





# A climate scenarios consortium and library for the Asia Pacific

or, what is a development  
bank doing at a meeting of  
climate modelers?

Christine Chan  
Asian Development Bank  
WRCP-CORDEX South Asia  
Planning Meeting  
Pune, India 25-26 Feb 2012

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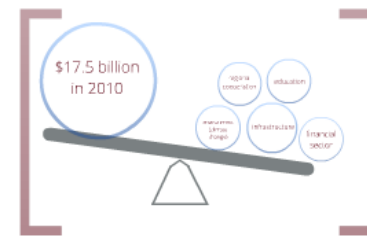
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ADB:  
multilateral development bank  
finance and technical assistance  
mandate is poverty reduction



who



climate change priorities:  
clean energy  
sustainable transport and  
urban development  
land use/forest management  
policies, governance, capacity

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The diagram features a balance scale with a triangular fulcrum. On the left pan, a large light blue circle contains the text "\$17.5 billion in 2010". On the right pan, five smaller light blue circles are arranged in a cluster, containing the text "regional cooperation", "education", "environment (climate change)", "infrastructure", and "financial sector". The scale is tilted downwards on the right side. The entire graphic is framed by large, stylized brackets on the left and right sides.

\$17.5 billion  
in 2010

regional  
cooperation

education

environment  
(climate  
change)

infrastructure

financial  
sector



climate change priorities:

clean energy

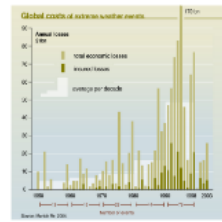
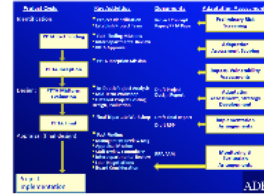
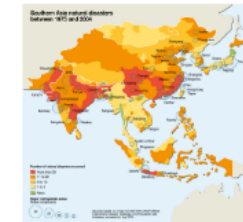
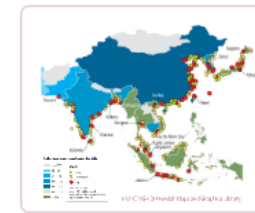
sustainable transport and

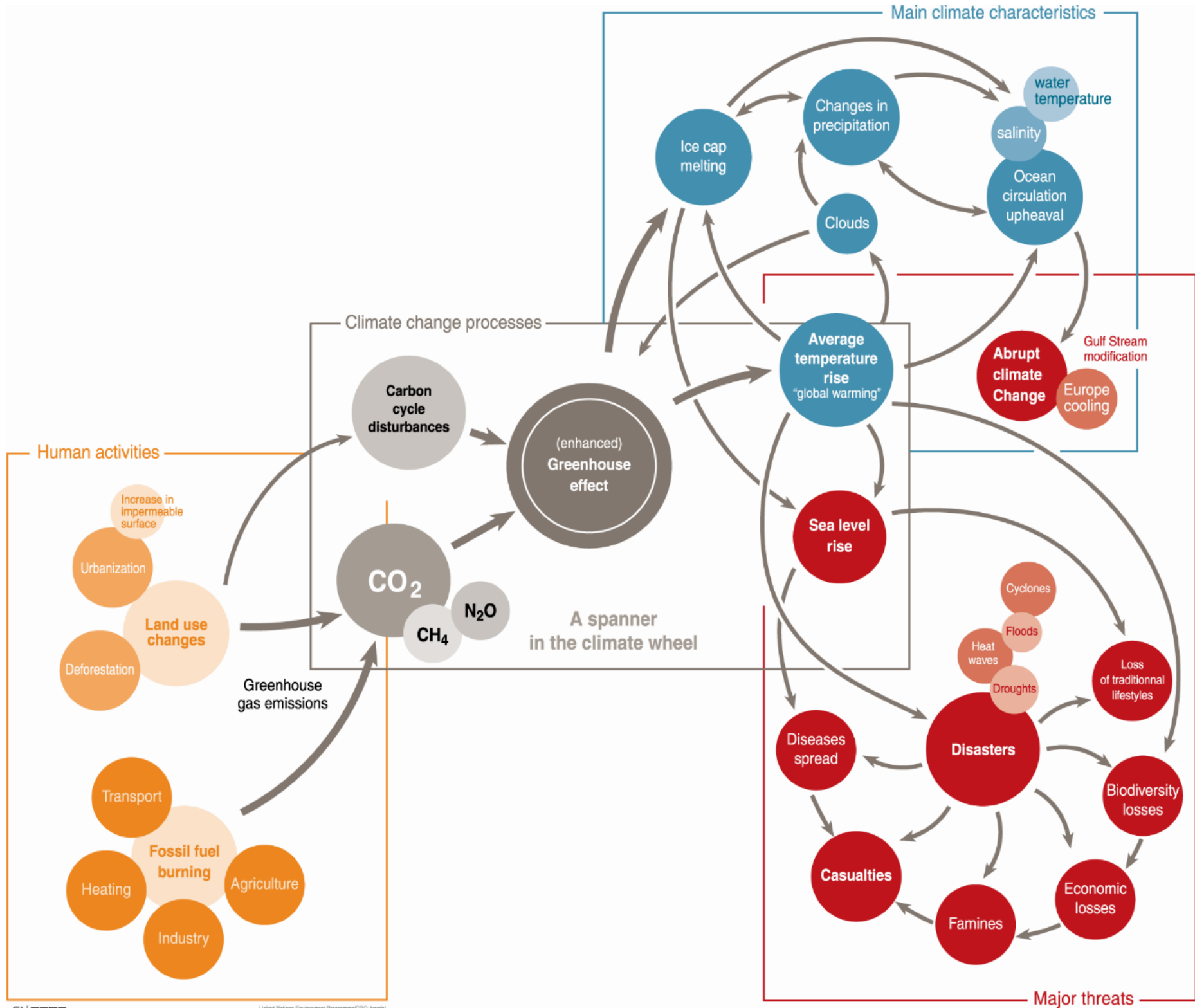
urban development

land use/forest management

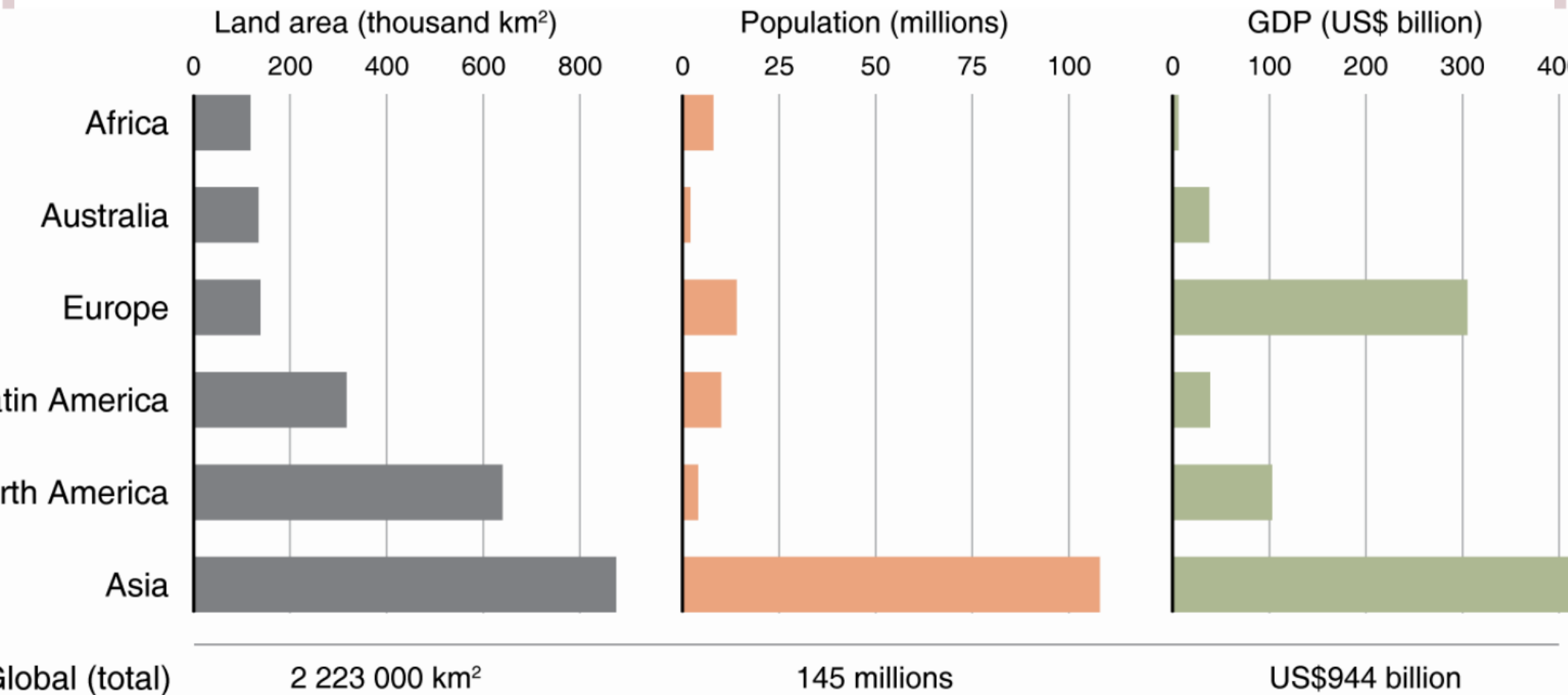
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# why

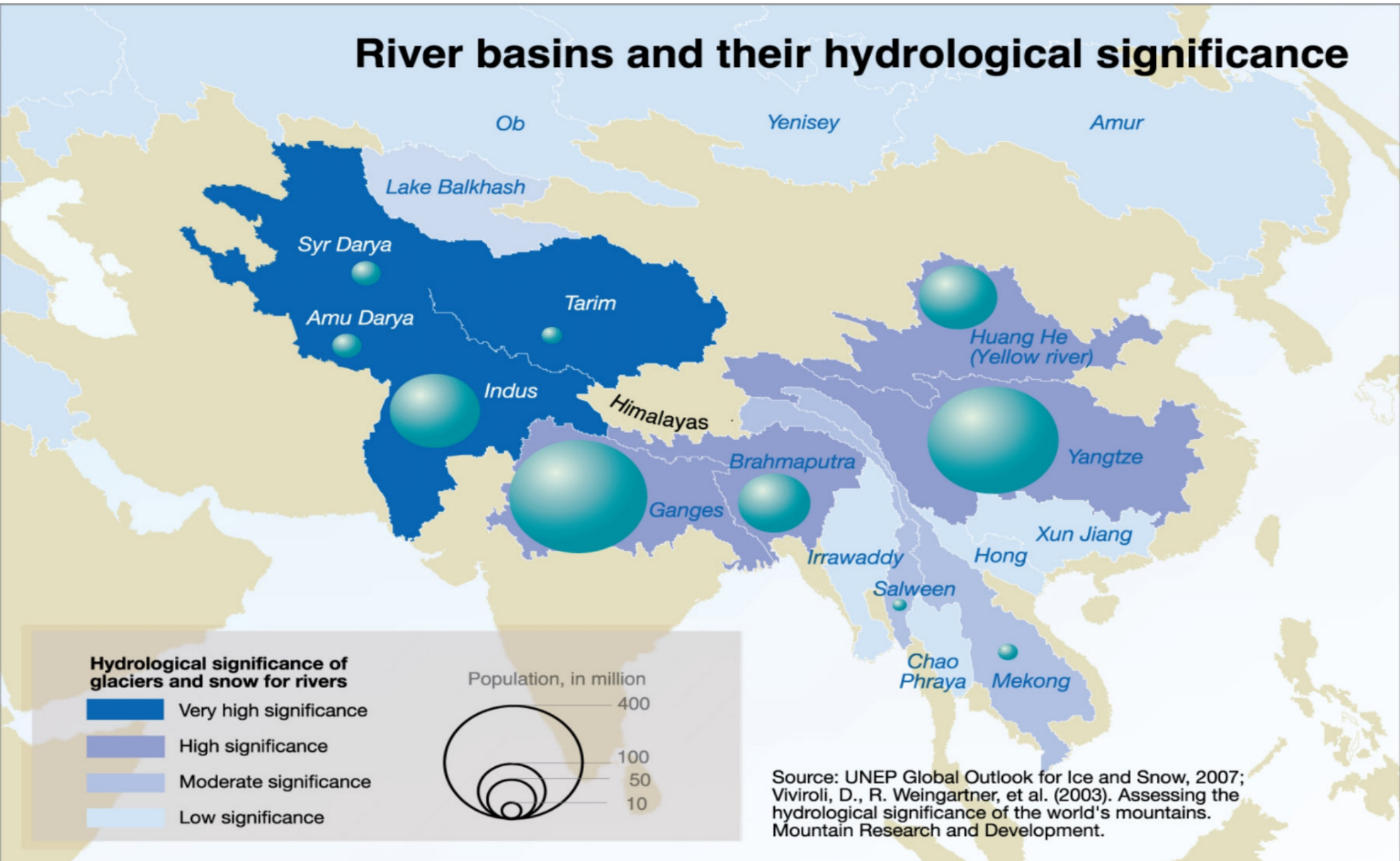




climate change is a regional development issue



# River basins and their hydrological significance

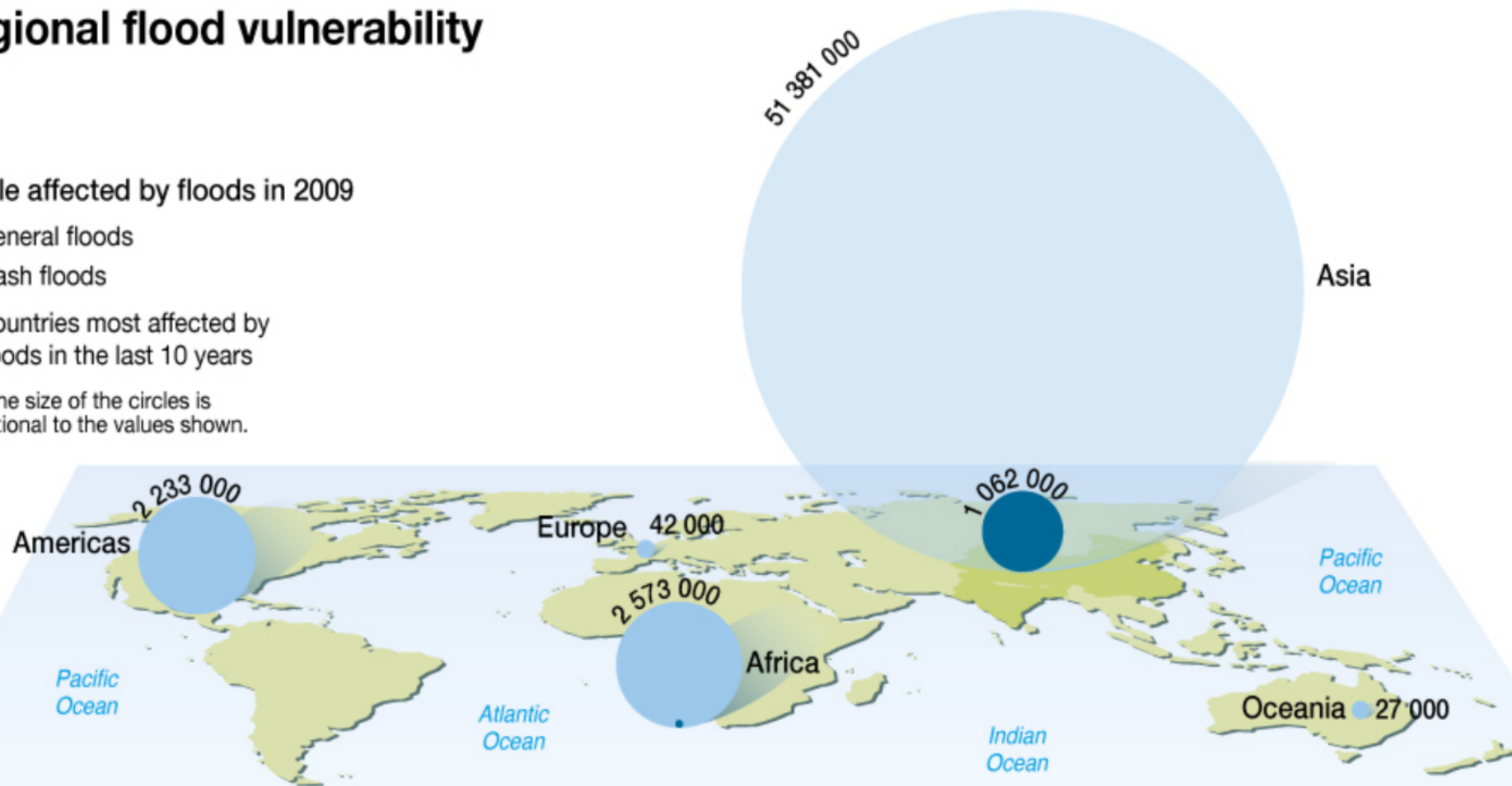


## Regional flood vulnerability

People affected by floods in 2009

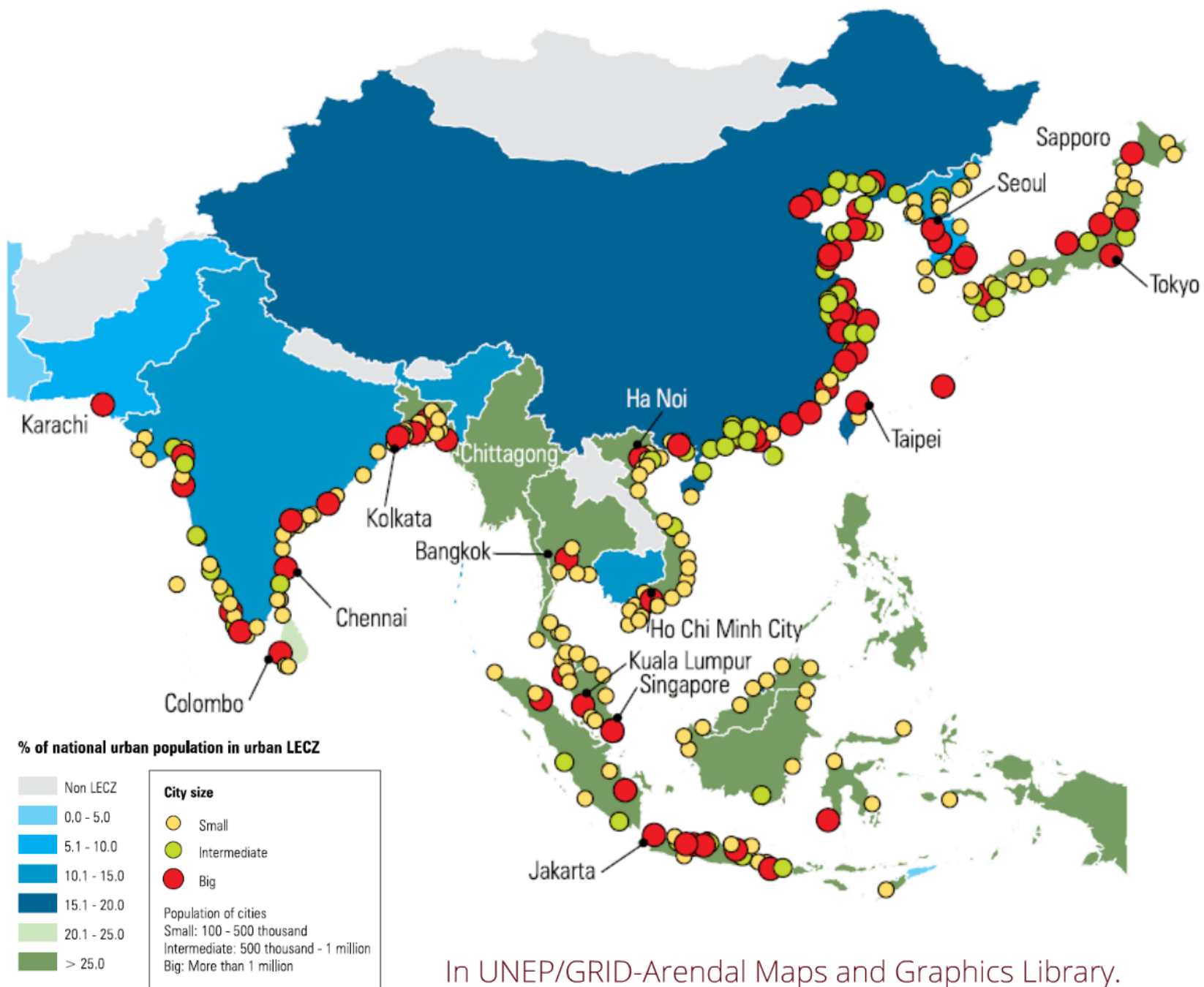
- General floods
- Flash floods
- Countries most affected by floods in the last 10 years

Note: the size of the circles is proportional to the values shown.



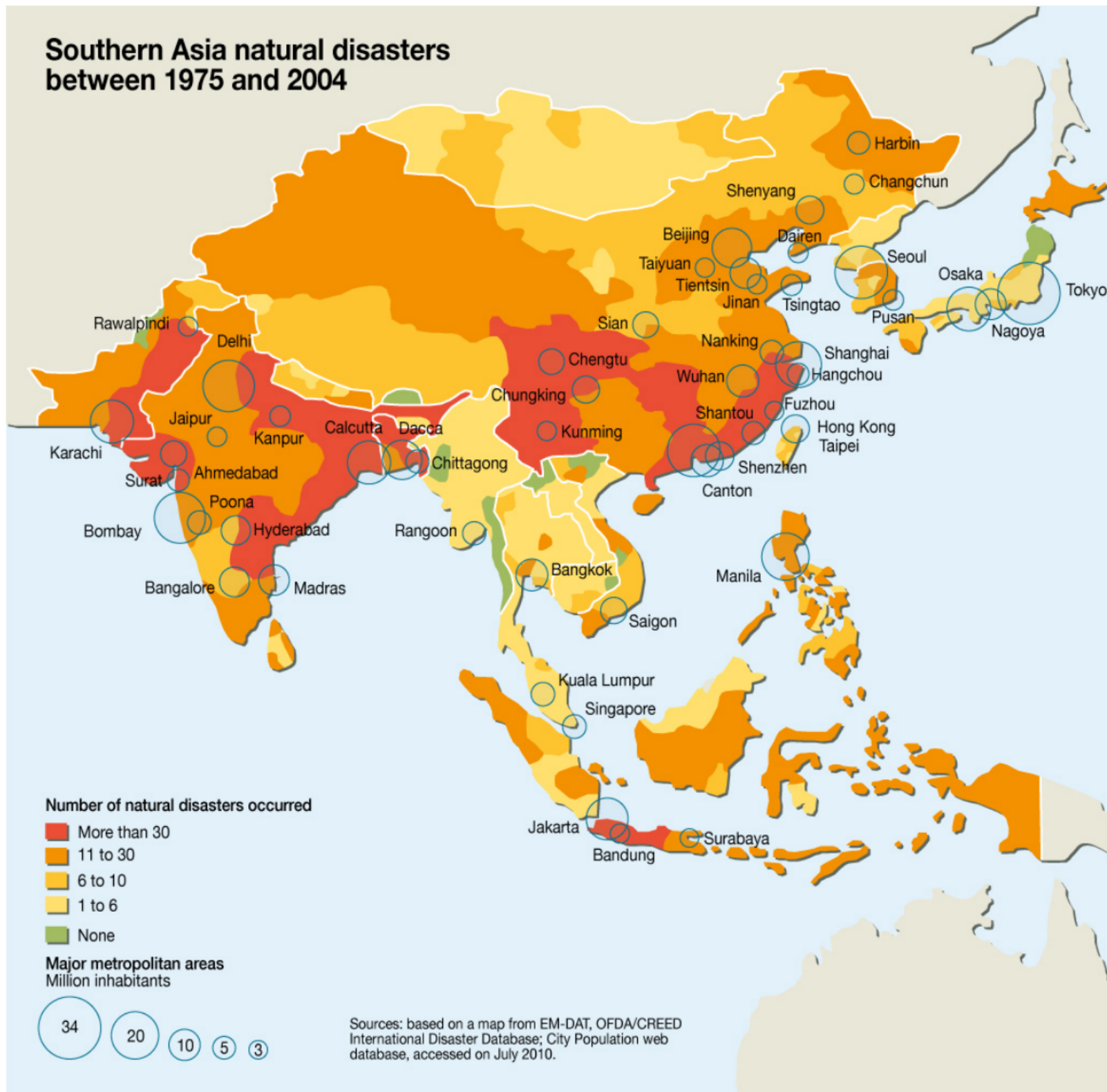
Source: \*EM-DAT, The OFDA/CRED International Disaster Database.



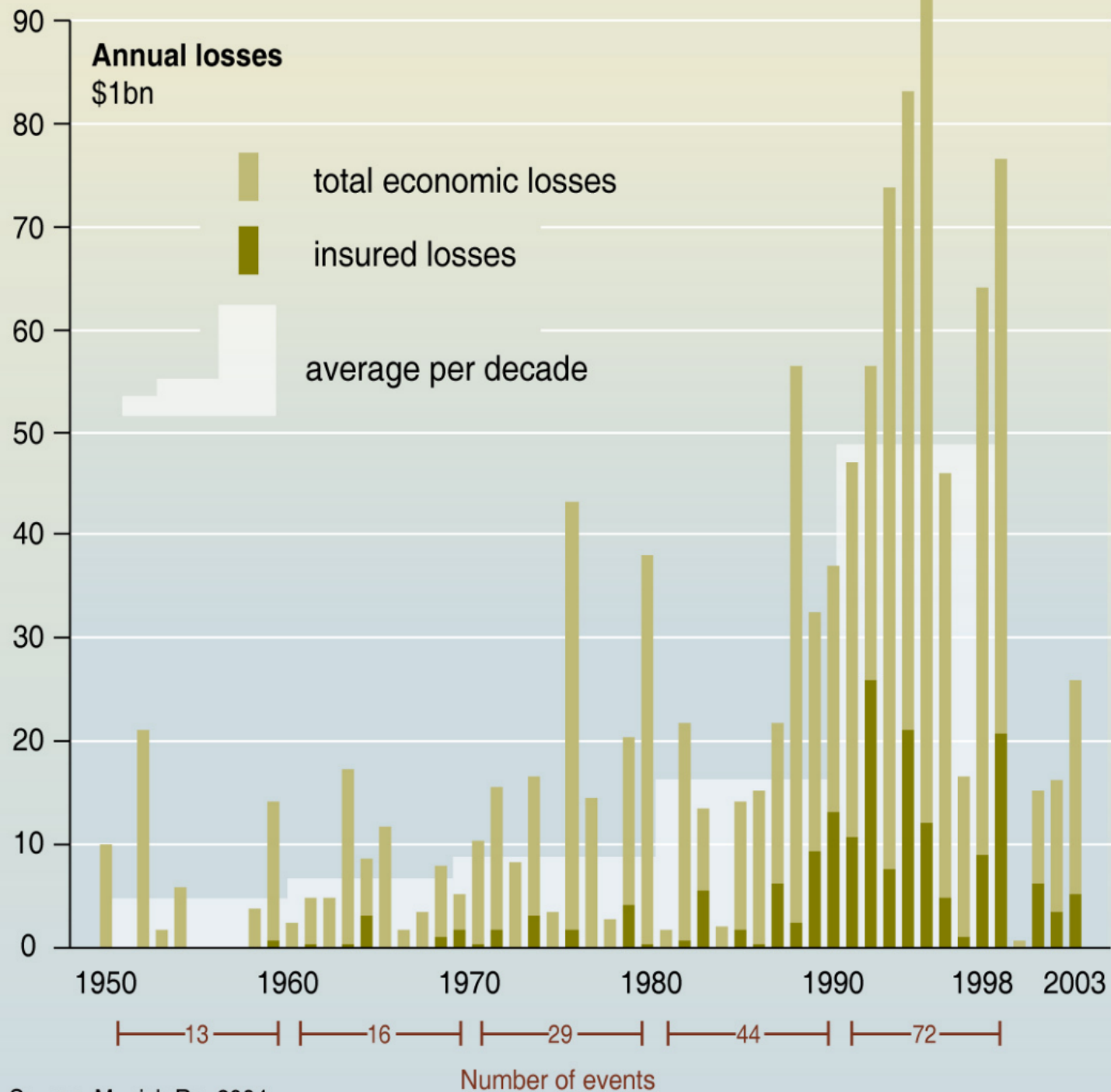


In UNEP/GRID-Arendal Maps and Graphics Library.

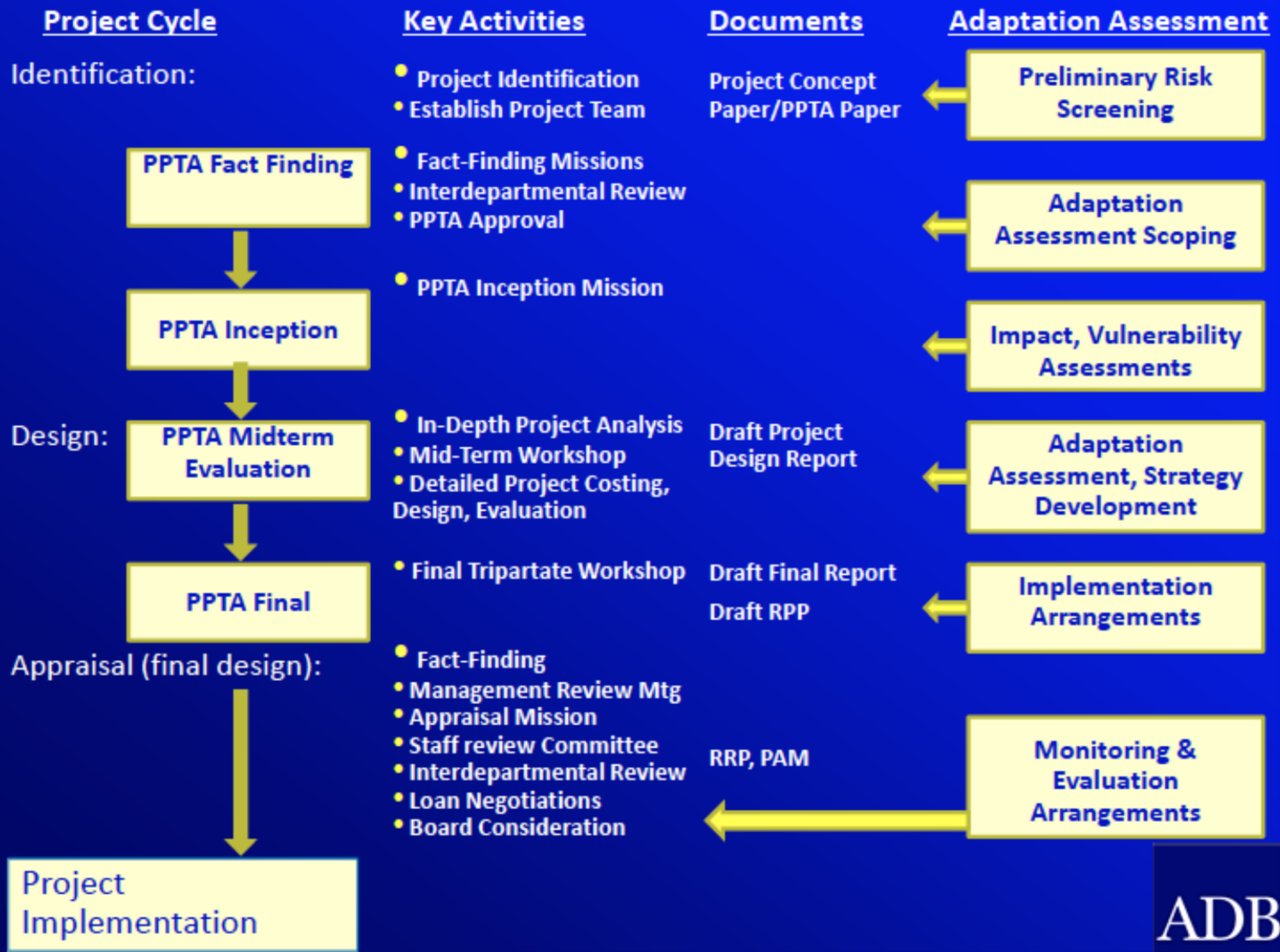
# Southern Asia natural disasters between 1975 and 2004



# Global costs of extreme weather events



Source: Munich Re, 2004.



# what

## structure:

- network, not hierarchy
- not a new institution
- data facility and clearinghouse

## recommendations of WCRP:

- partnership to combine science-driven research with user needs
- data distribution with CMIP5 level of detailed documentation
- communication of best practices to prevent misuse of information

## main points:

- high resolution climate projections
- well documented: uncertainties, limitations of data, user's guides
- outputs from multiple models

A regional climate scenarios consortium and library

## audience:

- development finance and assistance institutions
- national governments
- NGOs involved in planning and implementation of climate change adaptation projects
- other stakeholders: scientists and modeling centers

## funding:

ADB will facilitate resource development with international, bilateral, and multilateral partners

## high priority domains:

- himalayan region
- mekong river basin
- indian subcontinent
- southeast asia

## proposed products:

- hi-res downscaled GCM outputs for priority domains
- support for CORDEX asia experiments
- GCM boundary conditions for regional downscaling
- documentation of model skill and performance
- data portal
- derived products



data, user's guides

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A regional climate scenarios  
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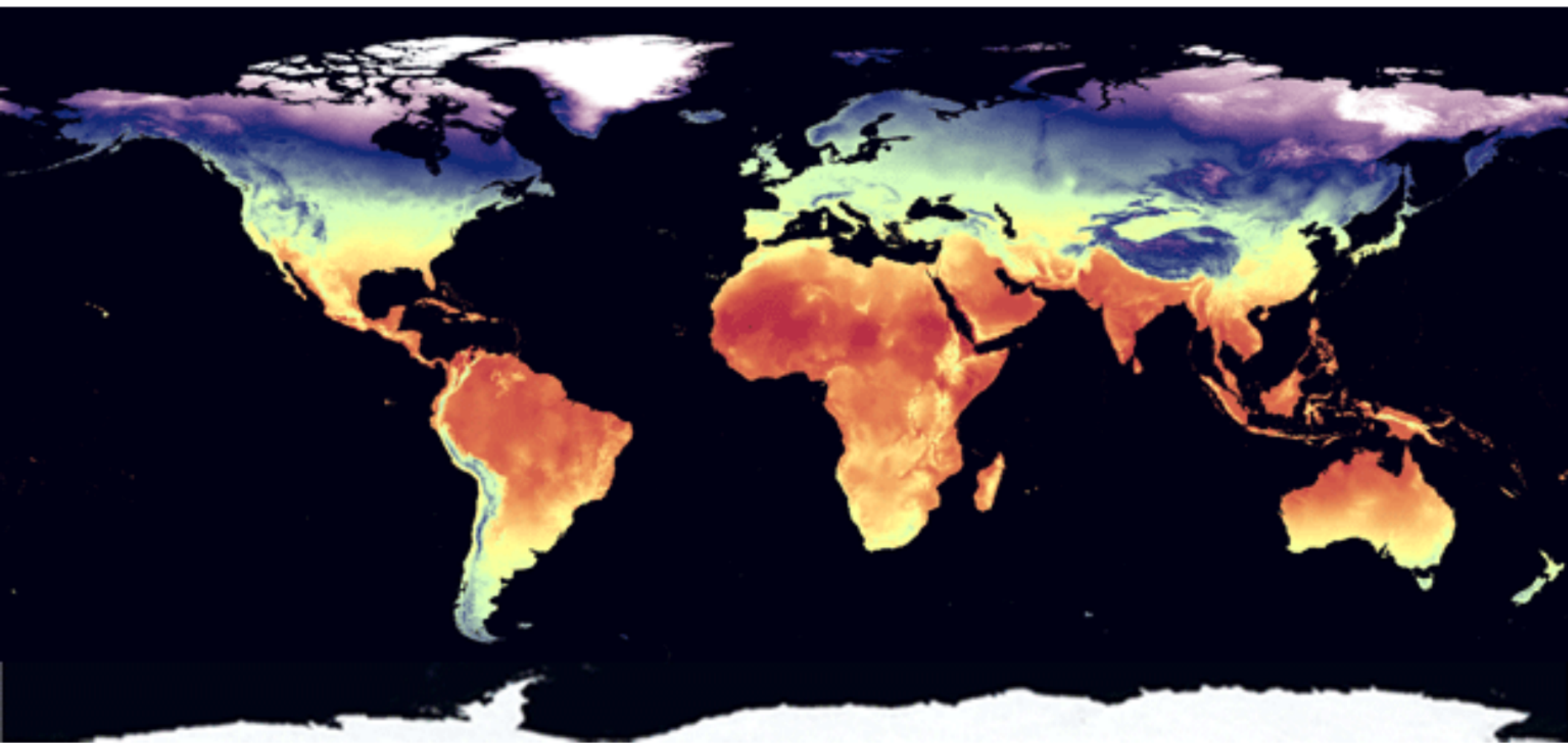
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