

International Conference on Science and Technology for Sustainability 2008
In Search of Sustainable Well-Being
September 13, 2008
Tokyo Station Conference

Session 2

Social Common Capital and Well-Being

A Picture of the World

- Urbanization
- Natural disasters
- Poor infrastructure for health



19 urban regions were over 10 millions
 41 regions were over 5 millions

2000

(Prof.Okata, cSUR, UT,2008)



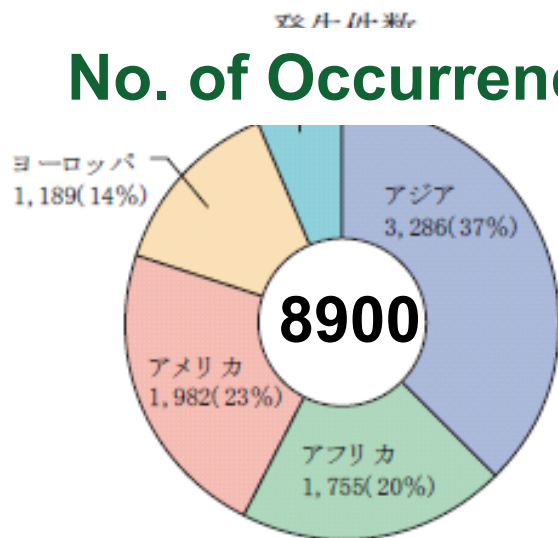
23 urban regions will be over 10 millions,
 60 regions will be over 5 millions,
 627 millions people will live in these 60 Megacities

2015 :

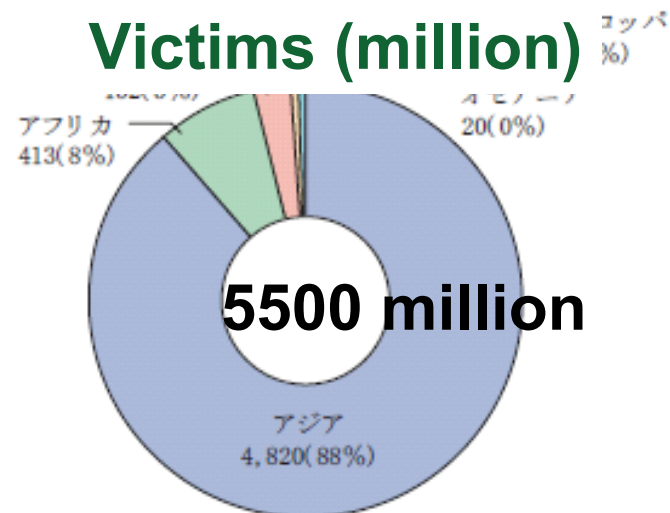
(Prof.Okata, cSUR, UT,2008)

Natural Disasters during 1977-2006 in the world

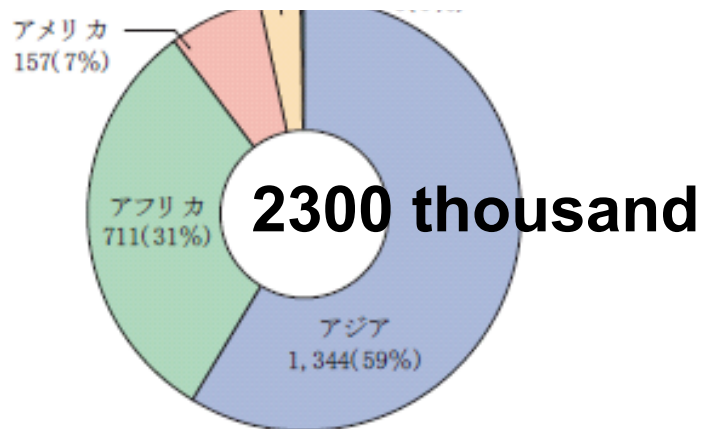
No. of Occurrence



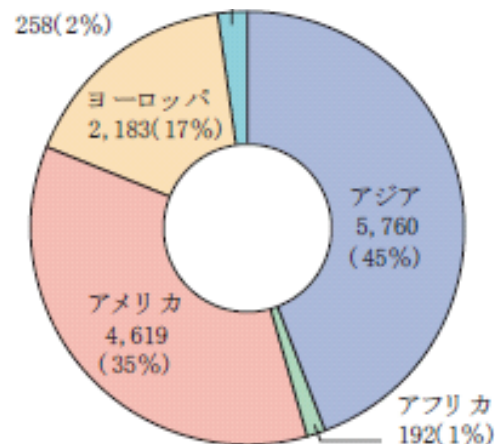
Victims (million)



Deaths (thousand)



Damages (100million \$)



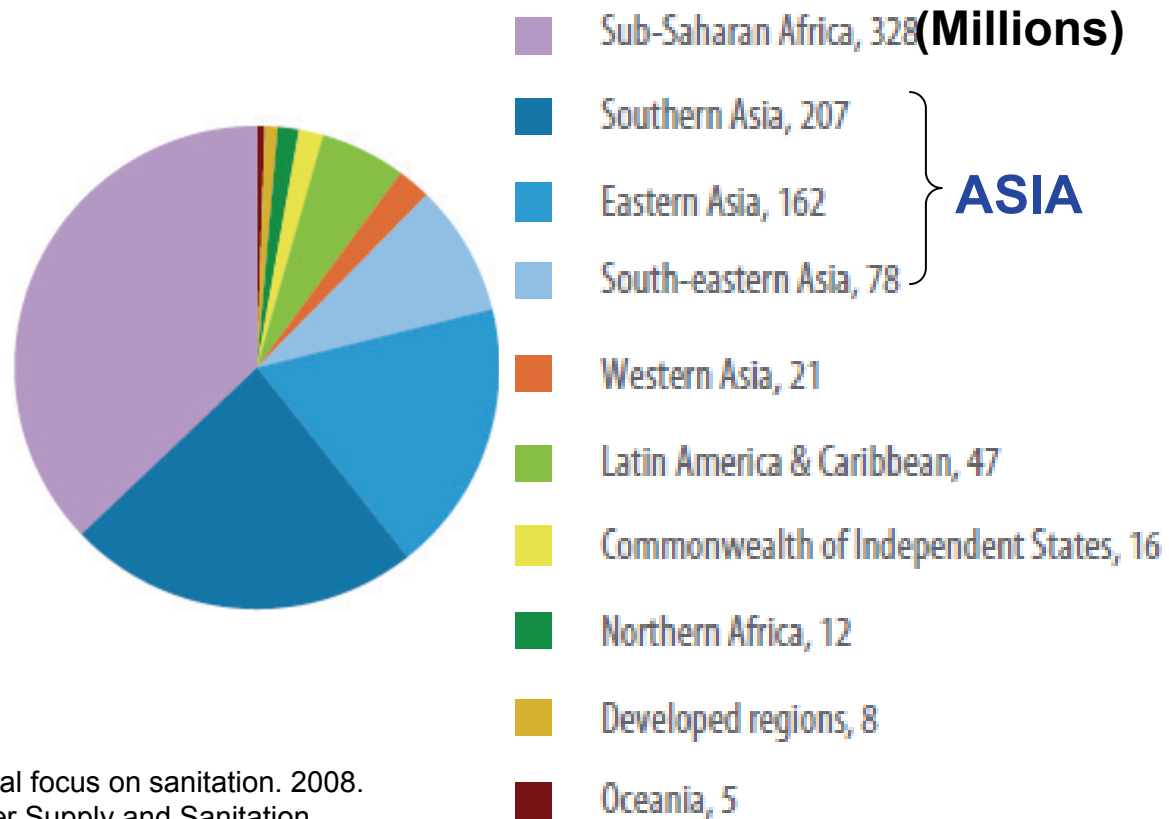
資料: CRED, アジア防災センター資料を基に内閣府において作成。

(source: Disaster Prevention-White Paper 2008, Japanese Government)

Population using unimproved drinking water source in 2006

Sub-Saharan Africa and Asian regions have huge needs for drinking water improvement in the population base.

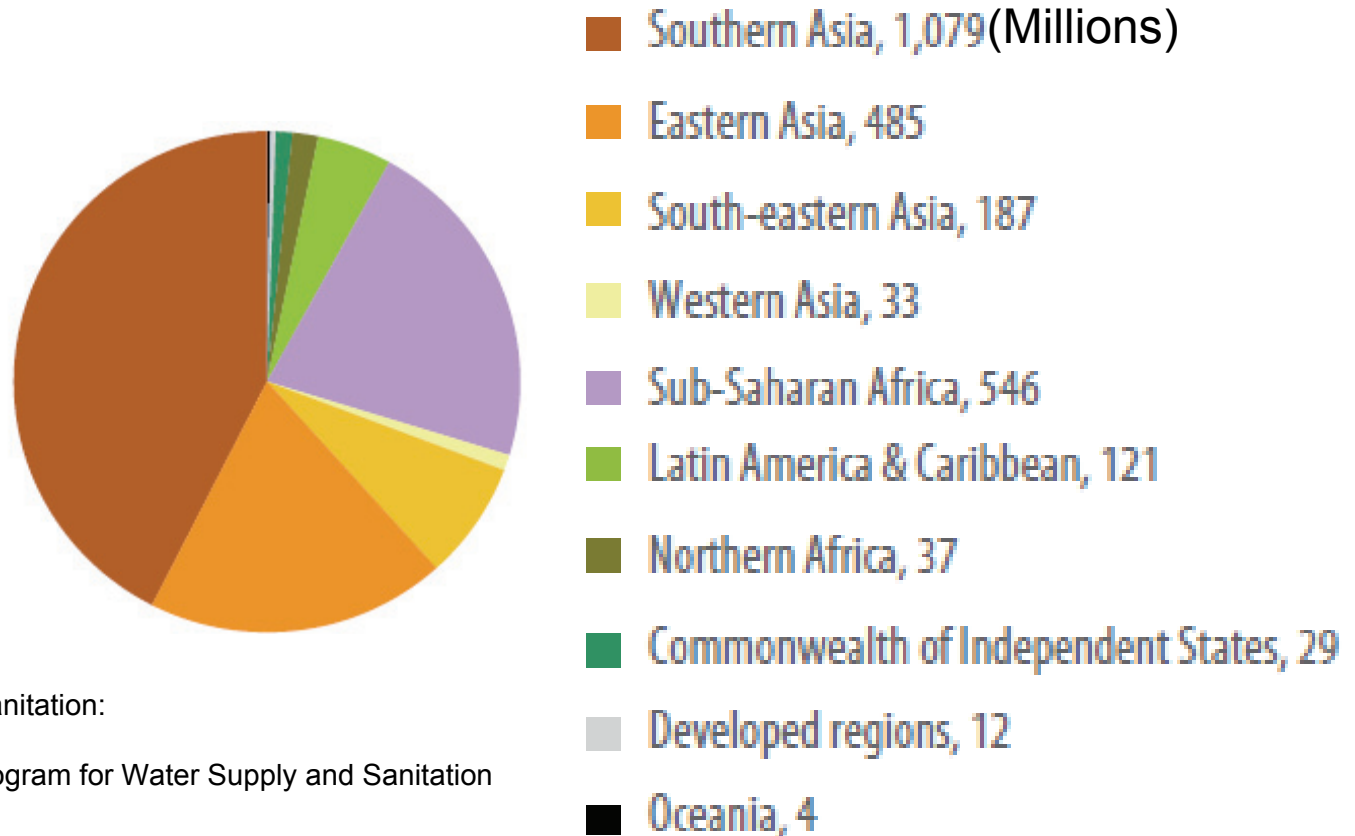
Note: Unimproved drinking water sources include unprotected dug wells, unprotected springs, cart with small tank/drum, bottled water, tanker truck, and surface water (river, dam, lake, pond, stream, canal and irrigation channels).



Progress on Drinking-water and Sanitation: special focus on sanitation. 2008.
WHO/UNICEF Joint Monitoring Program for Water Supply and Sanitation

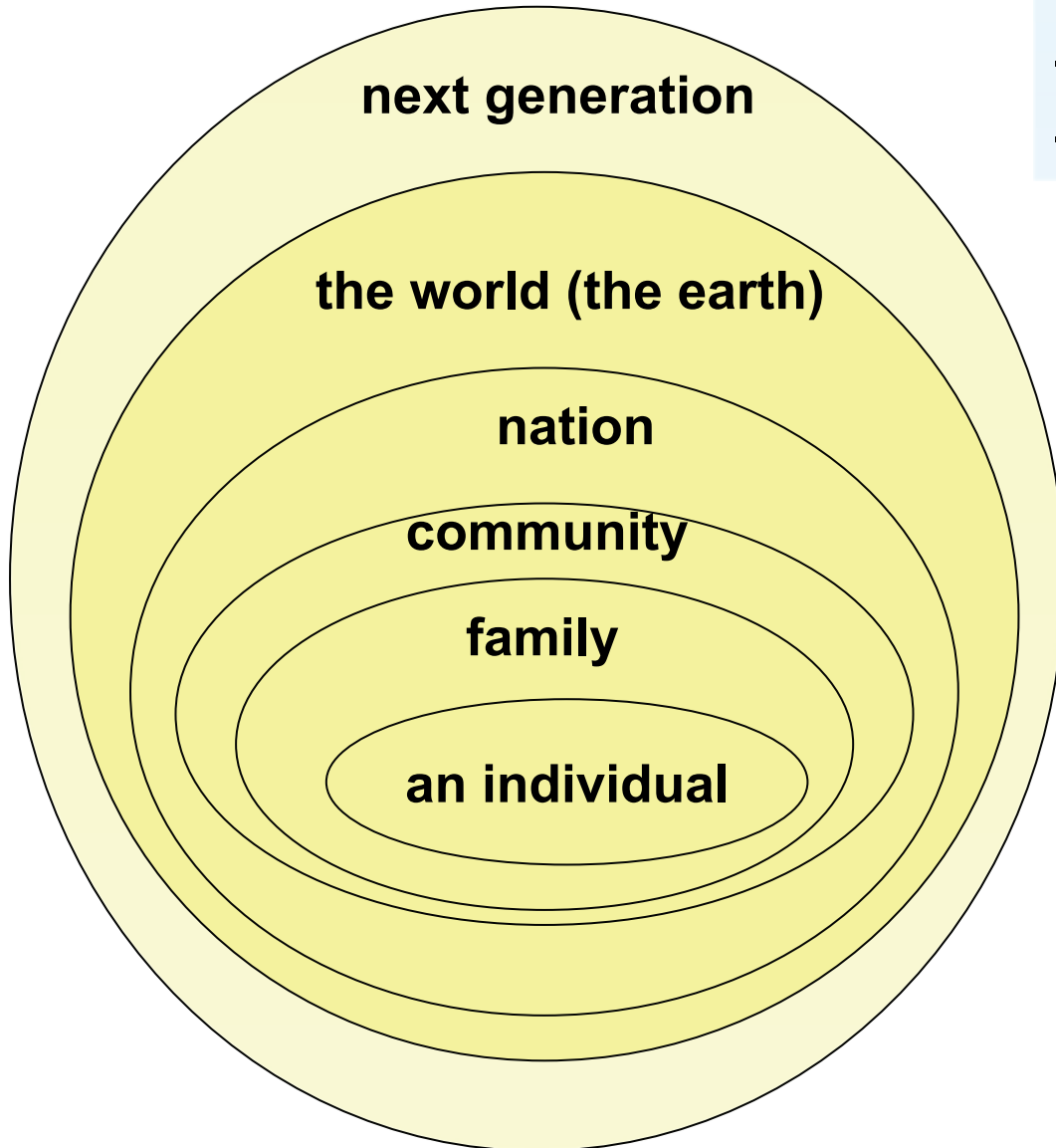
Population without improved sanitation in 2006

More than 2.5 billion people do not use an improved sanitation facility in the world; almost 1.8 billion of them are in Asia.



Progress on Drinking-water and Sanitation:
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Well-Being of whom:



Categories of well-being

- Fulfillment of desires
- Resources
- Value in lives



Social Common Capital

- Nature
- Infrastructure
- Social systems

Usual

Unusual: (disasters, war, fear to risks.....)

Process of decision making for well-being

Who has responsibility for: How do we do:

- Invention
- Innovation
- Design and planning
- Management
- Control
- Operation
- Maintenance
- Rehabilitation
- Regulation
- Public consensus
- - - - -

**on policy, technology and system
regarding to well-being ?**

Session 2

1. Policies for sustainable well-being in the light of increasing **natural disasters** around the world (M. Hamada)
2. Perspective of sustainable well-being for regeneration of urban-rural environment by creating **green and water infrastructure** as a social common capital (M. Ishikawa)
3. **Urban water quality**: Will it be a priority for the sustainable development of cities from the developing world in the XXI Century? (B. Jimenez)
4. **Water-Energy linkages** and technology challenges (G. Olsson)
5. How to realize **economical development of developing countries** within the restriction of global climate change (I. Yasui)