

"A Real Problem for Real People:  
Why storytelling matters for  
climate change policy making"

Orville Grey, PhD

# Climate Change & Developing Countries





## Understanding our planet to benefit humankind

### Carbon Dioxide

↑ **419** parts per million +

### Global Temperature

↑ **1.1** °C since preindustrial +

### Methane

↑ **1923.6** parts per billion +

### Arctic Sea Ice Minimum Extent

↓ **12.2** percent per decade since 1979 +

### Ice Sheets

↓ **424** billion metric tons per year +

### Sea Level

↑ **4** inches since January 1993 +

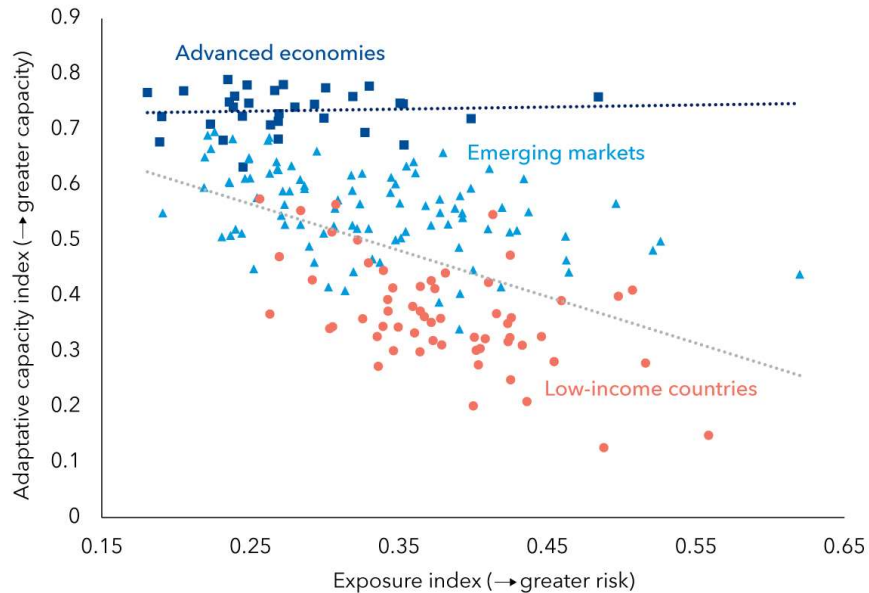
### Ocean Warming

↑ **345** zettajoules since 1955 +

## Unequal costs of climate change

Poorer countries face greater risks from climate change and are less able to adapt to them.

(adaptive capacity and exposure indexes, points out of 1)



Source: IMF staff calculations based on 2015-18 data from the European Commission, the United Nations University Institute for Environment and Human Security, the University of Notre Dame, and the April 2020 World Economic Outlook. Note: Dotted lines show estimated linear relationships for advanced economies, and for emerging market and low-income countries combined, respectively.

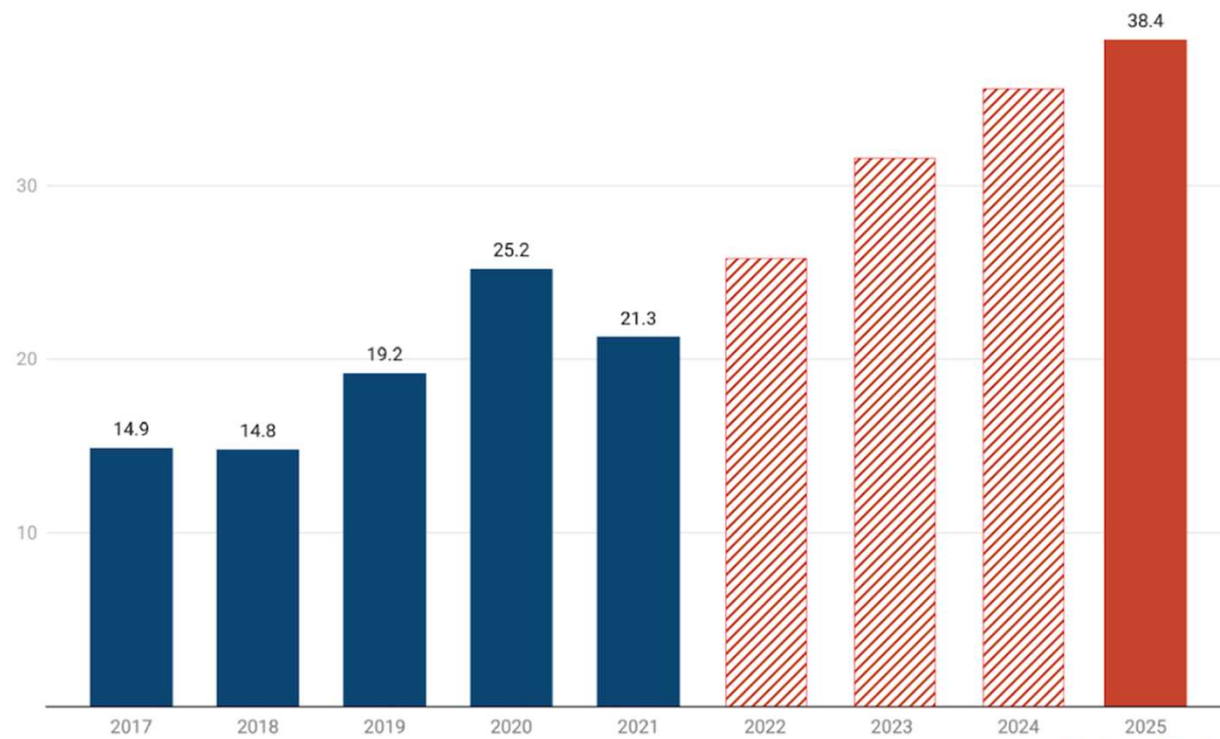
IMF

## Gap in Adaptation Finance

- Public adaptation costs will reach ~ 0.25 percent of global gross domestic product per year in coming decades.
- Estimate not representative of scale of challenge faced by many poor and vulnerable countries.
- Annual needs could exceed 1 percent of GDP in about 50 low-income and developing economies for the next 10 years.
- May even be larger for [small, island nations](#) exposed to tropical cyclones and rising seas, up to 20 percent of GDP.

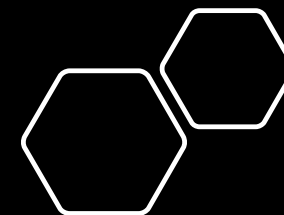
## Climate adaptation finance provided by developed countries must **increase significantly** to reach the 2025 goal

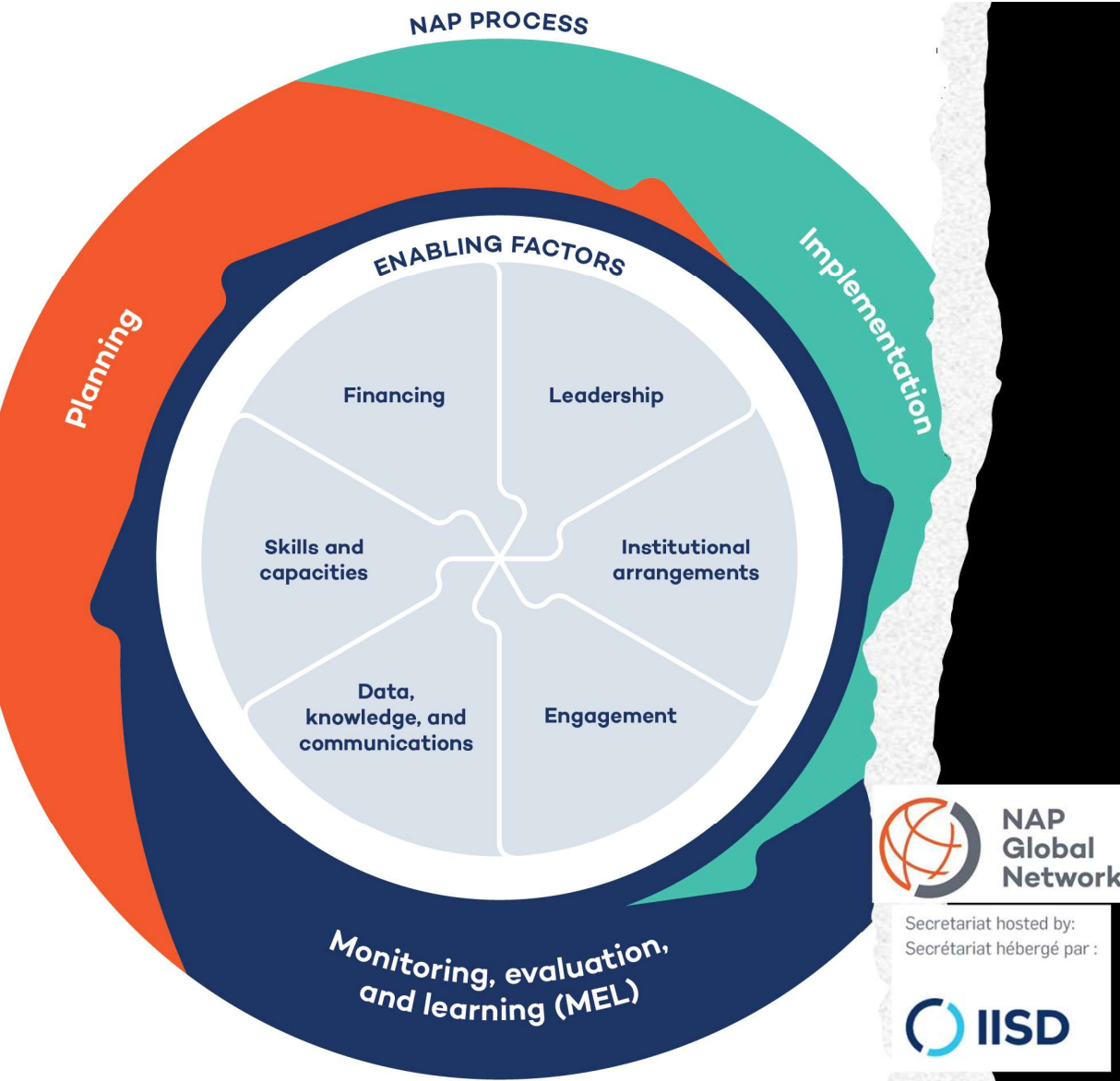
Annual public adaptation finance provided by developed countries for developing countries, \$bn



Source: UNEP Adaptation Gap Report 2023. Chart: Carbon Brief.

**CarbonBrief**  
CLEAR ON CLIMATE





# National Adaptation Planning Process

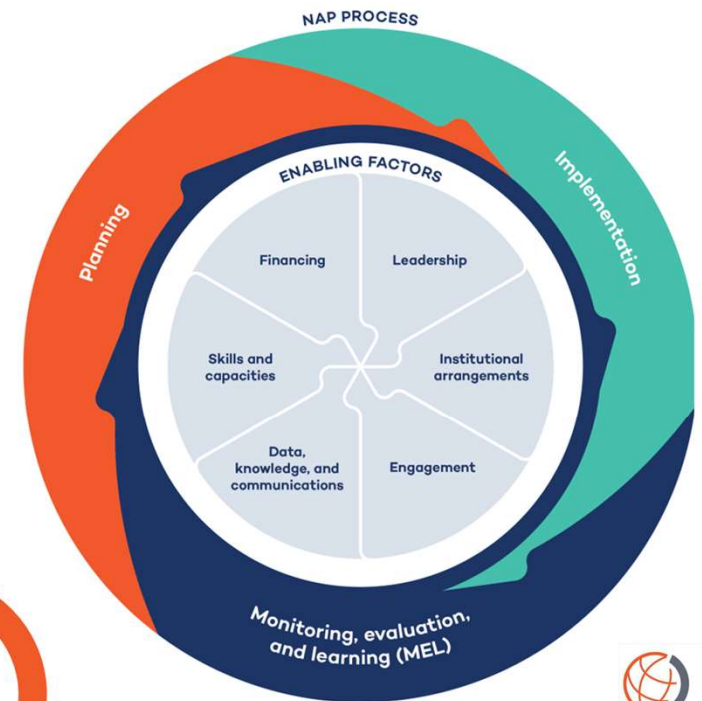
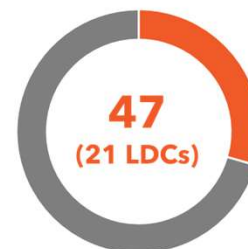


Secretariat hosted by:  
Secrétariat hébergé par :



# National Adaptation Process – Policy in Practice

- 4 Key Features of NAP Process:
- **Not** prescriptive;
- Seeks to **enhance coherence of adaptation and development planning** within a country, not duplicating efforts undertaken in another country;
- Facilitates **country-owned, country-driven** action.
- Designed to account for **monitoring reviewing and learning** on a regular basis and **updating** in an iterative manner.

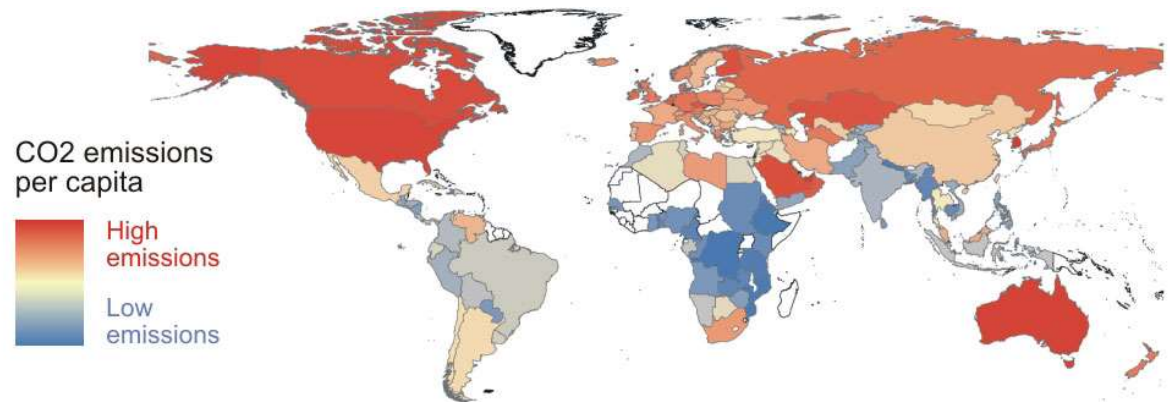


**NAP**  
**TRENDS**

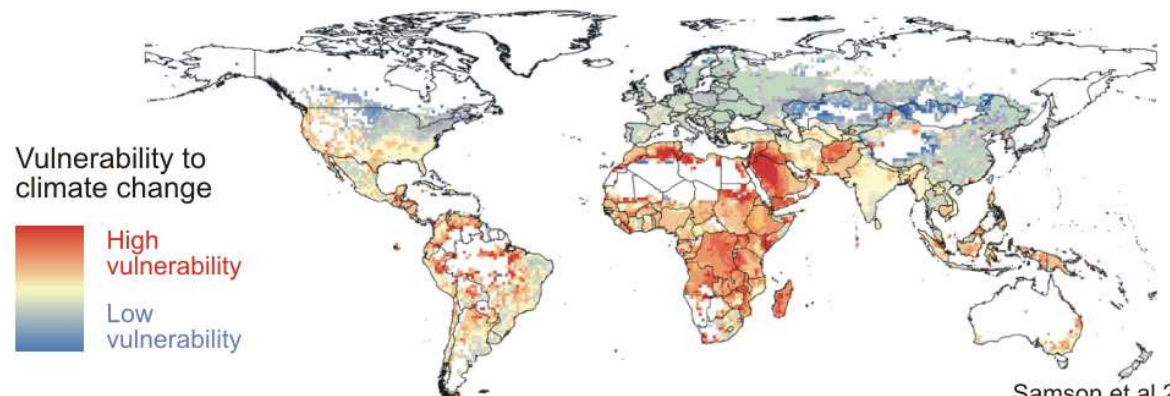
 NAP  
Global  
Network  
Secretariat hosted by:  
Secrétariat hébergé par:

 IISD

Realities  
we all  
face



Those who contribute the least greenhouse gases  
**will be most impacted by climate change**



Samsom et al 2011



**The  
Guardian**



Creator: Julie Jacobson | Credit: AP  
Copyright: Copyright 2023 The Associated Press. All rights reserved



A resident walks through floodwaters where a home once stood.  
Alejandro Cegarra / Bloomberg via Getty Images



Liberia. Photo: Sean Hawkey.



A family cools themselves in a park using an irrigation water pipe as northern Indian continues to reel under intense heat wave in Lucknow, Uttar Pradesh on Wednesday, April 19, 2023

Brett Monroe Garner / Greenpeace via Reuters file





Bobb Muriithi/AFP/Getty Images  
Somali refugees, most displaced by drought, in the Dadaab refugee camp, in Kenya, on March 23, 2023.

An aerial photograph of the Panama Canal locks, showing the waterway, locks, and surrounding infrastructure. In the background, a city skyline is visible under a cloudy sky. The text is overlaid on the center of the image.

**Panama Canal**  
**Over 200 Ships Stuck**  
**In A 'Traffic Jam'**

August 21, 2023





© 2023, Nick Brandt. All rights reserved.

BACK IN 1987, ILI AVI WAQA  
FROM NAYAVUTOKA VILLAGE IN FIJI  
BUILT A SEA-WALL

Thank You!