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11th hour to MDGs

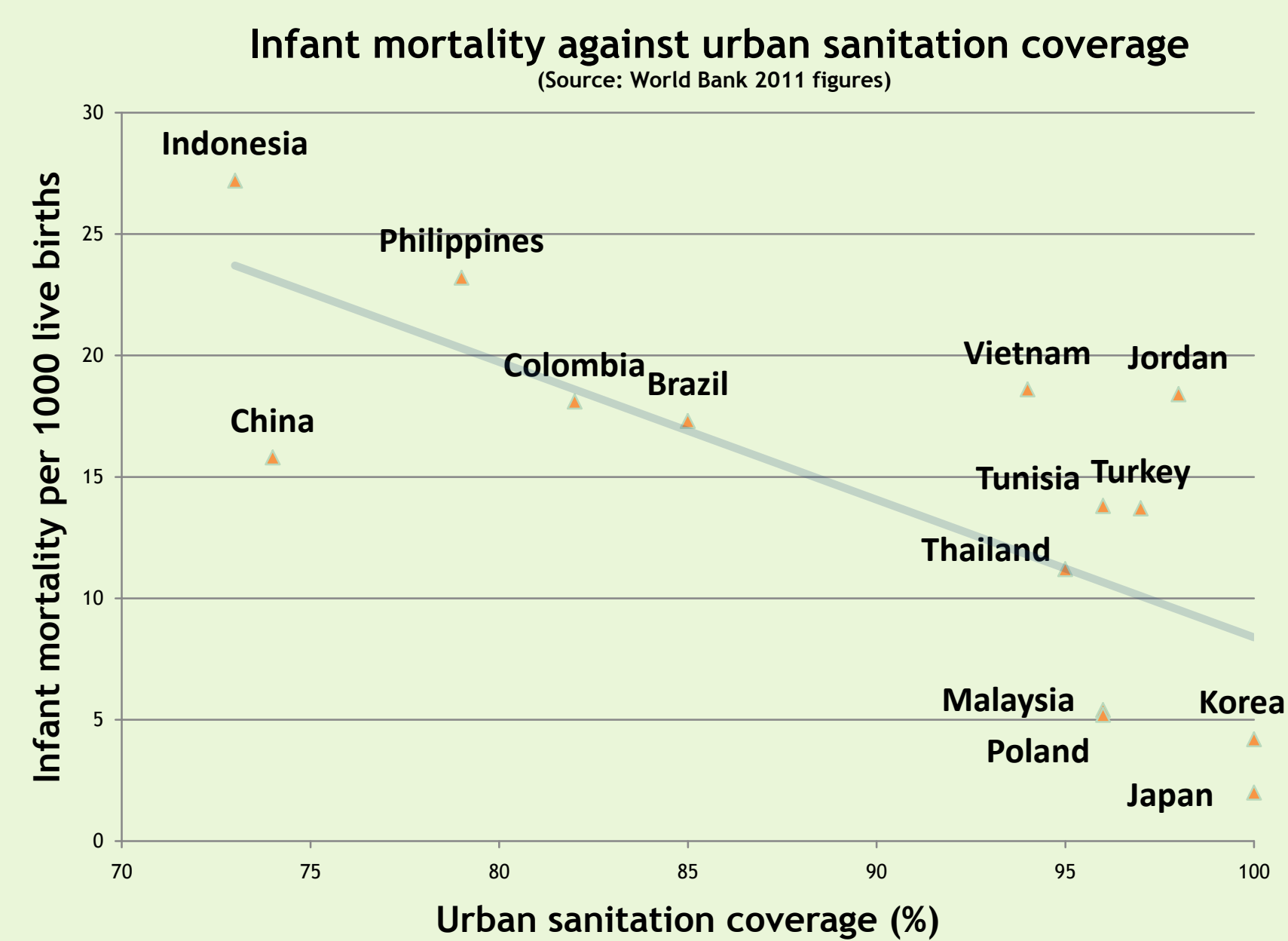
3rd Asian Sanitation Dialogue
27–29 May 2014 • Asian Development Bank, Manila, Philippines



Stephen Groff

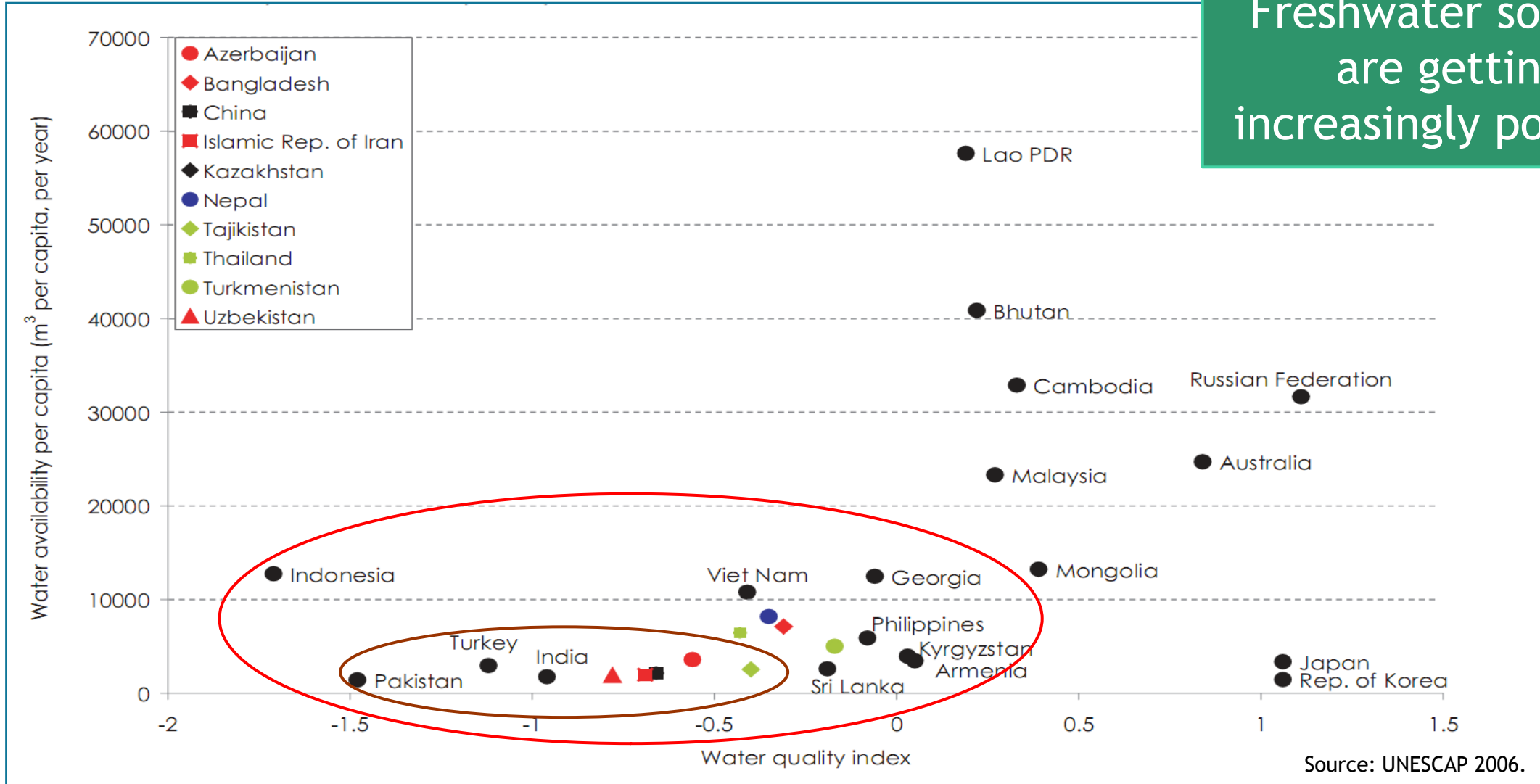
Vice President, ADB

Health issue



Environmental issue

Freshwater sources are getting increasingly polluted



Source: UNESCAP 2006.

Water Availability vs. Water Quality
(Below 1700 m³/year per capita is water stressed area)



Economic issue

Country	Total Impact (US\$, per year)	Impact as % of GDP
Bangladesh	4.2 B	6.3
India	53.8 B	6.4
Pakistan	5.7 B	3.9
Cambodia	448 M	7.2
Indonesia	6.34 B	2.3
Lao PDR	193 M	5.6
Philippines	1.4 B	1.3
Viet Nam	780 M	1.3

- ▶ **\$71 billion** investments needed to deliver improved sanitation



Source: Water and Sanitation Program. Economics of Sanitation Initiative.

Social issue

Sanitation challenges of the slums



Solutions are available; Actions are needed



Septage management



Decentralized treatment



Community-based sanitation



Constructed wetlands

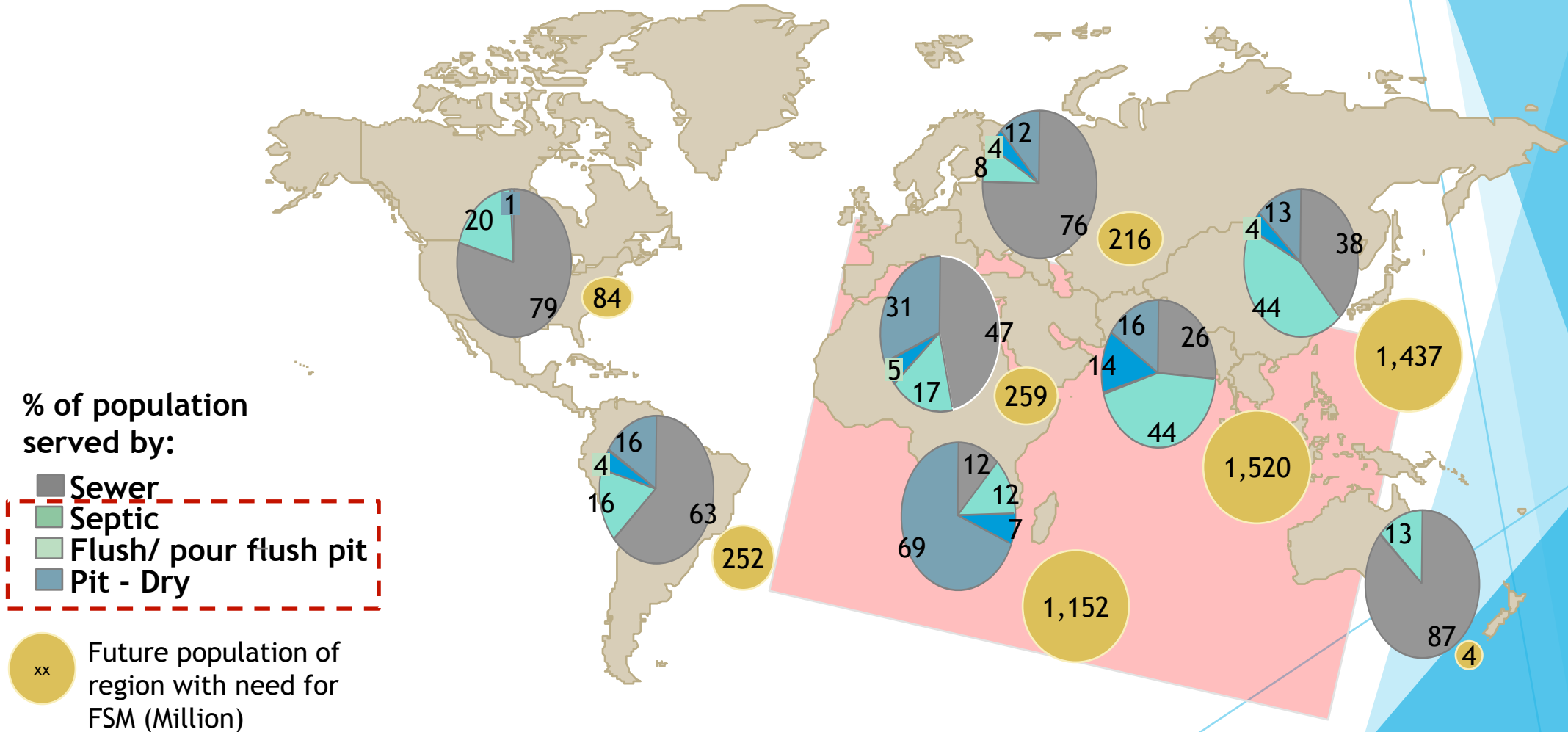


Innovative technologies

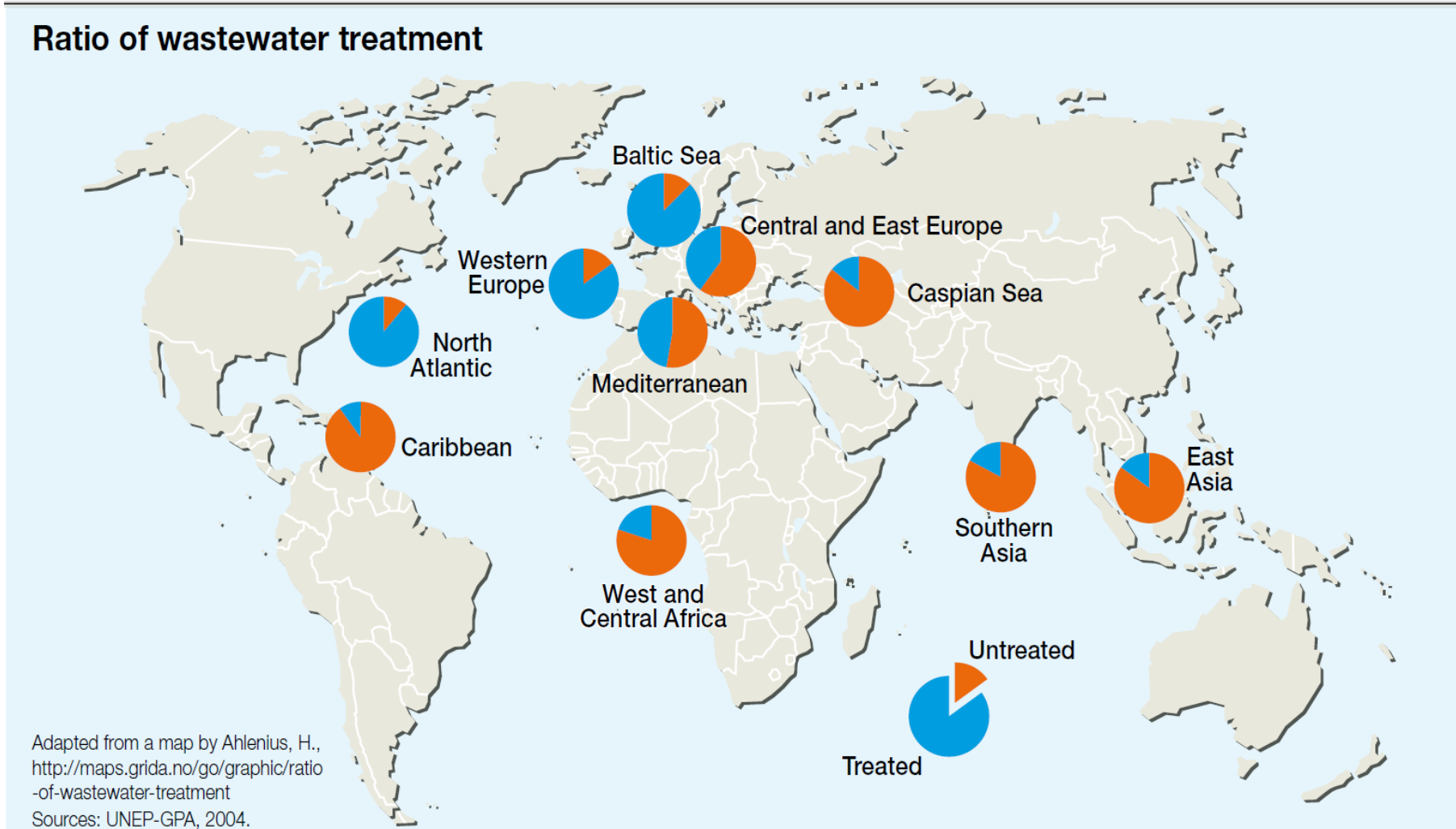


Centralized treatment

A business model for sanitation



Huge market for wastewater management



90% of wastewater is discharged to waterways without treatment

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Why are we here?

- ✿ *Knowledge sharing*
- ✿ *Initiate actions*
- ✿ *Enhance partnerships*