Clean Water

- Improves health
 - hygiene
 - − Vdisease
- Economic benefits
 - Businesses
 - Reduction in burden (women)



Fire prevention

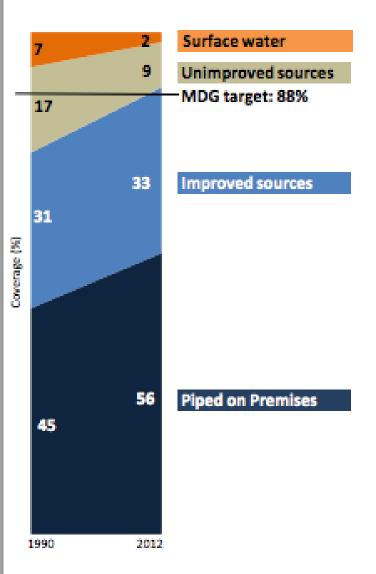


Goal/Assumption

Piped, treated infrastructure water into the dwelling



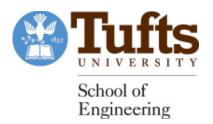
The global MDG drinking water target was met in 2010



Trends in the proportion of the global population using piped drinking water on premises, other improved drinking water sources, unimproved sources and surface water, 1990 -2012

Water MDG goal

- Reduce by ½ those w/o "improved"
- World met goal in 2010
 - 748 million use unimproved sources
- Masks disparities
 - Regional, economic
- Does not account for quality
 - ~>2 billion drink unsafe water
- But, great progress (little "infra")



Future of water infrastructure?

Water infrastructure limits

- Political will / financing
- Intermittent supply/drought
- Geography/terrain
- Emerging contaminants
- Fixed (aging) systems (early 1900's)
- Public faith (bottled water?)

Need for second revolution?

- Dual-systems
- Water reclamation/reuse
- New technologies: desal, R/O, others?
- New ideas: drinking water to house?

Informal settlements are the fastest growing human settlement (~1 billion, 1 in 7)

What to do in these informal water situations?



Today's Clean Water Session

- Focus: infrastructure
 - Appropriate for China, US

- Four speakers
 - Water safety
 - Small systems
 - Emerging contaminants
 - Treatment







