

Climate change challenges and tools for the Asia- Pacific : a development finance perspective

Christine Chan, Asian Development Bank

**Scoping Workshop: Enhancing Action of
APN Developing Countries
on Adaptation in the Asia-Pacific Region
20-22 August, 2012 Kobe, Japan**

Climate information and
services as public goods: A
regional climate projections
consortium

Climate proofing guidelines for
infrastructure investments

**Climate information and
services as public goods: A
regional climate projections
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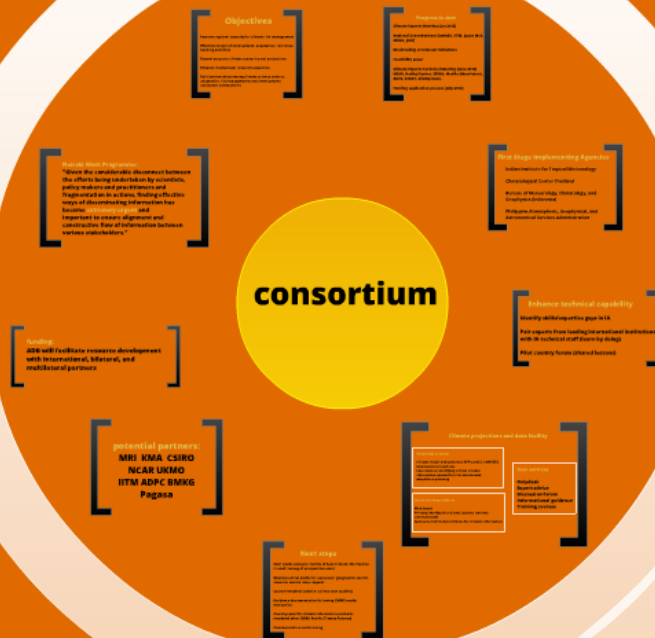
**Climate proofing guidelines for
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A regional climate projections consortium and data facility

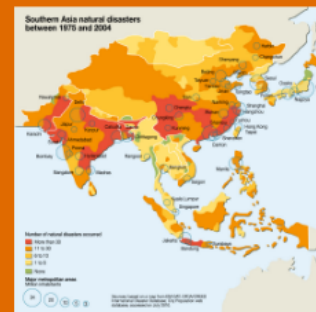
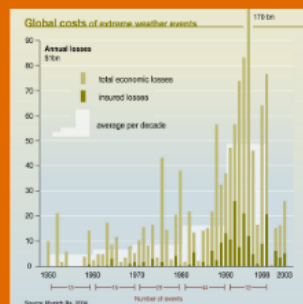
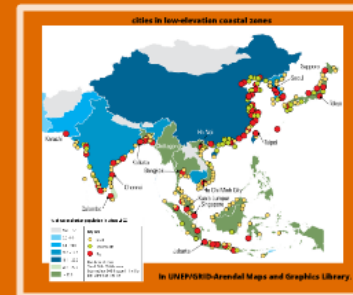
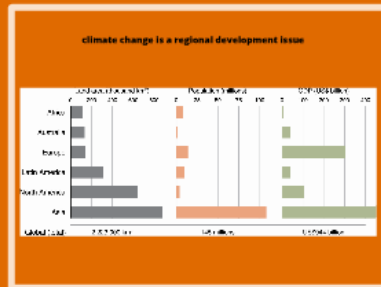
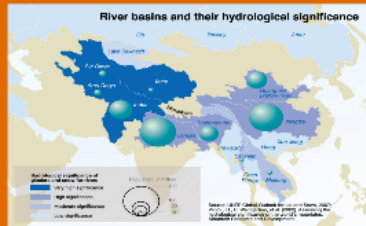
challenges



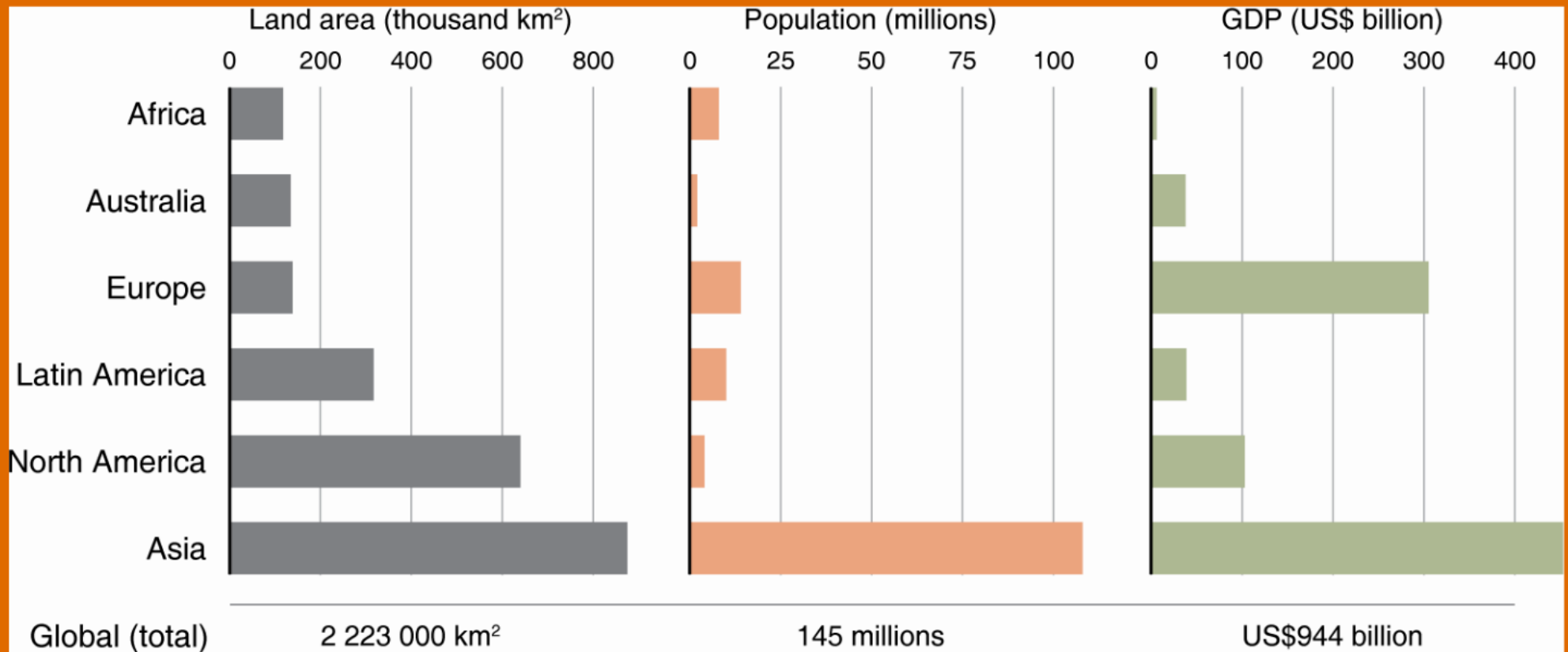
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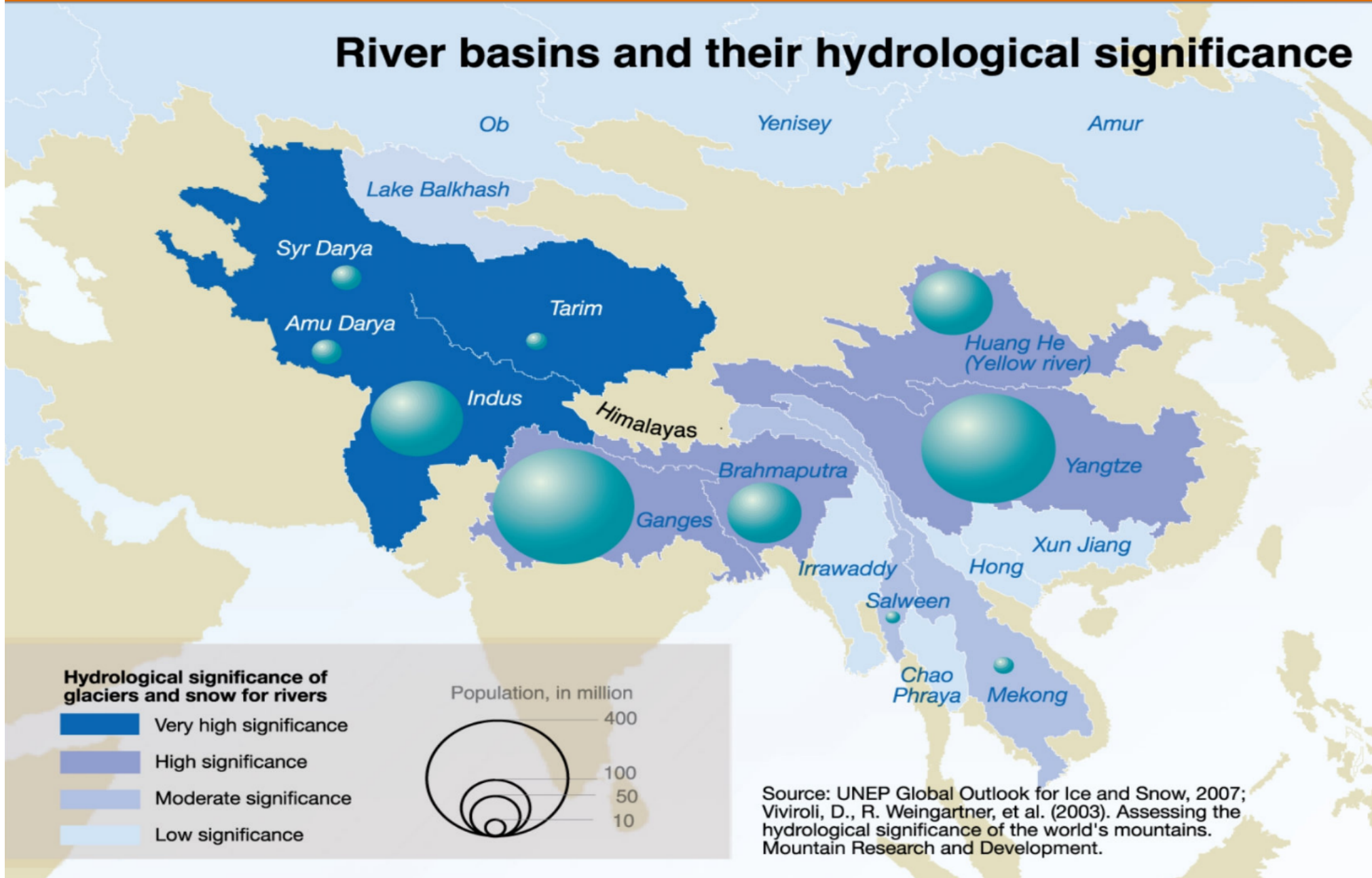
challenges



climate change is a regional development issue



River basins and their hydrological significance

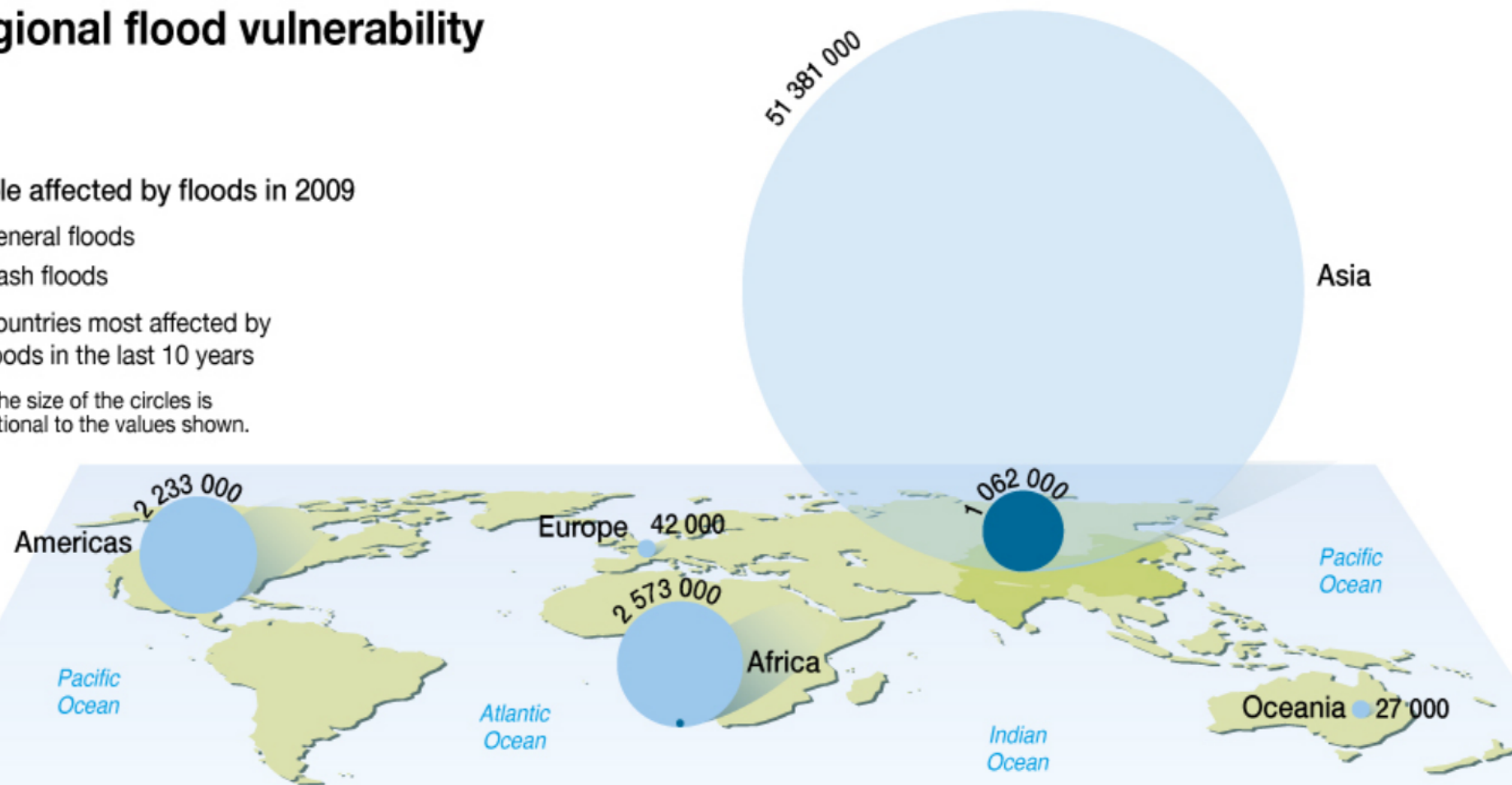


Regional flood vulnerability

People affected by floods in 2009

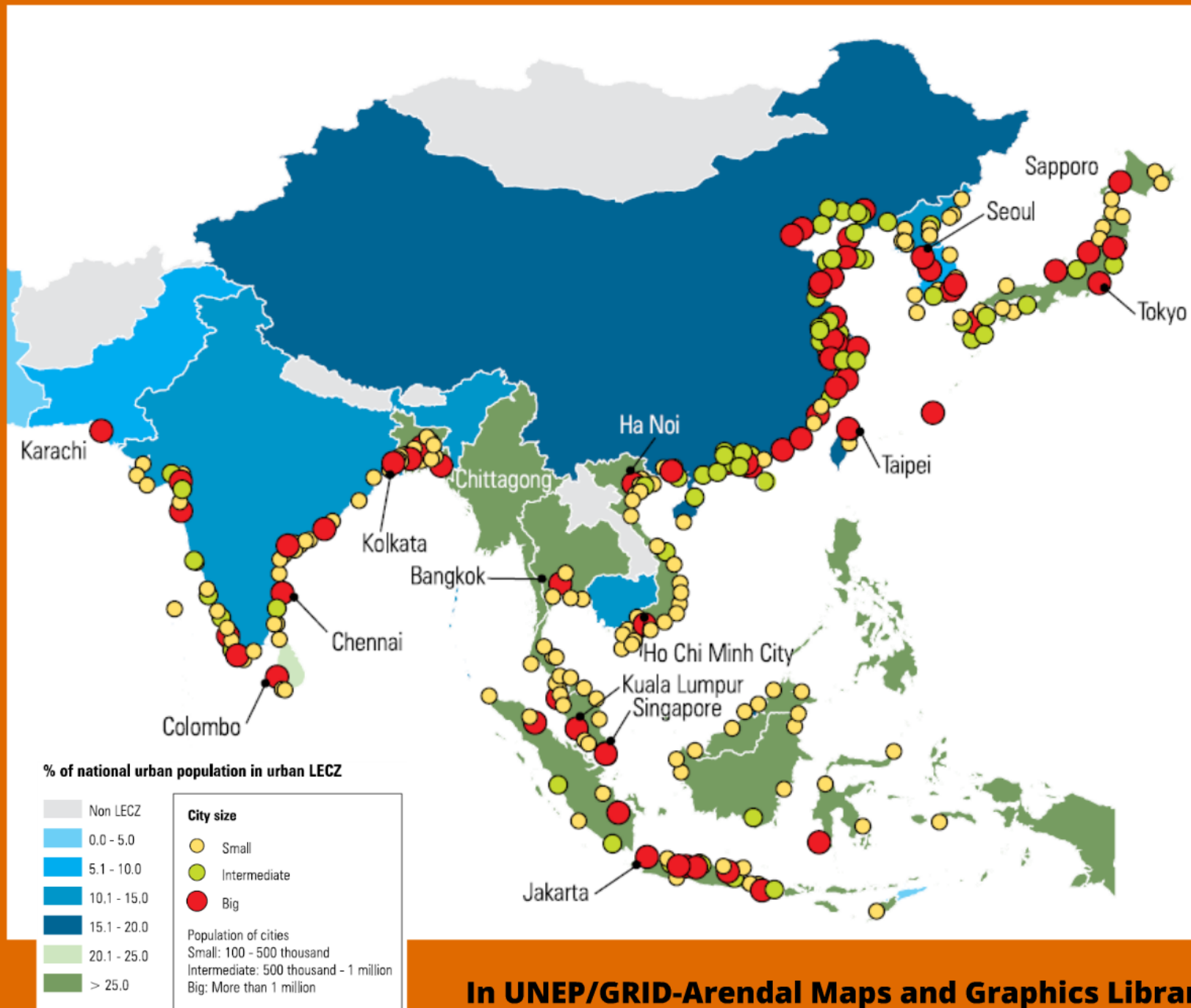
- General floods
- Flash floods
- Countries most affected by floods in the last 10 years

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



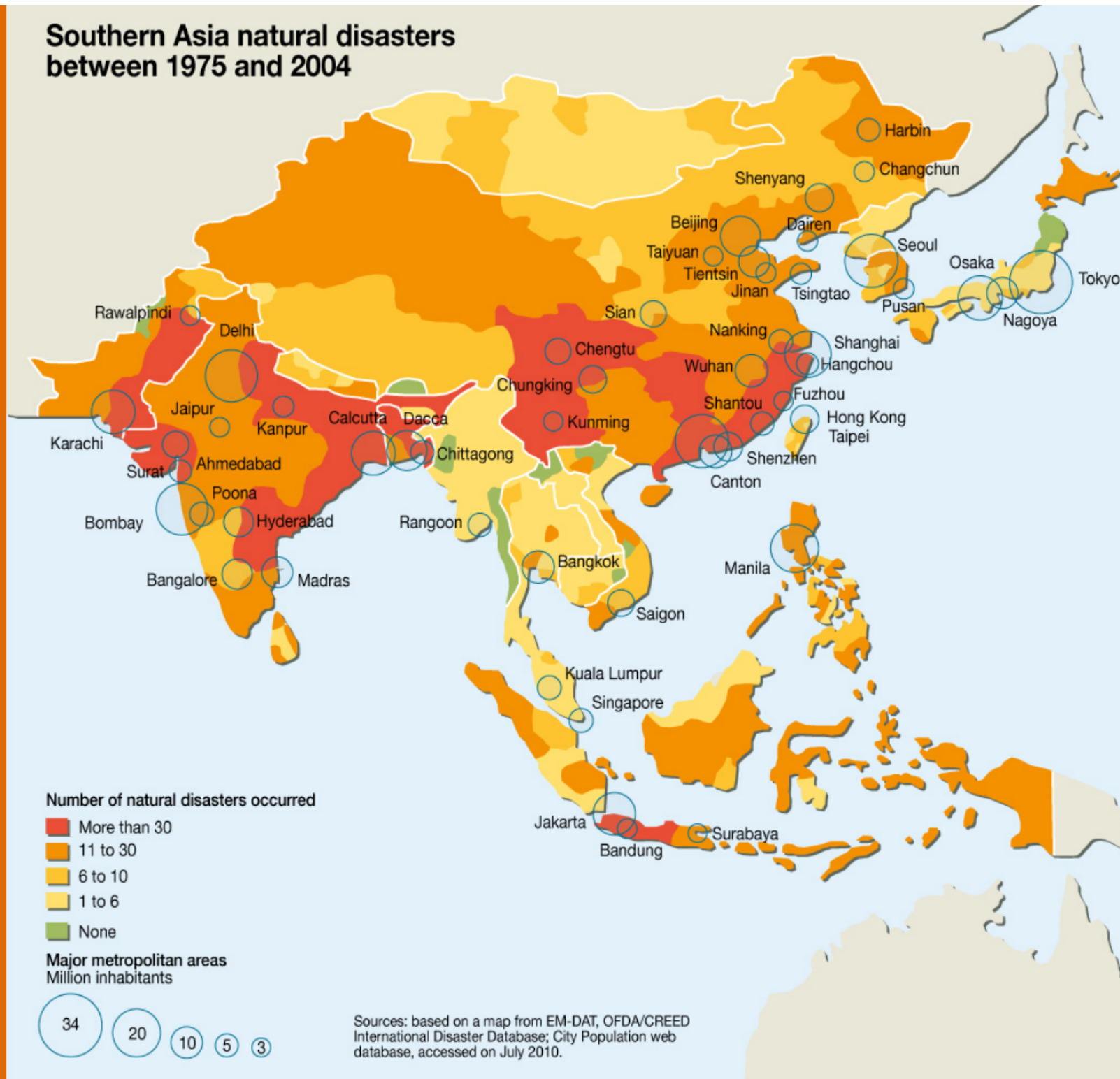
Source: *EM-DAT, The OFDA/CRED International Disaster Database

cities in low-elevation coastal zones

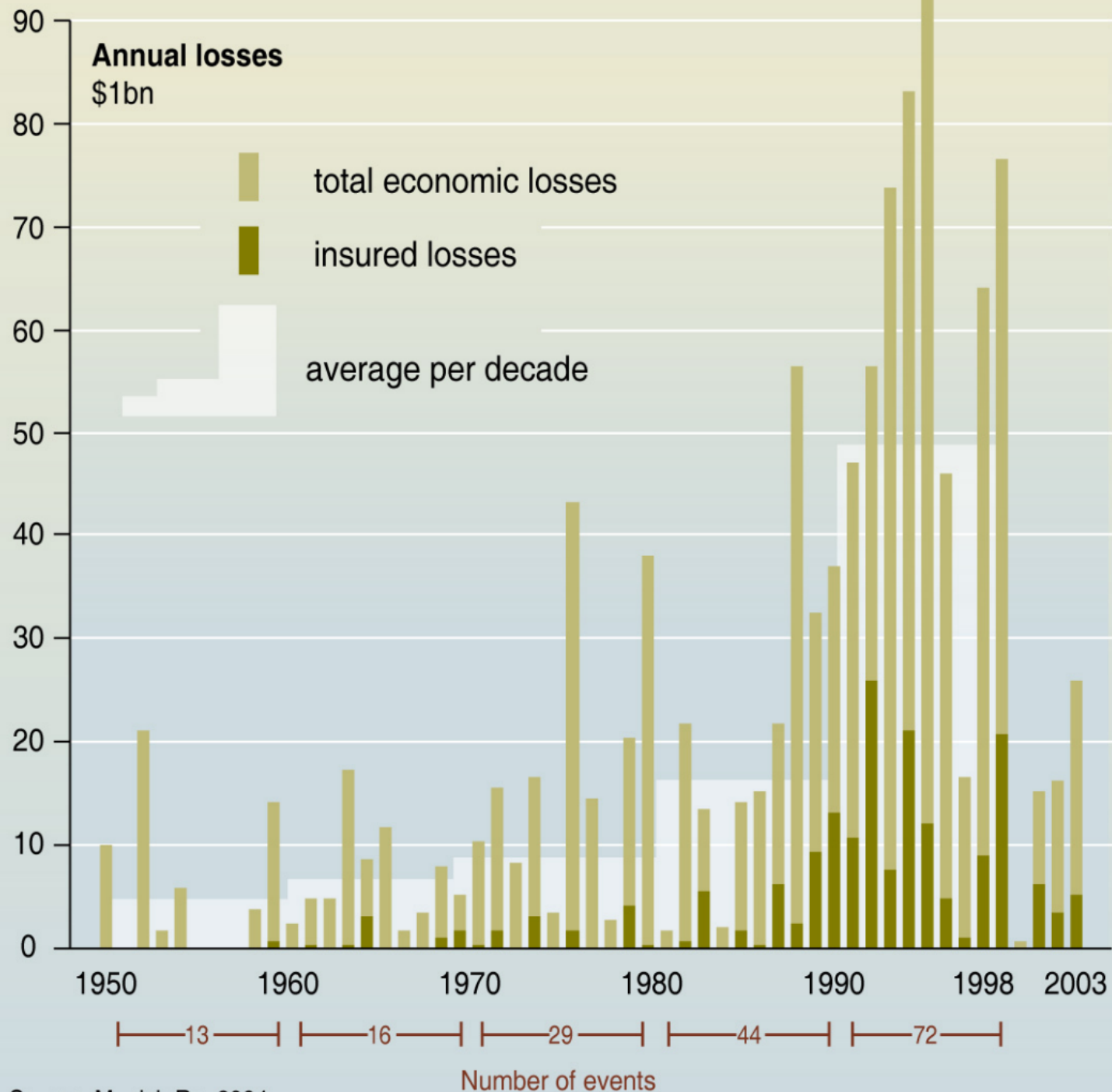


In UNEP/GRID-Arendal Maps and Graphics Library.

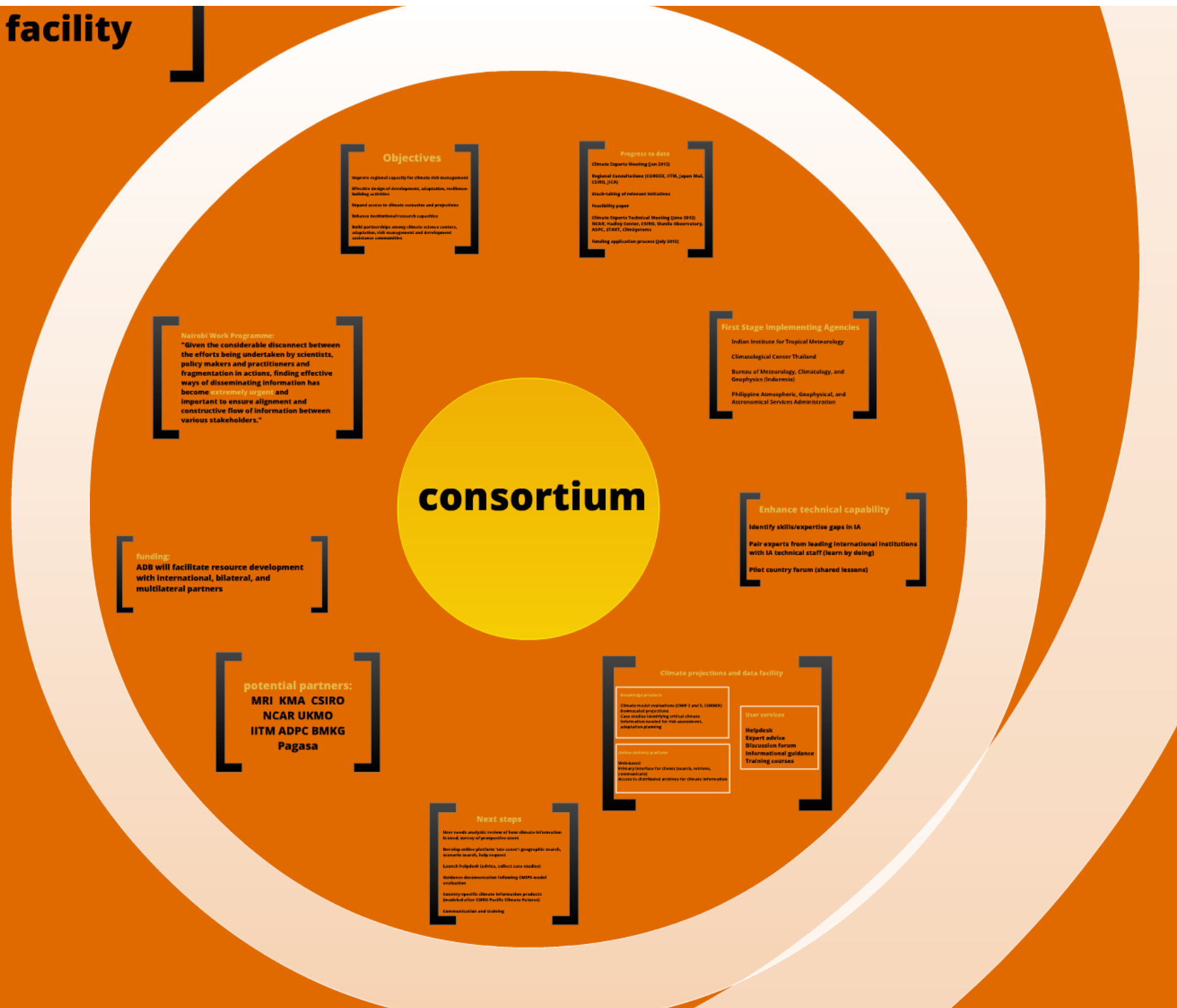
Southern Asia natural disasters between 1975 and 2004



Global costs of extreme weather events



Source: Munich Re. 2004.



Nairobi Work Programme:

"Given the considerable disconnect between the efforts being undertaken by scientists, policy makers and practitioners and fragmentation in actions, finding effective ways of disseminating information has become extremely urgent and important to ensure alignment and constructive flow of information between various stakeholders."

Objectives

Improve regional capacity for climate risk management

Effective design of development, adaptation, resilience-building activities

Expand access to climate scenarios and projections

Enhance institutional research capacities

Build partnerships among climate science centers, adaptation, risk management and development assistance communities

Progress to date

Climate Experts Meeting (Jan 2012)

Regional Consultations (CORDEX, IITM, Japan MoE, CSIRO, JICA)

Stock-taking of relevant initiatives

Feasibility paper

Climate Experts Technical Meeting (June 2012)

NCAR, Hadley Center, CSIRO, Manila Observatory, ADPC, START, ClimSystems

Funding application process (July 2012)

First Stage Implementing Agencies

Indian Institute for Tropical Meteorology

Climatological Center Thailand

**Bureau of Meteorology, Climatology, and
Geophysics (Indonesia)**

**Philippine Atmospheric, Geophysical, and
Astronomical Services Administration**

Enhance technical capability

Identify skills/expertise gaps in IA

Pair experts from leading international institutions with IA technical staff (learn by doing)

Pilot country forum (shared lessons)

Climate projections and data facility

Knowledge products

Climate model evaluations (CMIP 3 and 5, CORDEX)

Downscaled projections

Case studies identifying critical climate information needed for risk assessment, adaptation planning

Online delivery platform

Web-based

Primary interface for clients (search, retrieve, communicate)

Access to distributed archives for climate information

User services

Helpdesk

Expert advice

Discussion forum

Informational guidance

Training courses

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Next steps

User needs analysis: review of how climate information is used; survey of prospective users

Develop online platform 'use cases': geographic search, scenario search, help request

Launch helpdesk (advice, collect case studies)

Guidance documentation following CMIP5 model evaluation

Country-specific climate information products (modeled after CSIRO Pacific Climate Futures)

Communication and training

potential partners:

MRI KMA CSIRO

NCAR UKMO

IITM ADPC BMKG

Pagasa

funding:

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

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challenges



consortium

