



## 3rd Asian Sanitation Dialogue

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# Cities are growing at an unprecedented pace



**Half of humanity** lives in cities

**In 20 years, 60%** of the world's people will be urban dwellers

**1 billion people in Asia** added to Asian cities from 1980-2010

Another **1.1 billion** are expected by 2040

# Access to water and sanitation is a priority

## MDG Target 7.C:

“Halve, by 2015, the proportion of the population without sustainable access to safe drinking water & basic sanitation”



**2 billion people** gained access to improved drinking water sources

**But 2.5 billion** still lack access to improved sanitation facilities

**Over 1 billion** practice open defecation

# In Asia, more people have access to water... But sanitation is lagging behind

**About 90% of the population** in Asia and the Pacific use piped water (44%) or other improved water sources (46%) as their source of drinking water

In **Eastern Asia** Sanitation coverage **increased from 27% to 67% between 1990 and 2011**

In **Southern Asia**, proportion of population using shared or unimproved facilities has **declined to 18%** but **39% still defecate in the open**

Pace of sanitation improvements **has not kept up with population growth**

## Tremendous social and economic costs

**\$9.2 billion USD**  
economic costs of poor sanitation  
and hygiene in **East Asia**

**\$53.8 billion USD**  
amount lost each year to  
economic impacts of  
inadequate sanitation in  
**India**

**Asian region needs \$71 billion in investments for improved sanitation and \$59 billion in investments for water supply**

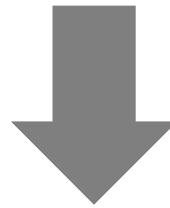
# Cities are trapped in a vicious cycle of low investment & weak performance

Political priorities lead governments to favor other sectors

Inadequate information hampers policy-making and planning

Lack of transparency

Bureaucracy, excessive red tape and silos



- Low investment
- Poor performance
- Limited willingness to pay

# Water resources are threatened by pollution and over-consumption

Preservation of natural resources goes hand in hand with poverty reduction, and Asian cities' ability to grow sustainably

Only 15–20% of wastewater in Asia receives some level of treatment before discharged into water resources

Asian cities should go beyond an economic growth model based on excessive resource consumption towards a circular economy

Asian cities  
need to  
minimize

Inputs of energy

Polluted outputs

Water & materials



# A new approach to water and sanitation is required





# Increasing access to reliable water and sanitation services



- A**dapting our services
- C**apitalizing on the assets in place
- C**reating innovative solutions
- E**valuating & anticipating the impact of our work
- S**takeholder engagement
- S**trengthening capacities



**Creating economic value in a way that also creates value for society & the environment**



# Example – Customer services innovations



## STAKEHOLDER PARTNERSHIPS

- Collaboration with local NGOs, schools, citizens to raise awareness on water & sanitation
- Ex: Water Friends in India, Voisin Malin in France



## MEDIATION

- Door-to-door customer services
- Stakeholder engagement & dialogue
- Ex: Social Welfare Team in India (Nagpur)



## FINANCIAL SUPPORT

- Financial help
- Pro-poor connections
- Ex: Saqaiti program in Morocco; measures to reduce and write off debts in Guayaquil, Ecuador

# Turning wastewater into resources



## WASTEWATER RECYCLING

- 100 wastewater recycling projects in the world
- 171 million m<sup>3</sup> recycled for irrigation, manufacturing and household needs

## ENERGY RECOVERY

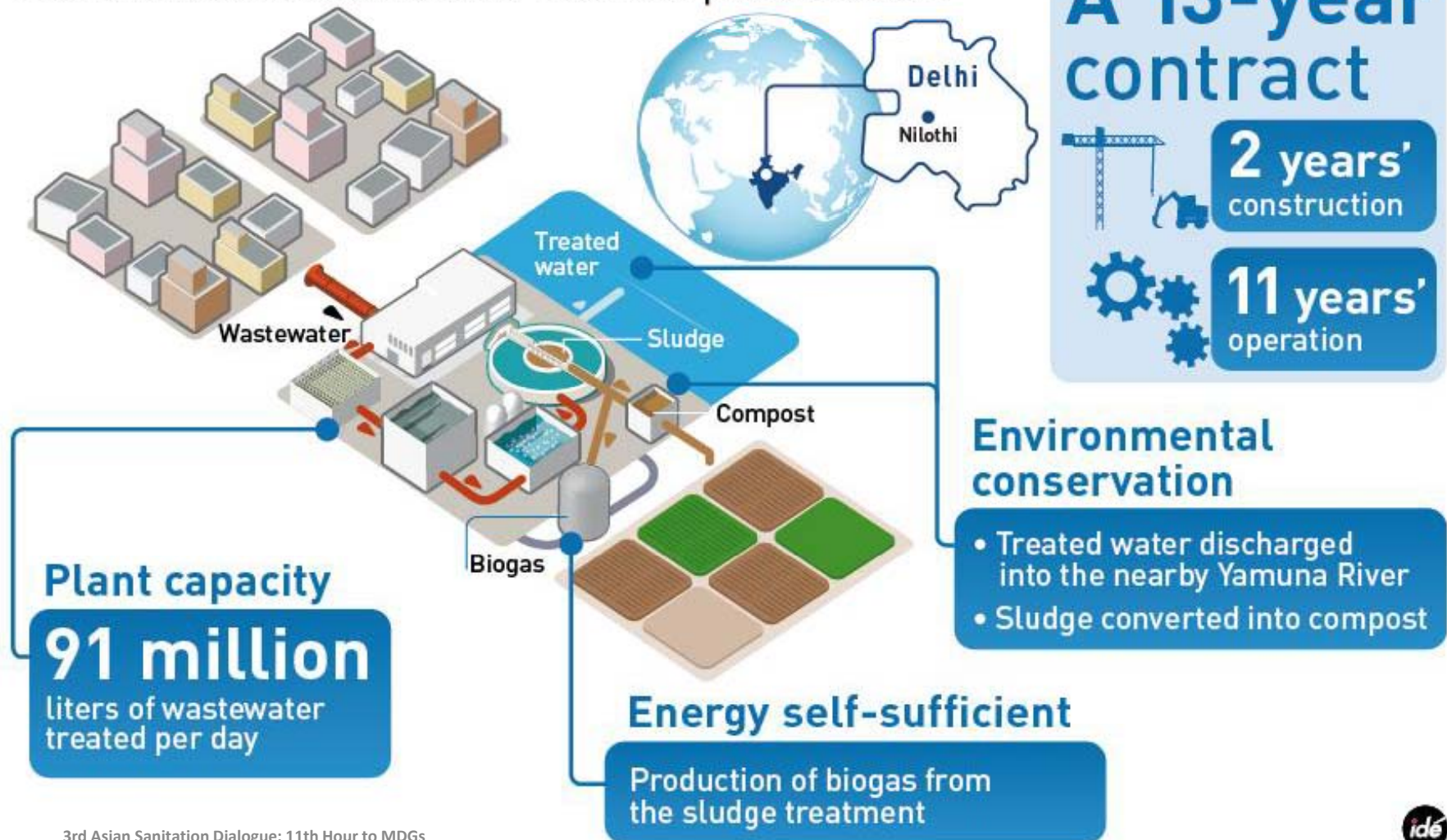
- Biogas in anaerobic digestion
- Cogeneration units
- Sludge energy recovery
- Micro-turbines in drinking water network
- Heat recovery

## MATERIAL RECOVERY

- Organic matter into fertilizer
- Sludge into bio-plastics
- Recovery of grit from pipe cleaning

# Example – Veolia’s Nilothi wastewater treatment plant (India)

The New Delhi municipality has awarded Veolia Water the construction of a wastewater treatment plant in Nilothi.



# Implementing new contractual models

## Peer Performance Solutions

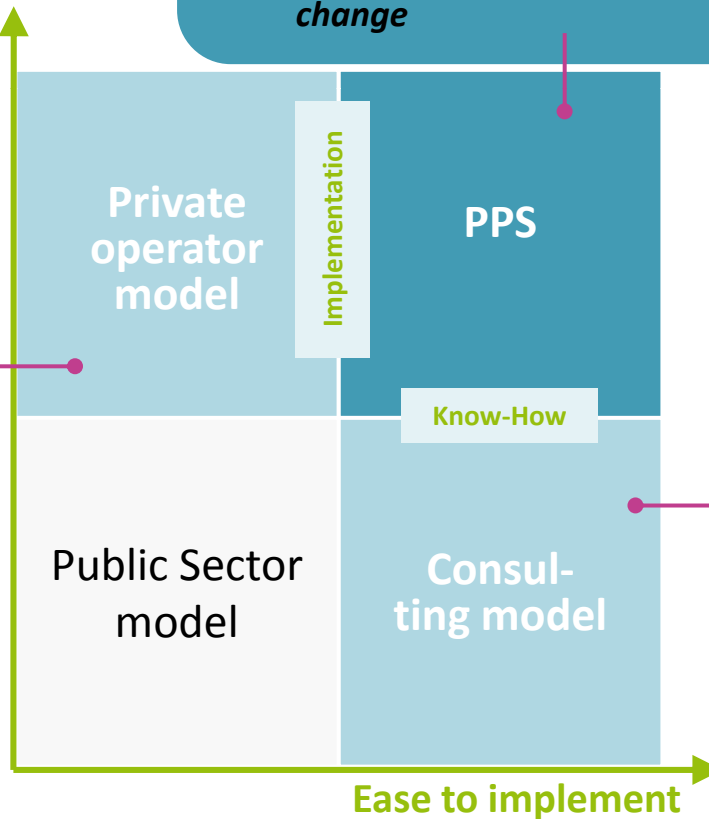
- Flexible term contracts (short to long term will work)
- No outsourcing of assets / management / employees
- Joint implementation with shared benefits
- **Client in control of assets/staff; Veolia drives performance & change**

Accountability of service provision

### Traditional Veolia model (O&M, concessions)

- Long-term contracts
- Assets and / or employees managed by Veolia

**Veolia in control with full accountability**



### Technical or business consulting projects

- Short-term contracts, usually without implementation support
- No outsourcing of assets / management / employees

# Way forward

## New contractual models

- Explore innovative tariff systems and financial models
- Promote balanced risk sharing
- Harness new source of revenue (ex: wastewater by-products)

## Leadership

- Ensure strong political commitment & leadership
- Break silos
- Focus on capacity building

## Cross-sectoral collaborations

- Beyond prejudices
- Promote stakeholder collaboration and multi-stakeholder dialogues

## Water management

- Integrated planning & approach for urban services
- Focus on demand management
- Switch from a resource consumption rationale to a use-and-recover approach