

Appropriate Operation and Maintenance of Water Supply and Sanitation Facilities

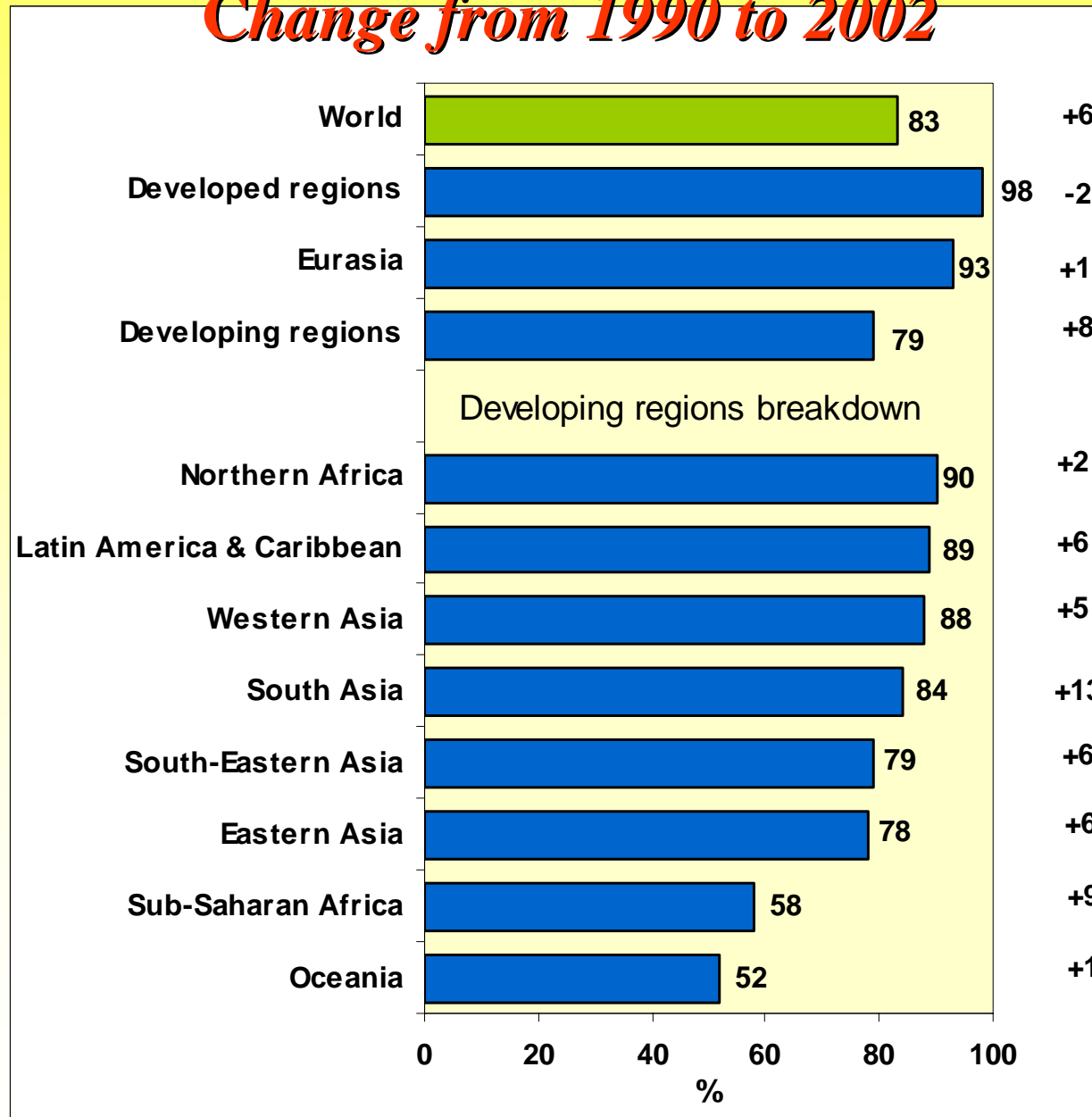
Jointly held by

National Institute of Public Health (NIPH), Japan,
Japan International Cooperation Agency (JICA),
International Water Association (IWA), and
Operation and Maintenance Network (OMN)

Health hazards of poor water supply and sanitation

- 4 billion cases of diarrhoea each year
- 1.8 million deaths by diarrhoeal diseases
- 10% of the developing world population affected by intestinal worms
- 6 million people are blind from trachoma
- 200 million people in the world are infected with schistosomiasis.

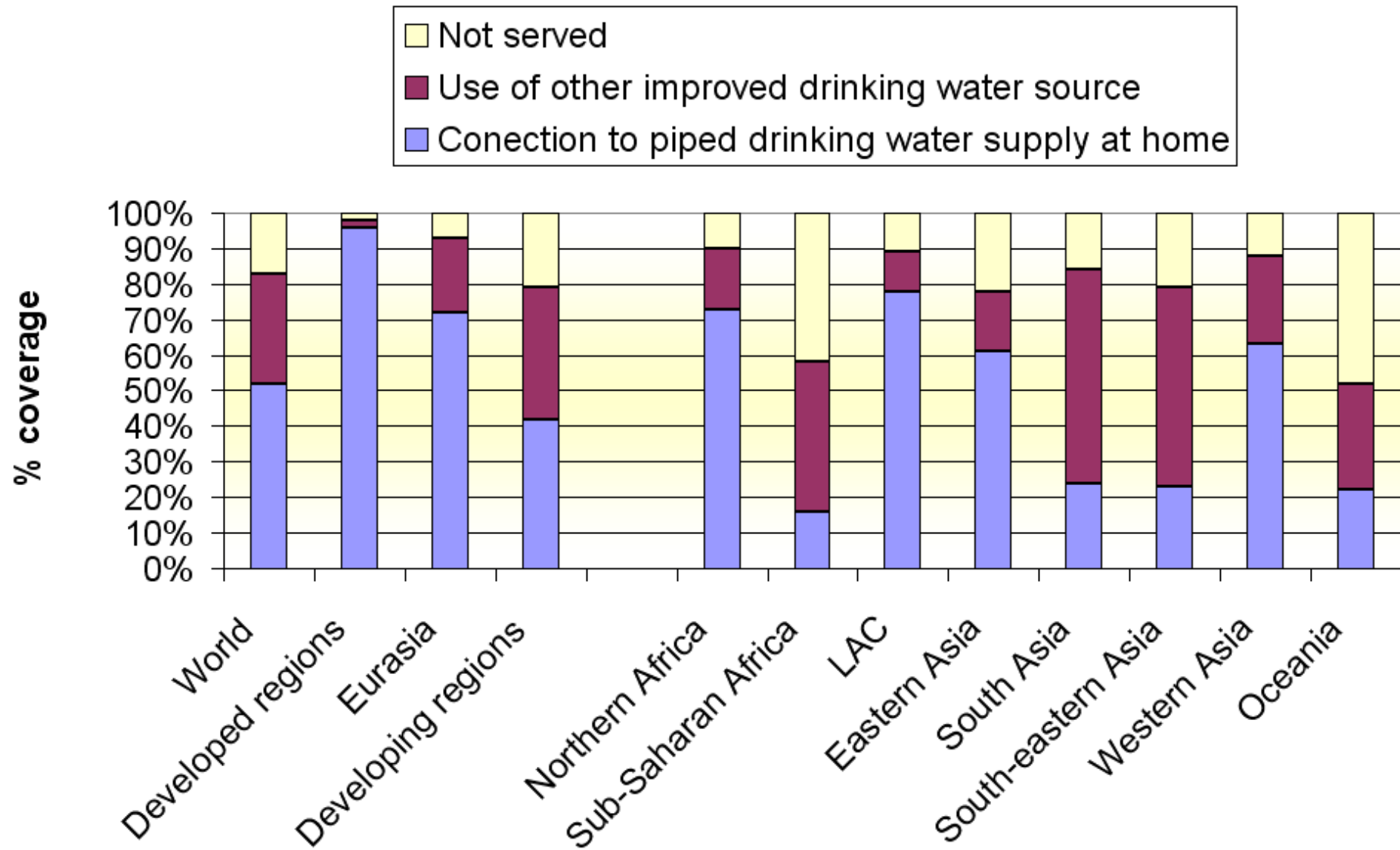
Improved Drinking Water Coverage: Change from 1990 to 2002

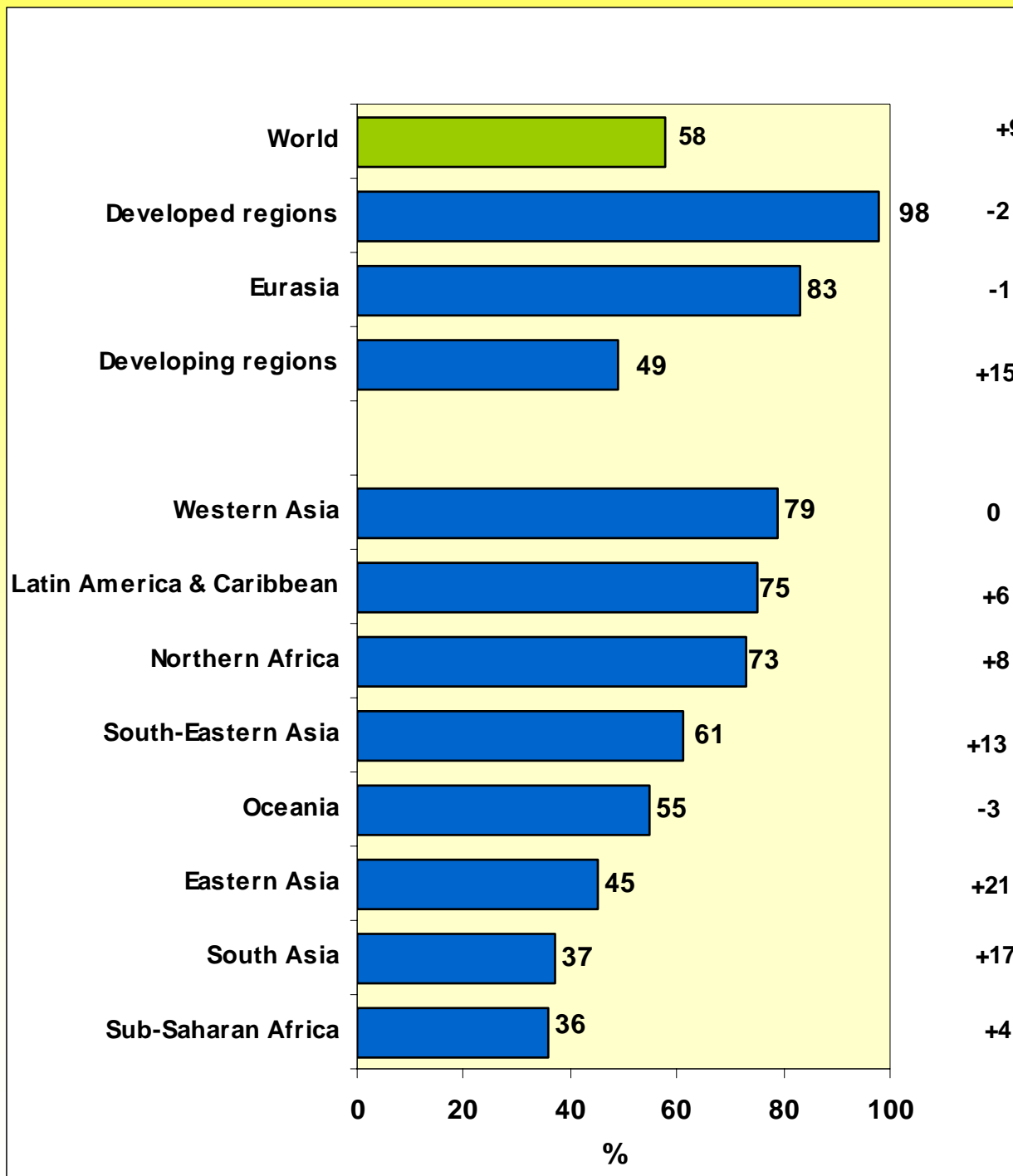


Source: Meeting the MDG Drinking Water and Sanitation Target: Mid-term Assessment of Progress

WHO and UNICEF, 2004

Drinking Water Coverage: *Service Levels*





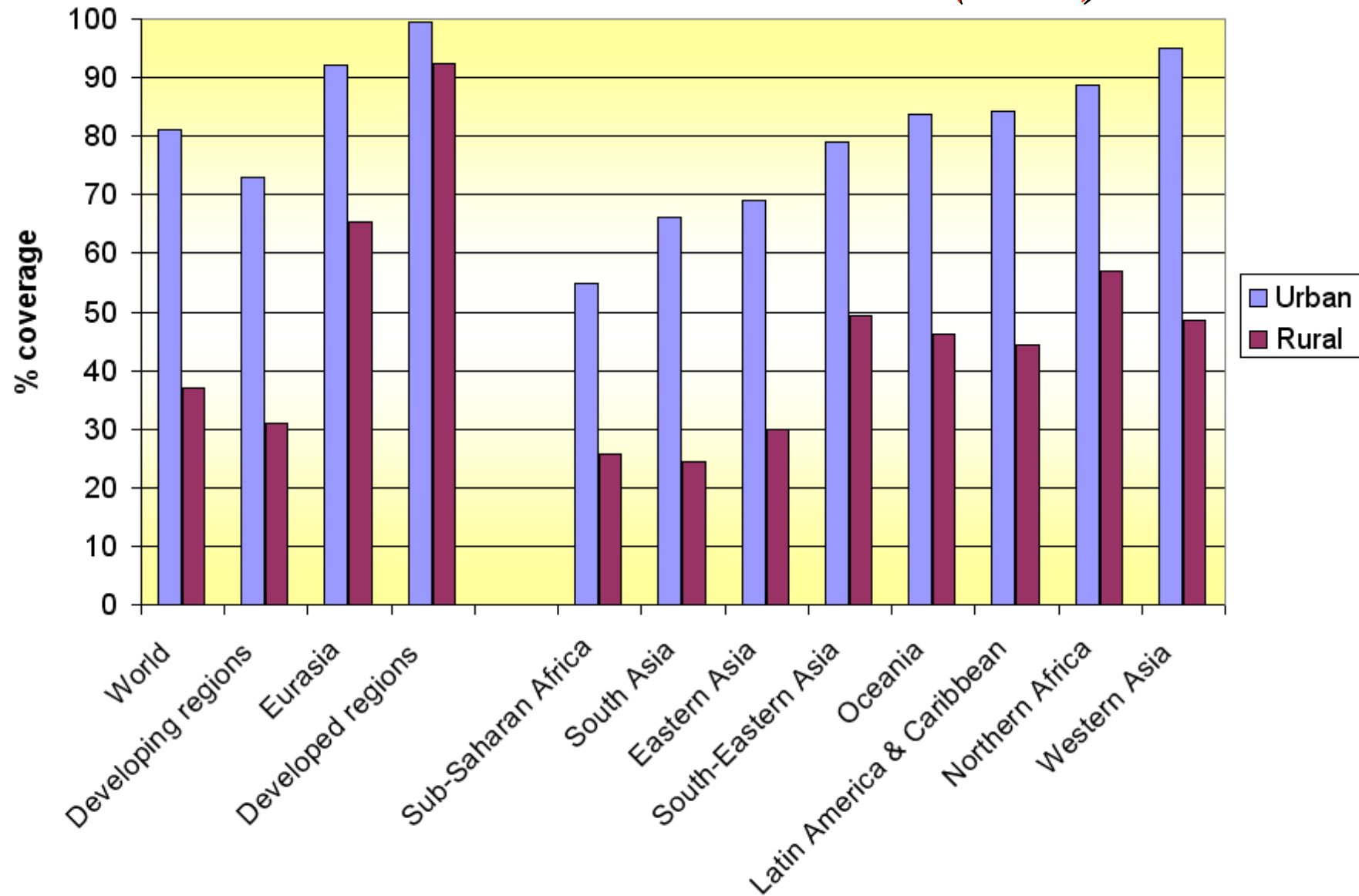
**Sanitation
coverage by
region:**

*Change from
1990 to 2002*

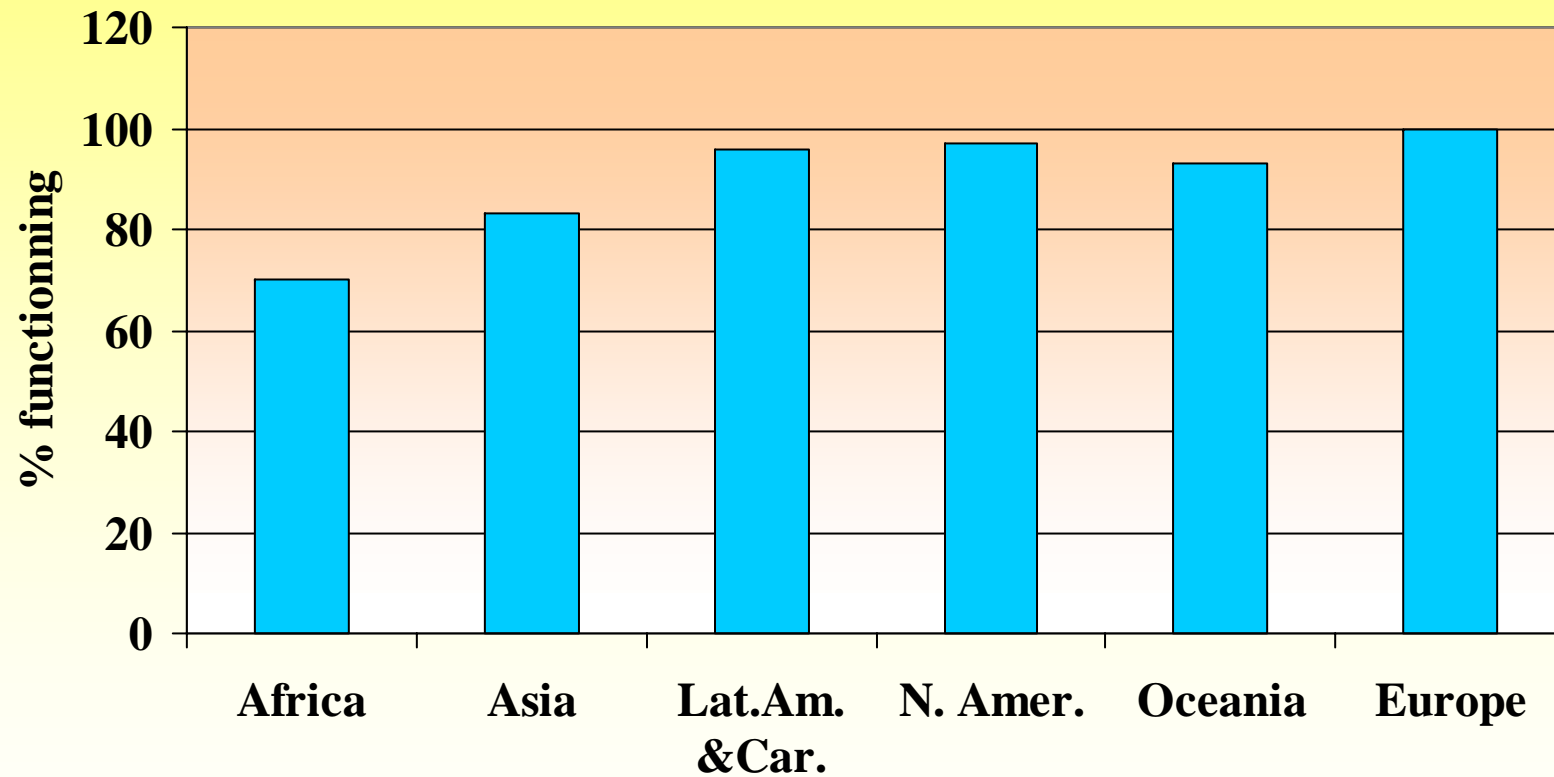
Improved Sanitation Coverage: *Service Levels*



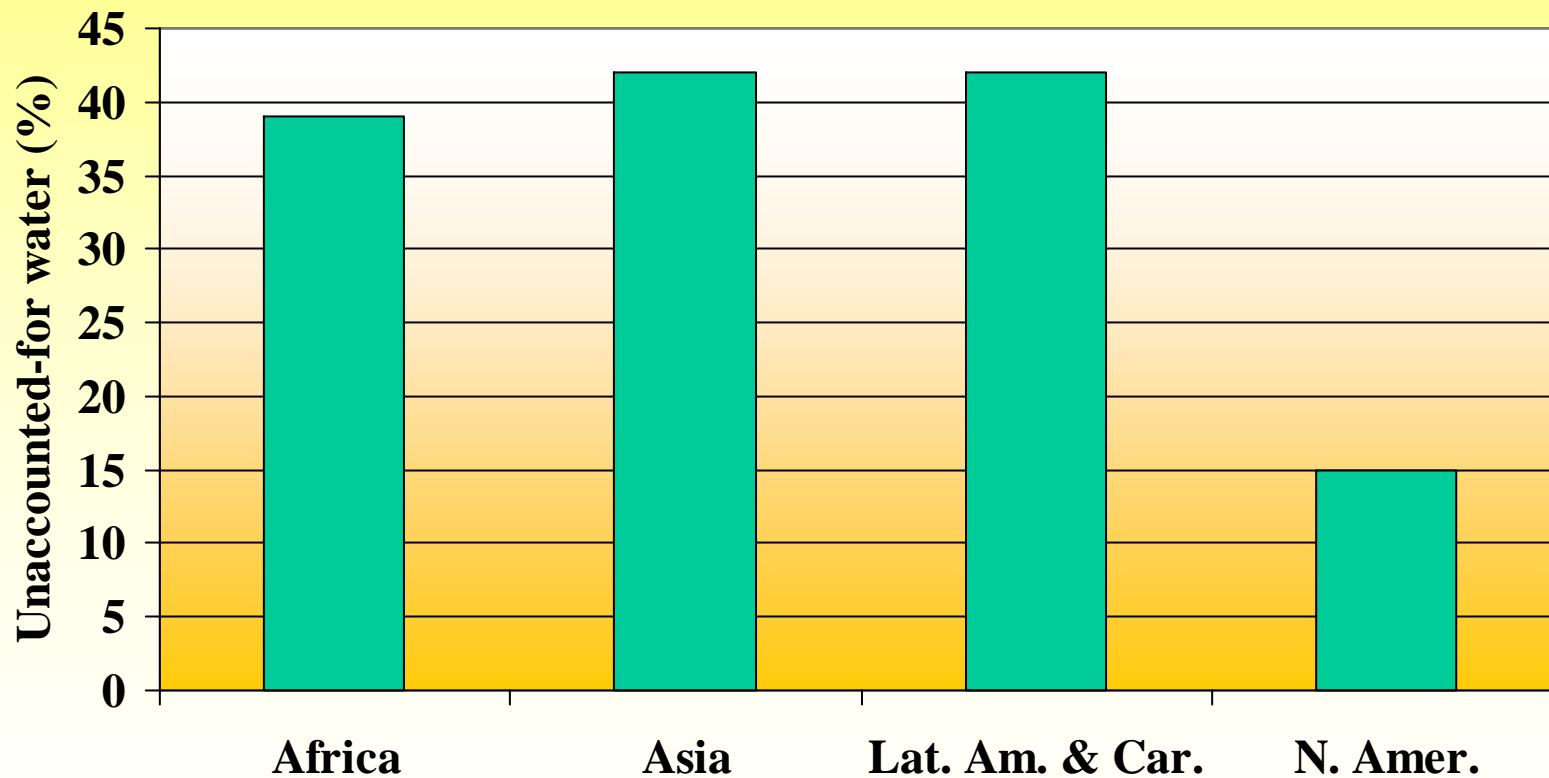
Disparities Masked by National Averages: Urban versus Rural Sanitation (2002)



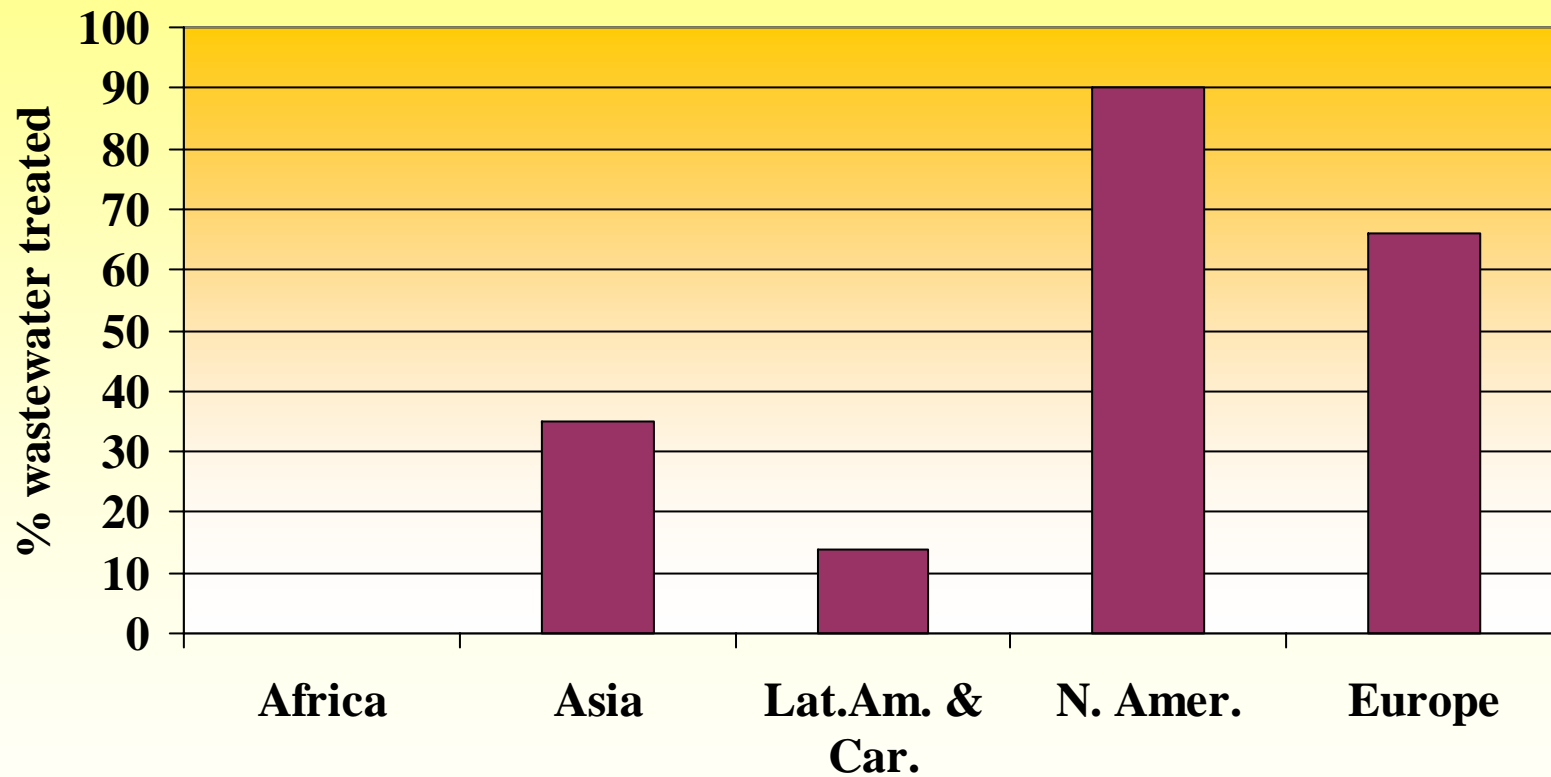
Median percentage of rural water supplies which are functioning, 1990-2000



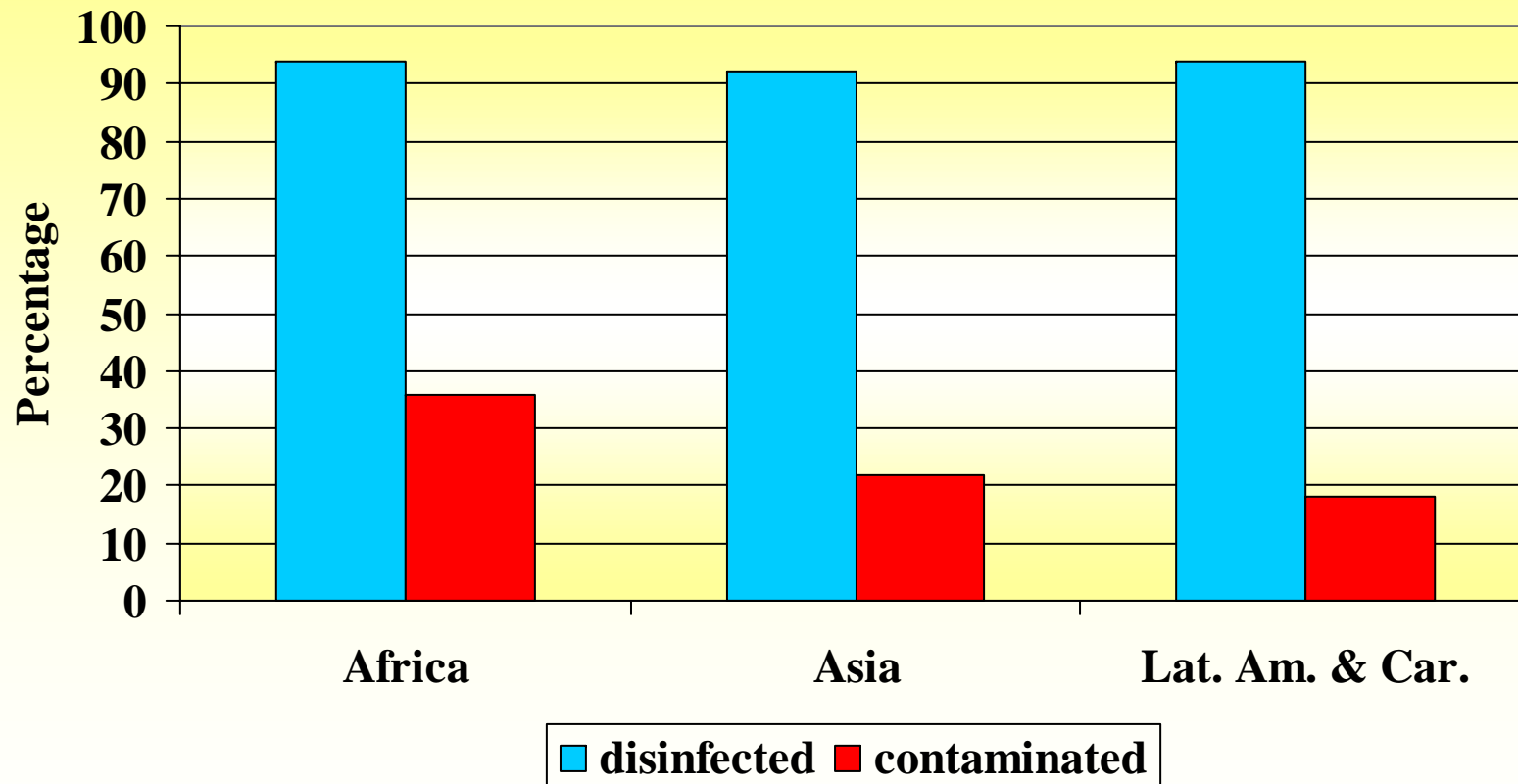
Mean rates of unaccounted-for water in large cities in Africa, Asia, Latin America and the Caribbean, and Northern America



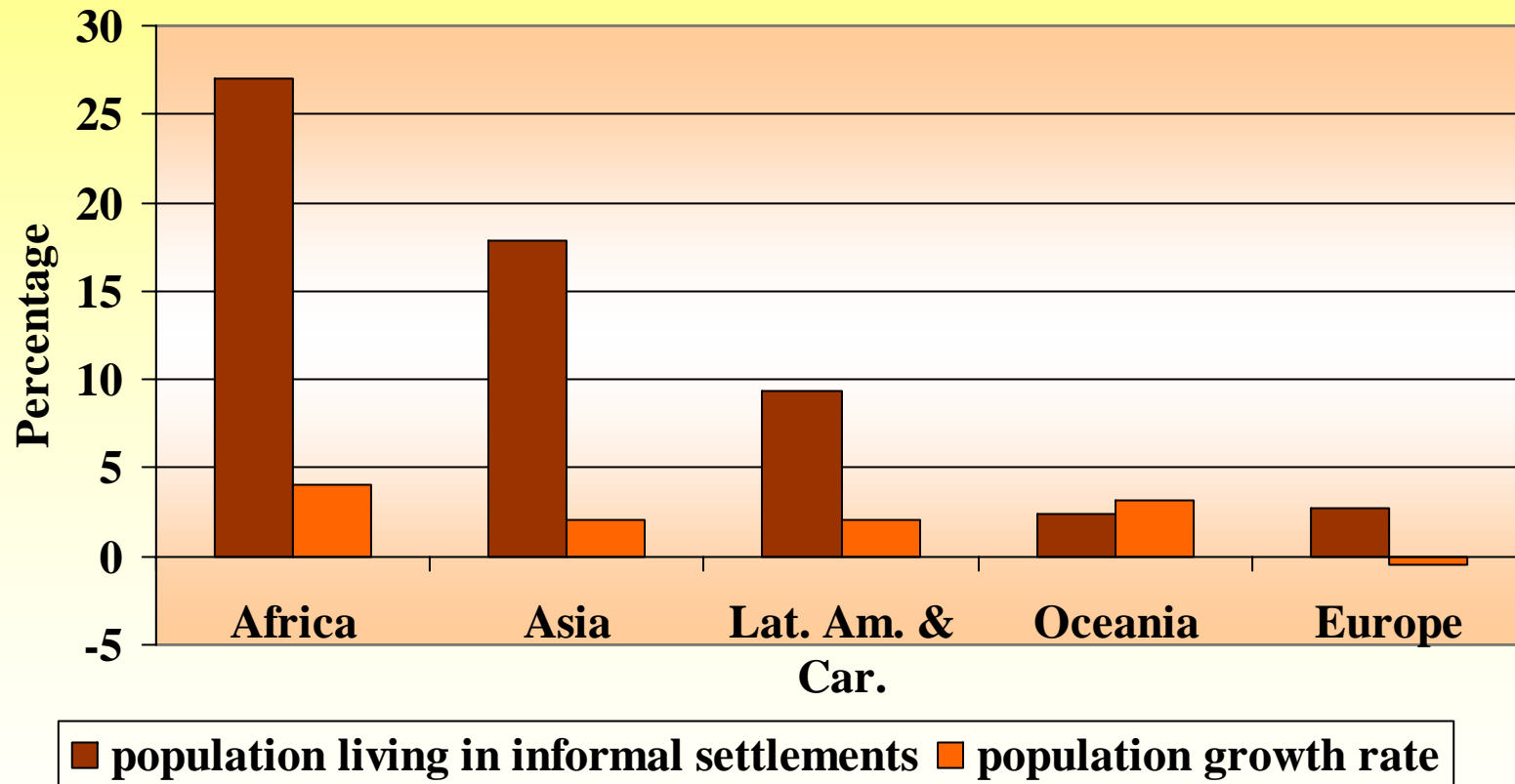
Median percentage of wastewater treated by treatment plants



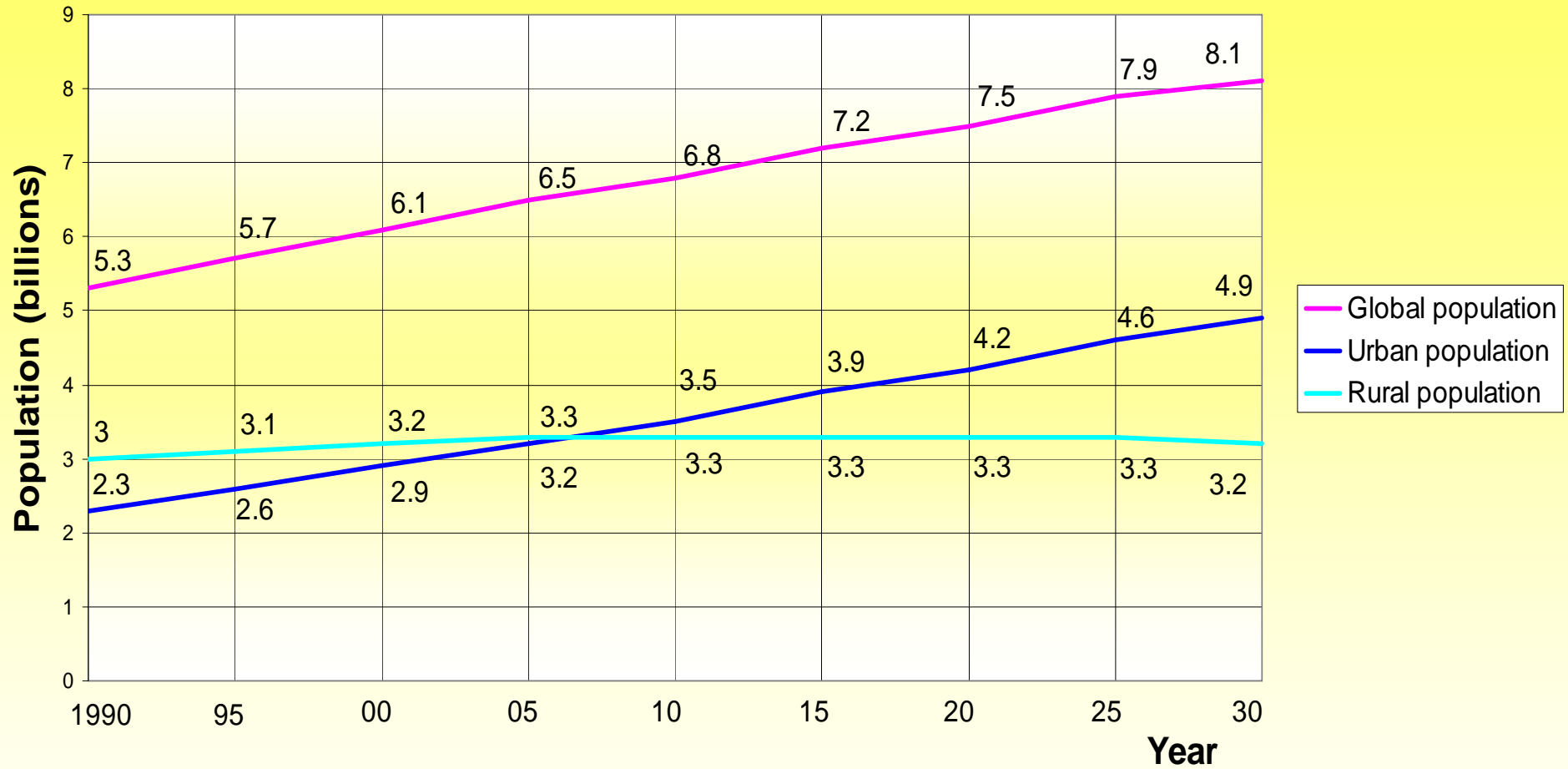
Percentage of water supplied which is effectively disinfected (free residual chlorine over 0.1 mg/l), and percentage of drinking-water quality test results that violate national standards (microbiological, chemical, physical, aesthetic)



Population growth rates and proportions living in informal settlements: Regional means for the largest cities



Population change 1990-2030



Change 1990-2002

Global: 18%

Urban: 31%

Rural: 8%

Change 1990-2015

Global: 37%

Urban: 70%

Rural: 12%

Major challenges facing the sector

Population
growth

Closing the
coverage
gap

Improving
the quality
of services

Ensuring
sustainability

Accelerate
investment

Agenda of this session

1. Opening S. Kunikane
2. Presentations on local actions (Moderator) S. Kunikane
 - 1) PPWSA, Cambodia V. Chea
 - 2) Community water supply in Senegal M. Niang & A. S. Gueye
 - 3) Mexico City Water Supply B. S. Ramirez
3. Presentations on future directions (Moderator) S. Kunikane
 - 1) IWA/NIPH joint activities D. Saywell
 - 2) New solutions for water supply system S. Ando
4. Discussions (Moderator) F. Brikké
5. Closing M. Mizukami