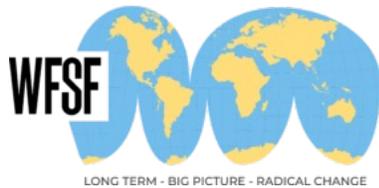


# WORKSHOP REPORT: "Scenarios and Narratives for the 21st Century"



WFSF 25TH WORLD CONFERENCE  
PARIS, OCTOBER 27, 2023

2100 Foundation /  
Société Française de Prospective /  
Plurality University Network

# THE INVITATION

"How will human societies evolve in the rest of the 21st century? In spite of how “VUCA” or “postnormal” our world appears, are we able to tell the story (or rather, stories) of this century? We’d like to try it with you!

In 1990, the French ministry of Research published 2100, a “narrative of the coming century”. While the idea of a single narrative seems quaint nowadays, exploring what very long-term foresight can do for us remains a useful task.

How will this highly participative workshop unfold?

Think of it as a mechanism for creating storylines of which we are both protagonists and authors.

The storylines will be centered around bifurcations – decisions (or the absence thereof) that alter the course of history for a whole community.

Before that, we’ll discuss catalysts – trends, emergences and risks that make change (but not its results) certain. We’ve prepared a few, but you can bring your own.

Then we’ll choose an initial bifurcation. Unsurprisingly, the initial one will have climate change at its core, however responding (or not responding) to it can take very different forms. Several groups will explore these differences.

Having told the stories of this initial bifurcation, we’ll pause around 2040 and take stock: what do our worlds look like as a result?

And more interestingly: what are the important issues then, and what new bifurcations are ahead of us?

We hope this experiment will generate common knowledge, both on the choices ahead and on the possibilities and challenges of long-term foresight."

# THE WORKSHOP'S METHODOLOGY (1/2)

Link to full process description (click ☰ then “Ouvrir tout”) :

<https://app.modulo.io/event/1696178305708x945669040620175400>

10:00 ⌚ 10	<b>Introduction</b>	D ? 🔊 Plénière	Accueil
10:10 ⌚ 5	<b>Division into subgroups</b> Each subgroup is allocated one Bifurcation.	👥 Sous-groupe	Inclusion
10:15 ⌚ 15	<b>Introductions via characters</b> Participants choose characters from 2050 and introduce themselves as such	👥 Sous-groupe	Inclusion
10:30	<b>1. THE PAST (2024-2050)</b>	⌚ 50 ☰ 2	
10:30 ⌚ 35	<b>The First Bifurcation</b> Discover the bifurcation and reflect on the changes it has meant	👥 Sous-groupe	Production
11:05 ⌚ 15	<b>2025-2050 Timeline</b> Recount the history of the Bifurcation	👥 Sous-groupe	Créativité
11:20	<b>2. THE PRESENT (2050)</b>	⌚ 20 ☰ 1	
11:20 ⌚ 20	<b>Subjective Description of Our World in 2050</b> From you character's POV, describe glimpses of the world in 2050	👥 Sous-groupe	Créativité
11:40 ⌚ 15	<b>Break</b>		Pause

# THE WORKSHOP'S METHODOLOGY (2/2)

11:55	<b>3. THE CHOICES AHEAD (2050-2075+)</b>	🕒 60 ☰ 2
11:55 🕒 25	<b>Key Challenges and Opportunities for Our Futures</b> Identify the challenges & opportunities requiring major collective choices	👥 Sous-groupe <b>Créativité</b>
12:20 🕒 35	<b>The Next Bifurcations (2050-2075+)</b> Identify and describe the major Bifurcations ahead for us in 2050	👥 Sous-groupe <b>Créativité</b>
12:55	<b>SHARING</b>	🕒 5 ☰ 1
12:55 🕒 5	<b>Exhibition: Each group displays its findings on the wall</b> Focus on the sheets describing 2050 and what follows	📣 Plénière <b>Synthèse</b>

# THE WORKSHOP'S BIG ASSUMPTION: IN 2050, THE WORLD HAS MANAGED “DEEP SUSTAINABILITY”!!

*“Our world in 2050 has largely been shaped by a Bifurcation that took place somewhere between 2025 and 2050: <Name of the Bifurcation>. Due to this dominant choice, the world is nearing a state of "deep sustainability", where global warming and other ecological crises have stopped getting worse because we have reached "net zero" greenhouse gas emissions. This doesn't mean we are not living with the consequences of what happened before 2025, but still: a major change has taken place.”*

Therefore, participants were given one of two “Bifurcations”, both leading to the same state of “deep sustainability”: ‘Alter-Development’ and ‘Eco-Modernism’. The whole workshop evolved from this initial context.

Why?

1. Because the stories of what happens if we don't manage this transition are abundant, there was no need for new ones.
2. Because we wanted to explore path dependency, i.e. focus on *how* such a massive transformation was achieved in such a short time; on what the resulting world of 2050 looked like; and on what new choices its inhabitants felt they had ahead of them.

# Group 1: "Alter-Development" Transition

Facilitators: Juliette Grossmann & Chloé Luchs

# BIFURCATION #1: ALTER-DEVELOPMENT (*input given to the group*)

This Bifurcation rests on a fundamental choice to transform consumption and production modes in order to drastically reduce carbon emissions, as well as all other factors of environmental degradation. It focuses on qualitative growth over quantity and values.

Fossil fuels have been quickly and aggressively phased out, in part replaced by renewable energy sources. The high economic cost has been compensated in part by developing new activities (dismantling of oil-dependent industries and reallocation of their assets, rewilding...), in part by social measures: reskilling, lower working hours, universal income in some places. Activities such as caring for vulnerable relatives or neighbors, community education or farming, are now recognized as work, granting social rights. These measures, as well as highly progressive taxation of income and wealth, have significantly reduced inequalities.

Innovation, especially in technology, is subject to systematic social and environmental impact assessment. The priority is improving existing solutions or developing low-tech ones.

Sobriety in all aspects of life is encouraged, valued, and sometimes mandated. Goods are expected to last long, be repairable and fully recyclable. People and goods move less, especially over long distances. Economies have relocalized and become as circular as possible. People eat much less meat and industrially transformed food; most food is grown locally. Living spaces are smaller, with more shared rooms and facilities (kitchens, laundries...)

Local communities tend to be smaller, more autonomous, and to focus on solidarity and resilience, both in order to adapt to the consequences of climate change, and to provide for everyone's basic needs. Strong social pressure keeps desires in check. Participation in collective chores (damming, maintaining infrastructure, growing food...) is mandatory in many places.

Highly participatory local governance coexists (somewhat uncomfortably) with strong, sometimes authoritarian governments at national or continental levels.

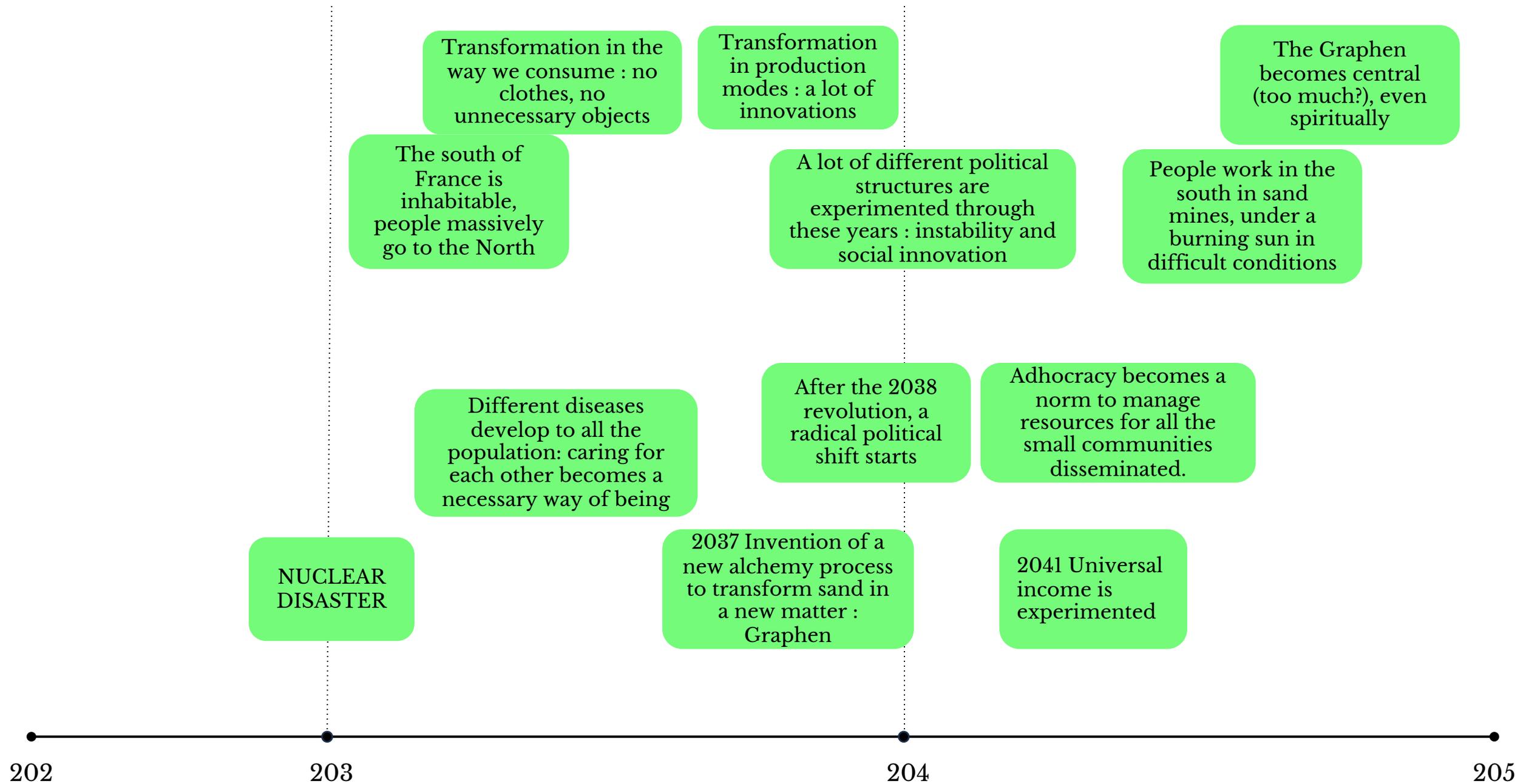
*The success of this model depends on reaching a **critical mass of people and organizations** willing to adopt the required “sober” behaviors.*

## *INDICATORS*

*(Reference: France; inspired by ADEME's 2050 scenarios)*

- Raw CO2 emissions: -85%.
- Energy consumption: -50% (renewables: 88% vs. 15% today).
- Meat consumption: divided by 2-3.
- Housing: zero new constructions; massive sharing; lower individual surfaces.
- Space: de-metropolization towards medium & small cities, land regeneration for natural carbon sinks.
- Mobility: -20-30% kms, 50% foot-bike (2024: 3%).
- Consumption quota & rationing for scarce resources.
- Carbon taxation, redistributive taxation.
- Strongly reduced international commerce.
- 70%-80% raw material for industry reused or recycled.

# 2024-2050: TIMELINE OF THE 1st ALTERDEV BIFURCATION



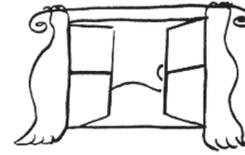
# OUR SUBJECTIVE "ECOMODERNIST" WORLD: Paris, October 27, 2050

*What do you hear around you?*



the sound of our clothes made of Graphene.  
Stories from the past, told during the storytelling circles

Workers in Graphen suits trying to clean



*What do you see through the window?*



*What do you smell?*

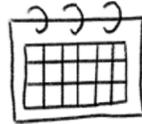
Little plants that we are trying to grow back in the Sand Bubbles Gardens.



*What are you eating, where, with whom?*

We eat locally, with our community. Vertical and inside farming.

The beautiful sun  
Magret de canard  
Good wine



*What do you miss or regret?*

*What is too scarce?*

Food, fun



*What is there too much of?*

Radiation, Nostalgia, Information...

Circles in the middle of the bubbles for storytelling of the past (to not forget)

*What does your habitat look like?*



Round habitat to live in communities "Bubbles" made of Graphen mainly.

We can write on the walls and it spreads through the walls of all the Bubbles

++ Cooperation, solidarity  
-- greed.

*What do you love or hate about this city in 2050?*

Graphen is beautiful but dangerous, some people see it as a god



*How do you move around?*

3D printing bicycles

# 2050-2075+: New existential risks for our SANDISTAN world

The second bifurcation is more about stabilization and equalization: celebration of human resilience through care and invention

## EXISTENTIAL RISKS

1. New waves of migration after the Great Migration that followed the Nuclear disaster complicates the social balance of the communities: sharing space, caring for each other when new people arrive all the time...  
How do we follow our slogan "Don't leave anyone behind?"  
Debates: do we leave these new population to create their own communities, or do we integrate them in the existing communities?
2. Great inequalities between Ancients and Youth that are mainly working in the South. Some ancients have lived very long lives (we don't really know why) and youth aspires to get rid of the nostalgia and build on new promises of life.
3. We gave up on individual emancipation for the sake of survival, but the conditions are becoming more and more viable (life is slowly coming back), and individualism becomes a political movement.

## ADAPTATIONS

- New aspirations of exploration to find out what has become of the inhabitable lands: find more space and resources to share: "Re-encounter you territory"
- Narratives of exploration thrives: under water? Space?
- Some Ancients change status: they can become independent wanderers to create link between communities and tell their stories. Like Samuraï Storytellers and Knowledge Sharers
- Education of skills of care are instituted
- The Adhocracy is reinforced and Youth is encouraged to take part in it

# Group 2: "Eco-Modernist" Transition

Facilitator: Daniel Kaplan

# BIFURCATION #2: ECO-MODERNISM *(input given to the group)*

The transition towards “net-zero” rests on a fundamental choice to privilege the intensive use of technology in order to [1] rapidly decarbonate energy sources while keeping energy supply at a high level (focus on renewables, nuclear and new technologies such as fusion and hydrogen), [2] reduce energy and resource consumption in all industries without reducing economic growth (“absolute” decoupling), and [3] massively develop and deploy Carbon capture, utilization and storage (CCUS) solutions. Technological innovation is therefore highly encouraged and valued, with very little control.

Financing such a concerted effort has required a high level of coordination and planning, bringing together governments and the private sector. A significant share of financing was directed towards emerging countries, which were both helped and coaxed into rapidly decarbonizing their respective economies – also resulting in putting these economies even more in control of (mostly) major Western and Chinese corporations. International trade remained strong.

One of the challenges was to avoid “rebound effects” that could nullify the gains reached through the use of technology. Digital technology and neuroscience were therefore also used in order to monitor and control the behaviors of people and organizations. Depending on local regulations, “Eco-unfriendly” acts can be punished by heavy taxes, public shaming and/or penal consequences. Offsetting (by investing in natural or technological carbon sinks) is however always an option for the richest.

In spite of the cost to privacy and freedom, the Transition was mostly accepted because it implied very little changes in people’s way of life.

Climate migrants with university degrees easily find opportunities in wealthy countries, whereas the others were encouraged to resettle in the new areas opened by climate change (Arctic, North Canada, etc.), which continue to be seen as ideal testbeds for new technological solutions.

*The success of this model depends on the **early achievement and massive deployment of key technological innovations** expected to support the needed transitions.*

## *INDICATORS*

*(Reference: France; inspired by ADEME’s 2050 scenarios)*

- Raw CO2 emissions: -50%.
- Energy consumption: -27% (renewables: 50% vs. 15% today).
- Meat consumption: -10-30%, complemented by synthetic proteins.
- Smart housing, smart cities, metropolization continues.
- Mobility: +15-30% kms, 10-30% foot & bike. EVs replace old cars.
- Free markets, low taxation, lightly regulated commerce.
- 45-60% raw material for industry reused or recycled.
- Massive investment in carbon capture, storage and reuse to compensate for excessive emissions.

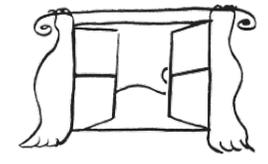


# OUR SUBJECTIVE "ECOMODERNIST" WORLD: Paris, October 27, 2050

*What do you hear around you?*



Protests happening somewhere out of sight.



*What do you see through the window?*



*What do you smell?*

The fallen leaves from the many, many trees.

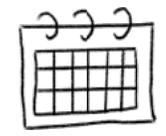
Mushy, though tasty 3D-printed food, occasionally flavoured by home-grown parsley.



*What are you eating, where, with whom?*

Produce from the underground baking scene.

That I chose not to have kids.  
The taste of chicken.



*What do you miss or regret?*

My parents who died in the Great Famine.  
My activist friends who... disappeared.  
Indigenous cultures.

*What is too scarce?*



*What is there too much of?*



*How do you move around?*

I mostly walk or use public e-scooters.

*What does your habitat look like?*



Not enough birds. The City of Light is alight all the time, chasing the last birds away.

*What do you love or hate about this city in 2050?*

# 2050-2075+: MAJOR ISSUES OF OUR TIME

*(They can be new issues, or old issues that were set aside during the 2024-2050 Transition)*

## EXISTENTIAL RISKS

1. The combination of suppressed (internal and international) tensions with infinite energy and powerful, accessible technologies: conventional and unconventional conflicts could have terrible consequences.
2. Vast wastelands in the zones made inhabitable by climate change become either rewilded, and home of weird mutations which may spread further; or inhabited by human groups *à la* Mad Max (see existential risk 1)...

## ISSUES

- The tensions over culture, religion, language, etc., mostly suppressed during the transition, are resurging
- Massive inequalities and exploitation:
  - Inequalities between tech-enhanced humans and others
  - Migrants in the “Polar States” (aka “Polistans”) become real-life social experiments, sometimes highly successful, sometimes failed. Yet, richer countries remain mostly closed to migrants.
- A world organized in zones of influence, with a multiplicity of “proxy wars” over resources, markets, strategic areas... Plus a number of “rogue states” benefiting from access to new military and cyber-tech.
- Extreme tech dependency creates brittleness.
- Spiritual crises: are humans gods, now? Or is it technology?
- New aspirations: space / ocean colonization, personal growth...

# 2050-2075+: THE NEXT BIFURCATION

**Reconciliation and Humanization:** After a "hard but necessary" transition, it's time to pause and address the sufferance it has caused.

**Slogan(s):** "Make Society Human Again" / "Make Humanity Safe"

**Media Headline:** "Global Spring is Here!"

**What we put above what:** People over Technology.

**What we gave up:** Meat; Destructive Competition.

**Key technology:** Empathy machines.

**Losers:** The Global North loses its position of power for the sake of global stability.

**Winners:** Everyone?

*The 2<sup>nd</sup>  
Bifurcation*

**Slogan(s):** "The Techvolution begins now"

**Media Headline:** "Potential Mars Habitat Successfully Test in Polestan" / "OceanX to Establish 1<sup>st</sup> Self-Sustaining Habitat in Mariana Trench – Stock Rises By 12%"

**What we put above what:** Growth over Equality. Tech over Humanity.

**What we gave up:** Some hippie concerns about justice.

**Key technology:** Empathy machines.

**Losers:** Menschlichkeit. The new Global South.

**Winners:** Tech Bros, new Global North.

**New New Frontiers:** The success of the transition calls for more. It has created powerful public-private mega-powers who are ready to direct humanity's evolution.

# Group 3: "Eco-Modernist" Transition

Facilitator: Jean-Eric Aubert

# BIFURCATION #2: ECO-MODERNISM *(input given to the group)*

The transition towards “net-zero” rests on a fundamental choice to privilege the intensive use of technology in order to [1] rapidly decarbonate energy sources while keeping energy supply at a high level (focus on renewables, nuclear and new technologies such as fusion and hydrogen), [2] reduce energy and resource consumption in all industries without reducing economic growth (“absolute” decoupling), and [3] massively develop and deploy Carbon capture, utilization and storage (CCUS) solutions. Technological innovation is therefore highly encouraged and valued, with very little control.

Financing such a concerted effort has required a high level of coordination and planning, bringing together governments and the private sector. A significant share of financing was directed towards emerging countries, which were both helped and coaxed into rapidly decarbonizing their respective economies – also resulting in putting these economies even more in control of (mostly) major Western and Chinese corporations. International trade remained strong.

One of the challenges was to avoid “rebound effects” that could nullify the gains reached through the use of technology. Digital technology and neuroscience were therefore also used in order to monitor and control the behaviors of people and organizations. Depending on local regulations, “Eco-unfriendly” acts can be punished by heavy taxes, public shaming and/or penal consequences. Offsetting (by investing in natural or technological carbon sinks) is however always an option for the richest.

In spite of the cost to privacy and freedom, the Transition was mostly accepted because it implied very little changes in people’s way of life.

Climate migrants with university degrees easily find opportunities in wealthy countries, whereas the others were encouraged to resettle in the new areas opened by climate change (Arctic, North Canada, etc.), which continue to be seen as ideal testbeds for new technological solutions.

*The success of this model depends on the **early achievement and massive deployment of key technological innovations** expected to support the needed transitions.*

## INDICATORS

*(Reference: France; inspired by ADEME’s 2050 scenarios)*

- Raw CO2 emissions: -50%.
- Energy consumption: -27% (renewables: 50% vs. 15% today).
- Meat consumption: -10-30%, complemented by synthetic proteins.
- Smart housing, smart cities, metropolization continues.
- Mobility: +15-30% kms, 10-30% foot & bike. EVs replace old cars.
- Free markets, low taxation, lightly regulated commerce.
- 45-60% raw material for industry reused or recycled.
- Massive investment in carbon capture, storage and reuse to compensate for excessive emissions.

# 2024-2050: REMEMBERING THE 1<sup>st</sup> BIFURCATION: WHAT HAPPENED?

## DECISIONS (*What? When? By whom?...*)

Assumes:

- Some sort of a democratic choice.
- A “pact” with the private sector.

## EVENTS (*What? When? Where?...*)

This transition, in such a short timeframe, is not conceivable without a major shock such as a pandemic, or the accumulation of climate-induced disasters or conflicts.

## INNOVATIONS (technological & otherwise)

(*What? When? By whom?...*)

Intensive use of AI/Neuroscience to convert the population to the new model (coordinated between government and private companies).

## SOCIAL & CULTURAL SHIFTS

(*What? Where?...*)

Rapid and deep consumer adoption of some changes in their way of life, due to existence of positive alternatives: phase-out of meat consumption, extended mobility without cars, etc.

## CONFLICTS (*What? When? Where? Between*

*who and who?...*)

## AT WHAT COST DID IT HAPPEN? (*and for whom*)

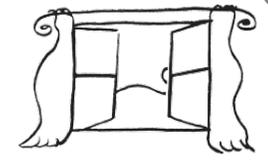
Democracy, freedom of choice, tolerance.

# OUR SUBJECTIVE "ECOMODERNIST" WORLD: Paris, October 27, 2050

*What do you hear around you?*



Many more "non-Europeans" in the streets.



*What do you see through the window?*



The smell of tropical vegetation.

*What do you smell?*

A sense of democracy, debates, tolerance towards the plurality of ideas and ideologies.

Robots in offices, factories, parks, aged people homes, etc.

Diversity. This a much more uniform world than 20 years ago.

Virtual reality, at least for young people.

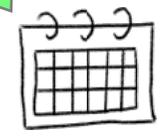


*What is too scarce?*

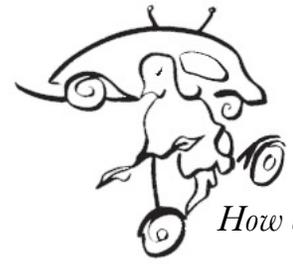
*What is there too much of?*



*What are you eating, where, with whom?*



*What do you miss or regret?*



*How do you move around?*

*What does your habitat look like?*



A fragmented, unequal society.

*What do you love or hate about this city in 2050?*

Much more bikes, much less cars.

# 2050-2075+: MAJOR ISSUES OF OUR TIME

*(They can be new issues, or old issues that were set aside during the 2024-2050 Transition)*

## EXISTENTIAL RISKS

- Cyber wars
- Pandemics
- Nuclear war(s) if multiplication of conflicts

## ISSUES

- Highly likely to evolve towards a society made of three types of citizens:
  - Adepts/users/victims of transhumanism ((rich or “guinea pig” minority)
  - A lot of people living with many artificial devices (organs, virtual realities, etc.)
  - Returning to nature (strong/significant minority)
- Climate-refugees everywhere
- Development of a new human species (use of biosynthesis, AI, etc.) by “garage” start-ups, with risks of proliferation of lethal creatures.
- Regulation of world affairs by new global networks, made up of mix of government bodies/business representatives/civil society bodies (such as IPCC) – UN-style organizations would have been obsolete or disappeared.
- Broad aspirations to new forms of spirituality (which ones?), but without progress of human “consciousness”.

# 2050-2075+: THE NEXT BIFURCATION

**A more democratic and equal world:** a softer path after the “forced march” of 2030-2050.

**Slogan(s):** *“Make our World Human Again”*

**What we put above what:** *People over Technology.*

*The 2<sup>nd</sup>  
Bifurcation*



**New leaps forward:** we’re all unwittingly embarked in another world highly driven by technologies (especially biotech).

Material and templates

*TRENDS / FACTORS OF CHANGE*

## PLANETARY BOUNDARIES OVERSHOOT

Rise of average temperatures (est. +2.5°C in 2050), loss of biodiversity, overuse of sweet water... Several boundaries that are the condition for the biosphere's stability have been passed. Their consequences will be felt in 2040 regardless of our action, however our action determines how much worse they can get.

*TRENDS / FACTORS OF CHANGE*

## RISING INEQUALITIES

After decreasing during the XXth century, inequalities within countries are rising again. The richest get much richer, the poorest a little less poor, while middle-class income is stagnating or decreasing. Gender inequalities are also proving persistent. Climate change is expected to increase inequalities even more, both within and among countries.

*TRENDS / FACTORS OF CHANGE*

## AUTHORITARIANISM ON THE RISE

Coups, "illiberal" governments and attacks on the rule of law in old democracies, decline in trust towards democratic institutions, nationalism... For the last two decades, democracy in the world has declined and authoritarianism – in many different forms – gained.

*TRENDS / FACTORS OF CHANGE*

## DEMOGRAPHIC SHIFTS

World population should reach about 10 billion in 2100 and then plateau or decline. Population in the "West" and most of East Asia will age and decrease, while India will plateau around 2080 and Africa will keep rising. Migrations will continue to rise, causing both cultural evolutions and tensions.

*TRENDS / FACTORS OF CHANGE*

## JOBS POLARIZATION

Job markets become polarized between high-qualification, high-paid jobs and low-pay, low-security jobs, while the share of "intermediary" decreases. Digital technology and A.I. push the boundaries of automation and could lead to massive job losses and/or re-allocation. International competition puts pressure on wages and contributes to polarization and inequalities.

*TRENDS / FACTORS OF CHANGE*

## A FINANCIALIZED ECONOMY

Between 1980 and 2020, international trade has grown twice as fast as GDP, and financial transactions 9 times as fast. A mostly unregulated "financialization" orients listed corporations towards short-term profits, increases systemic risks, fragilizes national governments, and increases inequalities.

*TRENDS / FACTORS OF CHANGE*

## TECHNOLOGY

A situation of “hyper choice” created by the convergence and rapid progress of “info [digital, AI], nano [materials], bio, cogno [cognitive/behavioral sciences]”...with myriads of applications in all sectors. Hence, on one side, a kind of hubris, emphasizing the potential of technologies to “solve humankind’s problems” as well as end humanity (“existential risks”); and on the other side, a deeper critique or “progress” and “techno-solutionism”, advocating new, ex ante control on technological innovation.

*TRENDS / FACTORS OF CHANGE*

## AN ENERGY SWITCH?

Renewable energies (solar, wind, etc.) become cheaper than fossil fuel-based ones (in the current geopolitical context). Nuclear (fission) power continues meeting resistance and tries to evolve (small modular reactors). The road to hydrogen technologies, and even more to nuclear fusion, is still long. From microgrids to smart grids, the management of more diverse energy systems is both a challenge and an opportunity.

*TRENDS / FACTORS OF CHANGE*

...

*EMERGING PHENOMENA & RISKS*

## GENDER IN FLUX

Feminism, LGBTIQ+ pride, intersection with other “minority” movements... And backlash against “wokism” / “western decadence”.

*EMERGING PHENOMENA & RISKS*

## ALT. EXCHANGE MECHANISMS

Crypto-currencies; search for alternatives to \$ and € dominance; Local currencies; Informal economies; Sharing economy; Criminal economies...

*EMERGING PHENOMENA & RISKS*

## NEW RELATIONSHIPS BETWEEN HUMAN AND NON-HUMAN LIVES

Protection of biodiversity; Attention to animal well-being; Veganism; Vegetarian and synthetic alternatives to meat and dairy; Biomimicry; Rewilding; Legal rights to natural entities...

*EMERGING PHENOMENA & RISKS*

## TOWARDS A NEW HUMAN SPECIES?

Artificial reproduction; Gene selection & editing; Cloning; Human enhancement (cognitive, physical); Brain-computer interfaces; Body-machine hybridization...

*EMERGING PHENOMENA & RISKS*

## MAJOR REGIONAL CONFLICTS

Competition between old and new superpowers; Nationalisms and authoritarianisms; Unsolved territorial issues; Militarization of terrorist and criminal organizations; Disputes over access to water and other scarce resources... And dwindling influence of institutionalized international bodies and dispute-resolution mechanisms.

*EMERGING PHENOMENA & RISKS*

## TECH GOES OUT OF HAND?

Generative and “super I.A.s”; Neuroscience; Genetic engineering and synthetic biology; Geo-engineering... From unintended (sorcerer’s apprentice) to intended (manipulation, warfare) effects.

*EMERGING PHENOMENA & RISKS*

## RE-LOCALIZATION

Push for re-industrialization in Western countries (sovereignty; jobs; ecology); New protectionism; Valorization of local communities in the face of climate events (and possibly higher costs of mobility); Rising xenophobia...

*EMERGING PHENOMENA & RISKS*

## POST-TRUTH, POST-TRUST

Citizen journalism and whistle-blowing; Declining trust in institutions, media, science, etc.; Political polarization; Social media “filter bubbles”; Deliberate manipulation of cognitive biases; Deep fakes...

*EMERGING PHENOMENA & RISKS*

## TECHNO-ETHICS

Synthetic offspring with engineered inheritable somatic cells; Personal biosynthesizers with 3D organic and mineral printing for food and personalized therapeutics; Progress towards Artificial General Intelligence... All come with their own, specialized ethics committees and charters. Are these real answers or smokescreens?

*EMERGING PHENOMENA & RISKS*

...

*EMERGING PHENOMENA & RISKS*

...

*EMERGING PHENOMENA & RISKS*

...

# YOUR CHARACTER

WRITEDOWN YOUR CHARACTER'S NAME SO THAT EVERYONE CAN SEE IT!

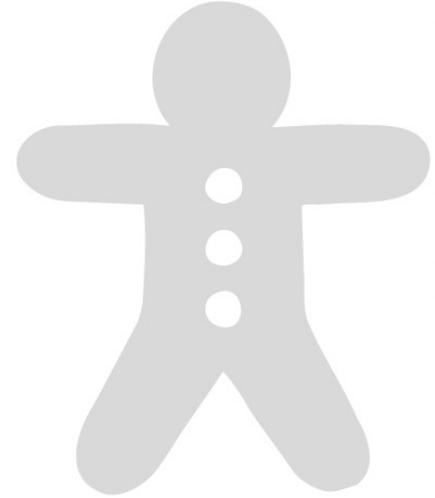
*What is your name?*

*How old are you?*

*What gender(s) are you?*

*What is (or are) your occupation(s)?*

*What are you passionate about?*



# 2024-2050: REMEMBERING THE 1st BIFURCATION: WHAT HAPPENED?

DECISIONS (*What? When? By whom?...*)

EVENTS (*What? When? Where?...*)

INNOVATIONS (technological & otherwise)  
(*What? When? By whom?...*)

SOCIAL & CULTURAL SHIFTS  
(*What? Where?...*)

CONFLICTS (*What? When? Where? Between  
who and who?...*)

AT WHAT COST DID IT HAPPEN? (*and for whom*)

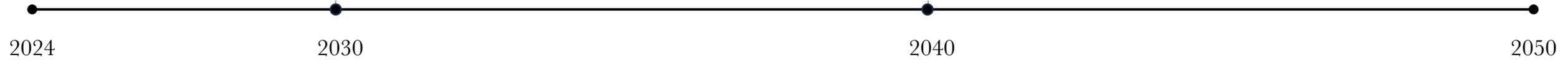
# 2024-2050: TIMELINE OF THE 1st BIFURCATION

*Triggers: "It began with..."*

*"What followed was..."*

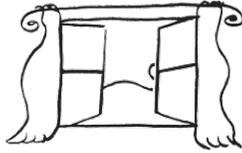
*"The tipping point was..."*

*A crisis...*



# OUR SUBJECTIVE WORLD: Paris, October 27, 2050

*What do you hear around you?*



*What do you see through the window?*



*What do you smell?*

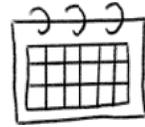
*What is too scarce?*



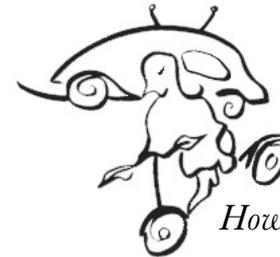
*What is there too much of?*



*What are you eating,  
where, with whom?*



*What do you miss  
or regret?*



*How do you move around?*

*What does your habitat look like?*



*What do you love or hate  
about this city in 2050?*

# 2050-2075+: MAJOR ISSUES OF OUR TIME

*(They can be new issues, or old issues that were set aside during the 2024-2050 Transition)*

ECONOMIC & SOCIAL CHALLENGES

INJUSTICES

SOURCES OF CONFLICT

POLITICAL/GOVERNANCE CHALLENGES

NEW INNOVATIONS  
& THEIR CONSEQUENCES

NEW ASPIRATIONS

# 2050-2075+: NEW EXISTENTIAL RISK(S)

*(At the level of Climate Change during the 2024-2050 period)*

EXISTENTIAL RISKS IN 2050+  
(if any)

WHERE THEY EMERGE FROM

HOW TO AVOID THEM



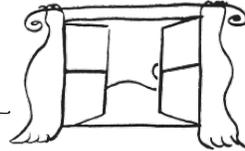
# 2050-2075+ BIFURCATION: .....

*A SLOGAN*



*A MEDIA HEADLINE*

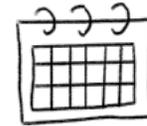
*MAJOR CHOICES*



*WHAT WE DECIDED OVER WHAT*

*WHAT WE GAVE UP*

*WINNERS*



*LOSERS*