
Scaling up
understanding of
climate and disaster
risk for EW4All



UNDRR

UN Office for Disaster Risk Reduction



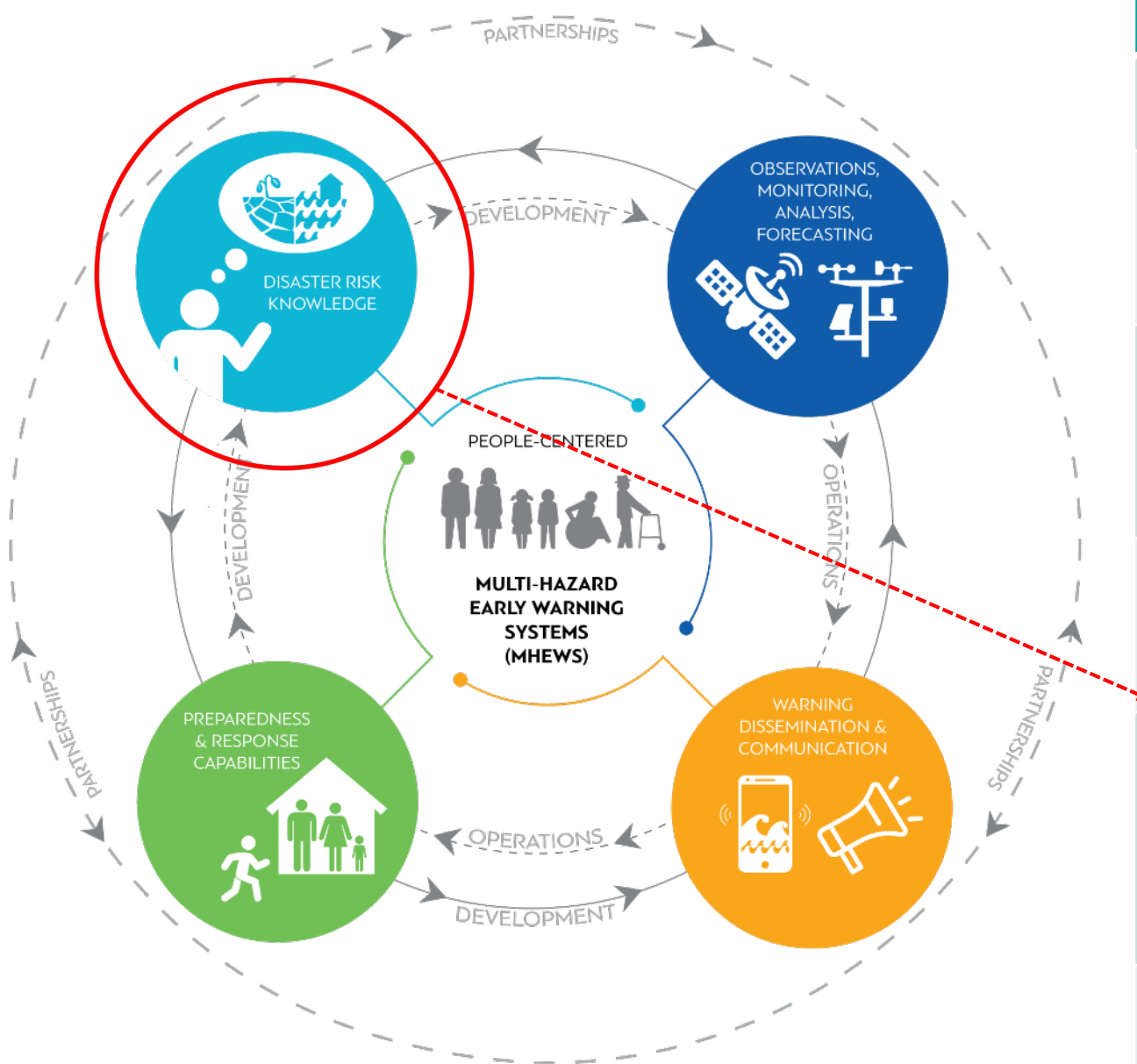
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SENDAI FRAMEWORK

FOR DISASTER RISK REDUCTION 2015-2030

The Four Elements of Early Warning System



Sendai Framework: Target G

G-1	Number of countries that have MHEWS (Compound G2-G5)
G2	Number of countries that have multi-hazard monitoring and forecasting systems [EW Element: Observation and forecasting]
G3	Number of people per 100,000 that are covered by early warning information through local governments or through national dissemination mechanisms [EW Element: Warning dissemination]
G4	Percentage of local governments having a plan to act on early warnings [EW Element: Preparedness to response]
G5	Number of countries that have accessible, understandable, usable and relevant disaster risk information and assessment available to the people at the national and local levels [EW Element: Disaster Risk Knowledge]
G6	Percentage of population exposed to or at risk from disasters protected through pre-emptive evacuation following early warning.



Global status of multi-hazard early warning systems

Target G


SENDAI FRAMEWORK
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Launched on



13 OCTOBER

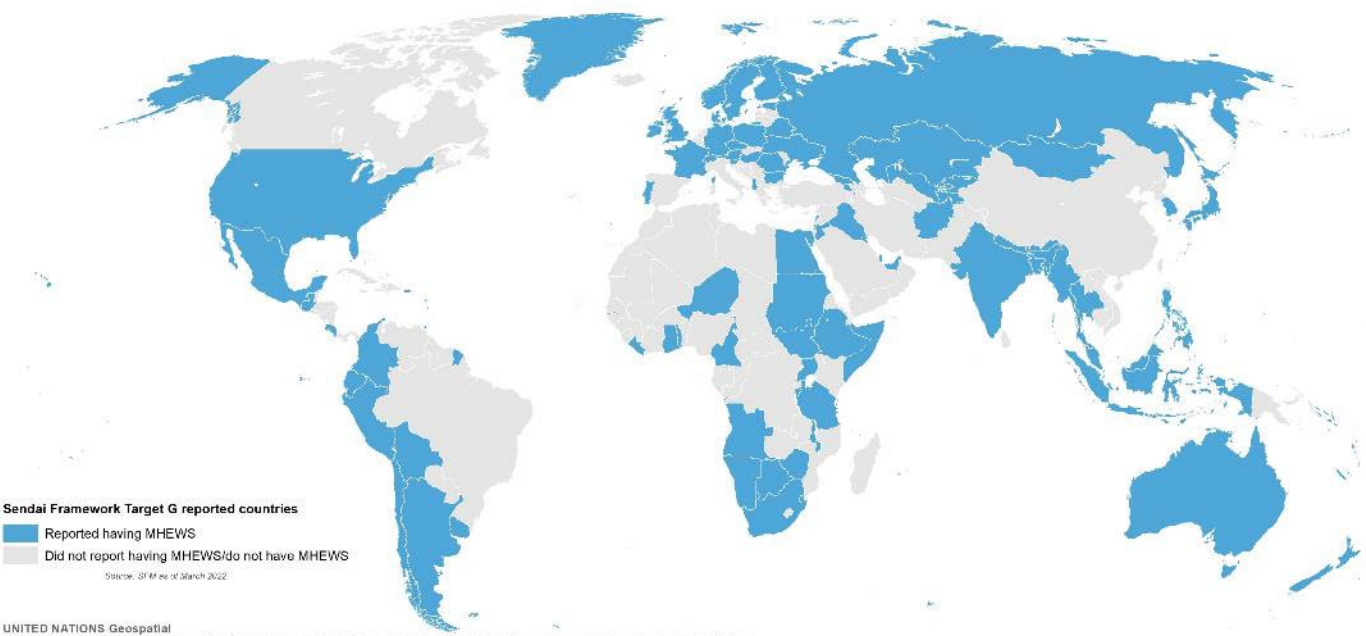
**INTERNATIONAL DAY
FOR DISASTER RISK REDUCTION**

A baseline report
for EW4ALL



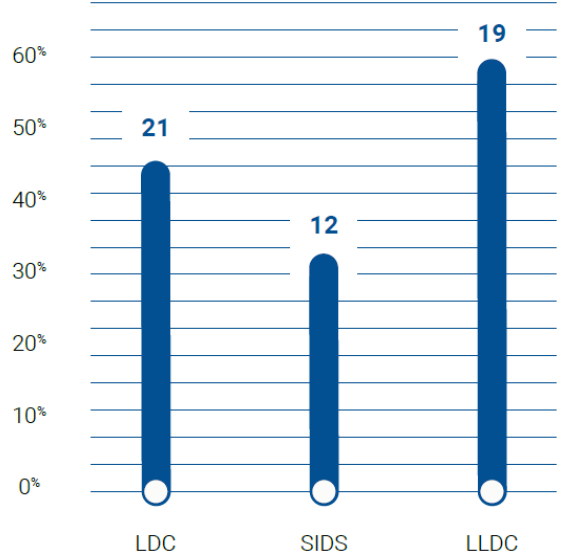
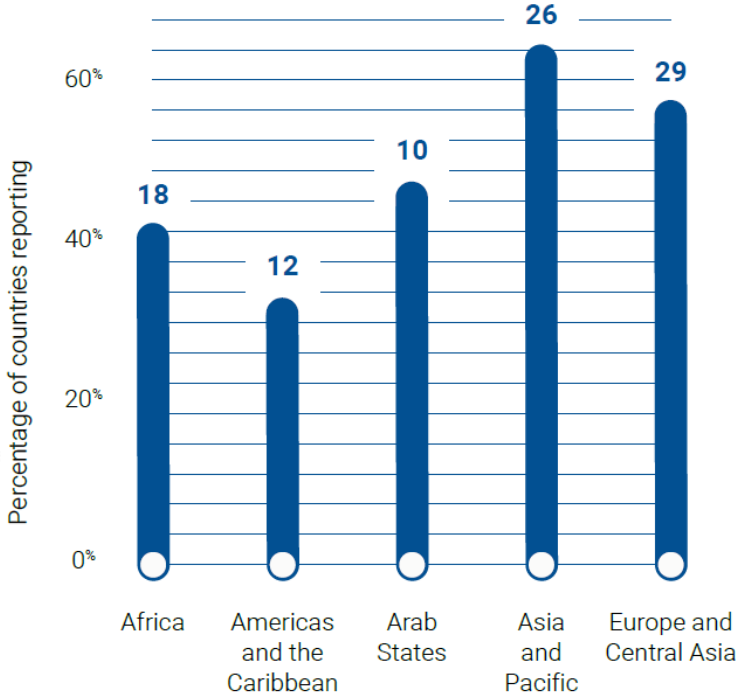
<https://www.undrr.org/publication/global-status-multi-hazard-early-warning-systems-target-g>

Only half of the world is covered through an early warning system



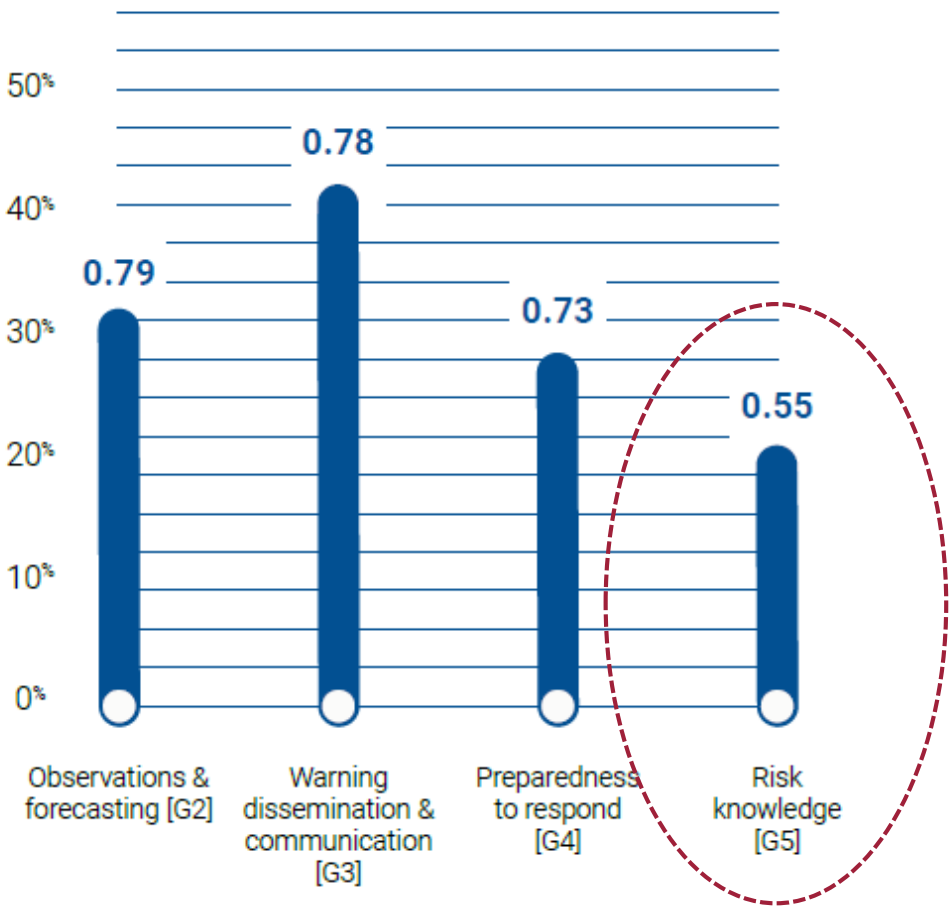
UNITED NATIONS Geospatial
 The boundaries and names shown on this map do not imply official endorsement or acceptance by the United Nations.
 Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.
 Final boundary between the Republic of Sudan and the Republic of South Sudan has not yet been determined.
 A dispute exists between the Governments of Argentina and the United Kingdom of Great Britain and Northern Ireland concerning sovereignty over the Falkland Islands (Malvinas).

The situation is worse in **SIDS (1/3rd)**, **LDCs (46%)** and **Africa (40%)** and the **Americas and the Caribbean (34%)**

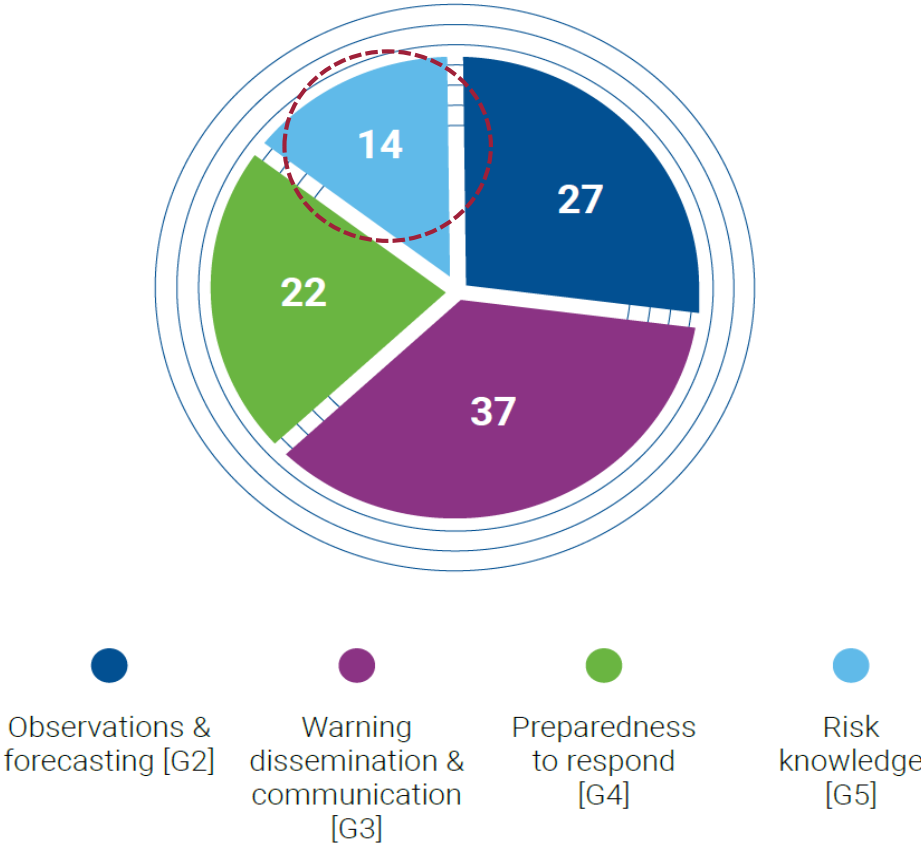


Where MHEWS exist, there are substantial gaps in risk knowledge and performance

Average scores of MHEWS Elements



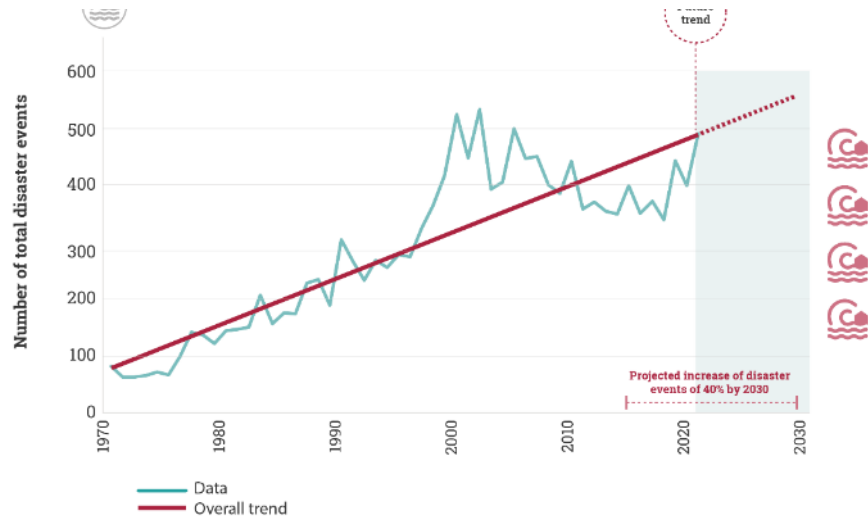
Contribution of MHEWS Elements in overall MHEWS score



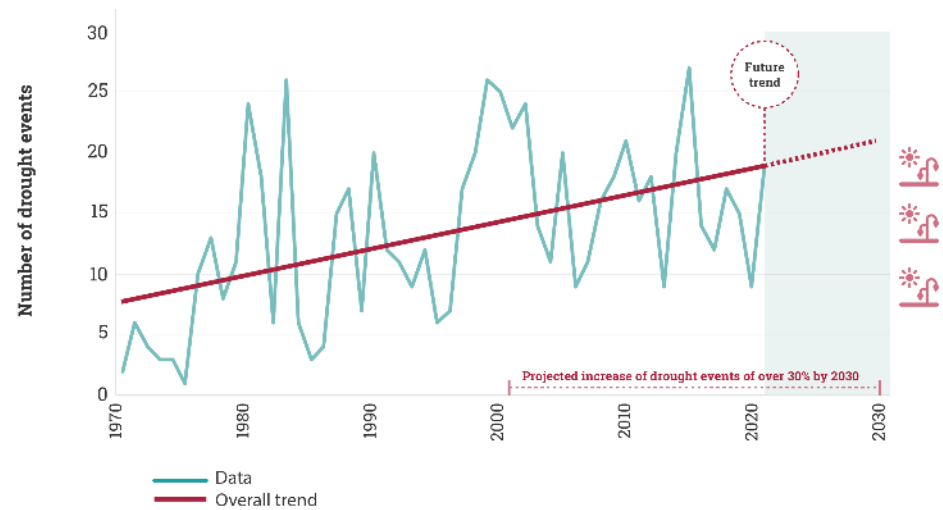
Source: Sendai Framework Monitor; All data cumulative as of Mar 2022

Urgent need to identify and reduce climate-driven hazards and impacts

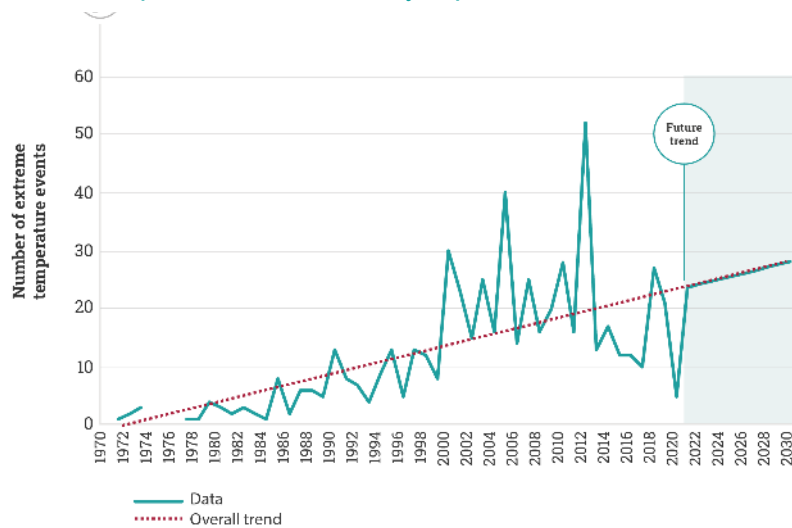
Number of disasters per year globally may increase by 40% by 2030



Droughts may increase by 30% between 2001 and 2030



Extreme temperature events may triple between 2001 and 2030



- Increasing frequency and intensity of disasters and extreme events
- Changing nature of hazards
- Growing vulnerability and exposure to climate risks

Risk knowledge: Not just tracking hazards...



Need an improved understanding of:

- Interconnected and cascading nature of risks and impacts
- Secondary tertiary impact of hazard events
- How vulnerability impacts early warning effectiveness
- Disaggregated data and identification of at-risk groups
- Exposure patterns
- Disaster loss accounting
- Climate projections
- Inclusion of local/indigenous knowledge

Toward a core package of risk knowledge

1. Production

Countries have a minimum capability (global/national collaboration)

2. Access

Access to standardized, interoperable and updated risk information

3. Application

Development of institutional capacity for decision-making for early warning

4. Monitoring and Evaluation

Monitoring the availability and effectiveness of early warning systems (Target G)

5. Governance/Collaboration/Inclusion

Strengthened collaboration between key ministries and other stakeholders

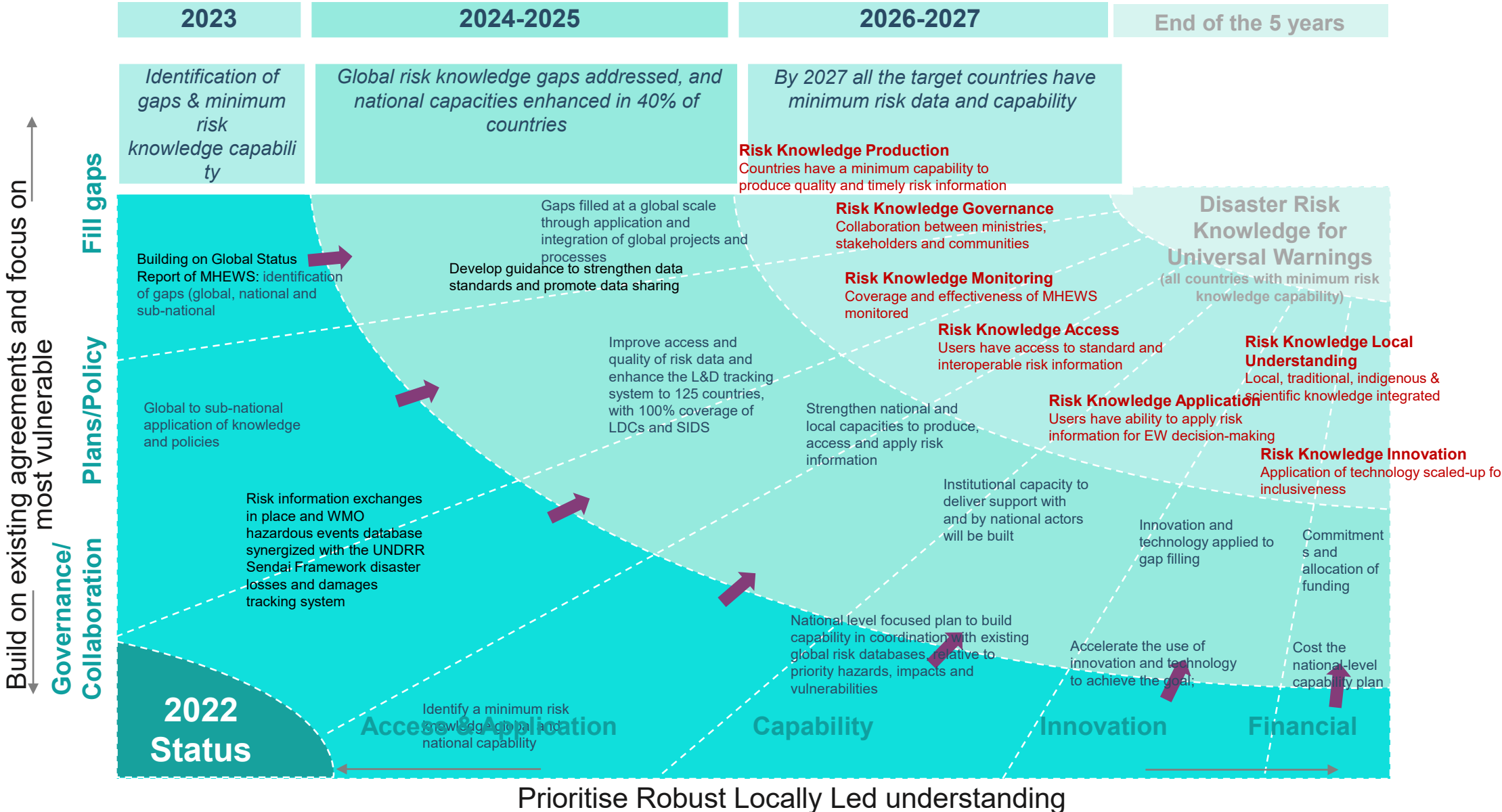
6. Robust Locally led understanding

Local, traditional, Indigenous, generational and scientific knowledge

7. Innovation

Use of new and existing technologies to improve capability at all scales

Disaster Risk Knowledge for All





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Thank you



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