

A wide-angle photograph of a construction site under a clear blue sky with some clouds. In the foreground, there are stacks of wooden beams and construction materials. In the middle ground, three construction workers wearing yellow and blue safety vests and hard hats are standing near a pile of wood. In the background, two large yellow tower cranes are visible, and the skeletal structure of a building under construction is seen. The overall scene is bright and active.

How to overcome the obstacles of circular economy in construction?

EFCA FUTURE LEADERS WEBINAR OF 1ST JUNE 2021 – MINNA TONTTI, ACCOUNT MANAGER AFRY FINLAND OY

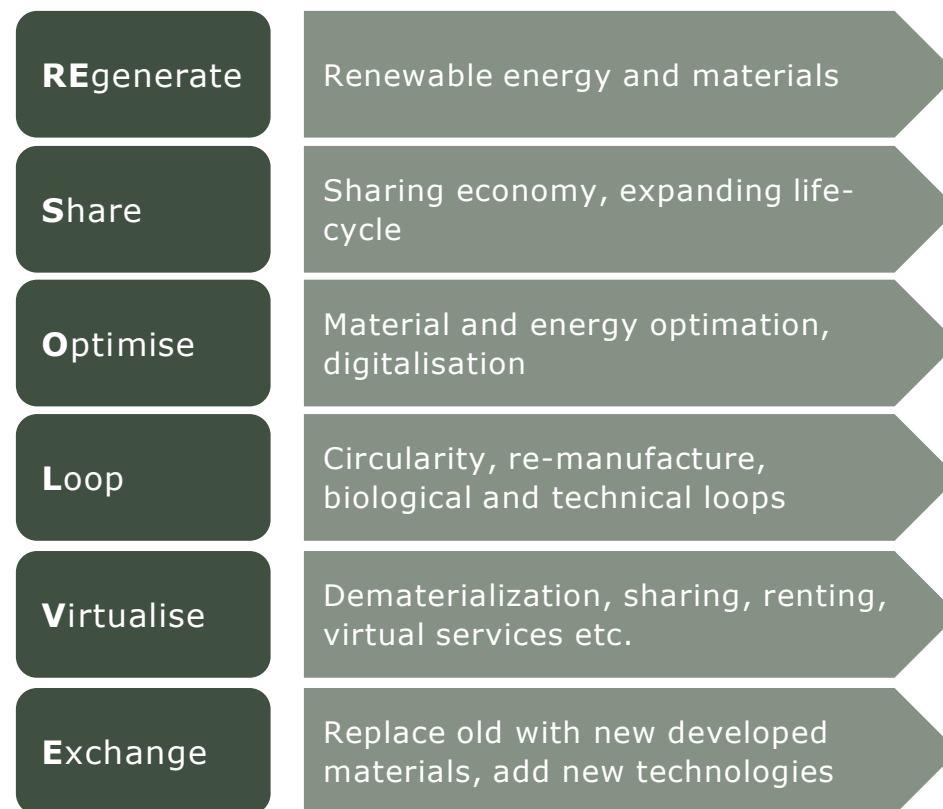


The potential of Circular Economy in Construction in Southwest Finland

- The Regional Council of Southwest Finland as a development authority works to engage different actors in the region to take steps towards circular economy.
- In order to support the Council in its promotion work within construction sector, AFRY's consultants conducted a case-based investigation (7 cases in Finland and abroad) into the potential of circular economy within this domain
- The investigation covers the exploration of the characteristics of the built environment and construction in Southwest Finland and an analysis of the selected cases in terms of scalability and impact within the region.

CUSTOMER: REGIONAL COUNCIL
OF SOUTHWEST FINLAND

PM: MINNA TONTTI
YEAR: 2020



CLIMATE CHANGE

1/3 GHG emissions



ENERGY

40 % energy
consumption



MATERIALS

50 % raw material
consumption

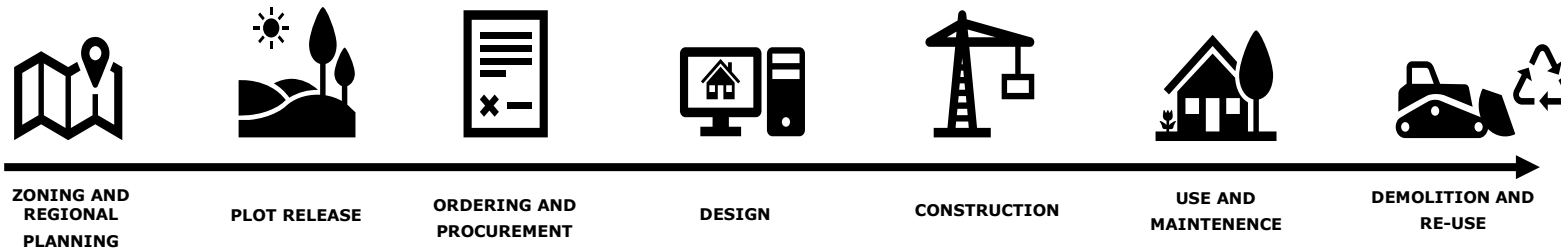


WASTES

1/3 wastes

Conclusions and lessons learned

- Good examples in practice exist but more available information is needed
- Take into consideration location-based differences (population and building type demand, service-life) but core principles of reducing the environmental footprint apply
- Less is more, design flexible
- Co-operation between organizations along the life-cycle. Courage to move forward.



A person is lying on their back on a grassy field, holding a smartphone in their right hand. The background shows a blurred residential building and trees. The image is overlaid with a grid of seven semi-transparent boxes, each containing a number and a text block.

1

Plan cities according to goals rather than prognoses.

2

Include citizens in the development – use their needs as a starting point.

3

Make sure that the city of the future is inclusive, safe and enables a sustainable way of life.

4

Let nature and buildings interact in the urban environment.

5

Ensure the flexibility of the urban realm.

6

Use the technological development to make our vision a reality.

7

Dare to act today – don't wait for the next big thing.

Making Future