

# Interreg for a Greener Europe Webinar Series

## Climate change adaptation – disaster risk management

# IS EUROPE RESILIENT?

**The importance of multi-level governance to promote resilience across borders**

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# Resilience

## 1. Urban Resilience Definition

Urban Resilience as Climate Adaptation?

Urban Resilience as Disaster Risk Reduction?

Urban Resilience as Sustainable Development?

## 2. Global Agenda Integration

Disaster Risk Reduction (Sendai Framework)

Climate Change (Paris Agreement)

Sustainable Development (Agenda 2030)

....

New Urban Agenda

Convention on Biological Diversity

Addis-Ababa Action Agenda





# Disaster risk

## 3. Loss and damages

People and livelihoods

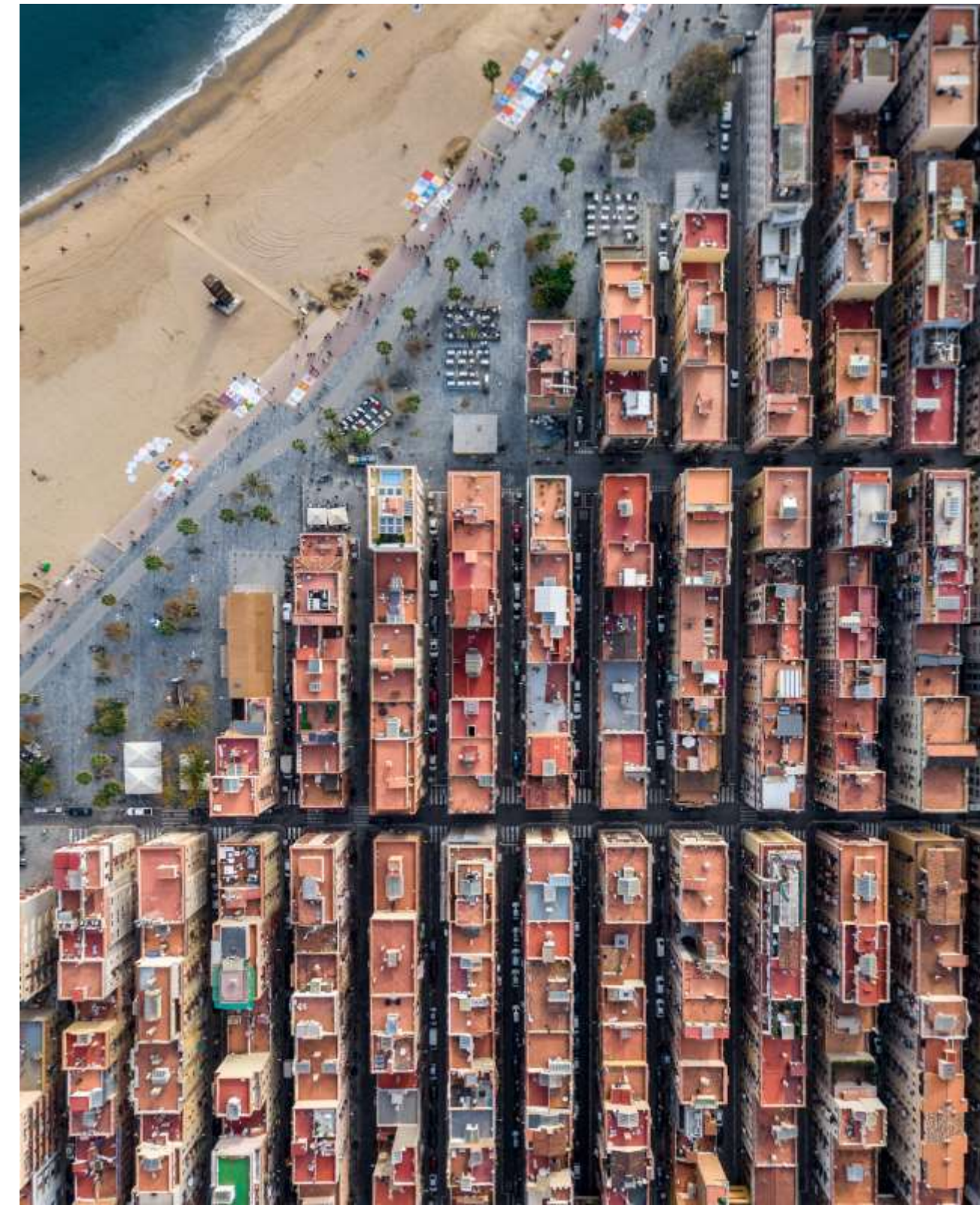
Structures/infrastructures (services)

Ecosystems (services)

## 4. Human vs Natural Hazards

Industrial, Terrorism, Nuclear, Infrastructural, Oil Spills, War

Earthquakes, Volcanic Eruptions, Floods, Hurricanes, Wildfires, Droughts, Vector-born diseases (pandemics?), Heatwaves, Temperature Rise.





# “Natural” Disasters and Climate Induced Disaster

## 5. Risk

$RISK = (Hazard * Exposure * Vulnerability) / \text{actions for DRM}$

## 6. THERE ARE NOT “NATURAL” DISASTERS

## 7. CLIMATE CHANGE is increasing frequency and magnitude of several hazards

Affecting the very nature of the hazards that are becoming systemic threats





# Is Europe Resilient to Disasters? \*

## 7. Disasters

Floods (Valencia) Wildfires (Spain) Heatwaves (Paris)  
Temperature rise (Greece)

## 8 Disaster Management

Paris heat waves plan  
Copenhagen cloud burst plan  
Denmark local climate action plans

\* Spoiler Allert (NO! Europe is not Resilient)



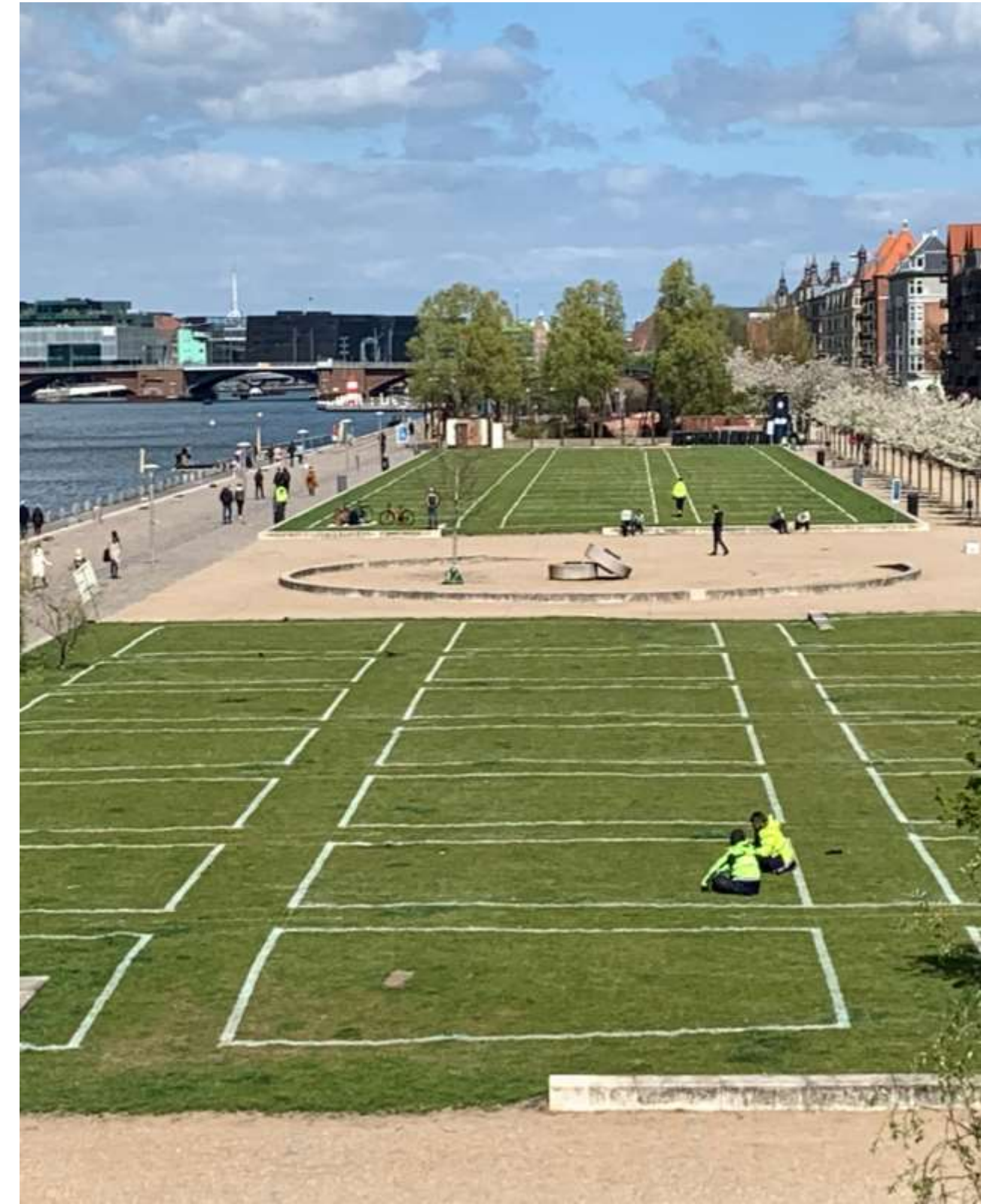


# Disasters have no boundaries

9. **Best practices are limited**

10. **Single risk vs compounded risks approach**

11. **Disasters have no boundaries**







**200+ indicators** – external data and data within NDCs.

## **Urban content**

**Strong urban content** (Cluster A) NDCs with specific urban sections and/or NDCs in which urban areas are identified as priority sectors, excluding NDCs that are not backing the prioritization with a clear identification of specific urban challenges and/or responses.

**Moderate urban content** (Cluster B) NDCs with urban mentions within the body of text.

**Low or no urban content** (Cluster C) NDCs with low or no explicit urban mention within the text.

## **Alignments and misalignments**

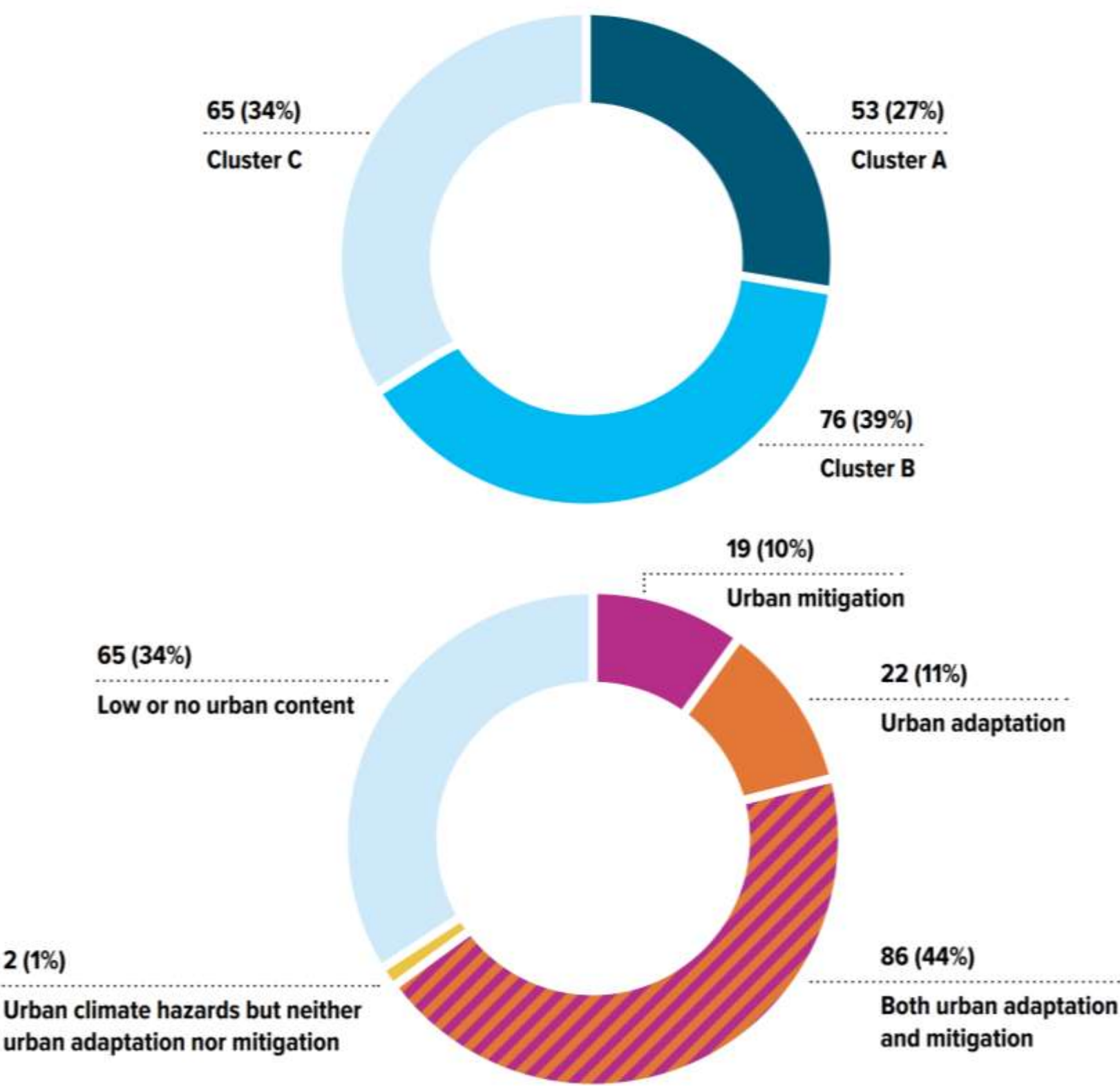
Mitigation challenges/responses

Adaptation challenges/responses

National/urban content



# Urban Content



27%

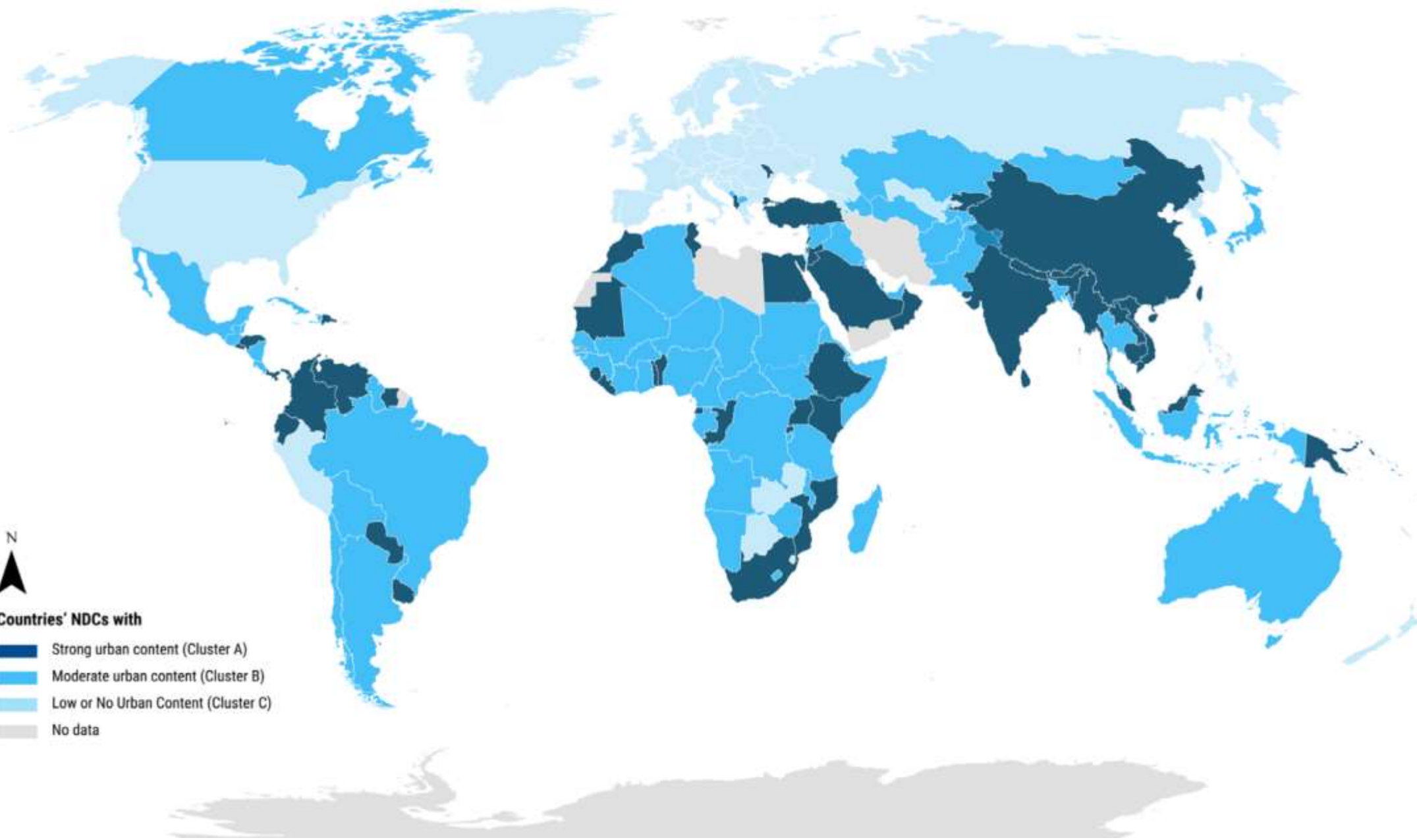
of NDCs have a strong focus on urban content

39%

of NDCs have moderate urban content

35%

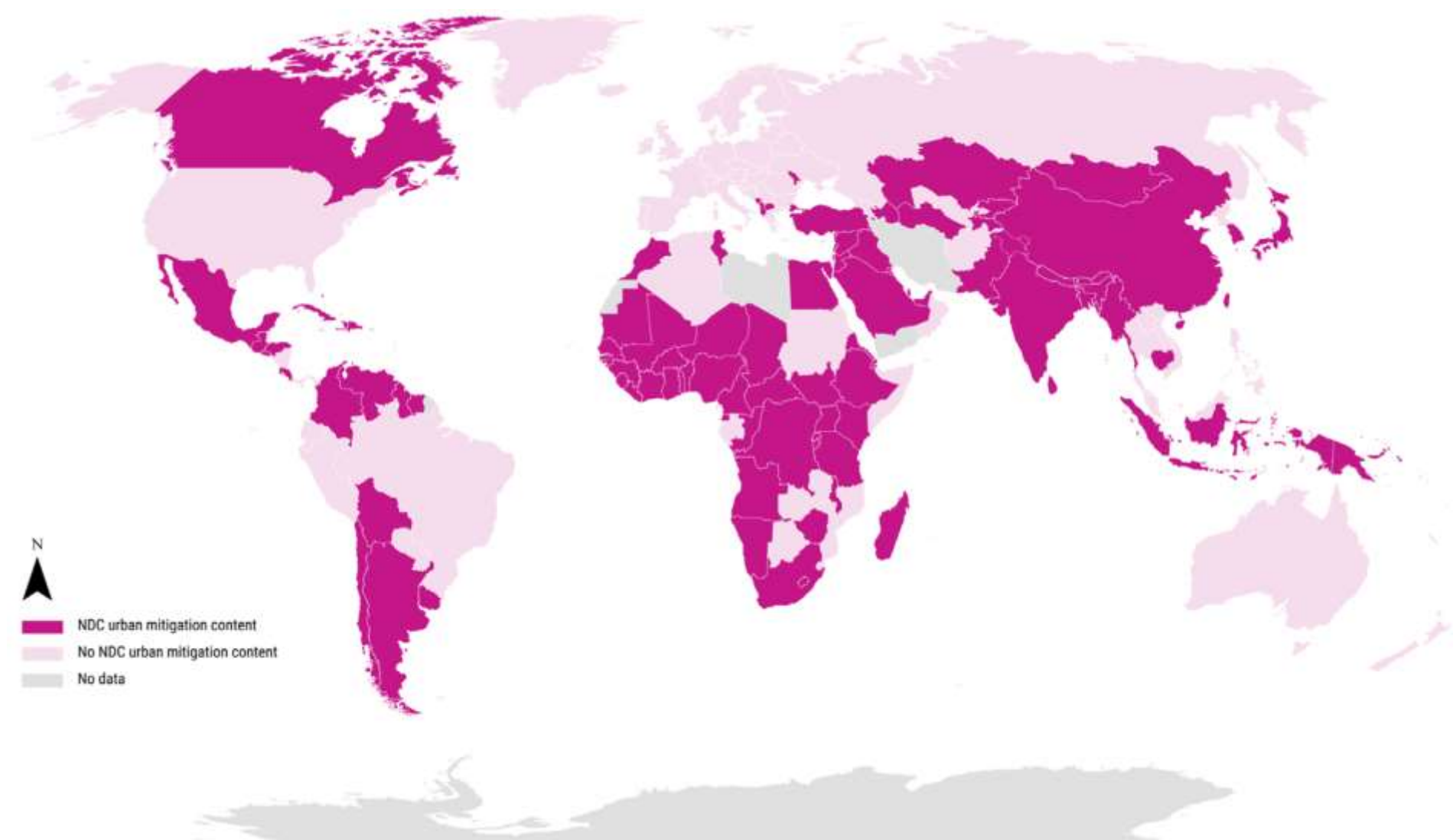
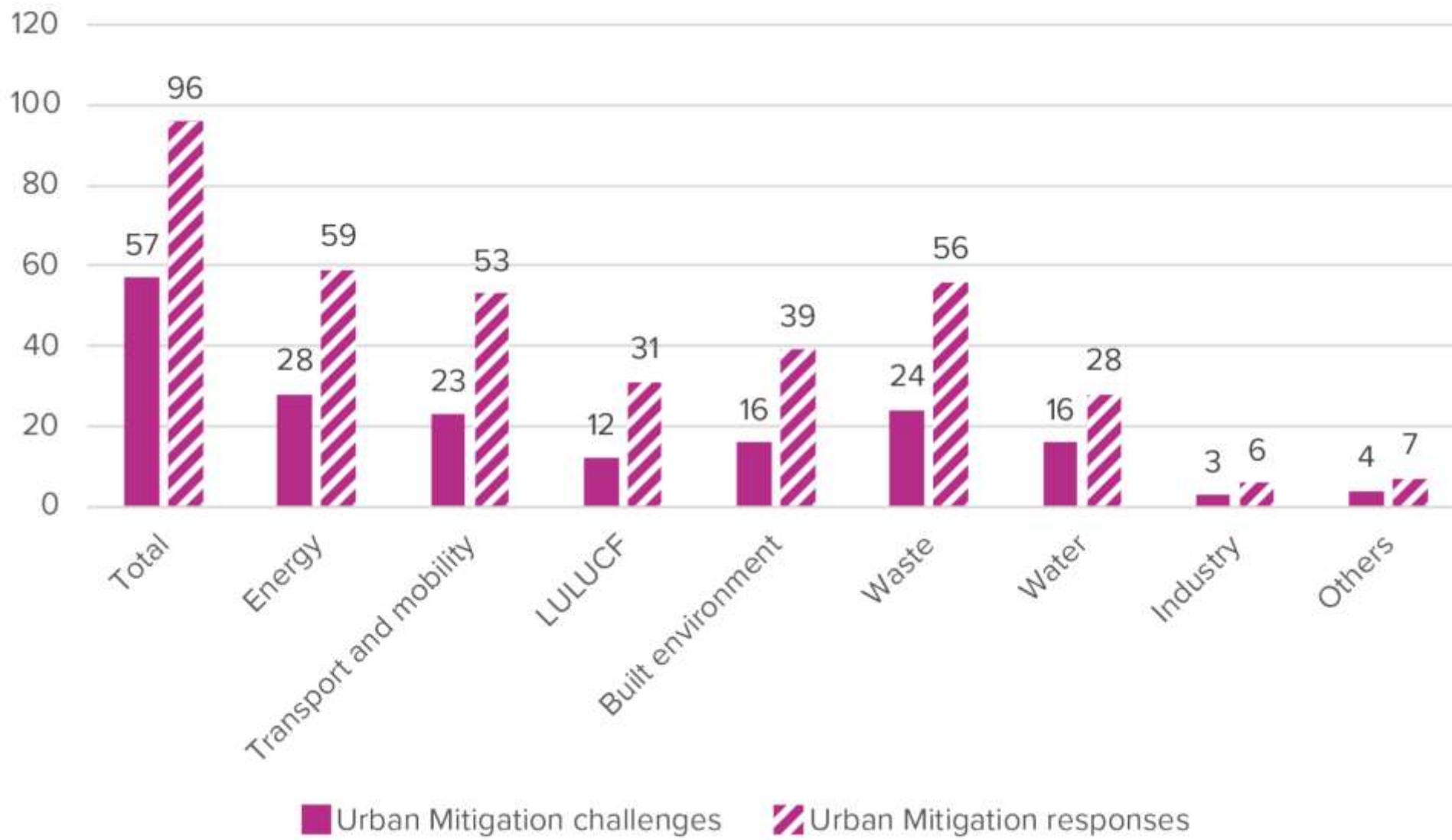
of NDCs have low to no mention of urban content



73% of NDCs could have more urban content

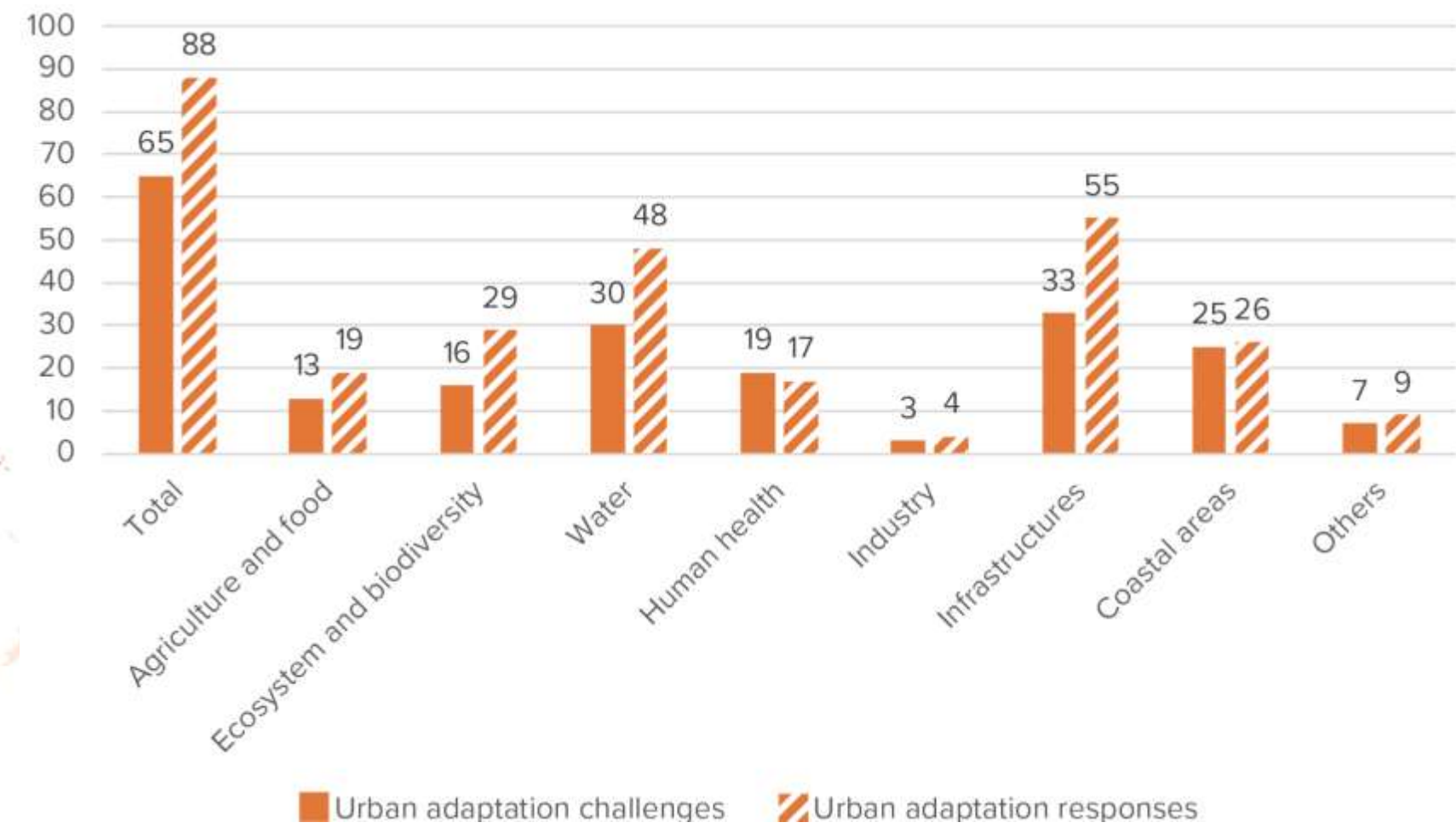
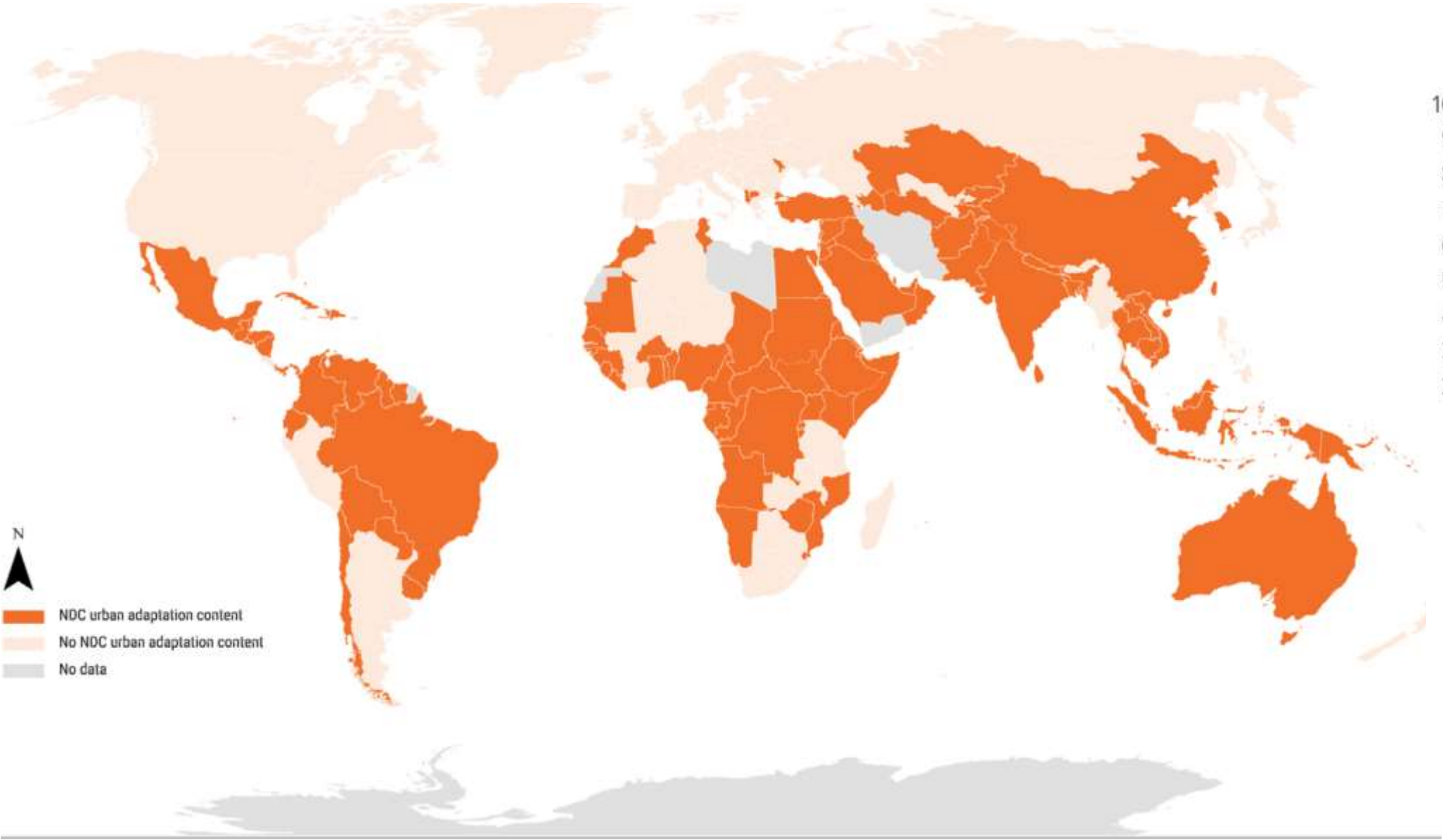


# Urban Content: Mitigation



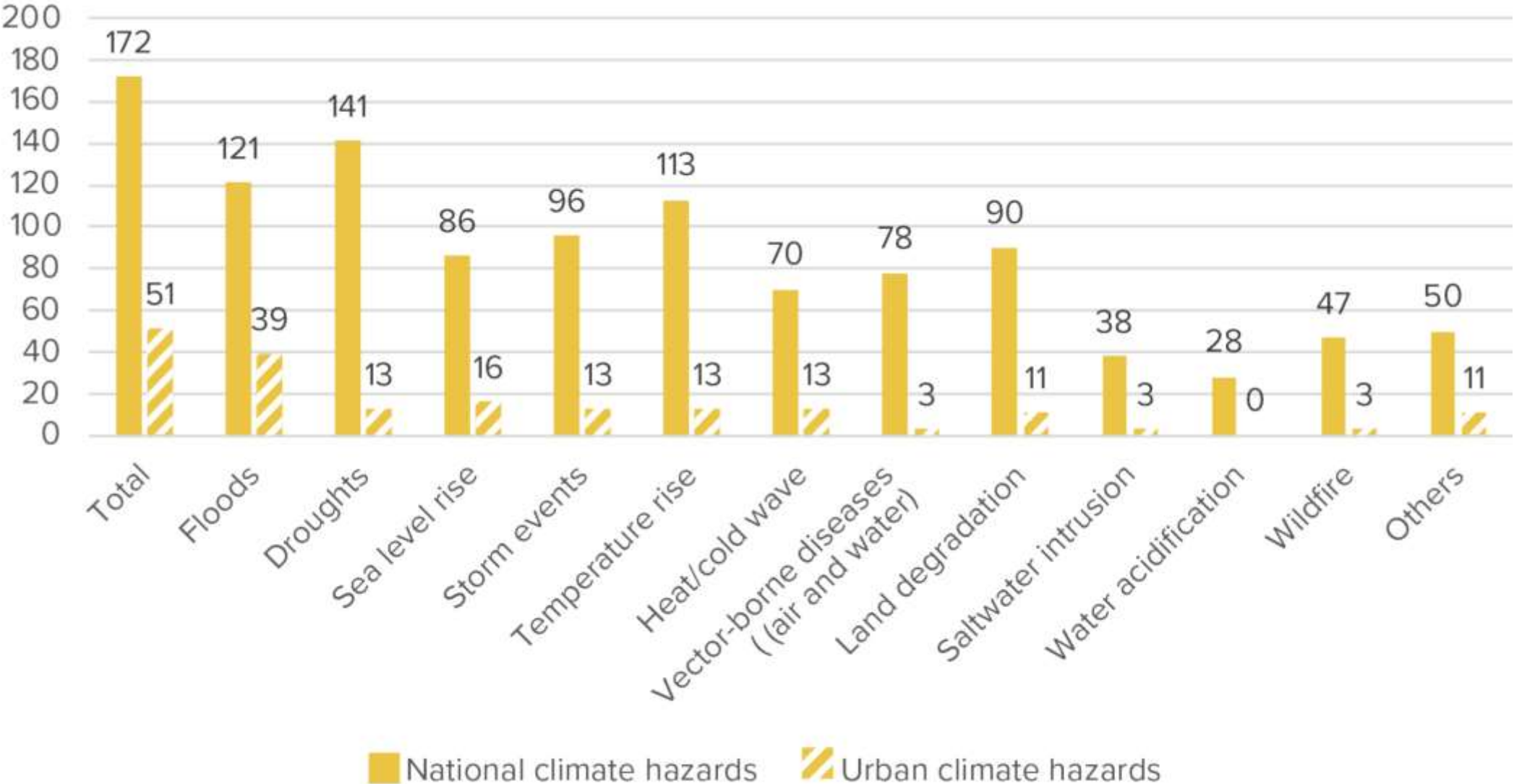
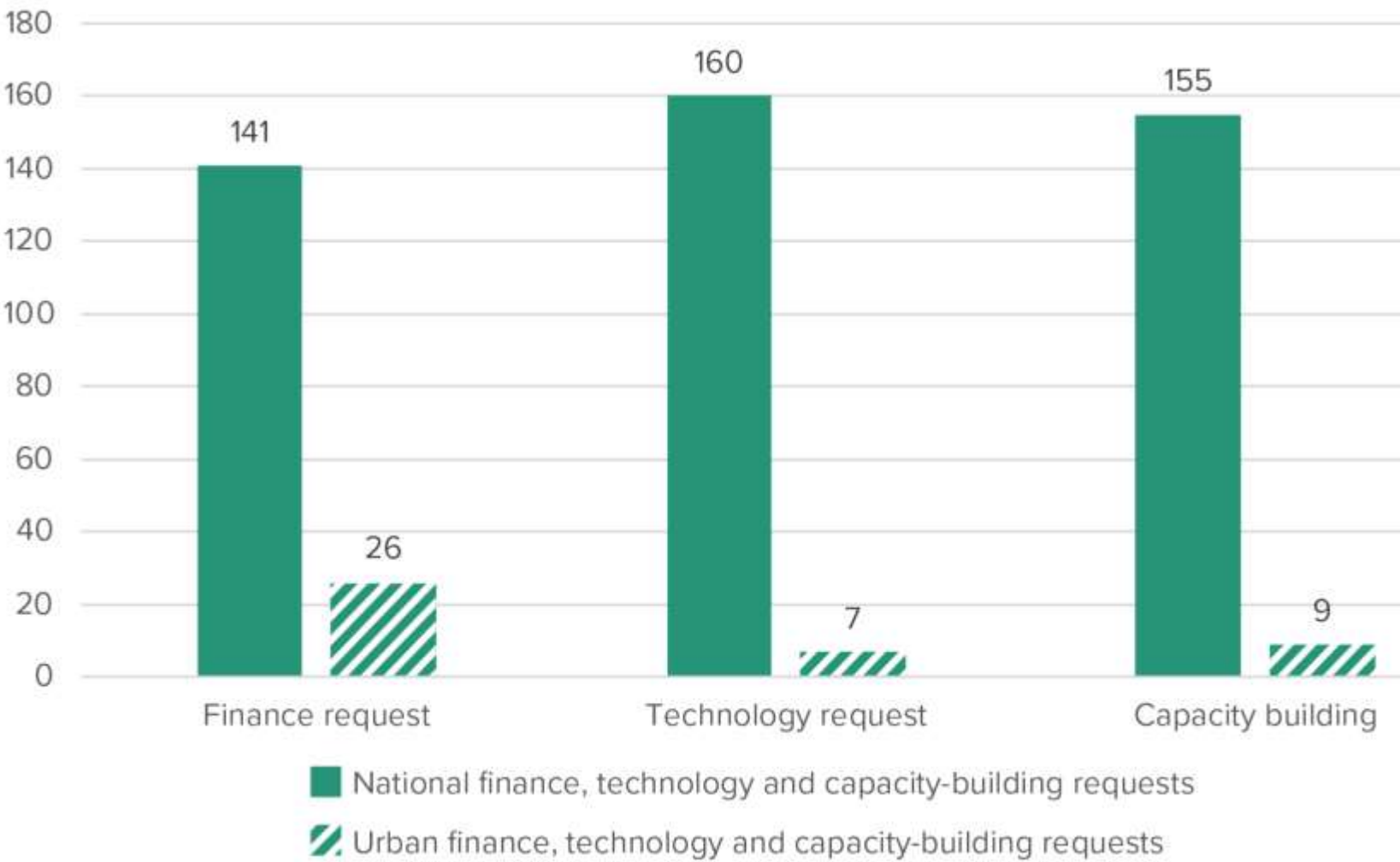
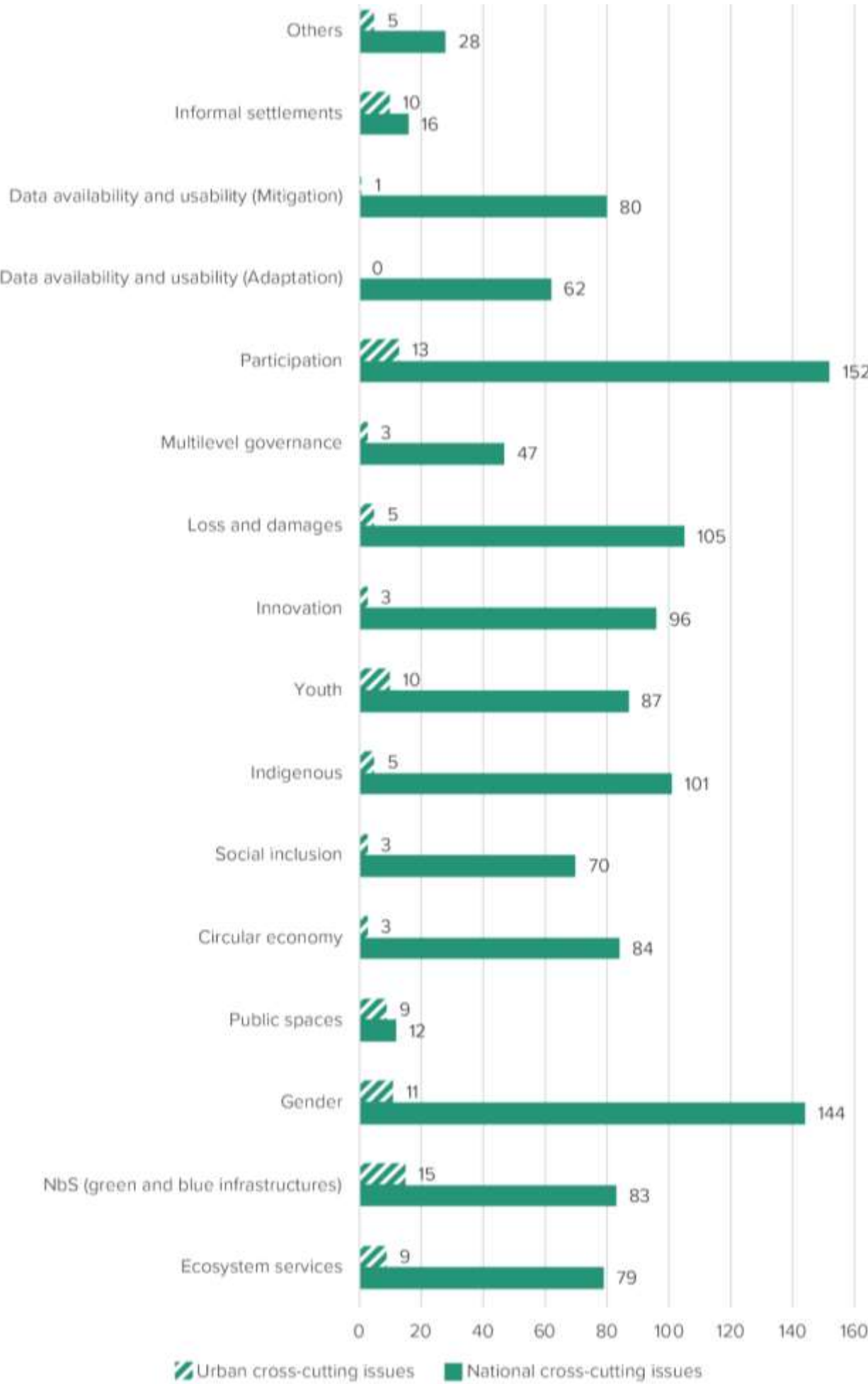


# Urban Content: Adaptation





# Cross-cutting, Mol and Hazards





# Issues

Lack of **data** and uncertainty (e.g. floods data but not drought nor coast)

Lack of **finance** (e.g. no investment-loss damages)

**Foresights** pre vs post disaster (e.g. prevention / mitigation)

Lack of **capacities** (e.g. small municipalities)

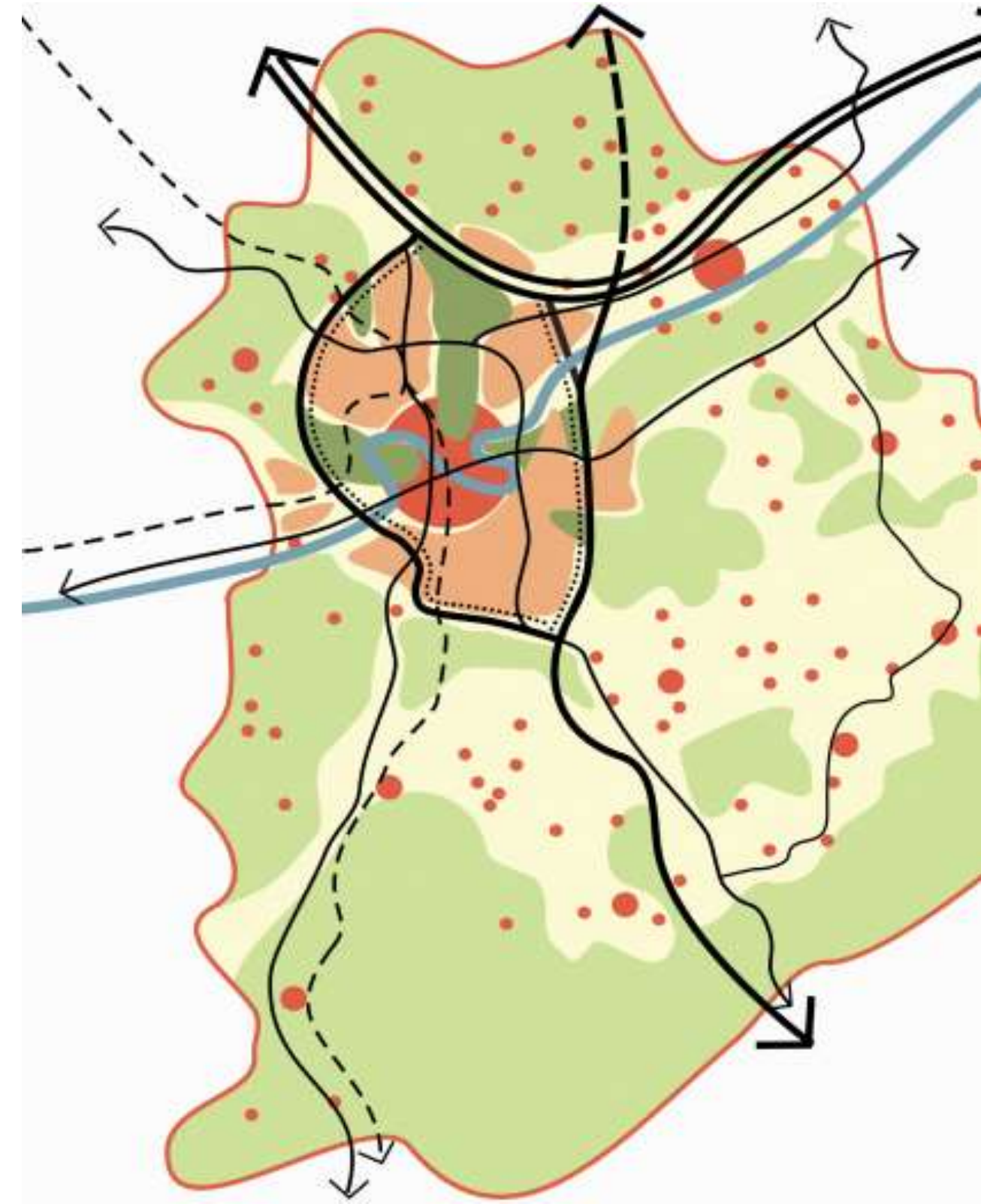
**Scale** of solutions and **integration** (e.g. NBS)

Lack of **physical solutions** (e.g. planning/engineering LULUC)

**Policy vs action** divide ( e.g. EU NDCs)

Norms, regulation and **legislation** (e.g. Regions in DK)

Public **participation** (e.g. individual vs community interests)





# Solutions

Capacity Building

Territorial Resilience

Multi-level governance (Vertical and Horizontal)

INTERREG role for a Resilient Europe





# Thank you

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