



Prevention as part of integrated MSW management

Strategic & Economic considerations





What is prevention?

According to the EU Waste Framework Directive, prevention covers measures taken before a substance, material or product has become waste that reduces:

1. The **quantity of waste**, including through the re-use of products or the extension of the life span of products;
2. The **adverse impacts of the generated waste** on the environment and human health; or
3. The content of harmful substances in materials and products



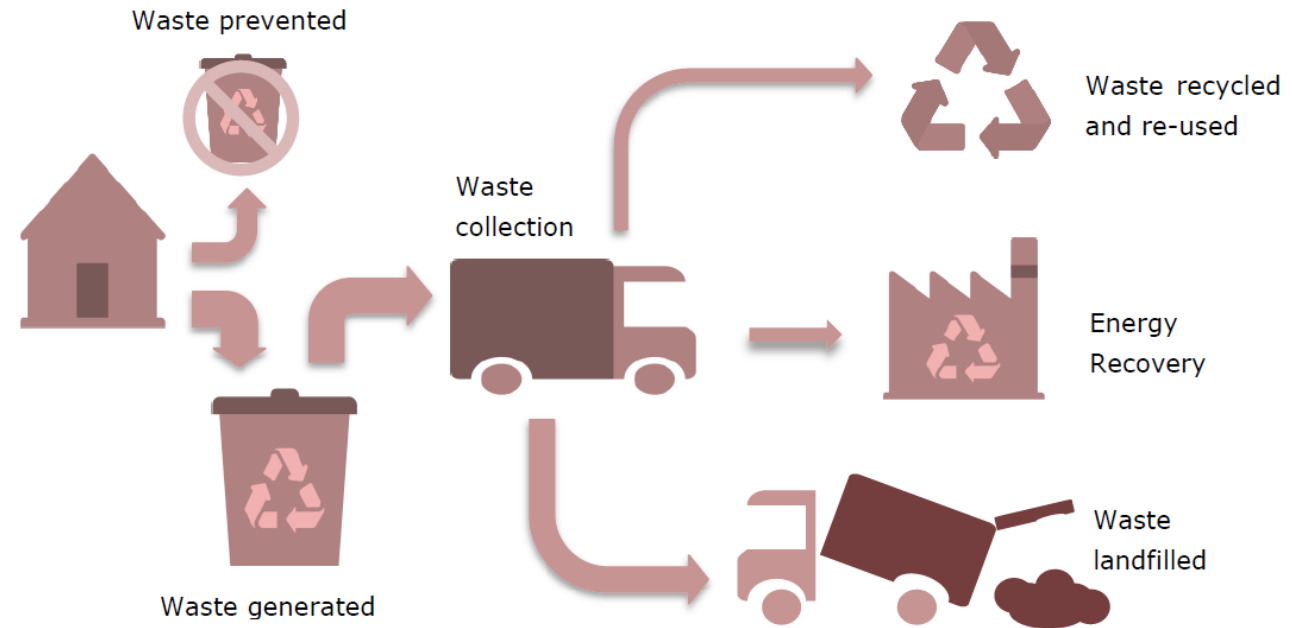
✓ Reduce

✓ Sort



Prevention as part of integrated MSW management

« a **strategic approach** of SW management covering **all sources and all aspects** such as generation, separation, transfer, sorting, treatment, recuperation, and elimination in an integrated manner and with a peculiar focus on **maximising efficiency in usage of resources** »



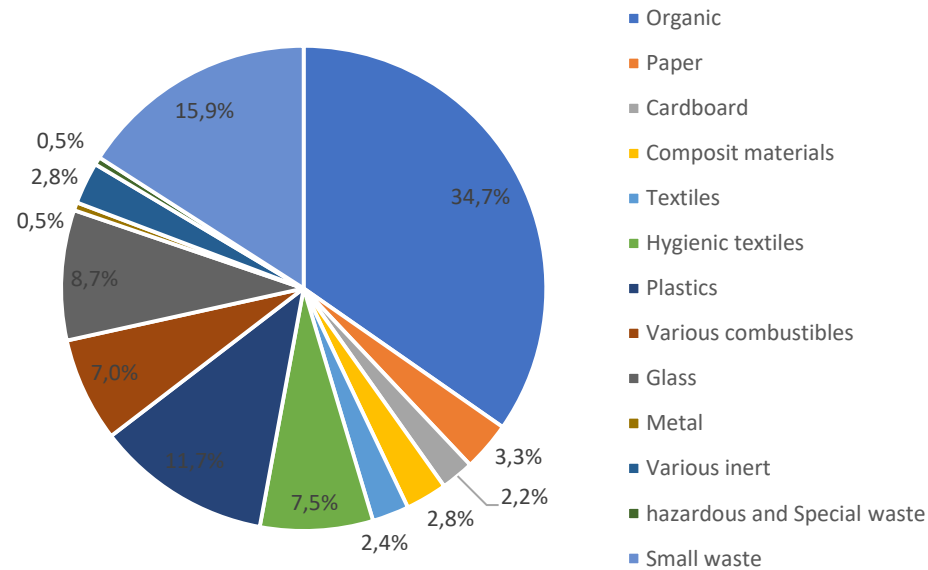


Key words:

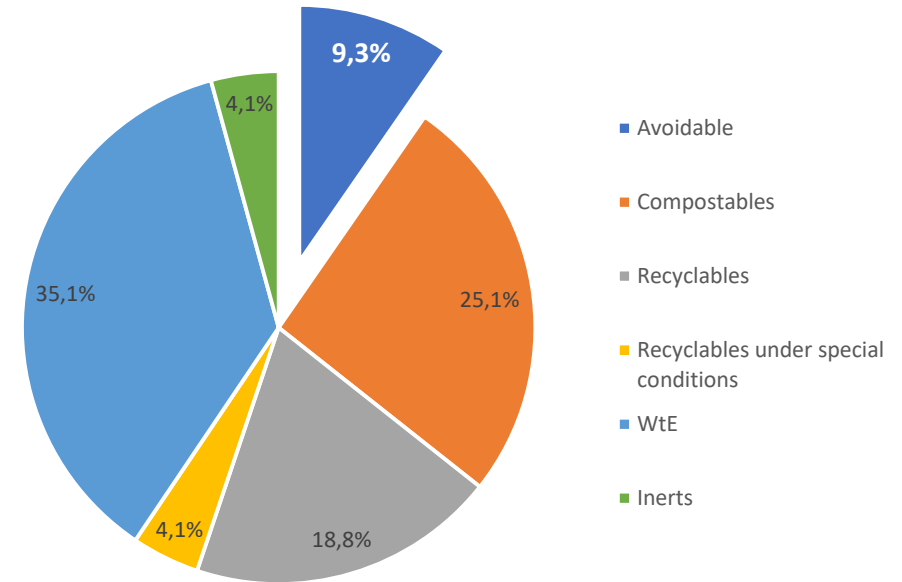
- ✓ Dialogue between Municipal Authorities <-> Infrastructure Operator <-> CBO
- ✓ Up-to-date knowledge of waste streams and waste generators

*Prevention
planning: how
to make it fit
the puzzle?*

MSW Morphology by materials



Waste morphology based on possible usage



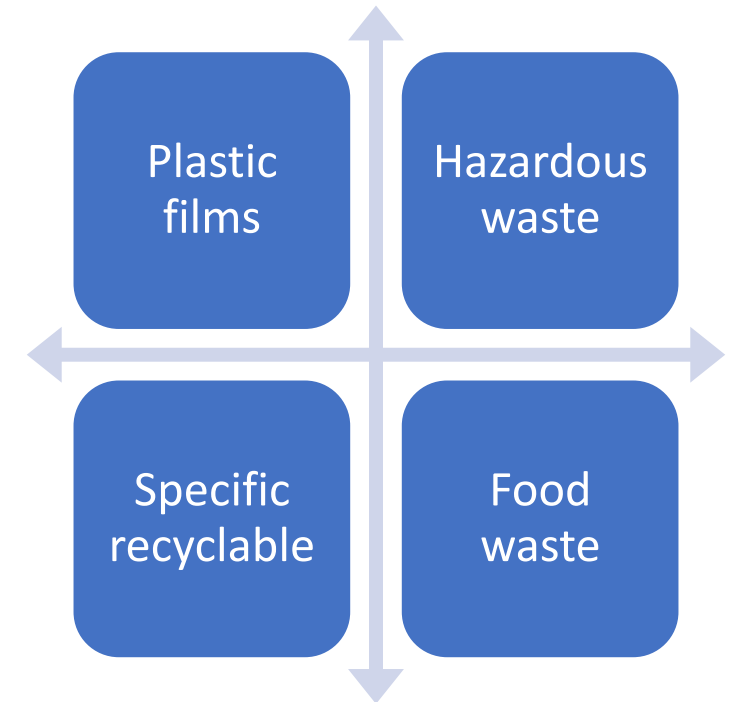


Knowledge of avoidable / compostable / recyclable potential allows to:

- ✓ Set global waste reduction and sorting targets
- ✓ Set targets by stream
- ✓ Determine specific target audiences
 - ✓ Commercial entities
 - ✓ Inhabitants of a given district
 - ✓ People living in private houses
- ✓ Design concrete **coordinated** actions & allocate resources



Importance to include the issue of waste-pickers in the prevention plan & wider waste management plan



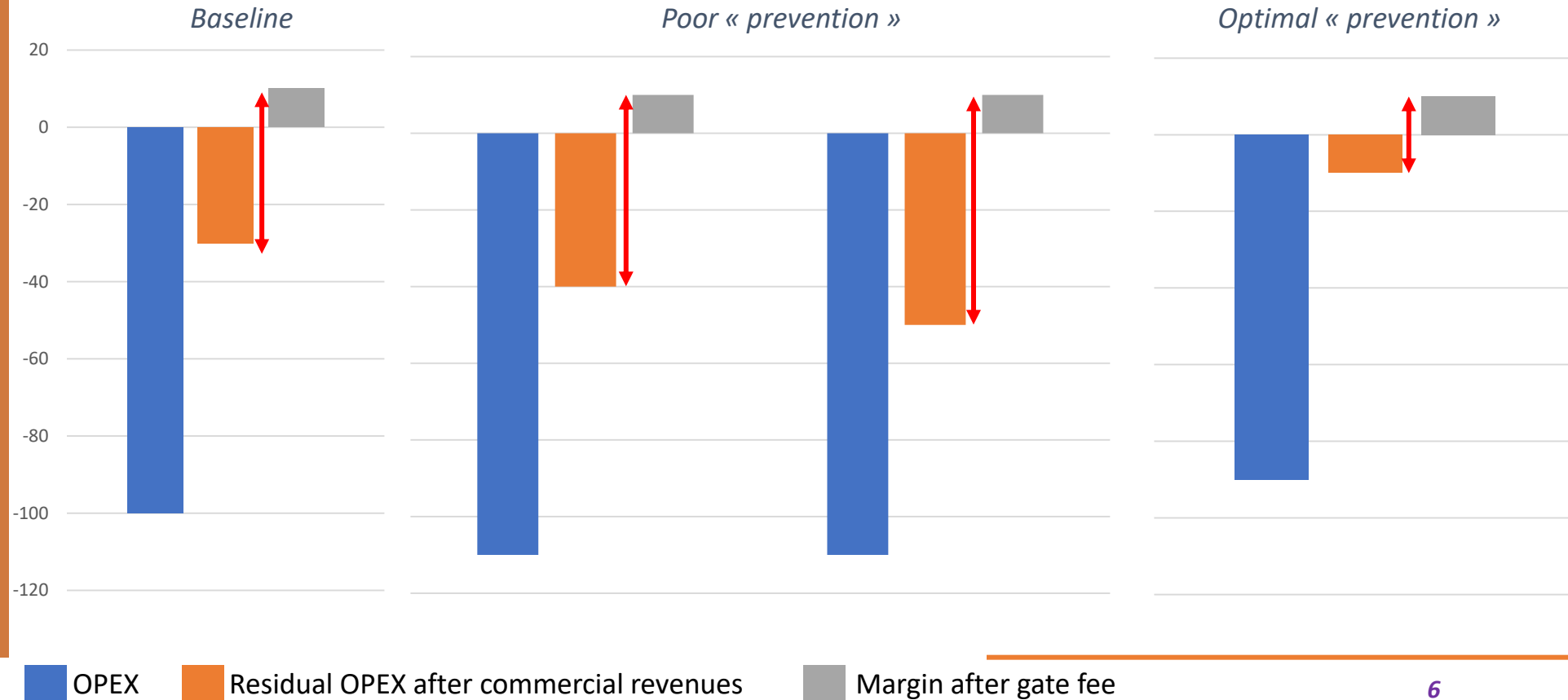
*What does the
« usage
potential » tell
you?*



Hypothesis : A city agrees with a waste treatment facility operator on a remuneration that enables stable profit margin of the company.

What happens in different scenarios of inefficient Vs efficient sorting?

The economic motivation behind prevention





Thank you!

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