

# Developing and implementing a foresight trajectory for UNEP

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Office of the Chief Scientist, UNEP

**Strategic Foresight CPR Subcommittee Meeting**  
**23 May 2023**

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- **Foresight is** a structured, multi-disciplinary approach to think systematically and explore trends, emerging changes and to inform decision-making and priority-setting today. Foresight is not about forecasting or predicting the future, nor is it intended to entirely replace traditional forms of analysis and policy-making.
- **Horizon Scanning** is the foundation of a Strategic Foresight process and is the systematic outlook to detect early signs of potentially important developments. It involved a set of methods and assumes ongoing monitoring of changes as they mature into trends.
- **Futures** is the broad academic and professional field developing globally as well as research, methods and tools that are available to be used to develop a foresight capacity.
- **Strategic Foresight** is an organisational capacity that informs the development of strategy. It allows decision-makers and stakeholders to look outside, above and beyond, and have structured strategic conversations about change, uncertainty and complexity, and take its impacts into account.

# A new foresight trajectory for UNEP

## Assumptions

- Developing deeper strategic foresight and future-oriented culture can enable a wide set of tools to **support strategic planning, prioritisation and advance effective preparedness.**
- UNEP needs a common understanding and vision of its foresight function and a process to **unite efforts, maximize efficiency and extend impact.**

## Three mutually supportive workstreams:

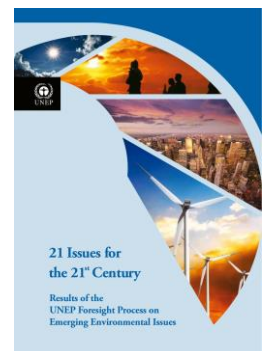
1. Building internal capacity and capabilities for applying foresight.
2. Applying foresight and horizon scanning as an organization (short-term & long-term future perspectives) to inform strategic planning.
3. Codifying UNEP's approach, methodology and mutually agreed Strategic Foresight function.

# Foresight related activities at UNEP

- Currently UNEP broadly undertakes three levels of **environmental** foresight work based on short, medium and long-term time horizons:
  - *Short-Term* Foresight focused on permanent and dynamic early warning GEAs, *Foresight Briefs (monthly)*
  - *Medium-Term* Foresight that includes Frontiers and Emerging issues (annual)
  - *Long-Term* Foresight focused on long term futures e.g., GEO/IPCC Long term projections and scenarios released every 5-10 years, and the 21 Issues for the 21<sup>st</sup> Century report –outcome of a 12-month horizon scanning foresight

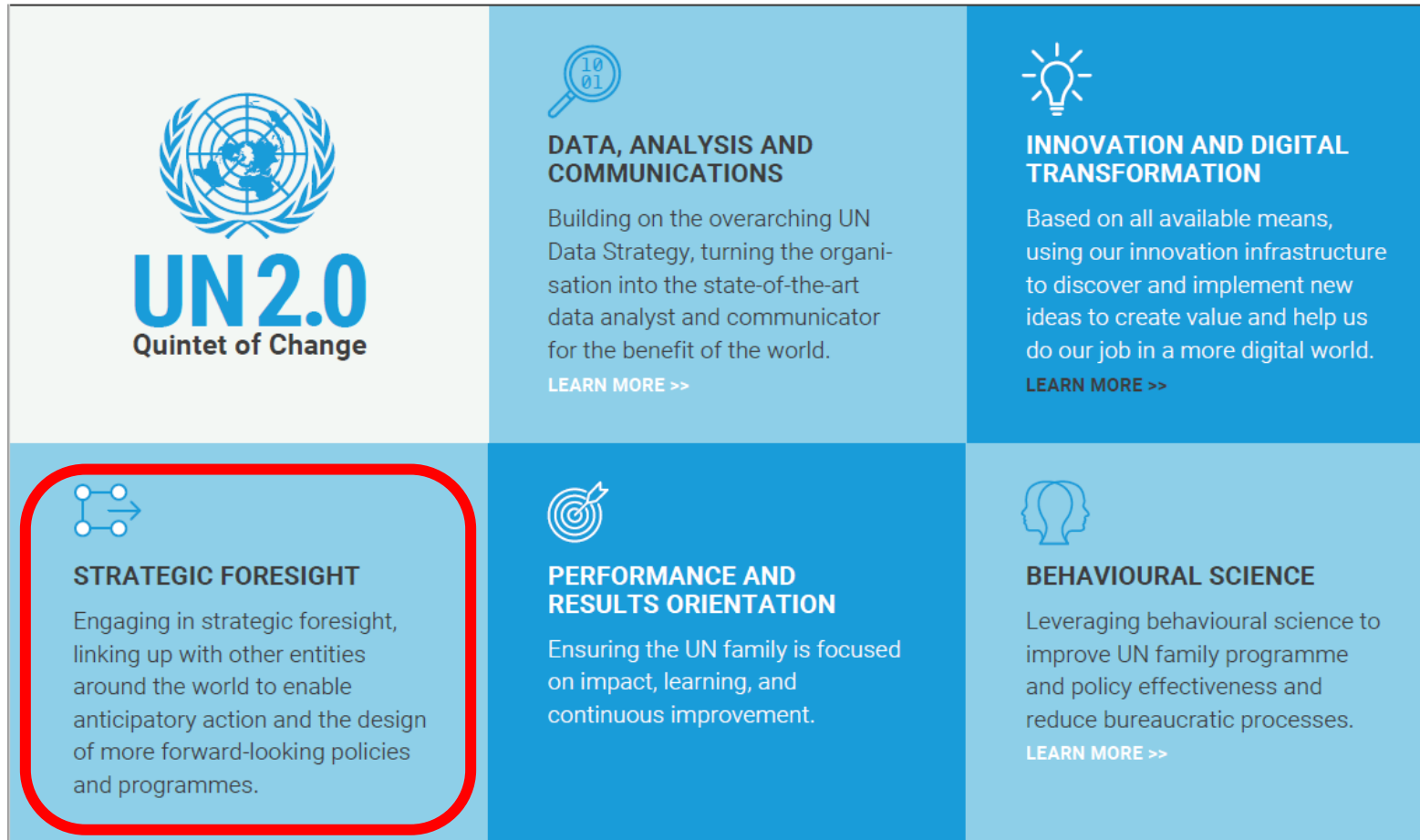


**We can enhance what we have been doing in Foresight to navigate disruption or change, and apply systematic and robust approaches across the organisation**



# UN 2.0 – Quintet of Change

**Strategic Foresight is one of the five major step changes in the ongoing UN reform process**



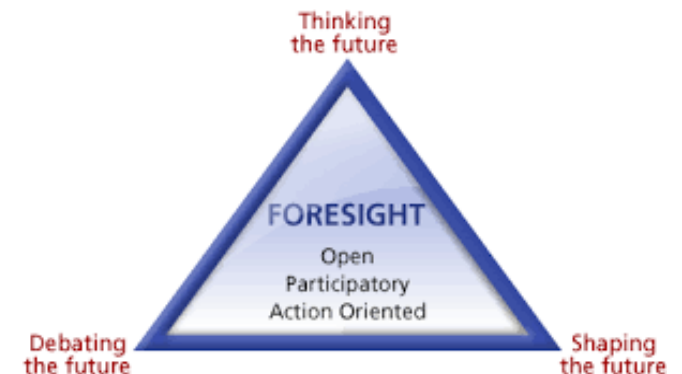
- UN Futures Lab
- Strategic Foresight and Global Risk Reports (5-year)
- Trusteeship Council repurposed as a Multi-stakeholder Foresight Body
- Special Envoy for Future Generations
- Action Agenda for 2040-2050
- UN Summit on the Future (September 2024)
- Inputs from specialized agencies on critical future issues; insights from HSFs to assist countries think through a range of possible futures, threats and opportunities.

# How Do Organizations use Foresight

- **Foresight informs strategic planning**
- Identify issues on the horizon and keep a watching brief on changes that may affect business
- Deepen understanding on factors influencing an organisations mandate, workstreams and **priorities**
- Understanding **gaps and changes eg. in workforce, skillsets, technology and preparedness**
- Prioritisation of issues, where trends and issues are reviewed for where benefits can be attained
- Strengthening organisational alignment
- Develop an informed **future-oriented strategy** and
- Plan interventions that **improving long-term performance and impact!**

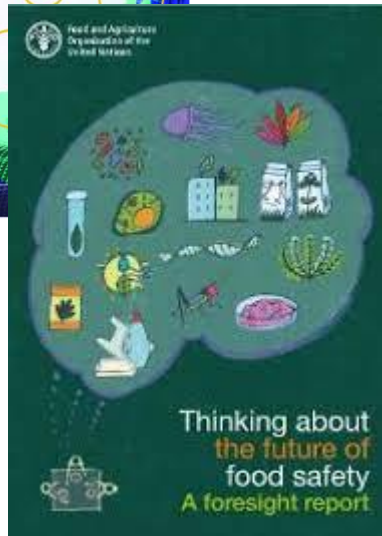
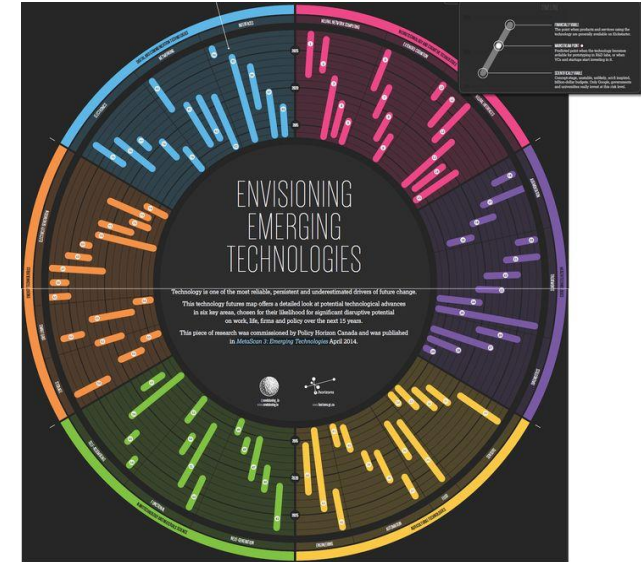
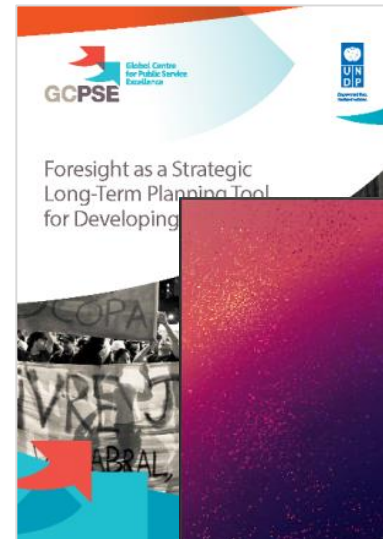


The World Economic Forum

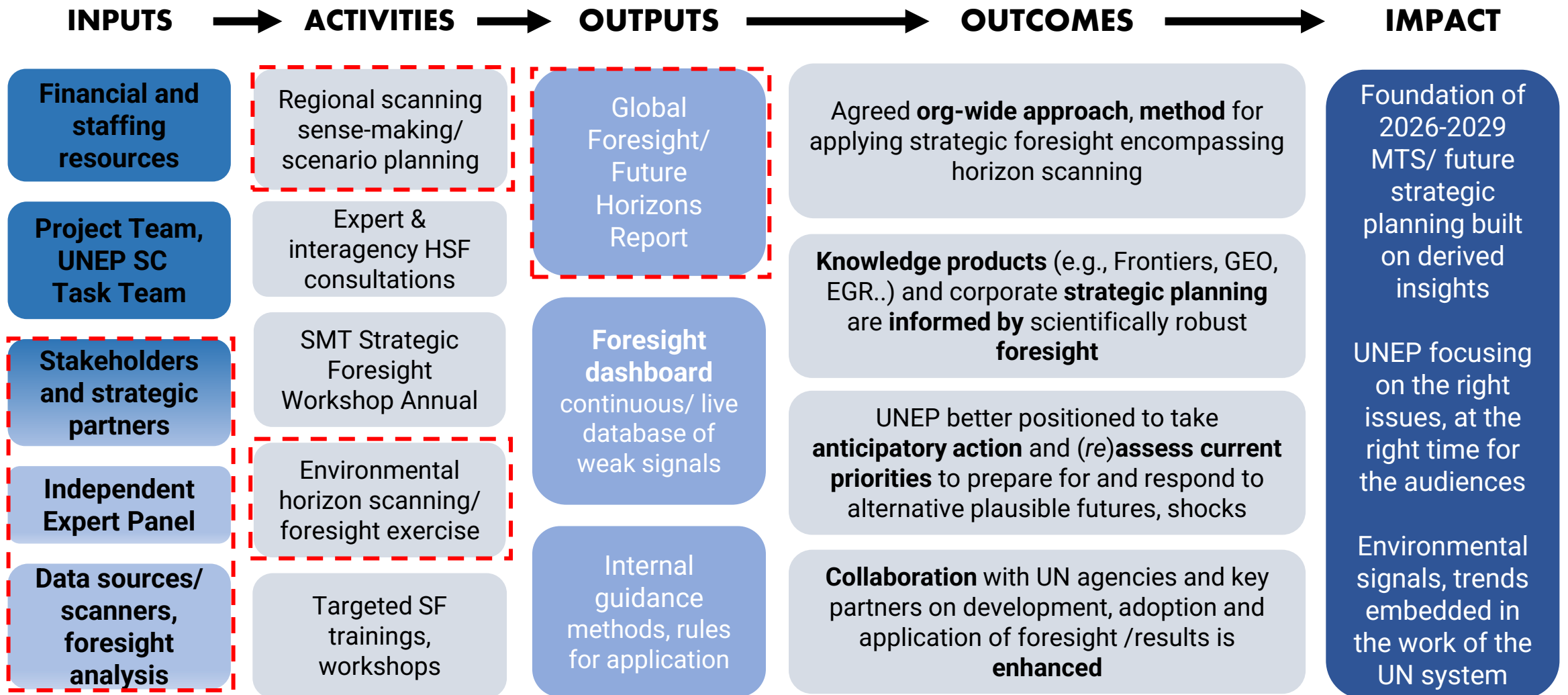


European Foresight Platform

# How Do Organizations use Foresight



# Approaching a foresight trajectory





# Key Participants

**Project Team:** UNEP; Prospex/DRS; International Science Council

**UNEP Task Team:** Staff from across UNEP including regions

## Foresight Expert Panel

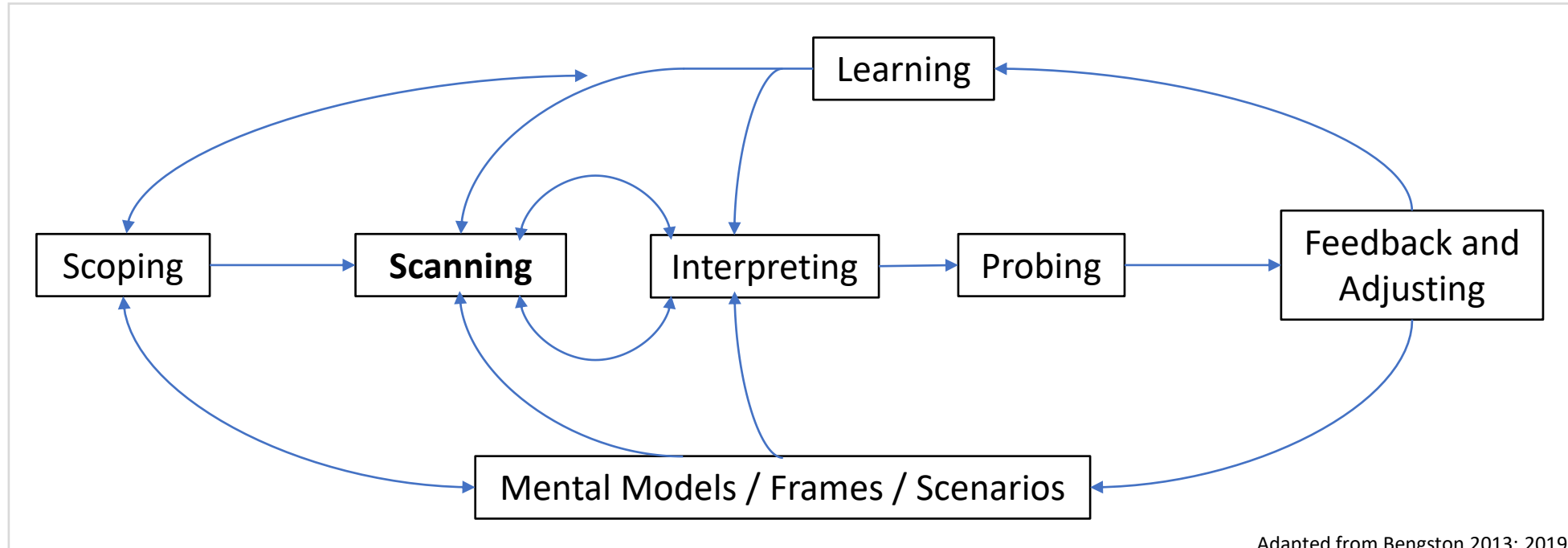


Member Name	Region
1. Debra Davidson	WEOG
2. Diana Mangalagu	CEE
3. Diana Ürge-Vorsatz	CEE
4. Edgar E. Gutierrez-Espeleta	LAC
5. Elham Ali Mohamed	Africa
6. Fang Lee Cooke	WEOG
7. Felix Moronta Barrios	LAC
8. Henrik Carlsen	WEOG
9. Jia Gensuo	Asia Pacific
10. Michelle Mycoo	LAC

11. Nadejda Komendantova	WEOG
12. Nicholas King	Africa
13. Nyovani Madise	Africa
14. Peter Gluckman	WEOG
15. Ranjan Datta	Asia Pacific
16. Simone Lucatello	LAC
17. Soumya Swaminathan	Asia Pacific
18. Wibool Piyawattanametha	Asia Pacific
19. Wilfred Lunga	Africa
20. <b>Salvatore Arico (ex officio), ISC</b>	
21. <b>Andrea Hinwood (ex officio), UNEP</b>	

Carefully selected through an ISC nomination process

# Horizon scanning foresight process



- Horizon scanning – systematic detection, collection and interpretation of issues and signals of change within a specific field
- To be effective, a horizon scan is carried out in the context of a process that facilitates the downstream use of outputs

# Horizon scanning foresight process (for UNEP)

## 1. Scoping

Part 1: set-up/ design framing, Delphi survey & mental models (*Feb-May*)

<<<<<< Learning, framing, adapting >>>>>>

## 2. Exploratory Sourcing & data gathering (*May- June*)

### Scanning for evidence

- Delphi digital survey ~+1000
- Internal/UNEP intelligence gathering ~100
  - Other UN Agencies ~200
  - Member States ~193
- UNEP Major Groups and Stakeholder ~400

## 3. Developing Scenarios / Alternative Futures (*June 20-21*)

Developing a set of contextual narratives of “alternative futures” — or storylines of how the future might unfold. The scenarios will be used as a platform and foresight tool to engage in systemic reflections and the exploration of potential challenges, opportunities and options for action.

## 4. Interpreting/sensemaking level #1 (*Expert Panel*) (*June - Sept*)

systematic detection & structured debate

Initial mapping, evaluation and analysis of weak signals of change (Global)

## 5. Filtering: contextualizing, probing, validating, adjusting (sensemaking level #2) (*Oct-Nov*)



Africa  
foresight  
workshop

Europe  
foresight  
workshop

West Asia  
foresight  
workshop

Asia Pacific  
foresight  
workshop

LAC  
foresight  
workshop

N.A.  
foresight  
workshop



Adapting

Region-specific issues, risks, opportunities & areas for action to support transitions

## 6. Reporting: identification of key issues and significant disruptors on the horizon, priority actions and possible implications (Future Horizons) (*Jan-April 2024*)

# Horizon Scanning & Foresight

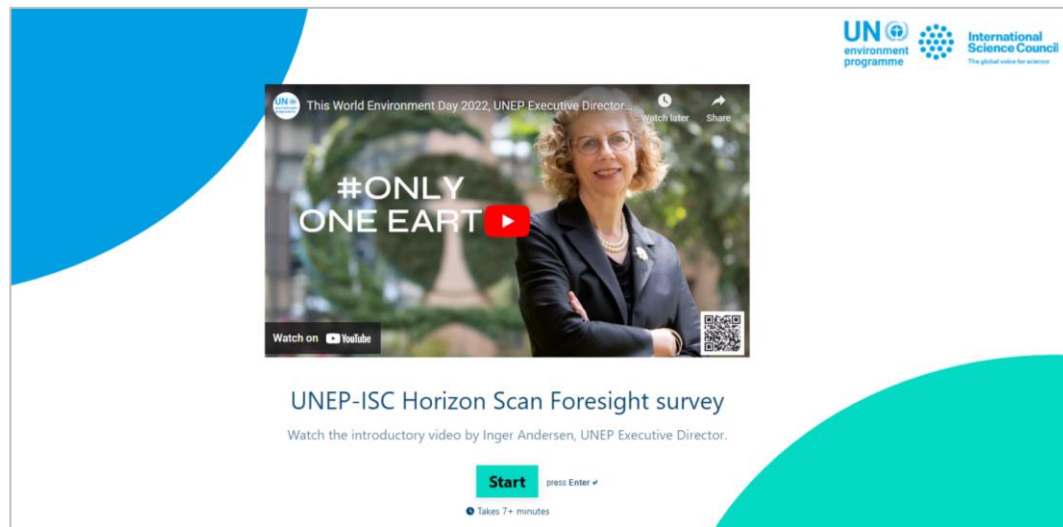
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- We hope to receive at least 1000 ‘issues’ or ‘signs of change’ with attached evidence which will be analyzed and from which signals will be determined (outputs)
- These will then be ‘sense checked’ by our global expert panel and regional foresight teams and be discussed in the context of scenarios.
- Issues and themes identified will then have a deeper review
- Most processes, including megatrends analysis, involve the engagement of experts to sense check and give perspectives on issues
- We will have global and regional experts and inputs

# The Delphi Survey 'signals' identification

## *Data sources / semi-curated list of participants*

- 1. Scientists and technical experts (n=~1000)** *International Science Council & UNEP networks*
- 2. Government, major groups other stakeholders (n=~400)** *193 Member States – nominations through Governance Affairs; private enterprise, practitioners, youth, civil society/ MGS (including non-traditional knowledge experts*
- 3. UN participants (n=~200);** *Network of internal/ “UNEP-scanners” (~100 nominated); Representatives from other UN agencies (including conventions, Secretariats etc.)*



## What we need from CPR

Nomination of one representative per MS to pre-register and complete the Delphi Survey

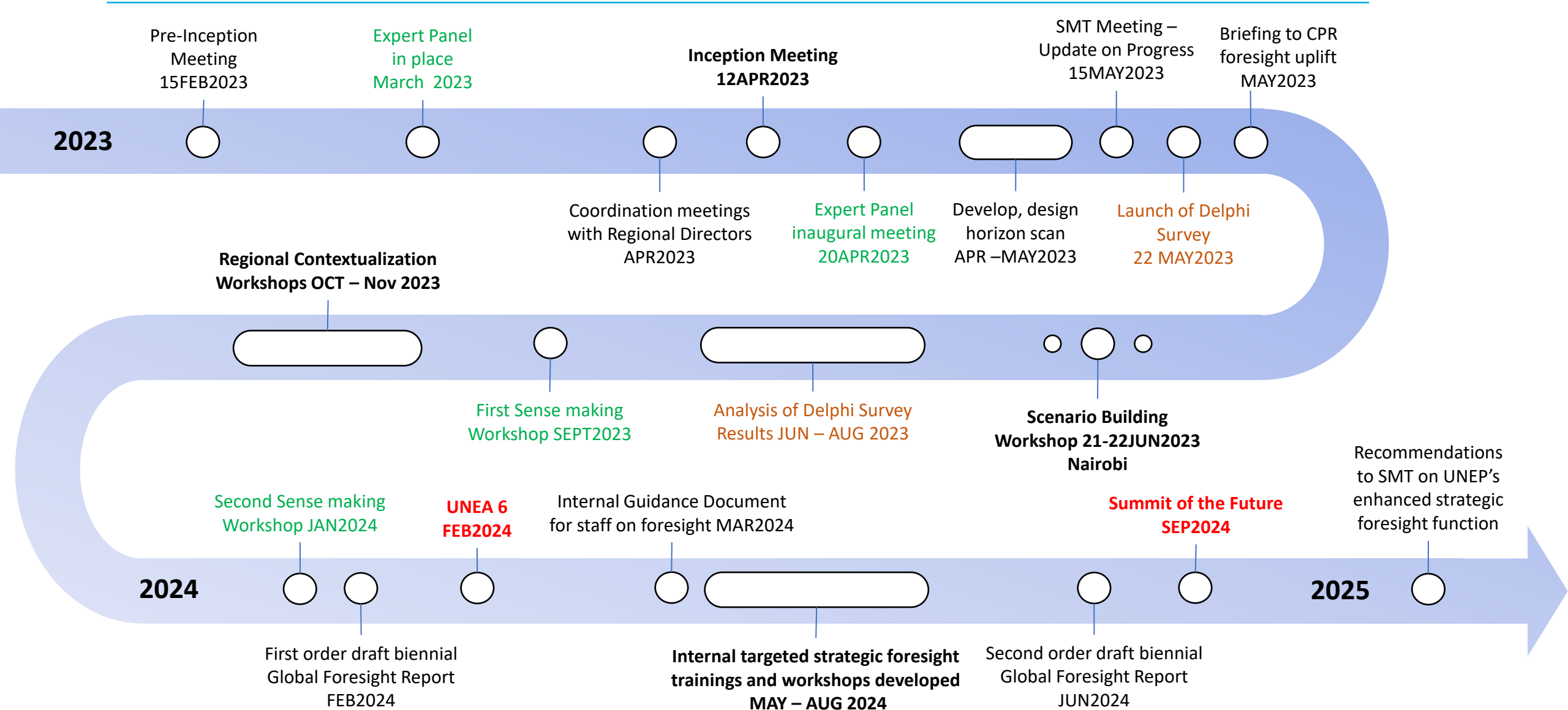
Delphi Survey will be open from May 29 – June 28

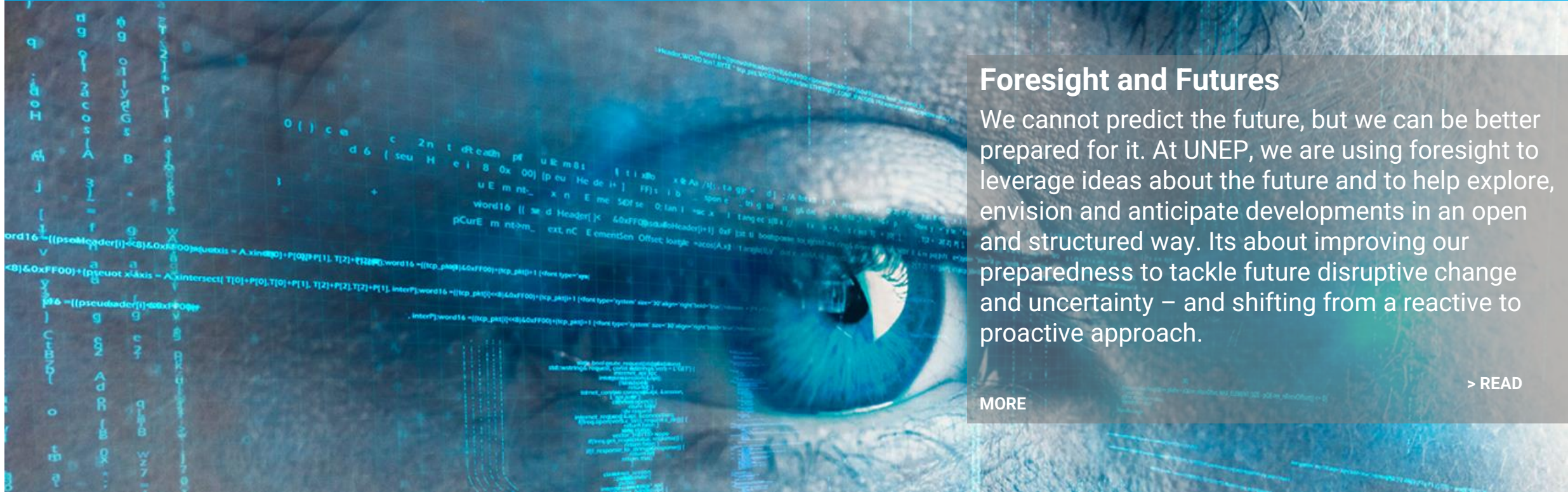
The plan is to **link the two processes** as follows:

- 1. UNEP provides GEO-7 with the set of contextual future scenarios.** This enables GEO-7 to
  - capture deep uncertainties in the future context, and to
  - test and adjust its solution pathways in view of divergent future contexts
  - (Note: the modelling approach in development for GEO-7 captures to a certain extent "*action*"-uncertainty; it does however not capture *contextual* uncertainty – hence the value of this process to the GEO-7)
- 2. GEO-7 provides UNEP with the set of solution pathways,** which can be applied in its strategy-making for UNEP as an organisation.

**Mutually reinforcing**

# Key Milestones





## Foresight and Futures

We cannot predict the future, but we can be better prepared for it. At UNEP, we are using foresight to leverage ideas about the future and to help explore, envision and anticipate developments in an open and structured way. Its about improving our preparedness to tackle future disruptive change and uncertainty – and shifting from a reactive to proactive approach.

[> READ](#)

[MORE](#)

### Latest updates



# Thank you

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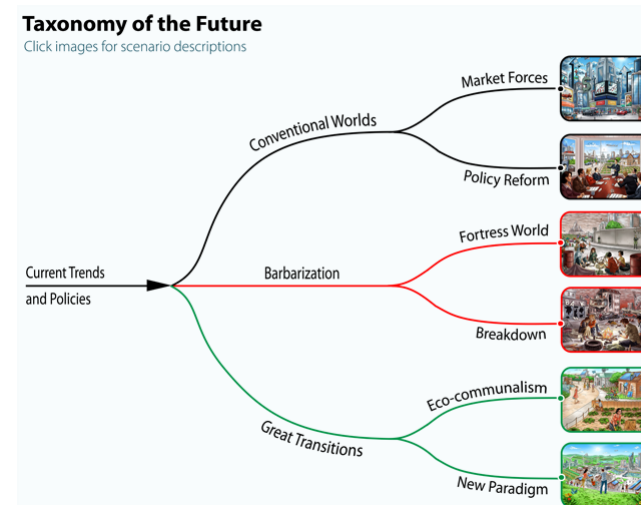
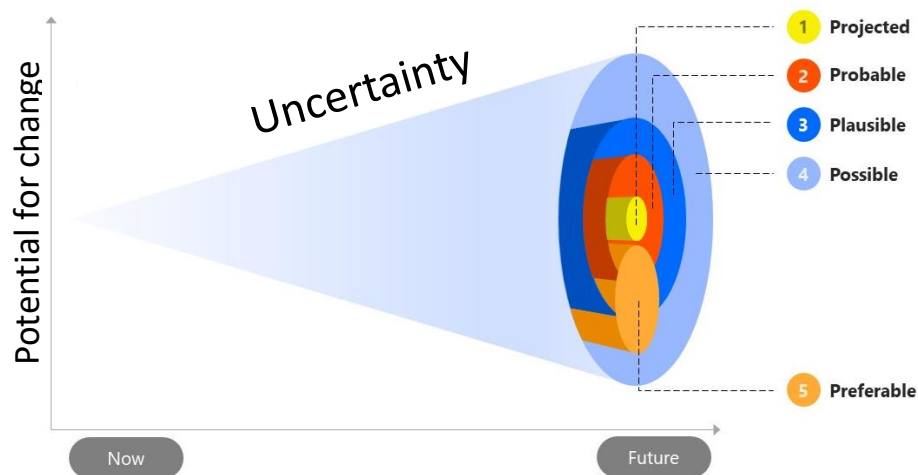
Jason Jabbour, Senior Program Coordinator, Strategic Foresight Task Team  
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# Exploratory Scenarios (for foresight)

1. **Scoping** Part 1: set-up/ design framing, Delphi survey & mental models  
(Feb-May)

Part 2: **Developing Scenarios (Futures)**  
(June 20-21)

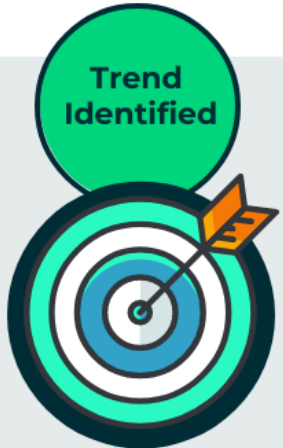
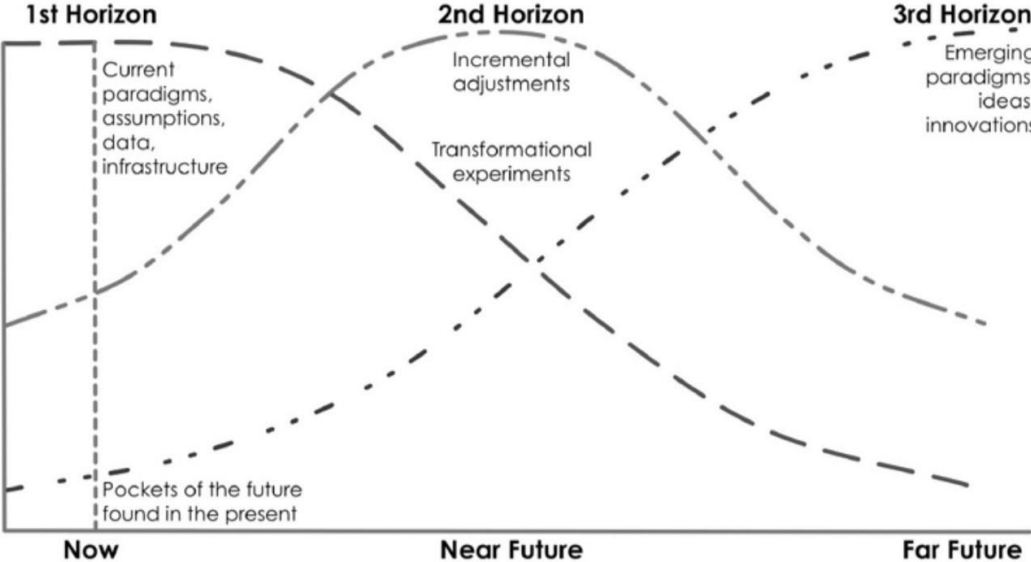


Developing ongoing **process for UNEP's foresight function** applying different foresight techniques, OCS will **develop a set of contextual future scenarios** = qualitative storylines describing divergent & plausible ways the world might develop)

**UNEP's GEO-7** is a separate **process** that also contains a foresight element focused on developing **target-seeking solution pathways** – or, in other words, a set of actions (incl. policies) that seek to move the world towards reaching defined environmental targets

# The Horizon Scanning Cycle

Identifying trends involves many steps and revisions but it will be worth it in the end!



**MAP YOUR TRENDS** - Once you have spotted threats, opportunities and potential issues, you can generate relevant reports

**ASSESS YOUR RESULTS** - What can you learn from your research? Are there any trends, insights, or weak signals?

**COLLATE YOUR KEYWORDS** - Experiment, explore, refine, and assess them constantly based on feedback from your team

**DEFINE YOUR OBJECTIVES** - Discuss and investigate what you want to achieve. They will align with, and inform, the firm's strategy

**1. CREATE YOUR TEAM** - Identify interested and influential people who are determined to make a difference

