



“The Future of the World
Depends on How Openly
We Work Together”



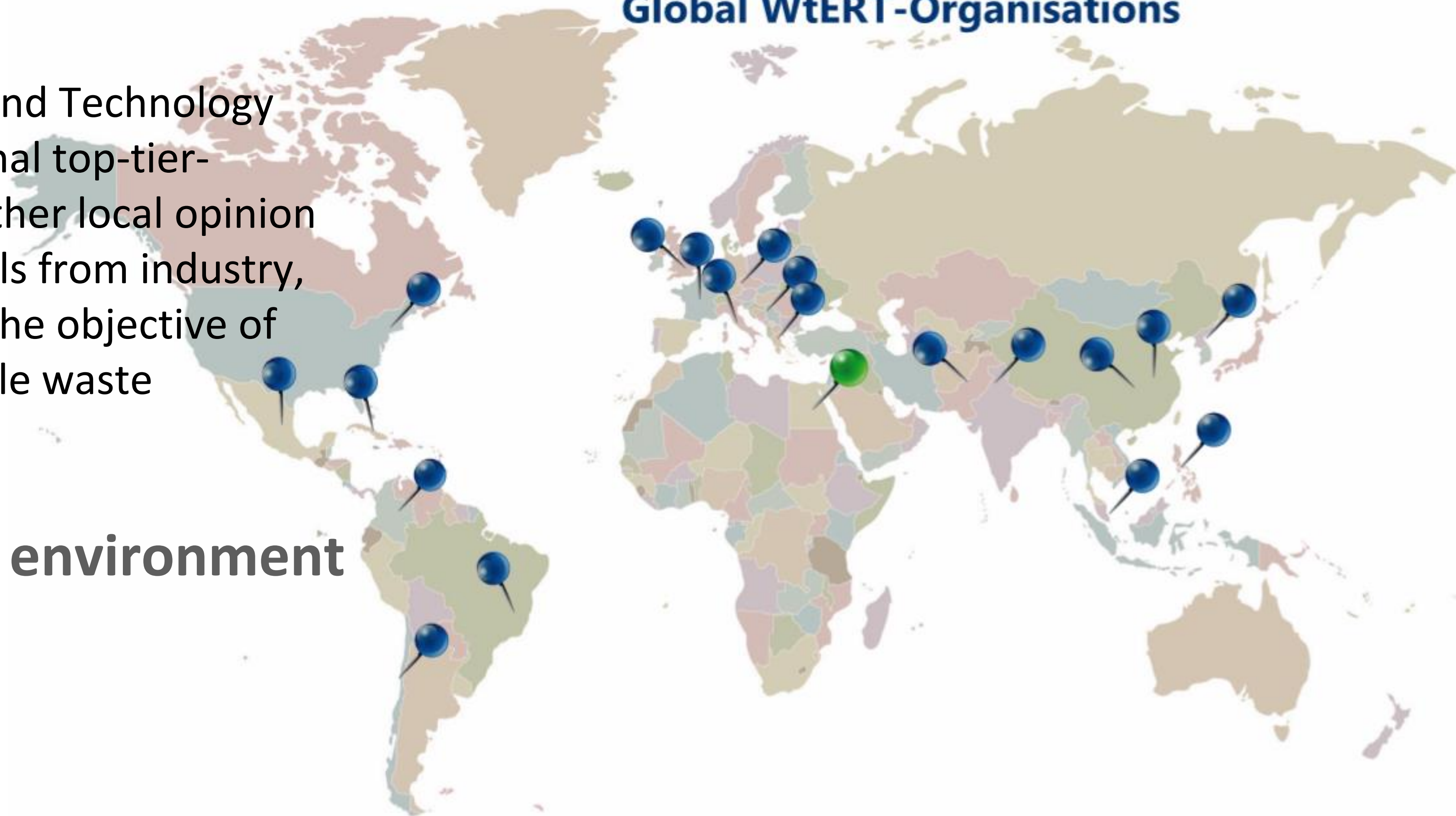
Identity – WtERT is on it's way to a co-creative, agile and transformative working community:

The Waste-to-Energy Research and Technology Council (WtERT) is an international top-tier-technical group that brings together local opinion leaders, experts and professionals from industry, science and municipalities with the objective of advancing the goals of sustainable waste management on a global scale.

WtERT acts ...

... for the benefit of our environment and humanity.

Global WtERT-Organisations



Circular ~~Economy~~

Circular Society

The change from „Circular Economy“ to „Circular Society“ is a societal approach, not just an economic one.

New forms of the production of knowledge and the participatory development of solutions are more likely to create promising approaches for a transition to the circular society than old ones.

Environment

Circular Society

Circular
Economy



Vision

We all live in a circular society
where nothing is wasted!

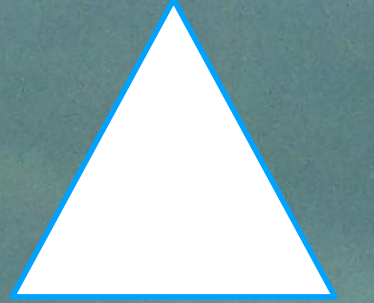
Mission

In the WtERT Community we
enhance the ability to
understand, witness and raise
awareness of existing
problems and solutions in the
field of waste and resource
management.

We stimulate a significant
change in communication of
solid waste management - for
the benefit of our environ-
ment and humanity.

Values

Open Source!
Open Source!
Open Source!



Most likely, there is already
a solution to the problem -
somewhere in the world.

Imagine the potential of a
collective global brain
concentrating on sustainable
waste management!

Firstly environment -
secondly economic interests!



Emergence

Interaction between experts and participants in a complex network is generating emergent solutions...

>>> See WtERT **Case Studies** about Material AND Energy Recovery, Techniques as Solutions, Tax Instruments AND Political Solutions.

>>> Finally, this Portfolio helps to Ensure the Mitigation of Greenhouse Gas (GHG) Emissions.

Ensemble pour une Gestion Intégrée et Durable des Déchets en Tunisie (EGIDD)

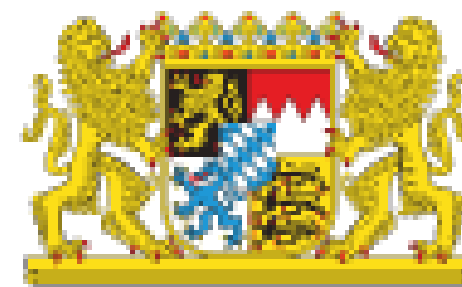
Sustainable Waste Management for Tunisia

Partner:



Municipalities of Siliana, Tabarka and
Douar Hicher

Funded by the State of Bavaria



Gestion durable des déchets et économie circulaire en Tunisie II

Work Packages (WP)

■ Decentralized collection close to households

- Cleanness near households

■ Optimized waste transportation

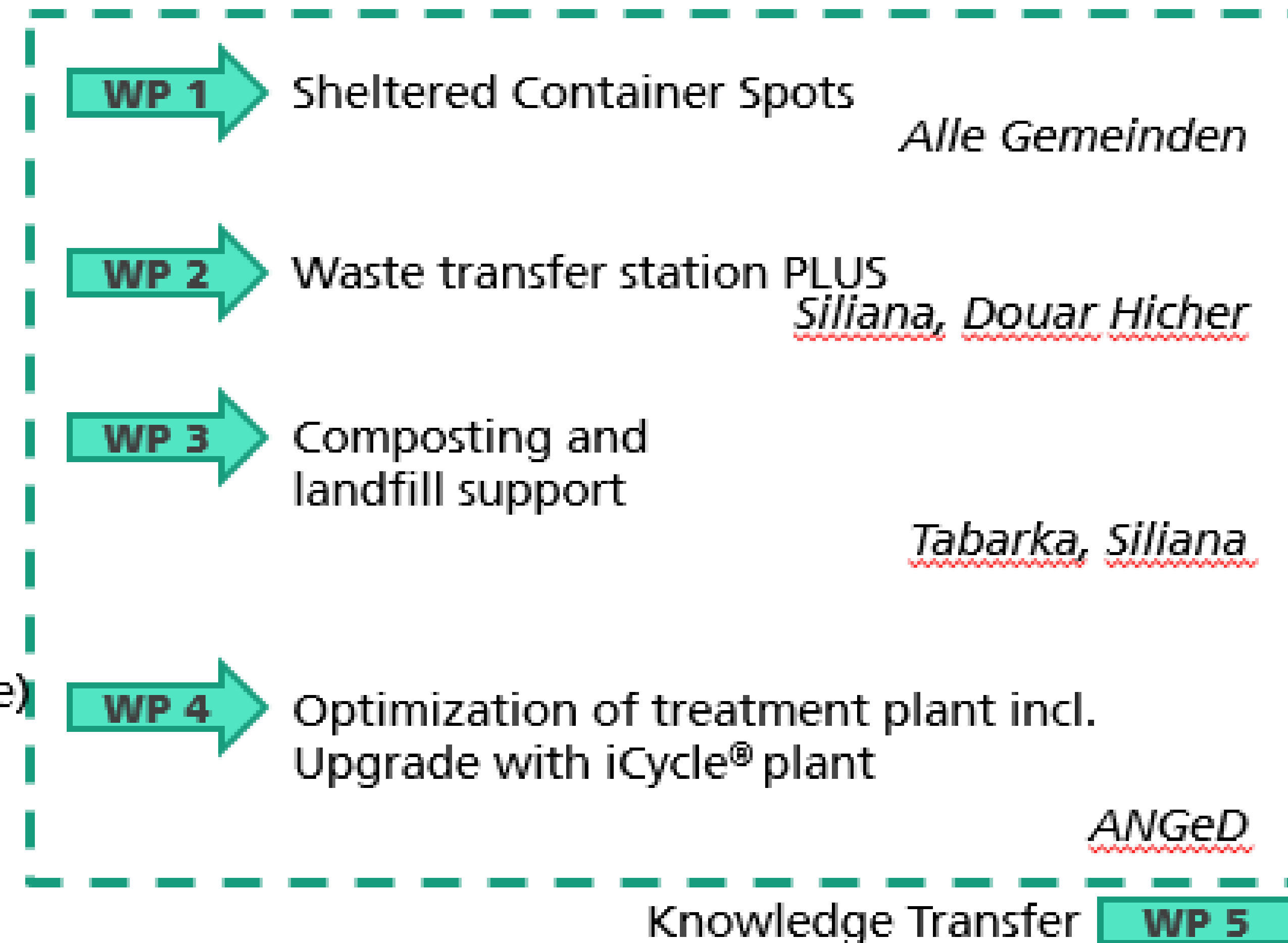
- Improvement of waste collection (>99 %)

■ Separation of organic waste from municipal waste

- Lowered and simplified landfilling
- Fertilizer / soil for farmers

■ Separate collection of E-Waste (from municipal waste)

- Decontamination of municipal waste
- Recovery of valuable materials



Workpackage 1: Île de propreté

The Problem

- Broken waste bins
- Irregular garbage collection
- Polluted areas

The Challenge

....



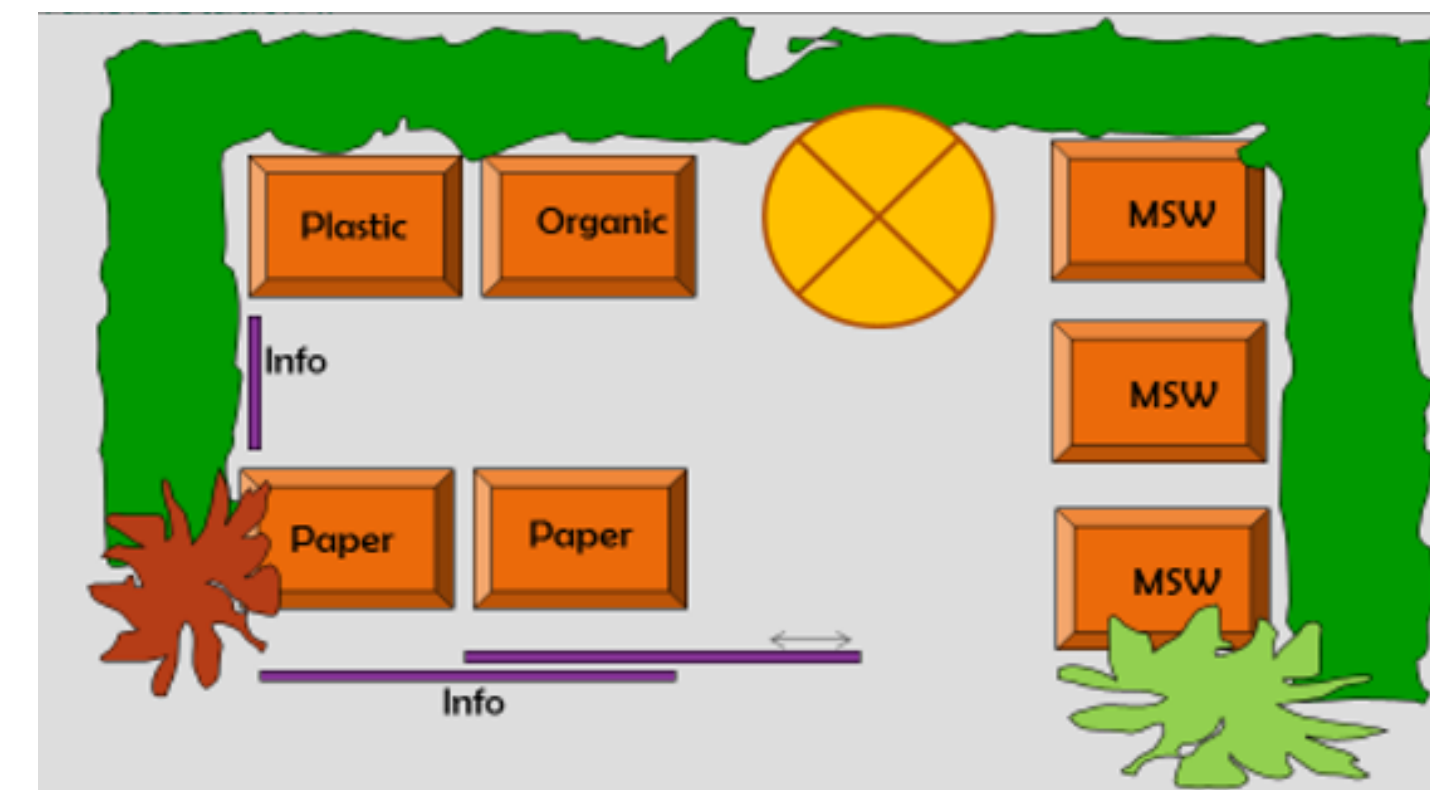
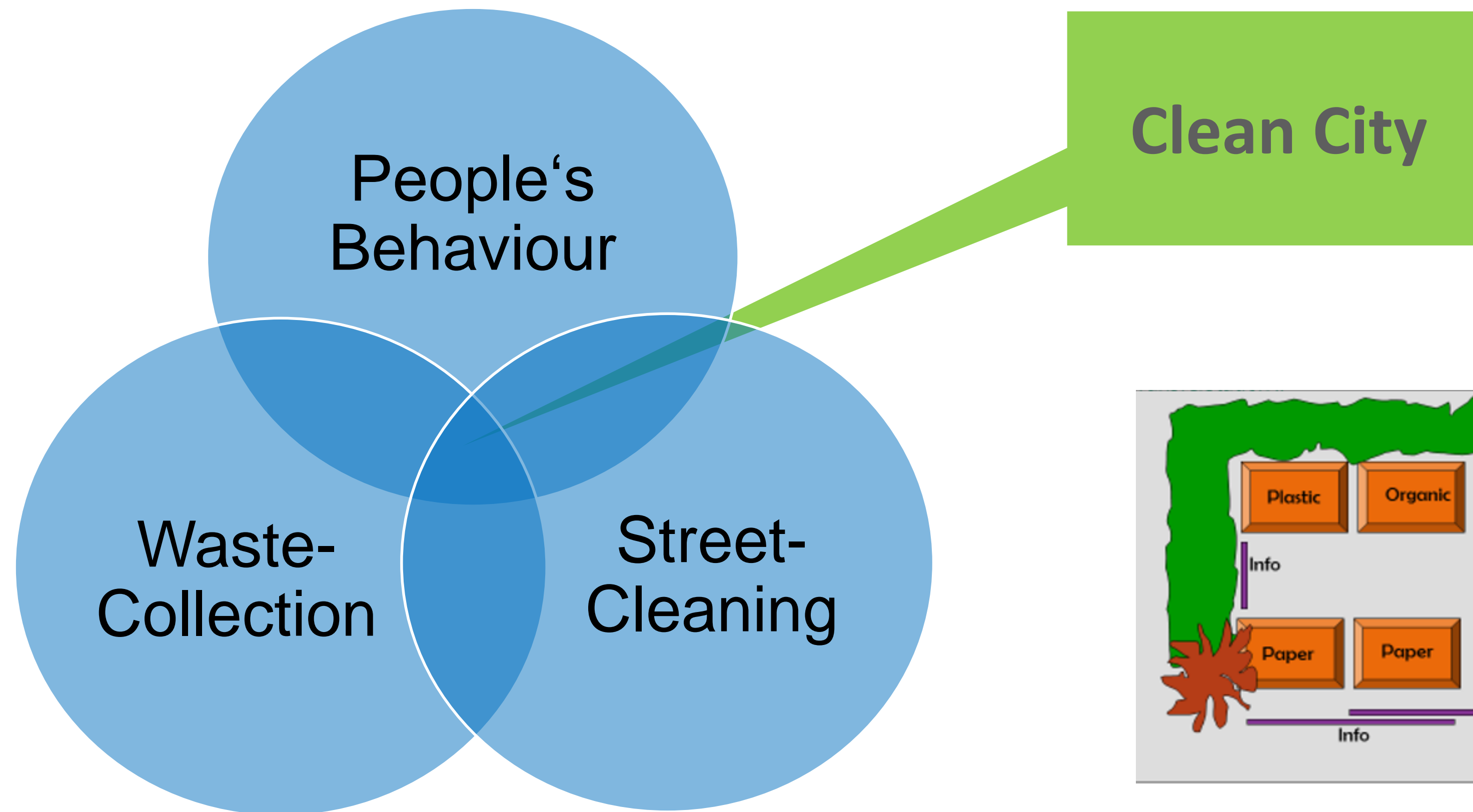
Workpackage 1 : Île de propreté

The Challenge

- Friendly people who keep their area clean
- Eager collectors of recyclables (Barbechas)
- Newly elected administration



Île de propreté – the Idea



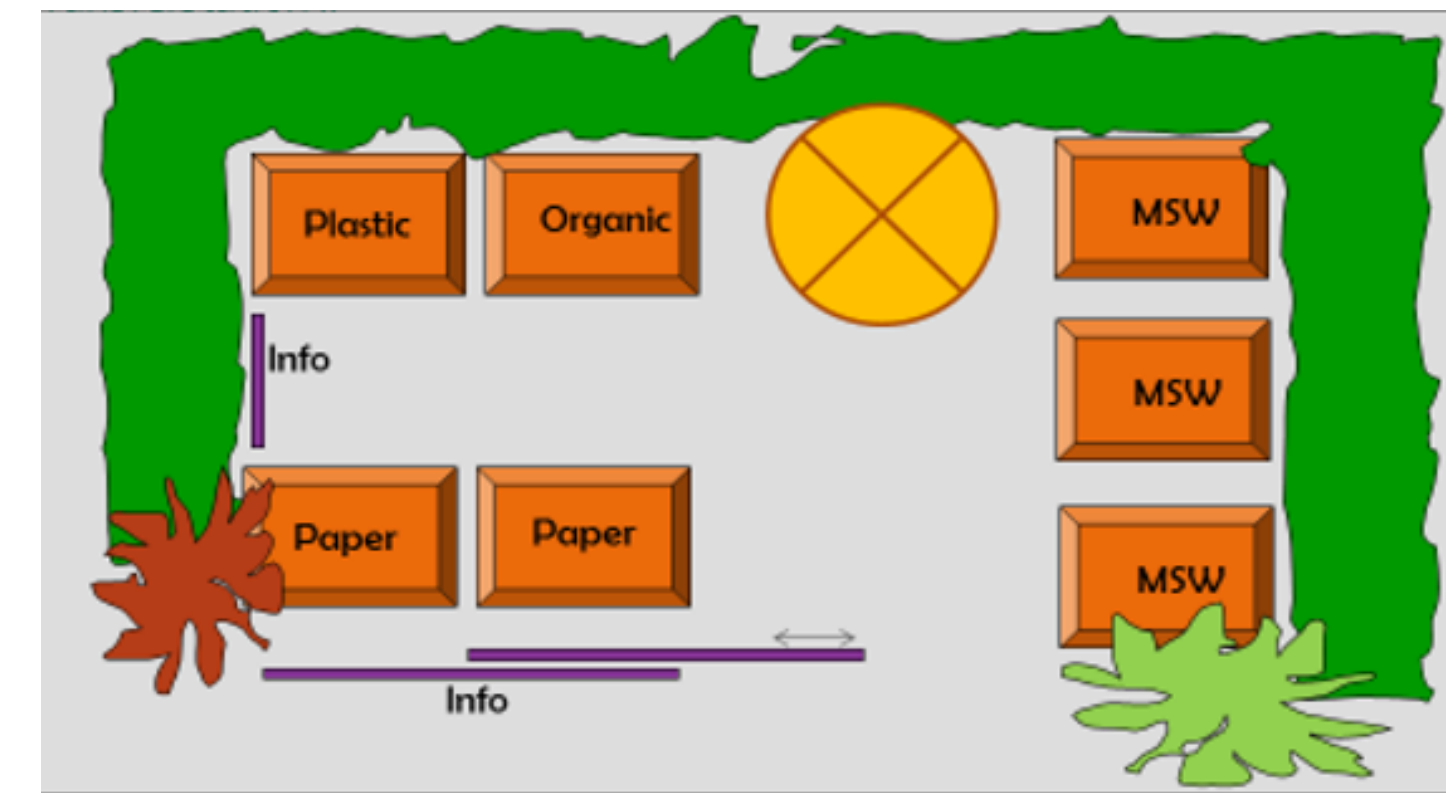
Île de propreté – the Place

Aim

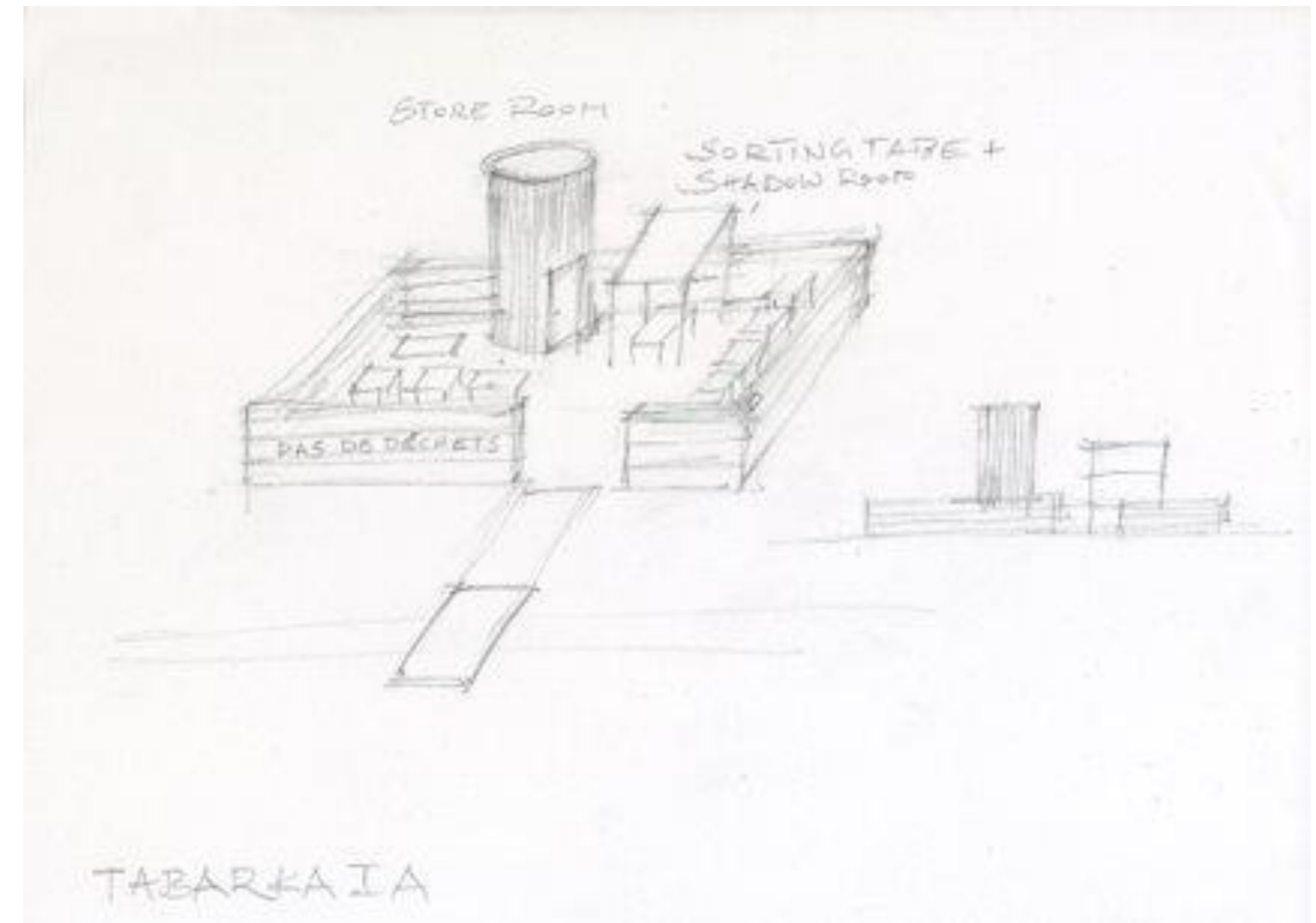
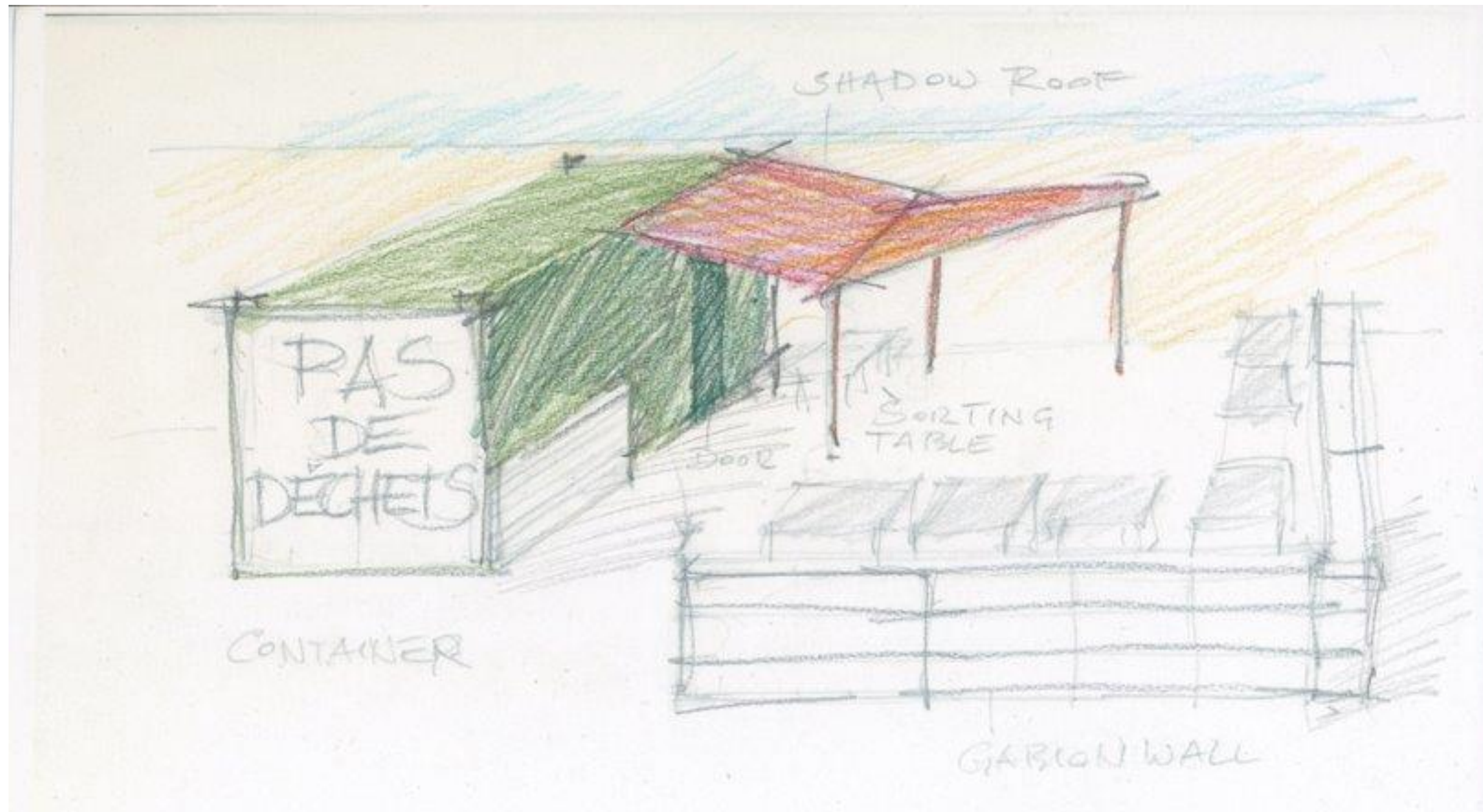
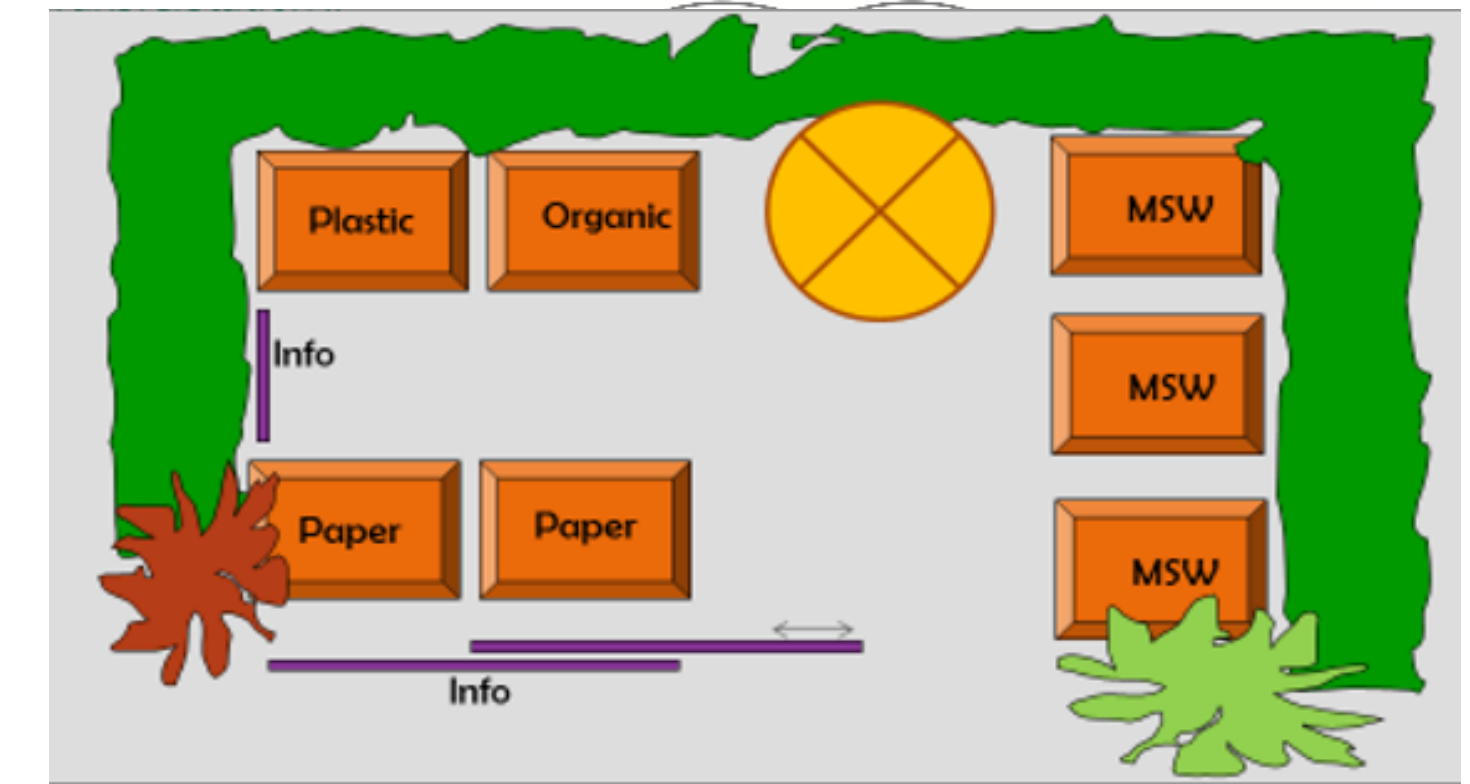
- Place where a new awareness of waste and valuables can be established
- Center for collecting will become a center for communication
- Low cost but fascinating area

Materials

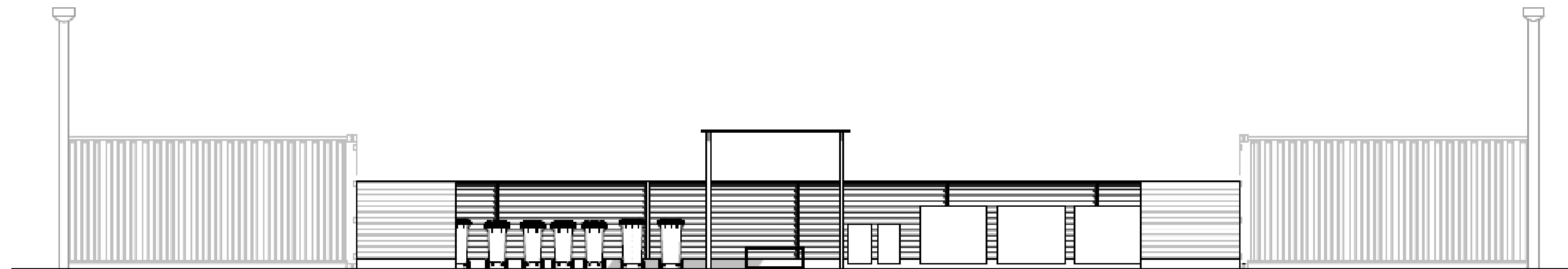
- Used and old material for a new idea
- A storage for valuables,
- Old wood and metal



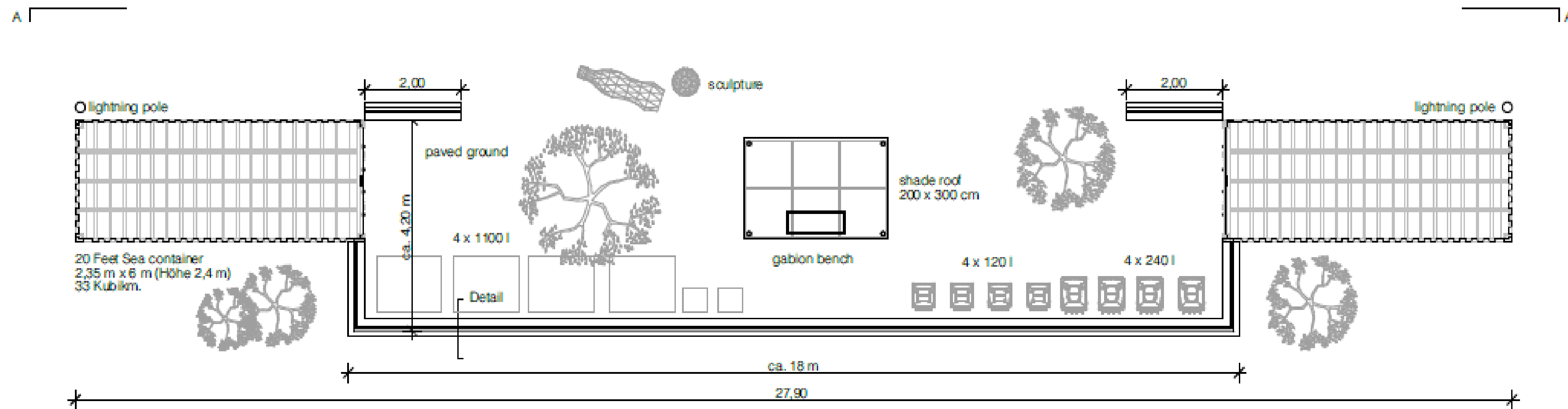
Île de propreté – the Design first ideas



Île de propreté – Design Siliana 1



view A-A
1:100



Site plan
1:100

Île de propreté – the Logo

The process to develop a Logo / a Sign is very complicated

- Who is involved?
- Should it be for one City or for Tunisia?



Île de propreté – Barbéchas tasks

- Keeps the spot and surrounding clean
- Informs the inhabitants regarding waste sorting and collection
- Ensures that the goods are picked up regularly
- Collects information about the catchment area of the spot and the waste composition
- Keeps contact with the contact person of the municipality



Île de propreté – Inauguration



Île de propreté – Realization



Île de propreté – Inauguration



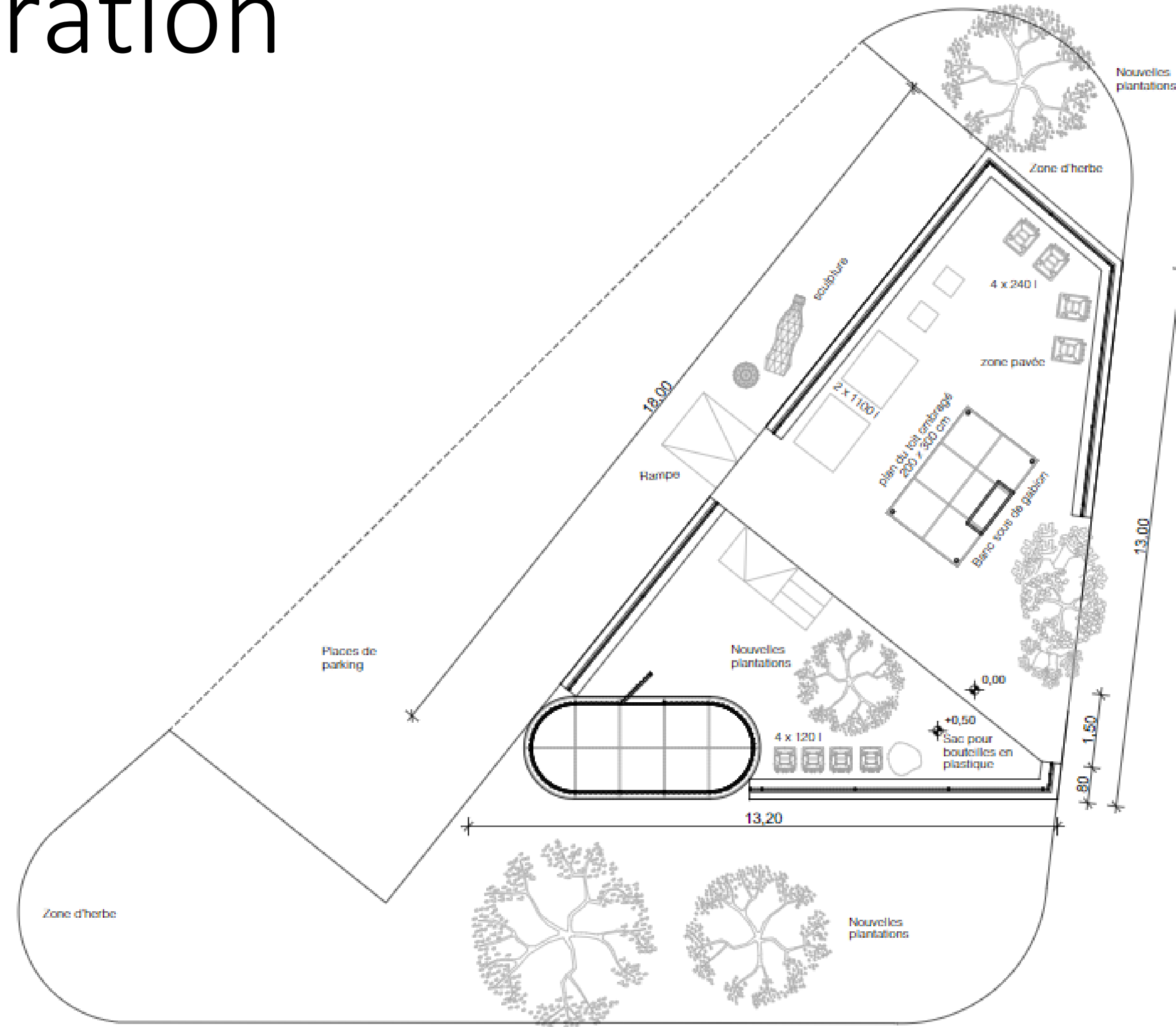
Ile de propreté – People in Siliana



Île de propreté – People in Siliana



Île de propreté – Tabarka 1 in Preparation

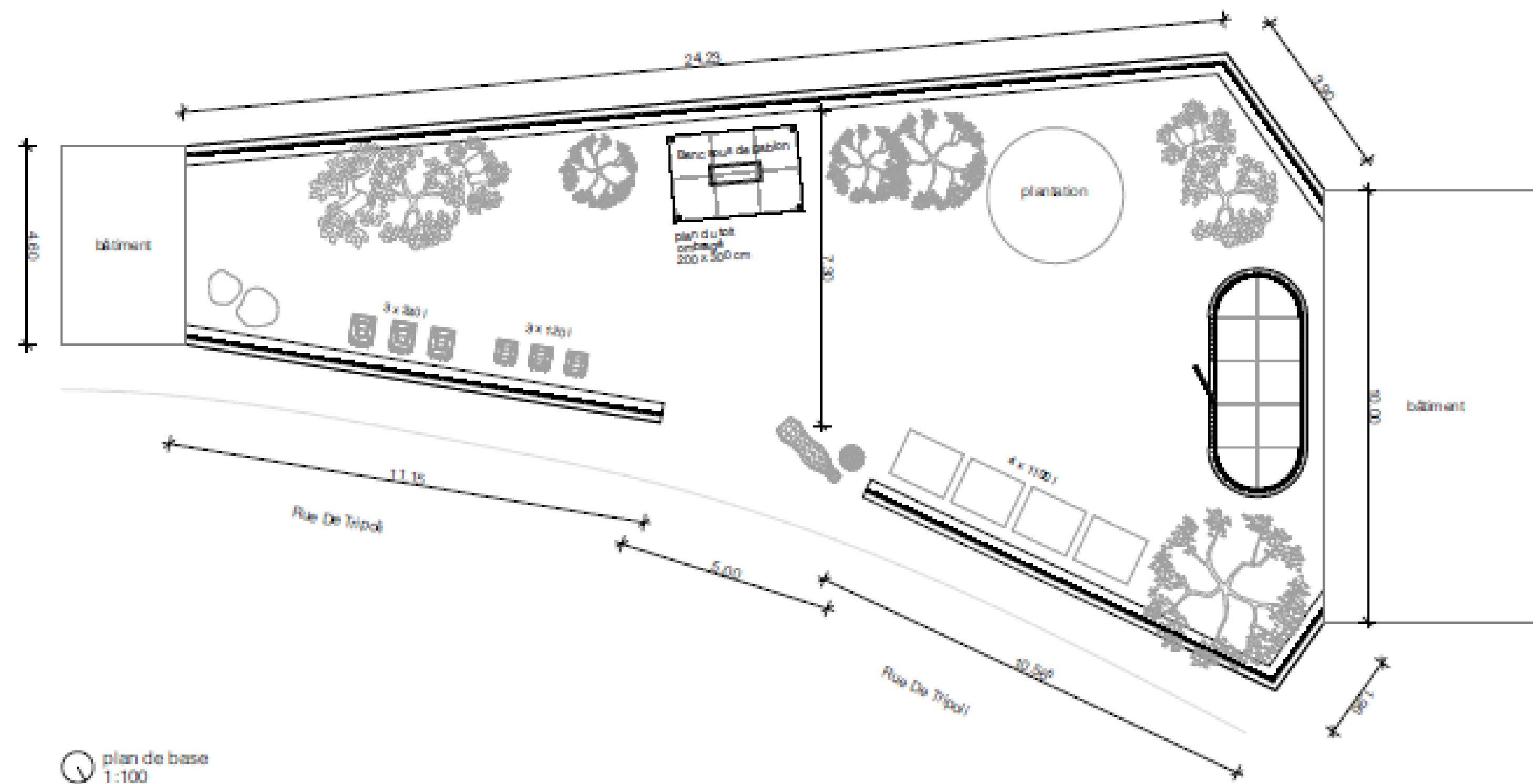


plan du site
1:100



Île de propriété – Douar Hicher 1

in Preparation



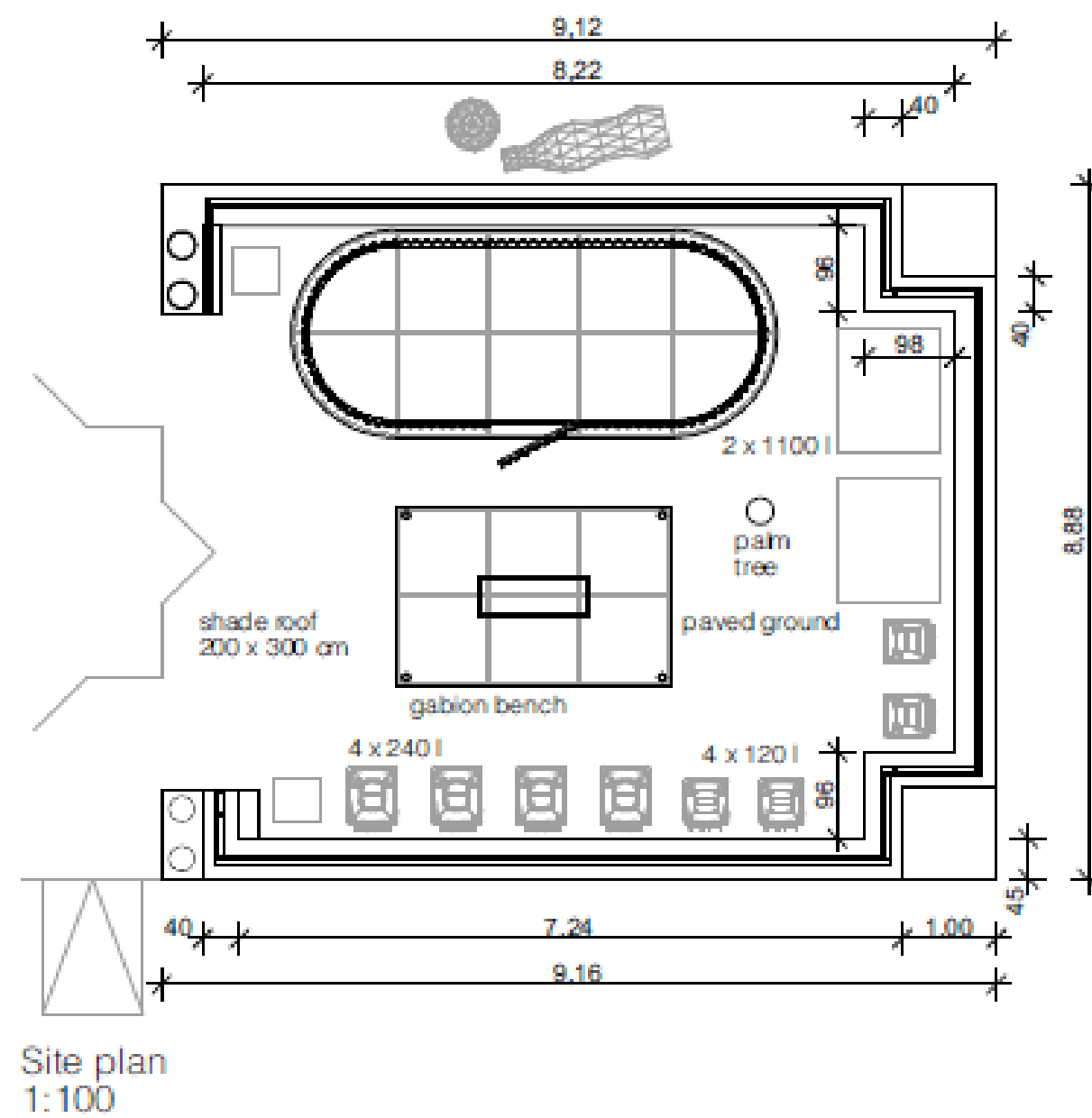
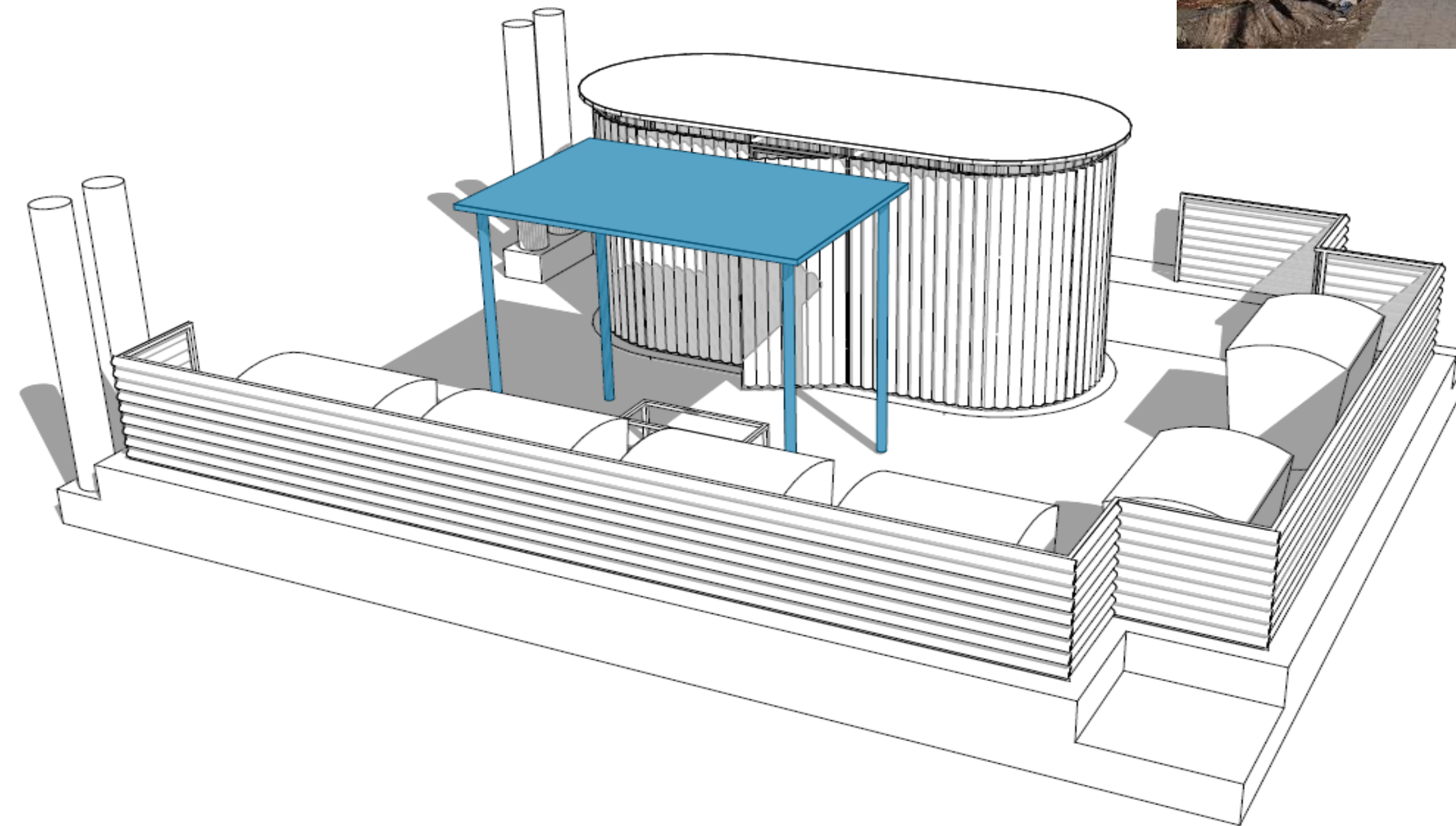
All Design: Markus Heinsdorff for WtERT Germany GmbH

Île de propriété – Siliana 2

Phase 3



Marché Municipal



Werner Bauer: bauer@wtert.net

Workpackage 5: Communication



Case Study



Municipality of Siliana

On its Way to a Cleaner City, Siliana Begins Operation of Tunisia's First "île de propreté"










Raising awareness for waste separation and environment among the population is the goal of our...

Click for more
information:

<https://www.wtert.net/Tunisia.html>

... and see details from
Case Study

... and get contact to experts
from the authorities

 <p>WtERT Germany</p> <p>In Memory of Chedlia Adouani</p> <p>Courageous, persevering and full of joie de vivre</p>	 <p>Albiaaews</p> <p>Mr. WERNER P. BAUER, Vice President GWC: The EGIDD Project is a Behaviour Change for Integrated Waste Management</p> <p>Statement by Mr. WERNER P. BAUER, Vice President GWC, and Executive...</p>	 <p>Case Study</p> <p>Municipality of Siliana</p> <p>On its Way to a Cleaner City, Siliana Begins Operation of Tunisia's First "île de propreté"</p> <p>Raising awareness for waste separation and environment among the population is the goal of our aesthetic and sheltered...</p>	<p>Experts to topic</p> <p>Professor Mohammed Khalid Riffi Temsamani Abdelmalek Essaâdi University, Mediterranean Climate House Foundation</p> <p>Chadleya Adouani / Deceased Douar Hicher</p> <p>Saida Zemzemi Journalist and Communication Expert at Albiaaews</p> <p>View all Experts...</p>
 <p>Case Study</p> <p>ANGed - Agence Nationale de Gestion des Déchets</p> <p>Transfer Center of Kram, Tunisia</p> <p>Transfer stations are of particular importance for the development towards sustainable waste management, as they are a precondition for closing and rehabilitating local dumps, which are...</p>	 <p>Case Study</p> <p>ANGed - Agence Nationale de Gestion des Déchets</p> <p>Small Transfer Center of Bardo, Tunisia</p> <p>Transfer stations are of particular importance for the development towards sustainable waste management, as they are a precondition for closing and...</p>	<p>Monitoring of composting process parameters from kitchen waste and green waste generated in tourism destinations: A case study of Tunisia</p> <p>Wassim Chaabane, Manel Selmi, Safwat Hemidat, Nour Chaher, Abdallah Nassour, Michael Nelles</p> <p>Despite the organic fraction representing 68% of the total waste generated (2.8 million tons produced in 2017), only 1-2% of municipal waste is currently biologically treated in Tunisia.</p>	<p>Optimization of food and green waste mixture ratios during the co-composting operation</p> <p>Nour El Houda Chaher*, Abdallah Nassour, Michael Nelles, Moktar Hamdi</p> <p>The organic fraction of municipal solid waste (OFMSW) reached currently 68% of the total waste generated in Tunisia. Thus, a biological treatment is needed. Composting is considered as an effective and sustainable technology from the perspectives of volume reduction, stabilization and releasing the pressure on landfills as well as making a valuable end-product.</p>
 <p>WtERT Germany</p> <p>WtERT-Germany's Activities in 2018</p> <p>This annual report summarizes WtERT-Germany's activities like the</p>	 <p>WtERT Germany</p> <p>Tunisian delegation visited Bavarian WtE-Plants</p> <p>A tunisian delegation came to Munich</p>	 <p>Fraunhofer Umsicht</p> <p>A model region for waste management in Tunisia</p> <p>In this project, which is being worked on by Fraunhofer Umsicht, Sulzbach,</p>	 <p>© TK-Verlag - Fachverlag für Kreislaufwirtschaft, Waste Management, Volume 6 (September 2016)</p> <p>Development of Waste Management in the Arab Region</p>