



UNEP DIGITAL TRANSFORMATION



UNEP Digital Transformation Introduction

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



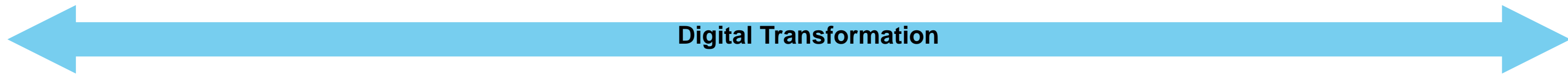
Achieve climate stability



Live in harmony with nature

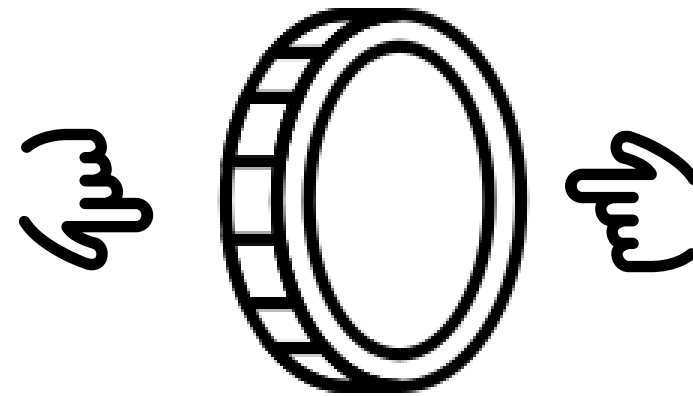


Reach a pollution free planet



Digitalization to Enable Sustainability:

Deploying digital technologies to address environmental challenges

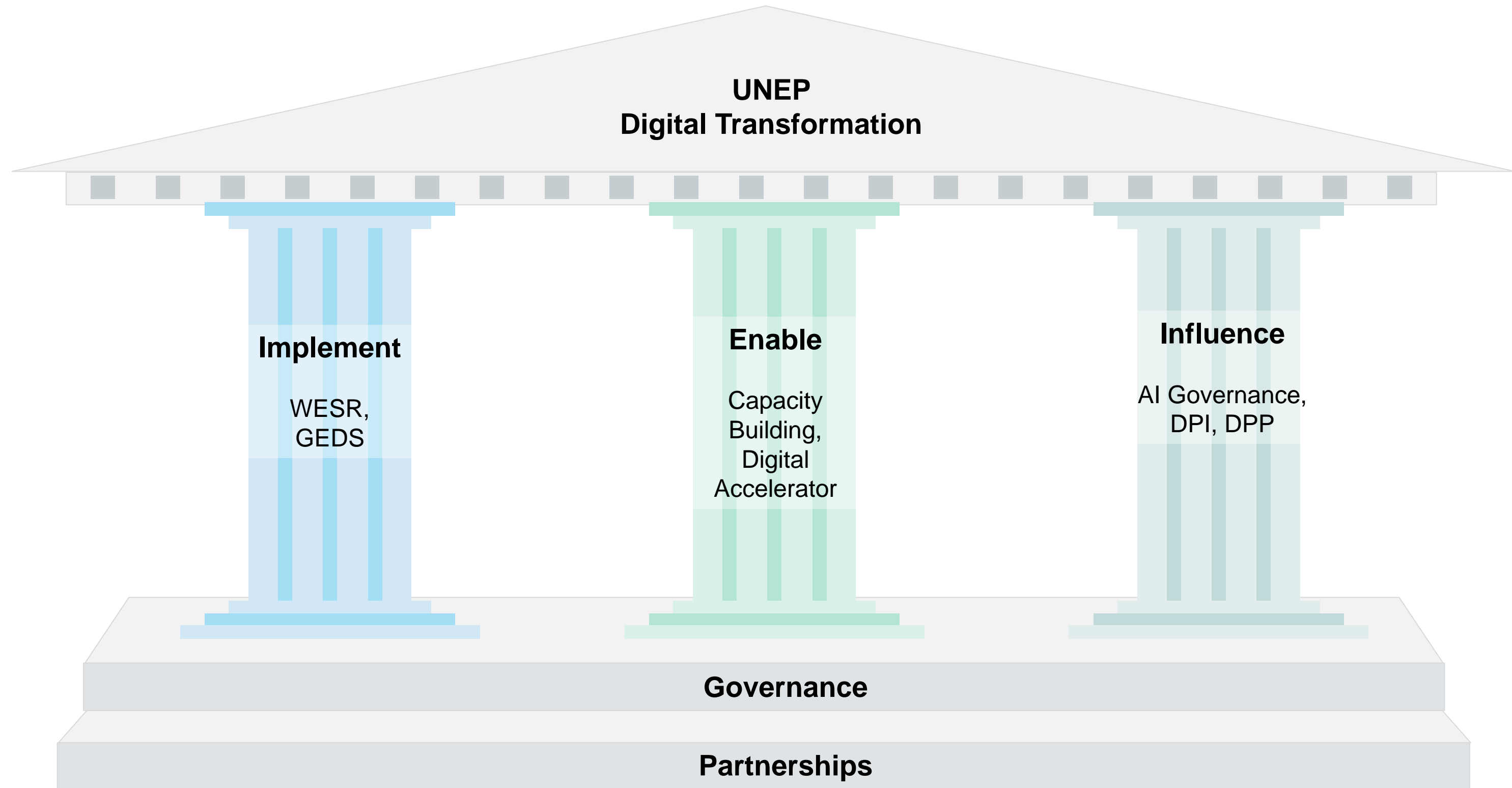


Sustainable Digitalization:

Ensuring the environmental sustainability of technology

UNEP Digital Transformation

The pillars of our work



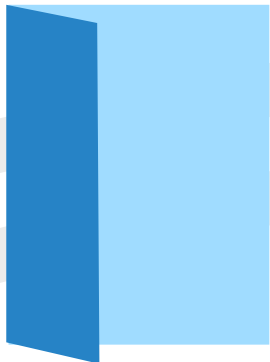
World Environment Situation Room (WESR)

A work in progress

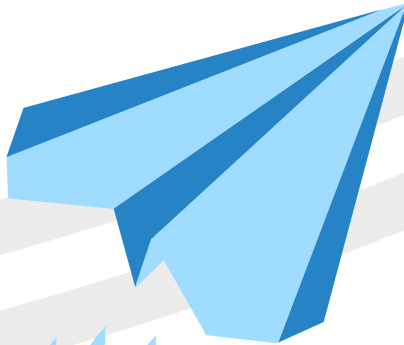
From Proof-of-concept...



Aggregator of platforms and data...



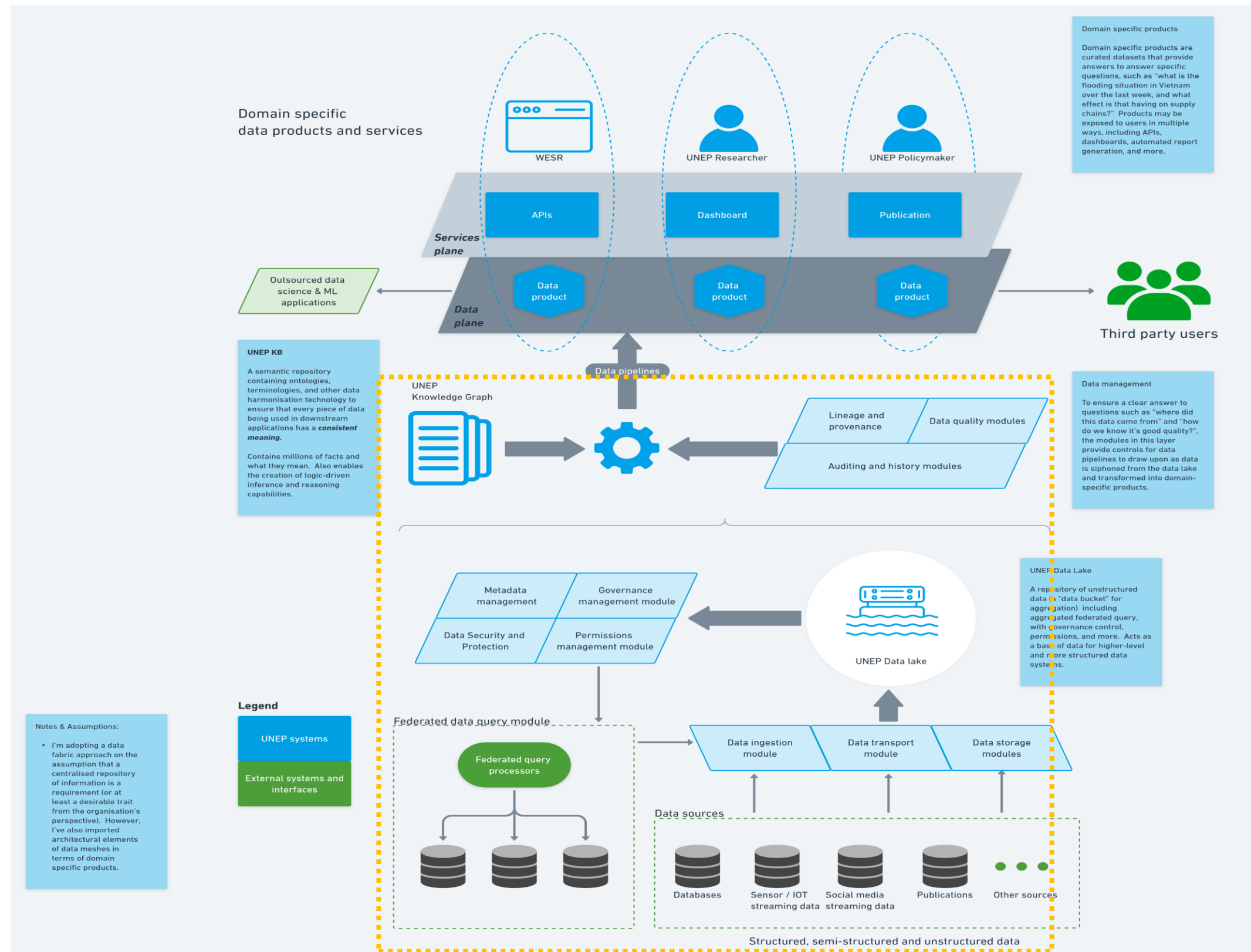
...to Production



...Full data platform with use cases

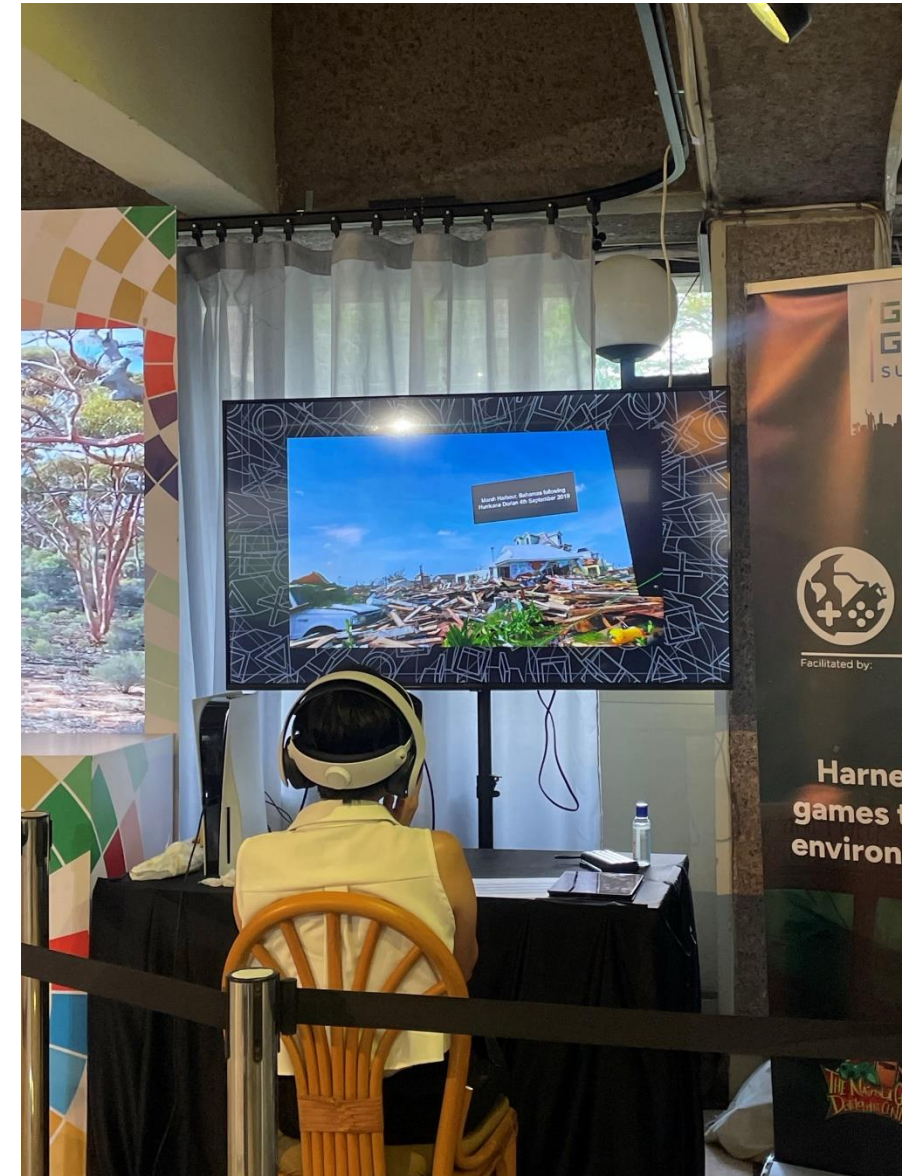
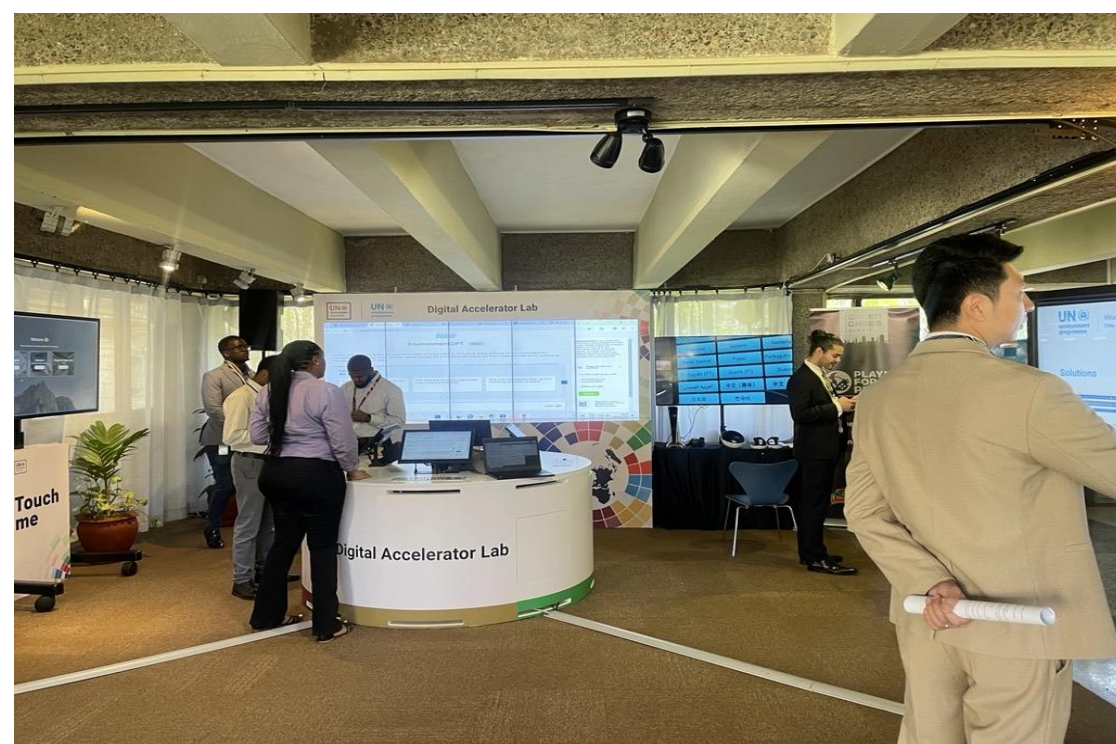
World Environment Situation Room (WESR)

Creating a “FUTURE-PROOF” Architecture



Digital Accelerator Lab at UNEA-6

Solutions, prototypes, TED-style talks and a lot of interest!

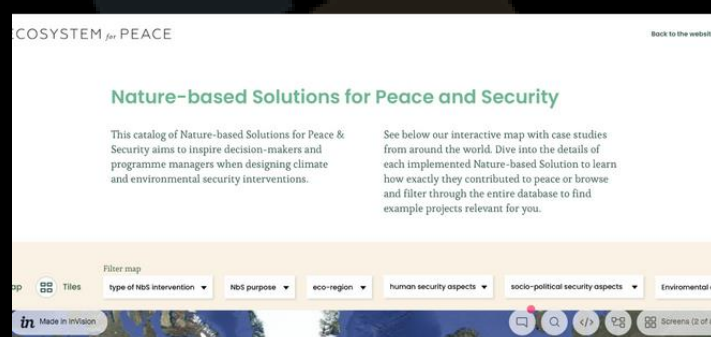
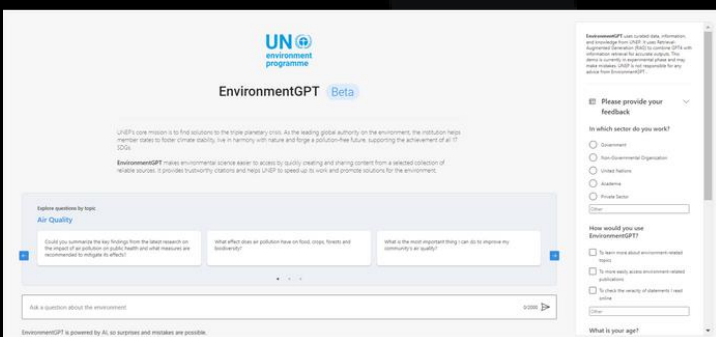
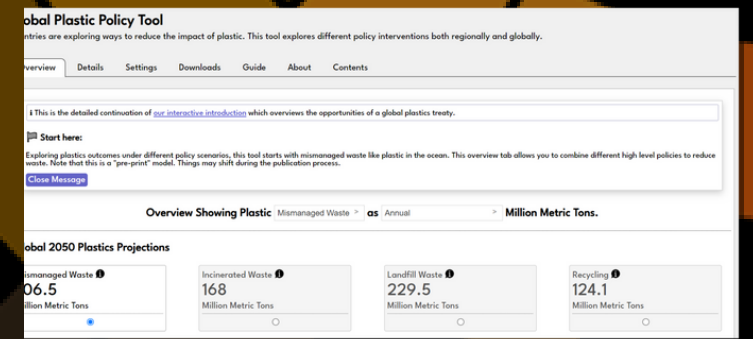
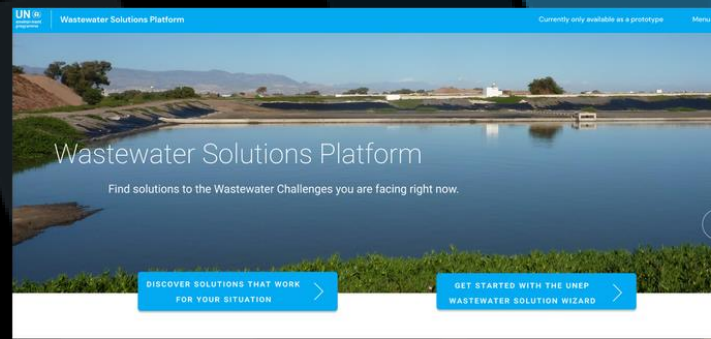
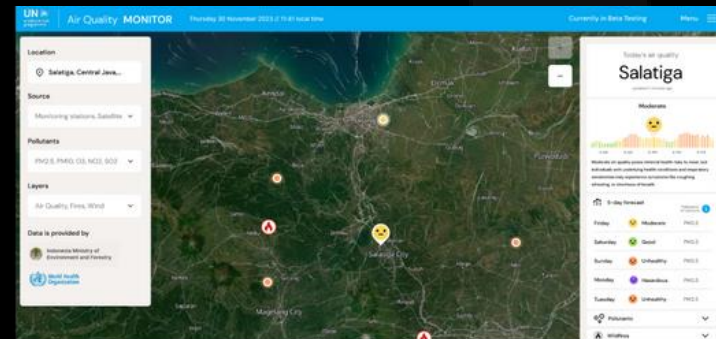
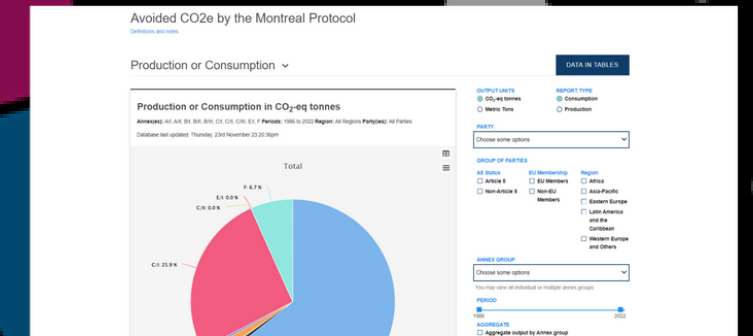
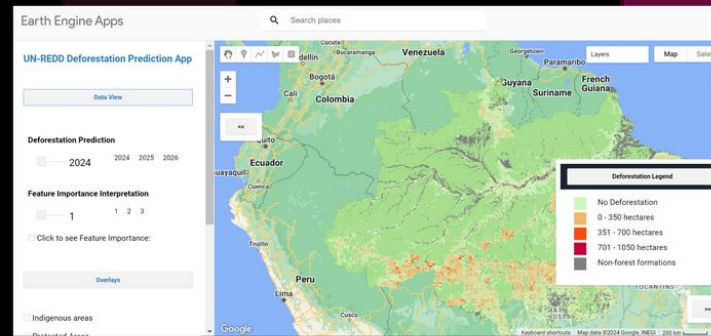
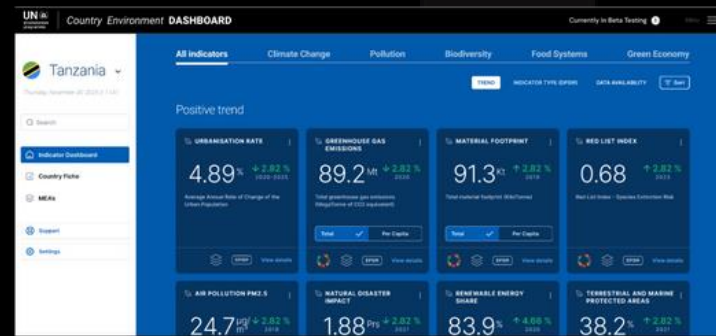
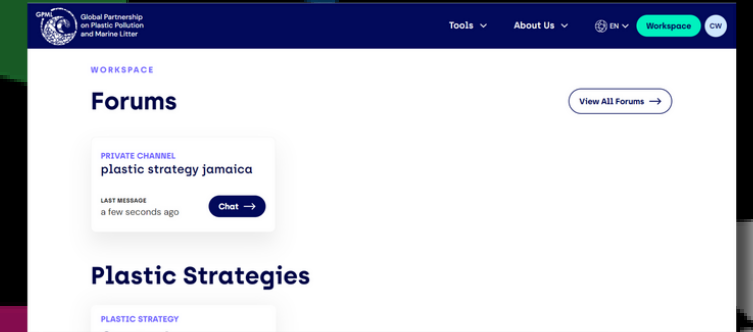
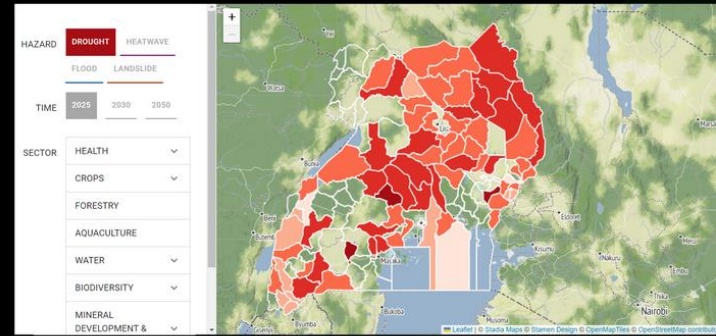


UNEP Digital Accelerator Lab – UNEA6 Exhibition

Prototypes

Solutions

Reports & Resources



EnvironmentGPT

Prototypes

Solutions

Reports & Resource

UN environment programme

EnvironmentGPT Beta

UNEP's core mission is to find solutions to the triple planetary crisis. As the leading global authority on the environment, the institution helps member states to foster climate stability, live in harmony with nature and forge a pollution-free future, supporting the achievement of all 17 SDGs.

EnvironmentGPT makes environmental science easier to access by quickly creating and sharing content from a selected collection of reliable sources. It provides trustworthy citations and helps UNEP to speed up its work and promote solutions for the environment.

Explore questions by topic

Air Quality

Could you summarize the key findings from the latest research on the impact of air pollution on public health and what measures are recommended to mitigate its effects?

What effect does air pollution have on food, crops, forests and biodiversity?

What is the most important thing I can do to improve my community's air quality?

Ask a question about the environment 0/2000

EnvironmentGPT is powered by AI, so surprises and mistakes are possible.

Please provide feedback

In which sector do you work?

Government

Non-Governmental Organization

United Nations

Academia

Private Sector

Other

How would you use EnvironmentGPT?

To learn more about environmental topics

To more easily access environmental publications

To check the veracity of online information

Other

What is your age?

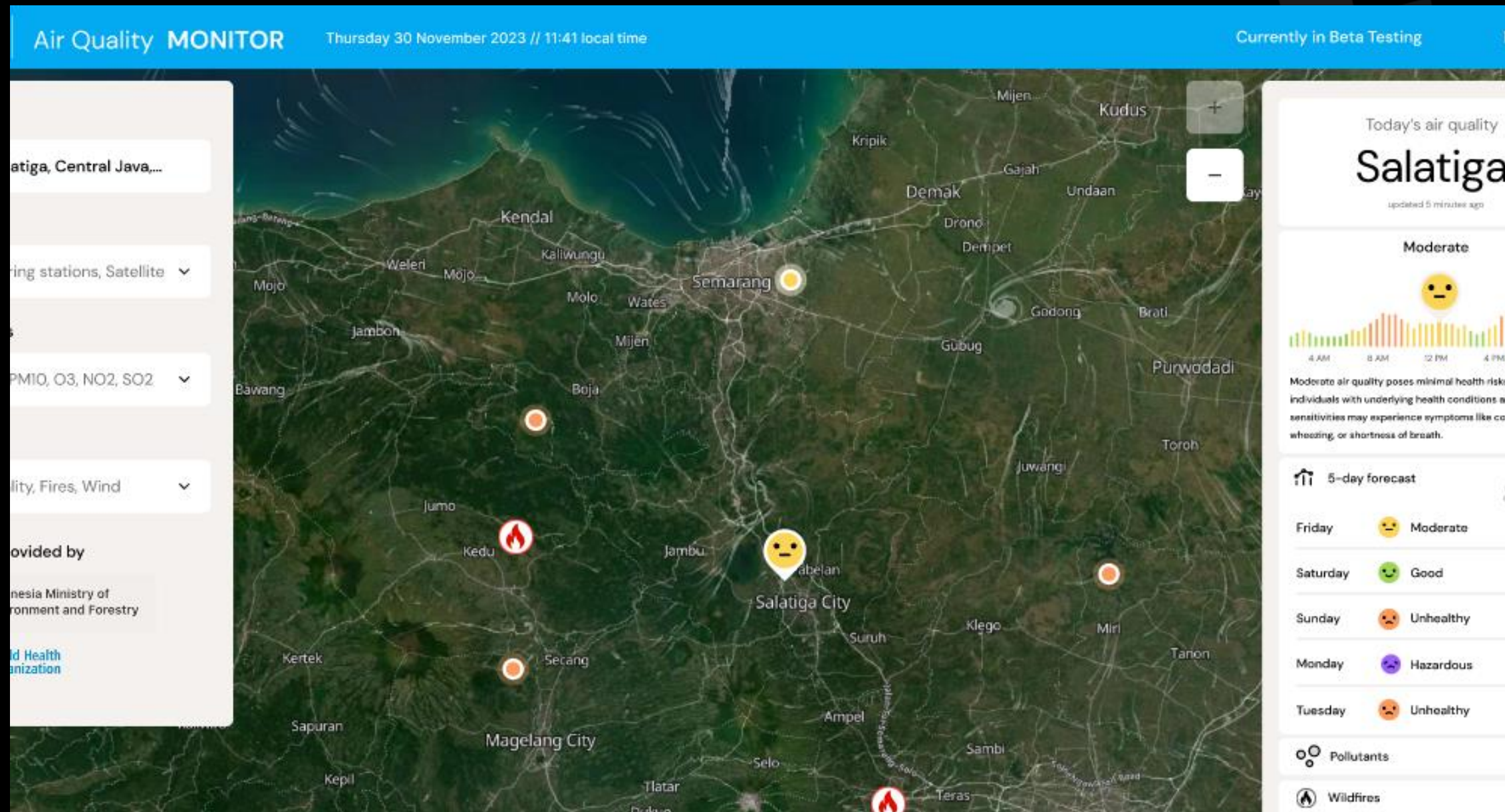
Showcases the power of AI to transform environmental science into understandable information

Air Quality Monitoring

Prototypes

Solutions

Reports & Resources



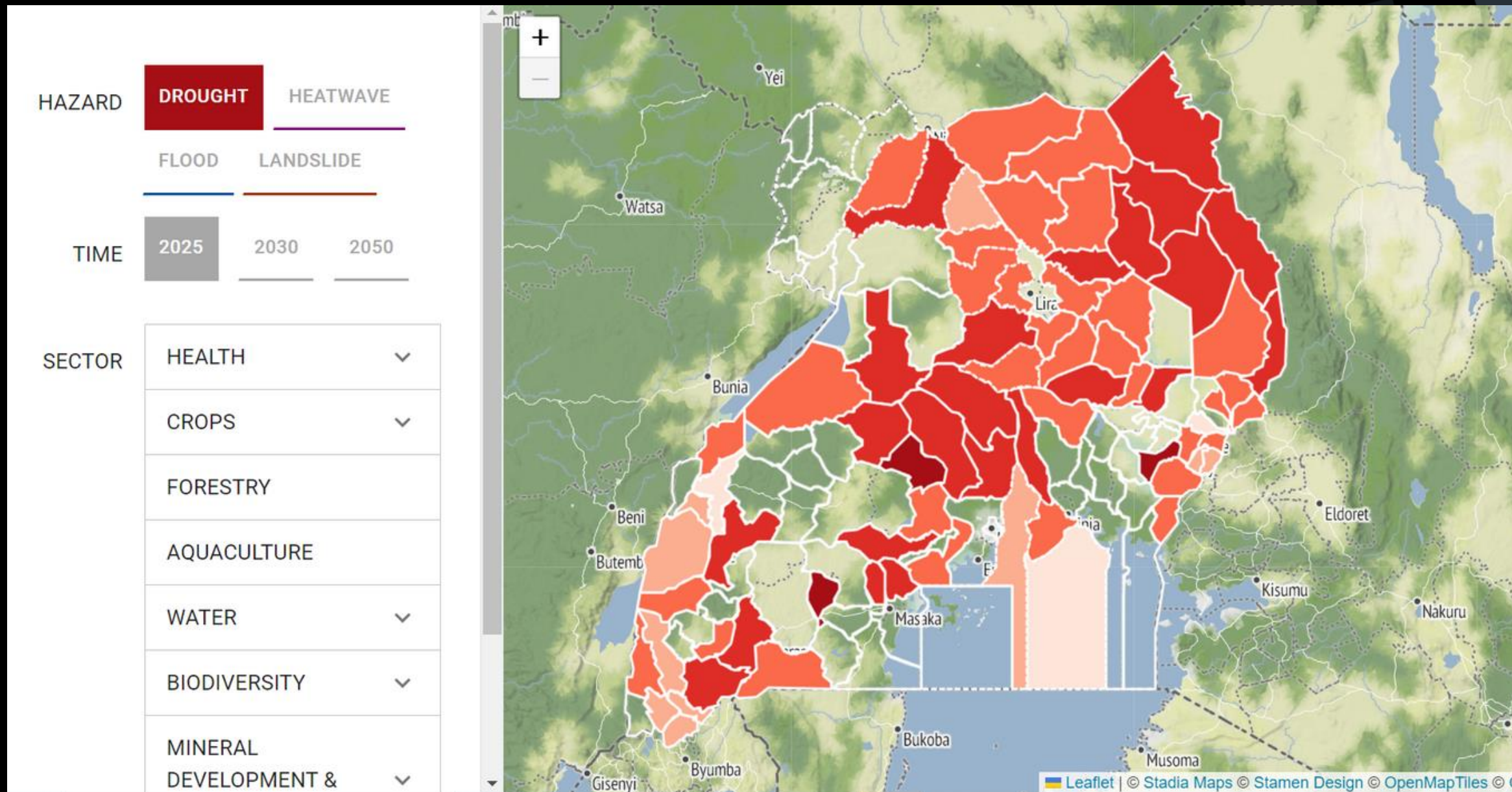
Increases the accessibility of scientific information about air quality

Climate Risk Management Digital Map

Prototypes

Solutions

Reports & Resources



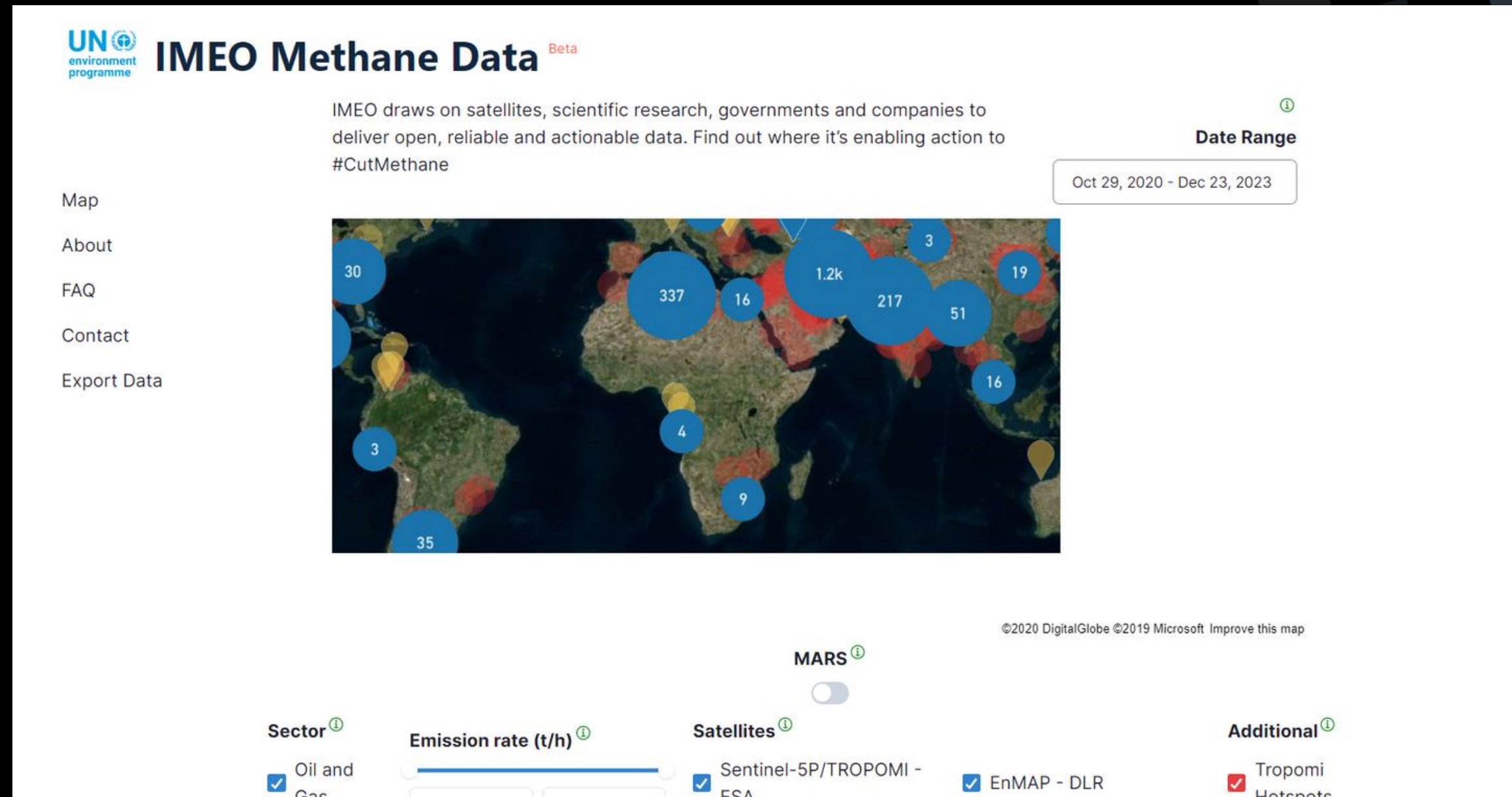
Provides countries with critical forecasts and information to tackle climate risks

IMEO Methane Data Platform

Prototypes

Solutions

Reports & Resource



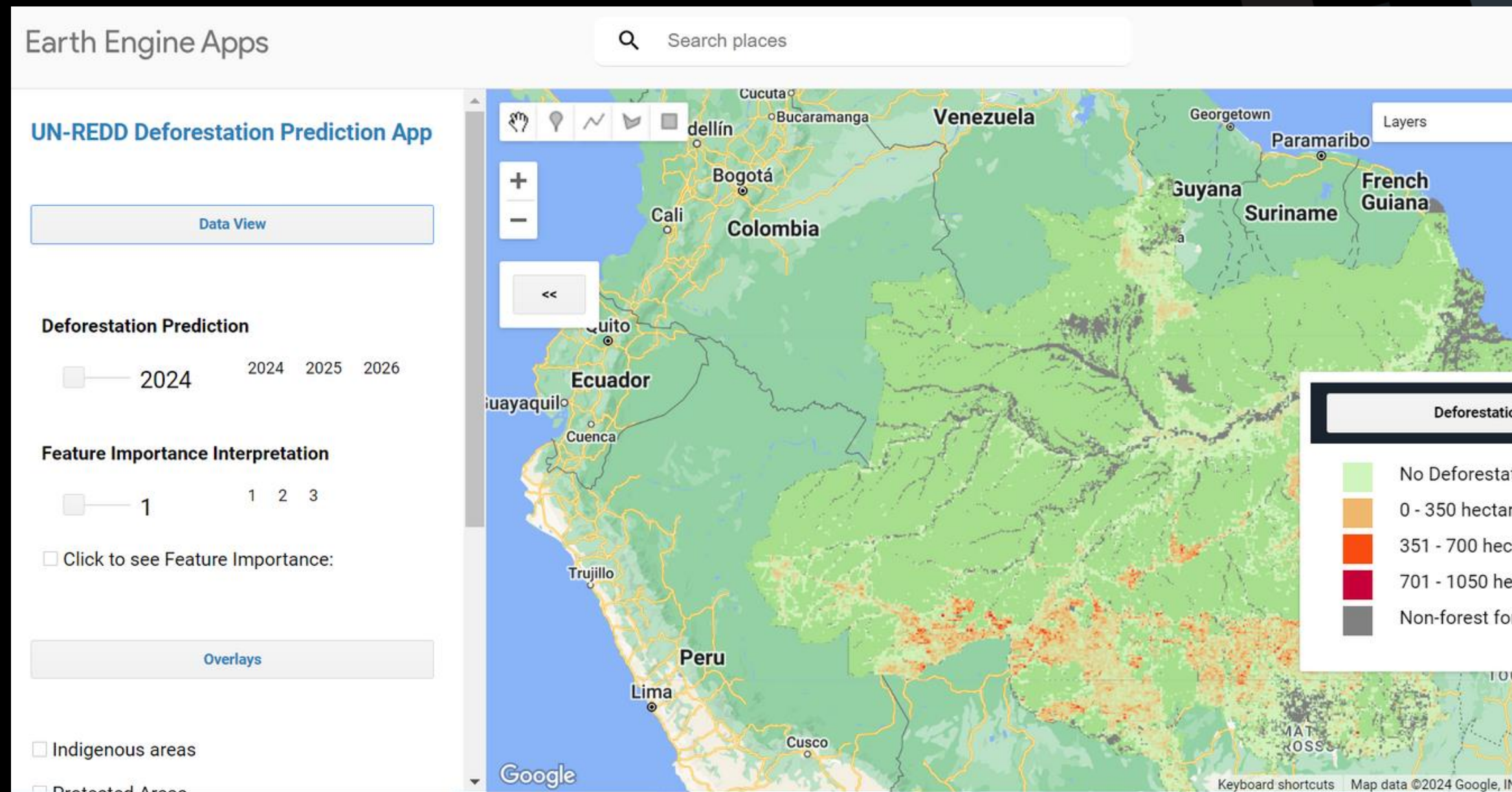
Monitors and issues alerts when methane emission sources are detected

Deforestation prediction tool

Prototypes

Solutions

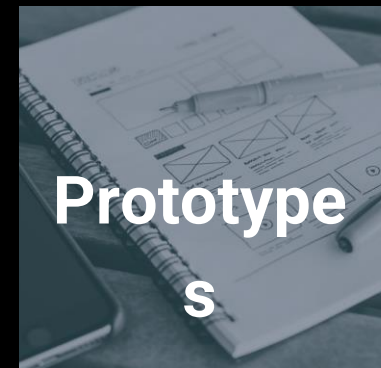
Reports & Resources



Facilitates action by identifying and predicting areas at risk of deforestation

Strata

Prototype



Solutions



Reports & Resources



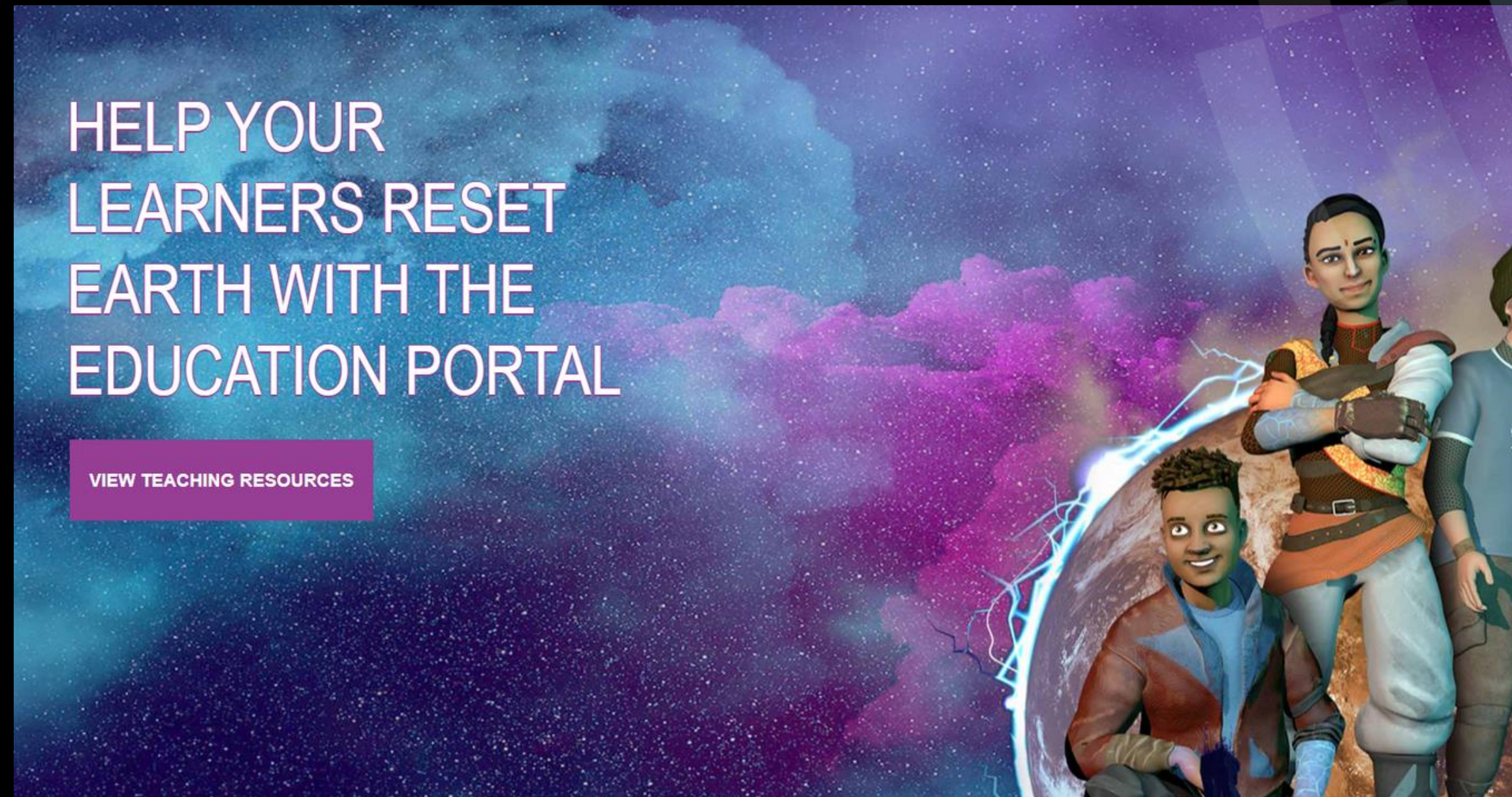
Allows users to identify, map and monitor environmental and climate stresses potentially driving threats to peace

Reset Earth Education Platform

Prototype
s

Solution
s

Reports &
Resources
s



Global campaign to educate future generations about ozone depletion dangers and solutions.

Sample Use Cases

Examples of WESR Use Cases

01

Environment GPT

Large Language Model (LLM) technology trained on scientific information to offer reliable information on environmental issues, including references to UNEP vetted literature.

02

Create your own

Data analysis according to the needs of the user and with the help of AI to translate natural language queries into custom visualizations, reports, dashboards, etc.

03

Solutions Space

Exchange space for member states to learn about implemented solutions including technology transfer and funding opportunities.

Sample Use Cases

Examples of WESR Use Cases

04

Country Profiles

Detailed information on the state of the environment per country, including investment opportunities, status of MEA and SDG compliance, and downloadable country briefs.

05

Scenarios

Combining different datasets to create cross-cutting environmental impact scenarios that expose cause-and-effect relationships of different environmental phenomena and other social and economic phenomena.

06

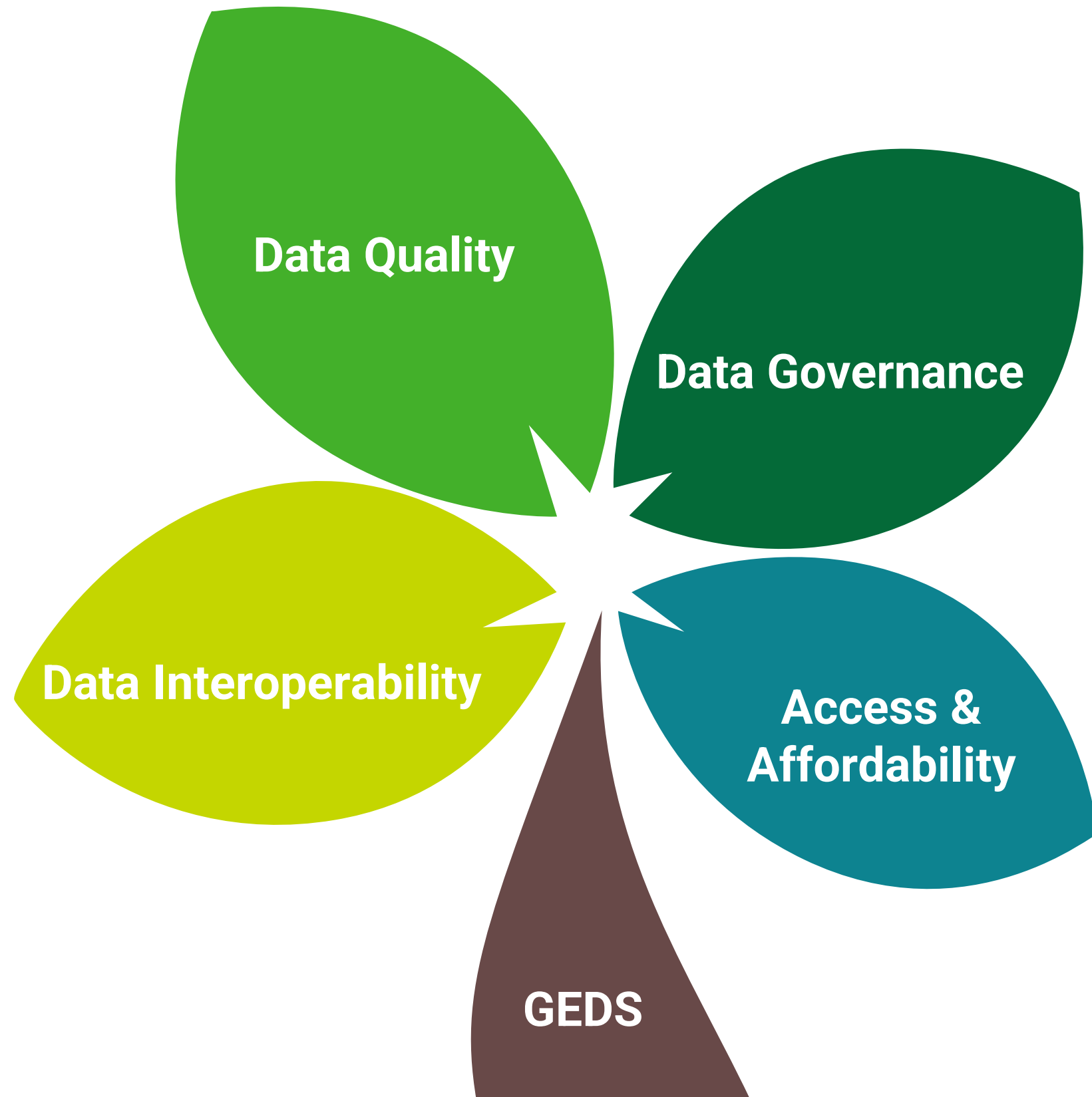
Federated Platforms






Easy access in one place to several reliable external platforms and key environmental data sources.

And more...

Global Environmental Data Strategy

Which elements should be included?



-  **Data Quality:** How do we ensure environmental datasets are fit for purpose and who gets to give the stamp of approval? (i.e. a 'clearing house' function)
-  **Data Interoperability:** A framework for the global exchange of environmental data
-  **Data Governance:** Best practices for environmental data collection, classification, management and sharing
-  **Access & Affordability:** How do we ensure equal access to, use of and benefits to all from environmental data?
-  Any other element?



THANK YOU

unep-digitaltransformation@un.org

