

منتدى الدوحة للبيانات

من أجل الابتكار في التنمية المستدامة

23-22 أكتوبر 2024

DOHA DATA FORUM

FOR INNOVATION IN SUSTAINABLE DEVELOPMENT

October 22-23, 2024



Addressing Complex Risks for De-risking Development

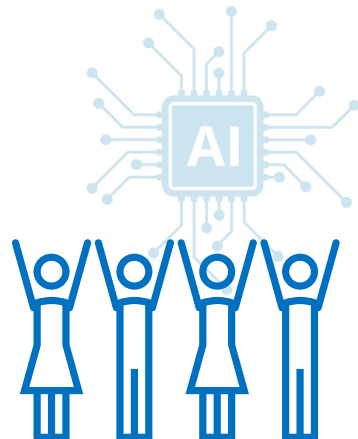
Contents

- Sustainable Development Goals and AI
- Complex Risks and De-risking Development
- Data analytics to Sustainable Development Impact and Examples of AI-application
- Key gaps to address

Sustainable Development Goals and AI



- AI and other emerging technologies is a key focus of the **Global Digital Compact**.
- Documented evidence of the potential of AI acting as an **enabler on each of the SDGs**.
- **Significant increase** of the number of real-life AI deployments.
- *UNDP wants to be a leading voice for positive AI use for people and planet, while mitigating potential negative impact*



EU Statement – UN Global Digital Compact: Deep Dive on AI and other emerging technologies
 25 May 2023, New York – Statement on behalf of the European Union and its Member States at the 77th Session of the United Nations General Assembly Global Digital Compact Deep Dive on Artificial Intelligence and other emerging technologies



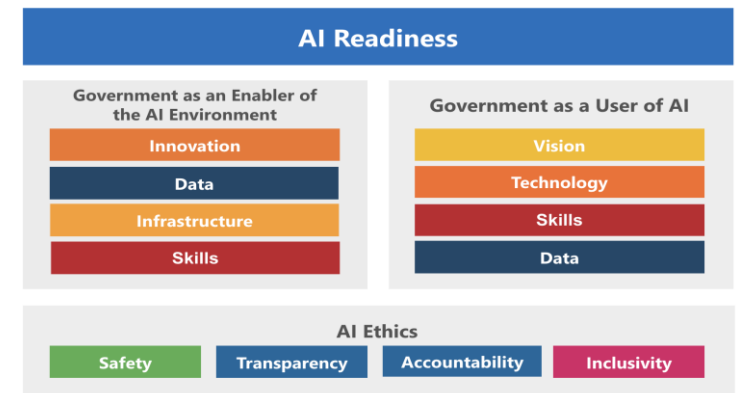
Artificial Intelligence Think DEEP

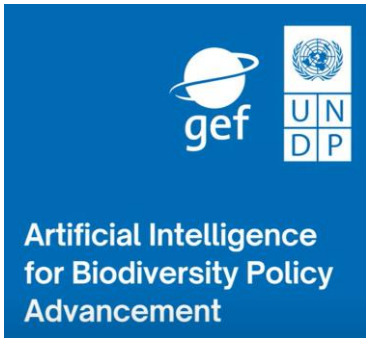
Demystify and democratise - we need everyone in society to understand the terminology, potential, usage, and risks of AI.

Empower - we need to move beyond awareness raising, and support people to use AI to improve their lives and livelihoods.

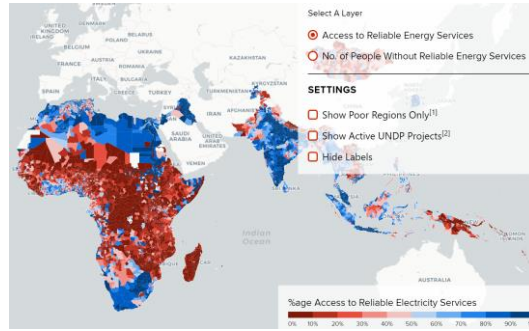
Explore and experiment - AI needs to be tested in a safe and secure way, to understand how it can have the greatest positive impact.

Protect - we must put people, and their rights and safety, at the centre. This includes tackling issues of bias, and ensuring accountability in AI usage.





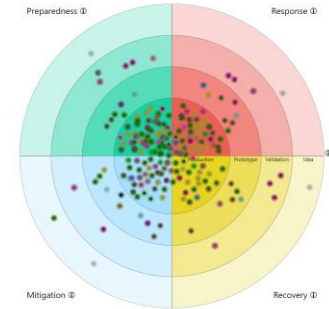
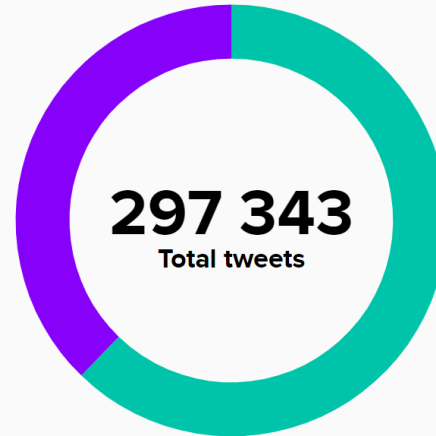
AI is already being used widely in UNDP across all thematic areas like Crisis Management, Gender, and Climate, as well as operational areas such as Human Resources and Operations



- All
- Education
- Politics
- Reproductive Rights

TWEETS BY USER GENDER*

- Men **185 072 (62.2%)**
- Women **112 271 (37.8%)**



Your key SDGs

OSDG identified 2 key SDGs for your text input.

6 CLEAN WATER AND SANITATION

15 LIFE ON LAND

Complex Risks in Sustainable Development



- **Systemic risks** = structural factors associated with a country's economy, society, environment and governance + its external relationships (e.g. trade, aid, investment, debt, geopolitical alignments) + the state of global public goods
- **Proximate risks** = significant changes in internal and external conditions that are likely to trigger crisis or disaster in the short- to medium-term

De-risking Development = a Key Determinant of Progress or Regression on the SDGs

For that

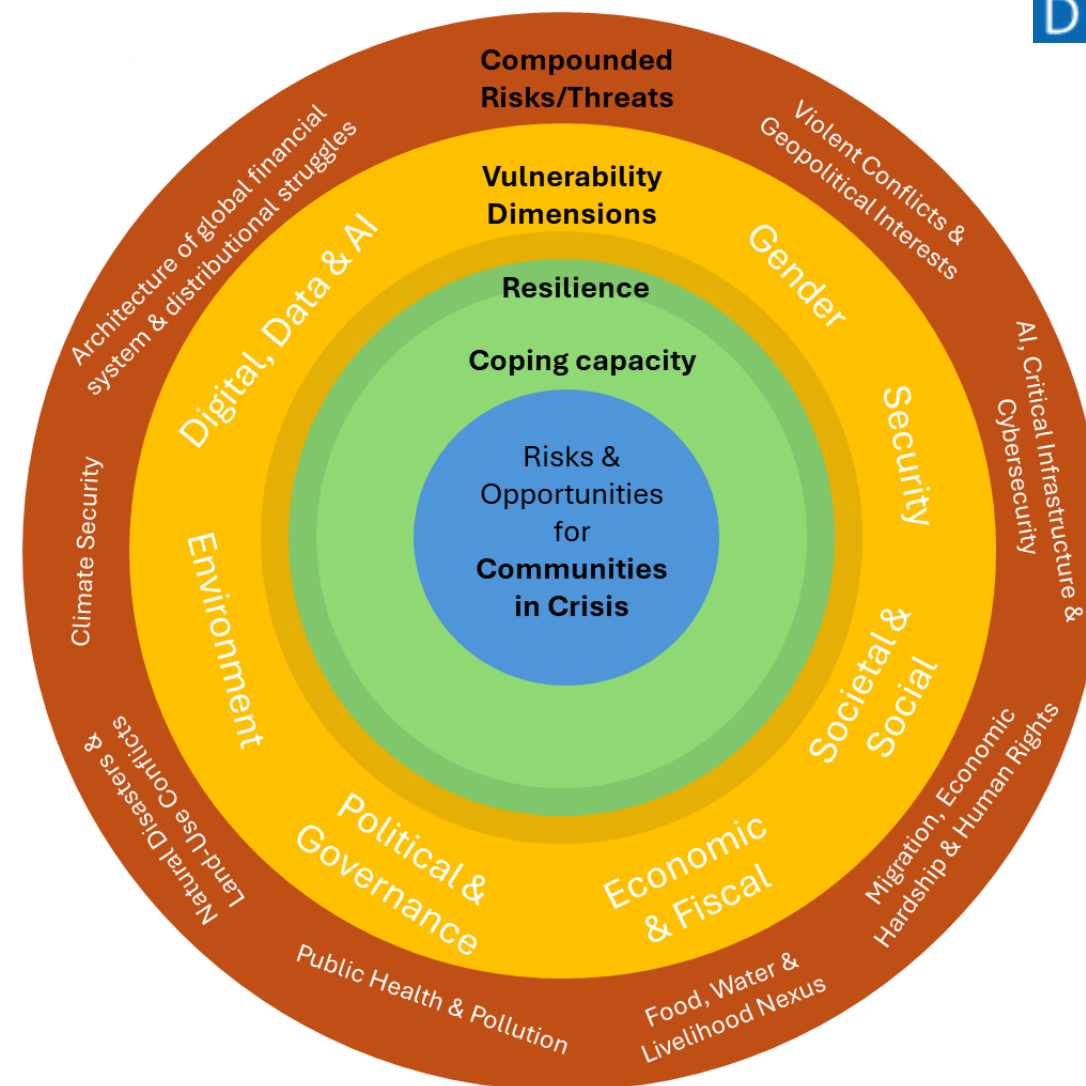
*past development **gains can be protected***

*there can be early **exit from cycles of fragility and crisis***

*structural dependence on **humanitarian solutions can be reduced***

*'**whole-of-system**' resilience can be built or reinforced*

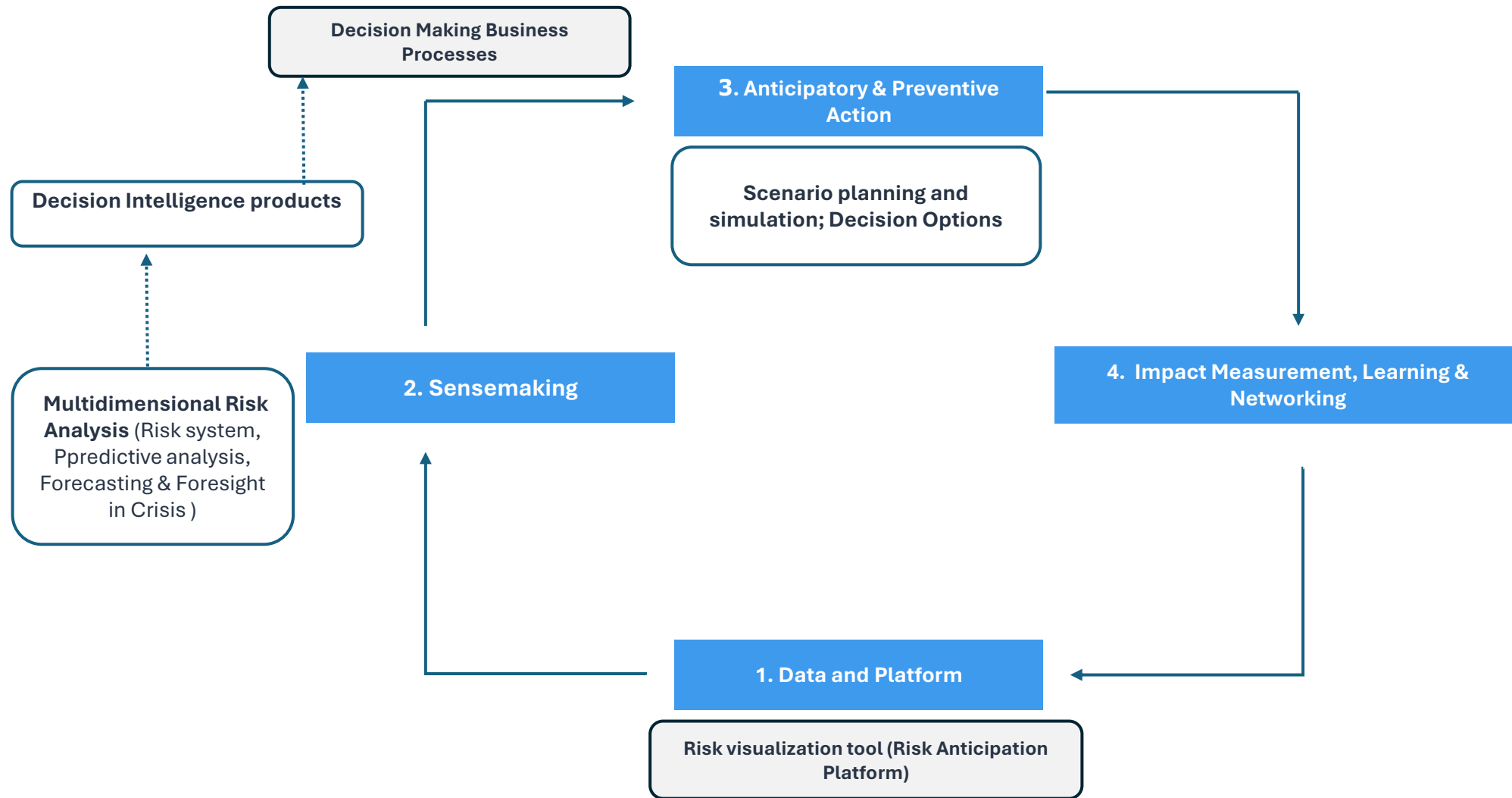
*and **hope sustained** in the most challenging circumstances*



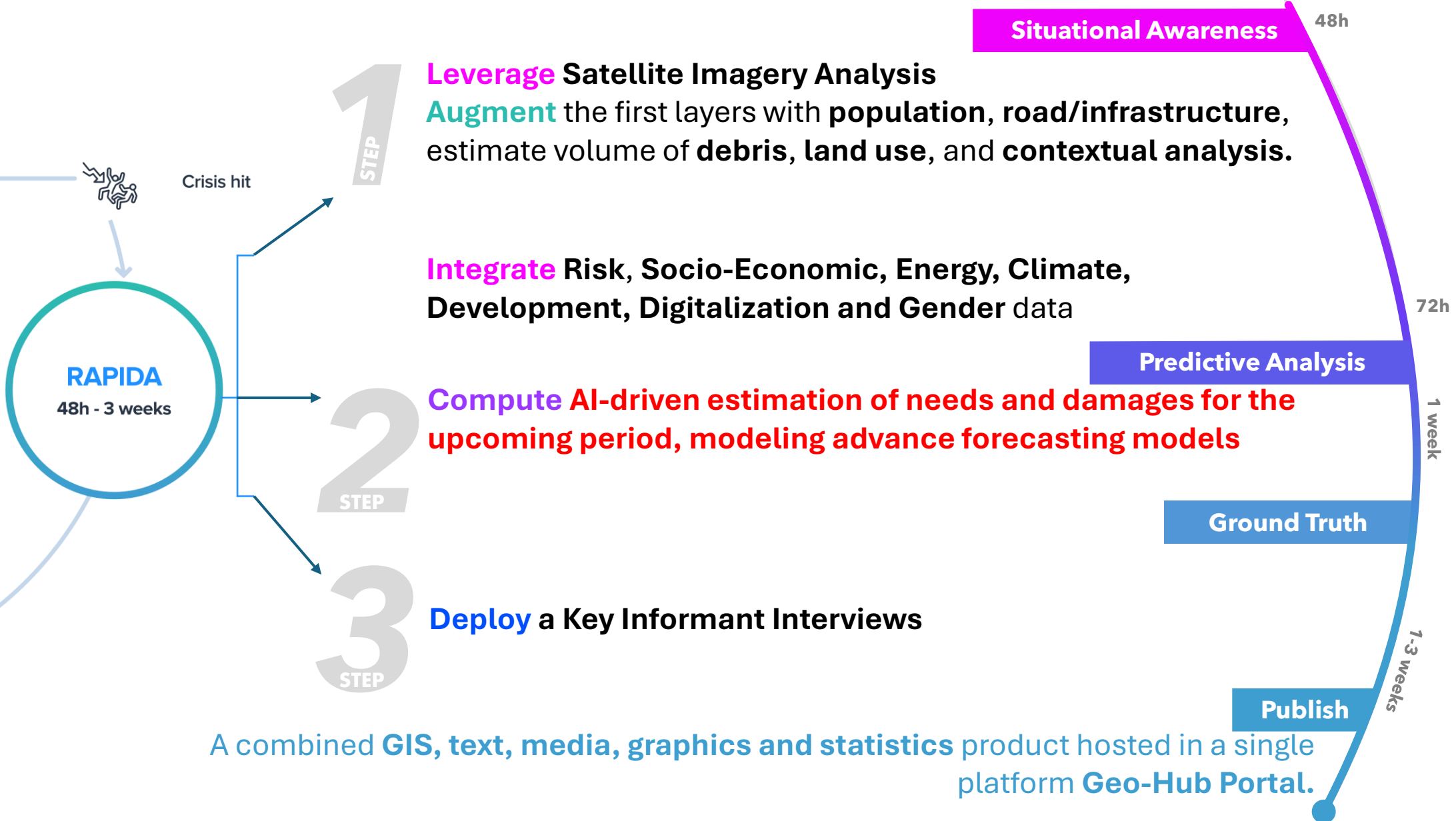
Data analytics to Sustainable Development Impact



Providing futures-informed decision intelligence to transform warnings about at-risk situations into anticipatory and preventive action.

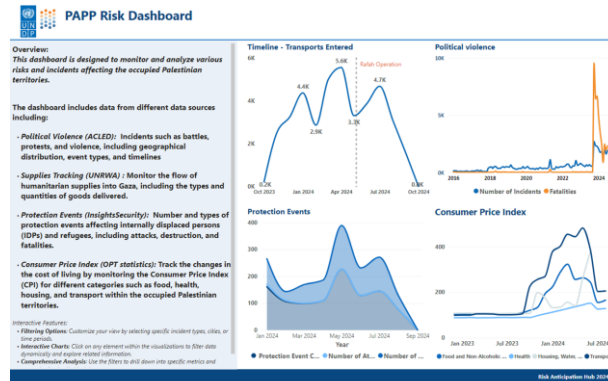
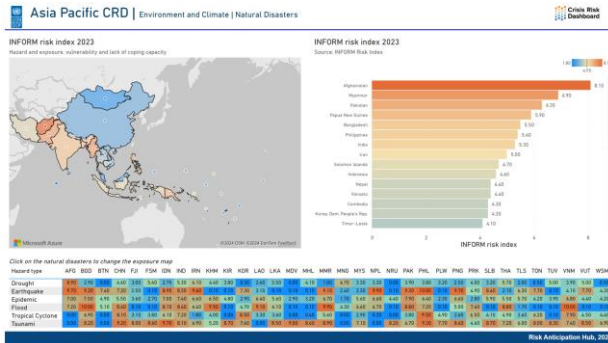


1. Data: AI application to Rapid Assessments

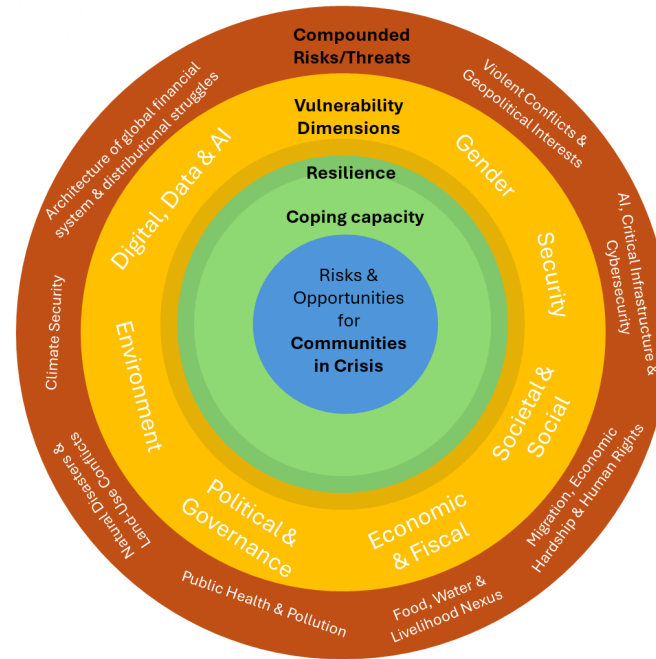


2. Dynamic Risk Analysis with Application of AI

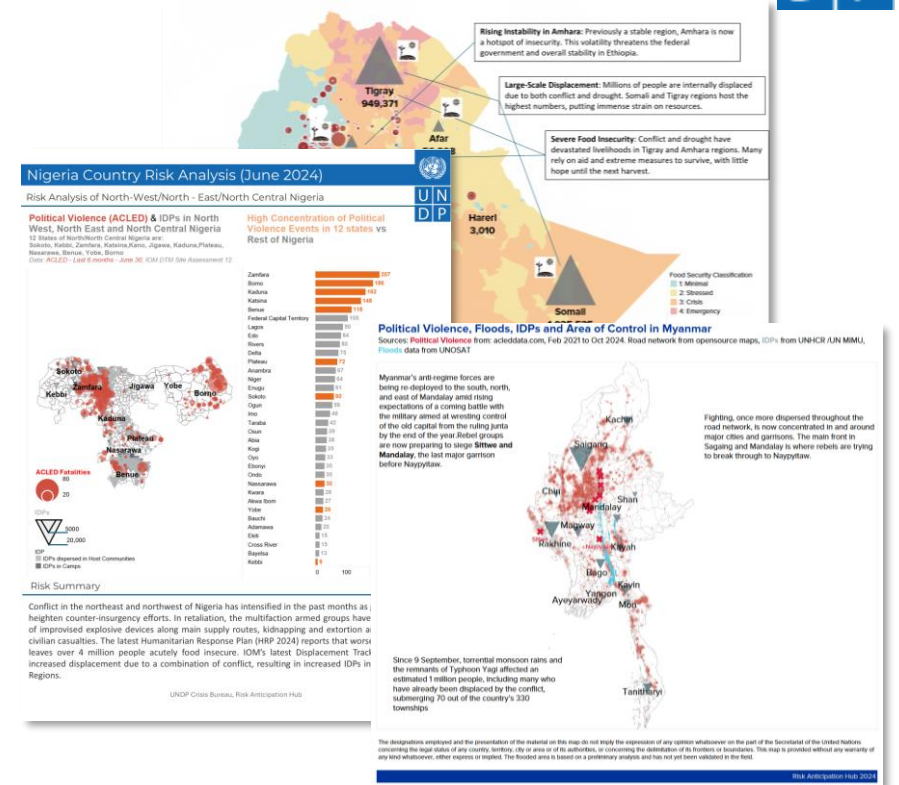
1. Data



2. Complex System Lens to Multi-dimensional Risks



3. Early Warning & Risk Analysis



Data & Platform

Sensemaking



2. Experiments with Advanced Analytics and AI

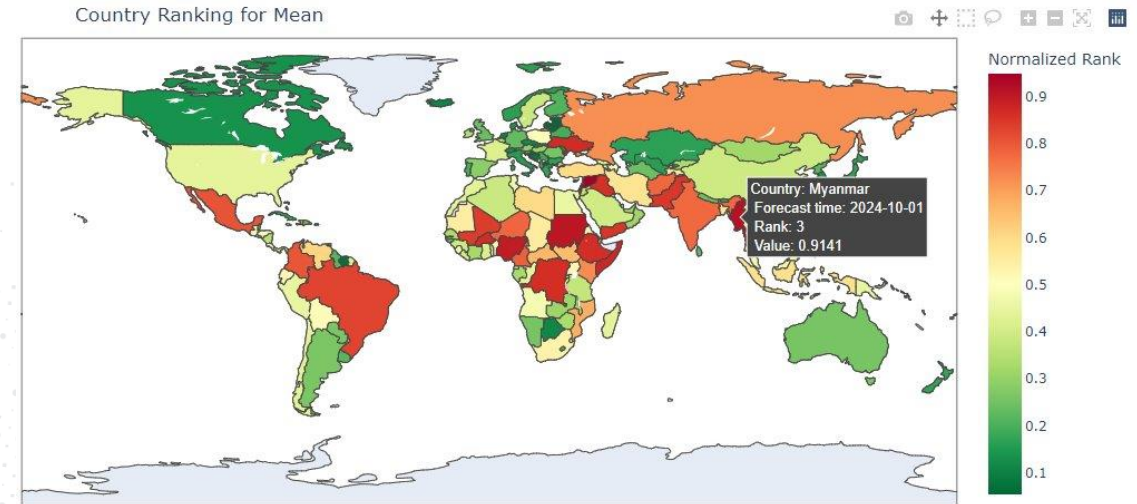


Social Media Analysis

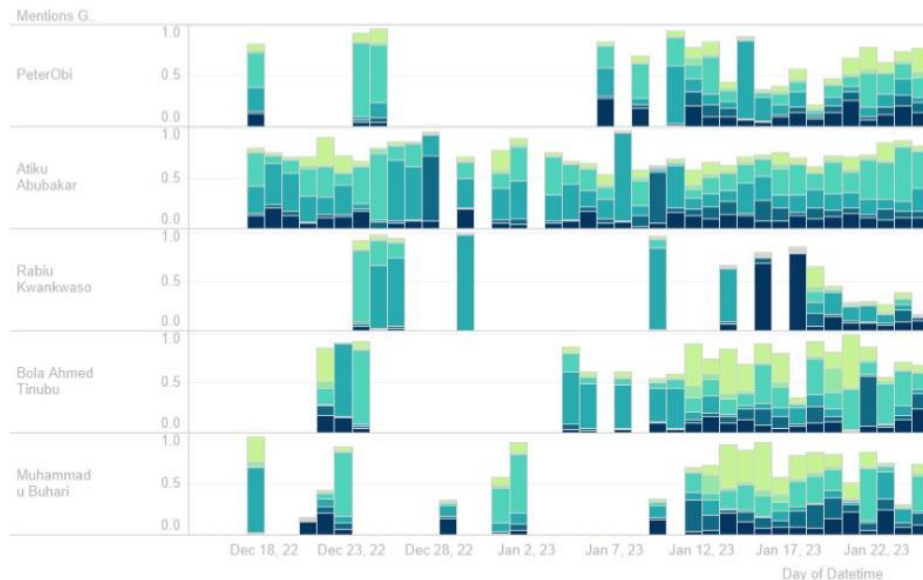
- Monitor and analyze public discussions about a specific topic, such as elections
- Understand the changing dynamics of local contexts using NLP

News Media Listening

- Conduct social listening on news media collected through GDELT to monitor the pulse of events
- Utilize OpenAI technology to summarize articles to quickly convey content



Candidate Trends - Emotions



Forecasting

- Experiment with and aggregate models of conflict forecasts to understand future risks and inform anticipatory policy making

Multi-Dimensional Analysis

- Produce multi-faceted analyses using various traditional and machine learning methods to shed insights into crises contexts

Key gaps to address

Data gap: Expanding diverse, quality and accurate datasets, potentially tapping into big data sources

Interconnection gap: Applying system lens and exploring inter-system boundaries of different systems

Data and Decision gap:

- i. Combining qualitative analysis and foresight with AI-deployed data analytics;
- ii. Availing policy and decision cases/options;
- iii. Integrating horizontally and vertically the organisational processes; and
- iv. Integrating human cognitive aspects (story-telling, applying local/field knowledge, etc.)





Thank You

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