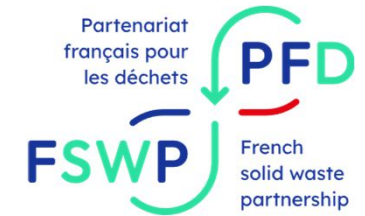


Success factors to gradually improve a holistic, locally adapted waste management...





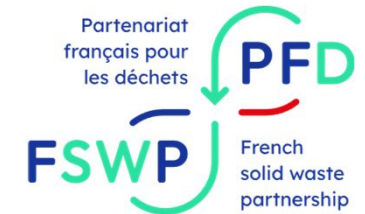
Success Factors for holistic waste management:

1 – Decision making capacity through a governance framework



l'agence
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des déchets
ménagers



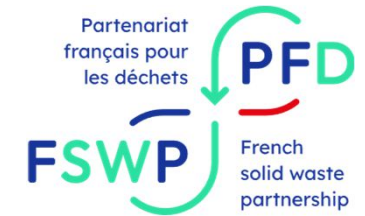


Success Factors for holistic waste management:

2 – A dedicated fiscal environment*

*that allows the financing of prevention, eco-conception, collection and treatment





Success Factors for holistic waste management:

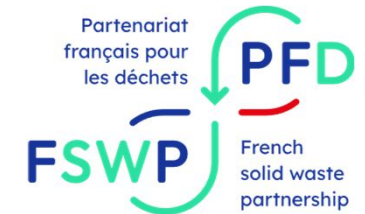
3 – Adequate financial and human resources for local authorities in charge* of waste

*with the necessary leeway to experiment with solutions



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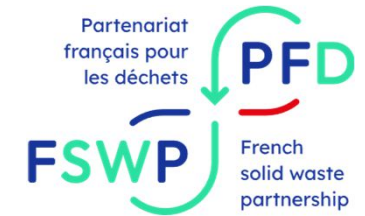


Success Factors for holistic waste management:

4 – A legal framework that clearly defines roles and responsibilities*

*for all stakeholders' regarding prevention, collection and treatment.





Success Factors for holistic waste management:

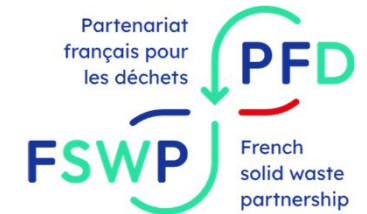
5 – Regulation* and control* of waste management activities

*** By independent and public authorities**



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Success Factors for waste management **solutions**:

1 – Systemic approaches



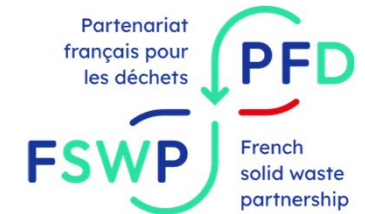


Success Factors for waste management **solutions**:

2 – co-construction* with the local authorities & population

*acknowledging the local context and capacities





Success Factors for waste management **solutions**:

3 – clear & ambitious targets for

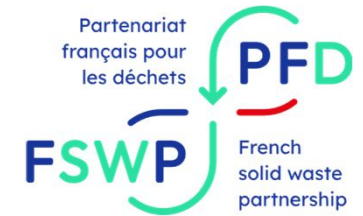
- prevention
- collection
- treatment
- resource recovery





A waste to resources industrial system

A systemic approach to reduce landfilling, recycle materials, and produce energy



WASTE & CLIMATE CHANGE

WASTE TO RESOURCES



A municipal solid waste plant to valorize 80% of waste into new raw materials, solid fuels and biomethane

- Materials Balance : for 100,000 t/y of waste
 - Biomethane = 62 GWh/y
 - New raw materials = 6,000 t/y
 - Fertilising products = 12,000 t/y
 - Refuse Derived Fuel (RDF) = 150 GWh/y

CLIMATE BENEFIT:

> 23 % reduction of CO₂eq emissions compared to baseline

CO-BENEFIT:

- > Increased income allows to stabilise waste treatment cost
- > Landfill diversion
- > Scalable and adaptable to various waste streams & energy needs

➔ [Un projet d'économie circulaire | Trifyl](#)



FRANCE - Tarn

 **urbaser**





WASTE FOR ALL
SDG

HOLISTIC WASTE
MANAGEMENT



Improving household waste management

Towards a sustainable urban transition in Lomé

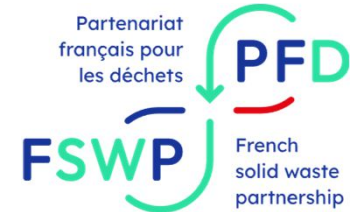
Holistic domestic waste management system in the Grand Lomé: 1.8M people, 300 kTon/y of solid waste.

An ongoing multi-tranch project since 2006:



- Improvement of the holistic solid waste management system and capacity building support
- Implementation of engineered landfills with long term biogas and leachate management
- Strengthening recovery & recycling initiatives,
- Improvement of the sector financial resources
- Gradual increase of performance requirements

➔ [FOCUS | La gestion des déchets solides | AFD - Agence Française de Développement](#)

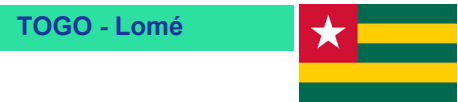


CLIMATE BENEFIT:

> Reduced GHG emissions through improved collection and landfill operation conditions

CO-BENEFIT:

- > Improved hygiene
- > Reduced pollution and drainage blockages causing chronic flooding
- > Capacity building



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BEHAVIORAL
SCIENCE

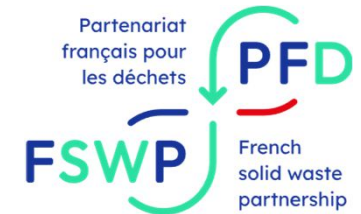


VIỆT NAM - Hà Nội

 Institut de Recherche
pour le Développement
FRANCE

A women-led informal waste collection system in Hà Nội

Waste collection and recycling in a city overwhelmed by waste



Main highlights
of this
comprehensive
study :



- 20% of urban waste is collected informally, mainly by women
- The informal sector is complex and composed of street collectors, waste deposit managers and recyclers
- Recycling practices are highly polluting for the environment and health

➔ [Collecter et recycler les déchets à Hà Nội - Acteurs, territoires et matériaux - \(EAN13 : 9782709929660\) | Un éditeur pour le développement \(ird.fr\)](#)

CLIMATE BENEFIT:

Baselines for future policy development to

> Reduce the pollution and emissions by improving the recycling techniques

CO-BENEFIT:

Baselines for future policy development to

> Improve working conditions of women collectors

> Recognize and support the informal recycling system



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HOLISTIC WASTE
MANAGEMENT

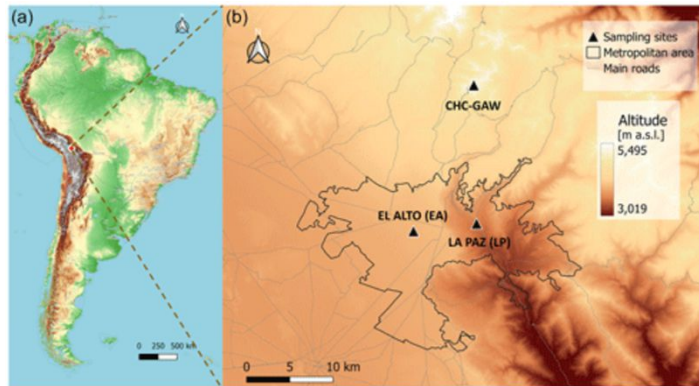


BOLIVIA - El Alto &
La Paz



Open-burning & Air quality

El Alto and La Paz – evaluation of airborne particle pollution sources



This evaluation of airborne particle pollution sources in Bolivia show that:

- Local air pollution in La Paz is mainly due to road traffic but additional sources such as waste burning may have non-negligible impacts
- Waste burning contributes only 2 to 5 % of total PM₁₀ but contains more than 50 % of the PAHs content which are carcinogenic components

➔ [Mardoñez, V. et al.: Source apportionment study on particulate air pollution in two high-altitude Bolivian cities: La Paz and El Alto, Atmos. Chem. Phys., 23, 10325–10347, https://doi.org/10.5194/acp-23-10325-2023, 2023.](https://doi.org/10.5194/acp-23-10325-2023)



CLIMATE BENEFIT:

Baselines for future policy development to

- > Reduce the emissions of black carbon

CO-BENEFIT:

Baselines for future policy development to

- > Improve air quality for citizens
- > Protect people's health



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MANAGEMENT



South Pacific



Strengthening national policies

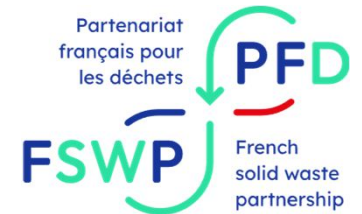
Waste management and sustainable financing in insular territories

A regional initiative leveraging the cooperation between insular countries to prevent marine debris (plastic), used oil, post-disaster waste from degrading the environment :



- Support local authorities in drawing up comprehensive waste management policies
- Strengthen their capacity for action
- Improve existing infrastructures by setting up pilot projects
- Promoting sustainable financing

➔ [FOCUS | La gestion des déchets solides | AFD - Agence Française de Développement](#)



CLIMATE BENEFIT:

- > Reduced GHG emissions from improved waste collection and treatment
- > Reducing drainage blockages and associated flood risks

CO-BENEFIT:

- > Protecting ecosystems
- > 200,000 people with improved access to essential public services
- > Job creation





WASTE FOR ALL
SDG

HOLISTIC WASTE
MANAGEMENT/
BEHAVIORAL SCIENCE



SENEGAL - Dakar &
3 northern regions



Promoting integrated solid waste management in Senegal

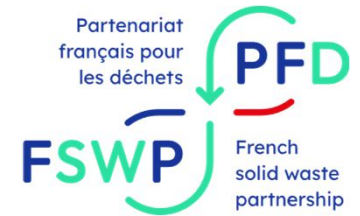
PROMOGED



Provide integrated solutions throughout the sector serving 6M people (2020-2026)

- Improve the regulatory, financial and fiscal framework of the sector
- Develop partnerships between the public authorities and private sector
- Rehabilitation of the Mbeubeuss Dakar dumpsite integrating the informal sector
- Foster a holistic waste management system

➔ [FOCUS | La gestion des déchets solides | AFD - Agence Française de Développement](#)



CLIMATE BENEFIT:

- > 542 kTon CO₂eq/y avoided compared to the uncontrolled dumpsite
- > Reducing drainage blockages and associated flood risks

CO-BENEFIT:

- > 6 million people with improved quality of life
- > Reducing pollution
- > Job creation



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