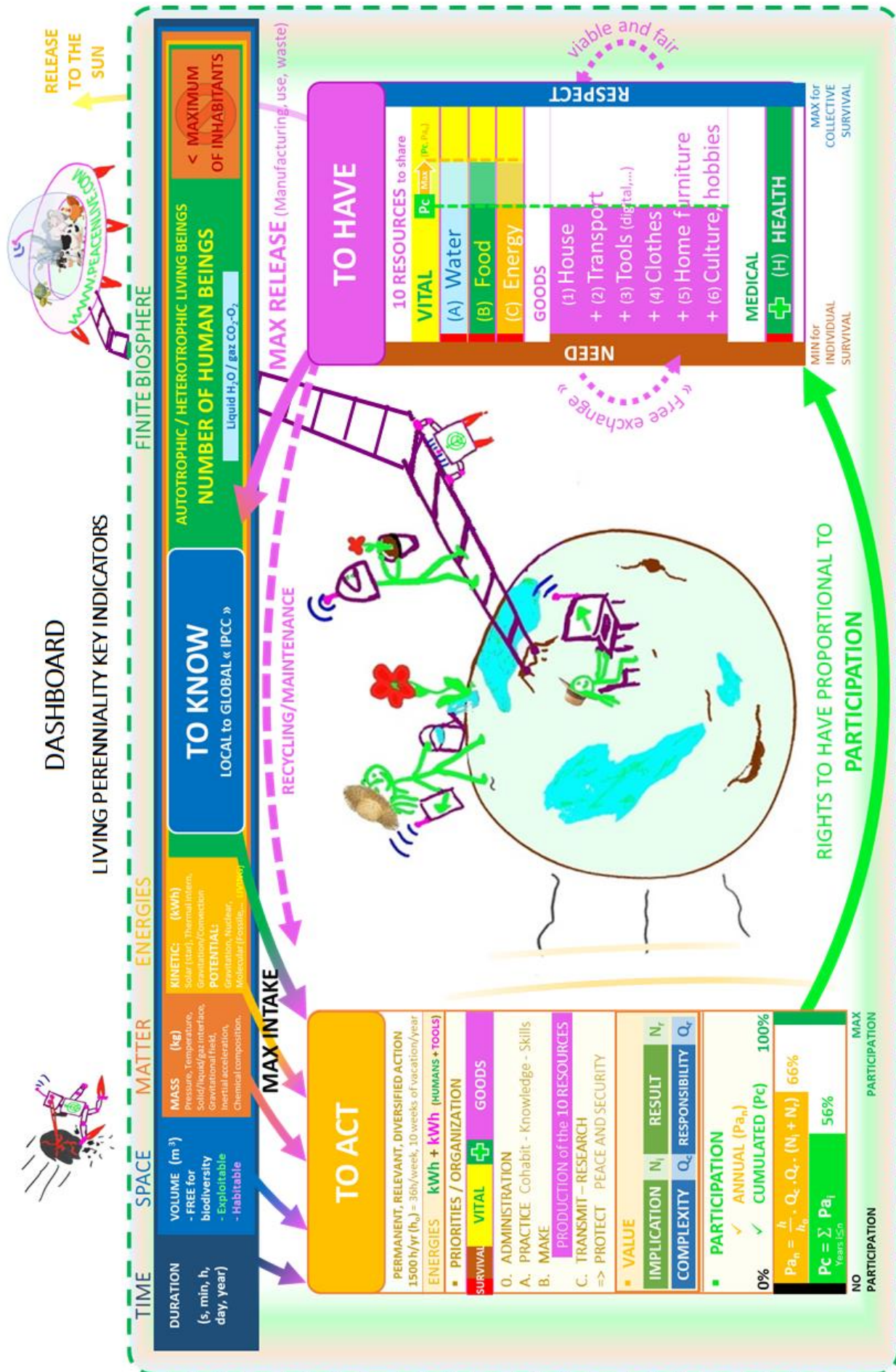
#### Article B.III.1

#### TO KNOW - 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 PRIORITIAZION of projects and orientations to be given at each level, from local to global.
- c. KNOWLEDGE AND CAPACITY : The management of the 3 INSTITUTIONS (TO KNOW, 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:









C

PERENNIALITY:

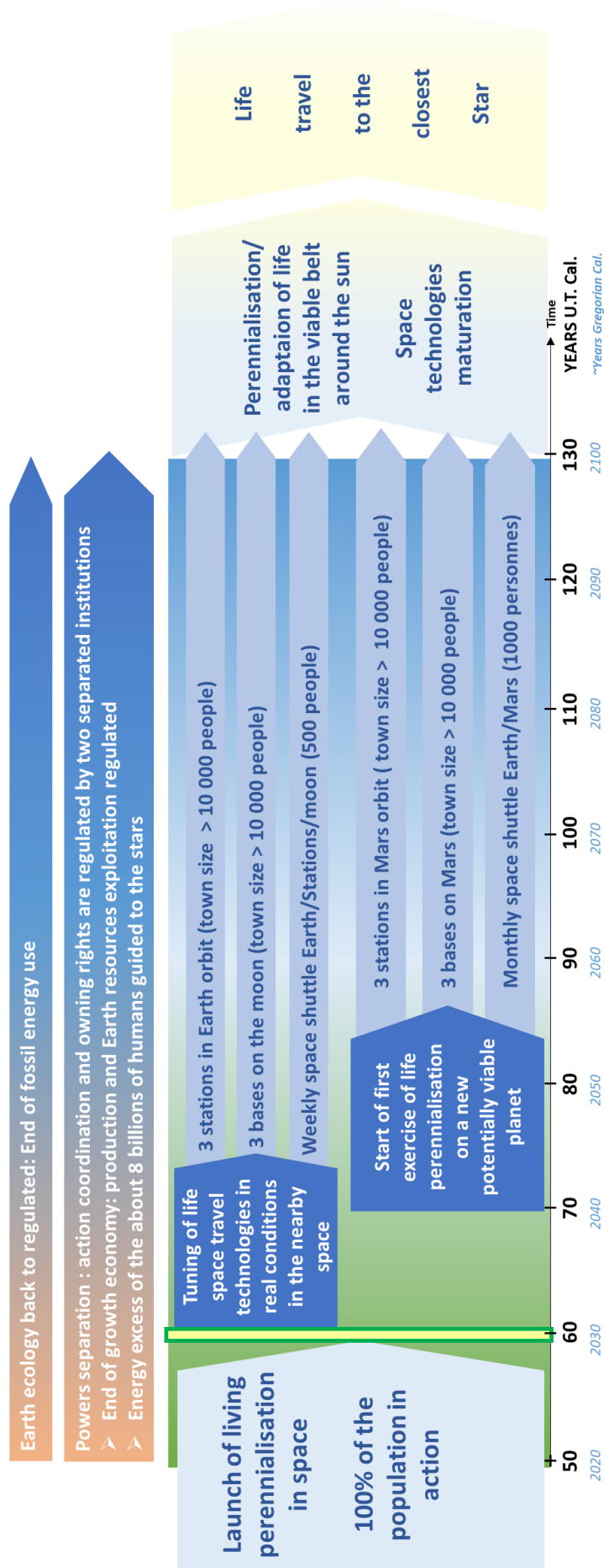
DIRECTIONS

AND

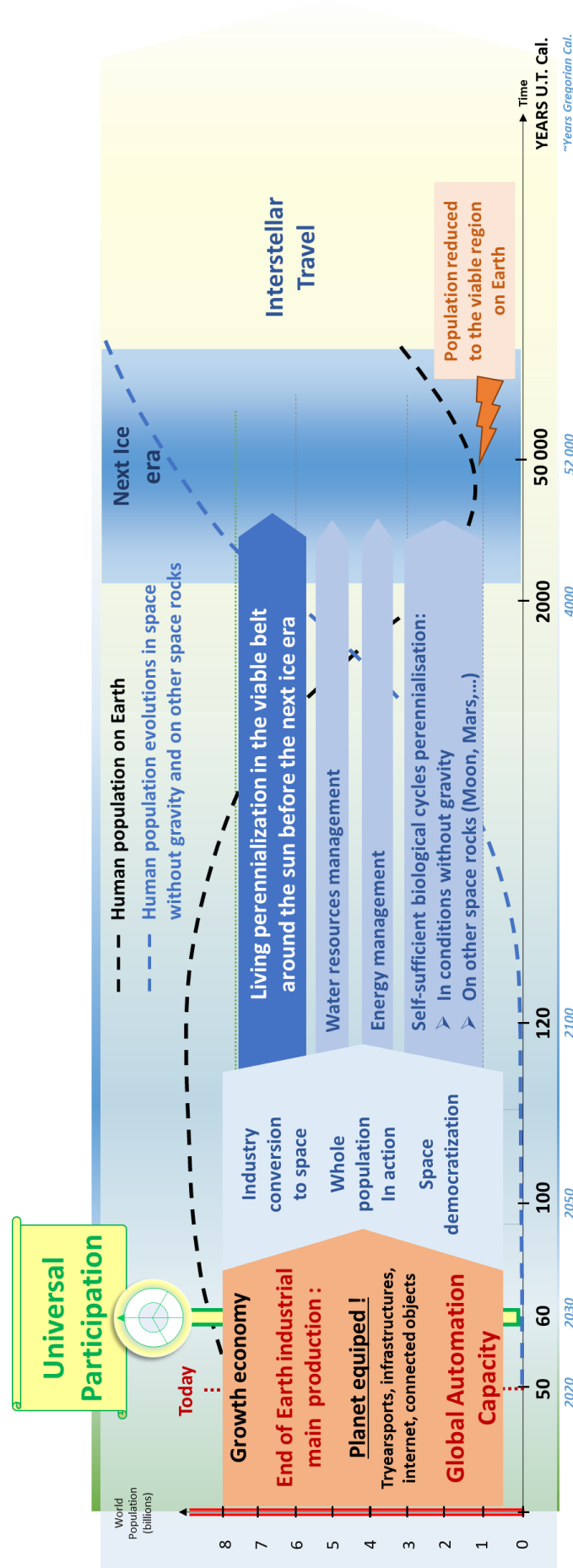
PRIORITIES



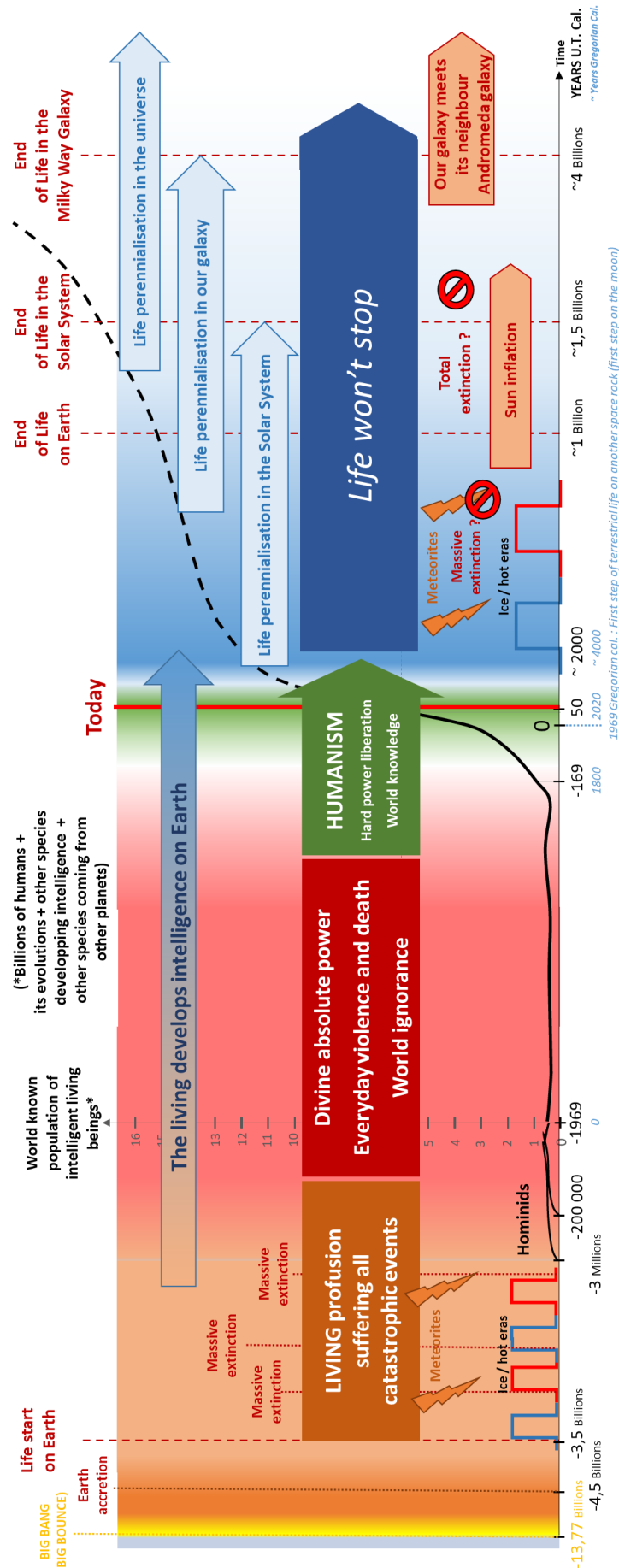
# I. SHORT TERM DIRECTIONS



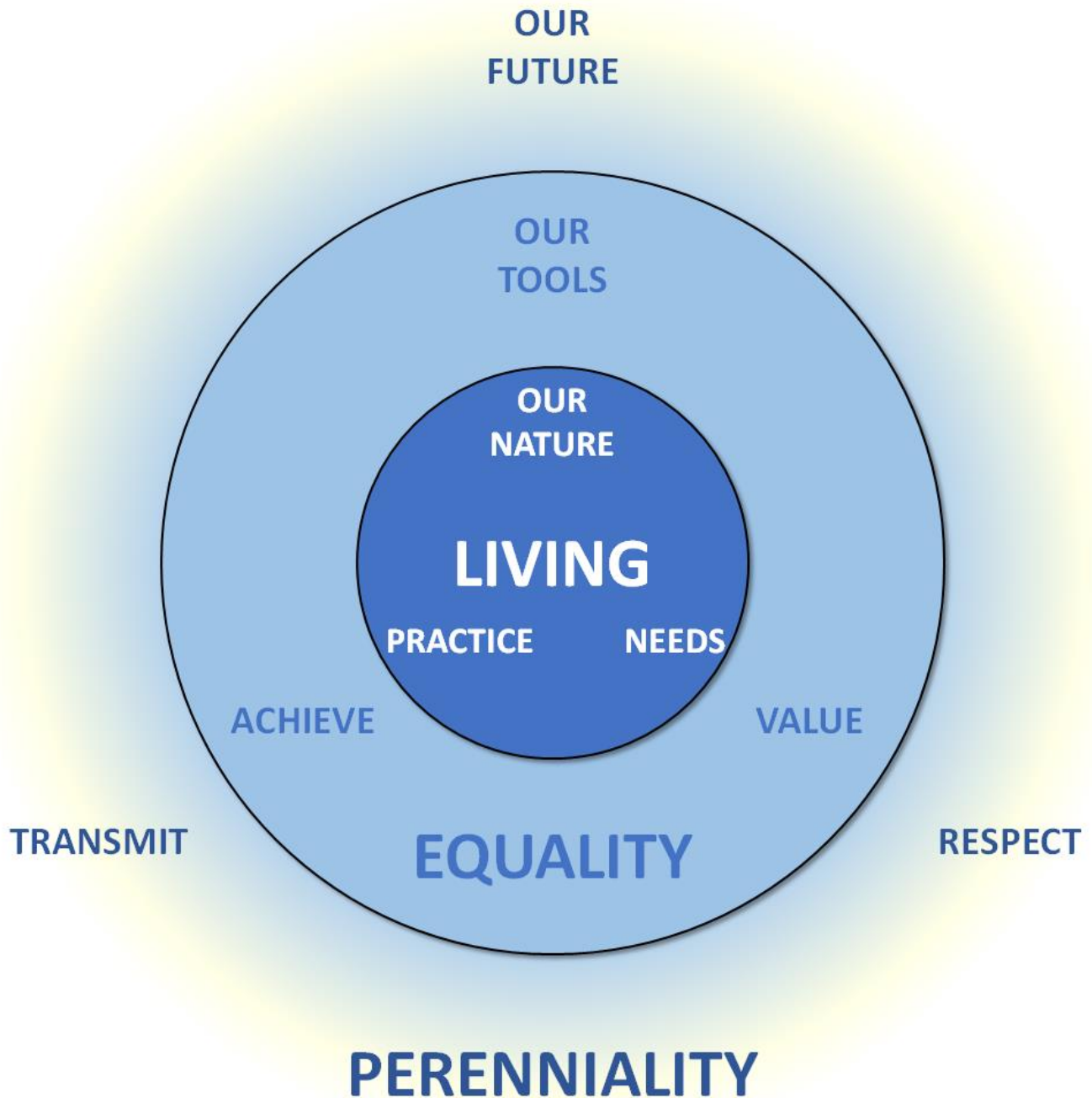
# MEDIUM TERM DIRECTIONS



# LONG TERM DIRECTIONS



## II. PRIORITIES OF EVERY MOMENT



# APPENDIX





## APPENDIX 1 – Detailed “rules of the game”

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## APPENDIX 1.0 – General 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** : SEPARATE ALL COUNTERS according to the NATURE of what they MEASURE.
2. **FINITE BIOSPHERE** : ALL THESE COUNTERS are bounded and their LIMITS shall be clearly identified.
3. **TRANSPARENCY** :
  - **PUBLIC**: DEFINITION OF ALL COUNTERS, THEIR SCALES, LIMITS, AND THEIR OVERALL VALUES, CONTINUOUSLY UPDATED BY THE THREE INSTITUTIONS TO KNOW – TO ACT – TO HAVE.
  - **PRIVATE**: INDIVIDUAL VALUES OF THESE COUNTERS, MANAGED SEPARATELY AND ANONYMOUSLY BY THE TWO TO ACT AND TO HAVE INSTITUTIONS 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

## TO KNOW

## From LOCAL to GLOBAL “IPCC” instance - General recommendations:

1. **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 self-defense).
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.**

The main role of this institution would be to continuously describe the "boundaries of the viability domain" of the given context, that is, their quantitative assessments with their limits in terms of:

- ✓ space use,
- ✓ exploitation of MATTER and ENERGY resources,
- ✓ INTAKE from LIVING,
- ✓ RELEASE into the environment.

And to make this information available to everyone, with summaries scaled from LOCAL to GLOBAL.

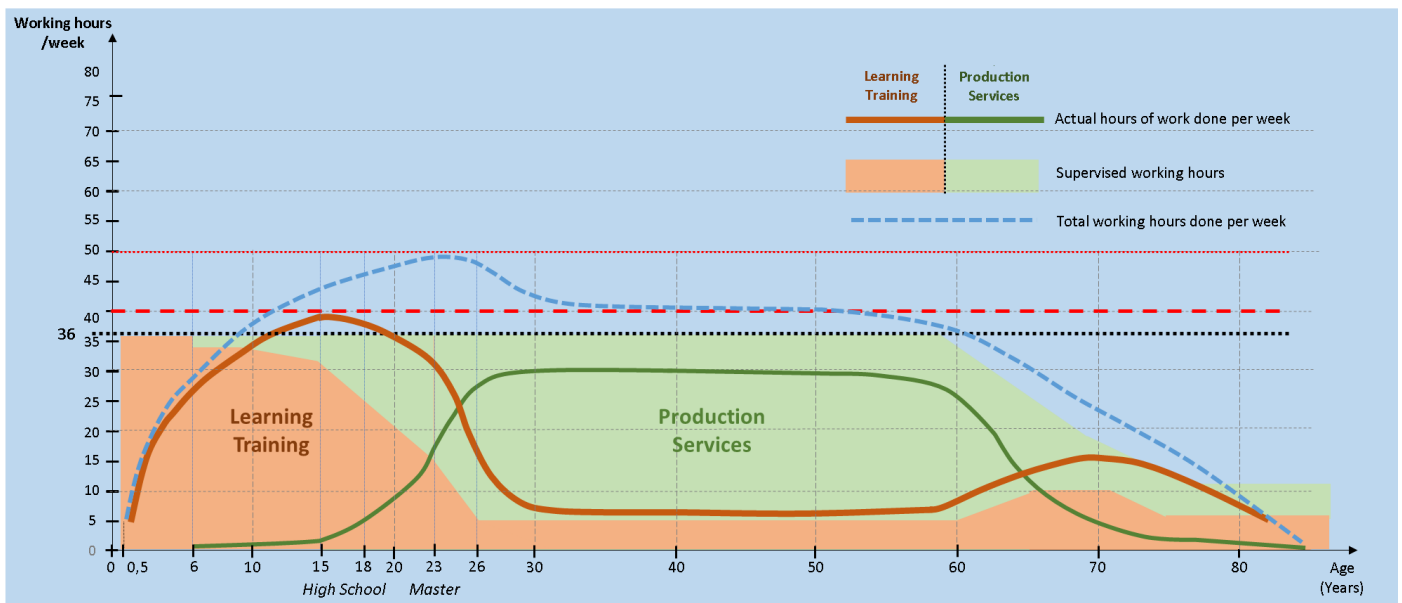
*See page 24 for indicators details.*

## APPENDIX 1.2

## TO ACT

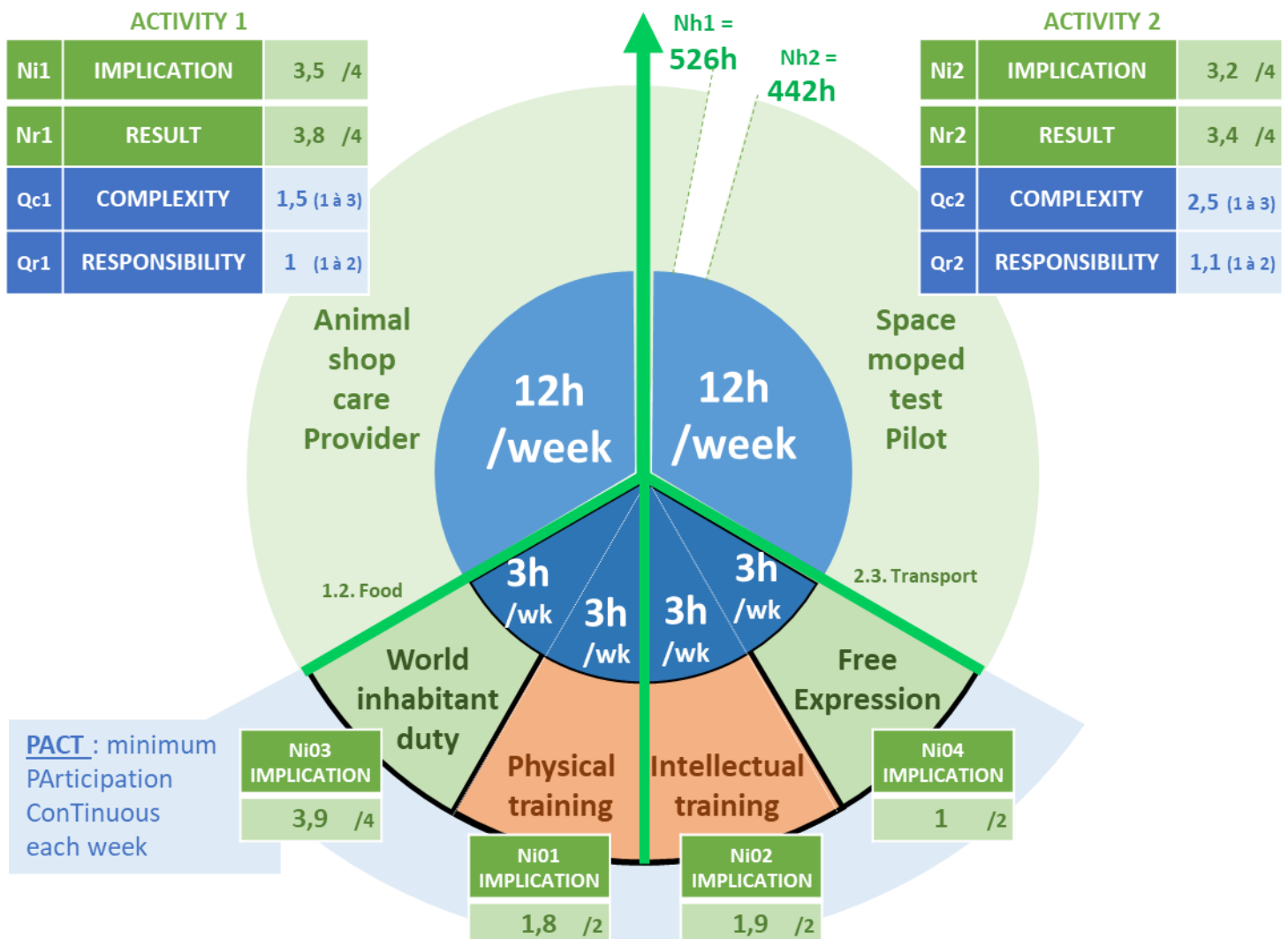
APPENDIX 1.2.1 : ACTION pace (including PACT)

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),
- from 59 years old to 70 years old: 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 “PACT” : PArticipation ConTinuuous

A “PACT” (PArTicipation ConTinuuous), 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, self-defense, 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 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

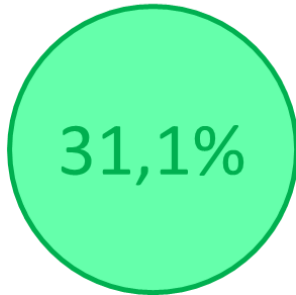
emergence of new concepts, to then propose them for a wider deployment (from local to global) if the interest is confirmed.

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 (Ni0x), 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”).

**APPENDIX 1.2.2 : ACTION assessment - PARTICIPATION**

The scales and evaluation methods of the ACTION would be homogeneous throughout life, applicable from the age of 3 upon entry into school:

## ANNUAL PARTICIPATION (Pa)



$$Pa = Ni01 + Ni02 + Ni03 + Ni04 + \min(Nh1/500 ; 1,05) \cdot Qc1 \cdot Qr1 \cdot (Ni1 + Nr1) + \min(Nh2/500 ; 1,05) \cdot Qc2 \cdot Qr2 \cdot (Ni2 + Nr2)$$

- $\min(Nhi/500 ; 1,05)$  : value extra time up to 25 hours (5%); more extra time is not valued (it is good to do nothing as well).
- Evaluation bounds :  $0 \leq Nx \leq 4$
- Quotients bounds :  $1 \leq Qc \leq 3$  and  $1 \leq Qr \leq 2$   
 $1 \leq Qci \cdot Qri \leq 6 = Q_{MAX}$  = « salary » range  
 If 1500\$/month is the MIN, then 9000\$/month is the MAX

**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 Qc<sub>o</sub>** :

SKILLS ASSESSMENT

BASIC SKILLS AND KNOWLEDGE (maintained in particular by the PACT):

| PHYSICAL TRAINING                                                       |                             |                                                             | INTELLECTUAL TRAINING                                     |                                                    |                                         |
|-------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------|-----------------------------------------|
| MOBILITY<br>Body coordination<br>in SPACE and TIME<br>(including voice) | POWER<br>Strength and Speed | ENDURANCE<br>Duration of exercise<br>at a given POWER level | COMMUNICATION<br>Listening, Language<br>logics, synthesis | PROBLEM SOLVING<br>Mathematics and<br>applications | IMPLEMENTATION<br>Technologies and Arts |
| 2                                                                       | 2.9                         | 1.5                                                         | 1.5                                                       | 2.7                                                | 2.2                                     |

ACQUIRED OPERATIONAL SKILLS:

|          |                              |            |                          |                  |         |     |
|----------|------------------------------|------------|--------------------------|------------------|---------|-----|
| Engineer | Computer<br>program-<br>ming | Veterinary | Technical<br>Maintenance | Music<br>(piano) | Chinese | ... |
| 2.7      | 2                            | 1.5        | 1.5                      | 2                | 1.5     | 2   |

1 ≤ Qc0 < 1.5 – COMMON LEVEL: Minimum general training Middle school (15 years old)

1.5 ≤ Qc0 < 2 – CAPABLE: COMMON LEVEL + 12h/week for 3 years

2 ≤ Qc0 < 2.5 – MASTER: CAPABLE + 12h/week for 3 years

2.5 ≤ Qc0 ≤ 3 – AUTONOMOUS : MASTER + 12h/week for 3 years

Each level is validated by these durations of activity AND the validation by a test of the new acquired skills, the results of these exams giving the assessment of the skill quotient between 1 and 3, with the three thresholds 1.5, 2, and 2.5.

$1 \leq Q_{c0} < 1.5$  – COMMON LEVEL:  
Minimum general training Middle school (15 years old)

$1.5 \leq Q_{c0} < 2$  – CAPABLE: COMMON  
LEVEL + 12h/week for 3 years

$2 \leq Q_{c0} < 2.5$  – MASTER: CAPABLE +  
12h/week for 3 years

$2.5 \leq Q_{c0} \leq 3$  – AUTONOMOUS :  
MASTER + 12h/week for 3 years

Each level is validated by these  
durations of activity AND the  
validation by a test of the new  
acquired skills, the results of these  
exams giving the assessment of the  
skill quotient between 1 and 3, with  
the three thresholds 1.5, 2, and 2.5.

The Skill Level Quotient  $Q_{c0}$  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  $Q_{co-a}$ ,
- The skill level of the person in this same domain  $Q_{co-p}$

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

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

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

- The time slot of the action:
  - $Q_h = 1$  if the action takes place between 8 a.m. and 7 p.m.
  - $Q_h = 1.2$  if the action takes place between 6 a.m. and 8 a.m., or between 7 p.m. and 10 p.m.,
  - $Q_h = 1.5$  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:
  - $Q_{pm} = 1$  if no notable difficulty apart from carrying out the action itself.
  - $Q_{pm} = 1.2$  if slight physical or moral difficulty.
  - $Q_{pm} = 1.5$  if major physical or moral difficulties.
- A disability of the person:
  - $Q_{hp} = 1$  if no handicap to carry out the activity concerned,
  - $Q_{hp} = x$  depending on the impact of the disability on production.

This arduousness coefficient could also be used in inverse 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 ( $Q_h = 1.5$  and  $Q_{pm} = 1.5$ ); 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:

$$Q_c = \frac{1}{2} \cdot (Q_{co-a} + Q_{co-p}) \cdot Q_h \cdot Q_{pm} \cdot Q_{hp}$$

**Qr = Responsibility quotient =  $1 + 0,1 \cdot \text{LOG}_{10}(1+N)$  : 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 :  $Q_r = 1 + 0,1 \cdot \text{LOG}_{10}(1+1) = 1.03$ .

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.

*Among other things, in this organizational scheme, maternity and paternity “leave” would no longer be a leave, but rather the fact of PARTICIPATING in the creation of life, a period of intense ACTION focusing on protection and direct transmission to a newborn, and would therefore be evaluated in the same way in terms of PARTICIPATION, not taking into account, however, the evaluation of the IMPLICATION and the RESULT so as not to be intrusive and create pressure on this period which must be as light as possible for the child and the parents.*

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.

### ANNEXE 1.2.3 : The different domains of ACTION

ACTION would be organized into 5 main domains:

- O. ADMINISTRATION (3 INSTITUTIONS TO KNOW – TO ACT – TO HAVE MANAGEMENT)
- A. PRACTICE Cohabit – Knowledge – Skills
- B. MAKE  
     PRODUCTION of the 10 RESOURCES
- C. (C.1) TRANSMIT – (C.2) RESEARCH  
     => PROTECT Peace and Security

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



- ✓ 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.
- ✓ GOOD = 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 TO KNOW – 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 perennality 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,  $Q_c > 1.5$ , 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,  $Q_c > 2$ , 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,  $Q_c > 2.5$ , 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 oneself in danger and not forgetting oneself 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/molecules 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.

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").

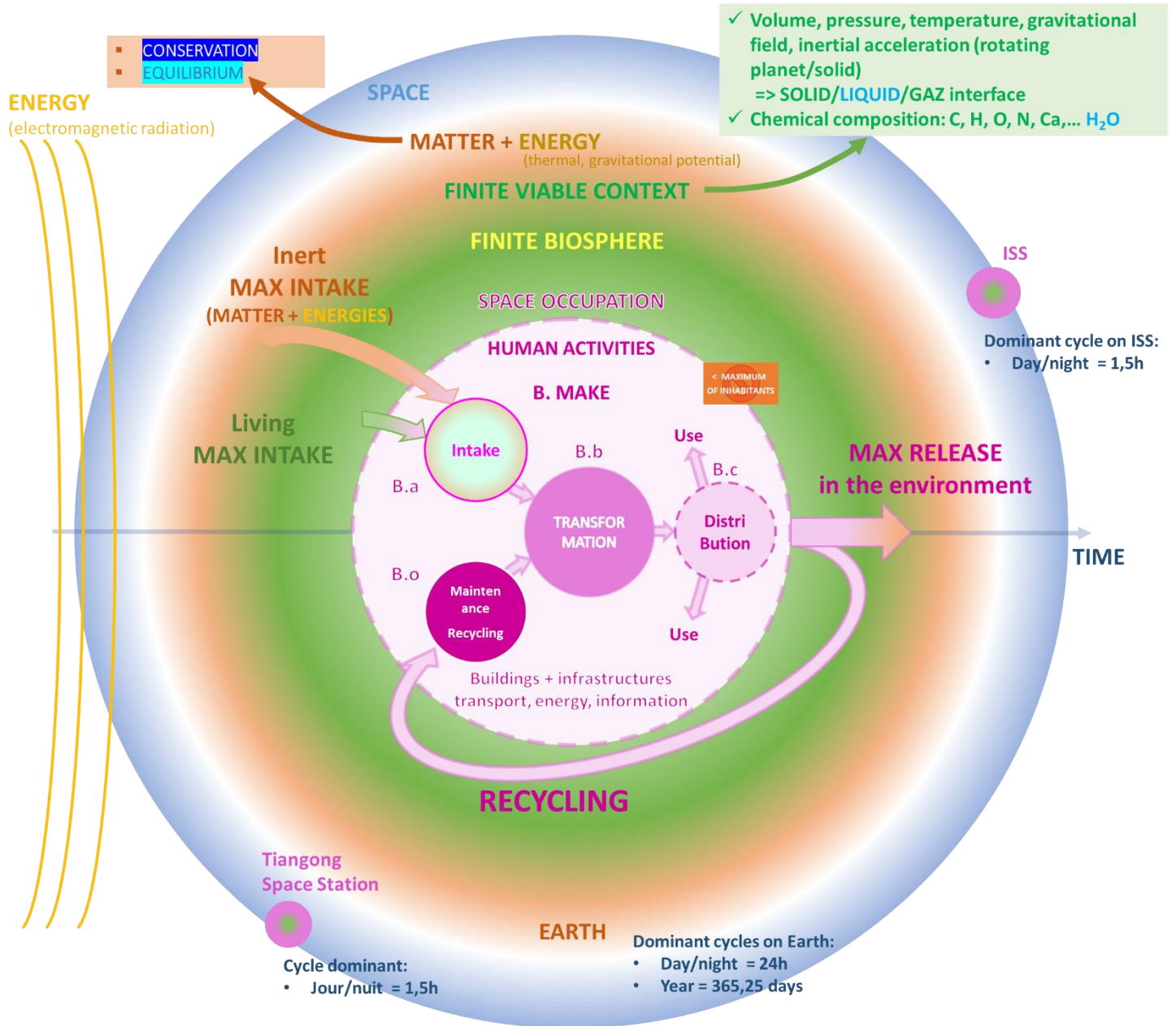
The playful and/or artistic exploitation of these capacities of the body, in groups or individually, with artifacts (balls, rackets, skis, rollerblades, weapons, costumes, musical instruments, etc.) or without, gives rise to all sports, all dances, all music, all combat arts,... of the world. These 3 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"...*





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



✓ **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 STOP instantaneously (= within 24 hours or few days) endangers collective SURVIVAL:

**1.1 WATER / 1.2 FOOD / 1.3 ENERGY**

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 GOODS production.**

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 GOODS.**

✓ **GOODS = RESOURCES** whose **PRODUCTION STOP** does not endanger a healthy population.

The CUMULATIVE PARTICIPATION would give us our GOODS 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 its GOODS, 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 all subjects.
2. Finalize the steps of global automation (“Artificial Intelligence”): language, vision,... *(digital technology "before AI" actually already covered a very large capacity for automation - robots, information processing, even if this technological capacity seemed less to overlap with or directly mimic the capabilities of the human species).*
3. Gain a calculation scale factor of 1000 (?)... in accuracy and speed with quantum computers.
4. Living perennality 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,...

**General remark for academic research:** 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.*

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").



**=> PROTECT**

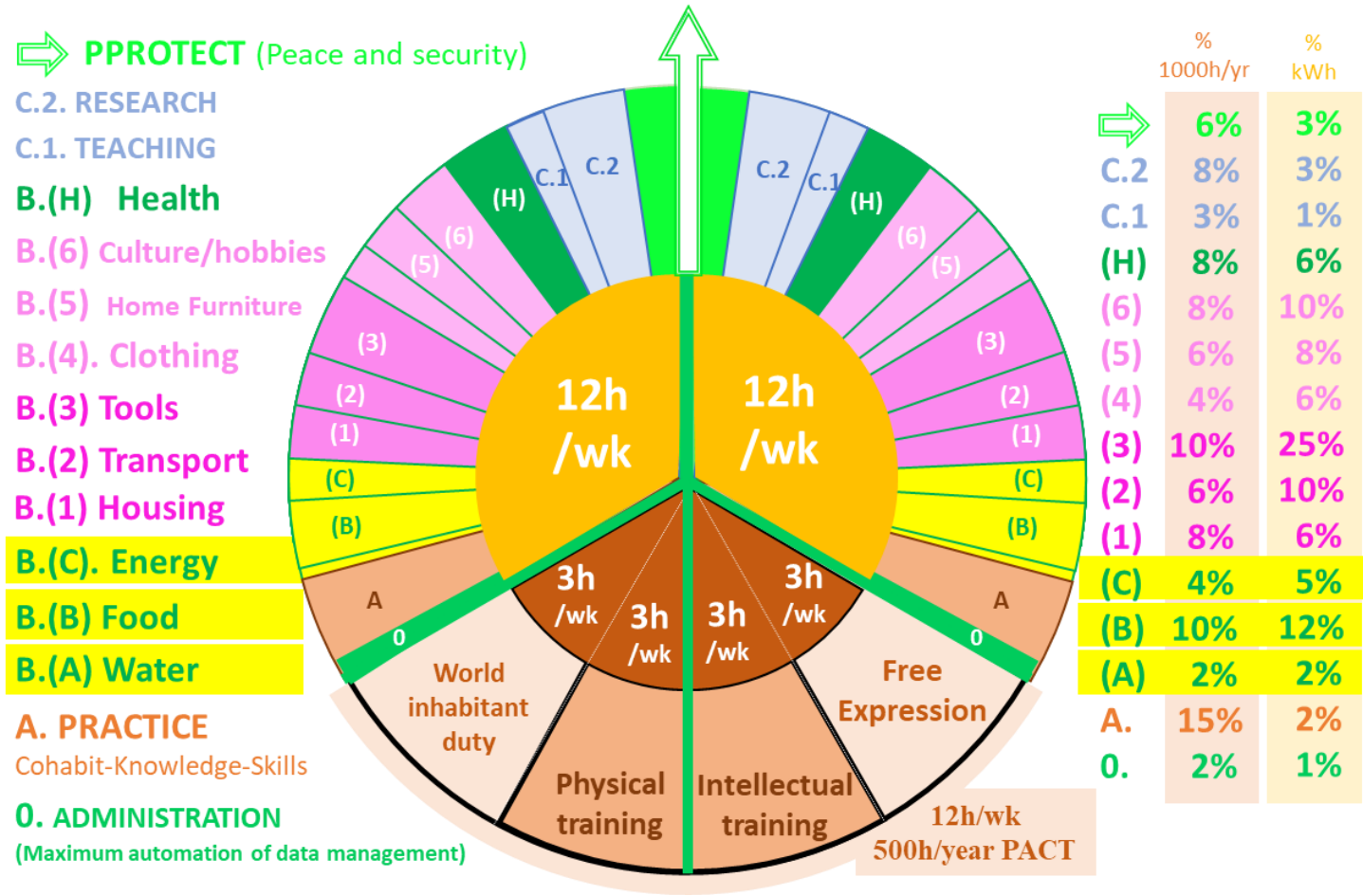
The final area of ACTION would encompass all services ensuring public safety: police, firefighters, military, etc.

Its scope in terms of the number of ACTION hours per year would be determined, based on feedback and experience gained year after year, depending on the specific circumstances of each situation.

**As specified at the beginning of APPENDIX 1.2.3, an "instantaneous" PRIORITIZATION of ACTION could be coordinated by the AGIR institution in the event of a major incident endangering SURVIVAL and requiring a larger-scale effort.**



APPENDIX 1.2.4 : OVERALL ACTION ASSESSMENT



kWh = ENERGY used by machines

## APPENDIX 1.2.5 : ACTION GEO-DEMOGRAPHY

### “Local autonomy everywhere”

| Demographic levels<br>population minimum size*<br>for which a region<br>shall be autonomous<br>for the issues given in the<br>corresponding line |                            | TO ACT                                                                                                                 |                                                                                                                                                        |                                                                         |                                                            |                                                                     |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|----|
|                                                                                                                                                  |                            | Responsibility<br>quotient<br><br>1<= Q <sub>r</sub> <=2<br><br>Q <sub>r</sub> =1+ 0,1*LOG <sub>10</sub> (1+N)<br>(**) | 0. ADMINISTRATION<br><br>Number and renewal of managers<br>representing and coordinating<br>the 3 powers<br>FINITE BIOSPHERE<br>ACTION<br>DISTRIBUTION | A. PRACTICE<br><br>C.1. TRANSMIT<br><br>Cohabit - Knowledge -<br>Skills | B. MAKE                                                    |                                                                     |    |
|                                                                                                                                                  |                            |                                                                                                                        |                                                                                                                                                        |                                                                         | PRIMARY RESOURCES<br>(TIME, SPACE, MATTER, ENERGY, LIVING) |                                                                     |    |
|                                                                                                                                                  |                            |                                                                                                                        |                                                                                                                                                        |                                                                         | B.o Maintenance<br>and recycling                           | B.a Intake from<br>the environment                                  |    |
|                                                                                                                                                  | Inert<br>Extraction        | Living<br>Agriculture                                                                                                  |                                                                                                                                                        |                                                                         |                                                            |                                                                     |    |
| Everybo<br>dy                                                                                                                                    | > 1000<br>people           | 1,3                                                                                                                    | 3 people (500h/year)<br>for 3 years                                                                                                                    | 0-6 years old<br>elementary school                                      | Hand made tools                                            | Shortest path<br><br>Renewable<br><br>Respectful of<br>biodiversity |    |
|                                                                                                                                                  | > 10 000<br>people         | 1,4                                                                                                                    | 3 people (500h/year)<br>for 3 years                                                                                                                    | 6-10 years old<br>Primary school                                        | Bicycles<br>Small eletronic tools                          |                                                                     |    |
|                                                                                                                                                  | > 100 000<br>people        | 1,5                                                                                                                    | 3 people (1000h/year)<br>for 3 years                                                                                                                   | 10-18 years old<br>Middle and High school                               | Home appliances/<br>motorbike                              |                                                                     |    |
|                                                                                                                                                  | > 1000 000<br>people       | 1,6                                                                                                                    | 6 people (1000h/year)<br>for 6 years<br>(renewed by half every 3 years)                                                                                | 18-21 years old<br>Bachelor level University                            | Cars                                                       |                                                                     |    |
|                                                                                                                                                  | > 10 000 000<br>people     | 1,7                                                                                                                    | 6 people (1000h/year)<br>for 6 years<br>(renewed by half every 3 years)                                                                                | > 22 years old<br>Master and PhD Levels<br>University                   | Aircrafts                                                  |                                                                     |    |
|                                                                                                                                                  | > 100 000 000<br>people    | 1,8                                                                                                                    | 6 people (1000h/year)<br>for 6 years<br>(renewed by half every 3 years)                                                                                |                                                                         | Space station                                              |                                                                     |    |
|                                                                                                                                                  | > 1000 000 000<br>people   | 1,9                                                                                                                    | 9 people (1000h/year)<br>for 9 years<br>(renewed by a third every 3 years)                                                                             |                                                                         |                                                            |                                                                     |    |
|                                                                                                                                                  | > 10 000 000 000<br>people | 2                                                                                                                      | 9 people (1000h/year)<br>for 9 years<br>(renewed by a third every 3 years)                                                                             |                                                                         |                                                            |                                                                     |    |
| WORKING TIME TOTAL<br>(% 1000h/year total population)                                                                                            |                            |                                                                                                                        | 2%                                                                                                                                                     | 15% (A) + 3% (C1)                                                       | 12%                                                        | 3%                                                                  | 4% |
| ENSERGY SPENT TOTAL<br>(% 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

(\*\*)  $Q_r = 1 + 0,1 \cdot \log_{10}(1+N)$  = Responsibility quotient: my work, my decisions impact the activities, the environment, the daily lives of how many N people?

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

### APPENDIX 1.2.6 : « 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, but not necessarily, the idea is not to fall into "spying" on our every step.*

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

$$\begin{array}{c}
 \text{HUMAN ENERGY} \\
 \text{(or LIVING energy, if other living beings} \\
 \text{added to the human species contribute to the action)} \\
 + \\
 \text{ENERGY used by machines}
 \end{array}$$

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 of an average adult 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 perform in terms of effort, ENERGY... cf. Jean Marc Jancovici – The world without end - 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

APPENDIX 1.3.1 : NEED – VALUE – RESPECT

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 cost of an object would be the sum 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<sub>(x)</sub> domain expressed in kWh (volumes that would respect upstream planetary limits – RESPECT):

- (A) WATER
- (B) FOOD
- (C) ENERGY
- (1) to (6) GOODS

The populations could then decide for a MINIMUM threshold expressed in kWh in each main area (NEED), each individual “i” would have a right to HAVE above this MINIMUM proportional to their **P<sub>i</sub> Cumulated Participation** (VALUE, or **max(P<sub>aN</sub>, P<sub>i</sub>)** for the WATER/FOOD/ENERGY resources):

$$\text{TO HAVE}_{(x)_i} = \text{MIN}_{(x)} + \text{P}_{Ci} \cdot \Delta\text{PROD}_{(x)}$$

so that the sum of the rights **TO HAVE**<sub>(x)<sub>i</sub></sub> of each individual over the number of inhabitants **H** is equal to the total production **PROD**<sub>(x)</sub>:

$$\text{PROD}_{(x)} = \sum_{i=1:H} \text{TO HAVE}_{(x)_i} = H \cdot \text{MIN}_{(x)} + (\sum_{i=1:H} \text{P}_{Ci}) \cdot \Delta\text{PROD}_{(x)}$$

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 **GOODS** into a single 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 m<sup>2</sup> apartment, thus not exceeding their total right to have, this should be possible (just as we personally manage our monetary counter in 2020 Gregorian calendar).



### APPENDIX 1.3.2 : “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

In addition, to the very synthetic vision of the “dashboard” (page 30) continuously updated and available for all scaled from local (individual) to global (planet), a more detailed individual report could be proposed annually in the form of the NOTICE OF UNIVERSAL PARTICIPATION available in PDF on the [Living Beings Manifesto – www.peacenlive.com](http://www.peacenlive.com) website.

## 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:

|                                                                                       |                    |                |                               |                                                           |                      |                      |                                |                                                     |                                                     |                       |                          |                        |                         |                         |               |
|---------------------------------------------------------------------------------------|--------------------|----------------|-------------------------------|-----------------------------------------------------------|----------------------|----------------------|--------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------|--------------------------|------------------------|-------------------------|-------------------------|---------------|
| Calendars                                                                             |                    |                |                               |                                                           |                      |                      |                                |                                                     |                                                     |                       |                          |                        |                         |                         |               |
|                                                                                       |                    | Days delivered | 21-Dec                        | 01-Jan<br>1st day of the year                             | 21-Jan               | 29-Feb               | 21-Mar                         | 21-May                                              | 21-Jun                                              | July 21, 1969         | 31-Jul                   |                        | 21-Dec                  | 1-Jan                   |               |
| Gregorian                                                                             | Month              | 12 - December  | 01 - January                  | 02 - February<br><small>(leap month - 30/31 days)</small> | 03 - March           | 04 - April           | 05 - May                       | 06 - June                                           | 07 - July                                           | 08 - August           | 09 - September           | 10 - October           | 11 - November           | 12 - December           | 01 - January  |
|                                                                                       | Year               | N-1            |                               | N                                                         |                      |                      |                                |                                                     |                                                     |                       |                          |                        |                         | N+1                     |               |
| Earth                                                                                 | Month              | 08 - December  | 07 - January (30 days)        | 08 - February<br><small>(leap month - 30/31 days)</small> | 09 - March (30 days) | 10 - April (31 days) | 11 - May (30 days)             | 12 - June (31 days)                                 | 01 - July (30 days)                                 | 02 - August (31 days) | 03 - September (30 days) | 04 - October (31 days) | 05 - November (30 days) | 06 - December (31 days) | 08 - February |
| Universal                                                                             | Year               | M              |                               |                                                           |                      |                      |                                |                                                     |                                                     |                       |                          |                        |                         |                         |               |
| Year                                                                                  | = 1969             |                |                               |                                                           |                      |                      |                                |                                                     |                                                     |                       |                          |                        |                         |                         |               |
| 0001                                                                                  | Gregorian calendar | Days added     | 1-Jan<br>Southern<br>Solstice | 21-Feb<br>21-Mar                                          | 21-Apr               | 21-May               | 21-Jun<br>Northern<br>Solstice | 01-Jul<br>Summer<br>solstice<br>1st day of the year | 01-Aug<br>Summer<br>solstice<br>1st day of the year |                       |                          |                        | 1-Jan                   | 13-Jan                  |               |
| Year of terrestrial life first step on another space rock<br>(first step on the Moon) |                    |                |                               |                                                           |                      |                      |                                |                                                     |                                                     |                       |                          |                        |                         |                         |               |

- 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 solstice, 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 Perennality commemorating this date of 21/07/1969 cal. G. = 01/02/0001 cal. U. T.

**CALENDARS**

www.peacenlive.com proposition

| Gregorian |        |                                   |      | Terrestrial Universal |                |      |           |                                   |     |  |
|-----------|--------|-----------------------------------|------|-----------------------|----------------|------|-----------|-----------------------------------|-----|--|
| Days/year | Day    | Month                             | Year | Day                   | Month          | Year | Days/year |                                   |     |  |
| 335       | 1-Dec  | 12<br>December                    | N-1  | 12-Dec                | 06<br>December | M-1  | 164       |                                   |     |  |
| 336       | 2-Dec  |                                   |      | 13-Dec                |                |      | 165       |                                   |     |  |
| 337       | 3-Dec  |                                   |      | 14-Dec                |                |      | 166       |                                   |     |  |
| 338       | 4-Dec  |                                   |      | 15-Dec                |                |      | 167       |                                   |     |  |
| 339       | 5-Dec  |                                   |      | 16-Dec                |                |      | 168       |                                   |     |  |
| 340       | 6-Dec  |                                   |      | 17-Dec                |                |      | 169       |                                   |     |  |
| 341       | 7-Dec  |                                   |      | 18-Dec                |                |      | 170       |                                   |     |  |
| 342       | 8-Dec  |                                   |      | 19-Dec                |                |      | 171       |                                   |     |  |
| 343       | 9-Dec  |                                   |      | 20-Dec                |                |      | 172       |                                   |     |  |
| 344       | 10-Dec |                                   |      | 21-Dec                |                |      | 173       |                                   |     |  |
| 345       | 11-Dec |                                   |      | 22-Dec                |                |      | 174       |                                   |     |  |
| 346       | 12-Dec |                                   |      | 23-Dec                |                |      | 175       |                                   |     |  |
| 347       | 13-Dec |                                   |      | 24-Dec                |                |      | 176       |                                   |     |  |
| 348       | 14-Dec |                                   |      | 25-Dec                |                |      | 177       |                                   |     |  |
| 349       | 15-Dec |                                   |      | 26-Dec                |                |      | 178       |                                   |     |  |
| 350       | 16-Dec |                                   |      | 27-Dec                |                |      | 179       |                                   |     |  |
| 351       | 17-Dec |                                   |      | 28-Dec                |                |      | 180       |                                   |     |  |
| 352       | 18-Dec |                                   |      | 29-Dec                |                |      | 181       |                                   |     |  |
| 353       | 19-Dec |                                   |      | 30-Dec                |                |      | 182       |                                   |     |  |
| 354       | 20-Dec |                                   |      | 31-Dec                |                |      | 183       |                                   |     |  |
| 355       | 21-Dec |                                   |      |                       |                |      | 1-Jan     |                                   | 184 |  |
| 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       | 26-Dec |                                   |      | 6-Jan                 | 189            |      |           |                                   |     |  |
| 361       | 27-Dec |                                   |      | 7-Jan                 | 190            |      |           |                                   |     |  |
| 362       | 28-Dec |                                   |      | 8-Jan                 | 191            |      |           |                                   |     |  |
| 363       | 29-Dec |                                   |      | 9-Jan                 | 192            |      |           |                                   |     |  |
| 364       | 30-Dec |                                   |      | 10-Jan                | 193            |      |           |                                   |     |  |
| 365       | 31-Dec |                                   |      | 11-Jan                | 194            |      |           |                                   |     |  |
| 1         | 1-Jan  | 01<br>January                     | N    | 12-Jan                | 07<br>January  |      | 195       |                                   |     |  |
| 2         | 2-Jan  |                                   |      | 13-Jan                |                |      | 196       |                                   |     |  |
| 3         | 3-Jan  |                                   |      | 14-Jan                |                |      | 197       |                                   |     |  |
| 4         | 4-Jan  |                                   |      | 15-Jan                |                |      | 198       |                                   |     |  |
| 5         | 5-Jan  |                                   |      | 16-Jan                |                |      | 199       |                                   |     |  |
| 6         | 6-Jan  |                                   |      | 17-Jan                |                |      | 200       |                                   |     |  |
| 7         | 7-Jan  |                                   |      | 18-Jan                |                |      | 201       |                                   |     |  |
| 8         | 8-Jan  |                                   |      | 19-Jan                |                |      | 202       |                                   |     |  |
| 9         | 9-Jan  |                                   |      | 20-Jan                |                |      | 203       |                                   |     |  |
| 10        | 10-Jan |                                   |      | 21-Jan                |                |      | 204       |                                   |     |  |
| 11        | 11-Jan |                                   |      | 22-Jan                |                |      | 205       |                                   |     |  |
| 12        | 12-Jan |                                   |      | 23-Jan                |                |      | 206       |                                   |     |  |
| 13        | 13-Jan |                                   |      | 24-Jan                |                |      | 207       |                                   |     |  |
| 14        | 14-Jan |                                   |      | 25-Jan                |                |      | 208       |                                   |     |  |
| 15        | 15-Jan |                                   |      | 26-Jan                |                |      | 209       |                                   |     |  |
| 16        | 16-Jan |                                   |      | 27-Jan                |                |      | 210       |                                   |     |  |
| 17        | 17-Jan |                                   |      | 28-Jan                |                |      | 211       |                                   |     |  |
| 18        | 18-Jan |                                   |      | 29-Jan                |                |      | 212       |                                   |     |  |
| 19        | 19-Jan |                                   |      | 30-Jan                |                |      | 213       |                                   |     |  |
| 20        | 20-Jan |                                   |      |                       |                |      | 1-Feb     | 08<br>February<br>(Leap<br>month) | 214 |  |
| 21        | 21-Jan |                                   |      |                       |                |      | 2-Feb     |                                   | 215 |  |
| 22        | 22-Jan |                                   |      | 3-Feb                 | 216            |      |           |                                   |     |  |
| 23        | 23-Jan |                                   |      | 4-Feb                 | 217            |      |           |                                   |     |  |
| 24        | 24-Jan |                                   |      | 5-Feb                 | 218            |      |           |                                   |     |  |
| 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        | 29-Jan |                                   |      | 10-Feb                | 223            |      |           |                                   |     |  |
| 30        | 30-Jan |                                   |      | 11-Feb                | 224            |      |           |                                   |     |  |
| 31        | 31-Jan |                                   |      | 12-Feb                | 225            |      |           |                                   |     |  |
| 32        | 1-Feb  | 02<br>February<br>(Leap<br>month) |      | 13-Feb                | 226            |      |           |                                   |     |  |
| 33        | 2-Feb  |                                   |      | 14-Feb                | 227            |      |           |                                   |     |  |
| 34        | 3-Feb  |                                   |      | 15-Feb                | 228            |      |           |                                   |     |  |
| 35        | 4-Feb  |                                   |      | 16-Feb                | 229            |      |           |                                   |     |  |
| 36        | 5-Feb  |                                   |      | 17-Feb                | 230            |      |           |                                   |     |  |
| 37        | 6-Feb  |                                   |      | 18-Feb                | 231            |      |           |                                   |     |  |
| 38        | 7-Feb  |                                   |      | 19-Feb                | 232            |      |           |                                   |     |  |
| 39        | 8-Feb  |                                   |      | 20-Feb                | 233            |      |           |                                   |     |  |
| 40        | 9-Feb  |                                   |      | 21-Feb                | 234            |      |           |                                   |     |  |
| 41        | 10-Feb |                                   |      | 22-Feb                | 235            |      |           |                                   |     |  |
| 42        | 11-Feb |                                   |      | 23-Feb                | 236            |      |           |                                   |     |  |
| 43        | 12-Feb |                                   |      | 24-Feb                | 237            |      |           |                                   |     |  |
| 44        | 13-Feb |                                   |      | 25-Feb                | 238            |      |           |                                   |     |  |
| 45        | 14-Feb |                                   |      | 26-Feb                | 239            |      |           |                                   |     |  |

|     |        |             |     |         |     |  |     |
|-----|--------|-------------|-----|---------|-----|--|-----|
| 46  | 15-Feb |             |     | 27-Feb  |     |  | 240 |
| 47  | 16-Feb |             |     | 28-Feb  |     |  | 241 |
| 48  | 17-Feb |             |     | 29-Feb  |     |  | 242 |
| 49  | 18-Feb |             |     | 30-févr |     |  | 243 |
| 50  | 19-Feb |             |     | 31-févr |     |  | 244 |
| 51  | 20-Feb |             |     | 1-Mar   |     |  | 245 |
| 52  | 21-Feb |             |     | 2-Mar   |     |  | 246 |
| 53  | 22-Feb |             |     | 3-Mar   |     |  | 247 |
| 54  | 23-Feb |             |     | 4-Mar   |     |  | 248 |
| 55  | 24-Feb |             |     | 5-Mar   |     |  | 249 |
| 56  | 25-Feb | 09<br>March |     | 6-Mar   | 250 |  |     |
| 57  | 26-Feb |             |     | 7-Mar   | 251 |  |     |
| 58  | 27-Feb |             |     | 8-Mar   | 252 |  |     |
| 59  | 28-Feb |             |     | 9-Mar   | 253 |  |     |
| 60  | 29-Feb |             |     | 10-Mar  | 254 |  |     |
| 61  | 1-Mar  |             |     | 11-Mar  | 255 |  |     |
| 62  | 2-Mar  |             |     | 12-Mar  | 256 |  |     |
| 63  | 3-Mar  |             |     | 13-Mar  | 257 |  |     |
| 64  | 4-Mar  |             |     | 14-Mar  | 258 |  |     |
| 65  | 5-Mar  |             |     | 15-Mar  | 259 |  |     |
| 66  | 6-Mar  | 03<br>March |     | 16-Mar  | 260 |  |     |
| 67  | 7-Mar  |             |     | 17-Mar  | 261 |  |     |
| 68  | 8-Mar  |             |     | 18-Mar  | 262 |  |     |
| 69  | 9-Mar  |             |     | 19-Mar  | 263 |  |     |
| 70  | 10-Mar |             |     | 20-Mar  | 264 |  |     |
| 71  | 11-Mar |             |     | 21-Mar  | 265 |  |     |
| 72  | 12-Mar |             |     | 22-Mar  | 266 |  |     |
| 73  | 13-Mar |             |     | 23-Mar  | 267 |  |     |
| 74  | 14-Mar |             |     | 24-Mar  | 268 |  |     |
| 75  | 15-Mar |             |     | 25-Mar  | 269 |  |     |
| 76  | 16-Mar | 10<br>April |     | 26-Mar  | 270 |  |     |
| 77  | 17-Mar |             |     | 27-Mar  | 271 |  |     |
| 78  | 18-Mar |             |     | 28-Mar  | 272 |  |     |
| 79  | 19-Mar |             |     | 29-Mar  | 273 |  |     |
| 80  | 20-Mar |             |     | 30-Mar  | 274 |  |     |
| 81  | 21-Mar |             |     | 1-Apr   | 275 |  |     |
| 82  | 22-Mar |             |     | 2-Apr   | 276 |  |     |
| 83  | 23-Mar |             |     | 3-Apr   | 277 |  |     |
| 84  | 24-Mar |             |     | 4-Apr   | 278 |  |     |
| 85  | 25-Mar |             |     | 5-Apr   | 279 |  |     |
| 86  | 26-Mar | 04<br>April |     | 6-Apr   | 280 |  |     |
| 87  | 27-Mar |             |     | 7-Apr   | 281 |  |     |
| 88  | 28-Mar |             |     | 8-Apr   | 282 |  |     |
| 89  | 29-Mar |             |     | 9-Apr   | 283 |  |     |
| 90  | 30-Mar |             |     | 10-Apr  | 284 |  |     |
| 91  | 31-Mar |             |     | 11-Apr  | 285 |  |     |
| 92  | 1-Apr  |             |     | 12-Apr  | 286 |  |     |
| 93  | 2-Apr  |             |     | 13-Apr  | 287 |  |     |
| 94  | 3-Apr  |             |     | 14-Apr  | 288 |  |     |
| 95  | 4-Apr  |             |     | 15-Apr  | 289 |  |     |
| 96  | 5-Apr  | 11<br>May   |     | 16-Apr  | 290 |  |     |
| 97  | 6-Apr  |             |     | 17-Apr  | 291 |  |     |
| 98  | 7-Apr  |             |     | 18-Apr  | 292 |  |     |
| 99  | 8-Apr  |             |     | 19-Apr  | 293 |  |     |
| 100 | 9-Apr  |             |     | 20-Apr  | 294 |  |     |
| 101 | 10-Apr |             |     | 21-Apr  | 295 |  |     |
| 102 | 11-Apr |             |     | 22-Apr  | 296 |  |     |
| 103 | 12-Apr |             |     | 23-Apr  | 297 |  |     |
| 104 | 13-Apr |             |     | 24-Apr  | 298 |  |     |
| 105 | 14-Apr |             |     | 25-Apr  | 299 |  |     |
| 106 | 15-Apr | 05<br>May   |     | 26-Apr  | 300 |  |     |
| 107 | 16-Apr |             |     | 27-Apr  | 301 |  |     |
| 108 | 17-Apr |             |     | 28-Apr  | 302 |  |     |
| 109 | 18-Apr |             |     | 29-Apr  | 303 |  |     |
| 110 | 19-Apr |             |     | 30-Apr  | 304 |  |     |
| 111 | 20-Apr |             |     | 31-avri | 305 |  |     |
| 112 | 21-Apr |             |     | 1-May   | 306 |  |     |
| 113 | 22-Apr |             |     | 2-May   | 307 |  |     |
| 114 | 23-Apr |             |     | 3-May   | 308 |  |     |
| 115 | 24-Apr |             |     | 4-May   | 309 |  |     |
| 116 | 25-Apr |             |     | 5-May   | 310 |  |     |
| 117 | 26-Apr |             |     | 6-May   | 311 |  |     |
| 118 | 27-Apr |             |     | 7-May   | 312 |  |     |
| 119 | 28-Apr |             |     | 8-May   | 313 |  |     |
| 120 | 29-Apr |             |     | 9-May   | 314 |  |     |
| 121 | 30-Apr |             |     | 10-May  | 315 |  |     |
| 122 | 1-May  |             |     | 11-May  | 316 |  |     |
| 123 | 2-May  |             |     | 12-May  | 317 |  |     |
| 124 | 3-May  |             |     | 13-May  | 318 |  |     |
| 125 | 4-May  |             |     | 14-May  | 319 |  |     |
| 126 | 5-May  | 15-May      | 320 |         |     |  |     |
| 127 | 6-May  | 16-May      | 321 |         |     |  |     |
| 128 | 7-May  | 17-May      | 322 |         |     |  |     |
| 129 | 8-May  | 18-May      | 323 |         |     |  |     |
| 130 | 9-May  | 19-May      | 324 |         |     |  |     |
| 131 | 10-May | 20-May      | 325 |         |     |  |     |
| 132 | 11-May | 21-May      | 326 |         |     |  |     |

|     |        |        |   |        |            |  |     |
|-----|--------|--------|---|--------|------------|--|-----|
| 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  | 12<br>June |  | 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 |   | 349    |            |  |     |
| 156 | 4-Jun  | 15-Jun |   | 350    |            |  |     |
| 157 | 5-Jun  | 16-Jun |   | 351    |            |  |     |
| 158 | 6-Jun  | 17-Jun |   | 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 | 11-Jun | 22-Jun |   | 357    |            |  |     |
| 164 | 12-Jun | 23-Jun |   | 358    |            |  |     |
| 165 | 13-Jun | 24-Jun |   | 359    |            |  |     |
| 166 | 14-Jun | 25-Jun |   | 360    |            |  |     |
| 167 | 15-Jun | 26-Jun |   | 361    |            |  |     |
| 168 | 16-Jun | 27-Jun |   | 362    |            |  |     |
| 169 | 17-Jun | 28-Jun |   | 363    |            |  |     |
| 170 | 18-Jun | 29-Jun |   | 364    |            |  |     |
| 171 | 19-Jun | 30-Jun |   | 365    |            |  |     |
| 172 | 20-Jun | 31-Jun |   | 366    |            |  |     |
| 173 | 21-Jun | 1-Jul  |   | M      | 1          |  |     |
| 174 | 22-Jun | 2-Jul  |   |        | 2          |  |     |
| 175 | 23-Jun | 3-Jul  |   |        | 3          |  |     |
| 176 | 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          |  |     |
| 181 | 29-Jun | 9-Jul  |   |        | 9          |  |     |
| 182 | 30-Jun | 10-Jul |   |        | 10         |  |     |
| 183 | 1-Jul  | 11-Jul |   |        | 11         |  |     |
| 184 | 2-Jul  | 12-Jul |   |        | 12         |  |     |
| 185 | 3-Jul  | 13-Jul |   |        | 13         |  |     |
| 186 | 4-Jul  | 14-Jul |   |        | 14         |  |     |
| 187 | 5-Jul  | 15-Jul |   |        | 15         |  |     |
| 188 | 6-Jul  | 16-Jul |   |        | 16         |  |     |
| 189 | 7-Jul  | 17-Jul |   |        | 17         |  |     |
| 190 | 8-Jul  | 18-Jul |   |        | 18         |  |     |
| 191 | 9-Jul  | 19-Jul |   |        | 19         |  |     |
| 192 | 10-Jul | 20-Jul |   |        | 20         |  |     |
| 193 | 11-Jul | 21-Jul |   |        | 21         |  |     |
| 194 | 12-Jul | 22-Jul |   |        | 22         |  |     |
| 195 | 13-Jul | 23-Jul |   |        | 23         |  |     |
| 196 | 14-Jul | 24-Jul |   |        | 24         |  |     |
| 197 | 15-Jul | 25-Jul |   |        | 25         |  |     |
| 198 | 16-Jul | 26-Jul |   |        | 26         |  |     |
| 199 | 17-Jul | 27-Jul |   |        | 27         |  |     |
| 200 | 18-Jul | 28-Jul |   |        | 28         |  |     |
| 201 | 19-Jul | 29-Jul |   |        | 29         |  |     |
| 202 | 20-Jul | 30-Jul |   |        | 30         |  |     |
| 203 | 21-Jul | 1-Aug  | N | M      | 31         |  |     |
| 204 | 22-Jul | 2-Aug  |   |        | 32         |  |     |
| 205 | 23-Jul | 3-Aug  |   |        | 33         |  |     |
| 206 | 24-Jul | 4-Aug  |   |        | 34         |  |     |
| 207 | 25-Jul | 5-Aug  |   |        | 35         |  |     |
| 208 | 26-Jul | 6-Aug  |   |        | 36         |  |     |
| 209 | 27-Jul | 7-Aug  |   |        | 37         |  |     |
| 210 | 28-Jul | 8-Aug  |   |        | 38         |  |     |
| 211 | 29-Jul | 9-Aug  |   |        | 39         |  |     |
| 212 | 30-Jul | 10-Aug |   |        | 40         |  |     |
| 213 | 31-Jul | 11-Aug |   |        | 41         |  |     |
| 214 | 1-Aug  | 12-Aug |   |        | 42         |  |     |
| 215 | 2-Aug  | 13-Aug |   |        | 43         |  |     |
| 216 | 3-Aug  | 14-Aug |   |        | 44         |  |     |
| 217 | 4-Aug  | 15-Aug |   |        | 45         |  |     |
| 218 | 5-Aug  | 16-Aug |   |        | 46         |  |     |
| 219 | 6-Aug  | 17-Aug |   |        | 47         |  |     |
| 220 | 7-Aug  | 18-Aug |   |        | 48         |  |     |

|     |        |        |     |        |  |  |    |
|-----|--------|--------|-----|--------|--|--|----|
| 221 | 8-Aug  |        |     | 19-Aug |  |  | 49 |
| 222 | 9-Aug  |        |     | 20-Aug |  |  | 50 |
| 223 | 10-Aug |        |     | 21-Aug |  |  | 51 |
| 224 | 11-Aug |        |     | 22-Aug |  |  | 52 |
| 225 | 12-Aug |        |     | 23-Aug |  |  | 53 |
| 226 | 13-Aug |        |     | 24-Aug |  |  | 54 |
| 227 | 14-Aug |        |     | 25-Aug |  |  | 55 |
| 228 | 15-Aug |        |     | 26-Aug |  |  | 56 |
| 229 | 16-Aug |        |     | 27-Aug |  |  | 57 |
| 230 | 17-Aug |        |     | 28-Aug |  |  | 58 |
| 231 | 18-Aug |        |     | 29-Aug |  |  | 59 |
| 232 | 19-Aug |        |     | 30-Aug |  |  | 60 |
| 233 | 20-Aug |        |     | 31-Aug |  |  | 61 |
| 234 | 21-Aug |        |     | 1-Sep  |  |  | 62 |
| 235 | 22-Aug |        |     | 2-Sep  |  |  | 63 |
| 236 | 23-Aug |        |     | 3-Sep  |  |  | 64 |
| 237 | 24-Aug |        |     | 4-Sep  |  |  | 65 |
| 238 | 25-Aug |        |     | 5-Sep  |  |  | 66 |
| 239 | 26-Aug |        |     | 6-Sep  |  |  | 67 |
| 240 | 27-Aug |        |     | 7-Sep  |  |  | 68 |
| 241 | 28-Aug |        |     | 8-Sep  |  |  | 69 |
| 242 | 29-Aug |        |     | 9-Sep  |  |  | 70 |
| 243 | 30-Aug |        |     | 10-Sep |  |  | 71 |
| 244 | 31-Aug |        |     | 11-Sep |  |  | 72 |
| 245 | 1-Sep  |        |     | 12-Sep |  |  | 73 |
| 246 | 2-Sep  |        |     | 13-Sep |  |  | 74 |
| 247 | 3-Sep  |        |     | 14-Sep |  |  | 75 |
| 248 | 4-Sep  |        |     | 15-Sep |  |  | 76 |
| 249 | 5-Sep  |        |     | 16-Sep |  |  | 77 |
| 250 | 6-Sep  |        |     | 17-Sep |  |  | 78 |
| 251 | 7-Sep  |        |     | 18-Sep |  |  | 79 |
| 252 | 8-Sep  | 19-Sep | 80  |        |  |  |    |
| 253 | 9-Sep  | 20-Sep | 81  |        |  |  |    |
| 254 | 10-Sep | 21-Sep | 82  |        |  |  |    |
| 255 | 11-Sep | 22-Sep | 83  |        |  |  |    |
| 256 | 12-Sep | 23-Sep | 84  |        |  |  |    |
| 257 | 13-Sep | 24-Sep | 85  |        |  |  |    |
| 258 | 14-Sep | 25-Sep | 86  |        |  |  |    |
| 259 | 15-Sep | 26-Sep | 87  |        |  |  |    |
| 260 | 16-Sep | 27-Sep | 88  |        |  |  |    |
| 261 | 17-Sep | 28-Sep | 89  |        |  |  |    |
| 262 | 18-Sep | 29-Sep | 90  |        |  |  |    |
| 263 | 19-Sep | 30-Sep | 91  |        |  |  |    |
| 264 | 20-Sep | 1-Oct  | 92  |        |  |  |    |
| 265 | 21-Sep | 2-Oct  | 93  |        |  |  |    |
| 266 | 22-Sep | 3-Oct  | 94  |        |  |  |    |
| 267 | 23-Sep | 4-Oct  | 95  |        |  |  |    |
| 268 | 24-Sep | 5-Oct  | 96  |        |  |  |    |
| 269 | 25-Sep | 6-Oct  | 97  |        |  |  |    |
| 270 | 26-Sep | 7-Oct  | 98  |        |  |  |    |
| 271 | 27-Sep | 8-Oct  | 99  |        |  |  |    |
| 272 | 28-Sep | 9-Oct  | 100 |        |  |  |    |
| 273 | 29-Sep | 10-Oct | 101 |        |  |  |    |
| 274 | 30-Sep | 11-Oct | 102 |        |  |  |    |
| 275 | 1-Oct  | 12-Oct | 103 |        |  |  |    |
| 276 | 2-Oct  | 13-Oct | 104 |        |  |  |    |
| 277 | 3-Oct  | 14-Oct | 105 |        |  |  |    |
| 278 | 4-Oct  | 15-Oct | 106 |        |  |  |    |
| 279 | 5-Oct  | 16-Oct | 107 |        |  |  |    |
| 280 | 6-Oct  | 17-Oct | 108 |        |  |  |    |
| 281 | 7-Oct  | 18-Oct | 109 |        |  |  |    |
| 282 | 8-Oct  | 19-Oct | 110 |        |  |  |    |
| 283 | 9-Oct  | 20-Oct | 111 |        |  |  |    |
| 284 | 10-Oct | 21-Oct | 112 |        |  |  |    |
| 285 | 11-Oct | 22-Oct | 113 |        |  |  |    |
| 286 | 12-Oct | 23-Oct | 114 |        |  |  |    |
| 287 | 13-Oct | 24-Oct | 115 |        |  |  |    |
| 288 | 14-Oct | 25-Oct | 116 |        |  |  |    |
| 289 | 15-Oct | 26-Oct | 117 |        |  |  |    |
| 290 | 16-Oct | 27-Oct | 118 |        |  |  |    |
| 291 | 17-Oct | 28-Oct | 119 |        |  |  |    |
| 292 | 18-Oct | 29-Oct | 120 |        |  |  |    |
| 293 | 19-Oct | 30-Oct | 121 |        |  |  |    |
| 294 | 20-Oct | 31-Oct | 122 |        |  |  |    |
| 295 | 21-Oct | 1-Nov  | 123 |        |  |  |    |
| 296 | 22-Oct | 2-Nov  | 124 |        |  |  |    |
| 297 | 23-Oct | 3-Nov  | 125 |        |  |  |    |
| 298 | 24-Oct | 4-Nov  | 126 |        |  |  |    |
| 299 | 25-Oct | 5-Nov  | 127 |        |  |  |    |
| 300 | 26-Oct | 6-Nov  | 128 |        |  |  |    |
| 301 | 27-Oct | 7-Nov  | 129 |        |  |  |    |
| 302 | 28-Oct | 8-Nov  | 130 |        |  |  |    |
| 303 | 29-Oct | 9-Nov  | 131 |        |  |  |    |
| 304 | 30-Oct | 10-Nov | 132 |        |  |  |    |
| 305 | 31-Oct | 11-Nov | 133 |        |  |  |    |
| 306 | 1-Nov  | 12-Nov | 134 |        |  |  |    |
| 307 | 2-Nov  | 13-Nov | 135 |        |  |  |    |
| 308 | 3-Nov  | 14-Nov | 136 |        |  |  |    |
| 309 | 4-Nov  | 15-Nov | 137 |        |  |  |    |

|     |        |                |     |        |  |     |
|-----|--------|----------------|-----|--------|--|-----|
| 310 | 5-Nov  | 11<br>November | N   | 16-Nov |  | 138 |
| 311 | 6-Nov  |                |     | 17-Nov |  | 139 |
| 312 | 7-Nov  |                |     | 18-Nov |  | 140 |
| 313 | 8-Nov  |                |     | 19-Nov |  | 141 |
| 314 | 9-Nov  |                |     | 20-Nov |  | 142 |
| 315 | 10-Nov |                |     | 21-Nov |  | 143 |
| 316 | 11-Nov |                |     | 22-Nov |  | 144 |
| 317 | 12-Nov |                |     | 23-Nov |  | 145 |
| 318 | 13-Nov |                |     | 24-Nov |  | 146 |
| 319 | 14-Nov |                |     | 25-Nov |  | 147 |
| 320 | 15-Nov |                |     | 26-Nov |  | 148 |
| 321 | 16-Nov | 27-Nov         |     | 149    |  |     |
| 322 | 17-Nov | 28-Nov         |     | 150    |  |     |
| 323 | 18-Nov | 29-Nov         |     | 151    |  |     |
| 324 | 19-Nov | 30-Nov         |     | 152    |  |     |
| 325 | 20-Nov | 1-Dec          |     | 153    |  |     |
| 326 | 21-Nov | 2-Dec          |     | 154    |  |     |
| 327 | 22-Nov | 3-Dec          |     | 155    |  |     |
| 328 | 23-Nov | 4-Dec          |     | 156    |  |     |
| 329 | 24-Nov | 5-Dec          |     | 157    |  |     |
| 330 | 25-Nov | 6-Dec          |     | 158    |  |     |
| 331 | 26-Nov | 7-Dec          |     | 159    |  |     |
| 332 | 27-Nov | 8-Dec          |     | 160    |  |     |
| 333 | 28-Nov | 9-Dec          |     | 161    |  |     |
| 334 | 29-Nov | 10-Dec         |     | 162    |  |     |
| 335 | 30-Nov | 11-Dec         |     | 163    |  |     |
| 336 | 1-Dec  | 12-Dec         |     | 164    |  |     |
| 337 | 2-Dec  | 13-Dec         |     | 165    |  |     |
| 338 | 3-Dec  | 14-Dec         |     | 166    |  |     |
| 339 | 4-Dec  | 15-Dec         |     | 167    |  |     |
| 340 | 5-Dec  | 16-Dec         |     | 168    |  |     |
| 341 | 6-Dec  | 17-Dec         |     | 169    |  |     |
| 342 | 7-Dec  | 18-Dec         |     | 170    |  |     |
| 343 | 8-Dec  | 19-Dec         | 171 |        |  |     |
| 344 | 9-Dec  | 20-Dec         | 172 |        |  |     |
| 345 | 10-Dec | 21-Dec         | 173 |        |  |     |
| 346 | 11-Dec | 22-Dec         | 174 |        |  |     |
| 347 | 12-Dec | 23-Dec         | 175 |        |  |     |
| 348 | 13-Dec | 24-Dec         | 176 |        |  |     |
| 349 | 14-Dec | 25-Dec         | 177 |        |  |     |
| 350 | 15-Dec | 26-Dec         | 178 |        |  |     |
| 351 | 16-Dec | 27-Dec         | 179 |        |  |     |
| 352 | 17-Dec | 28-Dec         | 180 |        |  |     |
| 353 | 18-Dec | 29-Dec         | 181 |        |  |     |
| 354 | 19-Dec | 30-Dec         | 182 |        |  |     |
| 355 | 20-Dec | 31-Dec         | 183 |        |  |     |
| 356 | 21-Dec | 1-Jan          | 184 |        |  |     |
| 357 | 22-Dec | 2-Jan          | 185 |        |  |     |
| 358 | 23-Dec | 3-Jan          | 186 |        |  |     |
| 359 | 24-Dec | 4-Jan          | 187 |        |  |     |
| 360 | 25-Dec | 5-Jan          | 188 |        |  |     |
| 361 | 26-Dec | 6-Jan          | 189 |        |  |     |
| 362 | 27-Dec | 7-Jan          | 190 |        |  |     |
| 363 | 28-Dec | 8-Jan          | 191 |        |  |     |
| 364 | 29-Dec | 9-Jan          | 192 |        |  |     |
| 365 | 30-Dec | 10-Jan         | 193 |        |  |     |
| 366 | 31-Dec | 11-Jan         | 194 |        |  |     |
| 1   | 1-Jan  | 12-Jan         | 195 |        |  |     |
| 2   | 2-Jan  | 13-Jan         | 196 |        |  |     |
| 3   | 3-Jan  | 14-Jan         | 197 |        |  |     |
| 4   | 4-Jan  | 15-Jan         | 198 |        |  |     |
| 5   | 5-Jan  | 16-Jan         | 199 |        |  |     |
| 6   | 6-Jan  | 17-Jan         | 200 |        |  |     |
| 7   | 7-Jan  | 18-Jan         | 201 |        |  |     |
| 8   | 8-Jan  | 19-Jan         | 202 |        |  |     |
| 9   | 9-Jan  | 20-Jan         | 203 |        |  |     |
| 10  | 10-Jan | 21-Jan         | 204 |        |  |     |
| 11  | 11-Jan | 22-Jan         | 205 |        |  |     |
| 12  | 12-Jan | 23-Jan         | 206 |        |  |     |
| 13  | 13-Jan | 24-Jan         | 207 |        |  |     |
| 14  | 14-Jan | 25-Jan         | 208 |        |  |     |
| 15  | 15-Jan | 26-Jan         | 209 |        |  |     |
| 16  | 16-Jan | 27-Jan         | 210 |        |  |     |
| 17  | 17-Jan | 28-Jan         | 211 |        |  |     |
| 18  | 18-Jan | 29-Jan         | 212 |        |  |     |
| 19  | 19-Jan | 30-Jan         | 213 |        |  |     |
| 20  | 20-Jan | 1-Feb          | 214 |        |  |     |
| 21  | 21-Jan | 2-Feb          | 215 |        |  |     |
| 22  | 22-Jan | 3-Feb          | 216 |        |  |     |
| 23  | 23-Jan | 4-Feb          | 217 |        |  |     |
| 24  | 24-Jan | 5-Feb          | 218 |        |  |     |
| 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  | 29-Jan | 10-Feb         | 223 |        |  |     |
| 30  | 30-Jan | 11-Feb         | 224 |        |  |     |
| 31  | 31-Jan | 12-Feb         | 225 |        |  |     |



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

| Gregorian calendar years (N) | Universal Terrestrial calendar years (M)<br>(the 21st of June of year N cal. G) | Gregorian calendar years (N) | Universal Terrestrial calendar years (M)<br>(the 21st of June of year N cal. G) | Gregorian calendar years (N) | Universal Terrestrial calendar years (M)<br>(the 21st of June of year N cal. G) | Gregorian calendar years (N) | Universal Terrestrial calendar years (M)<br>(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                                                                              | 2031                         | 63                                                                              | 2080                         | 112                                                                             |
| 1934                         | -35                                                                             | 1983                         | 15                                                                              | 2032                         | 64                                                                              | 2081                         | 113                                                                             |
| 1935                         | -34                                                                             | 1984                         | 16                                                                              | 2033                         | 65                                                                              | 2082                         | 114                                                                             |
| 1936                         | -33                                                                             | 1985                         | 17                                                                              | 2034                         | 66                                                                              | 2083                         | 115                                                                             |
| 1937                         | -32                                                                             | 1986                         | 18                                                                              | 2035                         | 67                                                                              | 2084                         | 116                                                                             |
| 1938                         | -31                                                                             | 1987                         | 19                                                                              | 2036                         | 68                                                                              | 2085                         | 117                                                                             |
| 1939                         | -30                                                                             | 1988                         | 20                                                                              | 2037                         | 69                                                                              | 2086                         | 118                                                                             |
| 1940                         | -29                                                                             | 1989                         | 21                                                                              | 2038                         | 70                                                                              | 2087                         | 119                                                                             |
| 1941                         | -28                                                                             | 1990                         | 22                                                                              | 2039                         | 71                                                                              | 2088                         | 120                                                                             |
| 1942                         | -27                                                                             | 1991                         | 23                                                                              | 2040                         | 72                                                                              | 2089                         | 121                                                                             |
| 1943                         | -26                                                                             | 1992                         | 24                                                                              | 2041                         | 73                                                                              | 2090                         | 122                                                                             |
| 1944                         | -25                                                                             | 1993                         | 25                                                                              | 2042                         | 74                                                                              | 2091                         | 123                                                                             |
| 1945                         | -24                                                                             | 1994                         | 26                                                                              | 2043                         | 75                                                                              | 2092                         | 124                                                                             |
| 1946                         | -23                                                                             | 1995                         | 27                                                                              | 2044                         | 76                                                                              | 2093                         | 125                                                                             |
| 1947                         | -22                                                                             | 1996                         | 28                                                                              | 2045                         | 77                                                                              | 2094                         | 126                                                                             |
| 1948                         | -21                                                                             | 1997                         | 29                                                                              | 2046                         | 78                                                                              | 2095                         | 127                                                                             |
| 1949                         | -20                                                                             | 1998                         | 30                                                                              | 2047                         | 79                                                                              | 2096                         | 128                                                                             |
| 1950                         | -19                                                                             | 1999                         | 31                                                                              | 2048                         | 80                                                                              | 2097                         | 129                                                                             |
| 1951                         | -18                                                                             | 2000                         | 32                                                                              | 2049                         | 81                                                                              | 2098                         | 130                                                                             |
| 1952                         | -17                                                                             | 2001                         | 33                                                                              | 2050                         | 82                                                                              | 2099                         | 131                                                                             |
| 1953                         | -16                                                                             | 2002                         | 34                                                                              | 2051                         | 83                                                                              | 2100                         | 132                                                                             |
| 1954                         | -15                                                                             | 2003                         | 35                                                                              | 2052                         | 84                                                                              | 2101                         | 133                                                                             |
| 1955                         | -14                                                                             | 2004                         | 36                                                                              | 2053                         | 85                                                                              | 2102                         | 134                                                                             |
| 1956                         | -13                                                                             | 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                                                                             |



## **APPENDIX 3 - Motto**

We are no longer like the dinosaurs  
which could only go extinct  
with the next meteorite to strike Earth,  
or with the Earth and Sun inflation...



The EXISTENCE  
of NO living being  
is superior  
to the one of another.



## PILARS OF THE KNOWN WORLD

around 0057 U. T. cal. (2026 Gregorian cal.)

For the Universe composed of  
MATTER and ENERGY in SPACE-TIME,

nothing is lost, nothing is created, everything is transformed  
(1st principle of thermodynamics)

spontaneously tending towards an equilibrium  
(2nd principle of thermodynamics),

oppose to it,  
by building in matter  
and putting it into motion,

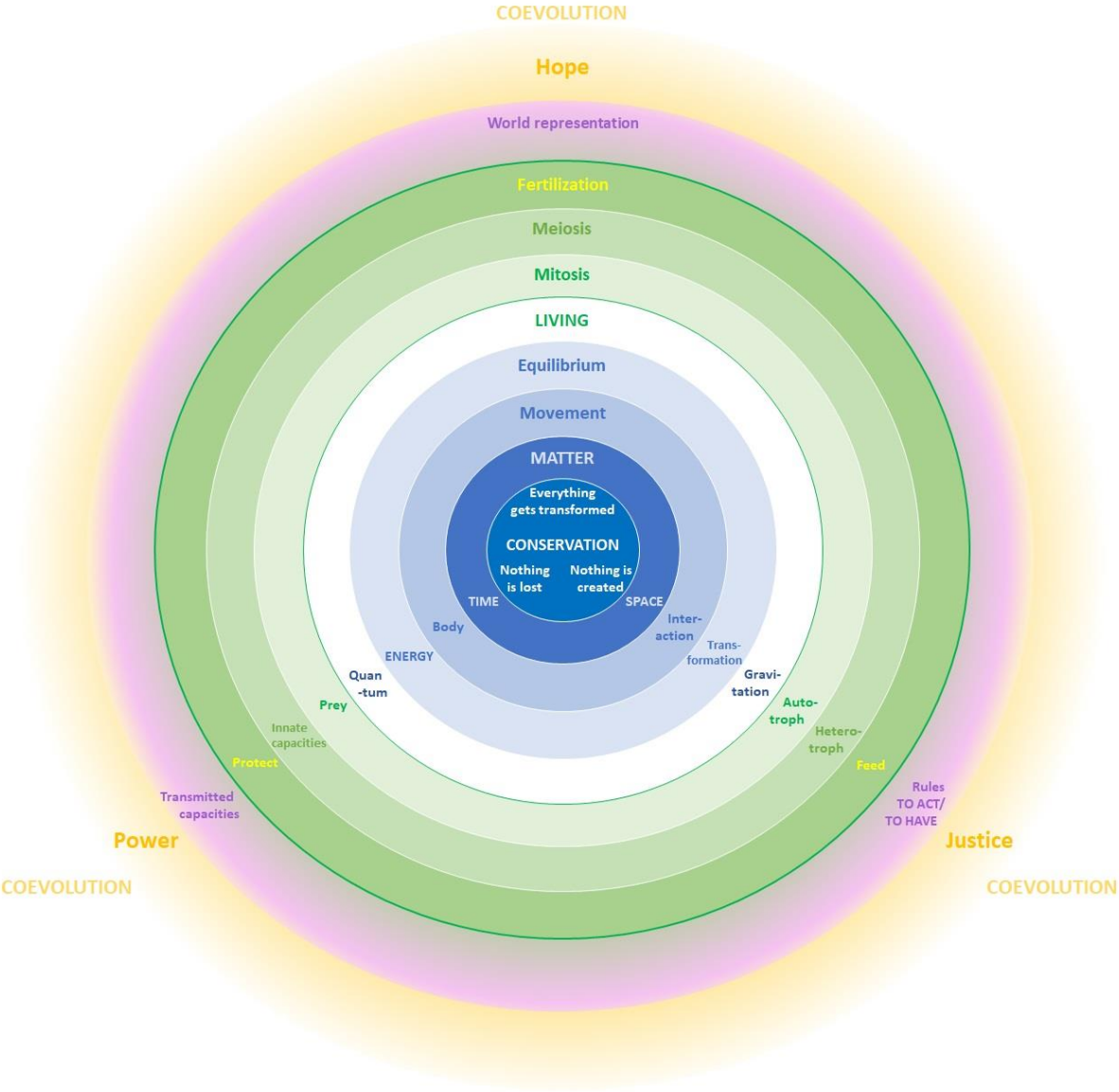
## GRAVITATION

## ...and the LIVING

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

- Known world:
  - Conservation (axiom: 1st thermodynamics principle): Nothing is lost / Nothing is created / Everything gets transformed
  - Known Universe: TIME / SPACE (emptiness) / MATTER
  - MATTER: Body / Interactions (defined with the nature of the body) / Movement (ENERGY)
  - ENERGY: Still (potential) / Movement / Interact-Energy transfer between bodies
  - Transformation (2nd thermodynamics principle): Difference of energies / Transition / Equilibrium of energies
  - Interactions: Quantum (defined with the elementary particles of MATTER) / Gravitation (SPACE-TIME) / LIVING
  - Living being: Protect / Feed / Reproduce (to live one's sexual character)
  
- Living Beings:
  - Protect: Prey (the living is food for the living) / Innate Capacities / Coevolution
  - Feed: Autotroph / Heterotroph (predator) / Coevolution
  - Reproduce: Mitosis / Meiosis / Fertilization-Coevolution (entomogamy,...)
  - Recognition: Biological / Culture / Identity
  - Living relations: Family-Territory / Friends-Support / Cohabitants
  - Feeling: Love / Friendship / Neutral
  - Trust: Strong / Confident / Fascinated-Frightened
  - Point of view: Me / My reality / Universal
  - Language : Intimate / Familiar / Neutral
  - Intellectual capacity: Description / Projection-Anticipation / Fantastic-Poetry
  - Technical capacities: Describe / Build / Anticipate-Imagine
  - Pragmatism: Useful / Pleasure / Dream (Transcendence)
  - Spirituality: Idealism (intimate-religions) / Determinism (known physics) / Emptiness-chaos (absence of coherence)
  - Vital pulse (heart resonance): Power (preserve what is acquired) / Justice (absolute equity) / Hope (to build a perennial path)
  
- Cohabitation:
  - Culture : Transmitted Capacities / Rules TO ACT – TO HAVE / World representation (values, fears, mystery, beliefs)
  - Organization : TO KNOW (Finite biosphere) / TO ACT / TO HAVE
  - Finite biosphere : Habitable "rock" (Planet, space base) / Ground-Sea-Sky (solid, liquid, gaz)/ Space
  - TO KNOW: Knowledge / Skills (tools) / Unknown (frontier of knowledge, mysteries, beliefs)
  - TO ACT: Practice / Make / Transmit-Research (Go Beyond)
  - TO HAVE: Needs / Value / Respect
  - Ownership: Private (exclusive use) / Public (shared, regulated use) / Virgin (to no one)
  - Requirements : Safety / Success / Glory
  - Responsibilities: Functional-Basic / Duty / Initiative
  - Priorities: Our nature (living beings) / Our tools / Our future







## For life

Living, our nature, identical.

Lean on what is fixed and solid inside your home,  
to take the time to digest, to describe the world in family,  
and to practice in order to be ready for action.

Equal despite our differences, our cultures shaped in a context.  
Share with your friends and work to understand to grow up,  
in order to build with trust the life journey,  
living movements at the interface of the lands, the seas and the sky.

Perenniality, partners, life won't stop.  
Meet the stranger to push our limits,  
understand the unknown, fascinating and scaring,  
to project outside, through space emptiness,  
the new life adapted to its new environment.

A falling tree makes more noise than the growing forest,  
this dead tree becoming itself a new oasis of life...

## Come out of your shell

All along the river  
Sundry Rhetorics flow.  
Was it a grace prayer,  
Or so erotic awe?

"I think of lots of things  
To help the planet..." ;  
A caring hand that rests,  
A fresh air quivering,

hold this lyrical flight;  
"... required." said the child,  
Full of life as they bounce,

Do they walk through their bounds.  
Further up on the edge,  
Does the Adventure wait ?

## Litany against the fear of the Bene Gesserit

Frank Herbert, Dune, 1965

« I must not fear.

Fear is the mind-killer.

Fear is the little-death that brings total obliteration.

I will face my fear.

I will permit it to pass over me and through me.

And when it has gone past, I will turn the inner eye to see its path.

Where the fear has gone there will be nothing.

Only I will remain. »

## The path is life

Force of the universe  
Making life possible,  
Sing inside us your verse,  
Resonate with power,

To love every moment  
This path that I am,  
To love throughout life  
The path every moment.

In your immanence  
Is my trust permanence,  
For then to disappear

As an illusion appears.  
Finite entity  
Walk to infinity!

## Resilience

*(Example for rewriting the French national anthem - la Marseillaise,  
to be sung to the same tune)*

Come on all children of Life,  
Each day's a glory to celebrate!  
Let's stand tall in the face of tyrannies  
Always proud to get up again,  
Peace is the living victory.  
Can you hear in the countryside  
the rustle of life that frolics ?  
It flourishes even in our steps,  
in cities, and now in space!

Life won't stop!  
Our hearts in unison,  
Let's sing, let's dance!  
Facing the hardest,  
Life won't stop!





## I am...

I am a dynamic process of building and animating matter,  
which, like a river, continually renews itself by digesting and integrating its environment,  
and whose source principle of the Universe is a mystery to the human species.

Child of a continuous chain of living beings from primordial cells,  
I am more than similar in nature to all living beings, but of the same family.

I myself am a potential starting point for the life of tomorrow,  
my life capable of merging with the one of another to give birth to a new living being,  
whom I would then welcome into a protective home  
and to I would transmit the state of my knowledge.

Faced with adversity, I allow the essential power  
of my emotions to emerge in the moment to protect me.  
Once the moment of aggression has passed, I ask for help  
so that justice may be served, to heal my wounds and to take the necessary step back  
so that the awakened power of protection... does not transform into destruction.

When I am lost, I dare to use the tools I have inherited  
to invent new ones and build my own path,  
sharing what I have learned without imposing it on others.  
When my final hours come, I will hand over to this original principle  
so that it may transform my life in its new state.

I am, therefore I can think... but I can also not do it.  
I am my body, my interactions, my movement.

**I am living.**



If birds have wings obviously to fly,  
 the intellectual capacity that life built up,  
 that human beings did not choose to have,  
 that would be there  
 whatever our organization is  
 (communist, capitalist, anarchic,...),  
 whatever our beliefs or religions are,  
 opens amazingly the opportunity for life  
 not to die with a space rock flying by and hitting the earth,  
 nor with its earth and sun disparities...

We are just lucky to have "awakened to intelligence",  
 to have reached this technological level  
 without any catastrophic planetary or space event  
 interrupting our development,  
 or even permanently wiping out the life started on Earth,  
 to be today in a very calm spatial context,  
 and that we have close to a billion years before the end of our star...

If the principle behind our ability to exist remains a mystery,  
 it is nonetheless true,  
 in view of the three billion years of life's existence on Earth,  
 that the most probable hypothesis is that...

Life won't stop

