The Sanitation MDG and health; where are we, and how should we move forward?

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Outline of presentation

- What does "the Sanitation MDG" mean?
- Where are we now?
- What do we know about sanitation and public health?
- What are the implications for practice?



What is the "Sanitation MDG?"

- Commitment made at World Summit on Sustainable Development 2001...
- "Halve the fraction of the world's population w/o access to basic sanitation by 2015 from level in 1990"
 - Matched drinking water supply target in wording...BUT
 - Much more ambitious; sanitation access much lower, and sanitation more difficult
 - Target is from 49% to 75% access in 25 years. In next 10 years, we have to go from 3.8 billion → 5.4 billion...half a million additional to be served per day!!
 - On current progress, we'll end up about half a billion behind...



What does it mean?

- A focus on the bottom
 - Not about "upgrading existing sanitation" but about getting basic sanitation to the 2.6 billion (40% of us!!) who don't have it.
- Do we need to halve across the globe or halve in every country?
 - "India, China....forget the rest" vs
 - Countries with lowest access, lowest capacity must increase the most...
- Why? Public health, environment, human dignity
 This talk is focused on public health aspects



Where are we now

	urban		rural		Total	
	access	millions	access	millions	access	millions
1990	79%	1793	26%	782	49%	2587
2004	80%	2505	39%	1271	59%	3770
change	1%	711	13%	488	10%	1183
		28%		38%		31%

- Urban access has increased little by percentage...but a lot in terms of numbers served!
- 1 in 3 who have access to basic sanitation gained it in last 15 years!

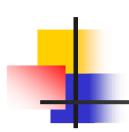


...and the bad news

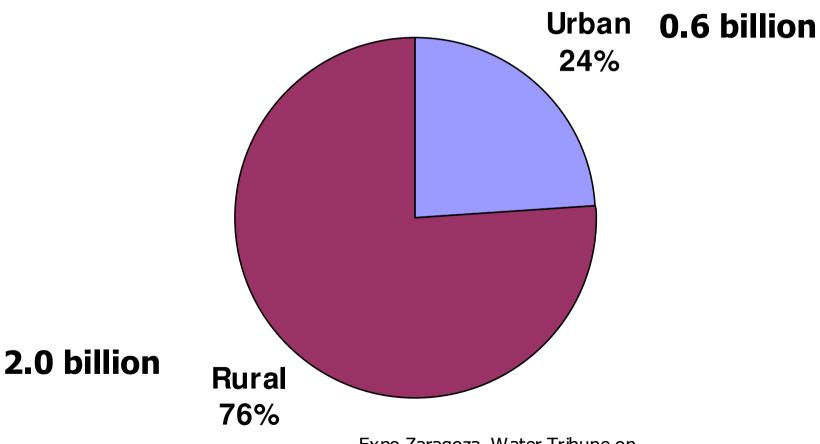
	urban		rural		Total	
	NO access	millions	NO access	millions	NO access	millions
1990	21%	477	74%	2227	51%	2693
2004	20%	626	61%	1988	41%	2620
change	-1%	149	-13%	-239	-10%	-73
		040/		100/		20/

24% -12% -3%

- Number without sanitation, decreased by about 70 million... (within stat error of zero)
- Urban numbers without access increased by 24%
- We're running hard just to stay in place...



Total population without access, rural and urban



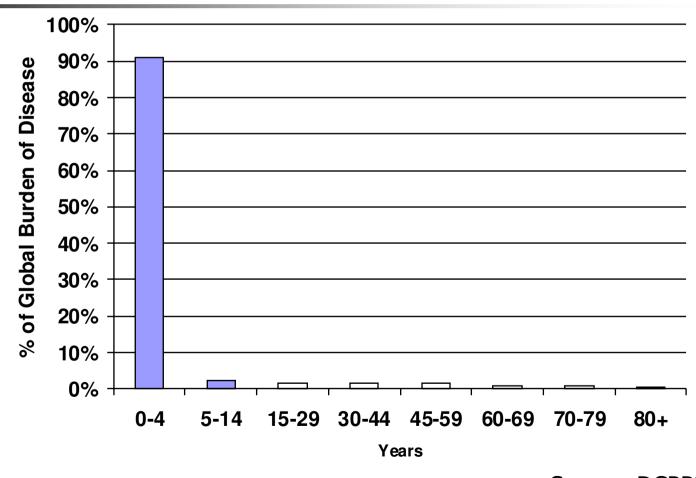


Sanitation-related disease

- Diarrhoeal disease
 - 1.7 million deaths/year from diarrhoea, mostly < 5
 - Jumbo jet crash every hour and a half...
 - One billion cases/year
 - 4.3% of Burden of Disease DALYs
 - About 90% attributable to inadequate Sanitation, Hygiene, and Water Supply
- 1/3 of developing world pop'n carry *intestinal worms*
 - Contributes to malnutrition (as does diarrhea!)
- 200 million infected by schistosomiasis (bilharzia) ...
- Hepatitis type A
- And others...

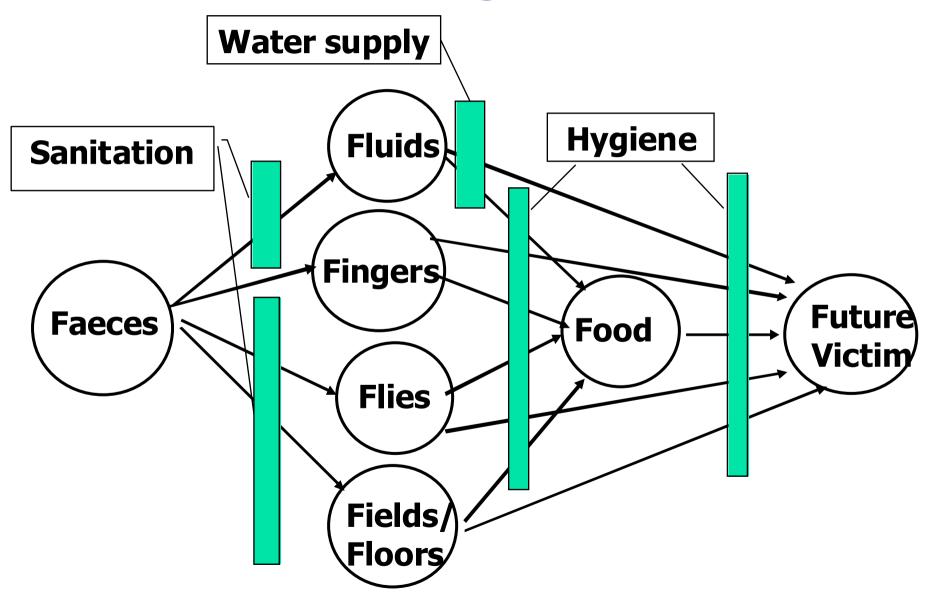


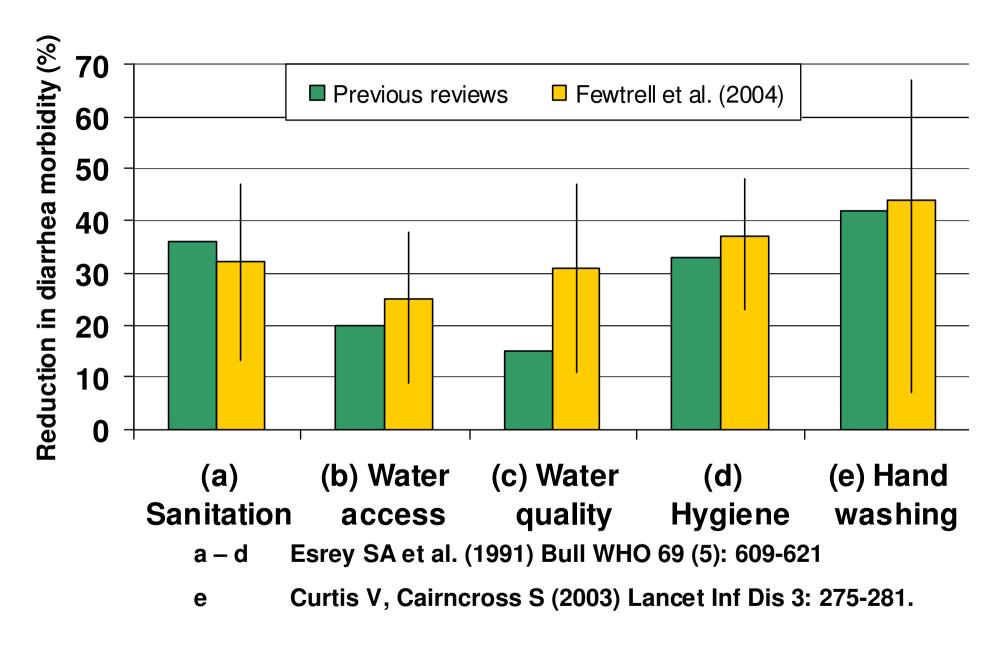
Diarrhea disease burden by age



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The F-Diagramme





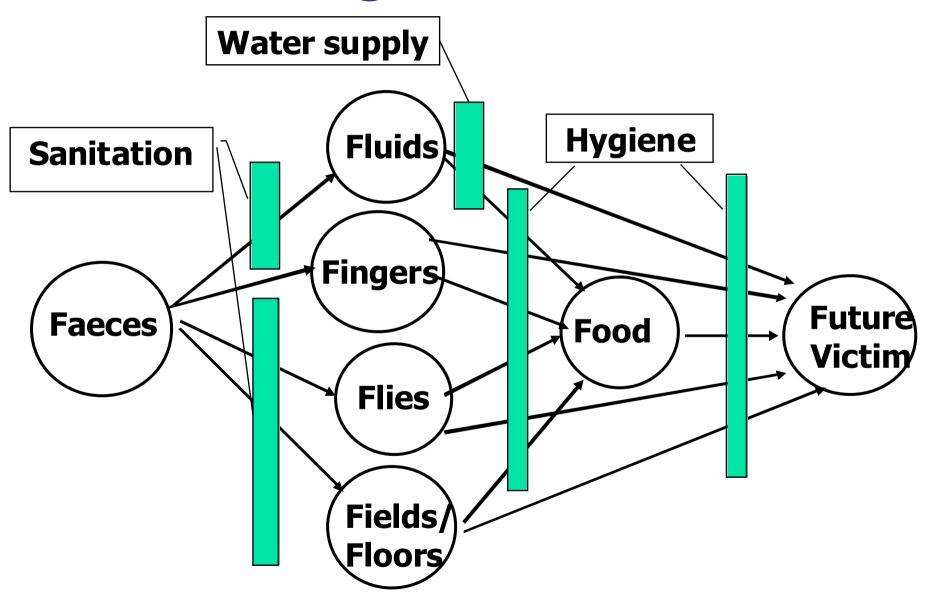
Taken from S. Cairncross presentation "The Health Impact of Sanitation", Aug 2004.



A step back from all of this...

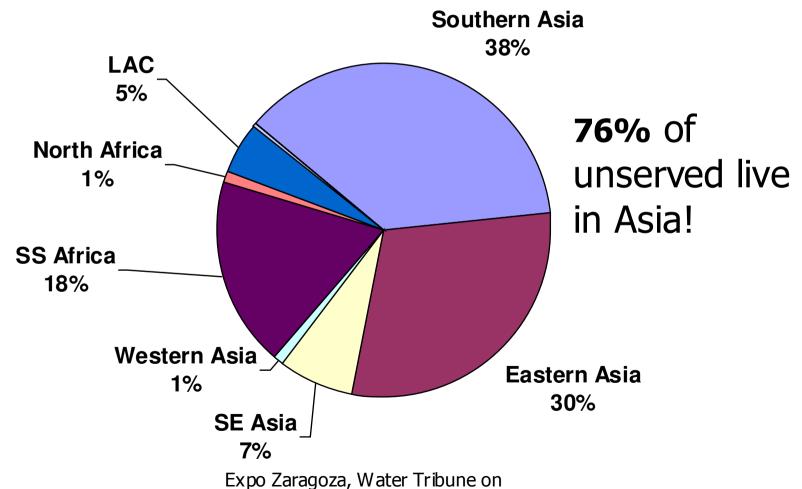
- We don't live in an "average" world...
 - Urban is different from rural...
 - Mountains of Peru are different from slums of East Asia...
 - Risks from reuse higher in Asia than in Africa...
- We all want "ball park" numbers, but we all have to act and think locally, in a specific context!

The F-diagramme revisited



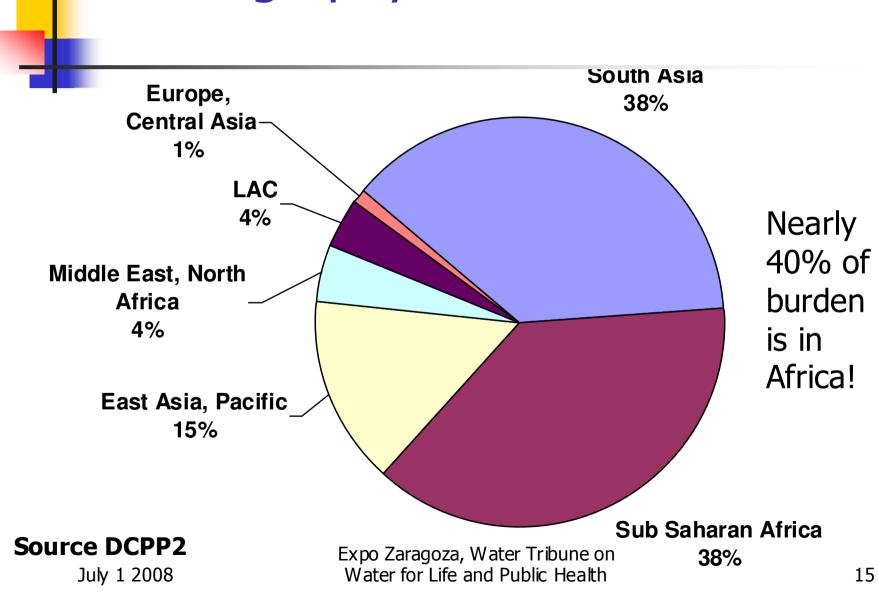


Geography of the unserved



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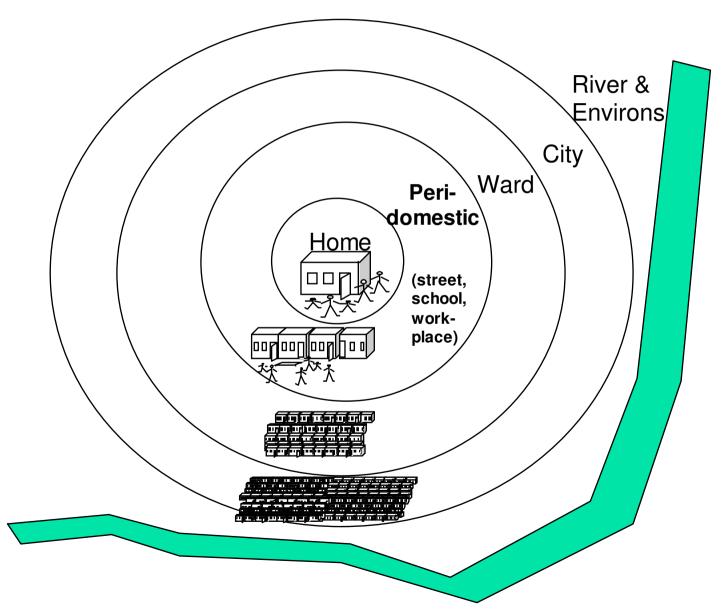
Geography of disease burden



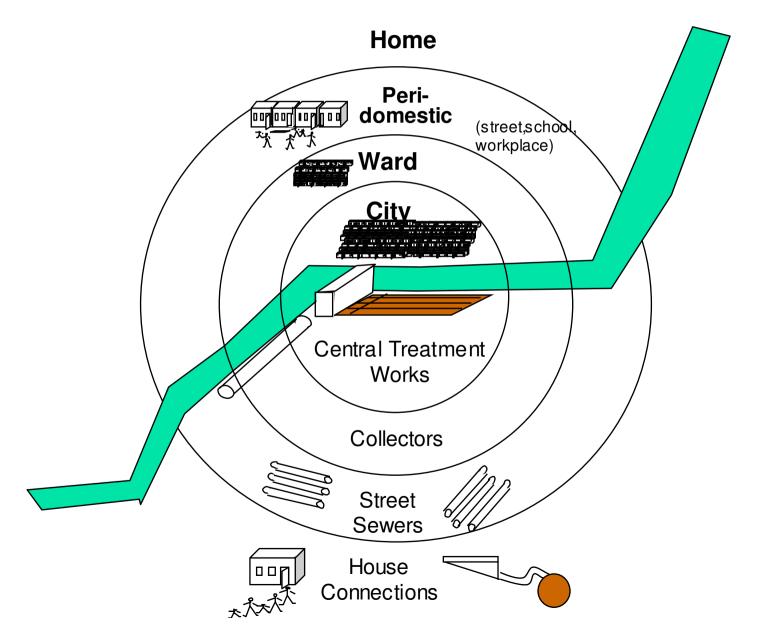
What does this mean for practice?

- 1. "India and China...forget the rest" does not make sense if health is the base of the sanitation MDG...Africa is a "health smart" priority!
- Having a latrine does not reduce disease... using it does! Hardware helps, but behaviour change is crucial!!!
- 3. The focus on basic access makes sense... there are diminishing returns on health in improving hardware
- **4.** The focus on sanitation makes sense...it's crap out of place that makes people sick!
- 5. Focus on the home where most under 5 transmission is likely to happen...rethink urban sanitation strategies

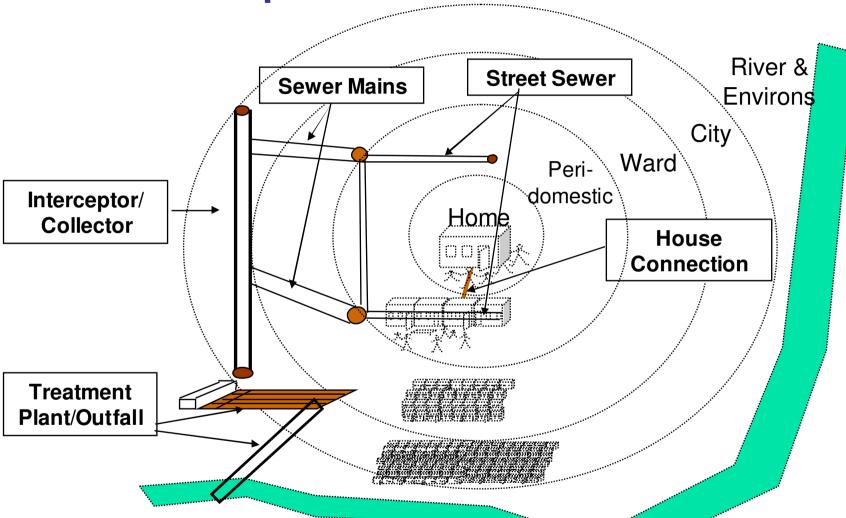
How people see their city



An environmental view



A public health view



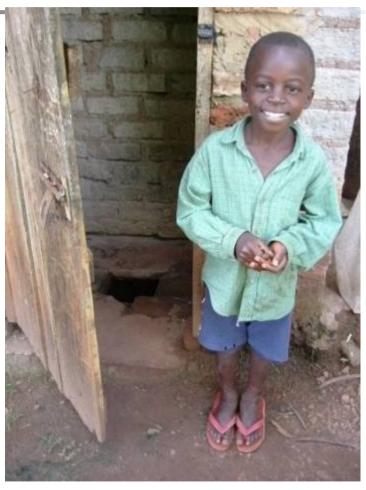


The moral of this final tale...

- For public health purposes, urban onsite sanitation used by many is worth more than ideally treated sewage produced by few...
- Access counts more than wastewater treatment for public health
- And World Bank-funded projects in Africa, Asia and Latin America increasingly reflect these lessons!



Thanks for your attention!



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