



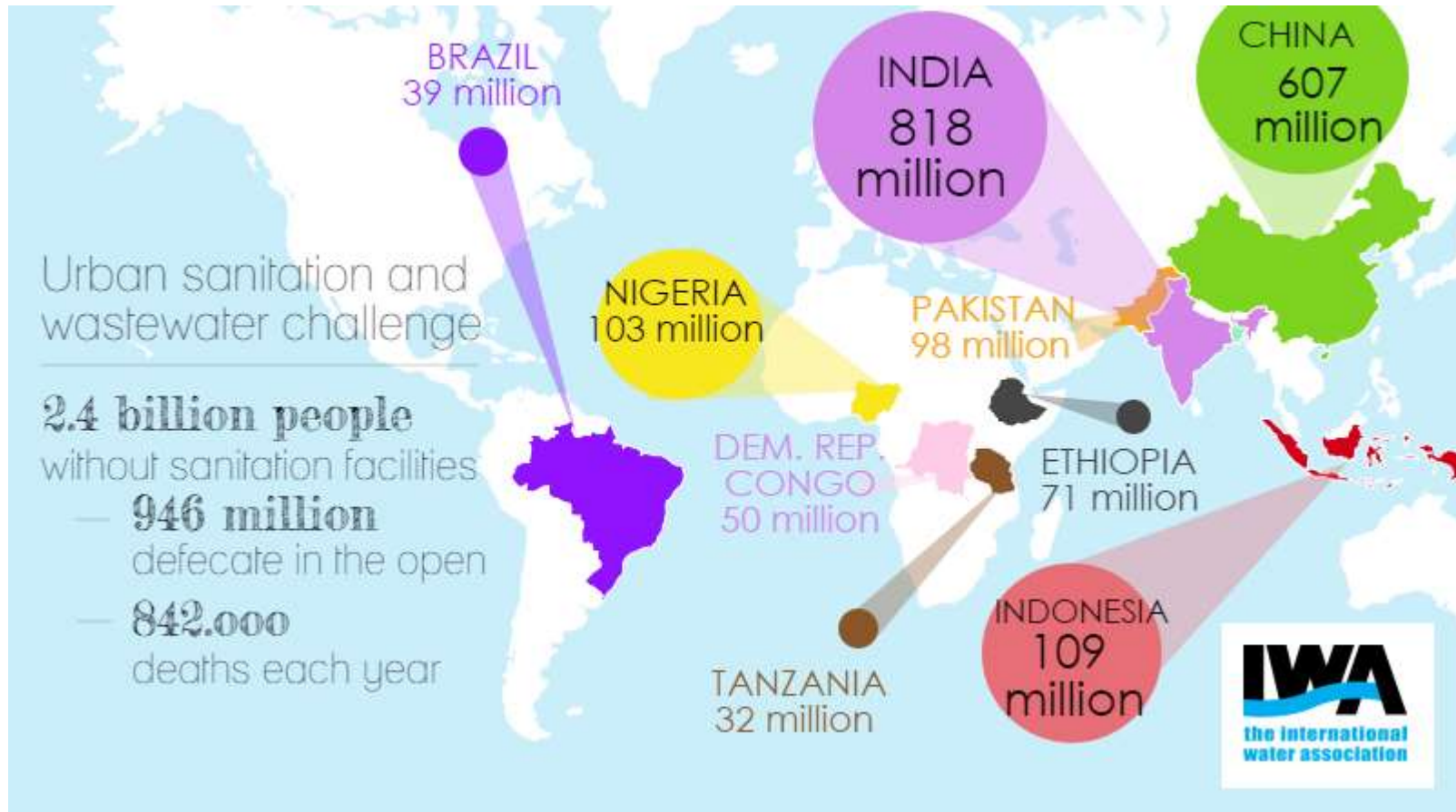
Wastewater, and the Role of Utilities to Achieve the SDGs

MARIE R. SAGEN

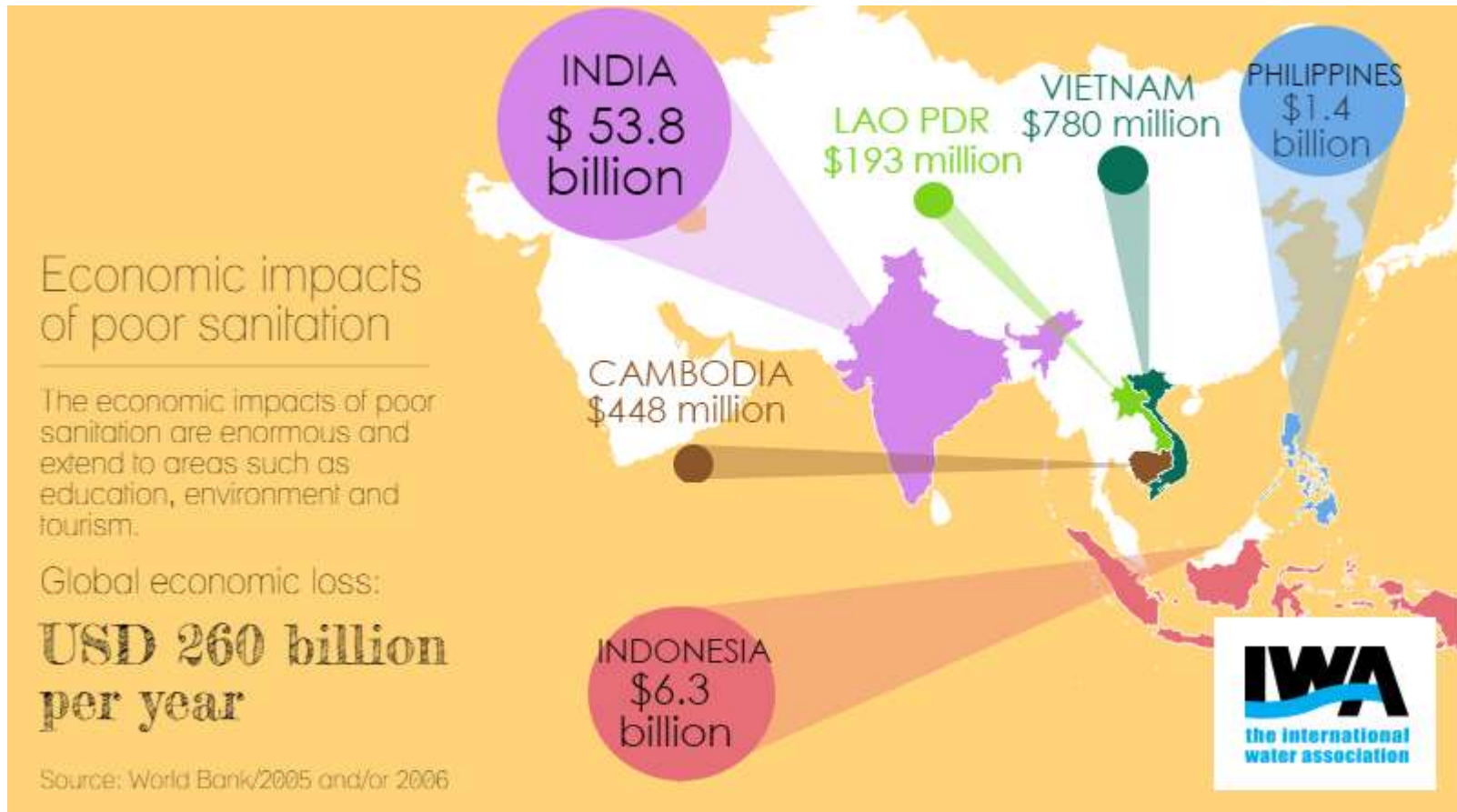
THE CHALLENGE TODAY

- 1 in 3 people, or 2.4 billion, are still without sanitation facilities
- More than 80 percent of wastewater is discharged untreated into water bodies

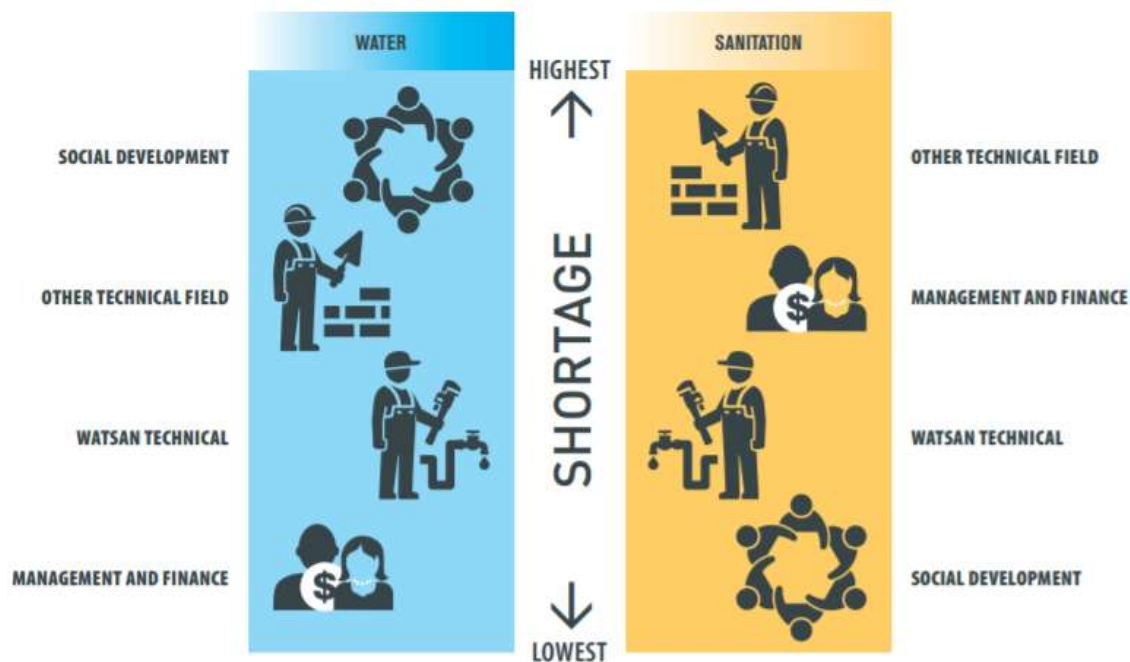
SANITATION



SANITATION



SANITATION



OTHER TECHNICAL FIELD: 307 000
MANAGEMENT AND FINANCE: 256 000
WATSAN TECHNICAL: 87 500
SOCIAL DEVELOPMENT: 45 500

TOTAL OVERALL SHORTAGE 696 000*

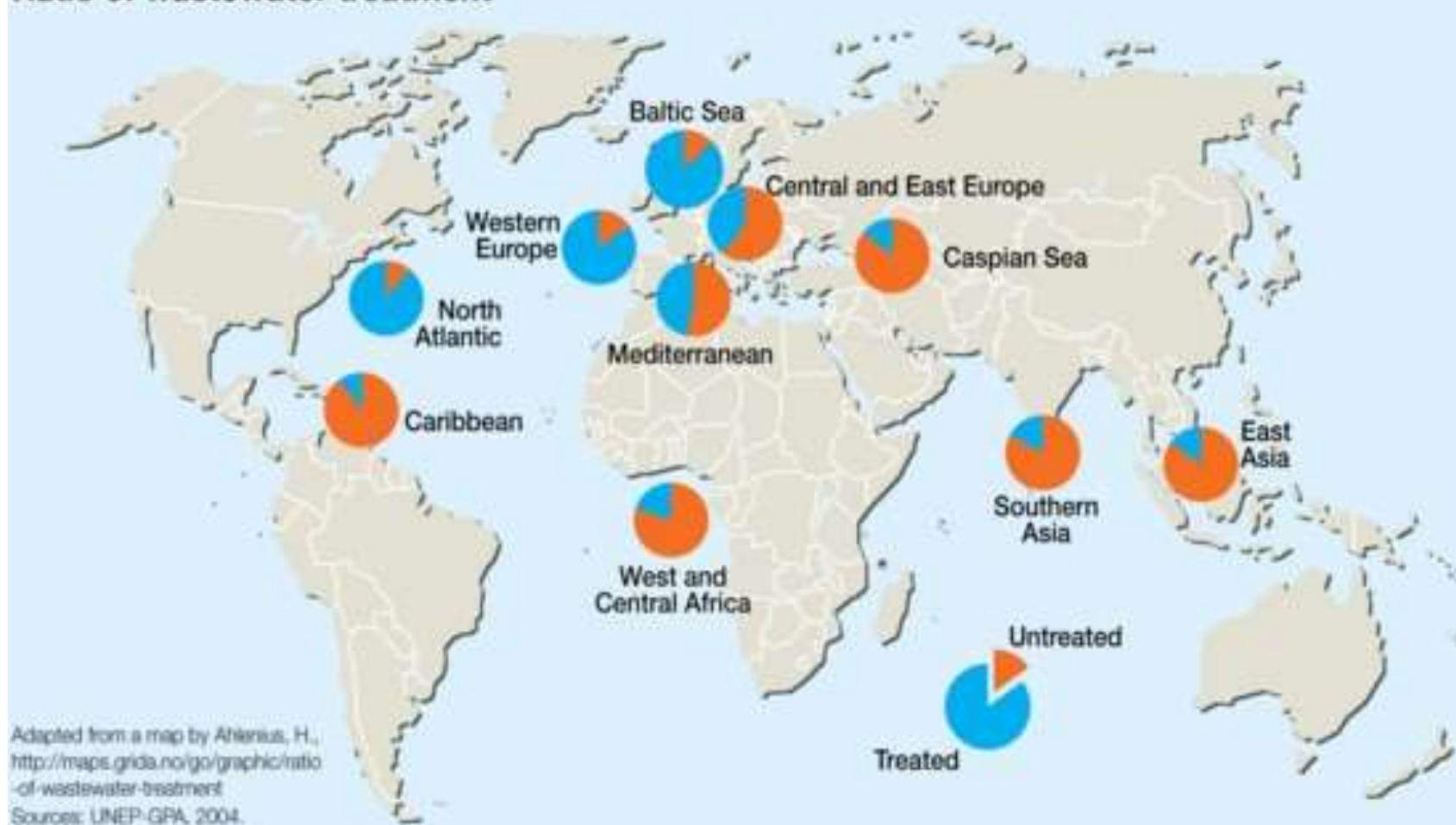
* This overall shortage excludes the Philippines as that country did not segregate into the same categories.
The segregation of shortages according to job categories was only done in nine countries in phase 2, and here rounded total figures are presented.

THE CHALLENGE TODAY

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-
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WASTEWATER

Ratio of wastewater treatment



A WORLD IN WHICH WATER IS WISELY MANAGED

2.4 billion
people
without
access to
sanitation

80% of wastewater
untreated

How do we get
there?

Universal access to
adequate and
equitable
sanitation

Halving the
proportion of
untreated
wastewater

substantially
increasing
recycling and safe
reuse

EXAMPLES OF UTILITIES LEADING THE WAY



How do we get
there?

UGANDA – CITY AND UTILITY PARTNERSHIP TO ACCELERATE SUCCESS



- Free joint call center for better services
- Public-private-partnership and certification system with pit emptiers
- Sludge reuse and energy recovery from treatment plants
- GIS mapping and home visits

NETHERLANDS – REUSE THAT CHANGED THE REGULATION



AUSTRALIA – WASTEWATER MINING

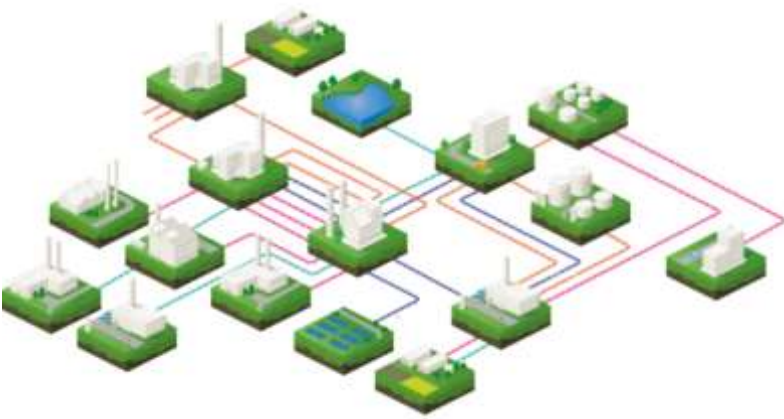


Purple pipes with reclaimed water

- Irrigation of parks & recreational areas
- Aquifer Reserves
- Toilet flushing
- Washing cars



DENMARK – PARTNERSHIPS FOR AN INDUSTRIAL SYMBIOSIS



- Commercial agreements between industrial partners
- Over 30 resource streams today



- Resource savings, for example 3 million m³ water
- Economic savings, 1 million EUR per year
- Reducing CO₂ emissions, with 275 000 tons per year

THANK YOU

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