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 if we wish to preserve the perenniality of living beings on the long term.

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

- separation of powers: 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 <u>Living Beings Manifesto</u>, available free online here <u>www.peacenlive.com</u>. If you are missing information to understand certain elements presented here, do not hesitate to consult this Manifesto.

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

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

WWW.PEACENLIVE.COM 21/06/0057

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:

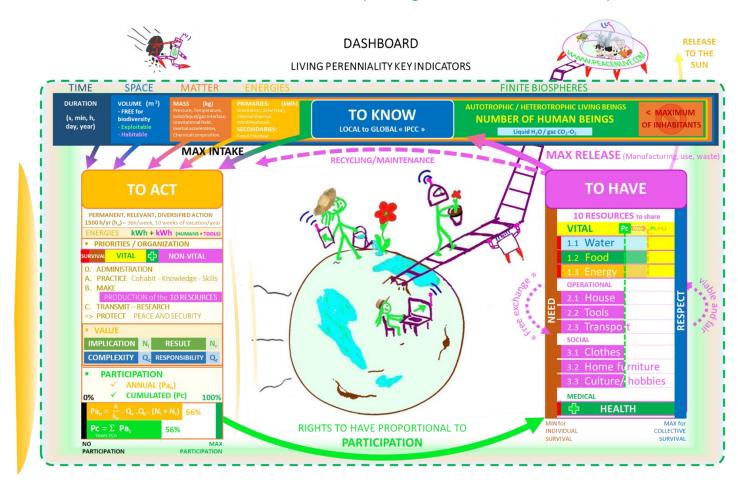


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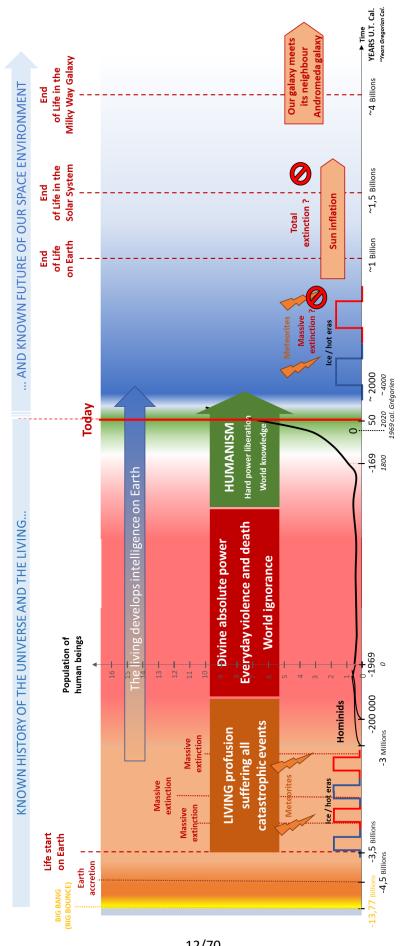
A

LIVING:

COMMON

HYPOTHESIS

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,
 - o in a physical context allowing the SOLID, LIQUID AND GASEOUS states of MATTER to coexist (pressure, temperature, gravitation, inertial acceleration rotating frame),
 - MATTER made up of a suitable distribution of atoms (C,H,O,N,Ca, etc.), including the presence of liquid water (H2O) in large quantities,
- ✓ in the presence of an almost constant source of ENERGY on a cosmic scale (millions of years radiation from a star or internal fusion of a planet),

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

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

Notes:

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

Corollary A. II. 1 (contrapositive)

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

LIVING

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 achieve its process of:

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

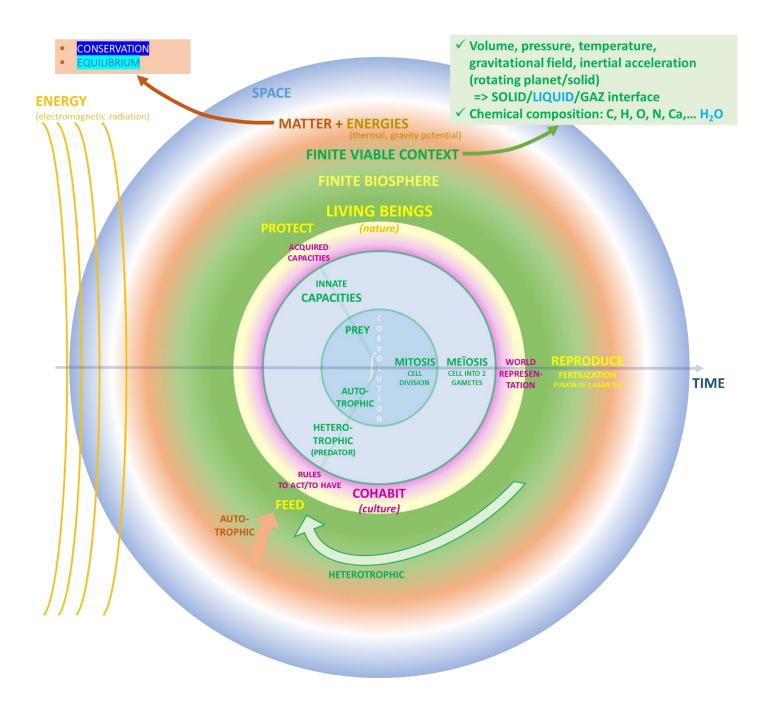
processes carried out by the cell for terrestrial life (concept of autopoiesis).

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

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

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

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



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

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

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

Page 12: "The living develops intelligence on Earth"

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

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

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

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

В

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

Article B.I.2

TO ACT: ACTION OF ALL SHALL BE

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

Article B.I.3

TO HAVE: DISTRIBUTION FOR ALL SHALL

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

II. MINIMAL ORGANISATION

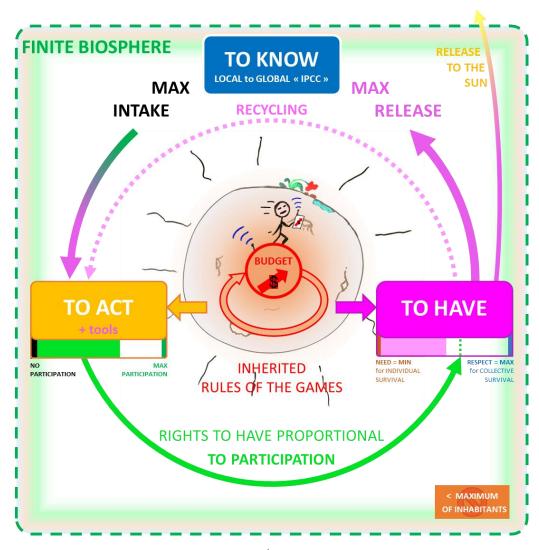
Article B.II.1

« STATE »

LOCAL AUTONOMY EVERYWHERE

PROTECTED BY THE STEPBACK AND COORDINATION
OF 3 TEAMS/INSTANCES

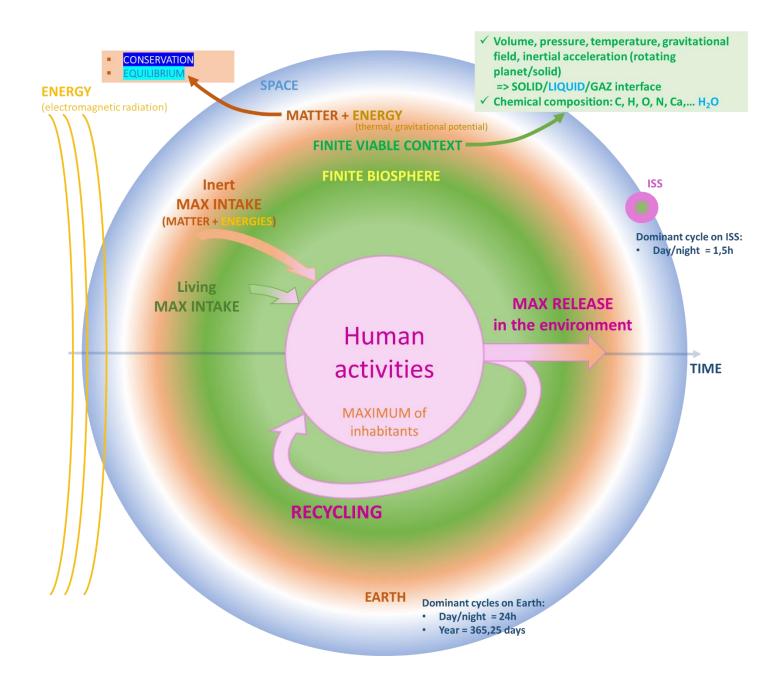
TO KNOW - TO ACT - TO HAVE



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 (volume) occupation (Lands/Seas/Sky):
 - a. SPACE to be left inoccupied by the human species to leave room for the profusion of biodiversity and the establishment of the LIVING perenniality.
 - i. continuity of this inoccupied SPACE through the FINITE BIOSPHERE to allow the coevolution of LIVING to be preserved.
 - b. SPACE exploitable by the human species.
 - c. SPACE habitable by the human species.

3. MATTER

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

4. ENERGIES:

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

5. LIVING:

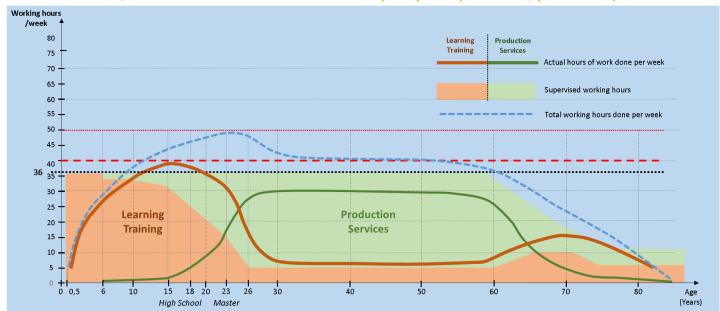
- a. Autotroph living beings ("plants"): mass, species, food chains...
- b. Heterotroph living beings ("animals"): mass, species, food chains...
 - i. "Intelligent" species (capable of building tools to cross SPACE emptiness) = number of human beings at the moment (0056 cUT 2024 cG).
- c. MAXIMUM of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

Article B.II.3

TO ACT

Example of an average ACTION pace over a lifetime :

36h/week + 10 weeks of vacation per year (=1500h/year = h_o)



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

- ACTION organized like so:
 - **O. ADMINISTRATION** (3 INSTITTUTIONS TO KNOW TO ACT TO HAVE MANAGEMENT)
 - A. PRACTICE Cohabit Knowledge Skills
 - B. MAKE

PRODUCTION of the 10 RESOURCES

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

With the identification of PRIORITIES in each activity:



- VALUE: on bounded scales
 - ✓ Implication assessment grade : Ni
 - ✓ Result assessment grade : Nr.
 - Complexity coefficient : Qc
 - Responsibility coefficient : Qr
- PARTICIPATION :
 - o ANNUAL: $Pa_n = [min(h/h_0; 1,05) . Qc . Qr . (Ni + Nr)] / Pa_{n max}$ (%)

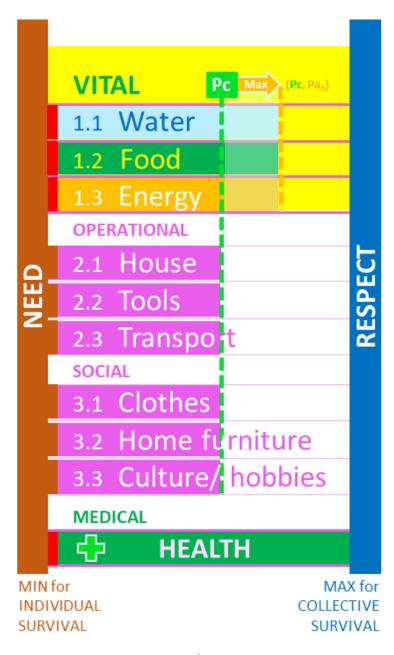
TO HAVE

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.



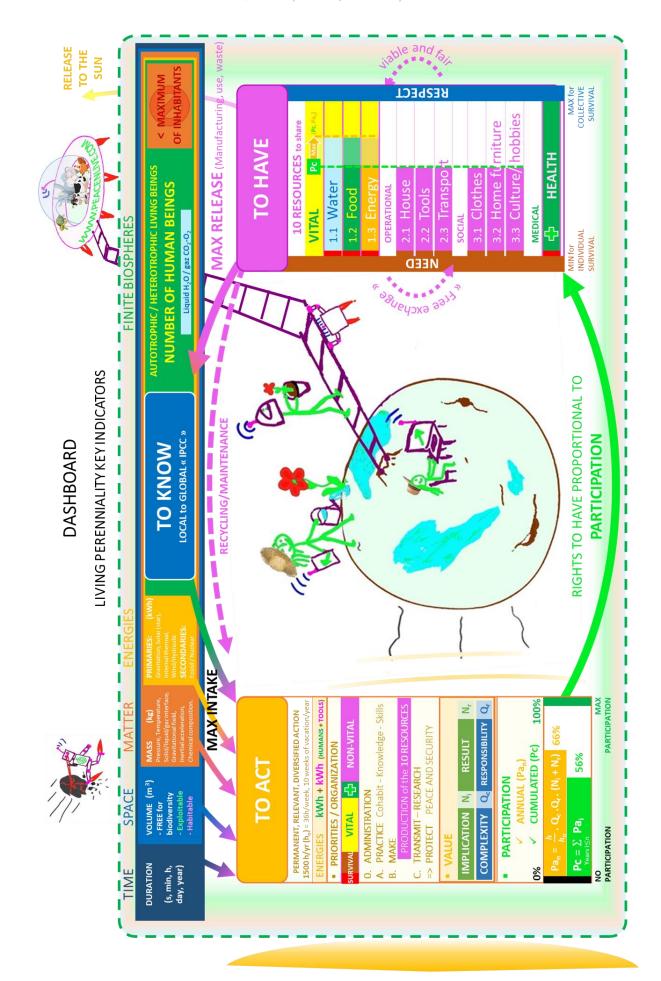
III. OPERATION

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

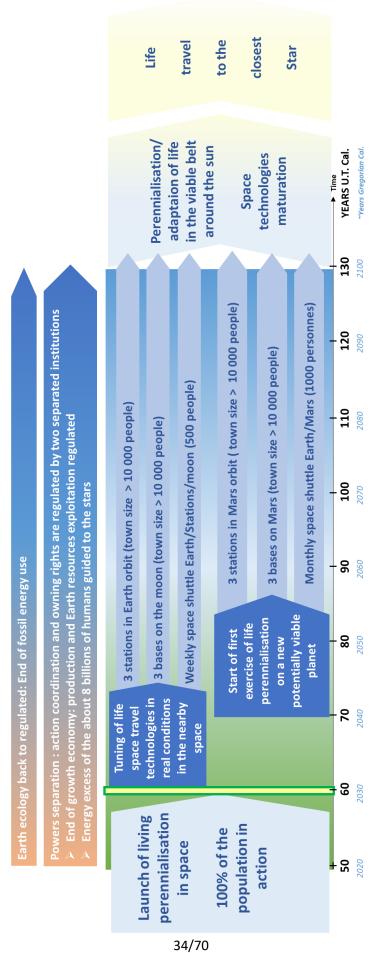
PERENNIALITY:

DIRECTIONS

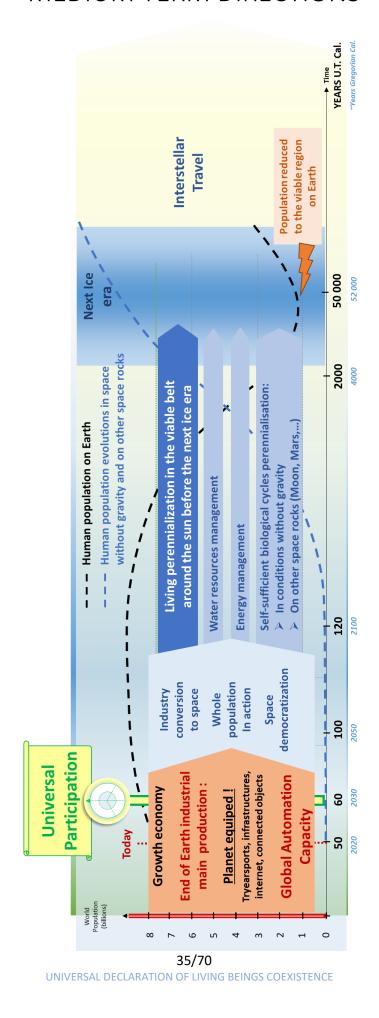
AND

PRIORITIES

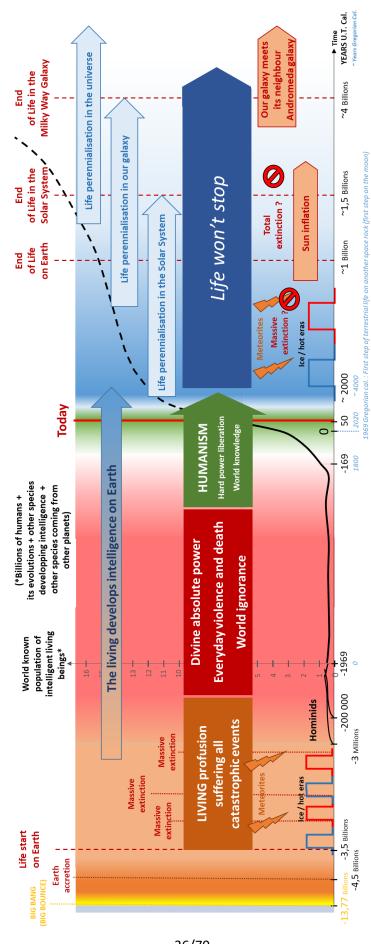
I. SHORT TERM DIRECTIONS



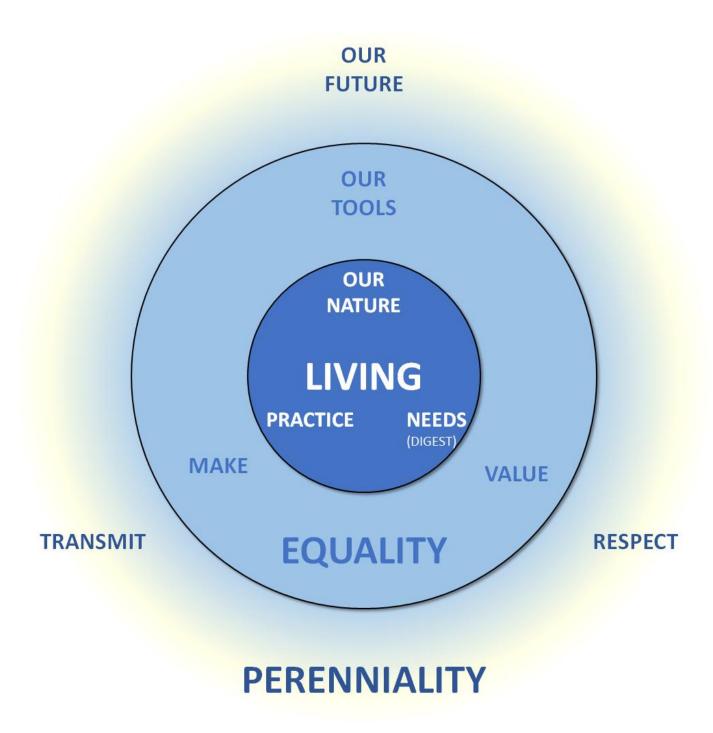
MEDIUM TERM DIRECTIONS



LONG TERM DIRECTIONS



II. PRIORITIES OF EVERY MOMENT



APPENDIX

APPENDIX 1 – 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 <u>OVERALL</u> VALUES, CONTINUOUSLY UPDATED BY THE THREE INSTITUTIONS TO KNOW – TO ACT – TO HAVE.
- PRIVATE: INDIVIDUAL VALUES OF THESE COUNTERS, MANAGED
 <u>SEPARATELY</u> AND <u>ANONYMOUSLY</u> BY THE <u>TWO TO ACT AND TO</u>
 <u>HAVE INSTITUTIONS</u> DEPENDING ON WHETHER THEY ARE
 MEASURES OF OUR ACTIONS ON ONE SIDE (TO ACT), OR OUR
 RIGHTS TO HAVE ON THE OTHER SIDE (TO HAVE).

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

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

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

APPENDIX 1.1

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.

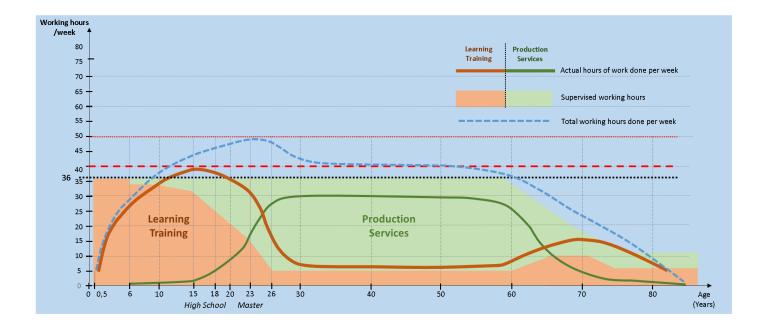
Especially avoid exacerbating cultures as the "soul of a Nation", as our "identity" which would define us deep within ourselves. Cultures are very real and are different but would constitute the "visible part of the iceberg", which shall not hide the overwhelming immensity of the common living nature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

APPENDIX 1.2

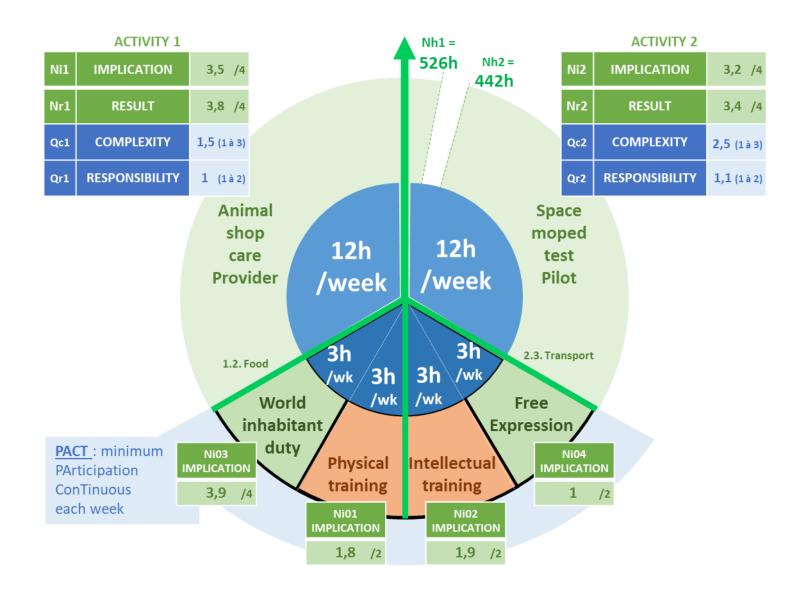
TO ACT

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



- from 6 months to 58 years old: 36h/week with 10 weeks vacation per year (1500h/year),
- 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

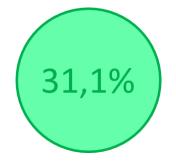
different fields of action, for example by trying to balance in 2 blocks of 500 hours rather physical activities with others rather intellectual, for which they would have acquired during their continuous practice the right level of competence.

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 ACTION assessment: PARTICIPATION

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

ANNUAL PARTICIPATION (Pa)



```
Pa = Ni01 + Ni02 + Ni03 + Ni04 +
min(Nh1/500; 1,05) . Qc1 . Qr1 . (Ni1 + Nr1) +
min(Nh2/500; 1,05) . Qc2 . Qr2 . (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).
- \triangleright Evaluation bounds : $0 \le Nx \le 4$
- $ilde{
 ho}$ Quotients bounds: $1 \leq \mathit{Qc} \leq 3$ and $1 \leq \mathit{Qr} \leq 2$
- $1 \leq \mathit{Qci}$, $\mathit{Qri} \leq 6$ = $\mathit{Q}_{\mathit{MAX}}$ = « 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 Qco:

SKILLS A BASIC SKILLS AND KNOWLEDGE (maintained in partic					·):				$1 \le Qc_o < 1.5$ — COMMON LEVE Minimum general training Middle school (years old)
MOBILITY Body coordination in SPACE and TIME (including voice)	PHYSICAL TRAINING POWER Strength and Speed	ENDURANO Duration of exe at a given POWE	rcise Listening,	NICATION	PROBLE Math	TUAL TRAINING EM SOLVING ematics and olications	IMP	LEMENTATION nologies and Arts	$1.5 \le Qc_0 < 2$ - CAPABLE: COMMOLEVEL + 12h/week for 3 years $2 \le Qc_0 < 2.5$ - MASTER: CAPABLE 12h/week for 3 years
2 ACQUIRED OPER	2.9	1.5	1	1.5		2.7		2.2	2.5 ≤ Qc _o ≤ 3 − AUTONOMOU MASTER + 12h/week for 3 years
Engineer	Computer program- ming	Veterinary	Technical Maintenance	Mu (pia		Chinese	е		Each level is validated by th durations of activity AND validation by a test of the n acquired skills, the results of th exams giving the assessment of
2.7	2	1.5	1.5	2		1.5		2	skill quotient between 1 and 3, the three thresholds 1.5, 2, and 2.

The Skill Level Quotient Qc₀ goes from 0.1 to 1 between the ages of 6 and 15, increasing by a tenth (0.1) each year.

It is calculated based on the average between:

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

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

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

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

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

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

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

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

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

$$Qc = \frac{1}{2}$$
. (Qco-a + Qco-p). Qh. Qpm . Qhp

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

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

As soon as you manage one person, then you are valued of 3% percent more : Qr = 1 + 0.1*LOG10(1+1) = 1.03.

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

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

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

Ni = Implication assessment grade

An Ni grade would be calculated based on:

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

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

Nr = Result assessment grade

An Nr grade would be calculated based on:

- Achieving the shared, potentially reconfigurable objective.

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

Recommendations for the "PACT": PArticipation ConTinuous

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

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

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

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

Recommendations for the different ACTION domain:

ACTION would be organized into 5 main branches:

- O. ADMINISTRATION (3 INSTITTUTIONS TO KNOW TO ACT TO HAVE MANAGEMENT)
- A. PRACTICE Cohabit Knowledge Skills
- B. MAKE

PRODUCTION of the 10 RESOURCES

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

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



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

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

0 – Administration

The main role of the 3 INSTITUTIONS 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 perenniality of the projects by updating separately, for each of the INSTITUTIONS, their identified MEASURES OF REALITY from local to global (the "dashboard").

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

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

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

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

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

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

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

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

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

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

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

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

A - Practice / C1 - Transmit

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

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

- A. The language for the expression and exchange of information (receive/meaning/send information).
- B. Logic for the treatment of links between propositions.
- C. Mathematics for the treatment of quantities.

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

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

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

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

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

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

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

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

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

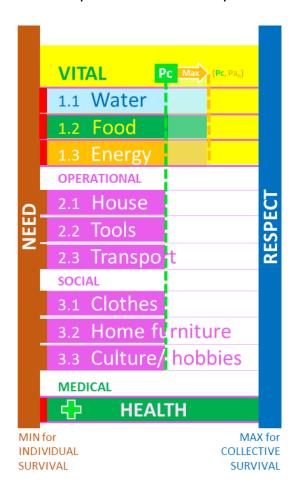
Finally, the combination of our **information processing abilities** and our **body skills**, of KNOWLEDGE and POWER, would constitute **our "intellectual" capacities** for action in the world which could be described as follows by putting all the pieces together:

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

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

B - Make

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

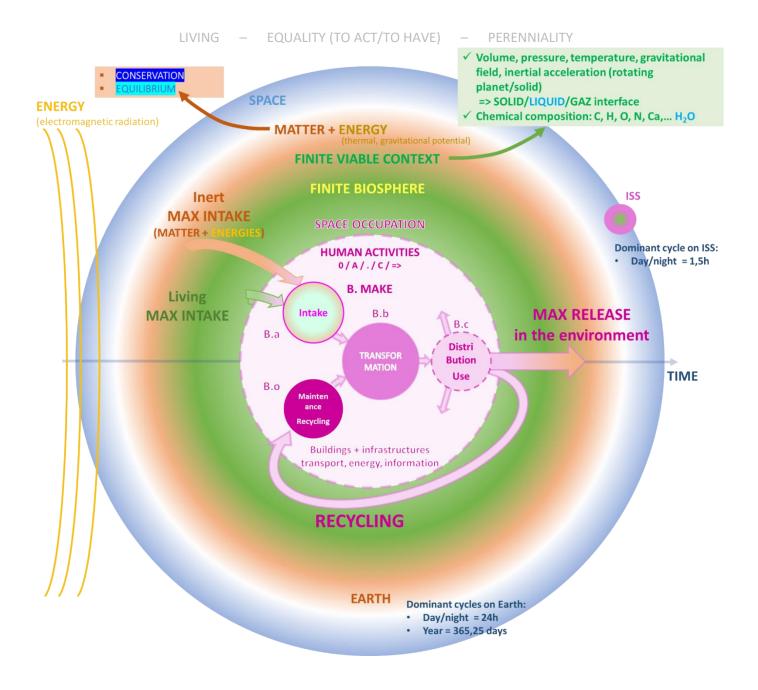


Each PRODUCTION category would necessarily have the following identical implementation phases:

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

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

RESPECT = MAX for COLLECTIVE SURVIVAL.



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



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

1.1 WATER / 1.2 FOOD / 1.3 ENERGY

Valued at the MAX between the **Annual** or **Cumulative Participation**, allowing to "instantly" value an extremely good annual participation by giving the person more

rights to quality food and water and energy. In the event of a lower **Annual Participation**, or even zero, it is the **Cumulative Participation** that archives our participation history that gives us our VITAL level of rights TO HAVE.

HEALTH is between VITAL and NON-VITAL.

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

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

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

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

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

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

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

C2 – Research

Main research axes to pursue/launch over our century:

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

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

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

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

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

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

ACTION DETAILED BREAKDOWN

"Local autonomy everywhere"

Demographic					B. MAKE			
	levels ion minimum size* which a region	Responsiblity quotient	O. ADMINISTRATION Number and renewal of managers representing and coordinating	A. PRACTIVE	PRIMARY RESOURCES (TIME, SPACE, MATTER, ENERGY, LIVING)			
shall for the	be autonomous issues given in the esponding line	1<= Q _r <=2 Qr =1 + 0,1*LOG ₁₀ (1+N) (**)	the 3 powers FINITE BIOSPHERE ACTION DISTRIBUTION	+ C.1. TRANSMIT Cohabit - Knowledge - Skills	B.o Maintenance and recycling	B.a Inta the envi Inert Extraction		
	> 1000 people	1,3	3 people (500h/year) for 3 years	0-6 years old elementary school	Hand made tools			
	> 10 000 people	1,4	3 people (500h/year) for 3 years	6-10 years old Primary school	Bicycles Small eletronic tools			
	> 100 000 people	1,5	3 people (1000h/year) for 3 years	10-18 years old Middle and High school	Home appliances/ motorbike	Shorte	st path	
Everybo	> 1000 000 people	1,6	6 people (1000h/year) for 6 years (renewed by half every 3 years)	18-21 years old Bachelor level University	Cars	Renev	wable	
dy	> 10 000 000 people	1,7	6 people (1000h/year) for 6 years (renewed by half every 3 years)		Aircrafts	Respec	ctful of	
	> 100 000 000 people	1,8	6 people (1000h/year) for 6 years (renewed by half every 3 years)	> 22 years old Master and PhD Levels		biodiv		
	1,9 for 9 years		9 people (1000h/year) for 9 years (renewed by a third every 3 years)	University	Space station			
	> 10 000 000 000 people	2	9 people (1000h/year) for 9 years (renewed by a third every 3 years)					
	ING TIME TOTAL 1000h/year)		2%	15% (A) + 3% (C1)	12%	3%	4%	
	GY SPENT TOTAL Intake kWh)		1%	2% (A) + 1% (C1)	10%	12%	8%	

kWh = ENERGY used by machines

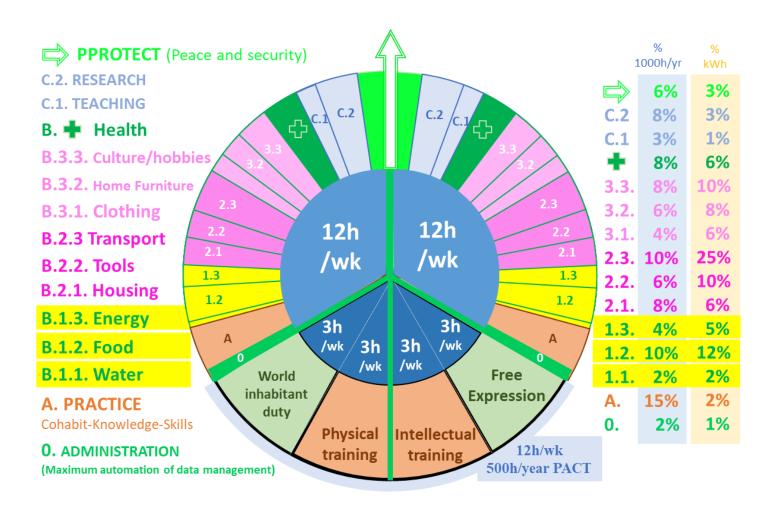
^(*) the population size is the first factor, distance and isolation of certain region with very small populations may be another factor to be considered

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

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

OVERALL ACTION ASSESSMENT

kWh = ENERGY used by machines



"MEASURE" of the REALITY of ACTION

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

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

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

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

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

HUMAN ENERGY (or LIVING energy if animals contribute to the action)

+

ENERGY used by machines

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

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

As a matter of fact, while the order of magnitude of our productive ACTION per year is around 70kWh, we consume, across all sectors in Western countries, the equivalent of tens of thousands of kWh per year! Approximately 400 to 600 times more than what we actually achieve in terms of effort, ENERGY... cf. Jean Marc Jancovici – 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

Since the inert materials and living beings present in the universe do not initially belong to anyone and therefore do not have an own "price", the <u>cost</u> 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 $Prod_{x,y}$ domain expressed in kWh (volumes that would respect upstream planetary limits):

1.1 WATER

1.2 FOOD

1.3 ENERGY

2.1 – 3.3 NON-VITAL RESOURCES

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

TO HAVE_{x,y} = MIN_{x,y} + Pc_i x
$$\Delta$$
Prod_{x,y}

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

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

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

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

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

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

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

"Free exchange":

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

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

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

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

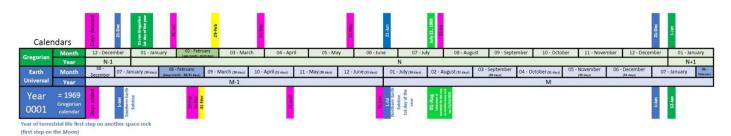
- 1.2 Food: apples for pears, eggs for a chicken, etc.
- 2.1 House: moving would be a simple, almost cost-free (automated), procedure of renaming the "owner", i.e. the exclusive occupant of the premises. The Cumulative Participation would directly indicate the "level" (surface, garden, facilities, etc) of real estate that could be accessed.
- 2.2 Tools: a rake for a spade, a smartphone for a PC, etc.
- 3.3 Culture & leisure: cinema tickets for entries to an amusement park.

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

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

APPENDIX 2 - Universal Terrestrial Calendar

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



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

CALENDARS

www.peacenlive.com proposition

	Greg	orian			Terrestria	l Universal	
Days/year	Day	Month	Year	Day	Month	Year	Days/year
335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354	1-Dec 2-Dec 3-Dec 4-Dec 5-Dec 6-Dec 7-Dec 8-Dec 10-Dec 11-Dec 12-Dec 13-Dec 14-Dec 15-Dec 16-Dec 17-Dec 18-Dec 19-Dec 20-Dec 21-Dec	12 December	N-1	12-Dec 13-Dec 14-Dec 15-Dec 16-Dec 17-Dec 18-Dec 20-Dec 21-Dec 22-Dec 23-Dec 24-Dec 25-Dec 26-Dec 27-Dec 28-Dec 29-Dec 30-Dec 31-Dec	06 December	Year	164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183
356 357 358 359 360 361 362 363 364 364	22-Dec 23-Dec 24-Dec 25-Dec 26-Dec 27-Dec 28-Dec 29-Dec 30-Dec 31-Dec			2-Jan 3-Jan 4-Jan 5-Jan 6-Jan 7-Jan 8-Jan 9-Jan 10-Jan 11-Jan			185 186 187 188 189 190 191 192 193 194
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	1-Jan 2-Jan 3-Jan 4-Jan 5-Jan 6-Jan 7-Jan 8-Jan 9-Jan 10-Jan 11-Jan 12-Jan 13-Jan 14-Jan 15-Jan 16-Jan 17-Jan 18-Jan	01 January		12-Jan 13-Jan 14-Jan 15-Jan 16-Jan 17-Jan 18-Jan 20-Jan 21-Jan 22-Jan 23-Jan 24-Jan 25-Jan 26-Jan 27-Jan 28-Jan 29-Jan	07 January	M-1	195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213
20 21 22 23 24 25 26 27 28 29 30	20-Jan 21-Jan 22-Jan 23-Jan 24-Jan 25-Jan 26-Jan 27-Jan 28-Jan 29-Jan 30-Jan		N	1-Feb 2-Feb 3-Feb 4-Feb 5-Feb 6-Feb 7-Feb 8-Feb 9-Feb 10-Feb 11-Feb	08 February		214 215 216 217 218 219 220 221 222 223 224 225
32 33 34 35 36 37 38 39 40 41 42 43 44 45	1-Feb 2-Feb 3-Feb 4-Feb 5-Feb 6-Feb 7-Feb 8-Feb 9-Feb 10-Feb 11-Feb 12-Feb 13-Feb	02 February (Leap month)		13-Feb 14-Feb 15-Feb 16-Feb 17-Feb 18-Feb 20-Feb 21-Feb 23-Feb 24-Feb 25-Feb	February (Leap month)		226 227 228 229 230 231 231 232 233 234 235 236 237 238 239

	LIVII	NG – EQUA	ALITY (TO ACT	/TO HAVE) -	PERENNIALIT	Υ	
46	15-Feb	2007	12111 (10 7.01)	27-Feb			240
47	16-Feb			28-Feb			241
48	17-Feb			29-Feb			242
49	18-Feb			30-févr			243
50 51	19-Feb 20-Feb			31-févr 1-Mar			244 245
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 57	25-Feb 26-Feb			6-Mar 7-Mar			250 251
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 63	2-Mar 3-Mar	-		12-Mar 13-Mar			256 257
64	4-Mar			14-Mar	00		258
65	5-Mar			15-Mar	09		259
66	6-Mar			16-Mar	March		260
67	7-Mar			17-Mar	IVIAICII		261
68 69	8-Mar 9-Mar			18-Mar 19-Mar			262 263
70	9-Mar 10-Mar			20-Mar			263
71	11-Mar			21-Mar			265
72	12-Mar			22-Mar			266
73	13-Mar			23-Mar			267
74 75	14-Mar 15-Mar	03		24-Mar 25-Mar			268 269
76	16-Mar	03		26-Mar			270
77	17-Mar	March		27-Mar			271
78	18-Mar			28-Mar			272
79	19-Mar			29-Mar			273
80 81	20-Mar 21-Mar			30-Mar 1-Apr			274 275
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 87	26-Mar 27-Mar			6-Apr 7-Apr			280 281
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 93	1-Apr 2-Apr	-		12-Apr 13-Apr			286 287
94	3-Apr			14-Apr			288
95	4-Apr			15-Apr	10		289
96	5-Apr			16-Apr			290
97	6-Apr			17-Apr	April		291
98 99	7-Apr 8-Apr	-		18-Apr 19-Apr			292 293
100	9-Apr			20-Apr			293
101	10-Apr			21-Apr			295
102	11-Apr			22-Apr			296
103	12-Apr		N	23-Apr		M-1	297
104 105	13-Apr 14-Apr			24-Apr 25-Apr			298 299
105	15-Apr	04		26-Apr			300
107	16-Apr	04 April		27-Apr			301
108	17-Apr	April		28-Apr			302
109	18-Apr	-		29-Apr			303
110 111	19-Apr 20-Apr			30-Apr 31-avrl			304 305
112	21-Apr			1-May			306
113	22-Apr			2-May			307
114	23-Apr			3-May			308
115	24-Apr			4-May			309
116 117	25-Apr 26-Apr			5-May 6-May			310 311
117	27-Apr			7-May			312
119	28-Apr			8-May			313
120	29-Apr			9-May	4.4		314
121	30-Apr			10-May	11		315
122 123	1-May 2-May	-		11-May 12-May			316 317
123	3-May			13-May	May		317
125	4-May			14-May			319
126	5-May	05		15-May			320
127	6-May			16-May			321
128 129	7-May	May		17-May			322 323
130	8-May 9-May	=		18-May 19-May			323
131	10-May			20-May			325
132	11-May			21-May			326
-							_

	LIVI	NG – EQU	ALITY (TO ACT,	/TO HAVE) —	PERENNIALI	Y	
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
138 139	17-May 18-May			27-May 28-May			332 333
140	19-May			29-May	-		334
141	20-May			30-May			335
142	21-May			1-Jun			336
143	22-May			2-Jun			337
144	23-May			3-Jun			338
145	24-May			4-Jun			339
146	25-May			5-Jun			340
147	26-May			6-Jun			341
148	27-May			7-Jun	-		342
149	28-May	_		8-Jun	-		343
150 151	29-May 30-May			9-Jun 10-Jun			344 345
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	12		350
157	5-Jun			16-Jun			351
158	6-Jun			17-Jun	June		352
159	7-Jun			18-Jun			353
160	8-Jun			19-Jun			354
161 162	9-Jun 10-Jun			20-Jun 21-Jun			355 356
163	11-Jun			22-Jun			357
164	12-Jun			23-Jun			358
165	13-Jun			24-Jun			359
166	14-Jun	06		25-Jun			360
167	15-Jun	00		26-Jun			361
168	16-Jun	June		27-Jun			362
169	17-Jun	Julie		28-Jun			363
170	18-Jun			29-Jun	-		364
171	19-Jun			30-Jun			365
172 173	20-Jun 21-Jun			31-juin 1-Jul			366 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	-	M	9
182 183	30-Jun 1-Jul			10-Jul	-		10 11
184	2-Jul			11-Jul 12-Jul			12
185	3-Jul			13-Jul	-		13
186	4-Jul			14-Jul	01		14
187	5-Jul			15-Jul	01		15
188	6-Jul			16-Jul	July		16
189	7-Jul			17-Jul	Jary		17
190	8-Jul			18-Jul			18
191	9-Jul			19-Jul			19
192 193	10-Jul 11-Jul			20-Jul 21-Jul			20 21
193	12-Jul			21-Jul 22-Jul			22
195	13-Jul			23-Jul			23
196	14-Jul			24-Jul			24
197	15-Jul	07		25-Jul			25
198 199	16-Jul			26-Jul			26 27
200	17-Jul 18-Jul	July		27-Jul 28-Jul			28
201	19-Jul			29-Jul			29
202	20-Jul			30-Jul			30
203	21-Jul			1-Aug			31
204	22-Jul			2-Aug			32
205	23-Jul		N	3-Aug		М	33
200	24-Jul		IV	4-Aug		IVI	34
206		+		5-Aug 6-Aug			35 36
207	25-Jul 26-Jul			7-Aug			37
207 208	26-Jul						
207	26-Jul 27-Jul	-		8-Aug	00		38
207 208 209	26-Jul			8-Aug 9-Aug	02		38 39
207 208 209 210 211 212	26-Jul 27-Jul 28-Jul 29-Jul 30-Jul			9-Aug 10-Aug			39 40
207 208 209 210 211 212 213	26-Jul 27-Jul 28-Jul 29-Jul 30-Jul 31-Jul			9-Aug 10-Aug 11-Aug	02 August		39 40 41
207 208 209 210 211 212 213 214	26-Jul 27-Jul 28-Jul 29-Jul 30-Jul 31-Jul 1-Aug			9-Aug 10-Aug 11-Aug 12-Aug			39 40 41 42
207 208 209 210 211 212 213 214 215	26-Jul 27-Jul 28-Jul 29-Jul 30-Jul 31-Jul 1-Aug 2-Aug	00		9-Aug 10-Aug 11-Aug 12-Aug 13-Aug			39 40 41 42 43
207 208 209 210 211 212 213 214 215 216	26-Jul 27-Jul 28-Jul 29-Jul 30-Jul 31-Jul 1-Aug 2-Aug 3-Aug	08		9-Aug 10-Aug 11-Aug 12-Aug 13-Aug 14-Aug			39 40 41 42 43 44
207 208 209 210 211 212 213 214 215 216 217	26-Jul 27-Jul 28-Jul 29-Jul 30-Jul 31-Jul 1-Aug 2-Aug 3-Aug			9-Aug 10-Aug 11-Aug 12-Aug 13-Aug 14-Aug 15-Aug			39 40 41 42 43 44 45
207 208 209 210 211 212 213 214 215 216 217 218	26-Jul 27-Jul 28-Jul 29-Jul 30-Jul 31-Jul 1-Aug 2-Aug 3-Aug 4-Aug 5-Aug	08 August		9-Aug 10-Aug 11-Aug 12-Aug 13-Aug 14-Aug 15-Aug			39 40 41 42 43 44 45 46
207 208 209 210 211 212 213 214 215 216 217	26-Jul 27-Jul 28-Jul 29-Jul 30-Jul 31-Jul 1-Aug 2-Aug 3-Aug			9-Aug 10-Aug 11-Aug 12-Aug 13-Aug 14-Aug 15-Aug			39 40 41 42 43 44 45

	LIVII	NG – EQU	ALITY (TO ACT/	TO HAVE) -	PERENNIALIT	Υ	
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
228 229	15-Aug	-		26-Aug			56 57
230	16-Aug 17-Aug			27-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 71
243 244	30-Aug 31-Aug			10-Sep 11-Sep			72
245	1-Sep			12-Sep			73
246	2-Sep			13-Sep			74
247	3-Sep			14-Sep	03		75
248	4-Sep			15-Sep			76
249	5-Sep			16-Sep	September		77
250	6-Sep			17-Sep			78
251 252	7-Sep 8-Sep			18-Sep 19-Sep			79 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	09		25-Sep			86
259 260	15-Sep 16-Sep			26-Sep 27-Sep			87 88
261	17-Sep	September		28-Sep			89
262	18-Sep	Joeptember		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
269 270	25-Sep			6-Oct			97 98
271	26-Sep 27-Sep			7-Oct 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	04		106
279	5-Oct			16-Oct			107
280	6-Oct			17-Oct	October		108
281	7-Oct			18-Oct			109
282 283	8-Oct 9-Oct			19-Oct 20-Oct			110 111
284	10-Oct			21-Oct			111
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	10		26-Oct			117
290	16-Oct			27-Oct			118
291	17-Oct	October		28-Oct			119
292	18-Oct			29-Oct			120
293	19-Oct			30-Oct			121
294 295	20-Oct 21-Oct			31-Oct 1-Nov			122 123
296	21-Oct 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	05		129
302	28-Oct			8-Nov			130
303	29-Oct			9-Nov	November		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
308 309	3-Nov			14-Nov			136 137
203	4-Nov			15-Nov			13/

	LIVII	NG – EQU	ALITY (TO ACT/	TO HAVE) -	PERENNIALIT	ΓΥ	
310	5-Nov			16-Nov			138
311 312	6-Nov	-		17-Nov			139
312	7-Nov 8-Nov			18-Nov 19-Nov			140 141
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
319 320	14-Nov 15-Nov	-		25-Nov 26-Nov			147 148
321	16-Nov	1		27-Nov			149
322	17-Nov	11		28-Nov			150
323	18-Nov	November		29-Nov			151
324	19-Nov	November		30-Nov			152
325	20-Nov			1-Dec			153
326	21-Nov			2-Dec			154
327 328	22-Nov 23-Nov			3-Dec 4-Dec			155 156
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
336 337	1-Dec 2-Dec			12-Dec 13-Dec			164 165
337	3-Dec		N	14-Dec			166
339	4-Dec		IN	15-Dec	06		167
340	5-Dec			16-Dec			168
341	6-Dec			17-Dec	December		169
342	7-Dec			18-Dec			170
343	8-Dec			19-Dec			171
344	9-Dec			20-Dec			172
345 346	10-Dec 11-Dec			21-Dec 22-Dec			173 174
347	12-Dec			23-Dec			175
348	13-Dec			24-Dec			176
349	14-Dec			25-Dec			177
350	15-Dec	12		26-Dec			178
351	16-Dec			27-Dec			179
352	17-Dec	December		28-Dec			180
353	18-Dec	-		29-Dec		М	181
354 355	19-Dec 20-Dec			30-Dec 31-Dec			182 183
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
362 363	27-Dec 28-Dec			7-Jan 8-Jan			190 191
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 4	3-Jan 4-Jan			14-Jan 15-Jan	07		197 198
5	4-Jan 5-Jan			16-Jan			199
6	6-Jan			17-Jan	January		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 13	12-Jan 13-Jan			23-Jan 24-Jan			206 207
14	14-Jan			25-Jan			208
15	15-Jan	01		26-Jan			209
16	16-Jan		N+1	27-Jan			210
17	17-Jan	January	_	28-Jan			211
18	18-Jan			29-Jan			212
19	19-Jan			30-Jan			213
20	20-Jan			1-Feb			214
21 22	21-Jan 22-Jan			2-Feb 3-Feb	00		215 216
23	23-Jan 23-Jan			4-Feb	08		216
24	24-Jan			5-Feb			217
25	25-Jan			6-Feb	February		219
26	26-Jan			7-Feb			220
27	27-Jan			8-Feb	(leap		221
28	28-Jan			9-Feb	month)		222
29	29-Jan			10-Feb	month		223
30	30-Jan			11-Feb 12-Feb			224 225
31	31-Jan						

1-Jan	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)
1-Jul	Earth Northern solstice: NEW YEAR celebration - Celebration of the LIVING and its mystery - celebration of all the arts (21st of June Gregorian calendar)
1-Aug	Celebration of the LIVING PERENNIALITY in the Universe: Celebration of the first step of terrestrial life on another space rock carried out on 01/02/0001 (21/07/1969 Gregorian calendar)

	1
Gregorian calendar	Universal Terrestrial
years (N)	calendar years (M)
7 (7	(the 21st of june of year N cal. G)
1920	-49
1921	-48
1922	-47
1923	-46
1924	-45
1925	-44
1926	-43
1927	-42
1928	-41
1929	-40
1930	-39
1931	-38
1932	-37
1933	-36
1934	-35
1935	-34
1936	-33
1937	-32
1938	-31
1939	-30
1940	-29
1941	-28
1942	-27
1943	-26
1944	-25
1945	-24
1946	-23
1947	-22
1948	-21
1949	-20
1950	-19
1951	-18
1952	-17
1953	-16
1954	-15
1955	-14
1956	-13
1957	-12
1958	-11
1959	-10
1960	-9
1961	-8
1962	-7
1963	-6
1964	-5
1965	-4
1966	-3
1967	-2
1968	-1

MILKY WAY – SUN – EARTH

Gregorian calendar years (N)	Universal Terrestrial calendar years (M) (the 21st of june of year N cal. G)
1969	1
1970	2
1971	3
1972	4
1973	5
1974	6
1975	7
1976	8
1977	9
1978	10
1979	11
1980	12
1981	13
1982	14
1983	15
1984	16
1985	17
1986	18
1987	19
1988	20
1989	21
1990	22
1991	23
1992	24
1993	25
1994	26
1995	27
1996	28
1997	29
1998	30
1999	31
2000	32
2001	33
2002	34
2003	35
2004	36
2005	37
2006	38
2007	39
2008	40
2009	41
2010	42
2011	43
2012	44
2013	45
2014	46
2015	47
2016	48
2017	49

Gregorian calendar years (N)	Universal Terrestrial calendar years (M) (the 21st of june of year N cal. G)
2018	50
2019	51
2020	52
2021	53
2022	54
2023	55
2024	56
2025	57
2026	58
2027	59
2028	60
2029	61
2030	62
2031	63
2032	64
2033	65
2034	66
2035	67
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2061	93
2062	94
2063	95
2064	96
2065	97
2066	98

Gregorian calendar years (N)	Universal Terrestrial calendar years (M) (the 21st of june of year N cal. G)
2067	99
2068	100
2069	101
2070	102
2071	103
2072	104
2073	105
2074	106
2075	107
2076	108
2077	109
2078	110
2079	111
2080	112
2081	113
2082	114
2083	115
2084	116
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2088	120
2089	121
2090	122
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2093	125
2094	126
2095	127
2096	128
2097	129
2098	130
2099	131
2100	132
2101	133
2102	134
2102	135
2103	136
2105	137
2106 2107	138 139
2107	140
2109	141
2110	141
2111	143 144
2112	
2113	145
2114	146
2115	147