



Monitoring Circular Economy in Finland

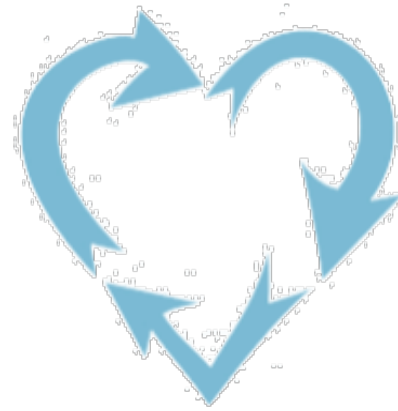
Experiences with pilot indicators

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Finnish Environment Institute SYKE

Circular Economy Conference, Dublin, Ireland, 22 September 2022

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Monitoring CE in Finland

1. EU CE monitoring framework
2. Strategic Programme to Promote a Circular Economy (2021, [link](#))
3. Research and development

The first set of national CE indicators and targets!

Indicators in the Strategic Programme to Promote a CE

Domestic material consumption (DMC)

Material input required for domestic end-use material-specifically (RMC)

Resource profitability (GDP/RMC)

Circular material use rate (CMU)

Turnover of circular economy sectors and number of enterprises

Eco-innovations

Innovative public procurements

Amount and recycling rate of municipal, packaging, and construction waste

Circular economy barometers for business and consumers

circwaste

CIRCWASTE

– Finland towards
a circular
economy

Implements
the National
Waste Plan

Promotes the
Circular Economy

2016–2023
20 partners
4 regions
19 M€



SYKE

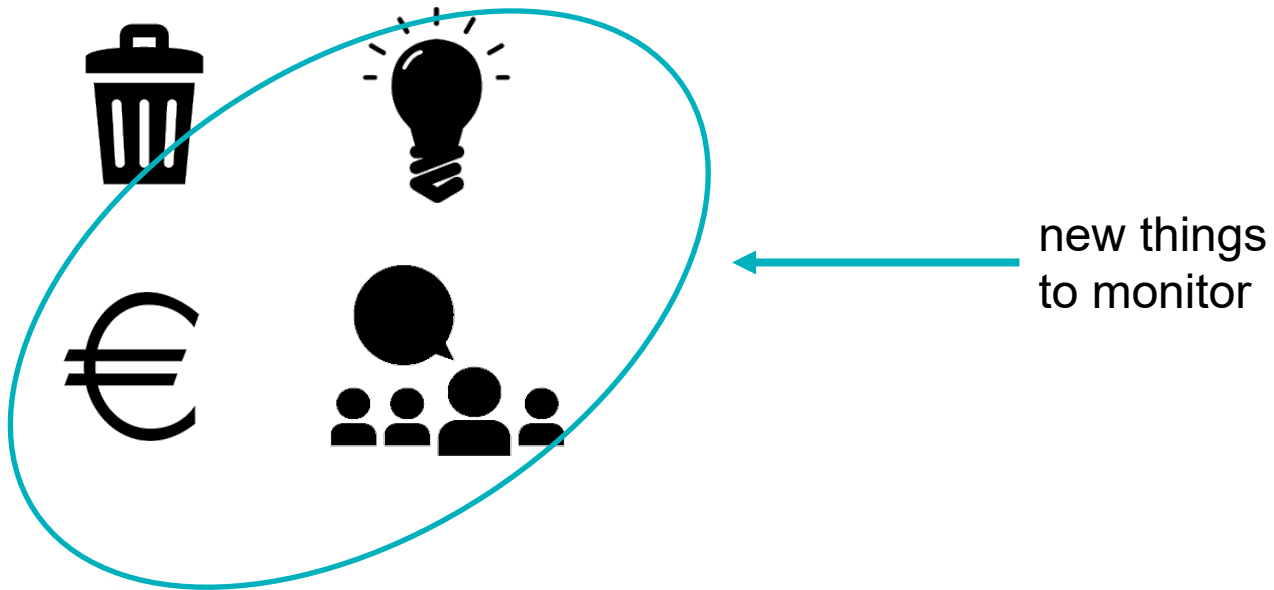


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Kuva: SYKEKuvat Tiina Karppinen, SYKE 22.9.2022

What do we want to monitor?

Aim 1:
Broad spectrum of circularity

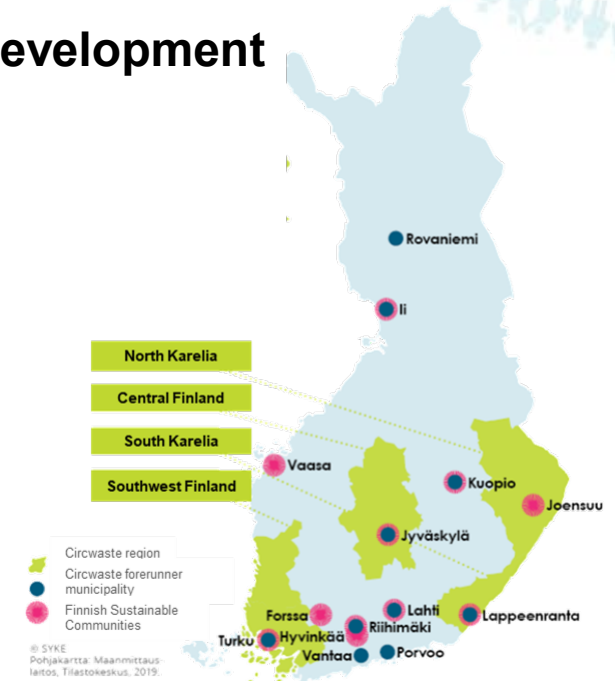


What do we want to monitor?

Aim 1:
Broad spectrum of circularity

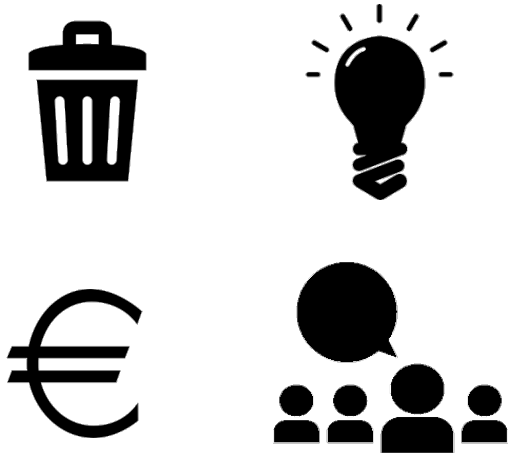


Aim 2:
Local development



What do we want to monitor?

Aim 1:
Broad spectrum of circularity



Aim 2:
Local development

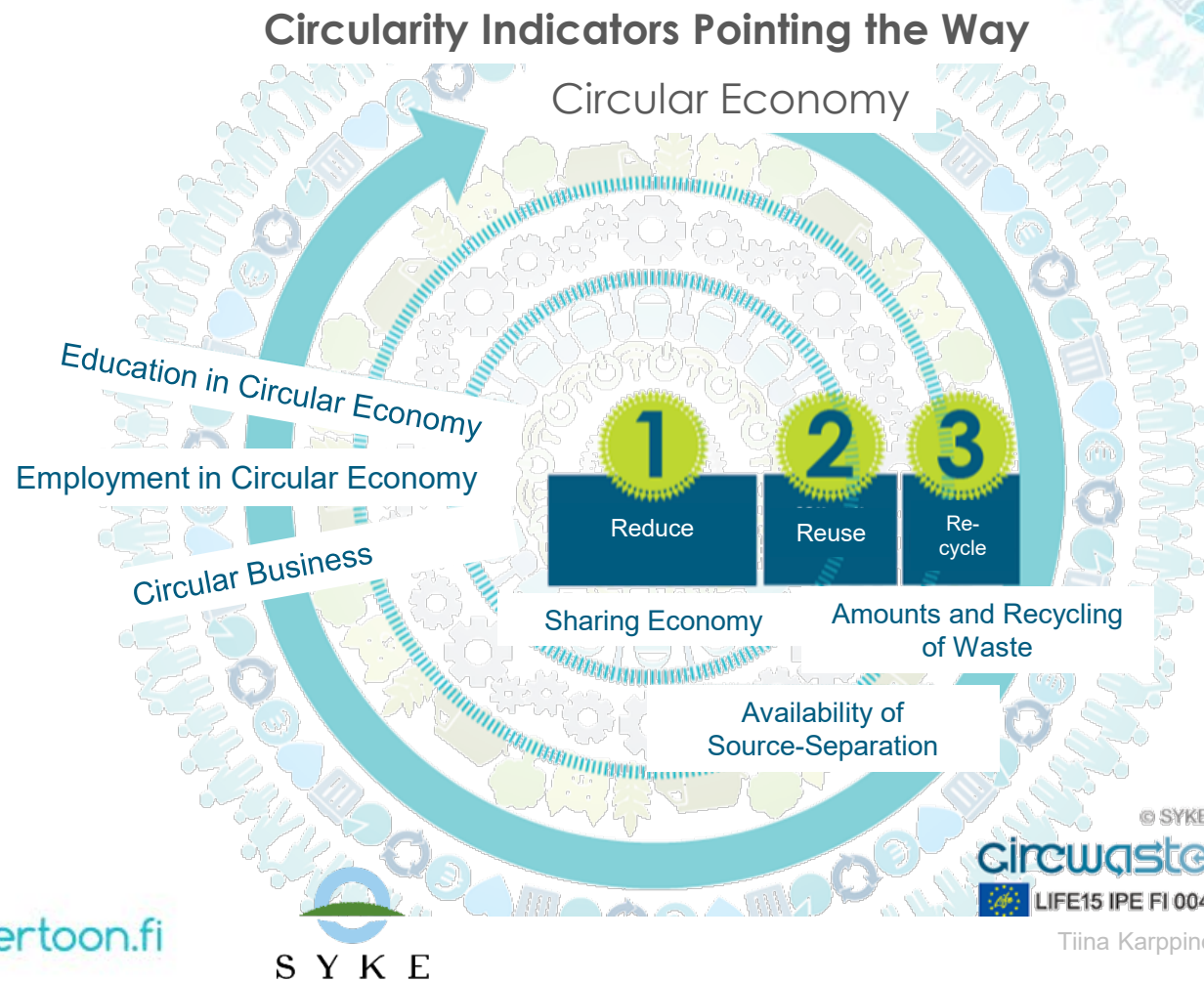


Examples of pilot indicators

An aerial photograph of a large, elongated, yellowish-green sediment plume or sandbar in the ocean. The plume is oriented diagonally from the bottom left towards the top right. It has a textured, almost fringed appearance along its edges. A small white boat is visible near the top of the plume. The surrounding water is a deep blue.

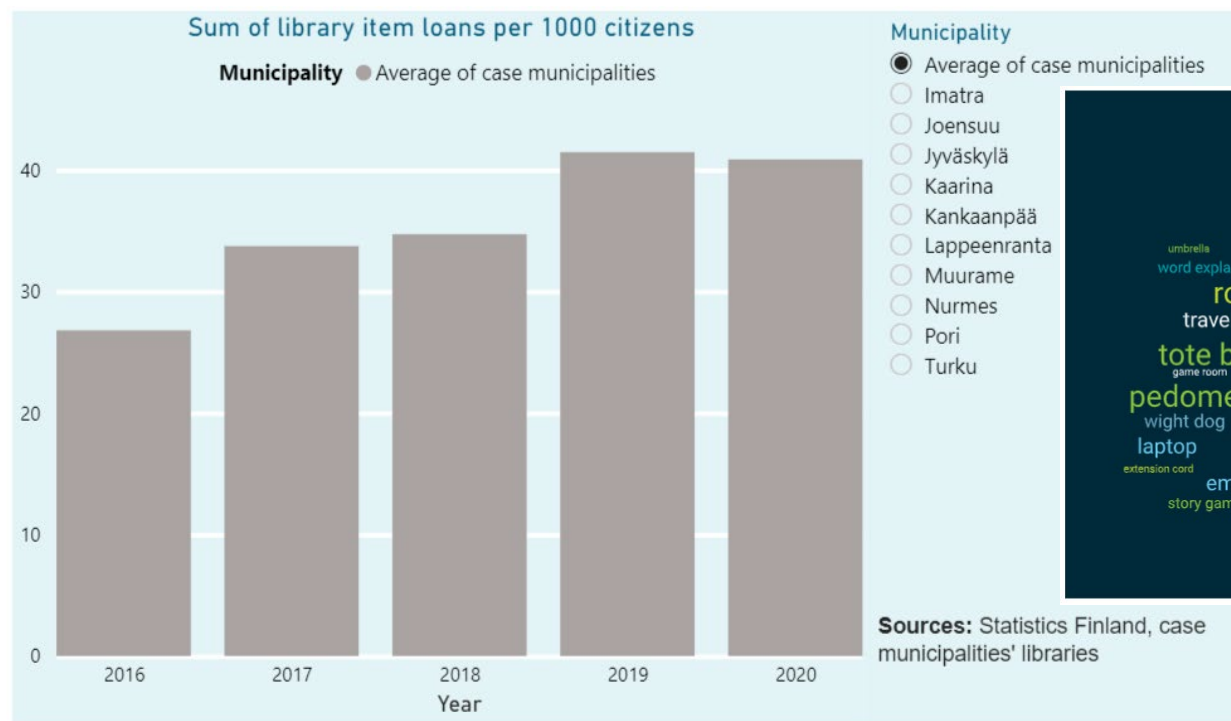
New data to capture the inner circles of circular economy

Monitoring the small changes to capture the beginning of a systemic change.



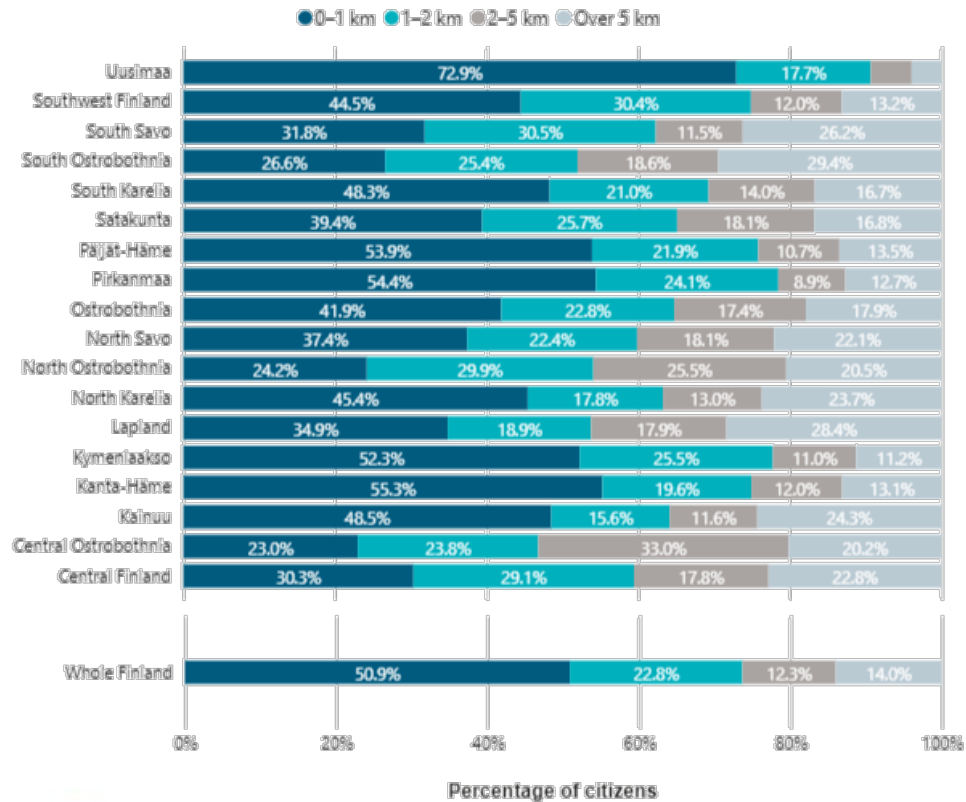
Library items in public libraries

An example of an accessible sharing economy



Accessibility of reusable textile collection

The accessibility of the nearest reusable textile bring site as a distance from home by road network in each region



Year

- 2019
- 2020

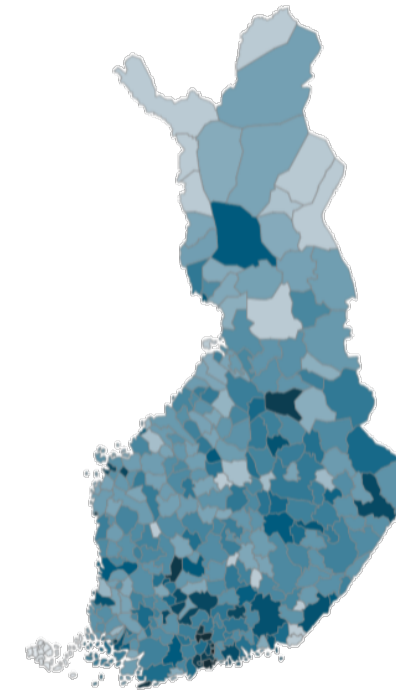
Highest value



Lowest value

By clicking a region in the graph you can view the data from the municipalities in that region.

The percentage of citizens living less than 1 km away by road from the nearest reusable textile bring site by municipality



Higher education in the circular economy

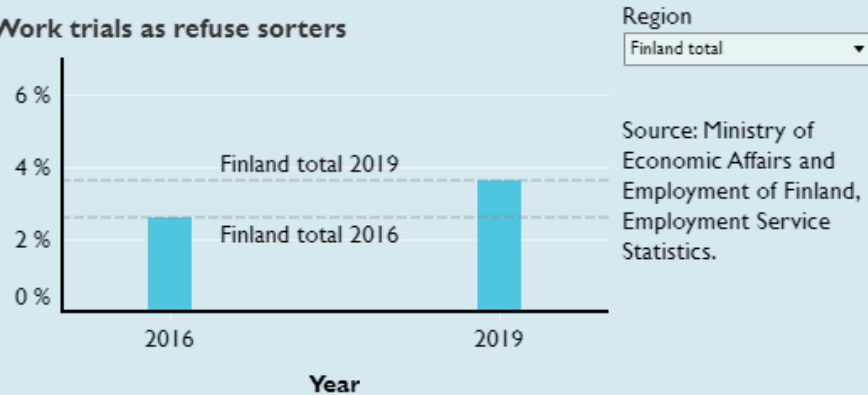


- Number of course credits in courses with "circular economy" in their names or course descriptions
- Finnish Universities of applied sciences
- Annually updated ([link](#))

Employment in the circular economy

Supportive employment in the circular economy

Work trials as refuse sorters



Wage subsidised as refuse sorters



[Link](#)

Indicators for the circular economy business

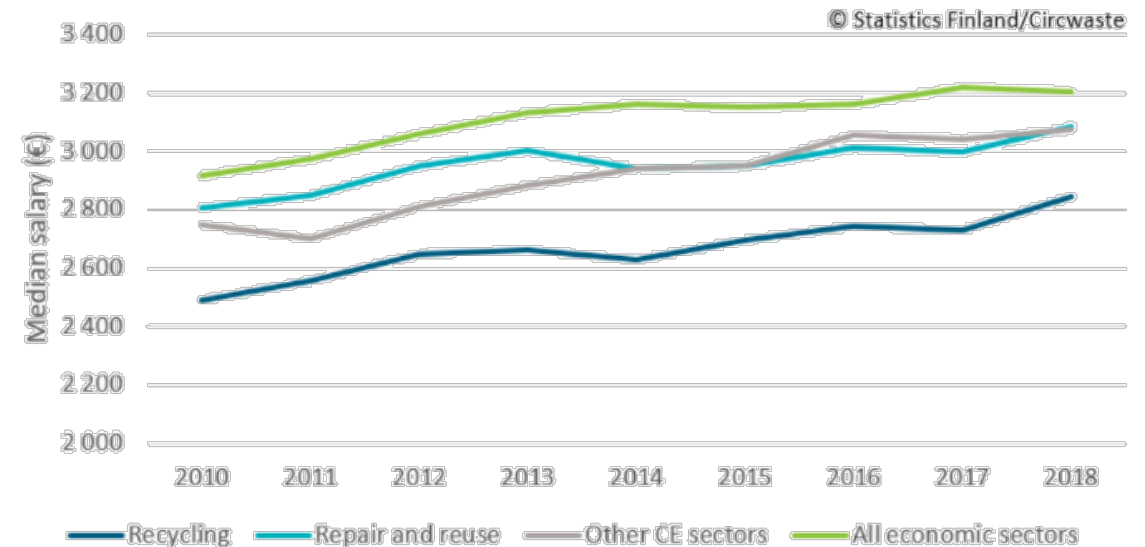


[Link](#)

Statistics Finland



Median salaries at circular economy sectors



Examples on failures

We tried, but it did not work

- Monitoring of the availability and use of shared public space
- Local monitoring of construction and demolition waste



- **Indicators on circular economy in the business sector**
 - Ended up in the indicators of the Strategic Programme to Promote CE
- **Local household waste monitoring**
 - Contributed to the renewal of National Waste Plan
- **Accessibility of reusable textile bring sites**
 - Continuous monitoring for all municipalities, map-based open data for the whole country
- **Loans of non-traditional library items**
 - Pilot: data available for pilot municipalities only

[link](#)

What have we learnt?

- Start with what you have
- Co-operate
 - Find out what is interesting to the CE + for a branch / association / company / municipality
- Find out what you absolutely need to know and start collecting data



Coping with
too small samples,
too big uncertainties,
and difficulties to
interpret
the results...



...but
we need
to start
somewhere!

For further information

Check out our website and publications:

- The project website ([link](#))
- Circular Business Indicators ([link](#))
- Executing circular economy strategies in practice in Finland. Results and experiences from Circwaste project ([link](#))
- Sex, drugs and the circular economy: the social impacts of the circular economy and how to measure them ([link](#))
- To be published: An article on piloting the socio-economic CE indicators in Finland (Pitkänen et al.)

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Thank you
for your attention!



arctic
sharing
economy
:)

