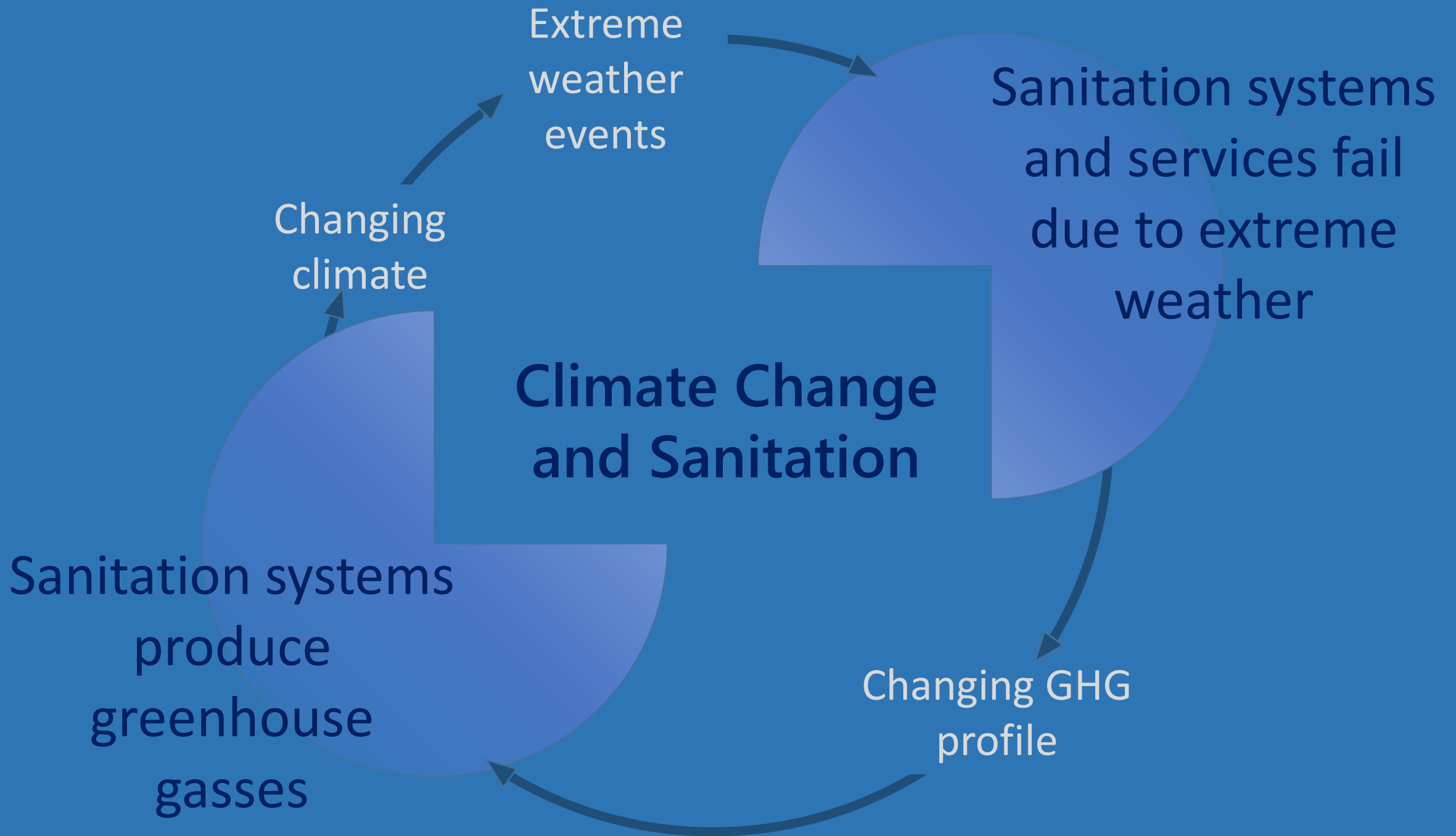


# CLIMATE RESILIENT SANITATION: COALITION FOR ACTION



Kate Medicott  
Team lead – sanitation and  
wastewater, WHO - HQ



Fewer extreme weather events

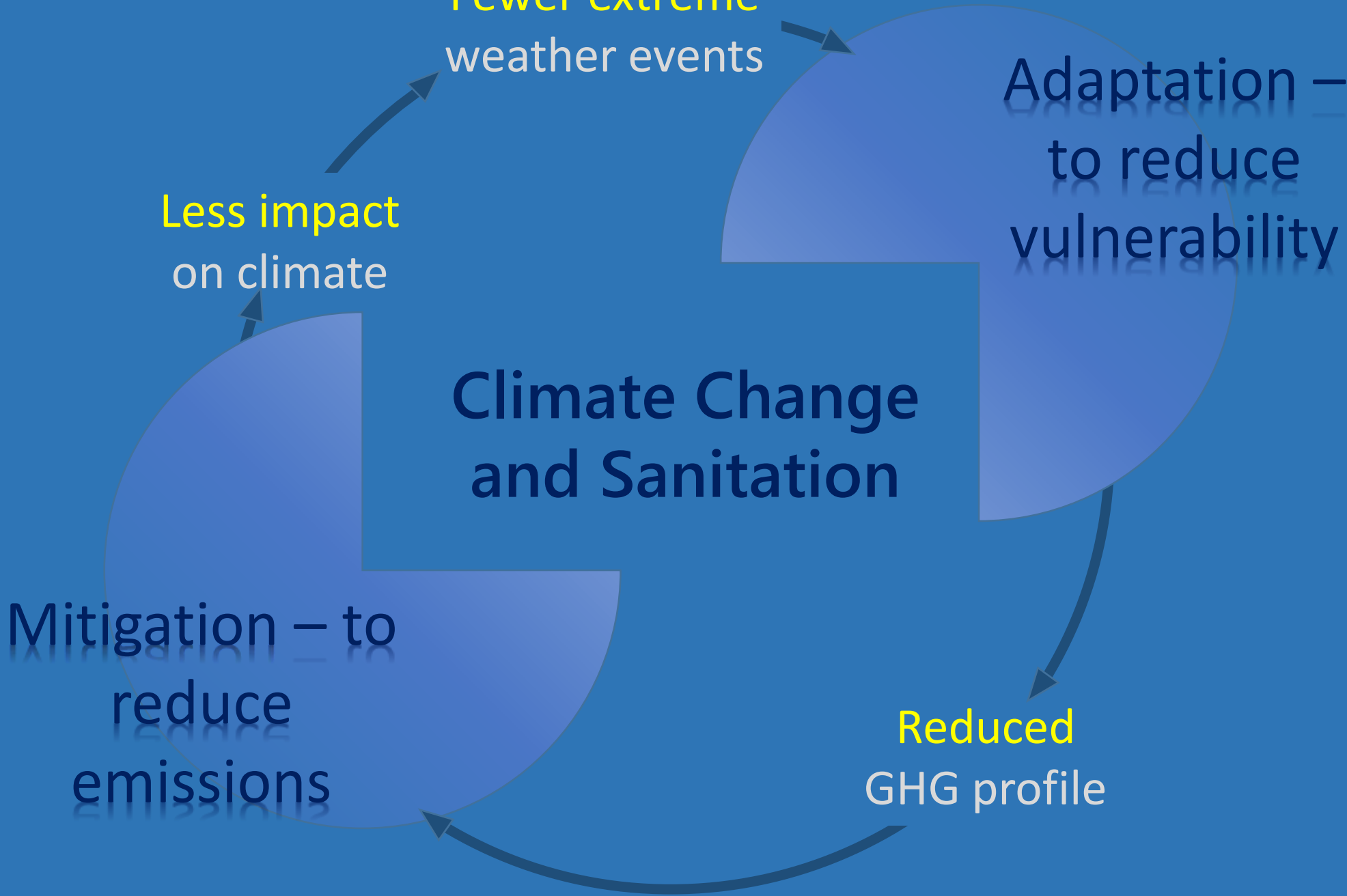
Adaptation – to reduce vulnerability

Less impact on climate

Climate Change and Sanitation

Mitigation – to reduce emissions

Reduced GHG profile

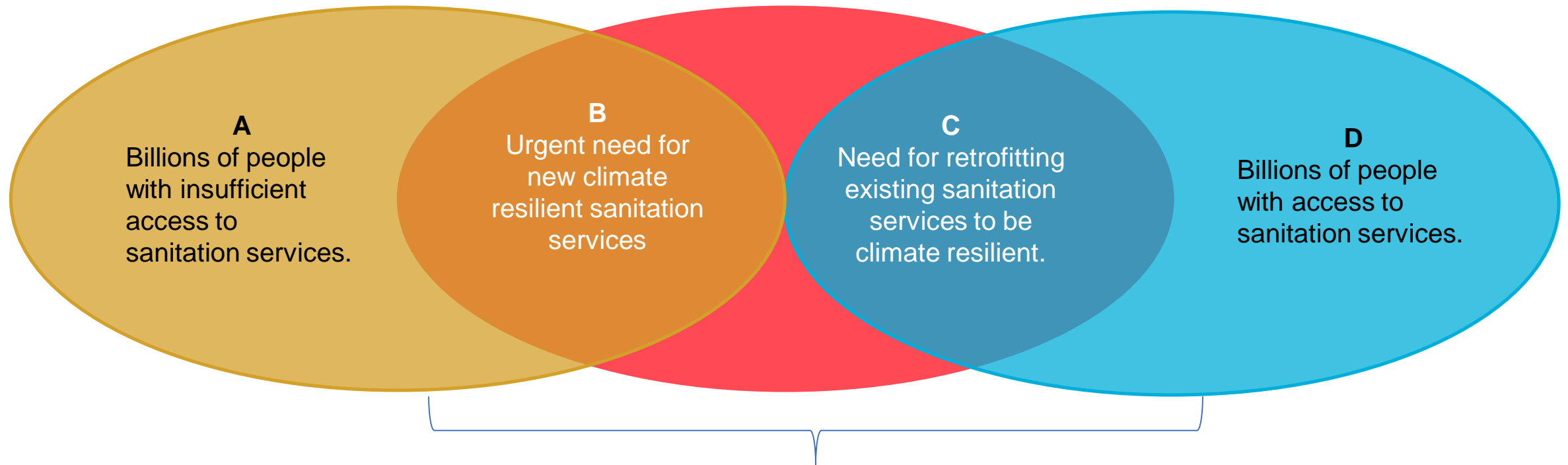


# FOCUS ON PRIORITY POPULATIONS

*People without access to sanitation services.*

*People living in high-risk climate impacted areas.*

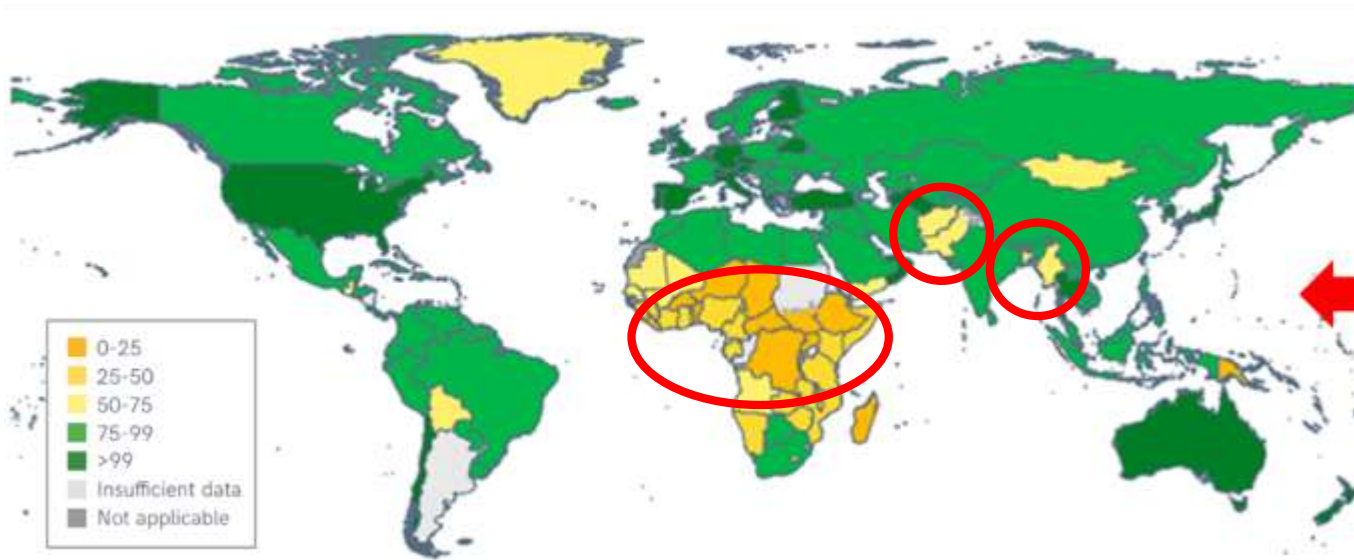
*People with access to sanitation services.*



**CLIMATE RESILIENT SANITATION FOCUS**

# SANITATION AND CLIMATE CHANGE OVERLAP

*Sanitation Access*



*Riverine Flood Risk*



# INVESTMENT IMPACT

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Climate events threaten precious capital invested in sanitation infrastructure and services.





# DISPLACED POPULATIONS

People displaced by climate events lack, or stress, sanitation services.



# FRESHWATER ECOSYSTEMS

Sanitation damaged by climate events discharges waste into freshwater ecosystems.

This results in eutrophication, toxic cyanobacterial blooms, fishkills, and GHG emissions.





# MARINE ECOSYSTEMS

Sanitation damaged by climate events discharges waste into saltwater ecosystems, damaging seagrass beds, mangrove swamps, etc.

Mangroves store up to 5x carbon as forests\*\*; shorelines from storm surges; seagrass beds sequester CO<sub>2</sub> 35x faster than rainforests and account for ~15% of total ocean carbon storage.

*88% of seagrass ecosystems are exposed to wastewater.\**



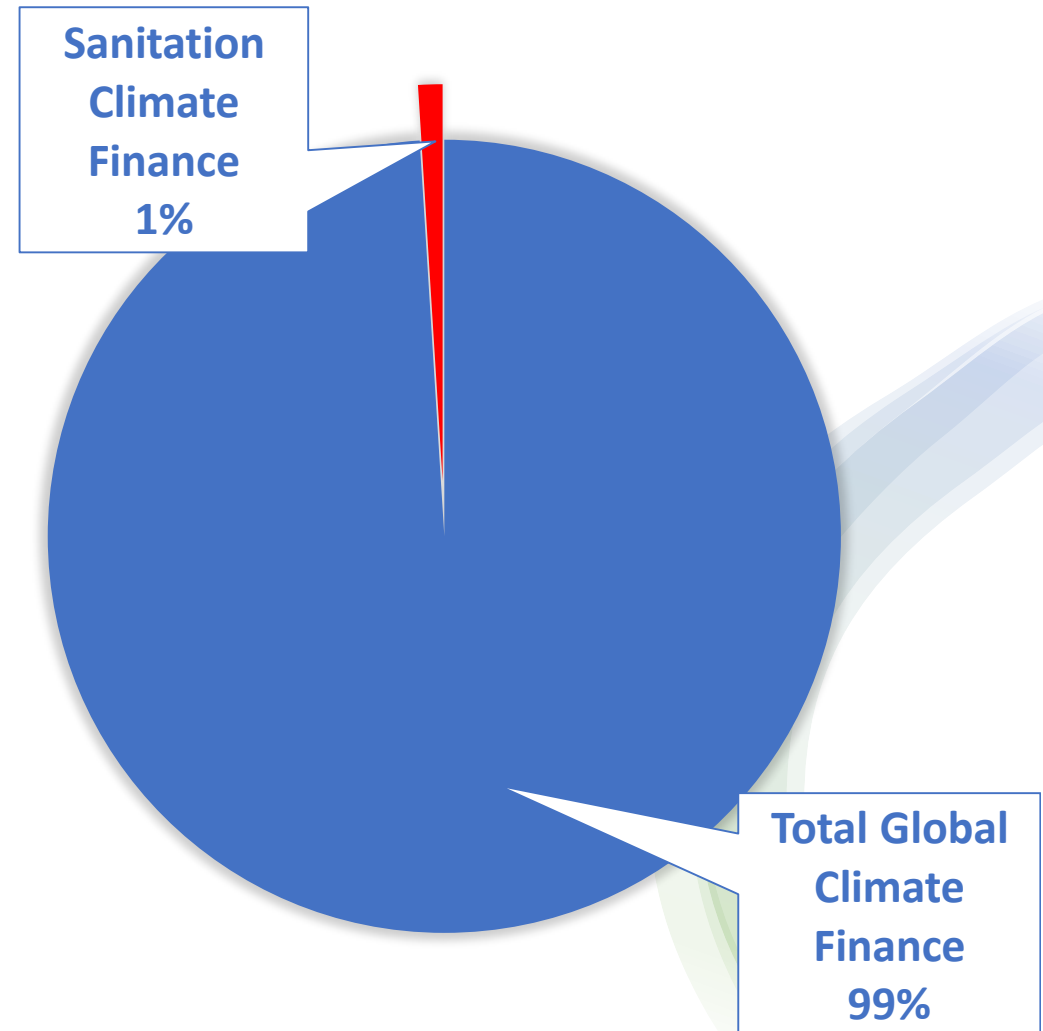
\*Tuholske et al, 2021

\*\*Donato et al, 2011

# FINANCING

*Despite the demonstrated importance of sanitation to climate change, it receives a vanishingly small amount of climate investment.*

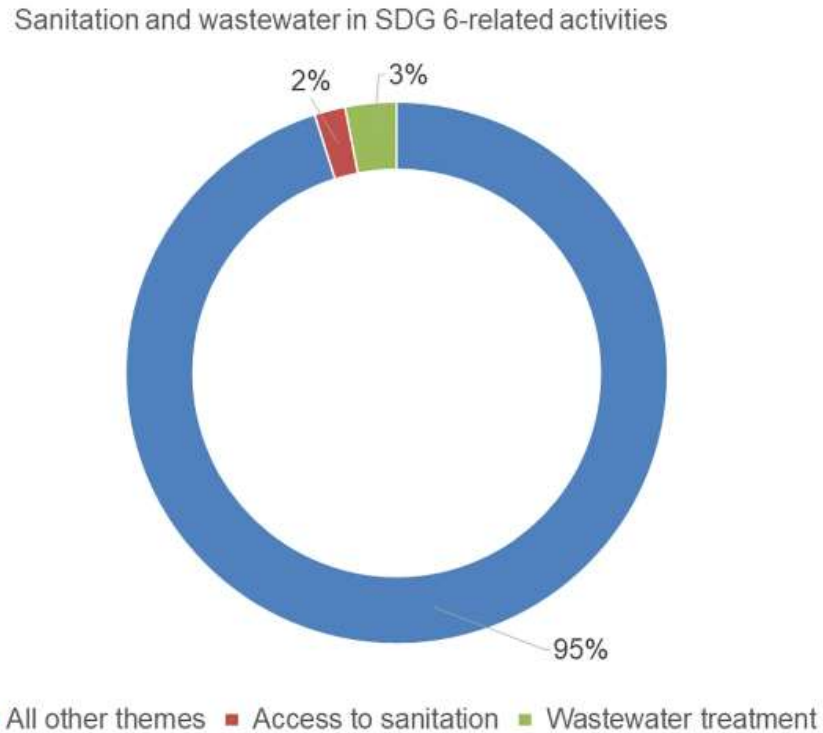
CLIMATE FINANCING



# CLIMATE, SANITATION AND POLICY

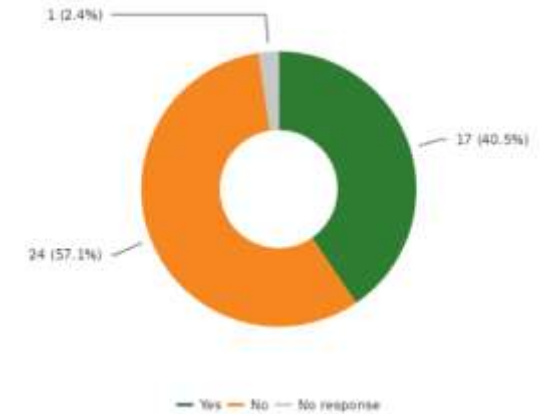
*Sanitation and climate are often mutually excluded from policies.*

As of 2020, only 2% of NDCs include sanitation.

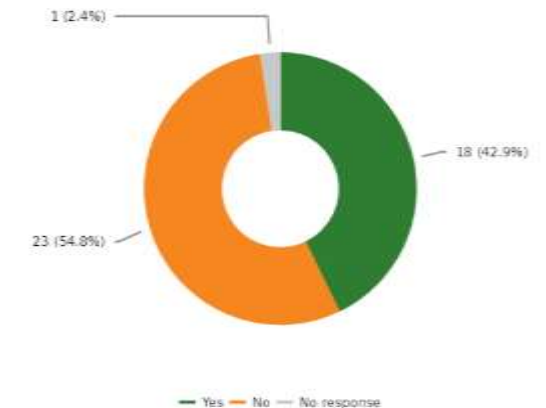


Dickin, S., Bayoumi, M., Giné, R. et al. Sustainable sanitation and gaps in global climate policy and financing. *npj Clean Water* 3, 24 (2020). <https://doi.org/10.1038/s41545-020-0072-8>

% of countries reflecting climate in urban sanitation policies.



% of countries reflecting climate in rural sanitation policies.



n=42

Source: GLAAS 2021/2022 country survey

# CRS COALITION VISION

Integrating sanitation into global and national climate policy & practice; and integrating climate into global and national sanitation policy & practice.





# CRS COALITION HISTORY



SWWW '20 – '22: Gathering the evidence

COP27: Launch Call to Action

UN2023: Expansion of Call to Action

SWWW '23: Launch CRS Coalition

COP28: Engaging with Climate Sector



# PRIORITY ACTIONS

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- **Increase Access to Finance** *Inclusion of sanitation in GCF Guidelines.*
- **Increase Prominence of Sanitation in Climate Policy** *Build the evidence base and best practice.*
- **Build Capacity at National Level** *Support governments with tools and expertise to include sanitation in climate policy and practice, and to include climate in sanitation policy and practice.*

# HOW IS WHO ASSESSING CLIMATE RISKS?

**All sanitation risk assessment should include climate risks**

**All SSPs are climate resilient SSPs**



## SANITATION SAFETY PLANNING

Step-by-step risk management for safely managed sanitation systems

Second Edition

**CLIMATE  
RESILIENT  
SANITATION:  
COALITION  
FOR ACTION**



**THANK YOU**