RRE
White paper
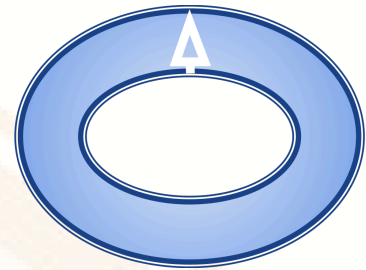
The Resilience-to-Robustness Equilibrium (RRE) process
proposed by the OneGoal Initiative for Governance (OGI)
under its Qaucus programme

February 7, 2024, Geneva

To think about systemic limits[1], start by asking:

If the nature of this unfolds to the fullest extent, across the entire system, what will the resulting system be? Is this a diverging, converging, oscillating or stable proposition? As this event or process that happened could happen, what else can happen?

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[1] In the mathematical sense. This is different from resource finiteness.
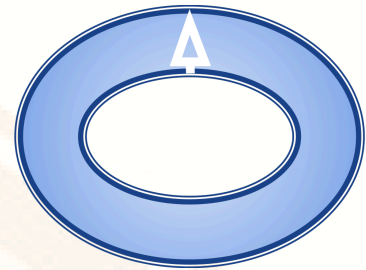
About OGI

Sparked by the observation of the margin problem (see below), problem which raises avoidable risks, OGI is an international and universal endeavor with an innovative approach to risk and to global governance. It was launched in Geneva in 2021 by Alève Mine, the first advisor on risk recursion, the risk arrow and the Resilience-to-Robustness Equilibrium (RRE) process. In the framework of its Qaucus programme, it proposes the implementation of RRE, a permanent process independent from the specific technologies involved in the system to be governed, process that is applied in all circumstances.
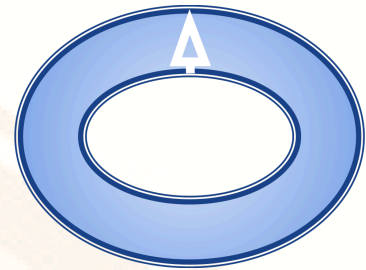
The OGI **vision** is an empowered humanity that proactively minimises unnecessary risks, harnesses the full extent of its knowledge and gives itself the maximum space for its intrinsic development.

The **mission** is therefore to initiate and sustain the worldwide process that embodies this vision: the Resilience-to-Robustness Equilibrium (RRE): only this specific global evaluative collaborative work can solve the margin problem to the largest extent possible.

The mission is aimed to be eventually fulfilled through:
- Research, development, and information in the fields of our functions and of the RRE process itself. In the initial phases, research and development will aim to design the bridge to current processes, the understanding upon which collaborative action will be taken. An accurate formulation of the requisites of RRE will be sought, along with preliminary research on modeling and consolidation methods.
- Operations of strategy building and execution. This activity is not current in the initial phases.
- Coordination, RRE universalisation and diplomatic support of deliberations.

Today, partnerships and collaboration are sought for some of the research and development.

Why OGI and why RRE in its entirety:

OGI provides directionality with the required consequence upon the observed state of affairs: the nature of our system. It is the only initiative that will enable RRE in the foreseeable future. Conveying the visceral understanding that enables consequent action may not be systematically possible.

Partial adoption of RRE is not viable, because it would mean maintaining or enlarging the avoidable loss. RRE must be implemented entirely.

Why now:

RRE ideally should have been implemented in any feasible shape from our dawn, but it is particularly pertinent now partly because it is on the table now for the first time, and partly because we are making uniquely big decisions in rapid succession in conjunction with a rapid technological evolution and a trend toward "blobbalisation" - processes that lead to cluster risk, whereby system losses tend toward the "blobbalized", or "made effective", de-facto goal's. In other words, mistakes made now are most powerful mistakes.

In this constellation, when the strides are not taken in the most advantageous respectively least deleterious direction, a large avoidable damage implying a permanent loss of options and of human potential is to be expected. The thought process leading to OGI may be abstract, but the consequences of a non-implementation of RRE accumulate as time passes and events unfold. They are more concrete, immediate and close to home than we commonly tend to assume about the subject of sustainability - whereby the approach here has a wider scope than sustainability in the sense in which the word is typically used.
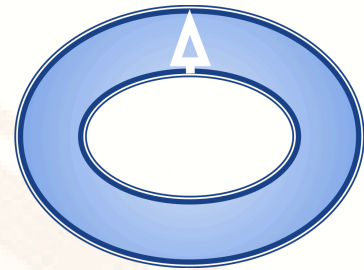
Some definitions

Resilience, in our context unlike in its common use which is closer to robustness, is defined as the modification of a system's functional requirements in the face of a strain or shock. It is not a quality but a process, such as the one by which a piece of metal becomes elongated through tension, according to its ductility. This inflicts damage. In other words, it pushes our system toward or past the limits of our functional leeway.

A resilience excursion is the transgression of our functions' full requirements and must be limited to cases and extents where actors are incapable of prevention, or when the strategic approach based on scenarios and simulation requires it in order to avert yet less desirable outcomes. Resilience excursion decisions are serious and the system and its evolution must be weighed and studied in depth before reaching such a decision.

Robustness is the ability of a system to uphold the fulfillment of its functional requirements in the face of a strain, whereby shock is a type of, or a way of seeing, strain. Robustness is strain-specific. Robust does not mean rigid: on the contrary, agility and flexibility may be required to ensure robustness.

Our system, alternatively formulated as "the system", is constituted by humans, their identity and their environment, wherever humans may be. This also includes processes involved in societies. Humans in it are to be modeled in a non-interchangeable manner.

Rules are here seen as referring to any of: laws, regulations, norms, standards, ethics, heuristics, influence, code, incentives, as well as to the impact of the judiciary or of the executive, or other vehicles of nature to restrict or facilitate actions. To its full extent, this definition makes the topology of a system

A programme, in the framework of consolidation steps (see further below) of RRE, is any of: A set of actions within a setting or their description; Data from and models of whole or parts the system; A direction of knowledge exploration and research; The specifics of communication or of a flow of information; Rules or a model shaping actions or setting boundaries to actions or to options; Funding or financing processes, which can be seen as a type of regulation; RRFs; RRE itself; Consolidation levels 3-5; Descriptions, abstractions or automation scripts of any of the above. In these, "**action**" refers to either the topological significance of the content (embodiment of the programme) or the actions that are fueled by the programme. Aim, action, assets, resources and burn rates are some of the attributes of programmes.
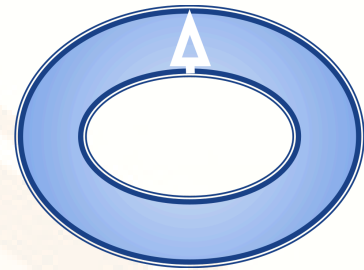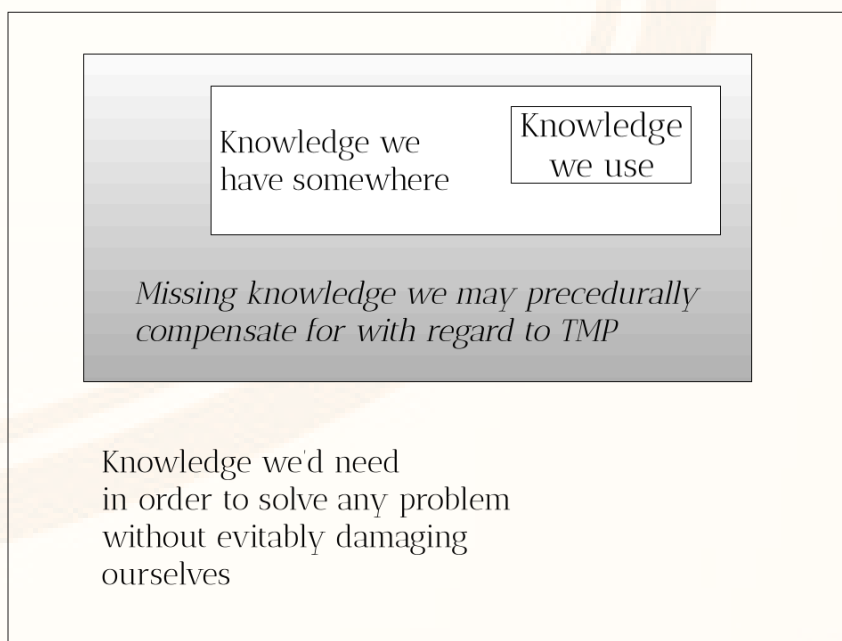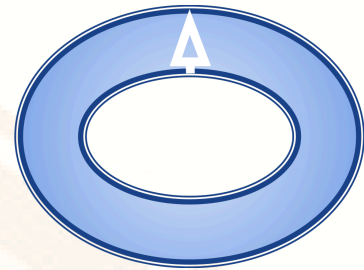
The problem decision makers face: The Margin Problem

The fundamental problem that we are facing, underlying and generating all other concerns, is the "Margin Problem", which is the situation that arises pursuant to specific perennial processes that lead to the divergence of our actions from those that could bring about the best outcome - for us as humanity and in particular for us as decision makers.

These four - let us portentously call them horsemen - are:

1. **Internal Drive**: The tendency to seek safety and security for oneself and for persons or groups of one's predilection. In the light of the other horsemen, this leads to an overall worse outcome for these very groups.

2. **Incompleteness of Knowledge**: Notwithstanding the impossibility of complete knowledge, what informs our decisions today is unnecessarily skewed information. We cast ourselves adrift, and move our reference frame along with us, largely unaware. Here is a depiction of the issue (TMP stands for "the margin problem"):

Knowledge we
have somewhere

Knowledge
we use

Missing knowledge we may precedurally compensate for with regard to TMP

Knowledge we'd need
in order to solve any problem
without evitably damaging
ourselves

3. **Risk Recursion**: Transferred risks keep a momentum and continue being transferred to adjacent compartments and transformed at each step. Time to recurrence isn't necessarily long. De-risking without worsening one's own risks is only feasible when risk is deleted without creating or worsening other risks anywhere in the system that is constituted by humans and the environment they are interacting with taken together, be it on Earth or elsewhere.

4. **The Risk Arrow**: As in the concepts of the time arrow or the rise of entropy, risks grow at every action as well as with the evolution of systemic processes, due to the compounding of side effects. This systemically evolves into a runaway risk growth. When actions don't match our system's topology, rises in activity like the speed of money, innovation, in efficiency or in blobbalisation make our system less viable and accelerate the rise of risks, option losses and risk realisations.

Internal Drive and Incompleteness of Knowledge drive decisions and are at the root of our misalignment relative to the nature of our system, while The Risk Arrow and Risk Recursion collectively exponentially translate that misalignment into damage: A risk transfer is the swap of a loss for another, in a context of an accrual of risks.

These mean that we the decision makers not only are drifting away from our best outcome, but also that we **don't have any option to transfer risks**.
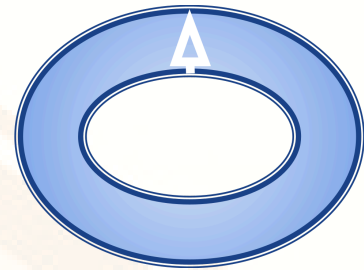
The solution: RRE

An agile, deliberative and computational governance process with foresight, coordination, and an innovative approach to risk and to our system. A permanent process that safeguards our functions including our vital values, independent from the specific technologies involved in the system to be governed, that is applied in all circumstances and considers our system in its entirety, including its journey across time.

The detailed ramifications of these functions constitute our topology, in other words the nature of our system, which technically defines our best path. The RRE process systematically identifies and implements the next step on this long path in order to avoid avoidable risk and damage onto ourselves.
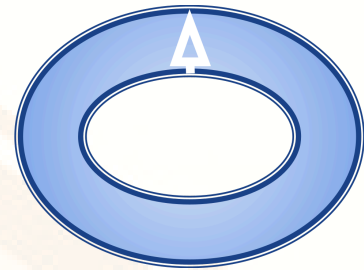
Here is a rough picture of how the implementation looks in practice. In order to deal with the margin problem, we:

- Build capacity to execute the points below.
- Model our topology: the functional structure of the resilience and robustness factors (RRFs) that describe our functions including the RRE process. Update and populate the model with top-down, bottom-up and observational information.
- Run simulations, yielding scenarios.
- Couple that result with an international, national, local and individual deliberative process, yielding a single plan covering all scenarios within the leeway available for our functions.
- The result of these will then involve collaborative implementation and coordination throughout the world, including of large projects. This will constantly rebuild potential to streamline our functions.
- Reiterate.
- Research and development activities will support and further the above.

This allows for relevant foresight and better informed decision-making.

RRE uses a **single measurement of our sustainability: the vector M**, for Margin, of the inverses of risks to our functions (or RRFs, see below). The vector M isn't meant to be interpreted as a standalone measurement: it is evaluated in the light of scenarios.

The mentioned RRFs (Resilience and Robustness Factors, in other words our functions), of which the analysis yields our topology at any level of detail reached, are the following:

Fertility needs of demography can grow or shrink depending on the scenarios at hand, while each individual, family, culture or party has their own approach. We aim to thoroughly inform, at all levels and granularly, of the direct and indirect impacts of decisions in that arena on the actors themselves and on everyone, and what this means for each RRF. Such informational fertility management is to become effective in synergy with non-sundering, and an effective understanding of the margin problem, which should reduce the attractivity of interregional population size competition, or security-oriented motivations at a household level.

Territory is not about national territory, but human territorial needs, which may grow or shrink or change in type. It includes exploration of uninhabitable locations and natural resources.

Research includes fundamental research and R&D in all areas of RRE, and the enhancement of human knowledge, capabilities and research processes.

Internal non-combustion is about the prevention of all activity and structure through which we would be senselessly using ourselves up. While each person and culture will have their understanding of what is senseless, in my mind that is all that works against the here listed functions directly or via misdirected strategy or process. In other words, it is what drains us of relevant impetus.

Conservation includes traditional fields of conservation as well as all that is needed to maximize the capitalisation on and avoid the leakage of acquired knowledge, of experience, of assets, of capabilities and of human development: leakage through physical, informational or know-how loss or deterioration. A grasp of the significance of each object conserved needs to be maintained. To illustrate the intent: a mountain climber needs a firm hold to push themselves further up.

Disaster readiness needs no introduction. Without sundering!

Habitat includes all that allows humans be present in and access the world. It includes all things access, health and environment in addition to items like urban areas, transport, housing or sanitation.
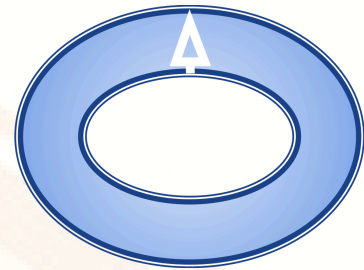
**Operations** are those of RRE.
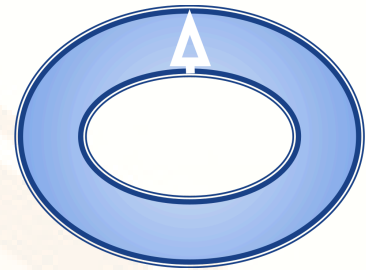
Intrinsic development is not specifically defined in its nature by the Initiative: it is for each person and group their own experience, their exploration of themselves and betterment on their own terms. Here the function is to make space for it. This has a vital character in the <u>long term, and in any timeframe where a perceived need</u> for intrinsic development exists.

Non-sundering goes against the segregation, exploitation, sacrifice or discardment of humans. This definition somewhat modifies the meaning of the word sundering as I wasn't able to find a word that fully represents the concept. Non-sundering carries <u>immediate and long term</u> vital value, entails respect and requires the identification of processes by which the exploitation, exclusion, sacrifice and discardment of humans could take place if it were to happen, the impact of structures/patterns on the facilitation or likelihood of those processes to take place, and the impact/role of agents on the execution of processes and on such structures. It will nevertheless not be assumed that total equality is possible: a certain degree of specialization brings better performance while different tasks have different prerequisites, consumption patterns and impacts on the people doing that work; individual abilities and preferences differ, making an undifferentiated turnus across activities to obtain a homogeneous outcome inappropriate in that respect (From those first points, there follows that a healthy level and directionality of meritocracy should enable a viable level of relevant productivity, but it is proposed that meritocracy should not be too strong or irrelevant, or else it becomes equivalent to sundering.); some projects require group collaboration, making the sum of the impacts different - better or worse - than separate individual actions that would have taken place; subjective experience isn't fully comparable; certain needed projects require accumulated resources; some degree of inequality provides for some hope and satisfaction through one's progress; physical, informational, resource-, organisational, regulatory and experiential impacts of actions and of events don't spread instantly, everywhere, to everyone and in all circumstances, including due to a ubiquitous tendency to go for an immediate or assumed externally relative advantage.

Priorities among these will depend on the scenarios at hand, the context like scope of action, or levels of impact at any given point in time, whereby non-sundering always has priority. There exist some connections between these functions and an aspect of an object may concern one function, while another aspect of the same object may concern another function.

The RRE process itself is depicted in the following figure:
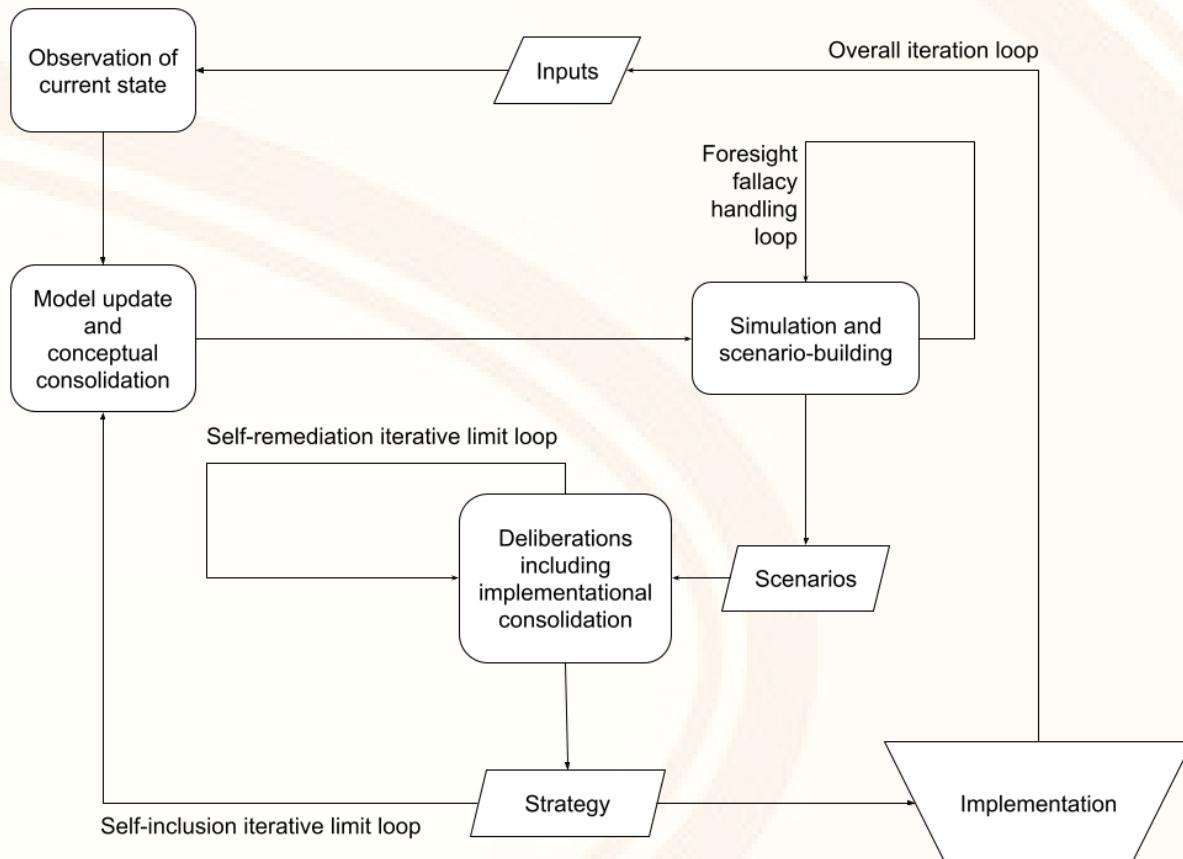
Bottom-up input is sought specifically for this process in addition to other data, models and computation. It will enable a better potential-building for actors to fulfill their needs.

The **self-remediation iterative limit loop** is an iterative limit calculation whereby the side effects of the considered interventions are all remedied, and the side effect of those remedies are remedied, and so on, and multiple initial intervention sets may be considered in order to identify the solution with the least undesirable impact.

The **self-inclusion iterative limit loop** is an iterative limit calculation whereby the system resulting from its modification by the strategy is taken again as an input until the model stabilizes. Research would be needed to identify when the exploration of strategic possibilities is then limited by a local phenomena in the chaos theory- respectively entropy sense and how the variations in deliberations at each iteration play into these use cases. It feels that a divergence at the limit in this loop should hint at a mistake in the process.
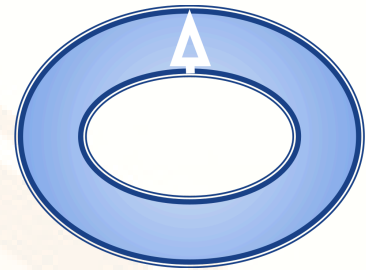
The selected strategy will include "**winding-up measures**" that build up robustness in the form of functional potential (just as in potential energy) in the position or readiness of process assets, in a streamlined or automated manner toward the post-excursion- or the targeted future state of fulfillment of the RRFs.

In order for our motor function (as an analogy) to be coherent, in other words for our strategies to yield their expected outcome as will then be observed in the subsequent input and to deal with **uncertainty** about the capabilities of actors as well as the unknowns associated with the use of technologies, rules should not only enable RRE at every turn, but also:

1. Be outcome- (incl. externalities-), capabilities- and structure-based[2] and be informed by the nature of our drives, especially in themes with substantial unknowns.[3] Structures can be seen as a type of process or programming, as they will tend to facilitate one or the other process by being in the system[4], as verb-based languages may hint at: an object manifests itself in the world through processes, therefore can be conceptualised as such.
2. Not be limited to such of which transgressions can be detected consistently or detected today at all. Rules can take a harvest-now-adjudicate-later approach.
3. Not be limited to rules of the form "available paths exclude [..] / include only [..]" but include rules of the form "availables goals exclude [..] / include only [..]". This addresses a type of loophole exploitable through dispersed or reframed action.
4. Allow for legal action (by and) against groups of entities or actors in relation to a collective result they brought about.

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[2] Organisational, cultural and policy structures facilitating moral disengagement should be a focus.

[3] In the case of tech: Policies cannot be technology-neutral because technologies are not policy-neutral: each may have a different impact on given factors while on the same policy. Consequently, technology-neutral policy will potentially provide an asymmetrical and non-constructive advantage distribution, is not sustainability-neutral, nor equality-neutral. Technologies and the manner of their embedding into a function of society constitute a structure that impacts processes and propensities in a differentiated way.

[4] https://en.wikipedia.org/wiki/Passive_dynamics#/media/File:Passive_dynamic_walker.gif as an illustration of how structures or the nature of an object can lead to an action or facilitate a process. Another concrete example: During the United Nations' Global Digital Compact deep dive session on internet governance, the Secretary General's Tech Envoy rightfully noted that the conversation went beyond the scope defined by the title of the session. This is because structures and capabilities enable that, while drives push toward that. Therefore it happens.
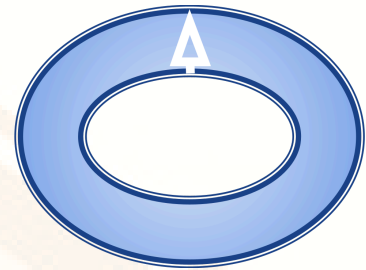
5. View the procedural and durational embodiment/outcomes of adjudication and execution as part of the rules, whereby if the embodiment is changed, the written rule must be changed if the effective rule, in the way it actually impacts the world, is to be upheld.
6. Allow for contextual interpretation when harm upon persons (respectively on RRE) would incur in their strict execution in a given case. Indeed, relevant knowledge or insight was not necessarily available to the legislative process for a rule's formulation.
7. Provide the purpose of the rules and carefully allow for derogation when, in a given case, the execution would not serve that purpose.
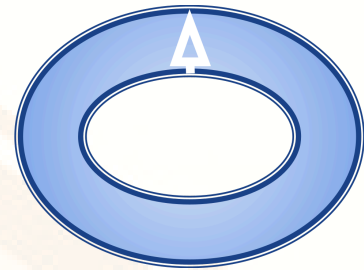
The **iterative interruptions** of previous strategies will require a corresponding approach to the design of strategies, projects and objects built, and a sense that unused work, at the various loop levels, is not useless work. For the overall iteration loop, a midway wrap-up process and the rechanneling or repositioning of incoming and of available resources toward the current targets will take place. There arises a dichotomy between the degree of (in)completion and the value of the programme. Design principles to deal with this matter exist. This also relates to the concerns of circularity, just transition and sunk assets or sunk investments.

The conceptual and implementational **consolidation** steps refer to a screening and adjustment for coherence and consistency. The conceptual consolidation step provides clarity about the actual impact of the then current governance. The implementational consolidation step supports a frugal and effective strategy and implementation. Consolidation is done at 5 levels, whereby levels 3-5 run in parallel and level 2 is continuously updated from its inception. The (in)accuracy and obsolescence of assumptions or of the organisational breakdown and of the maintenance of structures and processes, respectively the integrity of the knowledge thereof by actors, is monitored and rectified. Programmes are redesigned as needed along consolidation dimensions (see further below) at each level.

The 5 consolidation levels are:

> **Level 1: Consolidate between our nature and our permanent goal.** Which permanent goal matches our nature? This is covered with the identification of RRE as our permanent goal. If the goal isn't permanent, the required effort or resource use for the regulatory function may accrue, eventually leading to dysfunction. An impermanent goal also means more de novo generation of consolidation needs.

Level 2: Consolidate between our system and our model. Which model of our system is accurate and relevant to our permanent goal, that we can build with the means at hand? This is covered with the refinement of RRFs. Notwithstanding the permanence of the RRFs and their constitutive attributes, a permanently accurate, current and thorough model and data of all parts and aspects of the system should be sought.[5]

Level 3: Consolidate between the stated subgoals and the permanent goal: Is the entire permanent goal and only the permanent goal being covered and are the subgoals' boundaries across time and the depth and shape of aggregation coherent relative to culture, human attachment/horizon, capabilities, functions, and resources?

Level 4: Consolidate between programmes and their stated goals: Do the observed structures and processes and their timings, like actions, rules, the informational status and flows (including actors' awareness of their full range of choices), measurements, enforcements, decisions, as well as the initiations and terminations of these, sustainably bring about all of the targeted outcome and only the targeted outcome? From here, return to level 3 until level 4 is consolidated before the completion of level 3.

Level 5: Consolidate among programmes (therefore also sub-programmes): Does any further consolidation potential remain? Rectify along the consolidation dimensions. From here, return to level 4 until level 5 is consolidated before the completion of level 4.
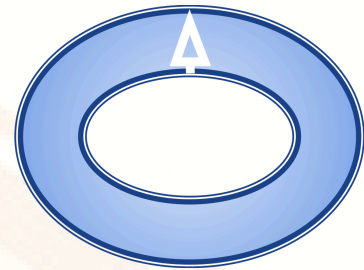
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[5] Including (a note about points 2 and 3: interfaces multiply models of parts of the system, which is a factor in optimization, and may multiply the effort required to maintain consistency):

1. The impacts of stimuli of faint, sparse or dispersed (in time or across the functions and agents) nature, although these make the boundaries of sets of actions that have an aggregate outcome difficult to discern;

2. Non-actionable interfaces at preponderant boundaries in the system as well as any needed transpositional interfaces (like the personalization process described in the "Storytelling Automation Principles" that I published in 2021);

3. Actionable interfaces, enabling the reconfiguration of the functional topology, such as the multiplexing of any flows crossing the interface or the modification of structures in the modeled part of the system.
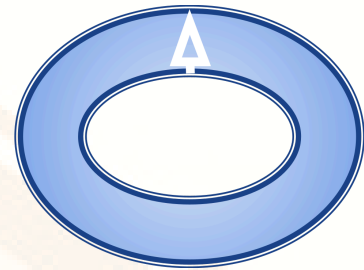
At levels 3-5, consolidation is done by intervening along the **consolidation dimensions**:

1. **Obsolescence of assumptions**.
2. **Fallacies**.
3. **Biases**.
4. **Redundancies**: Multiplication is not considered redundant when present for robustness, agility or scientific proof purposes. Consolidation requires a designed complexity that creates robustness and manageability rather than fragility. There should not remain any logical simplification potential toward a more advantageous design. **Appropriate redundancy** would be:
   a. **Proportional**: There is a clash between the robustness that redundancy would provide and any established superiority, within its attributed role/function, of one of the redundant applications/solutions/alternatives over another. The side effects of the superior solution will create an imbalanced strain on the system that one or more redundant solutions running in parallel, although inferior from the average function point of view, may help reduce. The iterative process of side effect coverage may be eased by using such redundancy early on;
   b. **Strategic**: A well balanced strain may help maintain or raise the ability to seize useful options or reduce the threshold of option access, but one solution may close options for all, too. The selection of redundant processes should therefore identify which side effects and which options exactly are the most relevant in relation to the outlook, and base policies on thorough evaluations;
   c. **Corrective**: Processes rectifying errors of other processes in the same roles/functions;
   d. **Completive**: Processes filling the gaps of circularity pathways of other processes in the same roles/functions;
   e. **Symbiotic**;
   f. **Differentiated**: Carrying a different susceptibility and responses to the various possible shocks;
   g. **Proving**: For science, which itself is subject to consolidation; and/or
   h. **Nimbling**: For agility, in the vein of the criticality hypothesis of the brain function.
5. **Timings**: The relative timing of events changes the starting point of downstream processes, thus changing the outcome.
6. **Orthogonalities** of risks.
7. **Synergies**.
8. **Capitalisation** on acquired knowledge/experience/assets/capabilities. This works directly against the incompleteness of knowledge horseman, and for the conservation RRF. The question of knowledge is ubiquitous.
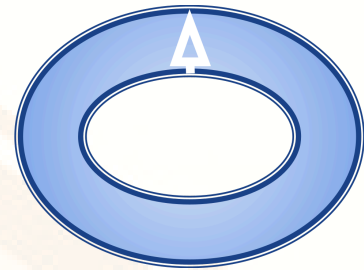
9. **Other gaps**: Between action rationale and action outcome, between stated goal and action rationale, between stated goal and our system.
10. **Drift** through process loopholes: small or powerful divergence from goal(s).
11. **Incoherences**/contradictions, with special attention to orthogonal programmes:
    a. Loopholes[6] in the case of rules[7], and similar lacks of integrity in other objects of consolidation;
    b. One programme undoes or misconfigures the outcome of another, thus requiring the modifiction of the latter (respectively its strategy, whereby if it doesn't modify its strategy, it will have modified its de-facto goal) or an additional corrective action;
    c. One programme hinders or blocks another - with the exception of useful competition on contributions toward the goal;
    d. One programme uses up or renders unusable some of another programme's or the own assets, for reasons like misallocation;
    e. Competition on same resources where not for alignment with the permanent goal;
    f. A programme parasiting another (whereby parasiting may, or not, be part of a symbiosis);
    g. Indirect impact on resources that some programmes need and others don't or otherwise impact on the system in a way that some can deal with but others can't.
12. **Upstream inconsistencies** (there isn't any case of return to level 3 because the thought process of levels 4 and 5 doesn't directly interact with the permanent goal) tapped into, possibly fortuitously, outside of the corresponding consolidation levels:
    a. An action doesn't match the stated goal (return to level 4 if you are at level 5);
    b. The system is mismodeled (return to level 2)
    c. The goal is incoherent relative to the system it applies to (return to level 1).

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[6] Internal incogruences and erroneous assumptions of the rules in question, as well as a mismatch between the topology of the system the rules apply to and the rules themselves can bring about loopholes which can be exploited when the drive to do so exists. It is conceivable that an actor would end up in a loophole without intending to either.
[7] An analysis of consolidation for rules exists, and is not included here as this document is quite heavy already.

In our actual case, where the **starting point is not a blank slate**, there arise further potential consolidation needs and hurdles regarding the following, notwithstanding that as rules that would otherwise be created from a blank slate may involve some of the same ab initio:

1. Obsolescence of organisational structures. (Consolidation level 3)
2. Failings in the capitalisation on acquired knowledge/experience. (Consolidation level 3)
3. Loopholes in the case of rules, and their pendants in other local objects of consolidation. (Consolidation level 3)
4. Erroneous assumptions and internal incogruences of the rules in question, as well as a mismatch between the topology of the system the rules apply to and loopholes brought about by the rules themselves, loopholes which may be activated intentionally or unintentionally. (Consolidation level 3)
5. Instable or divergent limit of the regulated object taken together with its rules (Consolidation level 3)
6. Consolidation becoming too heavy a task to be implemented due to the opacity, complexity or uncharacterizeability of existing rules. (Consolidation level 3)

And in the case of an effective/**operational reshaping** of rules following a consolidation exercise:

1. **Transient creation of losses of integrity** among rules, which would it that window be exploitable or create disruptions of activity in the system;
2. **Reintroduction** of any of the above listed and inefficiencies due to an incomplete consolidation or implementation.

Consolidation is also applicable to a design **from scratch**, conceptually applied to human functions to obtain a clear structure to build upon and used at each step of the development in the direction of the permanent goal.
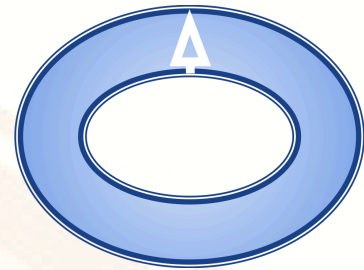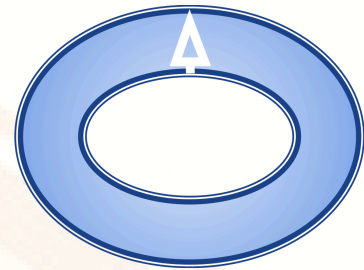
The following figure shows how the above comes together, forming **the oval** view of our predicament: the room for advancement is dynamically given by the requirements of the vital values, empowerment and strategy functions on the one hand, and modulation functions on the other. Evaluation and deliberation are not RRFs but features of the process:
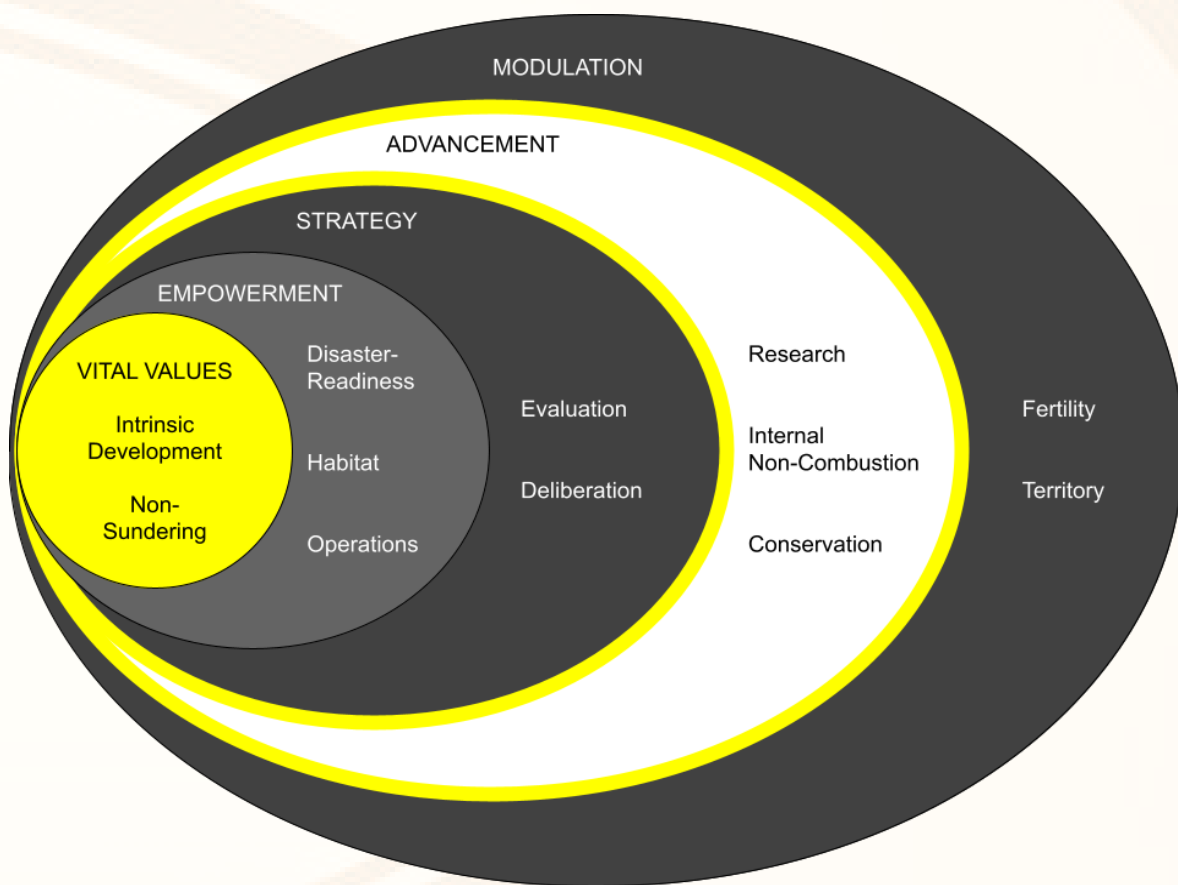

A notable fallacy

Our current governance, in its very attempt to change, starts out with in-the-box self-restrictions that make it impossible (yet this we must overcome) for a truly useful approach to get initiated or to take hold. In doing so, it perpetuates the processes that brought us to such a difficult and problematic situation as today's, be it in a belief such as that of the absence of an alternative or of this being a phase after which things get better with the endless help of innovation and creativity in our current directionality, whereas the awareness of RRE as an approach and of the margin problem itself, perhaps notably of the risk arrow, provides the insight that these beliefs are erroneous: human potential after each
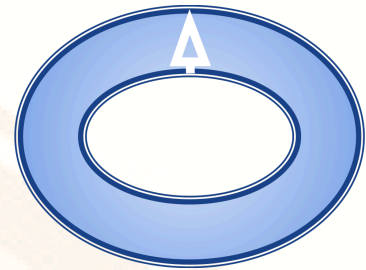
such phase is greatly reduced, as depicted in the following figure through a series of Warshaw circles representing each such cycle, with sizes shrinking similarly to the rising frequency of oscillations in a single Warshaw circle:
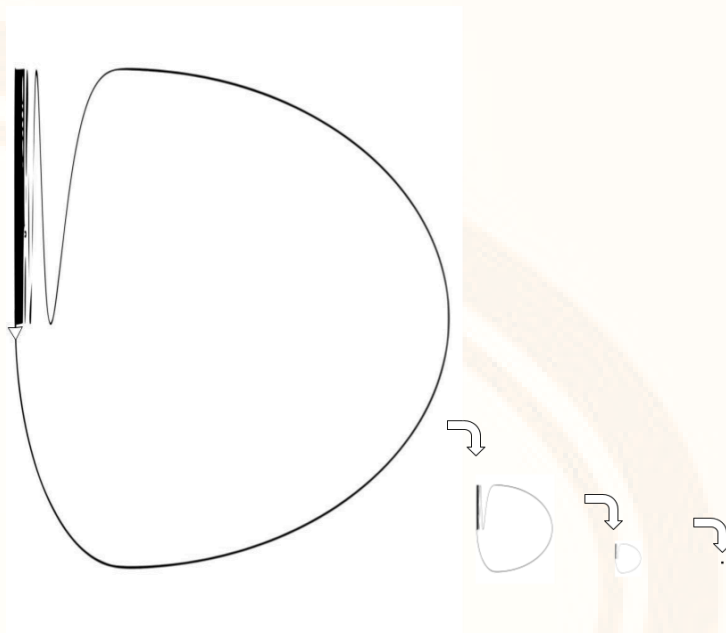

This can also be visualized in the following manner[8]:
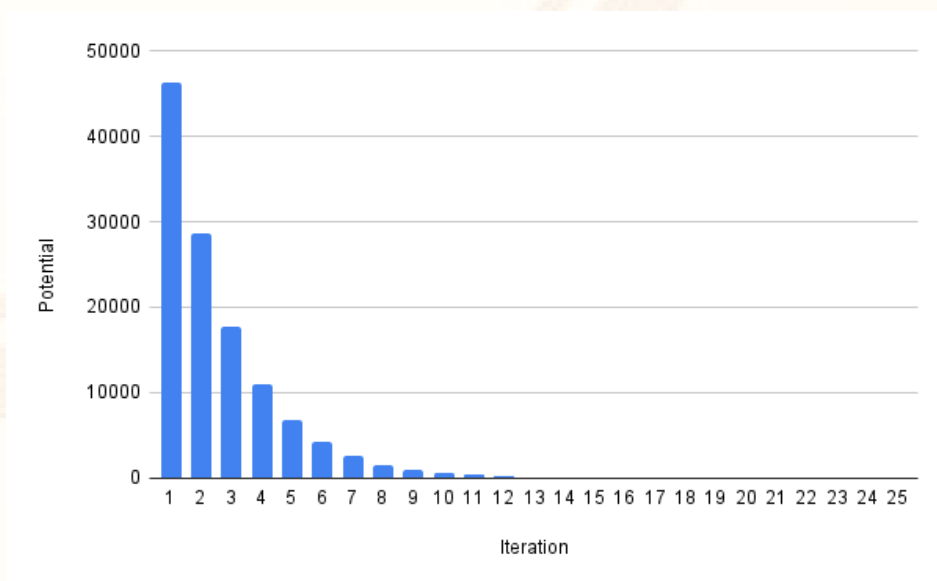
[8] The potential scale is only qualitatively indicative, or without units.

The Warshaw circle is used here because the **container model**[9] **of the economic cycle** yields a view of the cycle as seen from one container across time that, in a reiterating apocalyptic paradigm, will look exactly like the Warshaw circle:

Economic activity as seen from a container

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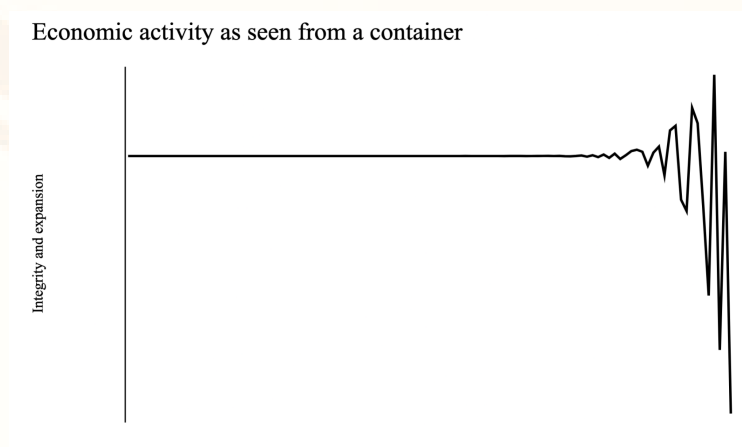
[9] Undesirable side effects of economic activity, from a structural or topographic point of view, feed back into all agents and factors involved. The container model of the economy describes these as leaky and interlinked fluid-holding containers in a non-homogenous gravitational field, respectively with pumps between containers, that get damaged and damage adjascent containers depending on their capacitive state and their flows, whereby the breach of the structurally encapsulating containers entails where possible evolutionary modifications if not scavenging among the there encapsulated containers, until the most encapsulating breaks, point where survival or restructuring becomes impossible and the remainders of the system terminally collapse. The containers represent items involving capacity, inventory and the structures needed to fulfill all functions as defined by the Resilience and Robustness Factors (RRFs). The lowest level container is the simultaneous viability of the habitat and territory functions. This model is representative of the margin problem. As in ecology, a container's status along time is a function of all containers' statuses along time. None is independent. In this paradigm, the scalability of a business process is generally the definition of a market failure. "Sustainable" scaling actions can only be short term in a way that is tailored to the topology of the overall system. Such would be the introductory phase of the deployment of the RRE process, or a phase of human expansion. In other words, functionally, what is outside of a container can be computed as being inside of that container. The Gross Domestic Product (GDP) fluctuation is a function of the degree of fullness of the respective containers defined by the concept of GDP.
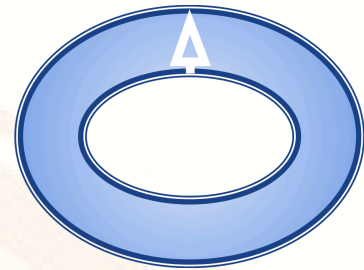
Founder bio

Alève Mine is the first advisor on risk recursion, the risk arrow and the
Resilience-to-Robustness Equilibrium (RRE). She holds a MSc degree from the EPFL in
micro-engineering (robotics, automation, nanotechnology, chips, sensors, materials, lasers,
signal processing, production lines, etc.), a finance diploma (financial analysis, valuation)
from the St. Gallen Management Institut (SGMI), and was 2011 laureate in media technology
and telecommunications at the International Telecommunications Union (ITU-T).
In 2015, she founded the Zurich AR/VR Meetup (keyword "the metaverse") which was
named Key Swiss Player in the field on the GDI Gottlieb Duttweiler Institut map (2017). She
is author of three books -- The Margin Problem (forthcoming in 2024), Storytelling
Automation Principles (2021), and the science fiction novel The Premise (2012) under the
pen name Solomon Batelberg.

What this takes and some of my concerns about the implementation:

Right now, in the international and global governance field, this requires from delegations,
even leaving aside the many technicalities, considerable effort to deeply understand the
significance of the margin problem and the so to say mechanical, uncircumventable
necessity of RRE.

Extensive conversations will eventually be required in order to carefully scrutinize the
proposition and explore approaches to its implementation in a way that is practicable for
all. Given the nature of RRE of mirroring our de-facto system, these discussions should
mostly have the character of a collaborative study rather than of a negotiation.

What will need minute planning and our undivided attention is functional integrity,
including economic stability, until the full implementation is reached - and beyond, as all
evolution is a transition of some degree. However, considering the current or the probably
upcoming state of the world, turmoils or crises will reasonably not quite be attributable to a
possible implementation of the RRE process should the case be.

On the one hand, discussions on the global governance front are motivated by varicolor
dependencies and not by a thorough view of the human system, and on the other, the ever
tighter net of dependencies makes an implementation of separations of powers ever more
difficult. It is proposed to systematically provide an in-depth disclosure and to proactively
discuss the impact of one's dependencies on one's position or action on each subject.
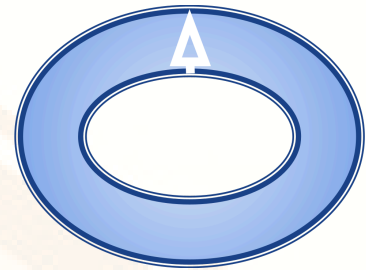
The ideal implementation of RRE is universal: a collaboration on the building and implementation of strategies past any geopolitical or technical fragmentation. Today's geopolitical landscape where states are typically building capacity for possible or plausible kinetic wars provides time to design and prepare the technological platform and procedures of the RRE process, such that it is ready to use when an appropriate window becomes available, be it within a fragment.

The prevention of an unintentional drift or capture away from the initial purpose will also be a concern. My complete and accurate communication of the project's design and raison d'être to all matters also because I can neither intervene everywhere nor forever but the process must become universal and must be maintained. In addition, as - although the process includes building scenarios without computational simulation where available with the help of heuristic insights from prior computation - the strongest phenotype of RRE implementation involves considerable tech, building an internal tech capacity and arrangements with existing actors without a drift or capture from the start is a challenge.

Repetitive communication of the significance of the margin problem and of the reasons for the need for RRE and for a continued broad engagement with it will be required, considering how unknown the margin problem has been until now although it was always right in front of us, and how deep-seated it is.

A non-implementation, for any reason, including an unavailability of the attention of representatives to follow up due to the current intensity of affairs, and a pre-exhaustion of potential funding through investments being currently drummed up worldwide for other use, should be our biggest concern today.

Disclaimer: