



## Interreg 2-Seas New Energy and Resources from Urban Sanitation

Project Acronym: NEREUS

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Collaborative project

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### NEREUS Life Cycle Analysis

### Work Package 1 - Deliverable 1.2.3

Lead Beneficiary: LP

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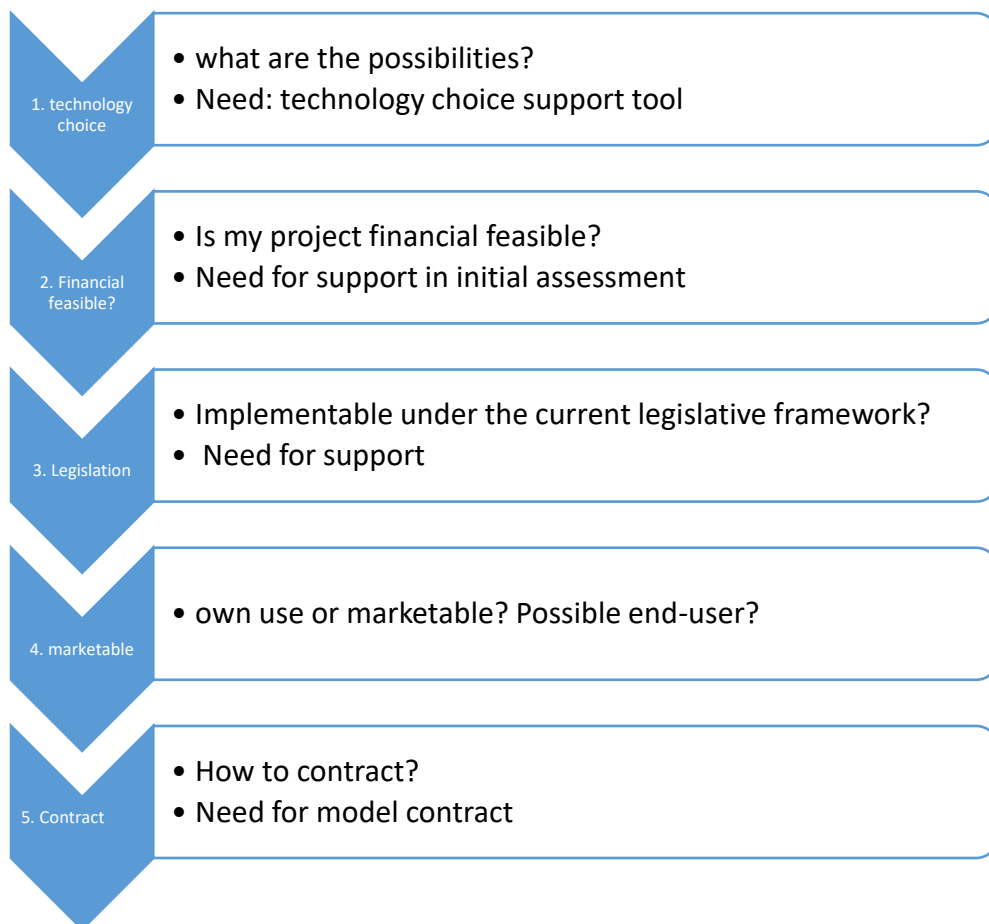
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## FINAL ROADMAP

Very often we see that many parties are interested in recovering water, energy or nutrients in their projects, but don't know how to start.

The integration of green in residential projects, for example, is also on the increase. Greenery also needs water. Choosing the right water source for the right application, choosing the right technology, questions about what is legally allowed, .... All these issues often put a brake on going beyond the traditional choices. Therefore, within the NEREUS project, a step-by-step plan and tools have been developed to remove these barriers and to stimulate the rollout of sustainable projects with attention to technologies that use water, energy and nutrient recovery.



## How do I start!?

Map out the broad outlines of your project such as what is the project scope (number of IP, water users, etc.). Think about what you want to do. Do you want to go for recovery? If so, on which topics? Water, energy, nutrients, etc. . Are there potential customers?

### 1. Define your project

- Do you want to recover water, energy, nutrients ...?
- Own reuse or potential customers!?
- What are the quality standards?
- Volumes? Different water streams?
- ...

### 2. Technology choice

what are criteria to be considered? And how heavily do they weigh on a final decision?

Criteria:

- Economic
- Environmental
- Social
- Technical

Decision-makers can use the information from Step 1 to complete the Decision Support Tool (DST) to arrive at a technological option. Based on the outcome, the decision maker can select a few scenarios and evaluate the DST outcome to determine the most appropriate technological scenario.

<https://www.nereus-project.eu/tools/> > Decision Support Tool

How to use the tool? – check the manual!

### 3. Financial feasibility

Before elaborating on projects, it is important to get a first insight into the project feasibility.

Answers are sought to the following questions:

- Is the business case feasible?
- What drives the business case?
- What needs to be optimized to achieve a profitable outcome?

To help decision makers in this analysis, a financial feasibility tool was developed together with project partner DuCoop and an external consulting firm Rebel Group.

<https://www.nereus-project.eu/tools/> > Financial feasibility tool

How to use the tool? Check the online tutorial!

#### 4. End-users for the recovered products?

One of the issues indicated as a bottleneck to engage in symbiosis projects (= projects where another party is a buyer of the recovered products) was the lack of model contracts.

Questions?

- What should be included in such an agreement?
- Duration of the cooperation?
- What with the costs?
- Who is responsible for application of permits?
- what to do in case one of the parties goes bankrupt or ceases operations?
- ....

Instead of each party figuring out the basis on its own, the NEREUS Partnership worked on 'Model Agreements' for a number of possible collaborations. These can serve as a legal starting point for exchanging water streams.

These framework agreements are perfectly modular and mainly intended to provide insight into the matters that parties should start thinking about before entering into a blind contract with each other.

3 model agreements for 3 types of cooperation (in 3 languages):

- Rainwater exchange
- Effluent Business to Business
- Effluent Business to Agriculture

<https://www.nereus-project.eu/tools/> > Model Agreements

How to use the tool? Check the online tutorial!

#### 5. Detected barriers?

The legislative framework is not yet always adapted or sufficiently clear. If there are questions or ambiguities here, we recommend open communication with the local and/or regional competent authorities. They, too, want to think along to give sustainable projects more chances in the future.

## 6. Communicate about model projects

Inspire others, help others progress by sharing your experiences. Communication of good examples is very important to enable the roll-out of sustainable projects.

As inspiration, please discover the NEREUS demos via the project videos > [www.nereus-project.eu](http://www.nereus-project.eu)

**Are there any questions, comments, suggestions, barriers you would like to raise, experiences with tools you would like to share with us? Please do! Please contact Veerle Depuydt as your first point of contact; [vd@vlakwa.be](mailto:vd@vlakwa.be).**

**We will look who can help you further within the NEREUS partnership.**