



BEST PRACTICES REPORT

# Circular Bridge Operation Central: The Swettehûs

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# CircLocal Good Practice

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## 2. Organization Information

Country The Netherlands

Region Friesland

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Organisation Name Gemeente Leeuwarden

## 3. Organisation in charge of the good practice

Is your organisation the main institution in charge of this good practice? No

Name Organisation Province of Fryslân

If no, please tell us who is the main institution in charge Country The Netherlands

Region Friesland

City -

4. General Information

Practice Image



Title of the practice

Circular Bridge Operation Central: The Swettehûs

Geographical scope of the good practice\*

Local / regional (city of Leeuwarden, province of Friesland)

5. Good Practice Detailed Information

Short summary of the practice

As a circular icon, 'It Swettehûs' is a bridge control centre in construction from which 40 bridges in Fryslân are operated remotely. It Swettehûs is innovative, provides a healthy work environment, is energy neutral, and is being realised with circular materials.

Detailed information on the practice

A new Bridge Control Centre and Support Centre for Asset Management needed to be realised to operate around 40 of the many bridges in the province of Friesland. The provincial government required this new building to be a circular icon, providing a healthy and green environment and build from only circular materials and in a energy neutral way.

Ambitions for this building have been incorporated in a program of requirements with specific goals, which include for instance:

- At least 40% of the applied materials (the monetary value) is recycled (used) material
- At least 10% (of the monetary value) of the other materials is biodegradable
- All materials are recorded in a so-called ‘material passport’ with at least the following information: properties, origin, connections and the degree of reuse
- It Swettehûs has to be measurably circular

After conducting a marketing consultation with engineering and building companies to confirm the feasibility of these ambitions, the tender process was started. This process had two phases:

- Setting up a construction team that developed the design of the building
- Setting up an engineering team, that will build and maintain the building

As of April 2021, the building is under (circular) construction. The Swettehûs will likely open in November 2021.

Resources needed	Approximately €4.000.000,-
Timescale (start/end date)	Development started in 2016, construction will last between November 2020 – November 2021.
Evidence of success (results achieved)	Although still in construction, it is already considered the most circular building in the province of Friesland.
Challenges encountered (optional)	<ul style="list-style-type: none"> <li>• Developing material-driven design: what circular materials are available in our region?</li> <li>• Dealing with regulation that is not adjusted to circular building yet, for instance safety regulations regarding the use of wood.</li> </ul>
Potential for learning or transfer	So far, a couple of crucial success factors have been identified, which can be applied to other circular building projects across Europe:

- Apply a mix of hard and soft criteria in the tender and selection process.
- Maintain a clear division of roles between client and contractor; construction team for exploration and renewal
- Regarding partnerships: keep talking, also (and especially) in the realization phase.

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Further information      [www.fryslan.frl/swettehus](http://www.fryslan.frl/swettehus)

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Keywords related to your practice      Circular, materials, bridge, energy neutral, waterways, reuse, biobased