

# Presentation 4

## Clean Oceans Project Identification and Preparation (COPIP) for Sub-Saharan Africa – COPIP Greater Banjul Area Integrated Waste Management Project



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# **Clean Oceans Project Identification and Preparation (COPIP) for Sub-Saharan Africa**

## **COPIP Greater Banjul Area Integrated Waste Management Project**

**Joanes Odero : 10<sup>th</sup> October 2024**

# COPIP: What we are doing

## Overall Objective

**To contribute to the improvement of financial, economic, social and environmental infrastructure in targeted countries in Sub-Saharan Africa, in support of cleaner and more sustainable oceans.**

## Purpose of the Project

To support the identification and preparation of technically, financially, economically, environmentally and socially sound investment projects in the sectors of solid waste management, wastewater and storm water management in Sub-Saharan Africa in accordance with EU priorities, supporting and extending existing donor programmes as appropriate

### Direct Results

A pipeline of **minimum 20 projects identified and fiches produced**

**Eight Pre-Feasibility project prepared** including Terms of Reference for the project implementation support,

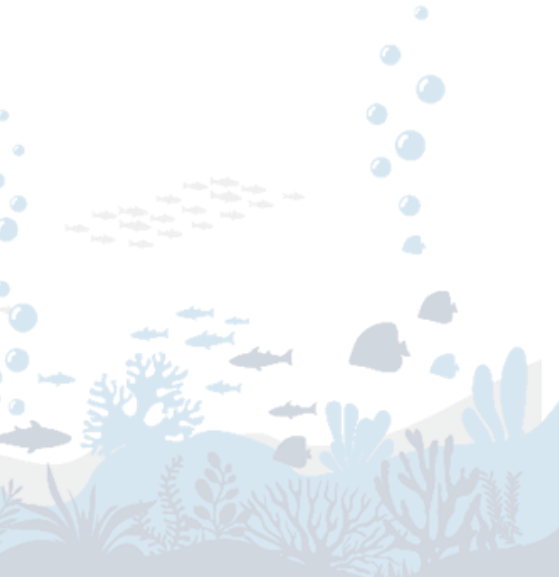
**Six projects prepared at Feasibility Study** including Terms of Reference for the project implementation support,

**Two pilot projects and dedicated activities** to public and/or private sector project sponsors and other government counterparts.

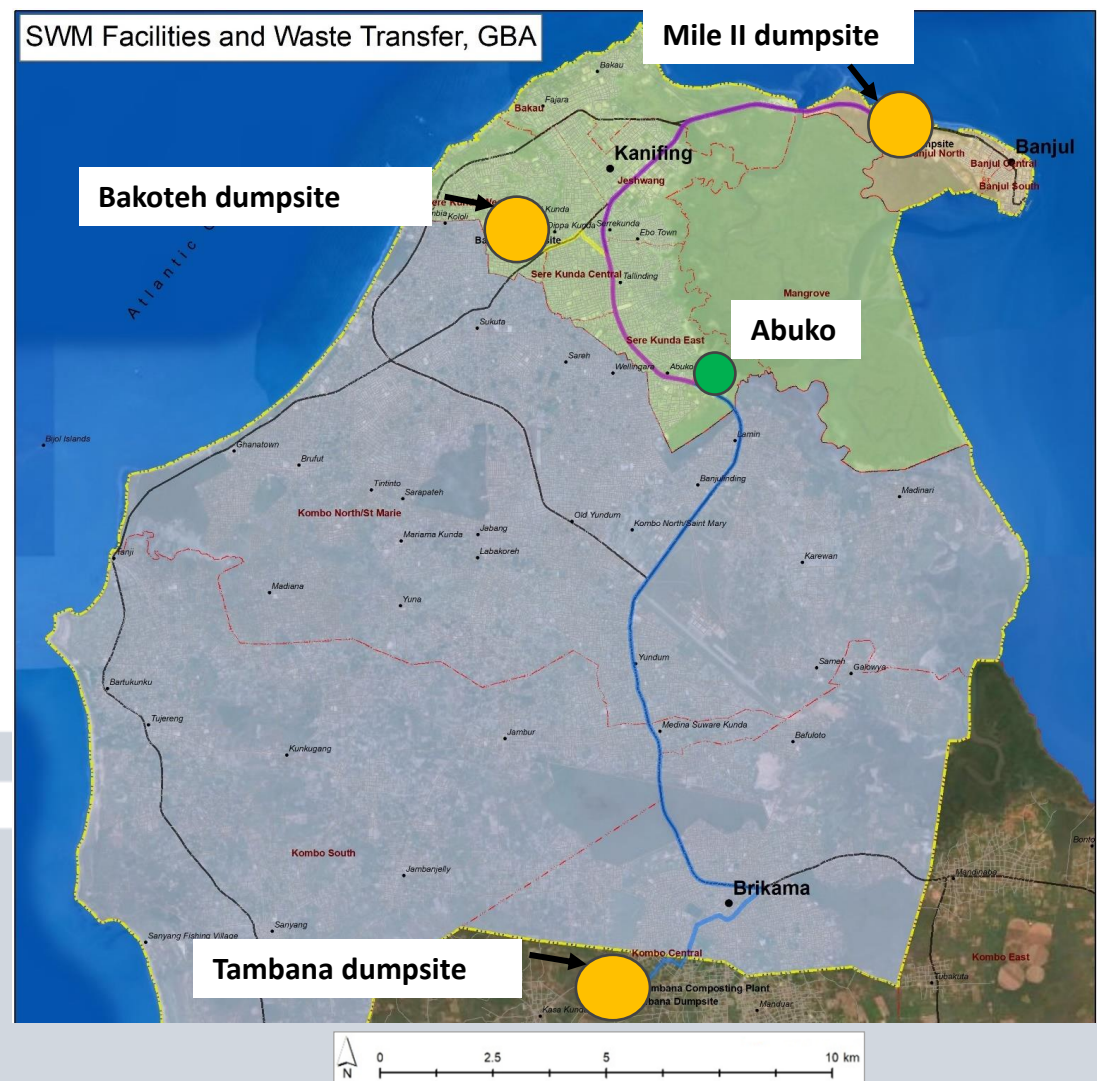
### Indirect Results

- Accelerated access to increased levels of finance for project sponsors from donor and commercial sources,
- Improvements in preparation of feasible, viable and sustainable projects, acceptable for financing by IFIs,
- Increased engagement between local authorities and the private sector and other stakeholders involved in the three target sectors,
- An enhanced collaboration between donor partners
- Improved environmental and social outcomes for projects.

# COPIP: Project Progress



# COPIP Gambia: Integrated Solid Waste Management project



**Greater Banjul Area:** map showing the 3 entities (11 districts)  
**Population:** approx. 1.4 million  
**Growth rate :** -0.9 to +7.0 % per annum

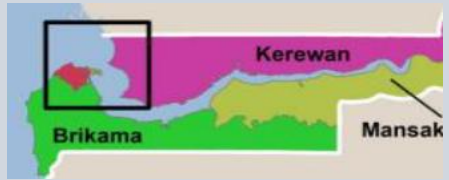
**Daily solid waste generation :** over 1000 tonnes/ day (t/d)  
15-90 % of the waste collected (ave: 28 %), 700+ t/d not collected)

**The Project Promoter :** Ministry of Finance & Economic Affairs

**Client:** European Investment Bank (EIB)

**Key stakeholders include :** EUD Gambia,  
Ministry of Lands, Regional Government & Religious Affairs (MoLRG)  
Ministry of Environment, Climate Change & Natural Resources (MECCNAR)  
Kanifing Municipal Council (KMC)  
Brikama Area Council (BAC)  
Banjul City Council (BCC)

PFS has been completed and is in the approval process.





# COPIP Gambia: Integrated Solid Waste Management project

## Technical assessment



**TETRA TECH**  
International Development



### Very limited recycling/treatment activities

- Collection of some plastic materials mainly by wastepickers at the landfill and informal sector
- Plastic processing at small scale
- Composting at small scale (partly suspended)

### Dumpsites generally in poor condition

- Mile II unfavourably located, needs to be closed
- Bakoteh needs transformation to reduce emissions + subsequent closure
- Tambana needs technical improvement (sufficient space)

Tambana dumpsite





# COPIP Gambia: Integrated Solid Waste Management project

## Technical option components



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**Waste collection  
from 28% to 80 %**



**Segregation of recyclables 70 t/d**



**Digester: 1 MW electricity from waste**



**Composting**



**Closure of dumpsites**



**New sanitary landfill at Tambana**

# COPIP Gambia: Integrated Solid Waste Management project

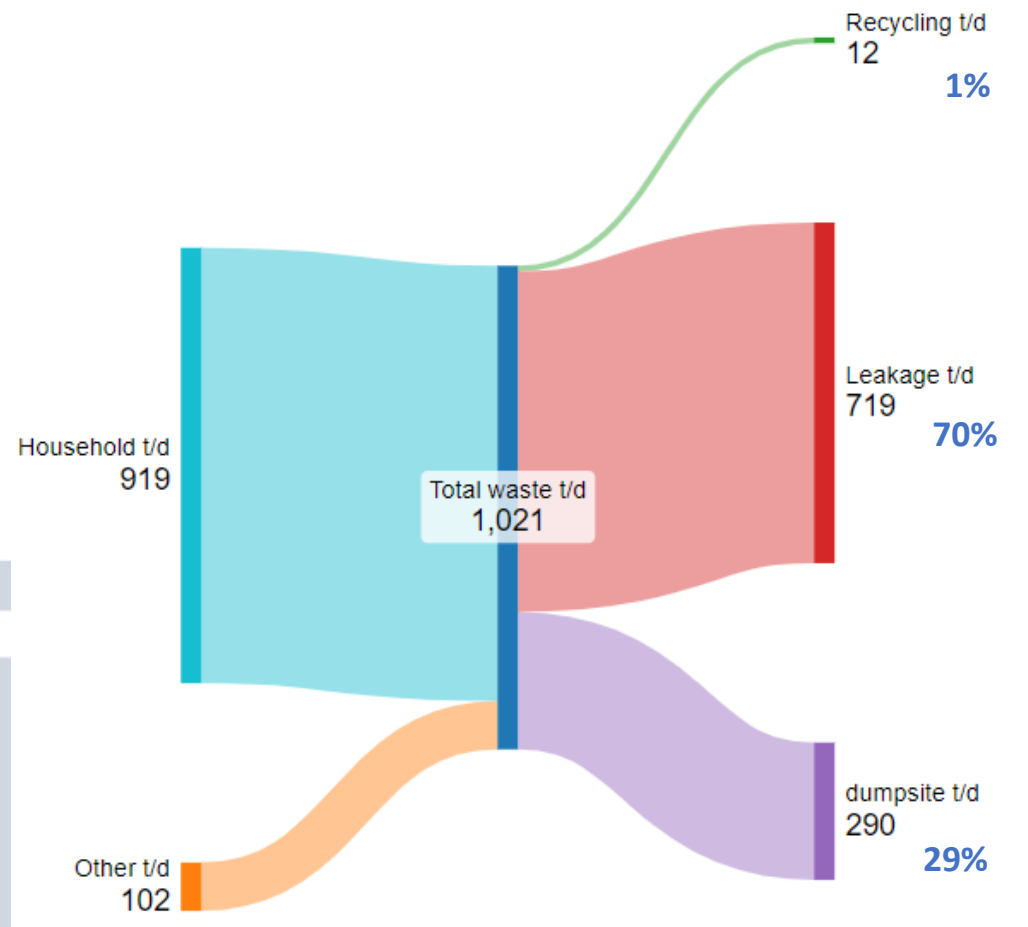
## Waste Flows business as usual and COPIP Project



**TETRA TECH**  
International Development

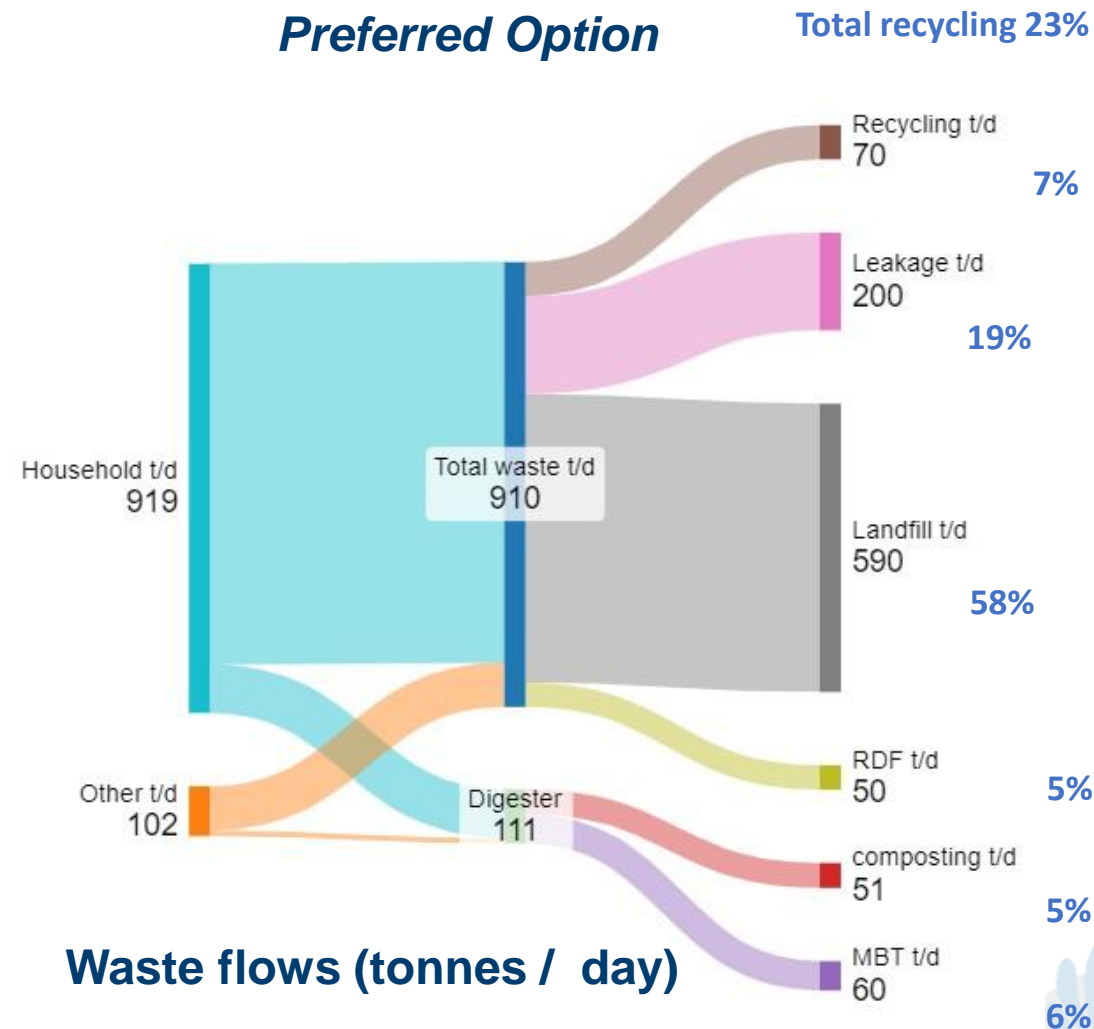


### Business As Usual (BAU)



**Waste flows (tonnes / day)**

### Preferred Option



**Waste flows (tonnes / day)**

**Total preferred option recycling : 231 tonnes/ day**

Notes: 1) all waste to undergo sorting at transfer stations (TS) prior to main MRF  
2) two organic waste streams for bio-digester : clean from markets or low quality from MRF



## Preferred Option CAPEX – PFS Findings

- CAPEX Investments EUR 42.5 million
- Avoidance of climate related losses
- Enhanced public health & wellbeing – each household expected to save 10 €/year.
- At least 400 new jobs and secondary employment effects
- Economic growth due to adoption of circular economy – electricity from biodigester (for 0.20 €/kWh) vs. diesel generators (which costs 0.60 €/kWh),
- Avoid marine littering, avoid ground water pollution
- Reduce health related losses & environment damages, impact of climate change

# Feasibility Study Progress

FS stage commenced in July this year and expected to end in November 2024. Tasks include refinement of the section and enhancement with

- Preliminary design of the infrastructure components
- Revised costs and financial and economic benefit analysis
- Institutional framework assessment for implementation
- Preliminary ESIA,
- ToR for the implementation phase (ie detail design and construction), capacity building.

**NOTE:** Implementation will be carried out after the COPIP programme is complete

**Thank You**

