



Studio of Circular Economy

»Working together for a **green**, **competitive** and **inclusive** Europe«

January 2023

CIRCULAR ECONOMY IN PRACTICE (studioKroG INVESTMENT)

The trend of container construction, based on the use of container modules and their transformation into buildings, is gaining in popularity in the world and also in our country. Thus, also through the Studio KROG project - Studio of Circular Economy, new constructions are being created in Rogaška Slatina and Slovenske Konjice which are addressing sustainability and reuse without virgin materials. Construction with this approach follows the principles of the circular economy, has positive effects on the environment and is significantly more affordable than conventional approaches.

As part of the Studio of Circular Economy project, the activities of the first and second phases of the INVESTMENT work package were carried out from August 2022 to January 2023.

1. **PHASE 1 SITE PREPARATION AND POINT FOUNDATION** consisted of site preparation at both locations (Rogaška Slatina and Slovenske Konjice), the installation of point foundations and the actual installation of the shipping containers.

At Rogaška Slatina, there are 3 discarded 40' shipping containers (12,192 mm x 2,438 mm x 2,891 mm) and 1 discarded 20' shipping container (6,058 mm x 2,438 mm x 2,891 mm). In Slovenske Konjice, there are two discarded 20' shipping containers (6,058 mm x 2,438 mm x 2,891 mm).



2. EXTERIOR DESIGN PHASE BASED ON THE PRINCIPLES OF WASTE RE-USE AND INDUSTRIAL SYMBIOSIS

In the second phase, we have started the structural and handicraft works. For the purpose of exterior landscaping based on the principle of re-use, we have set ourselves a new challenge within the studioKroG project - **INDUSTRIAL SYMBIOSIS** and the goal of using **NO VIRGIN MATERIALS**.

In Phase 2 of the investment, industrial symbiosis was used to collect windows, doors, Styrofoam and waste wood to make green roofs and wooden gutters.



The pictures show waste windows and waste wood obtained through industrial symbiosis.

Why green roofs?

- ❖ To improve the microclimate in cities.
- ❖ Reducing air pollution.
- ❖ Retaining rainwater.
- ❖ Reducing CO₂ emissions.
- ❖ Reducing noise.
- ❖ Natural appearance and calming influence.



The two pictures above show the timber structure on the location Slovenske Konjice and the roofing works on the Tuncovec ZO location.

Why build according to circular economy principles?

Circular economy construction has a positive impact on the environment and is more cost-effective than conventional construction. The project is designed as a space where the target groups will observe the transformation of waste into functional use. Using WASTE design to achieve its transformation to showcase its use in deficit spaces, contributing to resource efficiency, reducing the consumption of virgin materials and promoting a low-carbon society.



Isolation in a slightly different way

At both StudioKroG locations, we used an insulation that not many people know that exists. These are textile plates made from **waste textiles**.

Textile plates

High sound insulation is an essential feature of textile panels. They are used to isolate walls, floors, studios, chambers, sound absorption.... Textile panels have excellent mechanical properties and virtually zero settling, so they are designed even for the heaviest floor loads.



The project is designed as a space where the target groups will observe the transformation of waste into functional use, using WASTE design to achieve its transformation in order to showcase its use in deficit spaces, contributing to resource conservation, reducing the consumption of virgin materials and promoting a low-carbon society.



VISIT TO SLOVENIA

On the 24th and 25th of November 2022, Andrea Speilberg Lindstrøm and Jan Evensen from Fønix Norway attended two different conferences in Slovenia - in Šmarješke Toplice and Slovenske Konjice.

Jan Evensen presented Norwegian circular economy practices, focusing on the political, industrial and consumer levels. The presentation itself gave important and innovative Norwegian examples in the fields of transport, housing, re-use and transformation.



Norway is a leading country in the global transition to a circular green economy.

Our Norwegian partner said. *"It was very interesting to meet representatives of different organisations in Slovenia working on the same issues as us. We also had time for some nice social events - including a visit to a beautiful vineyard in Slovenske Konjice."*



Sharing good experiences is always the smartest strategy for the way forward!

Jan Evensen

JAN EVENSEN

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"The studioKroG project is co-funded by Norway through the Norwegian Financial Mechanism in the amount of EUR 776.975,00. The aim of the project is to develop an innovative green solution with an integrated approach of reuse and eco-design of waste in order to reduce the consumption of virgin materials and increase the understanding of the circular economy."



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