

République du Sénégal  
Ministère de l'Hydraulique et de l'Assainissement  
**Office National de l'Assainissement du Sénégal**



# **Market Structuring of Fecal Sludge Management for the Benefit of Poor Households in Dakar**

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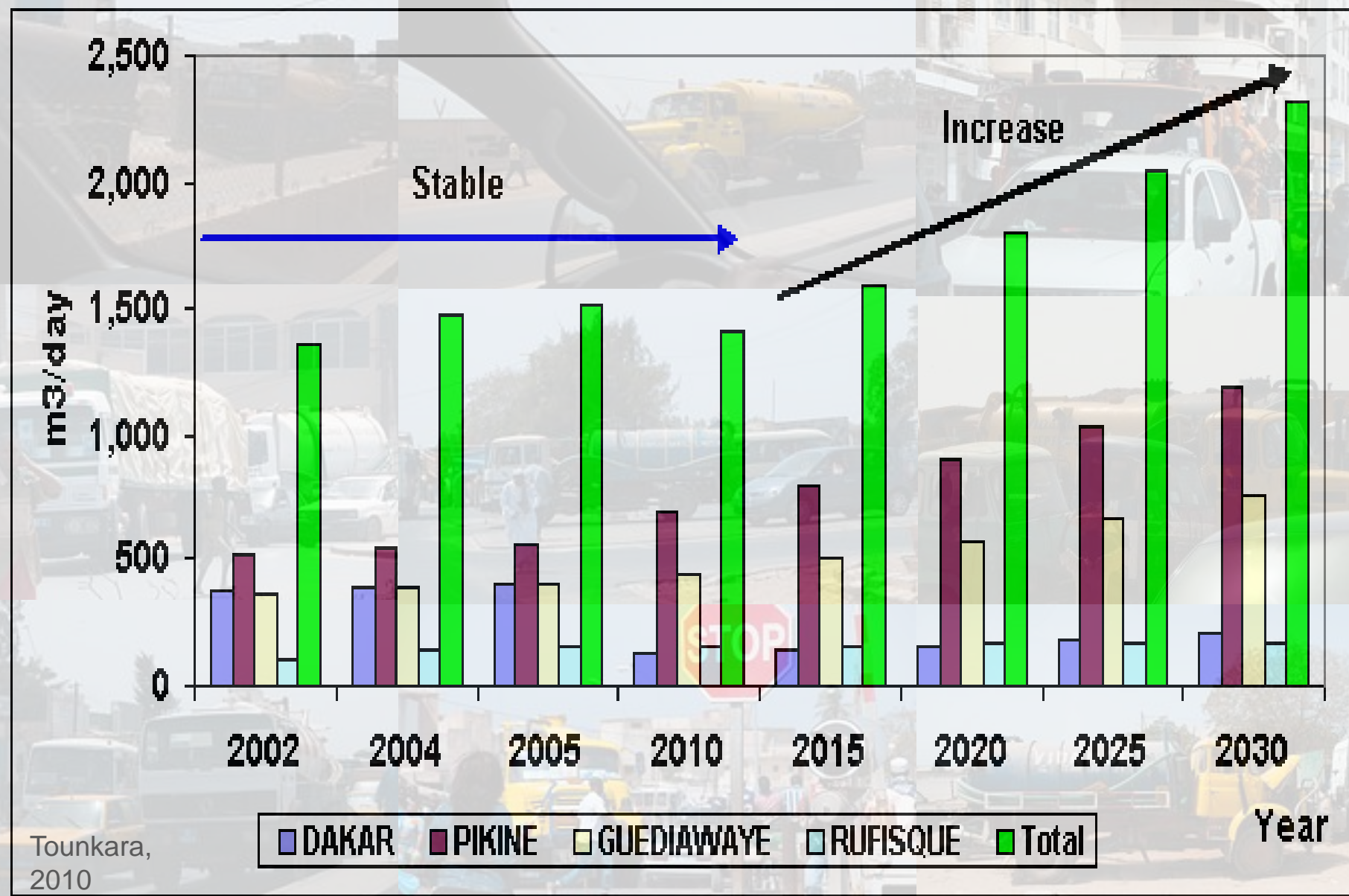
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**GATES foundation**

# Context

- 84% of SSA inhabitants use OSS facilities (latrines, septic tanks, etc.).
- In Senegal, nearly 92% are on non-collective sanitation.
- The cost of OSS (mainly pit desludging) is around 130 USD/y/HH.
- The C/T of fecal sludge has always been in the hands of service providers that are mechanical and manual emptiers, municipalities as well as communities.
- Prior to 2006, FSM were characterized by:
  - a direct dumping of sludge in the immediate vicinity, in natural environment, in the streets during storms,
  - an inefficient mechanical desludging service,
  - an illegal dumping of sludge in the collective sewer network.

# one day in Dakar traffic...so much FECAL SLUDGE !!!



# Program Objectives

The objective of the program is to improve health and living conditions of the inhabitants of Dakar's suburbs with access to hygienic and affordable sanitation service. It will:

1. encourage the development of sanitation's private sector;
2. improve the quality of service offered by private emptiers;
3. enhance the demand for mechanical service by improving access to information and awareness at the household level;
4. facilitate the access to fecal sludge treatment facilities and their performance;

# Program Activities

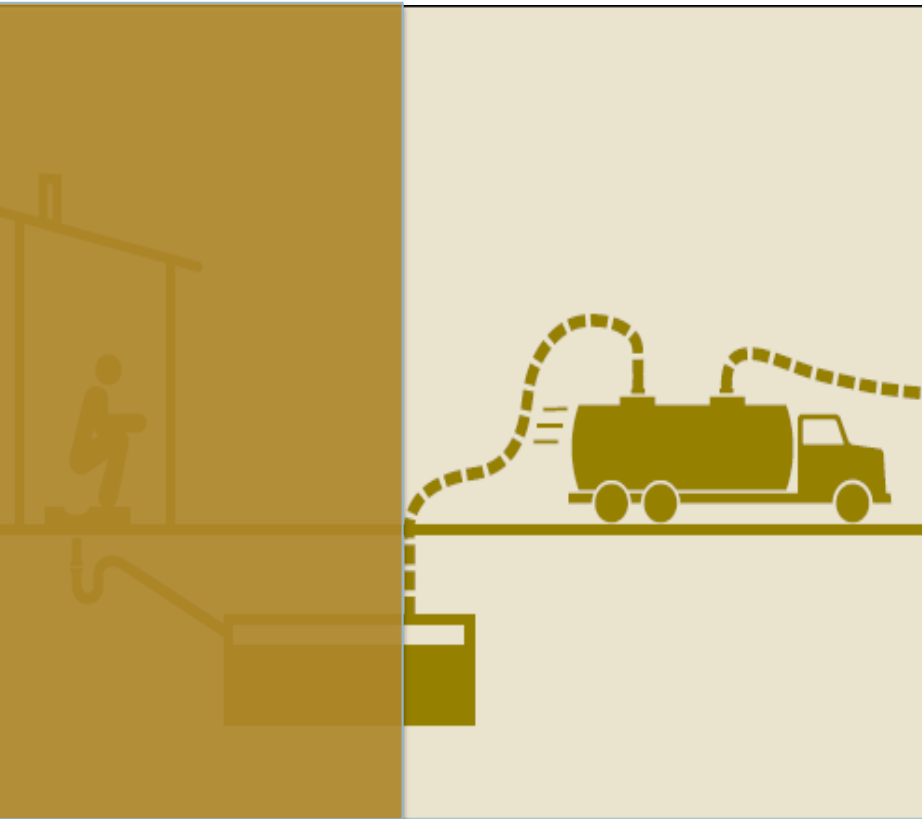
## Capture and Storage



- Develop at least 2 to 3 innovative toilet technology and services models for flood-prone areas
- Expected results – Replicable business model to service up to 5,000 families in flood-prone areas of Pikine by 2015.
- Put in place a technical and financial model replicable in Senegal's secondary cities and other towns in Africa.

# Program Activities

## Industrial organization of FS emptying and transportation



- License for operation
- Customer sourcing
- Rationalize the collection service (cartography, geo-localization, call center)
- Access to investment (cheap loan)
- Testing of innovative technology (BMGF Omni-ingestor)

# Program Activities

## Industrial organization of FS processing – Financial viability

- Conductive policy and regulatory framework to increased private sector participation and private investment
- Technology for marketable resource recovery (energy, fertilizer, water)
- Financial viability of FS processing (positive return on investment)
  - China-Africa biogas project (jointly with Burkina Faso)
  - BMGF – Omni-processor to be tested



# Key results

- First contract signed for the operation of 3 FSTP in Dakar
- A customer management platform (call center) that will offer affordable service fees to poor HH in Pikine / Guediawaye
- Project leader invited at ONAS weekly board of Director meetings
- Improved relationship between ONAS (national authority) and none-pipe sanitation service providers
- Increased visibility of FS emptiers job profile (TV interviews, participation to international events, trained personnel)
- Database of 59 000 HH Septic Tank referenced.
- Database of 135 trucks referenced
- Network of partner for testing innovative technologies and business model
- A reference case for many other utilities





**Merci**