



Republic of Senegal

Ministry of Rural
Water Supply

Ministry of Public Hygiene,
Sanitation and Urban Water



Thematic Week 5 – Water Tribune

EXPO ZARAGOZA 2008

**Water Sector in Senegal and the
Millenium Development Goals**

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SUMMARY

- METHODOLOGY AND ROADMAP
- SECTOR REVIEW
- STRATEGY
- PLANNING AND IMPLEMENTATION
- SOME TOOLS OF THE UNIFIED FRAMEWORK OF INTERVENTION



SENEGAL BRIEF PRESENTATION

GENERAL DATA



Total Area 196.700 km²

Population 11 millions

Urban Population 46%

Rural population 54%

GDP per capita US \$ 600

Economic growth 6.5%

Population growth 2.2%

- Rural 2.07%

- Urban 2.40%



- 4 months rainy season :
June to September

- Annual rainfall varying
from 1800 mm in the South
to 200 mm in the North.

METHODOLOGY FOR MDGs ROADMAP

Formulation process of PEPAM

Phase 1: Sector review

Infra-
structure

Access

Sector
Policy

Capacity to
deliver

Financing

Phase 2:

Objectives and sector
strategies

Phase 3:

Investment Program



DESIGN OF MDGs ROAD MAP

Country dialogue in participative process (2004)



Inception

Sector
review

Validation
of Strategy
and
Program

14
January
2004

23-24
September
2004

07-08
January
2005

Three national workshops

150 participants each

ACCESS TO W&S SERVICES

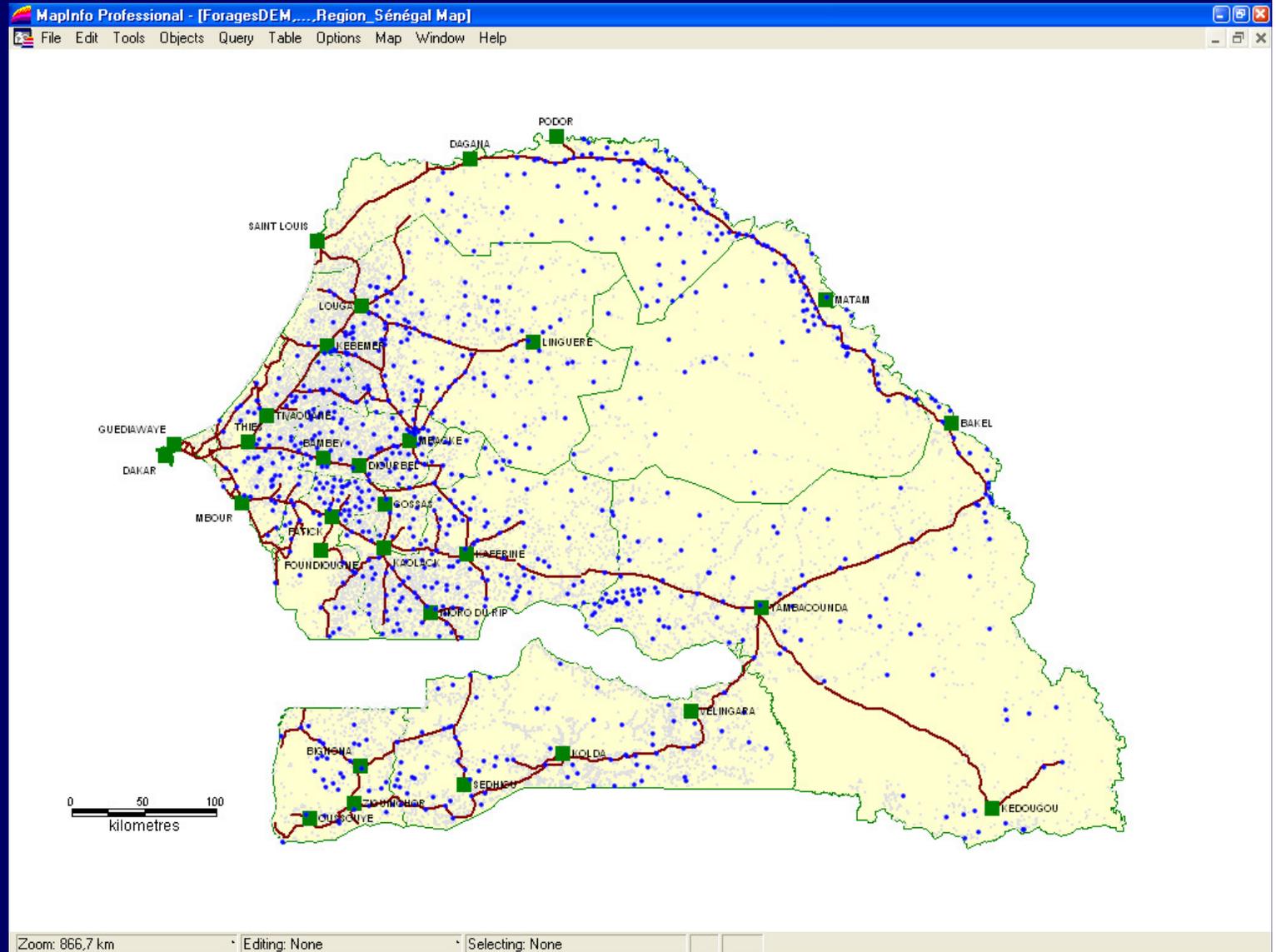
TECHNICAL PACKAGES



WATER	URBAN SANITATION	RURAL SANITATION
<p>Private connections</p> <p>Standpipes</p> <p>Handpumps</p> <p>Protected wells</p>	<p>Sewage Connections</p> <p>Septic tank</p> <p>Ventilated Improved Pit Latrine or manual flush toilet + wash tubs with sumps,</p> <p>Sealed tanks</p>	<p>Ventilated Improved Pit Latrine or manual flush toilet</p> <p>+ Promotion of washing facilities</p>

ACCESS TO W&S SERVICES

Mapping of the water access in rural areas



INVESTMENT IN URBAN CENTRES WATER SECTOR REFORM 1996-2007



PSE : 200 Millions \$



PLT : 250 Millions \$

OTHERS : 50 Millions \$



TOTAL : 500 Millions \$

**50 millions \$ per year funded by loans
of 8 donors (IDA : 50 %)**



URBAN WATER - MAIN OUTPUTS



1. Water production : 96.330.000 m³/day in 1996 to 135.380.000 m³/day in 2007 (+40%)



2. Sector's revenue : from 46 millions \$ in 1996 to 105 millions \$ in 2007, an increase of about 8% per year

3. The billing collection ratio is 98%.

4. Government billing collection ratio is 100 %



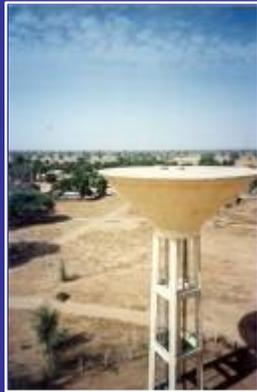
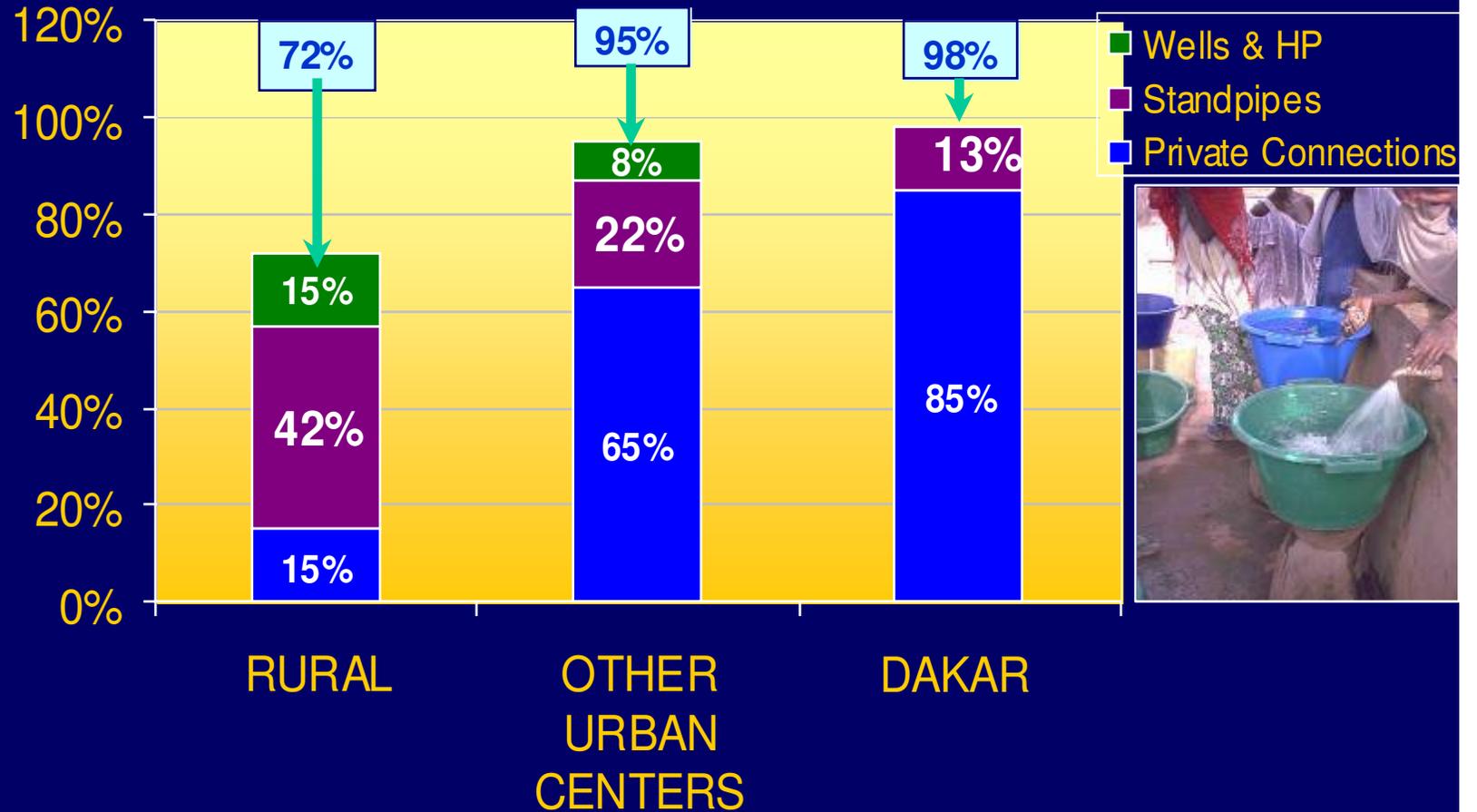
5. Unaccounted For Water : 31, 8 % in 1996 to 20% in 2007

6. Customers grow from 254.847 in 1996 to 455.870 in 2007



ACCESS TO WATER SERVICES - 2007

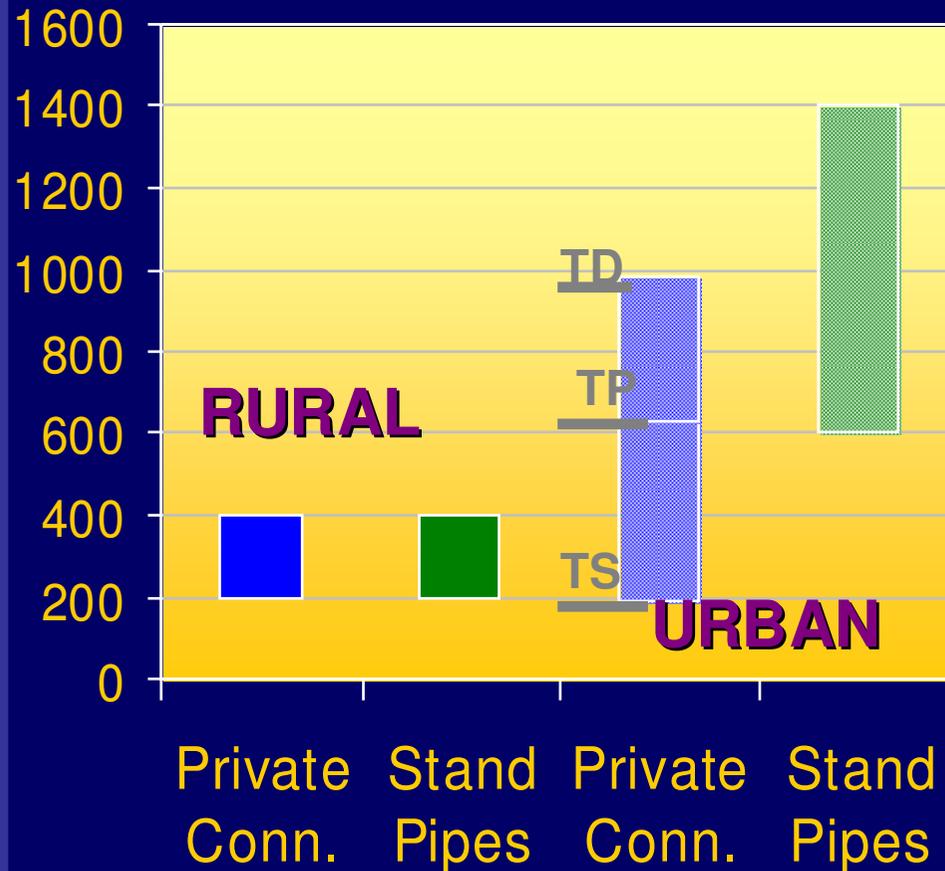
Water access rate (% population)



ACCESS TO W&S SERVICES : Tariffs



Tariffs bracket (FCFA/m³)



Rural:

- Tariff standpipes = 200 FCFA/m³ (38% des sites)
- Tariff deemed affordable by 80% of Asufors

Urban:

- Tariff for social block = 191 FCFA/m³
- Tarif standpipes = = 3 to 5 times the social block tarif
- Tariff deemed high by users

ACCESS TO SANITATION SERVICES - 2007

Rural : on site sanitation



17 % considered as appropriate

STRATEGY (rural component)

Three strategic thrusts for the rural PEPAM

Unified Intervention Framework

- **Federate** all the initiatives on MDGs
- Ensure the **coherence** of the interventions on the ground
- Promote **intersectorial synergies** (sanitation, decentralization)

Reforms

- **Appropriate legal framework**
- Participation of the **private sector** in delivering services
- Focusing the state roles on monitoring and **regulation**

Sustained financing systems

- Ensure a lasting **financial balance** of water services
- Ensure the **availability of funds**



Three main strategic orientations in rural areas

1. Unified Framework of Intervention for all actors



New planification and programming system associating the State services and rural communities → PLHA

Conception and construction rules applicable to all projects and « technical packages» for water and sanitation

Operation of Water services by ASUFOR or private operator under management delegation of the water public service

Maintenance and repairing by private operators

Regulation by technical services of the State

Three main strategic orientations in rural areas

2. Continuation of reforms and redefinition of the State role

Adoption of the new law on the water and sanitation public service

Updating and streamlining the organisation and attributions of the services of the state : implementation of executing capacity in line with the needs and challenges

Progressive extension of the principles of the reform for the management of the motorized rural boreholes

- Generalisation of « ASUFOR » model to all the boreholes
- Delegation of the drinking water supply public service to ASUFORs legally recognized or to private operators
- Delegating authority exerted by the State, with possible further transfer to local governments

Transfert of the maintenance of rural boreholes to the private sector to be completed by December 31, 2009

Promotion of PPPs in rural areas (medium sized centres to be incorporated in the concession of SONES)



Three main strategic orientations in rural areas

3. Sustained financing systems

Financial balance of motorized boreholes assured by the selling of water per volume, and a fair repartition of the renewal charges between the State and rural users

Users to pay $\geq 60\%$ of the costs

Renewals > 20 years: Central or local governments

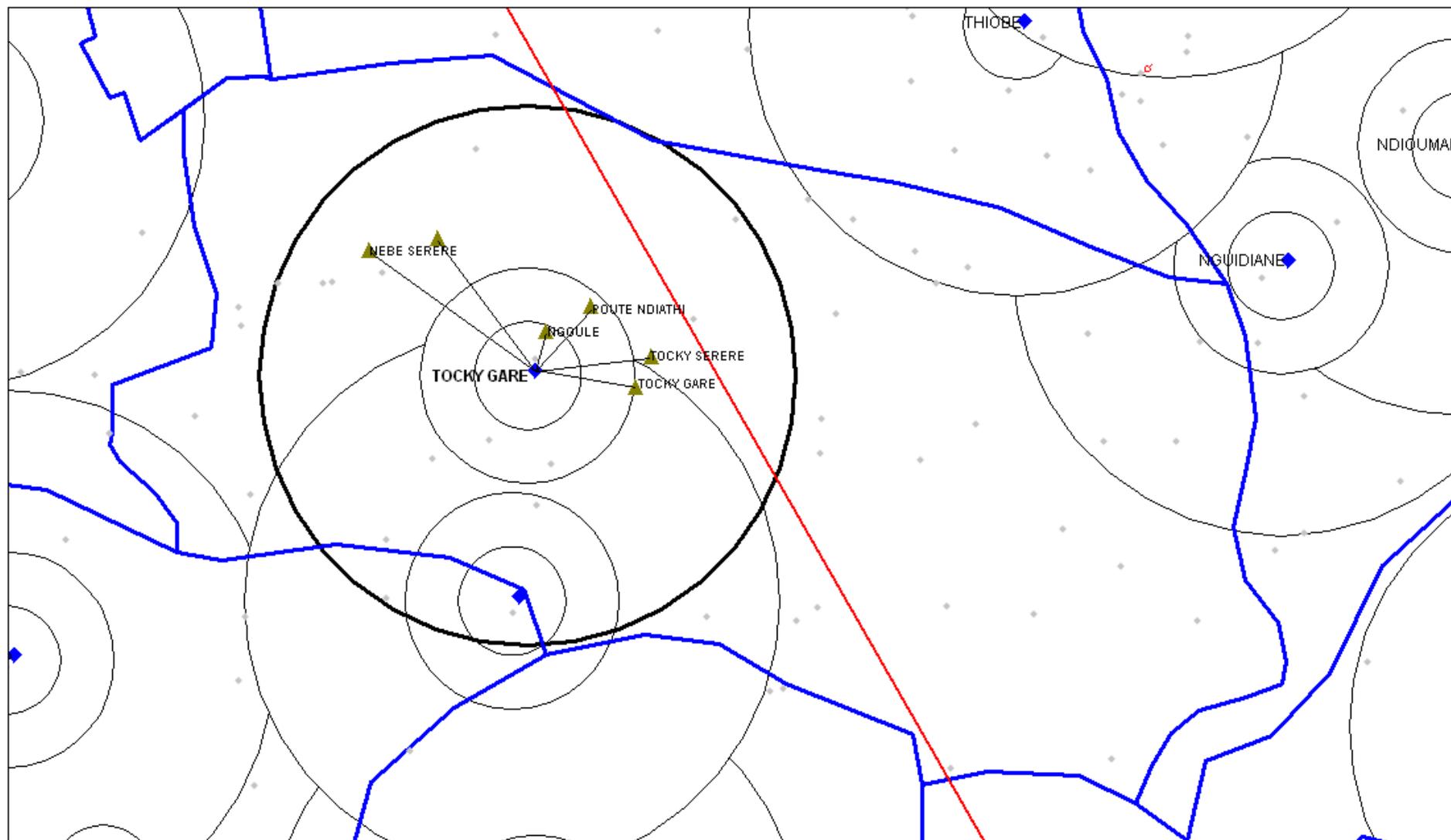
Initial financial participation of users = general principle to be applied for future investments : 2 to 5 % of the investment capped at 2 \$ per capita.

Mid-Term Expenditure framework for water and sanitation in rural areas to be operational in 2009

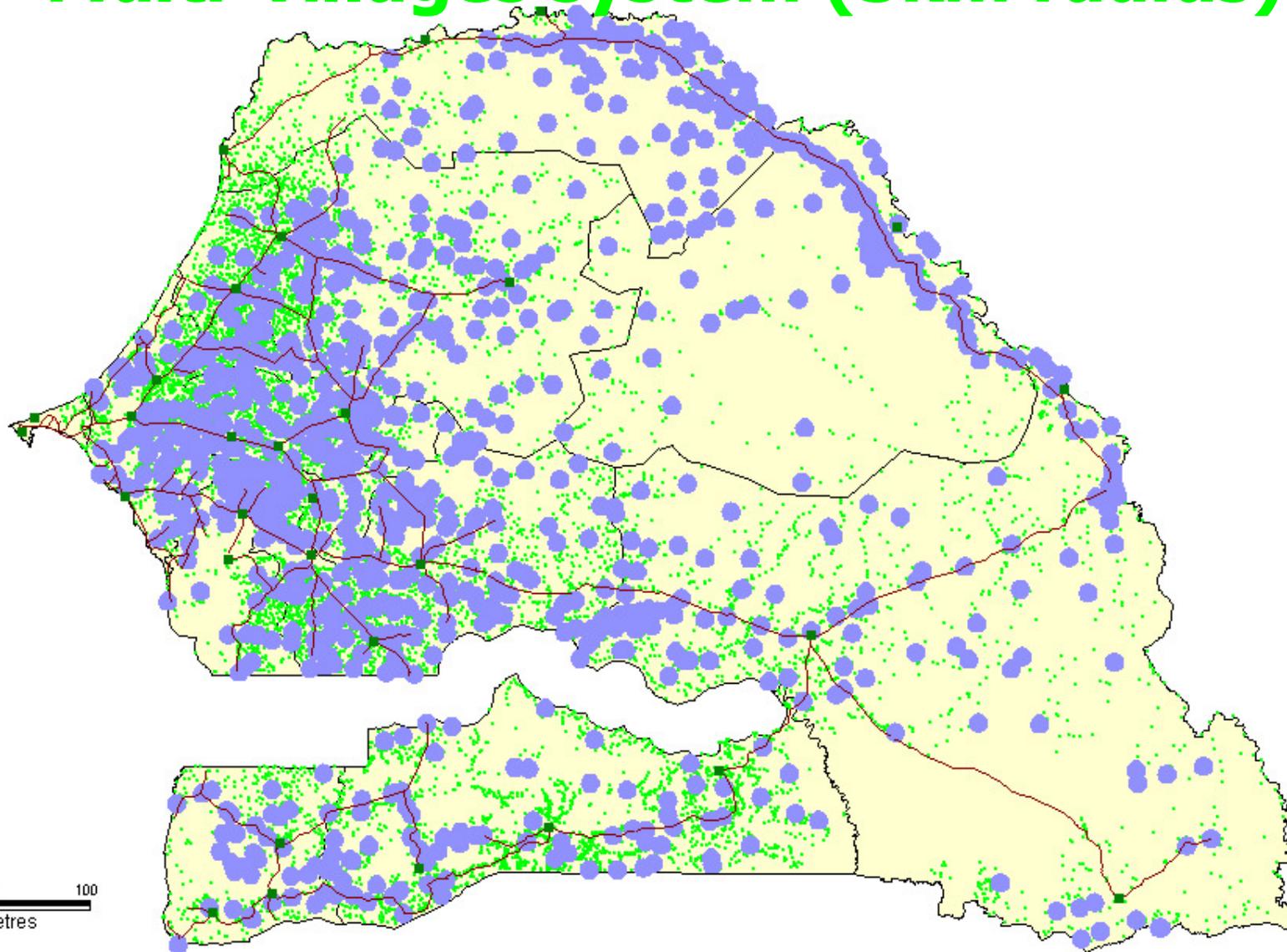


COMMUNAUTE RURALE DE TOCKY GARE
FORAGE DE TOCKY GARE

LISTE DES LOCALITES DESSERVIES
RAYON D'INFLUENCE R=1,2 ET 5 KM



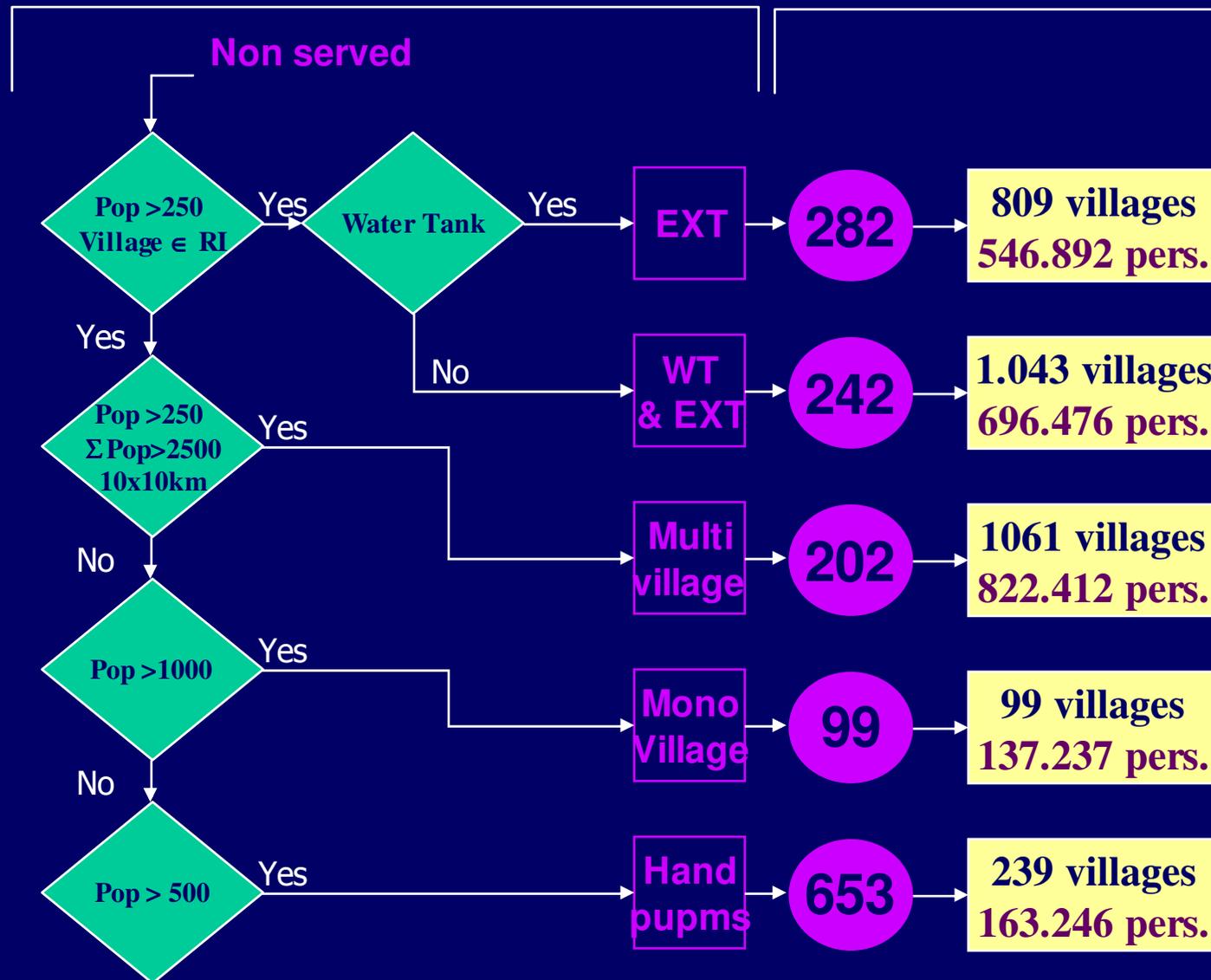
Multi-villages system (5km radius)



Extension of water services in rural areas (new infrastructures)

Planification

Results



General presentation of PEPAM

OBJECTIVES

Objectives : **Reaching the MDGs**

- Reducing by half, by 2015, the proportion of people not having an adequate access to drinking water and sanitation
- Ensuring the quality and the durability of the services



General presentation of PEPAM

OBJECTIVES



- Objectives for 2015 in rural areas

- To pass the access rate of drinking water from 64% in 2004 to 82%, +2,3 million people to be served
- To pass the access rate of sanitation from 17% to 59%, or +3,5 million people to be served

- Objectives for 2015 in urban areas

- Reaching universal access (100%) for drinking water and to pass the access rate by private connections from 75,7% in 2004 to 88% for Dakar, and 57,1% in 2004 to 79% for other urban centres
- To pass the sanitation access rate from 56,7% in 2004 to 78%, (85% for Dakar, 72% in the sanitized centres and 68% in the non sanitized centres.



General presentation of PEPAM

A New unified framework of intervention in rural and urban areas

The Millennium Water and Sanitation Program (PEPAM)

- Program approach covering the period 2005-2015
- Assertion of synergy between water and sanitation
- PEPAM set up by interministerial decree (Oct. 20, 2005)
- Supported by the Sector Letter Policy (July 15, 2005)





COSTS (Rural)

Estimated cost 2005-2015 : 520 millions \$

Components	Cost	% Total
WATER INFRASTRUCTURES	M\$ 291 000	56%
SANITATION INFRASTRUCTURES	M\$ 198 000	38%
UNIFIED FRAMEWORK OF INTERVENTION	M\$ 31 000	6%
TOTAL	M\$ 520 000	100%
Annual commitment	M\$/Year 47 273	

Execution in four phases

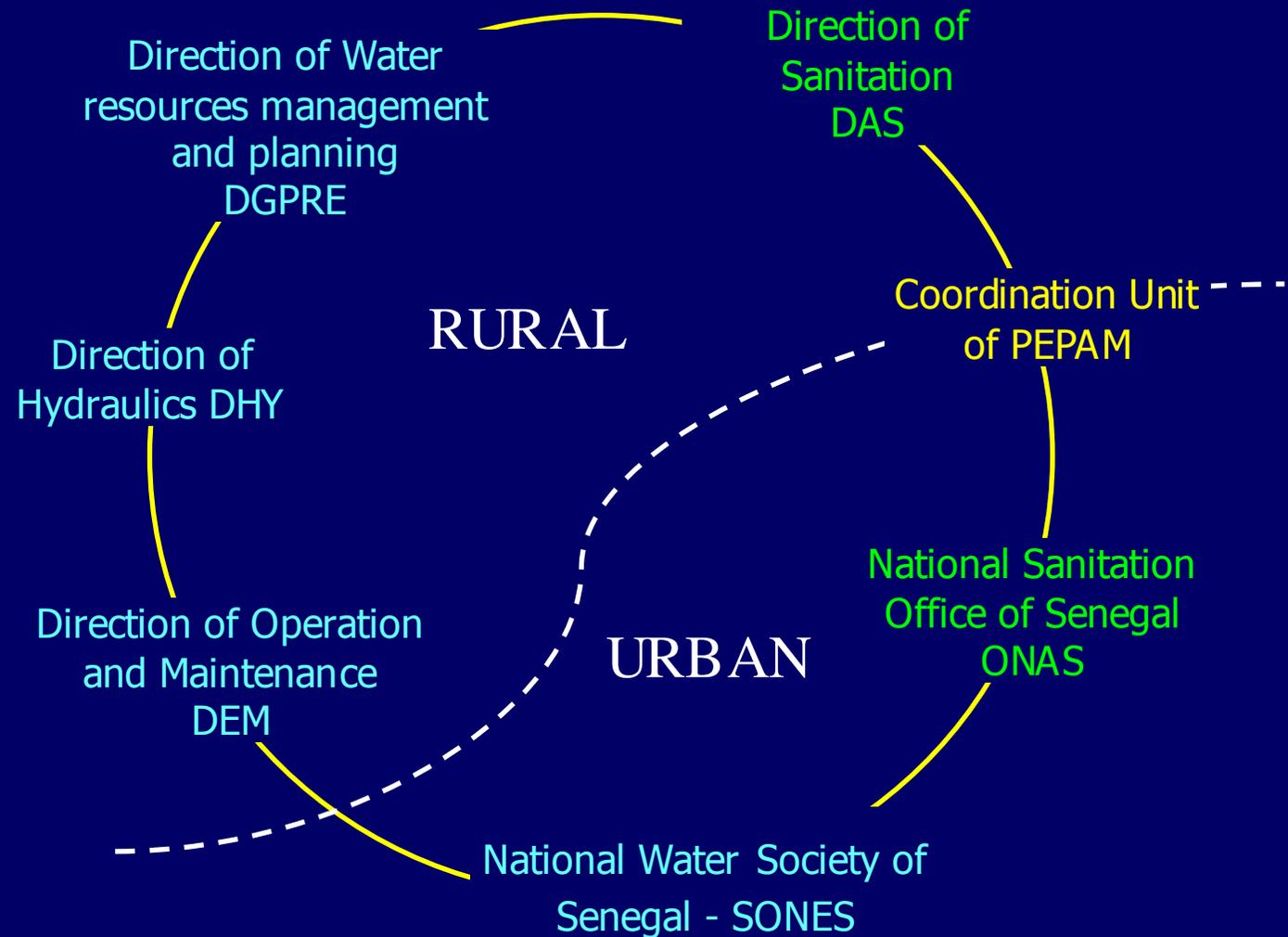
Composante		Phase 0		Phase 1		Phase 2		Phase 3	
		2005	2006	2007	2009	2010	2012	2013	2015
WATER	M\$		20,6	100,2		120,1		67,7	
SANITATION	M\$		13,2	45,5		80,5		67,8	
UFI	M\$		12,4	9,4		6,7		3,9	
TOTAL	M\$		46,2	155,2		207,3		139,4	
Annual disburser	M\$/Year		23,1	51,7		69,1		46,5	

General presentation of PEPAM

7 implementing agencies

Water

Sanitation



Some tools of the UFI

Internet portal on W&S access : a central PEPAM tool



The **Portal of PEPAM** is an information tool on :

- The **situation of access** at the village level
- The **PLHA** and **the monitoring** of ongoing or programmed projects
- The **infrastructures** (characteristics, location)
- The **operating data** of motorized rural boreholes
- The **actors**
- The PEPAM **news bulletin** and the **documentation** (for download)

The **Portal of PEPAM** will be a tool for exchanges and dialogue

- The **updating** of the portal will mobilize all the actors
- **Forums of discussions** may be opened for knowledge sharing
- **Monitoring and evaluation** activities

www.pepam.gouv.sn

Some tools of the UFI

Water and sanitation manual



The **Water and sanitation manual in rural areas** is a reference document for :

- The **planification and the programming** of projects
- The « **technical packages** »: typologies, norms and standards, rules of conception, sustainability of the services
- The **operation** of equipments (installation of ASUFORs, training)
- The **maintenance** (contracting with private operator)
- The **regulation and the control** (Central and local governments, users)
- The **monitoring and evaluation** (generation and monitoring of data)

The **specifications of the Manual** are classified into three categories:

- **Mandatory** : to be applied to all projects
- **Recommanded** : « Good practices » drawn from experience
- **Suggested**: depending on the local context

Some tools of the UFI

Local water and sanitation plan (PLHA)

The **Local water and sanitation plan (PLHA)**: a tool of **participative planification** integrated to the **local development plan** and shared by local Communities and central government services

A unified conception approach :

- **Standardized methods** of inventory and assessment
- Solutions chosen by the populations and the rural council in line with the **criteria of viability** defined by the sector
- **Priorities** established by the populations and the rural Council

320 PLHA to be realized in 2-3 years



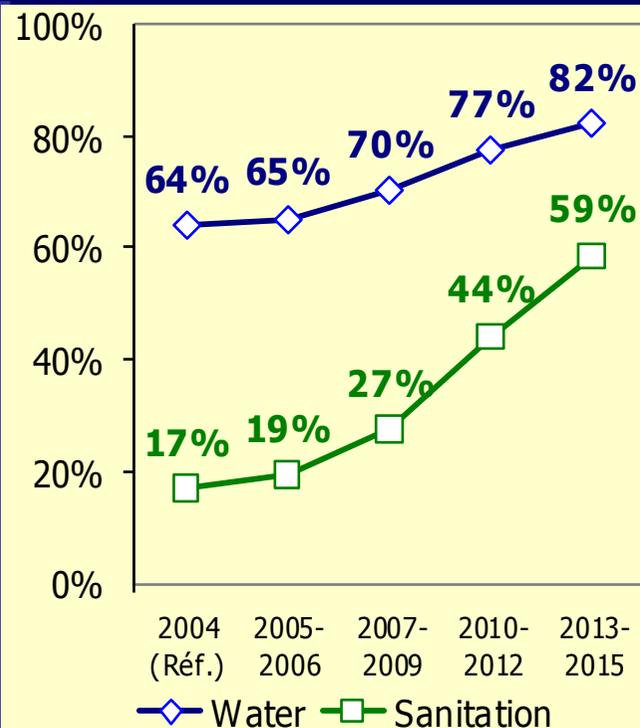


PEPAM : a results oriented approach

The Paradigme shift : How many additional people to serve each year ?

Objective 2009 : 750.000 pers. Served

Progression of access rate
in rural areas (projections)



PEPAM sub-programs identified
2006-2009 : 550.000 pers.

- BafD, Belgium, Luxembourg, World Bank, 400.000 pers. served
- National Budget : + 150.000 pers. served

Local projects (communities/
NGOs) : +200.000 pers.



Thank you for your attention

PEEPAM

Programme d'eau potable et d'assainissement du Millénaire

