



THE POST COVID-19 WORLD IA MILEVA ANALYSIS ON ENVIRONMENTAL CHANGES AND RISKS

Opportunities and challenges

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Analysis carried over two time sequences :

- April 2020 to December 2021
- projection to December 2030

The question asked : "Post-COVID-19 world"



ADVANCED ARTIFICIAL INTELLIGENCE SYSTEM

Mileva is an advanced artificial intelligence type thinking machine. It is based on information theory, actor-network theory, the quantum approach of probabilities, which makes it possible to introduce the notions of uncertainty, informativeness and unpredictability by extending to the measurement of risk, informative background noise and communication efficiency.



METHODOLOGY

Describe the universe we want to study with its different components and actors : the agents. Based on this description, Mileva searches for information on all public data on the Internet and builds a knowledge base without language barriers. A question is associated with this specific library and the universe described. The agents will then act and react in interaction.



SOME REFERENCES

Business Intelligence firm; Private banks; Airline company; United Nations (Sanctions Committee to the Security Council); MIT (department of cyber international relations); Geneva Centre for Security Policy, Nasa Symposium...

POST COVID WORLD : ENVIRONMENTAL TRANSFORMATIONS AROUND 2021

No indication of a major change

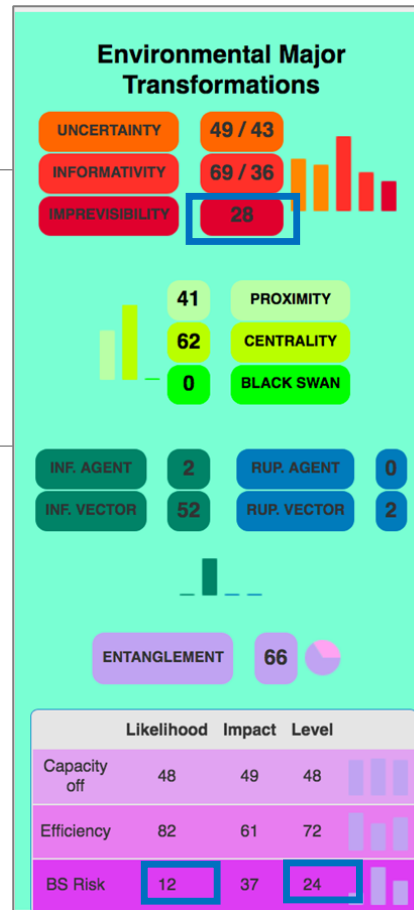
According to IA Mileva, The post-COVID-19 world is not threatened with environmental disturbance :

- A very "hypothetical" likelihood (12/100)
- A low post-COVID-19 disruption capacity (28/100)
- And a more than moderate risk level (24/100)

Influence relationships around December 2021 1/2

The concept of "environmental change" influences a set of actors

- Science
- Environment
- Economy
- International relations
- Societal issues
- Law



Influence relationships around December 2021 2/2

"Environmental changes" undergoes only 2 influences

- Tax policies
- Constitutional and administrative law

Opportunities

- Develop scientific and technological cooperation
- Rethinking mobility in the countryside and cities
- Renewing the relationship with citizen-consumers

Challenges

- Technological innovation
- Unlock funding for the sector
- Strengthen dialogue with civil society

POST COVID WORLD : ENVIRONMENTAL MUTATIONS AROUND 2030

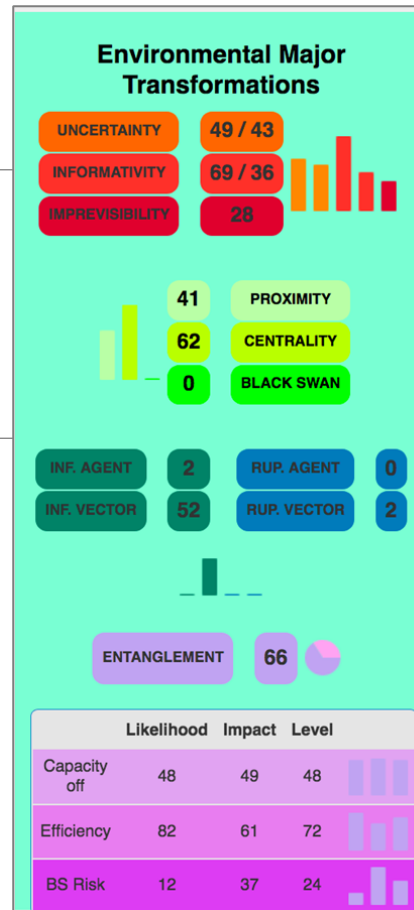
No indication of a major change

The issue of “Environmental change” is not really central also for the projection at the end of 2030, even if they agents take it into more account.

Influence relationships around December 2030

By 2030, “Environmental changes” are subject to influences, grouped into three categories:

- Scientific agents
- Major economic players
- Regions of the world (Australia and New Zealand, Southeast Asia, Caribbean, Latin America, West and East Africa, Middle East)



Opportunities

- The combination of basic research, media work, via information or entertainment, and the industrial world highlights possible cooperation around a major issue.
- Develop new business with regions of the world very affected by climate change.

Challenges

- Encourage “Coopetition” (circumstantial cooperation with competitors).
- Find the right forms of communication (ex film)
- Make the electric mobility industry sexier

FOCUS ON A HIGH PROBABILITY OF A MAJOR CRISIS : ENERGY 1/2

“Environmental risks” and “Pollution” a high probability of major crises

These 2 agents are linked to each other and interact with the “Food” agent and the major banking, insurance and commodity brokerage companies.

“Energy” : Sector most affected by COVID-19

- **The fossil fuel market** has suffered the collapse of transport, especially air market.
- **The electricity market** with reduced consumption due to the contraction of economic activity.
- **Renewable energies** whose demand is on the rise due to an environmental concern correlated to the health crisis.

This impact & the critical dimension of Energy will continue

- 71% probability of a major rupture event
- 79% likelihood of this event
- 71% risk level



Not enough agents are aware of the possibility of a major energy crisis

- The possibility of a major energy crisis is not enough taken into account by other agents.
- "Lack of integration" of this essential data - confirmed by a level of interest with all the agents at the outer margins of the first circle of actors: 45/100 in 2020 and 31/100 in December 2030.

Opportunities

- Contribute to the ambitions of the energy transition while reducing energy dependence.
- Accelerate the reconfiguration of the energy market (production, distribution, consumption)

INFLUENCE RELATIONSHIPS & RISK SIGNALS SENT TO THE ENERGY AGENT

Influence relationships & risk sent to Energy

- **Transport and logistics**, tourism, hotels and restaurants, retail, temporary work;
- **And their social corollaries** : employment, unemployment, precarious workers.

Emerging element of rupture : telework

Vector of influence and transmitter of a rupture signal, teleworking is not enough taken into account by the agent "Energy"

if teleworking becomes the rule where possible, or at least an extended practice - is likely :

- To lead to a change in household energy consumption;
- To increase energy footprint of the web;
- To reduce travel-related expenses;



Do not forget the social challenges

- Others break signal transmitters : bankruptcy and social policy;
- "Precarious workers", "Natural law" and the UN linked, show the fact that energy is one of the fundamental foundations of our societies;
- More integrate the UN Development Goal 7 : universal access to energy by 2030.

Opportunities

- Develop ambitious and sustainable economic recovery plans;
- Developing Inter-Business Solidarity;
- Propose North-South cooperative models Win-win
- Rehabilitating the new poor at bottom of economic pyramid.