

Resolving the Gaps and Conflicts that Prevent Theoretical Models of Science From Being Practical and Executable in the Field

Eugen Oetringer¹, Arti Ahluwalia¹, Jean-Paul Close¹, Michael Fitzgerald¹, John Scholtz¹, James N. Rose¹, Marion van den Eijnden¹, Elly Rijnerse¹, Geert Degrande¹



Climate Change



Biodiversity



Health Services



Conflict



Bureaucracy



SUSTAINABLE DEVELOPMENT GOALS

Initiatives waste their time and resources on overcoming mountains of obstacles

Available solutions of the high(est) impact get stuck in the system by default

Our long-standing approaches to solving the growing problems we face failed us

An enormous solution potential is waiting to be unleashed
Bureaucracy and fixed ways of thinking prevent us from unlocking it

Ban Ki-moon, Former UN Secretary-General, The Elders newsletter³. March 1st, 2024:

"We need to see an urgent change of direction in global decision-making"

Urgent Call from The Elders and Future of Life Institute⁴

Signed by Ban Ki-moon, 9 former Heads of State and 2 + 7 Nobel Peace Prize Laureates. February, 2024

"Calling on world leaders to show long-view leadership on existential threats"
"Our world is in grave danger. We face a set of threats that put all humanity at risk. Our leaders are not responding with the wisdom and urgency required."

1. Introduction

Trust in our models, best practices, leaders and institutions is falling rapidly. Large groups have learnt to intuitively recognize when new attempts contain too much of the same thinking that created the problems.

A fresh approach resolving the gaps and conflicts in standard approaches was required. It resulted in key practices for finding effective solutions to complex problems under the Law of Nature Manifesto initiative (www.lon-manifesto.org).

2. Method

A new method had to be developed. Key elements became:

Intervention

Intervening where the highest impact can be made at the lowest costs and risks

Practices and solutions that facilitated the delivery of needed results after standard approaches failed

What delivered the needed results across industries, fields or subjects

Across industries, fields and subjects, the same Laws of Nature, often available from physics, mathematics and engineering, emerged as the primary intervention possibilities

Implementation

Keep what works well

Let go of the long-standing approaches that failed us

Complement what works well with what has demonstrated needed results after our long-standing approaches failed us

Applicability

Whenever an environment or challenge is complex

Across industries, fields and challenges

Key Practices

1. Apply the Tipping Point Law of Nature to make Laws of Nature from physics, engineering, mathematics and other fields executable for complex matters
2. (Re-)integrate relevant Laws of Nature in decision-making, research, innovations, projects and so forth
3. (Re-)integrate Einstein-Newton-Darwin practices into decision-making by provisioning complementary research and innovation tracks²
 - Let go of the thinking that created the problems we face
 - Go straight to the system level
 - Step out of the box
 - Seek simple rules at the system level
4. Listen to
 - What decision-makers truly need to solve the growing problems
 - What employees truly need to do their jobs as expected
5. Is the method, initiative, project, strategy, etc. practical, executable and durable?

After 2+ decades of solution attempts ...

The only solution left and powerful enough to solve the existential threats we face may be

the (re-)integration of

Relevant Laws of Nature in Decision-Making



3. Making the Method executable: The Law of Nature Manifesto

M
A
N
I
F
E
S
T
O

A Package of Simple but Complementary Solutions

- The package ...
- Intervening where the highest impact can be made at the lowest costs and risksTM
 - As simple and brief as possible
 - Complete enough to get projects over the Tipping Points where they become executable and their solutions durable



www.lon-manifesto.org

M
A
N
I
F
E
S
T
O

Part 1: The Introduction (including first Law of Nature)

Part 2: The Second Law of Highest Impact

Part 3: Intervening Where the Highest Impact Can Be Made at the Lowest Costs and RisksTM

Part 4: Getting Started

3.1 Practices Which Break Trust Versus Practices Which BUILD Trust

3.2 Intervention Points of the Highest Impact

3.3 One Word to Make Better Decisions and Reduce Bureaucracy Drastically

3.4 How Simple Solutions to Highly Complex Problems Can Be Found

3.5 Core Human Values and Essential Behaviours

4.1: Overcoming Transformational Obstacles

4.2: Calls for Educational Needs and Pilot Projects

4.3: A Collection of Hard-to-Ignore Guiding Questions (document)

6. Conclusions

- Intervening where the highest impact can be made at the system level guides to highest-impact solutions
- Laws of Nature from physics, engineering, mathematics and the like become executable for complex matters when the Tipping Point Law of Nature is applied
- To solve the growing problems we face, complementary innovation, research and decision-making tracks are required urgently
- These tracks must be designed such that they are beyond the Tipping Point where available solutions of high and the highest impact get through the system with reliability

4. Project Opportunity⁵

From September 2022 to August 2023, relevant Manifesto elements were applied at ZIT-BB, a state agency providing data center services to the Ministries of Brandenburg State, Germany.

Project goals

- The data quality in the Configuration Management Data Base (CMDB) had to be improved
- The capacity bottleneck of the data base expert had to be reduced

Complications

- Missing: lessons learned, relevant Laws of Nature and associated guidance in the Best Practice's documentation
- The manual effort to maintain the data was too high
- The environment was heading towards crossing a Tipping Point. It would change more quickly than the CMDB could be updated
- A capacity bottleneck had developed for the CMDB expert

Solution Needs

- The number of obstacles when updating the CMDB manually had to be reduced drastically
- The approaches had to be practical and executable
- The primary approach had to intervene where the highest impact could be made with the lowest costs and risk

Key Performance Indicators (KPIs)

- The risk of too much focus on KPIs and insufficient focus on obstacles was reduced drastically by listening to employee reactions, two Laws of Nature, how obstacles were reduced and visible improvements in the CMDB

Practices Avoided	⇔	Practices Applied
'Loaded' expressions: control, quality assurance, process, Best Practice, method, definition and theory	⇔	Instead of quality assurance, 'updating the CMDB' was used
Demanding compliance	⇔	Listening to the specific situations and what people truly needed
Training or coaching	⇔	Step 1: Normal coaching Step 2: Coaching with external experiences Step 3: Co-creation
Exact practices from engineering, physics and mathematics	⇔	Applying relevant Laws of Nature to complex, people and system-related matters
Missing relevant Laws of Nature	⇔	Applying the Tipping Point and Capacity Bottleneck Laws of Nature and their Flatten-the-Curve practices
Expectation of IT applications being user friendly	⇔	Explaining why IT tools for complex matters are user-unfriendly by default
Breaking complex matters into parts	⇔	Intervening where the highest value can be made at the lowest costs and risks A package with (simple) solutions for the whole

5. Project Results

- A structural reduction of bureaucracy and complexity
 - Lack of interest and resistance changed into interest, support and demand
 - Delivered without escalations and costly correction
 - A drastic reduction of time-consuming obstacles and non-productive activities during CMDB updates
 - A substantial number of updates, which could not take place because of too many obstacles, became possible and were done
- And most important
- A drastic reduction of the capacity bottleneck of the CMDB's senior expert
 - Positioning the CMDB to prevent passing the Tipping Point at which the environment would change more quickly than the CMDB could be updated, even with growing complexity

References

- [1] Law of Nature Manifesto Initiative. www.LoN-Manifesto.org
- [2] Confirmed by Einstein-Newton-Darwin researcher, Prof. Michael Fitzgerald. See also Manifesto parts 1 and 2
- [3] We need to see an urgent change of direction in global decision-making. Ban Ki-moon. The Elders. March 1st, 2024. <https://theelders.org/news/we-need-see-urgent-change-direction-global-decision-making>
- [4] Open letter calling on world leaders to show long-view leadership on existential threats. The Elders. February 2024. <https://futureoflife.org/open-letter/long-view-leadership-on-existential-threats/>
- [5] How A Fresh Approach Led to a Structural Reduction of Bureaucracy and Complexity. E. Oetringer. ComDiS. 2023. <https://www.lon-manifesto.org/downloads/A%20Fresh%20Approach.pdf>

Contact Information

Email: info@LoN-Manifesto.org
Web: www.LoN-Manifesto.org
© 2024 by Law of Nature Manifesto Initiative
™ Trademark of the Law of Nature Manifesto Initiative
May, 20th, 2024

Photos via Pixabay.com and Unsplash.com by

Adam Derewecki, Markus Kammermann, Anja, Mathew Ball, Dulana Kodithuwakku, Mariann Szöke, Maria Saveleva