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Business case development tool

Developed by the City of Apeldoorn

Short Introduction

The City of Apeldoorn seeks to develop and pilot valorisation options for bio-waste from public spaces such as leaves, grass, and prunings and involve key stakeholders in this process. During the preparation phase of Cityloops (Months 1-18) promising valorisation options were selected, based on several co-dependent activities:

- Description of a business model from a cities viewpoint
- Description of a business model from entrepreneurs viewpoint
- Overview of technical possibilities starting from bio-waste
- Overview of biobased industries and initiatives interested in using bio-waste
- Stakeholder engagement between cities, citizens and entrepreneurs
- Description of circular city selection criteria

Output of the demonstration phase (Months 19-48) will be to which extent these selected valorisation options are techno-economically, socially and environmentally sound business cases.

The process is described in a report. During the demonstration phase the obtained knowledge will be used to adapt the business case development tool.

Target groups

- Local Governments

Keywords

- #Guidance
- #Recover
- #Recycle
- Upcycling
- Connecting Apeldoorn to industry

Format

- Report



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Deployment

The report will be used to evaluate the different valorisation options in relation to the business models and circular city criteria defined during the selection process.

Replication

The transition towards a circular city with regard to bio-waste is enabled by setting up techno-economically, socially and environmentally sound business cases. The process of selecting valorisation routes by the City of Apeldoorn could be used as an example for other cities that are looking into opportunities to upcycle bio-waste.

Methods

The selection process combined information and knowledge from the City of Apeldoorn and Wageningen Research. Business models were selected from literature and adapted from previous experience in setting up valorisation routes from biomass. Specific attention was given to obtaining information from biomass stakeholders.

Barriers:

The focus on circular cities implies that relatively small amounts of biomass are available. Most stakeholders, owners of biomass and industries are focusing on larger scale opportunities. Specifically the economic viability of valorisation routes is a challenge on small scale.

Additional Information

For example:

- *Contact points*
- *Next steps*
- *References*



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