"Geospatial and the World Environment Situation Room: Environmental Data and Knowledge for Peace Development and Humanitarian Action"

**Status Data Strategy and WESR Road Map 2022-2025**

**UNOOSA – COPUOS 2021**
30 August 2021 – Technical Presentation

UN environment programme

5 1972-2022

## Transformation Pathways

Transformational Pathway I: Integrating Data and Knowledge, 'Acting as One' across UNEP

Transformational Pathway II: A Digital Transformation Platform, through Impact and a 'One Global Partnership'

Partnerships | Technology | Knowledge | Information | Scientifically Credible Data
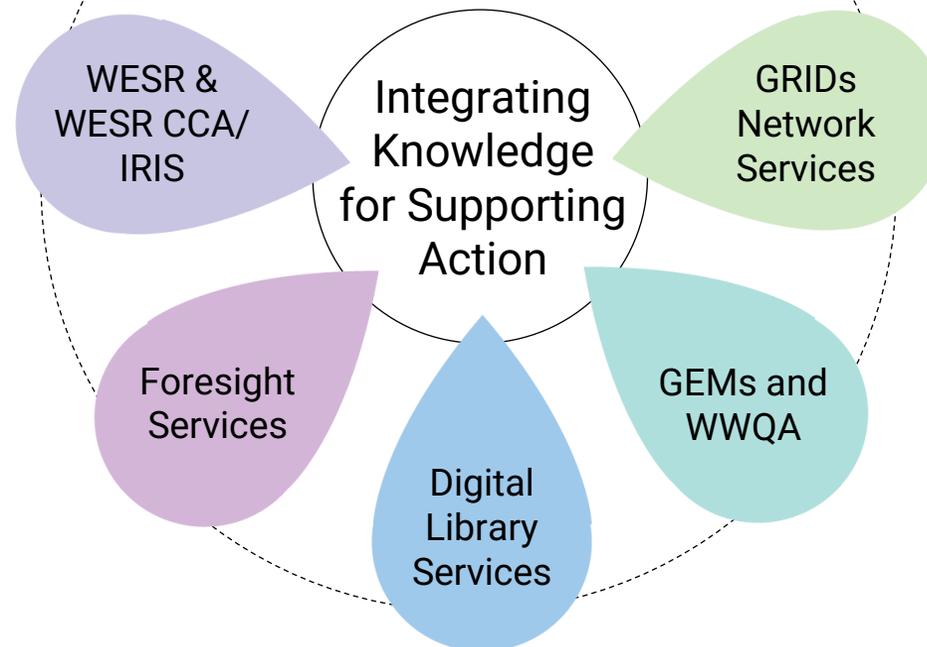
**GLOBAL DATA STRATEGY**

## Target Audience and Stakeholders

- Policy Makers
- Scientific Community
- International Organizations
- Business and Innovators
- Citizens and Civil Society

ENVIRONMENTAL DATA FOR OUR FUTURE

## Key Lessons Learnt from the PAST

- Lack of needed level of Leadership

- Unrealistic Expectations

- A Centralized Approach to Data

- Lack of Sustainable Funding
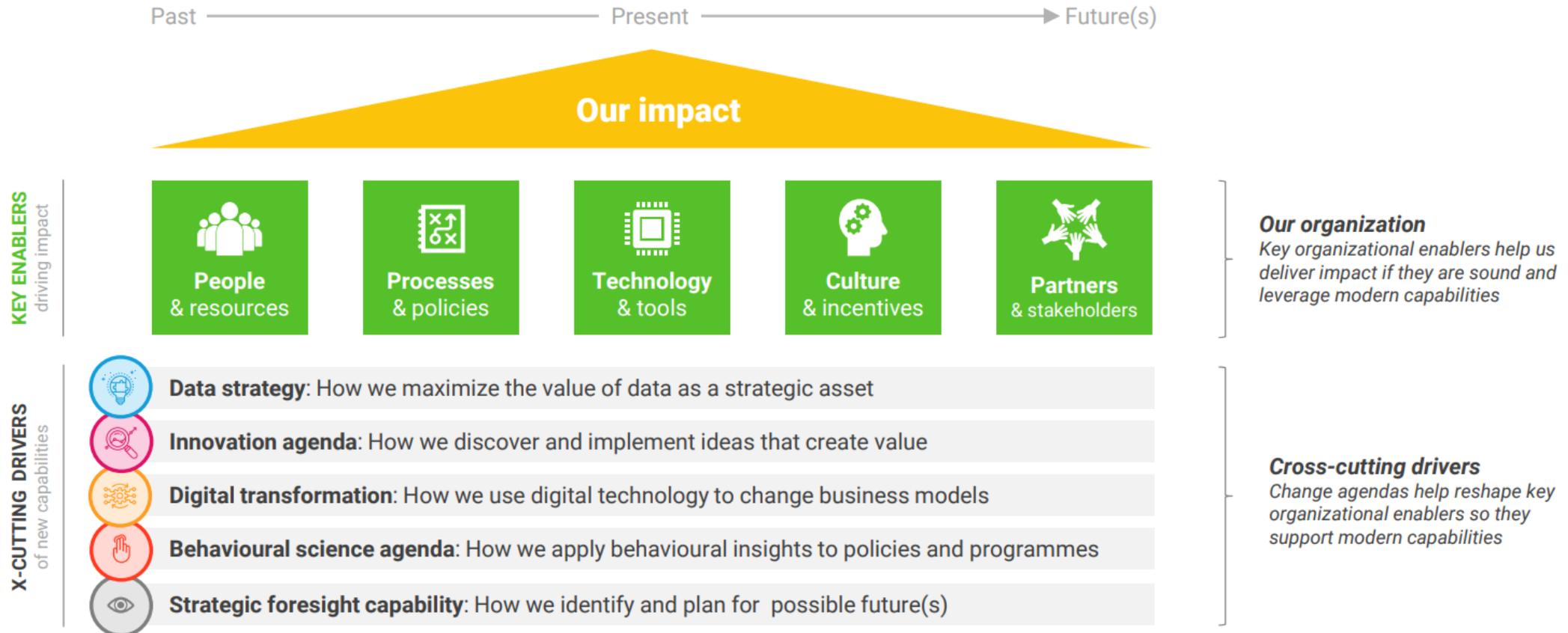
- No *Scalability* without Partnerships

WESR & WESR CCA/ IRIS

GRIDs Network Services

Integrating Knowledge for Supporting Action

Foresight Services

Digital Library Services

GEMs and WWQA

**Integration**

**Impact**

**Partnership**

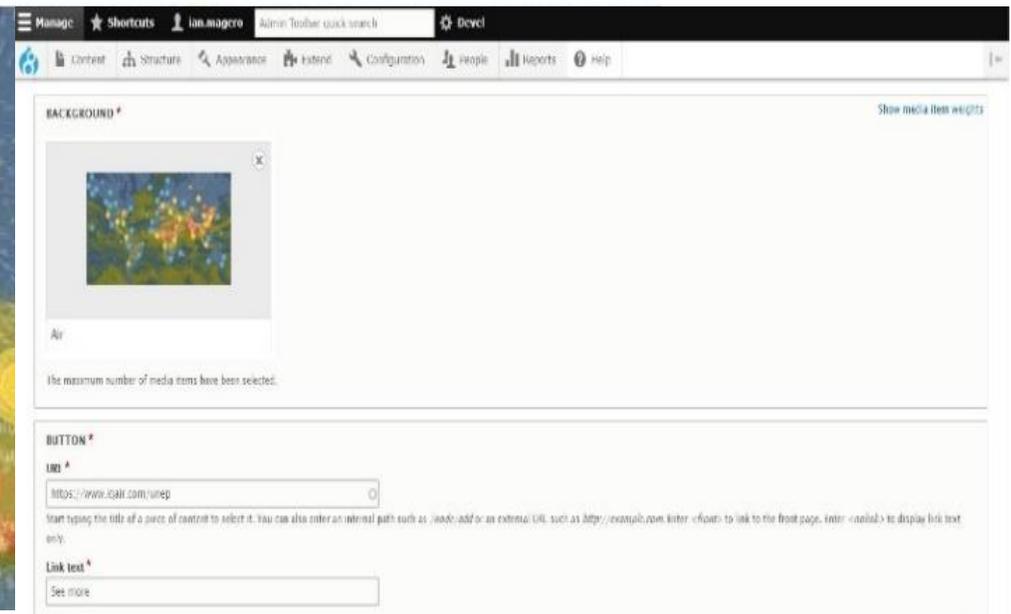Cross-cutting agendas to build the capabilities of a 'next-generation UN'

# **Integration:** New Design and Content Management System (CMS)
(fully aligned with MTS 2022-2025 Priorities) – Awaiting OICT security clearance
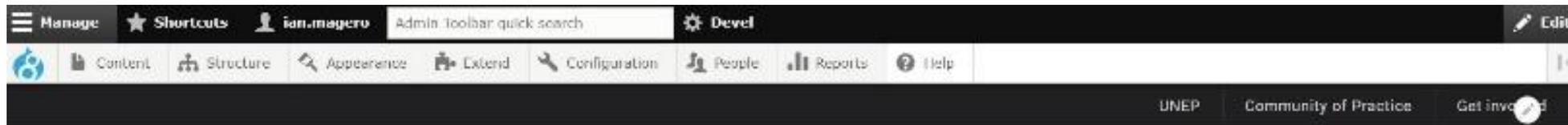


*A custom WESR CMS Page Edit:  Will allow data managers access to their pages in WESR*

# Integration: More than 15 Demonstration projects
(Across Divisions, Regional Offices and MEAs)

## Impact and Demonstration Projects

| Project | Key Leadership |
| --- | --- |
| WESR CCA | Across UNEP, all Regional Offices and Policy Division, GRIDs, Yale University |
| InforMEA | MEAs and Law and Governance Division |
| SCP-HAT | Economy Division, TRP and 10YFP Network |
| Biodiversity | Ecosystems, WCMC, GRD, IUCN, CBD, JRC |
| Ozone | MEA Secretariat Ozone |
| Climate Change | Ecosystems Division, GRID-Geneva |
| 3 Cities in Africa | Regional Office for Africa, GRID-Geneva, Yale University |
| Hotspots Atlas | GRID=Sioux Falls, GRID-Geneva |
| Illegal Killing Elephants | CITES and MIKE Team and EAD AGEDI Abu Dhabi |
| Oceans | GRID-Arendal, Science Division, UNESCO |
| Water | GEMs and World Water Quality Alliance, Ecosystems Division |
| Pollution | Economy Division |
| 33 Countries Fiches | GRID Geneva |
| SDGs and Statistics | Science Division |
| Knowledge Repository | Science Division |
| Air Quality Monitoring | Science Division |
| Foresight | Science Division, IPCC, IRP, IPBES, and UN CEB−HLCP Foresight Network |
| UNEP and Copernicus | GRID-Geneva, EC, ESA, Copernicus |
| Blueprint Geospatial Hub | UN Geospatial Network UN-GCIM |

# Integration: Content Managers make Available Contents and Services (CMS)
## (ACTING AS ONE Across UNEP)

Conceptual Framework for the Development of a Global Environmental Data Strategy



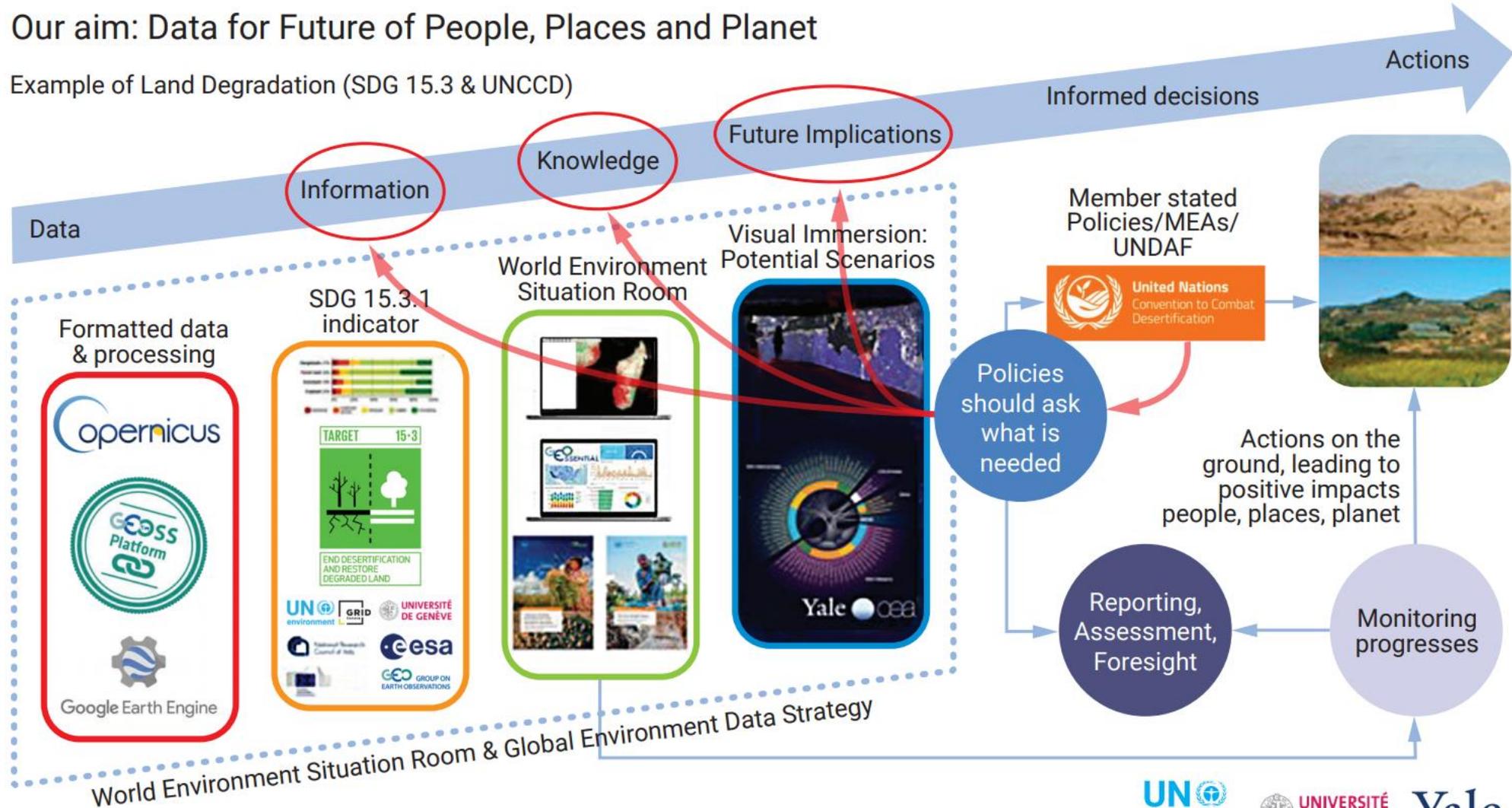**Roles and Responsibilities of Content and Service Managers, across UNEP, Divisions, Regional Offices and MEAs)**

**Impact:** Intelligent Environmental Data to Support Decision-Making and Action



Our aim: Data for Future of People, Places and Planet

Example of Land Degradation (SDG 15.3 & UNCCD)

**Impact:** 30 countries CCA – UN Reform - Interoperability with 5 UN Regional Economic Commissions

### WESR CCA Countries – Implementation in 2021



**Europe**
1. Kyrgyzstan
2. Serbia
3. Tajikistan

**Asia-Pacific**
1. Bangladesh
2. Cambodia
3. Lao People's Dem. Rep.
4. Maldives
5. Mongolia
6. Myanmar
7. Nepal
8. Thailand
9. Viet Nam

**Africa**
1. Botswana
2. Côte d'Ivoire
3. Egypt
4. Eritrea
5. Gambia
6. Ghana
7. Guinea
8. Guinea-Bissau
9. Kenya
10. Madagascar
11. Malawi
12. Nigeria
13. Rwanda
14. Sierra Leone
15. Somalia
16. South Africa
17. Uganda

**West Asia**
1. Jordan
2. Lebanon
3. Saudi Arabia
4. United Arab Emirates

**Latin America and Caribbean**
1. Argentina
2. Belize
3. Jamaica
4. Peru
5. Barbados and Eastern Caribbean Countries
   a. Antigua and Barbuda
   b. Barbados
   c. Dominica
   d. Saint Kitts and Nevis
   e. Saint Lucia
   f. Saint Vincent and the Grenadines
   g. Grenada

**Impact:** CCA and UN Reform and 33 Country Fiches Joint Impact



WESR CCA and EC Country Fiches projects' Countries

# Where we want to Go

# Deliverables for 2021, 2023, 2025 and 2030

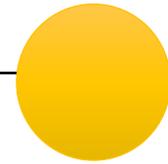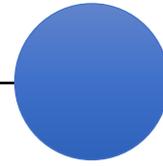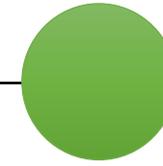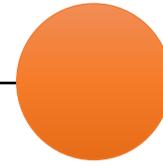| Contents and Services | 2021 | 2023 | 2025 | 2030 |
|---|---|---|---|---|
| Global Environmental Data Strategy | • Progress Report: UNEA-5<br>• Pathway I: Integration Completed<br>• Pathway II: Partnerships in Progress | • Progress Report: UNEA-6<br>• Pathway I and II: Integration and Partnership Complete | • Final Report: UNEA-7<br>• Global Environmental Data Strategy | • Implementation Environmental Data Strategy<br>• Towards achieving Agenda 2030 and SDGs |
| WESR and WESR CCA/IRIS | • WESR CCA Interoperability with Economic Commissions implemented and functional<br>• Security and infrastructure set-up of WESR assured | • Design and Content Management System of WESR implemented across all UNEP themes<br>• WESR CCA implemented across 5 Regions in selected courtiers | • WESR fully integrated with UNEP MTS 2022- 2025.<br>• WESR CCA implemented globally and visible in all Regional Collaborative Platforms and Issue-Based Coalitions. | • Seamless data streaming and analytics in WESR.<br>• WESR an integral part of global UN data infostructure. |
| Foresight Services | • Emerging issues highlighted in Foresight Briefs<br>• Foresight demonstration projects commence | • Foresight processes developed in UNEP<br>• Established Foresight Briefs<br>• Portfolio of foresight demonstration projects | • Foresight processes mainstreamed in UNEP<br>• WESR includes a future looking process | • Realtime foresight systems analysis of emerging issues & highlighting responsive policy actions<br>• Foresight process is fully integrated into the strategic planning & prioritization of UNEP |

# Where we want to Go

# Deliverables for 2021, 2023, 2025 and 2030

**2021** **2023** **2025** **2030**

| | 2021 | 2023 | 2025 | 2030 |
|---|---|---|---|---|
| GEMs and WWQA | • GEMS/Water delivers data in WESR and SDG 632<br><br>• GEMS/Oceans and Air partner on data for MTS<br><br>• WWQA updates WWQ-Assessment and runs 13 funded and non-funded workstreams | • GEMS/WWQA capacity development consortium;<br><br>• WWQ-Assessment incl. scenarios in UNEA 6<br><br>• WWQA informs Water Decade conference<br><br>• Water/Air/Oceans in MTS | • GEMS build on country, earth observation and modelling data in digital transformation<br><br>• WWQA process will be in 2nd phase - accelerates SDG 6 and periodic WQ update | • GEMS to achieve global regional national data coverage and time series<br><br>• Capacity building consortium standards taken up nationally<br><br>• WWQA informs solutions and products for long term operational application |
| Digital Library Services | • Fully integrated into WESR with easy search and visualization | • OARE is a key value asset for 100 developing countries | • ResearchforLife is a key value asset for 100 developing countries | • UNEP digital library as a key resource for UN Data Strategy |
| GRIDs Network Services (Advanced Geospatial and Data Analysis) | • Catalog of Services of 7 GRID centers fully available | • Expansion of GRID centers to include 3 more from the South (1 in Brazil, 2 in Asia and Pacific) | • Expansion of GRID centers to include 3 more from the South (1 in LAC, 1 in India and 1 in the Pacific) | • UNEP GRiD network services as a key resource for UN Data Strategy |

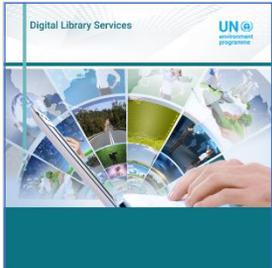**Partnership**: 24 *One Global Partnership* partners in place for WESR
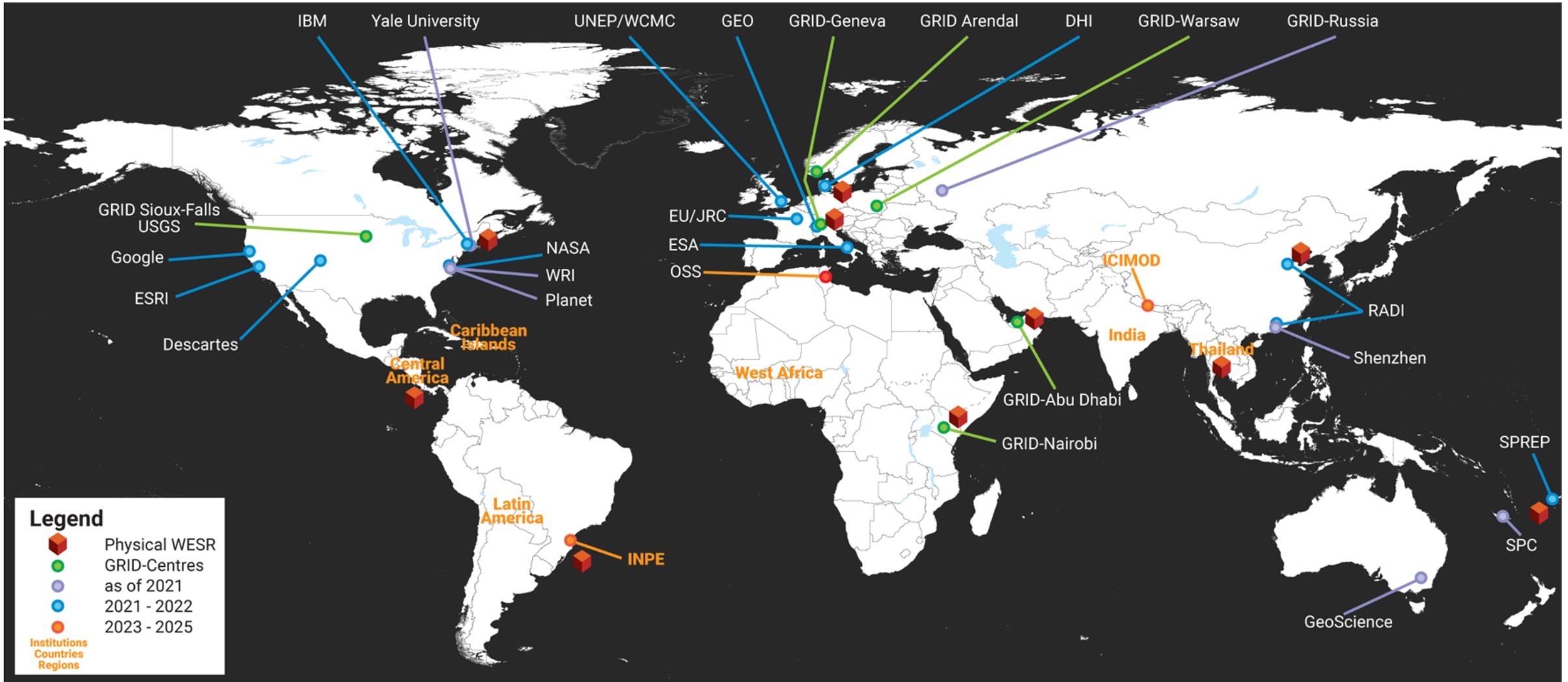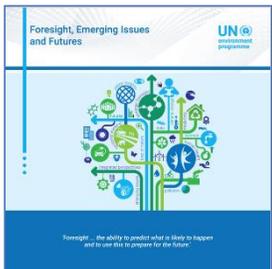
# Where we want to Go

# Communication and Outreach
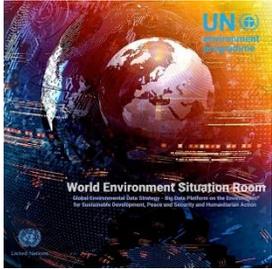
Big Data and the World Environment Situation Room: Harnessing Big Data on the Environment for Sustainable Development and Humanitarian Action - **https://wedocs.unep.org/bitstream/handle/20.500.11822/35894/BDWESR.pdf**

Digital Library Services - https://wedocs.unep.org/bitstream/handle/20.500.11822/35859/UNEPLib.pdf

World Environment Situation Room: Global Environmental Data Strategy - Big Data Platform on the Environment for Sustainable Development, Peace and Security and Humanitarian Action - https://wedocs.unep.org/bitstream/handle/20.500.11822/35186/WESRBDB.pdf

Foresight, Emerging Issues and Futures – https://wedocs.unep.org/bitstream/handle/20.500.11822/35878/FSB.pdf

The Indicator Reporting Information System - https://wedocs.unep.org/bitstream/handle/20.500.11822/35880/IRIS.pdf
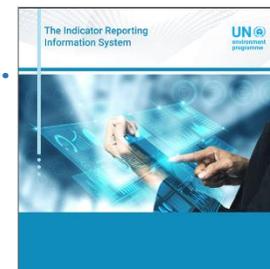
Global Environment Monitoring System Services & World Water Quality Alliance: Freshwater, Air and Ocean - https://wedocs.unep.org/bitstream/handle/20.500.11822/35879/GEMS.pdf
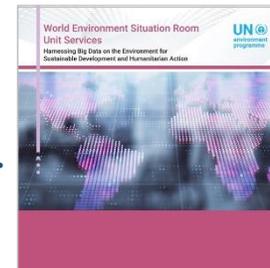
GRIDs Network Services: UNEP Environmental Data Centres in support to Environmental Governance and Policies - https://wedocs.unep.org/bitstream/handle/20.500.11822/35898/GRID.pdf

**Where we want to Go**

**Delivery to the MTS 2022-2025**

Science-Policy

Knowledge

Environmental Governance

Nature

Digital transformations

**Science-Policy** as a foundation

Contribute to climate stability by providing meaningful scientific information

Leverage digital transformations

**Digital Transformation** as an enabler

Make living in harmony with nature a reality

Environment Data Gap

Information

*Digitizing scientific knowledge*

Data

*Closing the environmental data gap*

Take us towards a pollution-free planet

Science

Put science at the Centre of sound environmental governance.

Ensure that sound science supports finance and economic transformations

Pollution-free

Finance and economic transformations

Digital transformations

# Where we want to go

## Readiness Implementation 2021

| Activities to be accomplished (GEDS/WESR) | Timeline |
|---|---|
| 1. Approval by the DGG of the Concept Data Strategy to be submitted for approval of SMT for follow-up consultation with member States and other external entities and stakeholders. | December 2021 |
| 2. Impacts on the Ground in Countries and Support to UN Reform (WESR CCA) - 30 Countries<br><br>(Including an updated global map of combined impact of WESR CCA/33 Country Fiches, in all regions and countries) | December 2021 |
| 3. The Interoperability of WESR with UN Regional Economic Commissions (UN Reform Knowledge Hubs) and UNDCO | October 2021 |
| 4. Implementation of EC Interactive Country Fiches – Data for Action through evidenced based decision-making: 33 Countries | November 2021 |
| 5. Integration into the WESR of Digital Library Services, Strategic Foresight activities and GEMs | September 2021 |
| 6. Integration into the WESR of 15 Demonstration Projects across MEAs, Divisions and Regional Offices | December 2021 |
| 7. New Designs for WESR Thematic Landing Pages and Implementation of new WESR - Content Management System | September 2021 |
| 8. Completion of 3 Workshops for Co-Design of WESR and alignment with MTS 2022-2025 | September 2021 |
| 9. To conduct to 2 Workshop Meetings with existing Donors and Members States funding GEDS/WESR for strategic reflection on strengthening the financial basis. | December 2021 |

## Delivery to the MTS 2022-2025

**Actions/Activities to be completed by end of 2021.**

**The Table on the left provides a list of Readiness Activities for the GEDS and WESR to be completed before end of 2021.**

In the last quarter of every year, the Secretariat of the DGG will provide for discussion and approval of the DGG, an **Annual Work Plan for GEDS/WESR** and the report of activities of the current year.

Thank You!

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