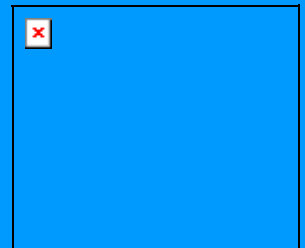


Water, Sanitation and Hygiene

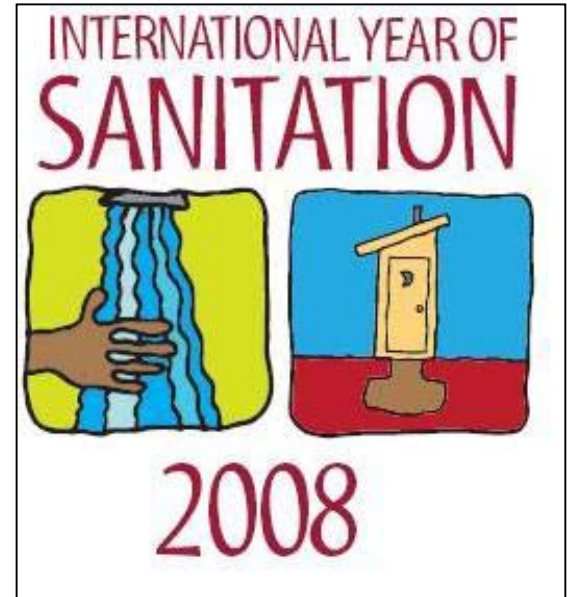


Lizette Burgers, Chief of Child Environment Programme
Kumar Alok, Sanitation Specialist



Sanitation is.....

1. **Sanitation is vital**
2. **Sanitation is a good economic investment**
3. **Sanitation leads to social development**
4. **Sanitation helps the environment**
5. **Sanitation is achievable!**



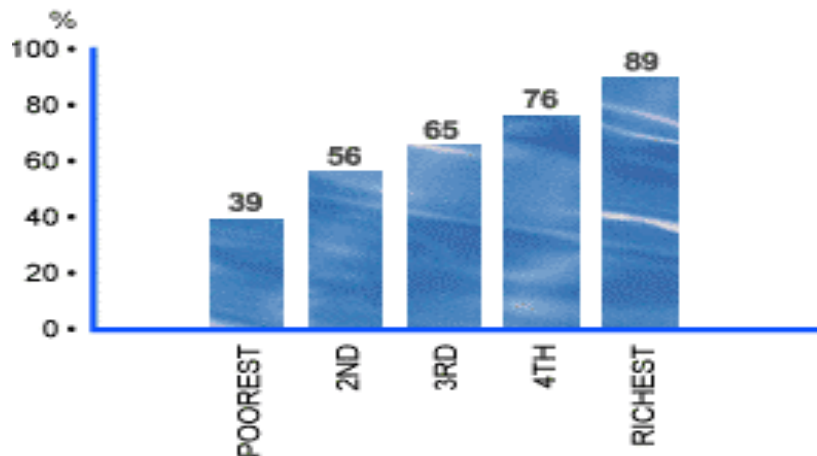
Excreta is harmful

- One gram of excreta can contain:
 - 1,00,00,000 viruses**
 - 10,00,000 bacteria**
 - 1,000 parasite cysts**
 - 100 parasite eggs**

Water, Sanitation and Poverty

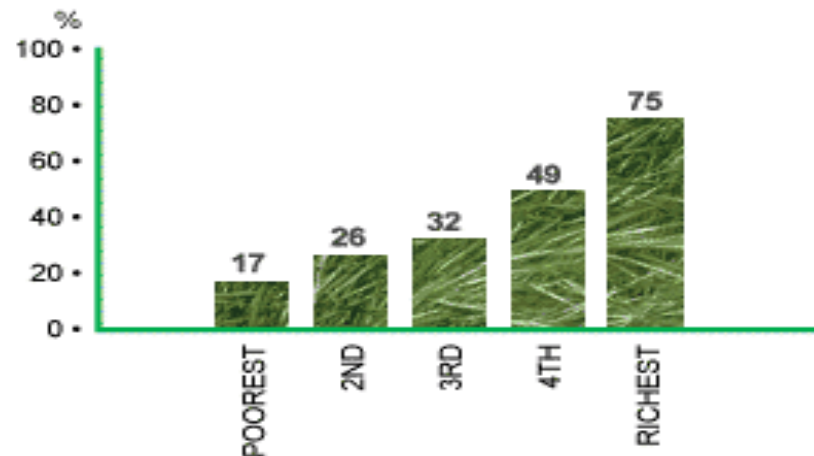
Richest are twice as likely to use drinking water from an improved source than the poorest

Improved drinking water coverage by wealth quintiles



Richest are four times more likely to use improved sanitation than the poorest

Improved sanitation coverage by wealth quintiles



‘Sanitation vital for poverty reduction’

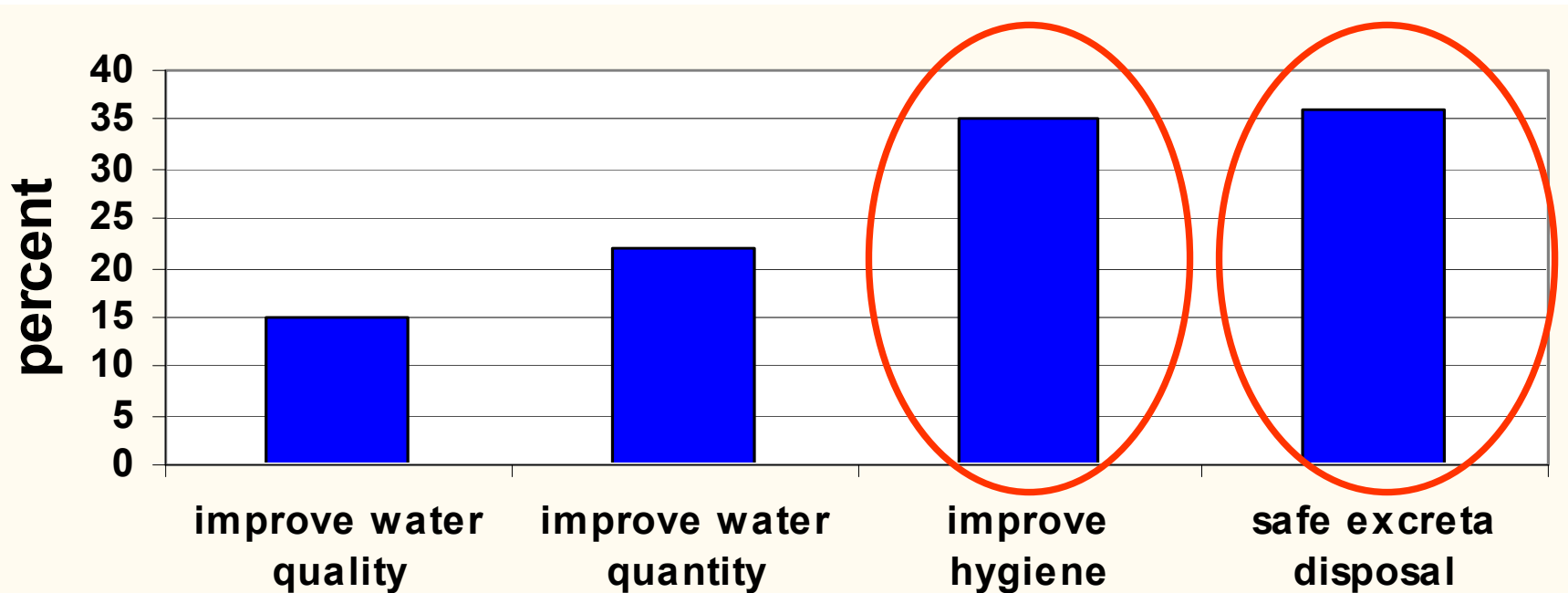
- **US\$1 invested in water and sanitation would give an economic return of between US\$3 and US\$34, depending on the region (WHO)**

Sanitation Crisis

- **Daily 1000 child deaths alone under five from diarrhoea**
- **Every second child is malnourished**
- **High Infant Mortality 57 per 1000 live birth**
- **One out of five persons without toilet lives in India: 500million**
- **55% still defecate in open, 74% in rural areas and 17% in urban areas (NFHS-III, 2005-2006)**
- **Urban slums most disadvantaged in accessing safe sanitation facilities**
- **35 % of schools still do not have access to sanitation facilities**
- **Women harassment/dignity, high drop out rate among girls**
- **About 115 million MT unmanaged waste annually: global warming**
- **Rs 1200 crore income loss, 180 million loss of man days**

Results of research from 144 studies show the following

% reduction in diarrhoea by intervention



Esrey, 1994

Sanitation "greatest medical milestone since 1840"

-British Medical Journal poll, voted by 11,341 readers, Jan. 2007

Wisdom and Vision of our Leaders

“The rich manure, valued at lakhs of rupees, runs to waste every day, for all the air and brings disease into bargain”

-Mahatma Gandhi

“The day every one of us gets a toilet to use, I shall know that India has reached the pinnacle of progress”

-Jawaharlal Nehru

Economic growth vs. social development

Significant Economic Progress

9% economic growth

Foreign exchange reserves exceeding US \$ 300 billion

Global IT industry/ BPO/Retail/'NANO'

Growing global player

Donor to other developing countries

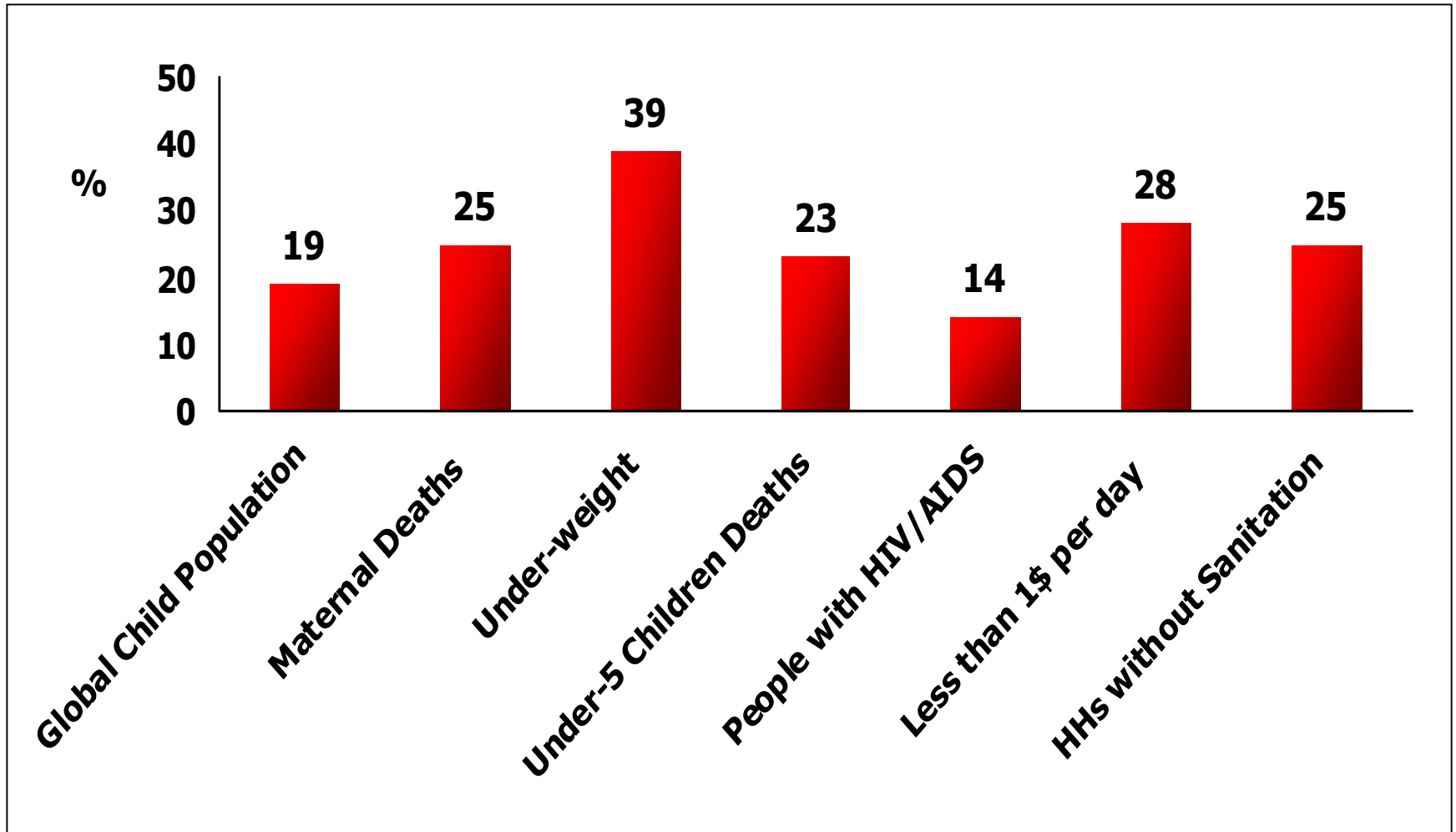
Champion of democracy

Free Media

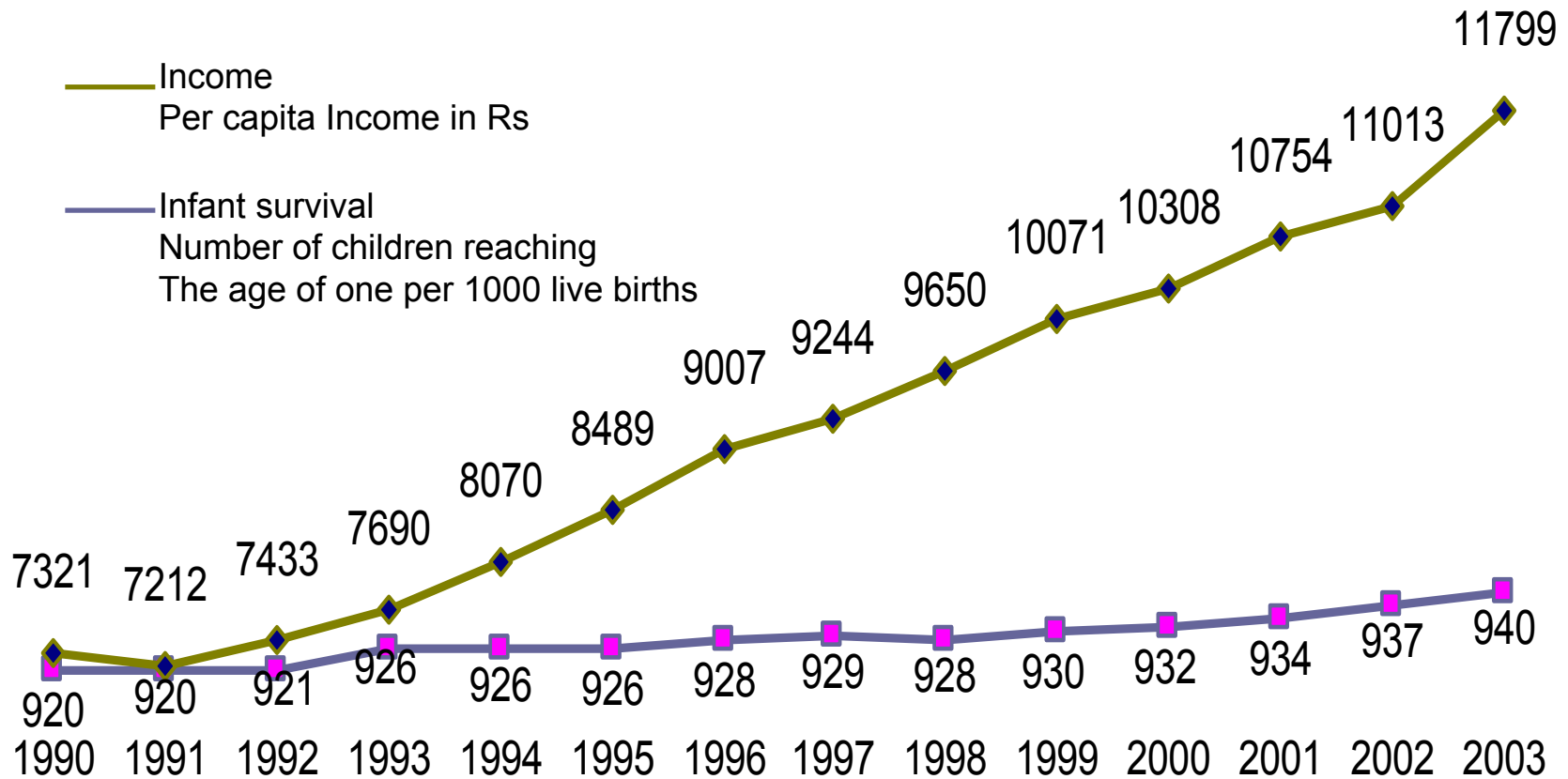
Foreign company acquisition by Indian Corporate

Aspiring to project as super-power,
progressive and developed nation

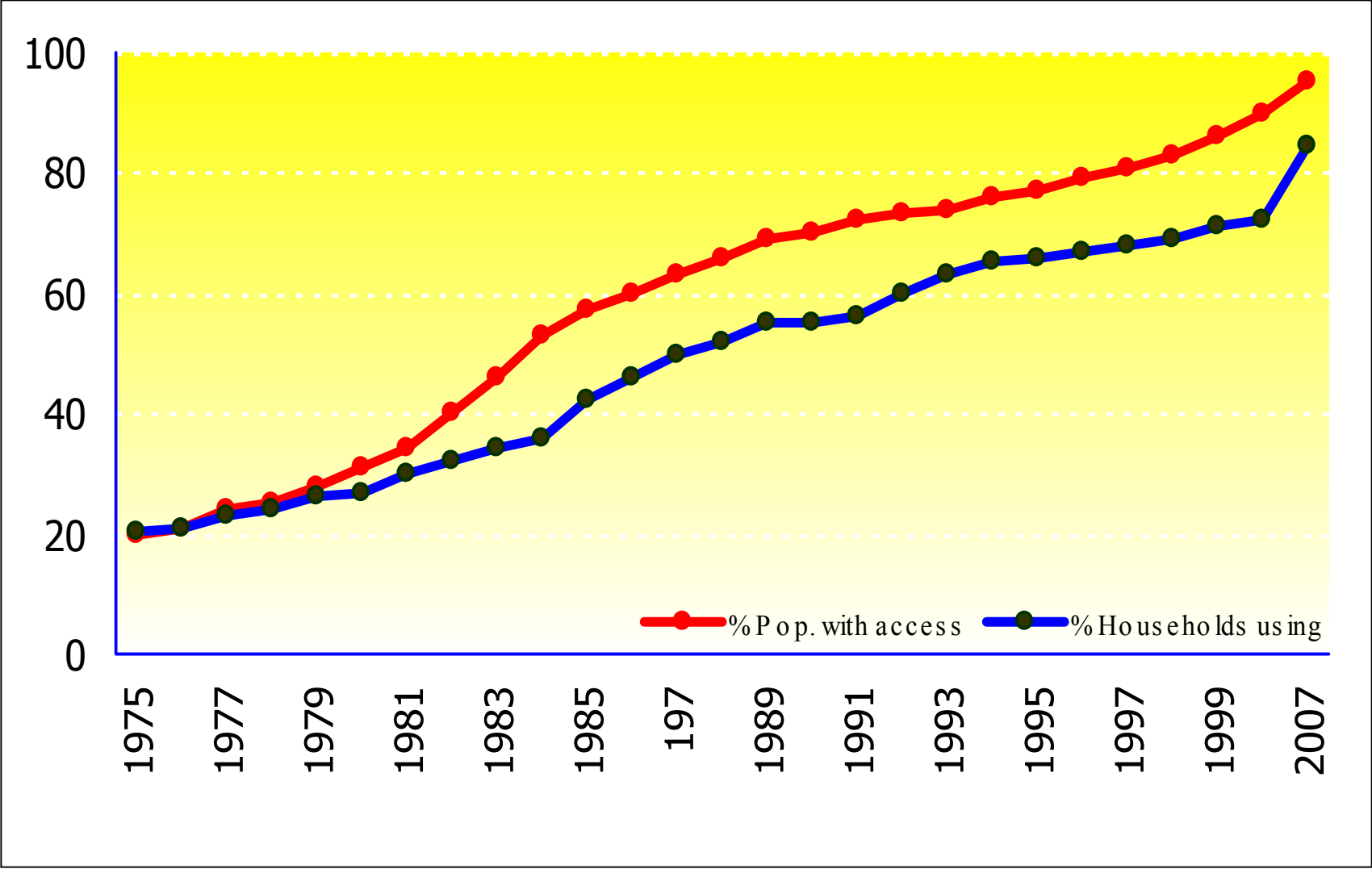
India's share of global challenge...



Two India's: Economic progress and gap in social indicator



Progress in Rural Water Supply

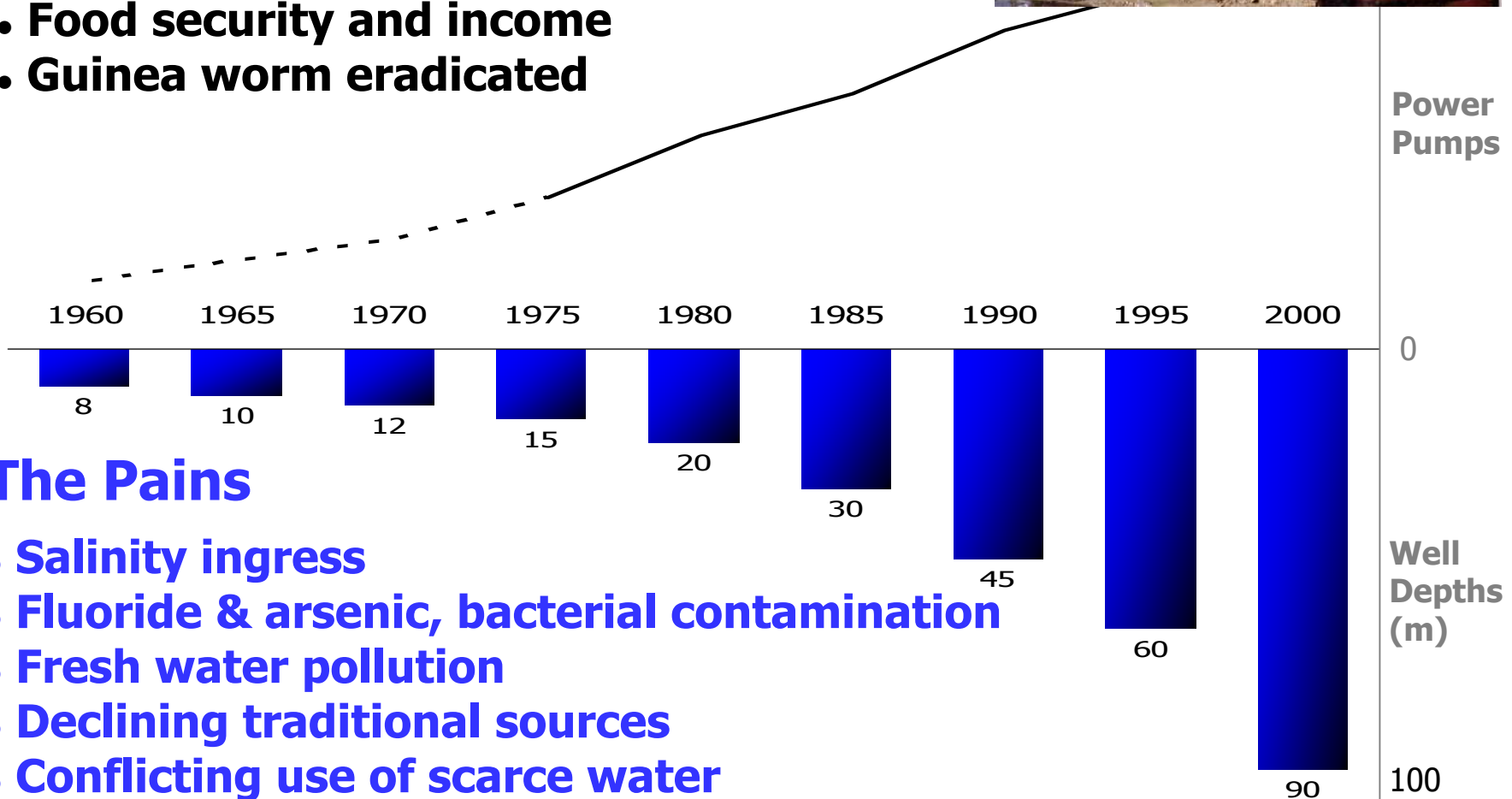


The Gains & Pains...



The Gains

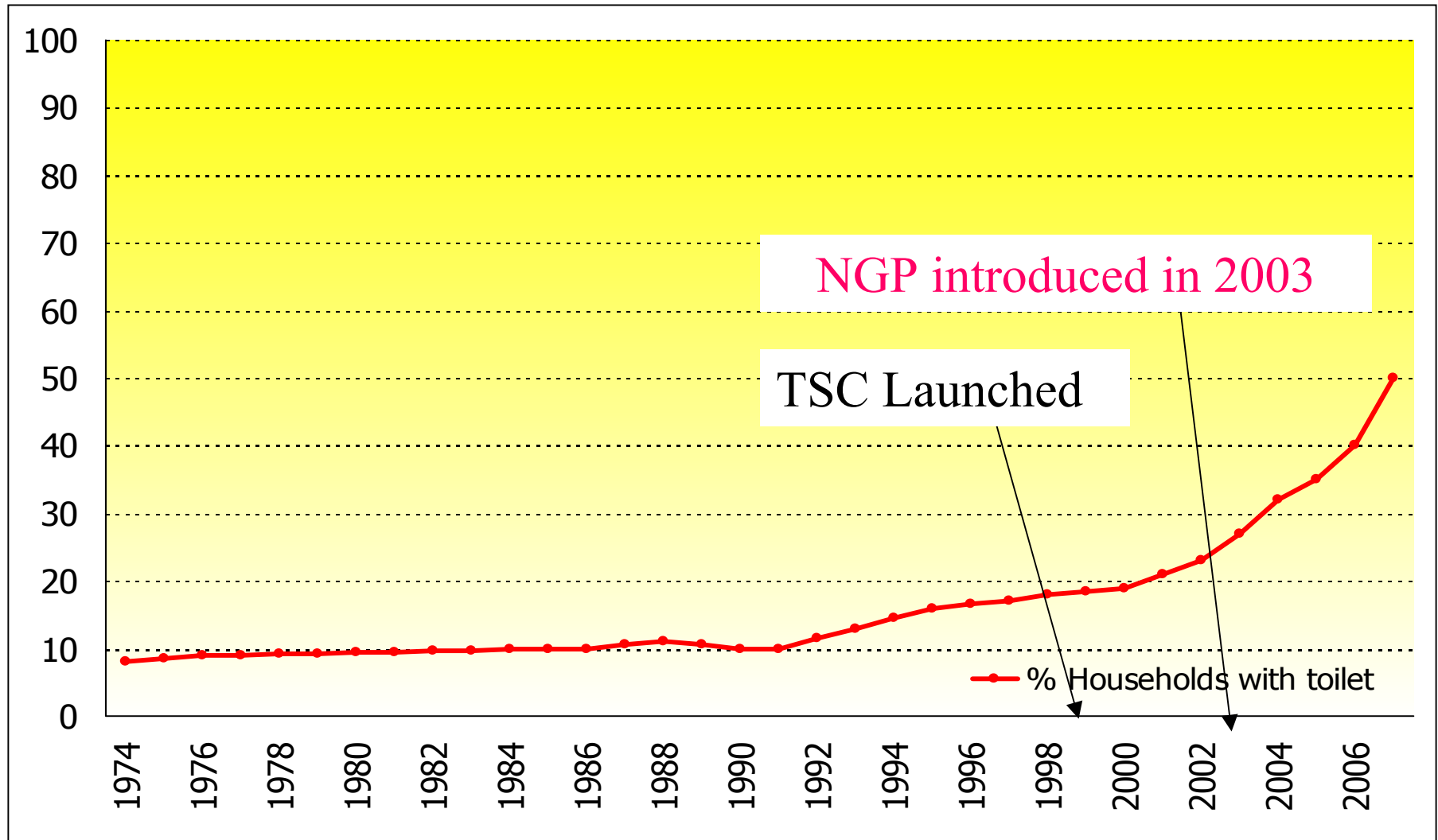
- Protected water supply for 750 million
- Food security and income
- Guinea worm eradicated



The Pains

- Salinity ingress
- Fluoride & arsenic, bacterial contamination
- Fresh water pollution
- Declining traditional sources
- Conflicting use of scarce water

Stagnated to Accelerated Rural Sanitation



Total Sanitation Approach

- Decentralization (PRIs)
- Community participation
- Capacity development
- Social mobilization for demand generation
- Focus on women and children as change agents
- Availability of affordable toilet options



**शौचालय बनवायेंगे,
सफाई को अपनायेंगे**

प्रगति विकास मंत्रालय, भारत सरकार

सामुदाय से हाथ धोया क्या?

गलत तरीकों से होने वाली बीमारियाँ

जली पार देना, खाना, खरब

बीमारियों से बचें, सही तरीके अपनाएं

जल को पीना, जल को साफ़ करके पीना, जल को साफ़ करके पीना, जल को साफ़ करके पीना

प्रगति विकास मंत्रालय, भारत सरकार

Total Sanitation Components

Total Sanitation Campaign implemented in 584 districts to achieve 100% sanitation coverage

- Household Sanitation

- Above poverty line (awareness generation)
- Below poverty line (Incentive/Subsidy)

- School Sanitation & Hygiene Education

- Separate toilet facilities for girls and boys
- Hygiene Education, school cabinet

- Anganwadi Sanitation

- Baby friendly toilets

- Community Sanitation

- Community toilet complex

- Supply Chain

- Rural Sanitary Mart
- Production Centers



Nirmal Gram Puruskar (NGP) Innovative Clean Village Award

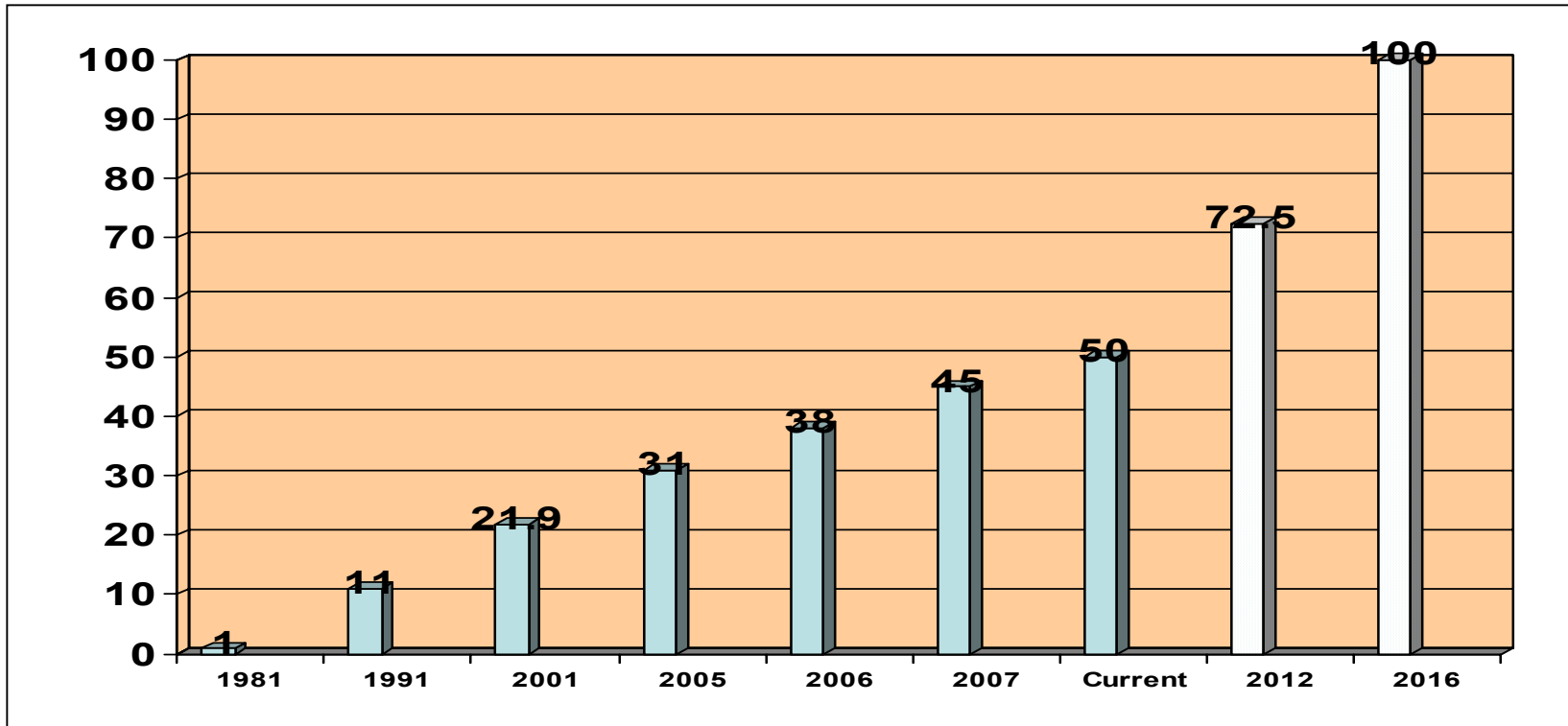
- Award for PRIs (GP, PS, ZP),
Individuals, Organizations

Eligibility

- Full coverage at household,
School and Anganwadi level
 - Free from Open Defecation
 - Clean environment
maintenance
- Operational for the last three
years

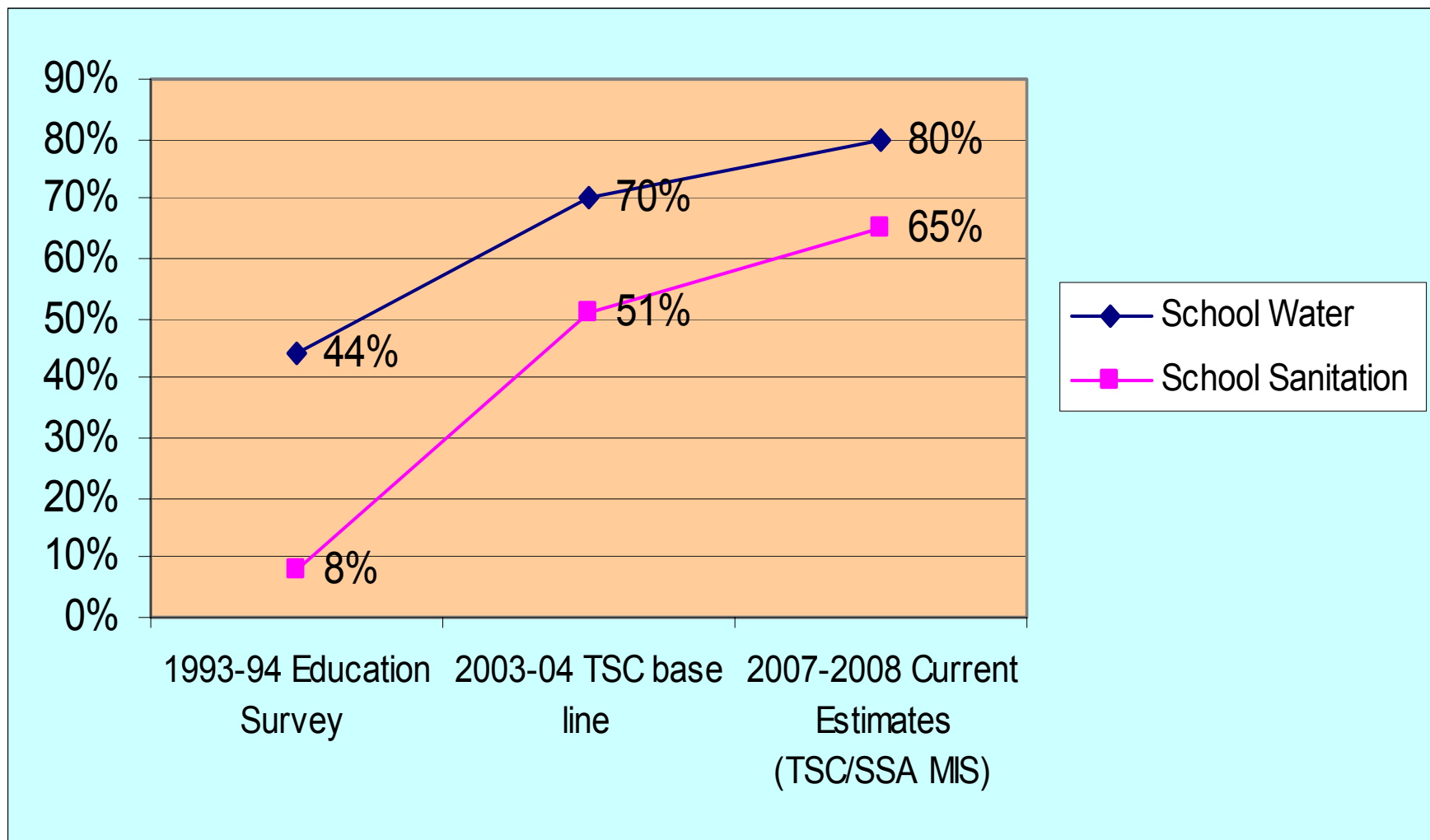


Sanitation is achievable!



- **Good progress in the last few years**
- **Fund commitment up to 13,000 crore**
- **584 districts are covered under TSC**
- **NGP- PRIs 5700**
- **30,000 applications this year**
- **Three States Andhra, TN, and WB already achieved MDG**

School Water Supply and Sanitation



Way Forward

Next Generation Sanitation Initiatives

- **Solid and Liquid Waste Management**
- **Methane farming for energy use**
- **Waste plastic as fuel**
- **Urine Farming**



Travel and Tourism Industry

- **Inadequate sanitation infrastructure at tourist places as well as highways**
 - **Poor hygiene practices in food outlets**
 - **Example-Thailand model, STEP in Kerala, Haveli-Punjab**
- **Petrol Pumps**
 - **No uniform standards for facilities**
 - **Not gender friendly, no separate unit**
 - **No or inadequate maintenance**
 - **Design not suited to condition/culture**



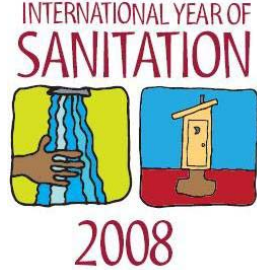
Sanitation and rights of the children

- **Sanitation is essential to reduce child mortality and morbidity**
- **No children should get involved in scavenging and cleaning jobs:**
 - **Railway station and trains**
 - **Bus stands**
 - **Garbage collection in cities**
 - **Dhaba / restaurants / Canteens**

Challenges are still there.....

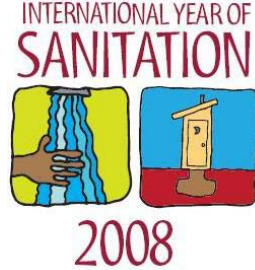
- **Still a taboo and Stigma – (like HIV/AIDS in the 1980s)**
- **Low priority, not as glamorous as other sectors**
- **Behavioural barriers – benefits not widely understood**
- **Scale of the problem is daunting (55% open defecation)**
- **Urban and rural issues**
- **Rich/poor disparities**
- **Issues of sustainability, quality facilities and hygiene promotion**
- **sanitation and waste management as revenue and employment generating opportunities**
- **Addressing issues of global warming and earning carbon credits**

International Year of Sanitation: a great opportunity



- **Organise a special joint session of parliament/ State Assembly on sanitation and hygiene**
- **Active support for preventing open defecation in respective constituencies, states.**
- **Public pledge by all elected representatives including PRIs and public servants to ensure toilets at home**
- **Advocate for well maintained, sanitation and hygiene facilities in schools/ public places; gender/disabled friendly toilets**

International Year of Sanitation a great opportunity



- **Promotion of hygiene (especially hand washing) and cleanliness**
- **Advocate for more/continued support to TSC and NGP at national, state, and district level**
- **Create mechanism for strong monitoring of programme, proper fund and speedy utilization**

**Refresh our commitment towards Govt's goal—
'Open defecation free nation by 2012'**

If water is life.....



SANITATION..... A WAY OF LIFE

Thank You