




**PROMOTING THE USE OF QUALITY WATER
FOR URBAN AND PERI URBAN AGRICULTURE:
A REALITY IN DAKAR, SENEGAL**



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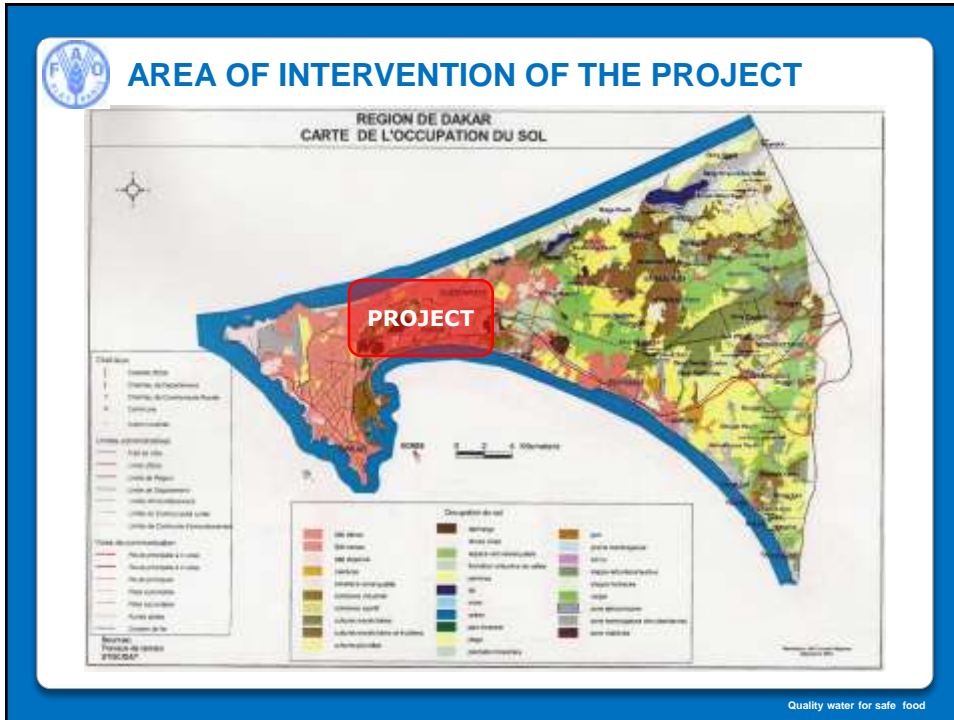
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GENERAL INFORMATION

PROJECT CODE	GCP/SEN/061/SPA
DURATION OF THE PROJECT	2 YEARS
START DATE	JUNE , 2009
END DATE	JUNE ,2011
PARTNER INSTITUTIONS	MUNICIPALITY OF DAKAR MINISTRY OF AGRICULTURE
BUDGET	1 053 293 US dollars
DONOR	SPAIN

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JUSTIFICATION OF THE PROJECT

An alarming and paradoxical situation:

The use of untreated water to produce vegetable that are mostly consumed raw (lettuce, cucumber, tomato and green pepper)

While

The national office of sanitation (**ONAS**) is implementing a wide program of wastewater treatment in Dakar:

- two treatment plants
- treated water used by a golf course and roads constructors

→ Water is available but farmers do not have access to it.

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JUSTIFICATION OF THE PROJECT



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MAIN OBJECTIVE OF THE PROJECT

Enhance the availability and access
to quality water
for sustainable urban and periurban agriculture
in order to contribute
to food and nutritional security
and income generation for the population

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CONTEXT

- A new municipal governance
- Institutional instability at ONAS with many changes of directors
- 73% of targeted beneficiaries are on precarious land tenure:
 - rent, sharecroppers, entrusted
 - No way to deliver property rights
- Nevertheless, the area remains for agriculture in all development plans and the Mayor has stated that no more building authorization will be delivered

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EXPECTED RESULTS

- Improved tenure security for farmers in project area.
- Two irrigation networks with treated wastewater serving 250 peri-urban farmers
- A manual on the use of extensive treatment systems and good practices for the uses of wastewater
- 1500 farmers and institutions are trained in:
 - ✓ good agricultural practices
 - ✓ good uses of treated wastewater
 - ✓ maintenance of irrigation infrastructures and equipments
 - ✓ water quality monitoring

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ACHIEVEMENTS SO FAR

- Letter of Agreement with the Municipality of Dakar
- Organization, information and awareness campaigns for producers
- Capacity building in management for beneficiaries
- Advocacy for land security of horticulture production areas

Implementation of a credit line within the Municipal Development Fund for UPA producers

- Communication and relation with media

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Letter Of Agreement ONAS – UPROVAN- PROJECT

ONAS:

- Provides **2000m³/day** tertiary treated wastewater and **900m³/day** secondary treated wastewater at **0.1 USD /m³** and **0.04 USD/m³** respectively
- Supports the design of irrigation infrastructures and equipments, supervises the works of installment of pumping, stores, transports and distributes treated waste water

UPROVAN:

- Uses the treated water for the purpose of horticulture production only
- Implements the good practices for wastewater use
- Pays water bills to ONAS
- Insures that the infrastructures and equipments are well maintained

Project :

- Facilitates project implementation and negotiations among partners
- Provides the funds to acquire the goods and services needed for the works
- Monitors the implementation of the works

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Letter of Agreement with ENDA RUP

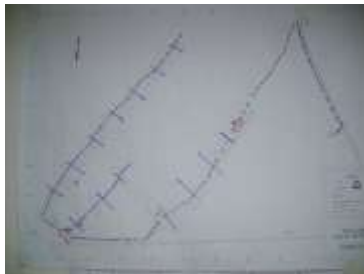
- Have an overview of the knowledge on extensive treatment technologies using macrophytes and microphytes
- Realize a pictorial manual on the use of extensive treatment systems and good practices for the use of wastewater
- Hold a workshop on extensive treatment technologies and water quality management



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Irrigation network schemes



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Construction works



Shelter for power driven pump



water storage Basin under construction

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Irrigation Equipments



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