

UNEP Digital Transformation Subprogramme

Orientation session for members of the Committee of
Permanent Representatives

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UNEP Digital Transformation Introduction

The two sides of digitalization to help tackle the triple planetary crisis



The **two sides** of the coin

DIGITALIZATION FOR SUSTAINABILITY

Digital technologies to address environmental challenges



SUSTAINABLE DIGITALIZATION

Ensuring the environmental sustainability of technology

UNEP Digital Transformation

Examples of our areas of work

UNEP Digital Transformation



Implement

- WESR Architecture
- Digital x Environment Use Cases for Member States
- Global Env. Data Strategy (GEDS)
- AI environmental impact



Enable

- Capacity Building (internal & external)
- Digital Accelerator Lab
- Digital & Data Governance
- Community Building



Influence

- AI Governance
- Digital Public Infrastructure
- Digital Product Passports
- International & Regional Organizations/Processes
- Publications



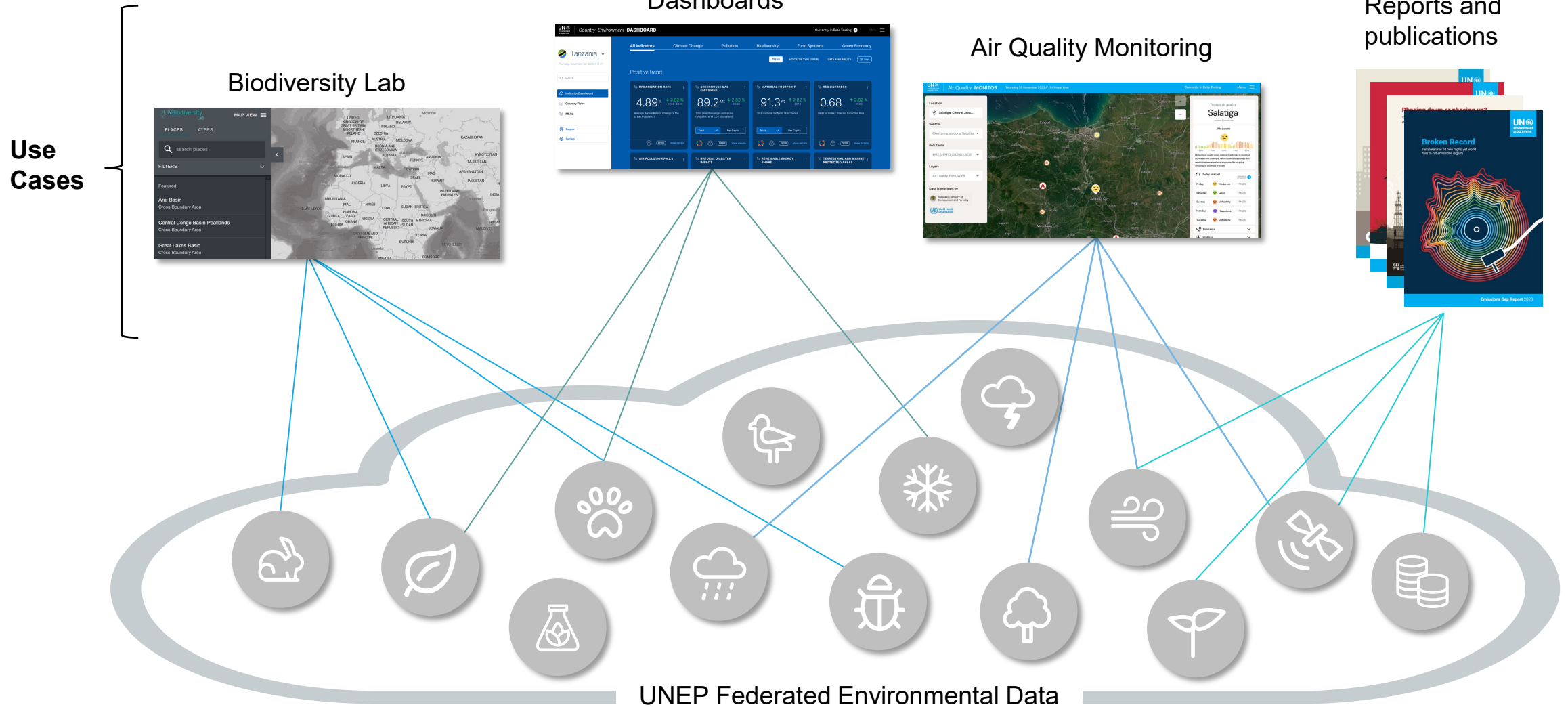
Governance



Partnerships

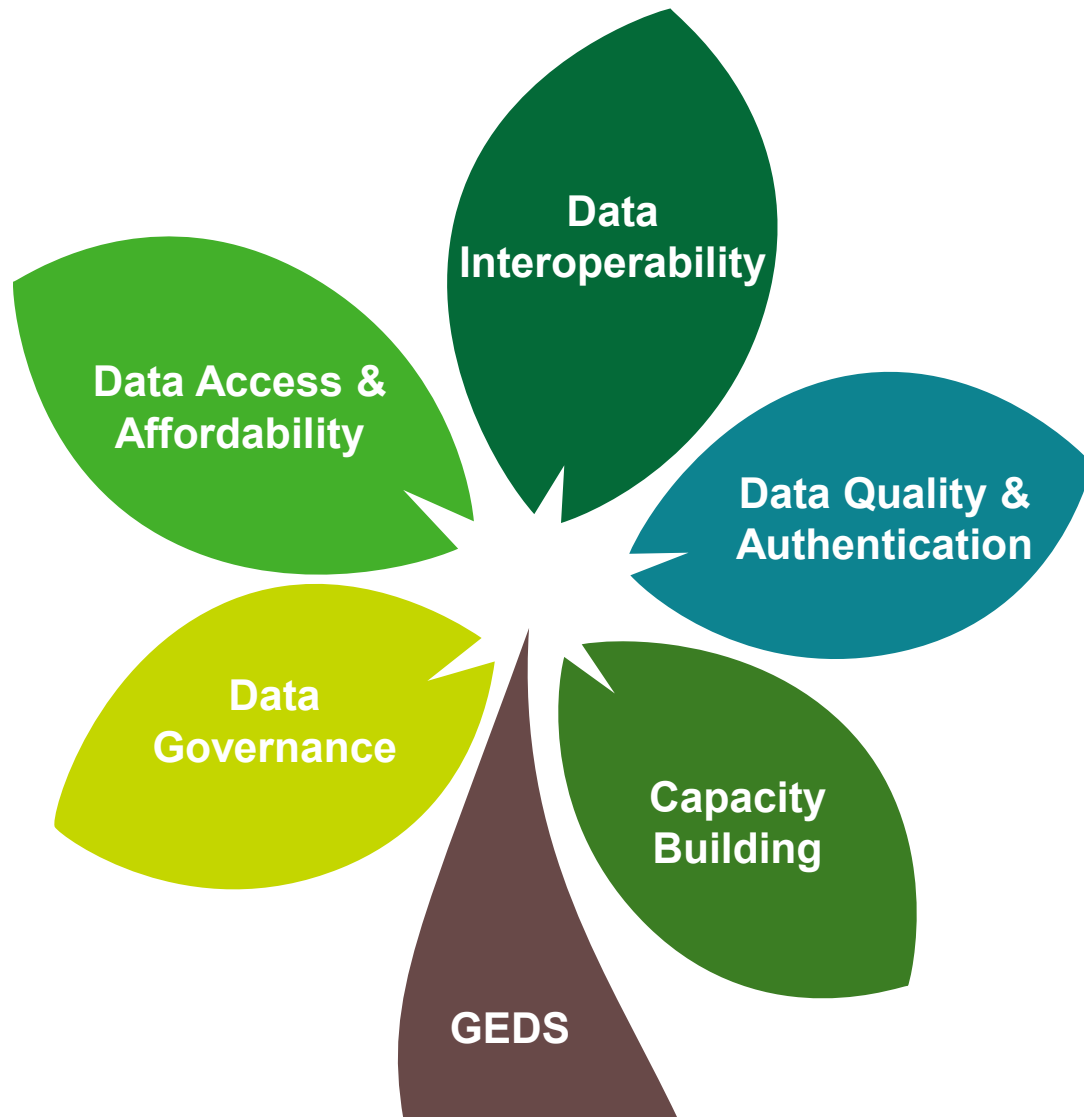
World Environment Situation Room (WESR)

Vision: Examples of use cases



Global Environmental Data Strategy (UNEA 4/23)

UNEP presents five key pillars for a GEDS, subject to further consultation and co-design



Improve Data Governance:

Advance comprehensive governance models that address ethical, effective, and sustainable methodologies for environmental data management practices.

Promote Inclusive Data Access and Affordability:

Detail action items and policy recommendations to improve open access to environmental data and address challenges related to data affordability.

Promote Data Interoperability:

Identify and integrate global and thematic data standards into a global environmental data framework for efficient sharing among stakeholders.

Enhance Data Quality and Authentication:

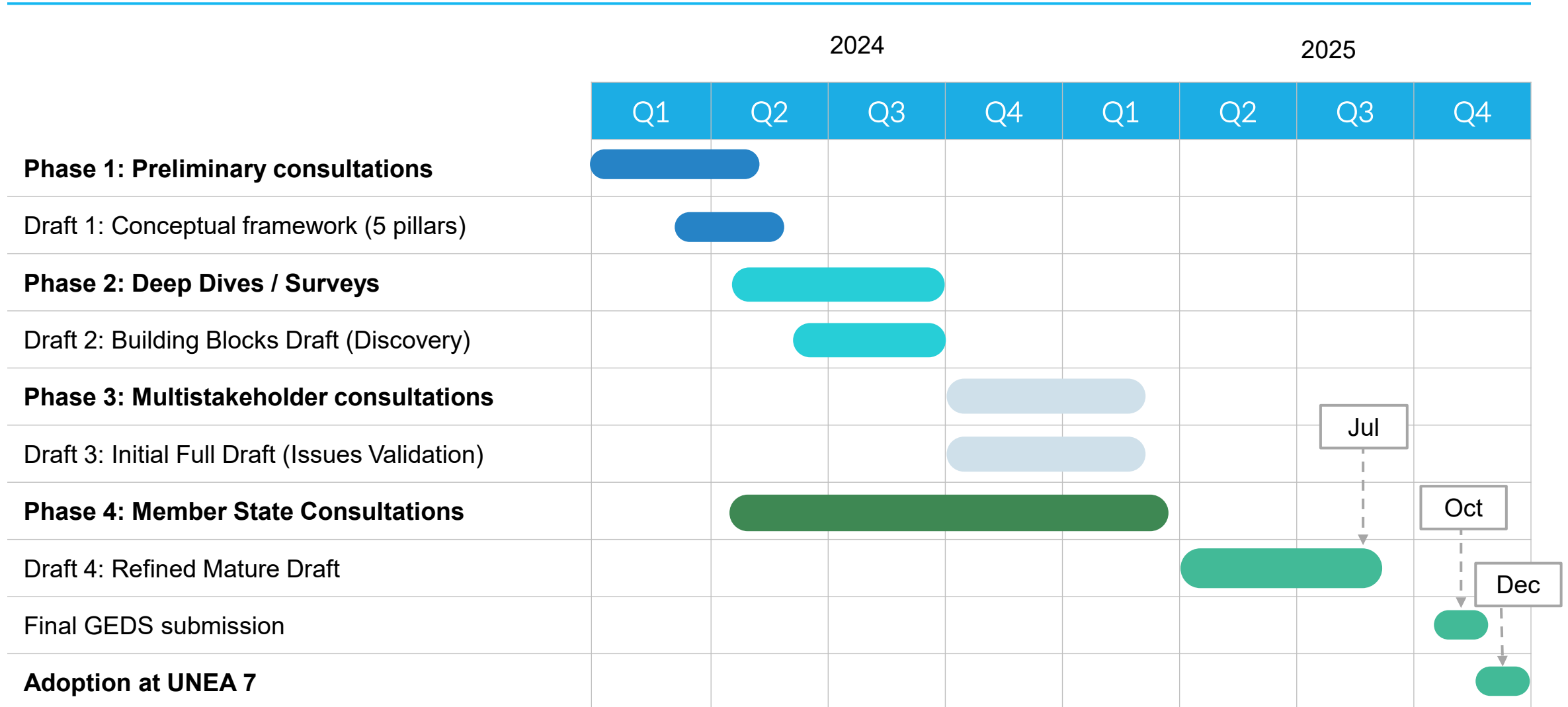
Discuss frameworks and standards for defining and classifying environmental data quality levels accurately.

Facilitate Capacity Building:

Support member states in acquiring skills for data governance, foster best practice exchange, and strengthen global initiatives for inclusive engagement.

Timeline

Consultations and draft development timeline



Digital Accelerator Lab

Examples of Digital Transformation projects



11 different prototypes to collect feedback

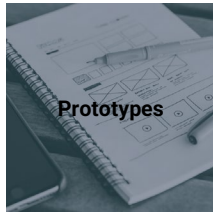


9 digital applications of environmental data currently available online



Reports and other resources online that spread knowledge to advance environmental goals





Prototypes



Solutions



Reports &

Resources

Digital4Sustainability

The banner features the United Nations System Staff College logo and navigation menu (Courses, Customized Services, Campuses, Media Centre, In Focus). The main text reads 'ONLINE 01 JAN 2024 - 31 DEC 2024 Digital4Sustainability Learning Path'. Below this, it lists 'CLIMATE CHANGE' and 'SUSTAINABLE DEVELOPMENT AND THE SDGs' with a 'Sign up' button. The background shows a globe with various icons representing sustainability and technology.



One-liner: Explores the role of digital solutions and innovations in advancing environmental and social sustainability

Office: Chief Digital Officer

[Link here](#)

What it is:

- This free course explores the transformational role digital solutions and innovations can play in advancing environmental and social sustainability.
- The Digital4Sustainability Learning Path is a comprehensive educational program developed in collaboration with UNEP, UNSSC, GIZ, the EU, CODES, and the UN Technology Envoy. It focuses on the transformative potential of digital solutions for advancing environmental and social sustainability.

Target Audience: General public.

What it can do:

- Gain insights into key concepts like digitalization, digital transformation, and digital sustainability.
- Understand how digital transformation addresses the triple planetary crisis of climate change, nature loss, and pollution.
- Learn to leverage digital technologies to advance sustainability using a systems approach.
- Recognize and mitigate negative impacts of digital transformation for ensuring long-term sustainability.

Sustainable Digitalization: Other Side of the Coin

Some of the current work

Quantifying the AI Footprint

- Issue note on the Environmental Impacts of AI
- Organize and participate in the dialogues around the topic: *ASC 11 "Artificial Intelligence Governance and Environmental Impact Considerations"*, *AIAB deep dive on environmental impacts of AI*

Consumer Information on Product Footprints

- The One Planet Network is leading the work on the digital product passports and consumer information.
- Development of the metrics and tools on quantifying and communicating the environmental footprints of products can help consumers make informed, sustainable choices.

Sustainable Digital Public Infrastructure

- Side events at SDG Summit and UNEA-6
- Launch of the Digital Public Infrastructure for the Environmental Sustainability (May 2024)

Thank you



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<https://www.unenvironment.org/>