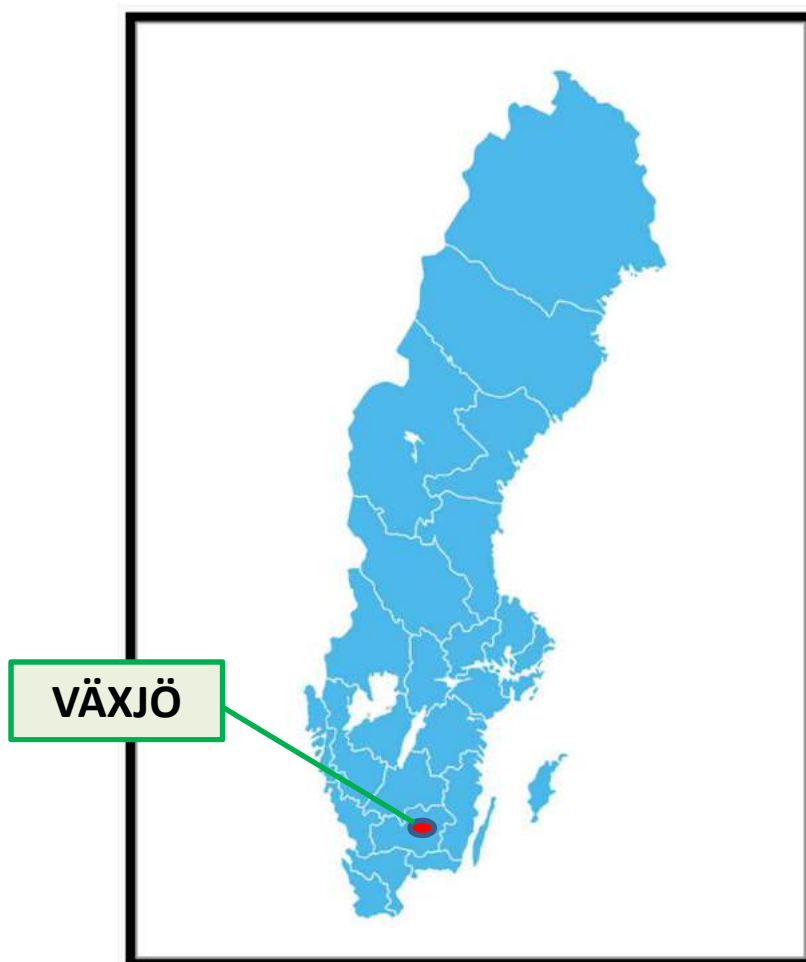


Circular Economy

in Växjö Sweden, the Greenest City in Europe

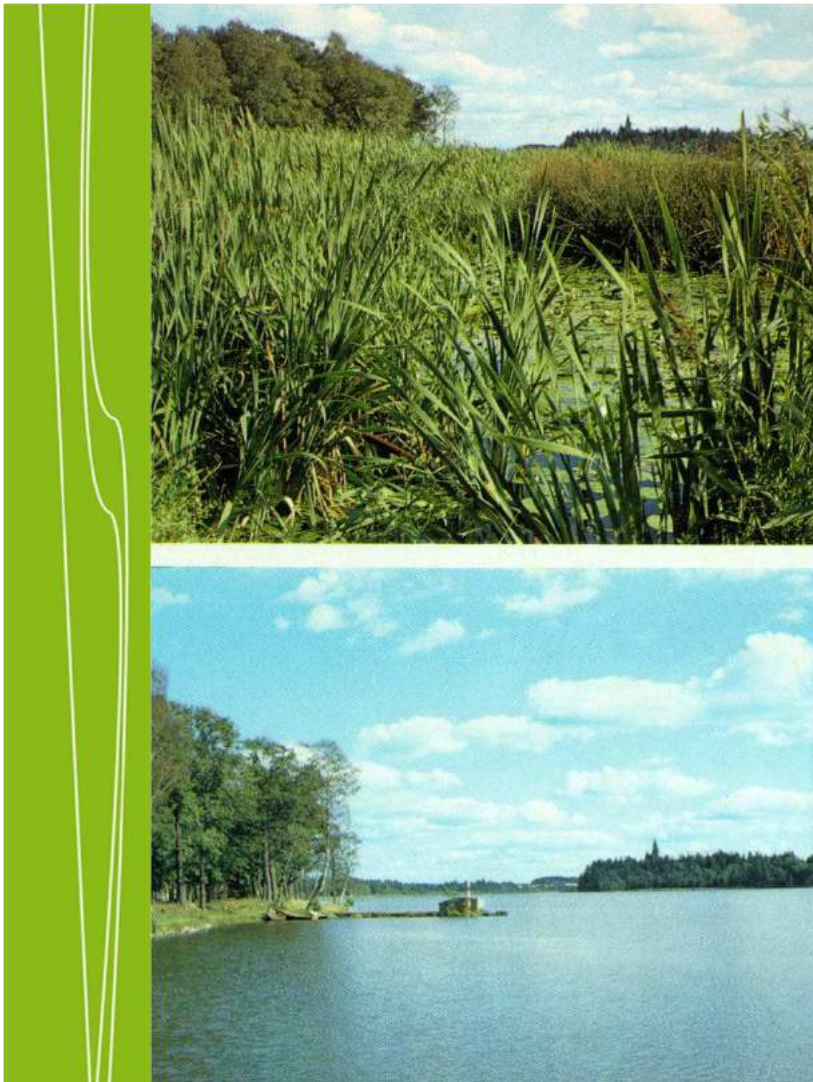
Bo Hjälmeffjord, Project Developer
4th May 2017





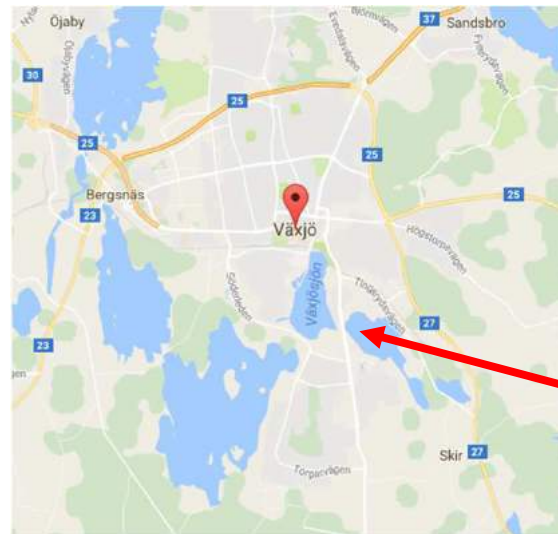
This is Växjö Sweden

- Population ~90 000 (~70 000).
- Forests and 200 lakes.
- Centre of glass- and furniture production, bio energy & higher education.
- ~8 000 SME-companies.
- ~Political majority, conservative/ green party alliance.
- ~7,000 employees in the city administration/companies.



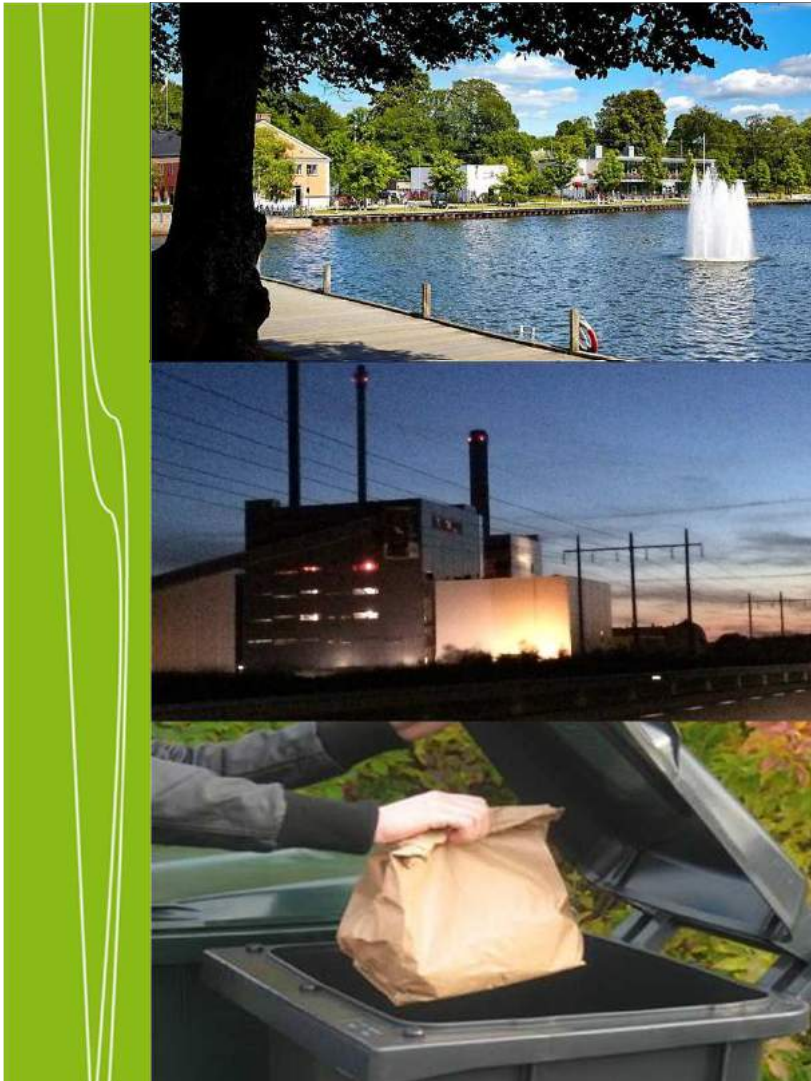
Local alarmbell

Lake 'Trummen' 1969



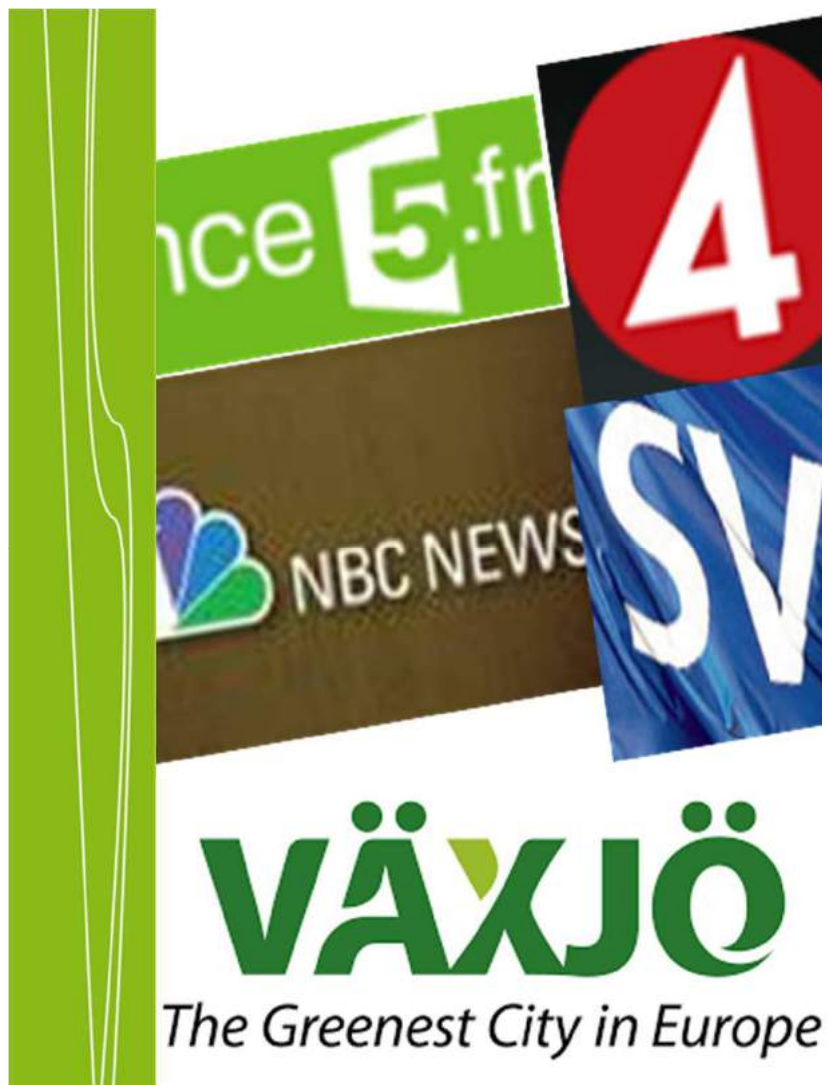
Lake Trummen

Lake 'Trummen' today



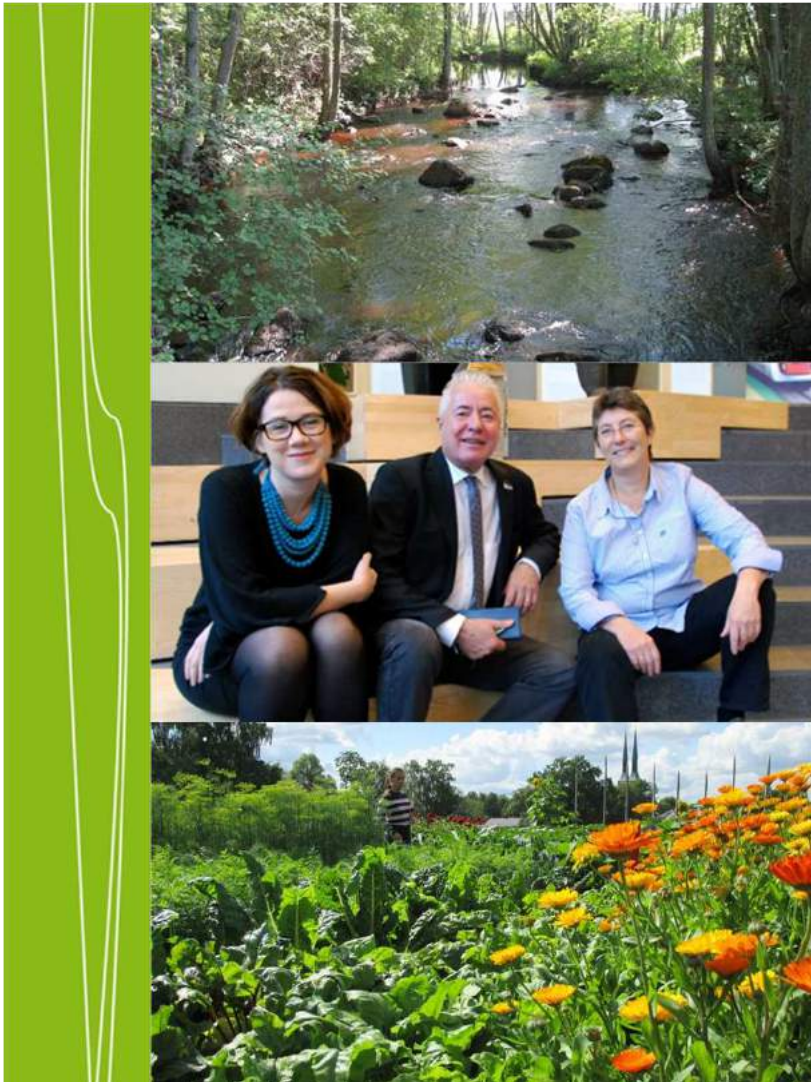
The major steps ...

- Lake restorations 1970 –
- Bio fuel 1980 –
- Fossil free Växjö 1996



Greenest City in Europe

Was borne when BBC called Växjö “**The Greenest City in Europe**” in a recorded broadcast in 2007

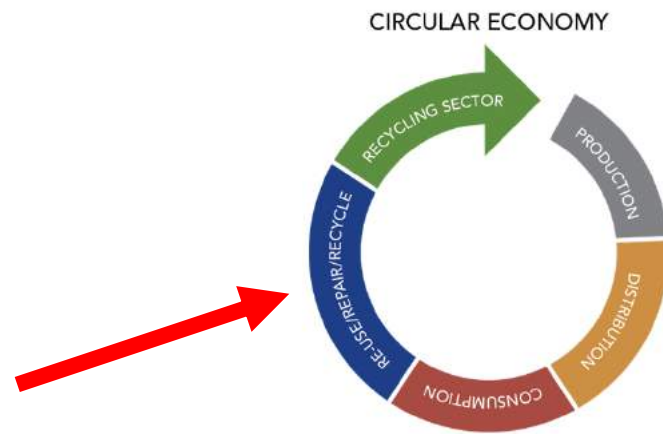


Success factors

- Municipal autonomy – decisions are taken at local level
- Political consensus and long term vision (with policies/plans)
- Broad co-operation with other actors

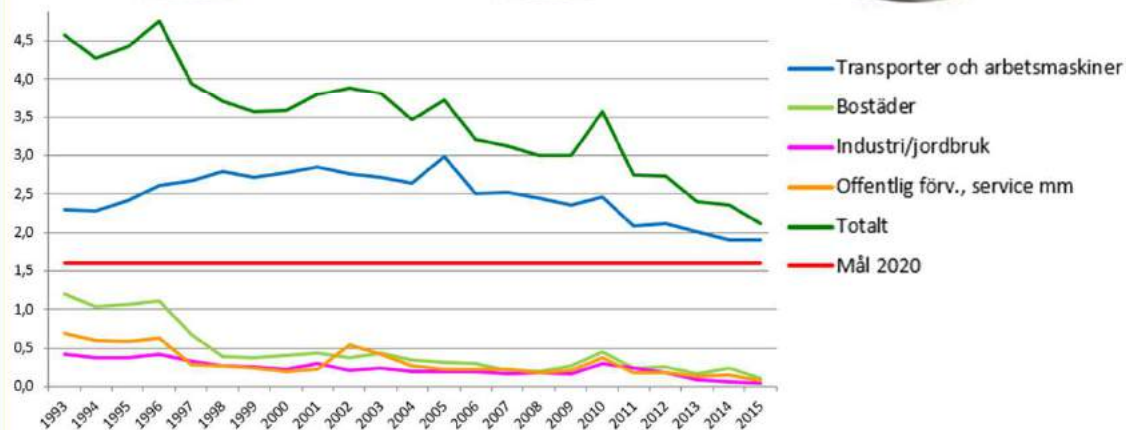


Växjö and Circular Economy



Current resource usage in with Sweden's consumption level

4.2 Earths



CO2 emissions per capita (ton) **-54%** from 1993 to 2015

**Fossil fuel free Växjö
2030**

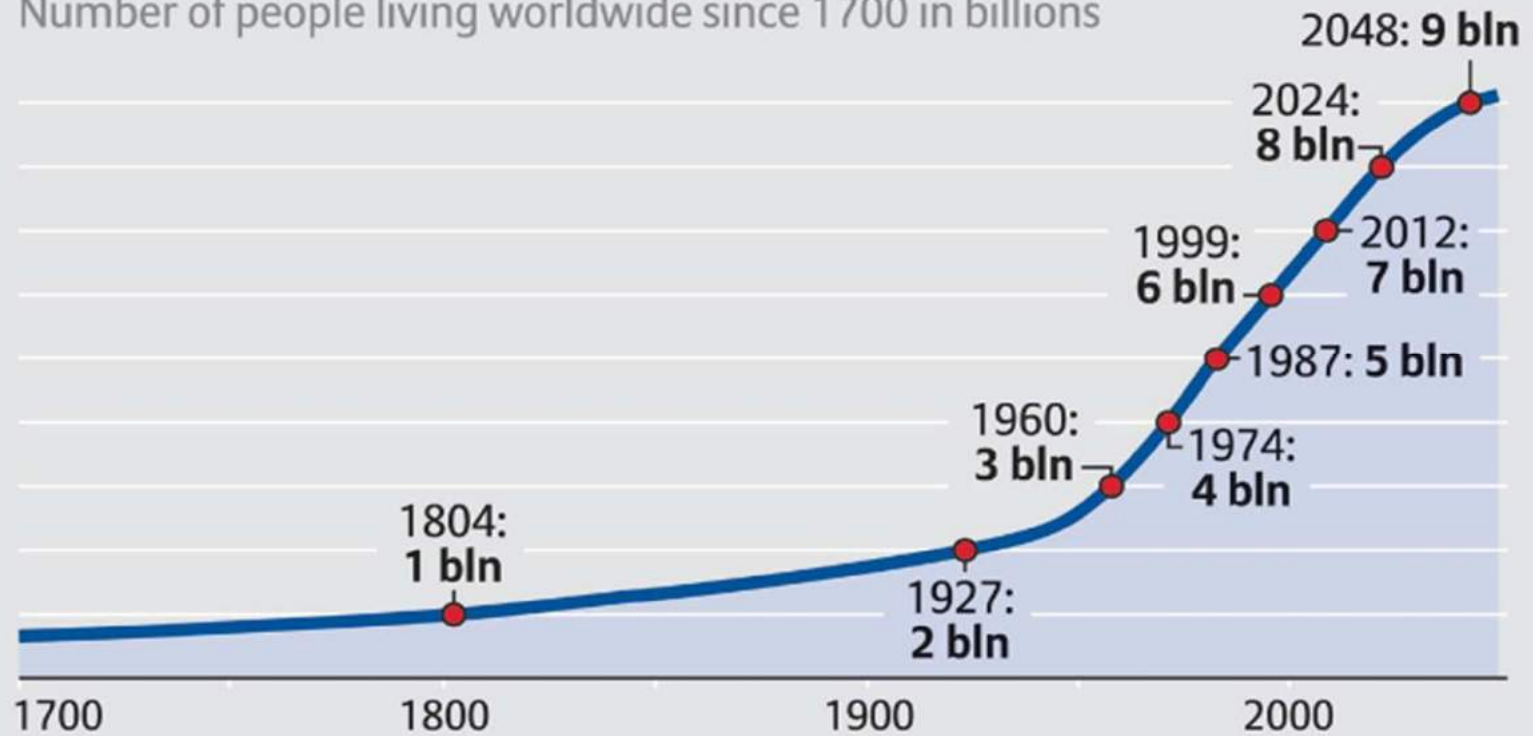
VÄXJÖ
Europas grönaste stad

The Greenest City in Europe

POPULATION OF THE EARTH

Allianz 

Number of people living worldwide since 1700 in billions



Source: United Nations World Population Prospects, Deutsche Stiftung Weltbevölkerung

For further information please visit: www.knowledge.allianz.com

Why circular economy?

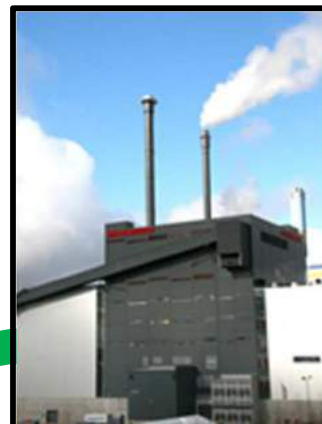


Growing world population (8.5 billions 2030) and **increasing middle class** (5 billion by 2030). Larger part of world population wants to consume like us!



Increased demand for products gives **increased demand for raw materials**, depleting the material stock. When those getting scarce, **raw material prices increases, products gets more expensive** and **challenge our life styles**.

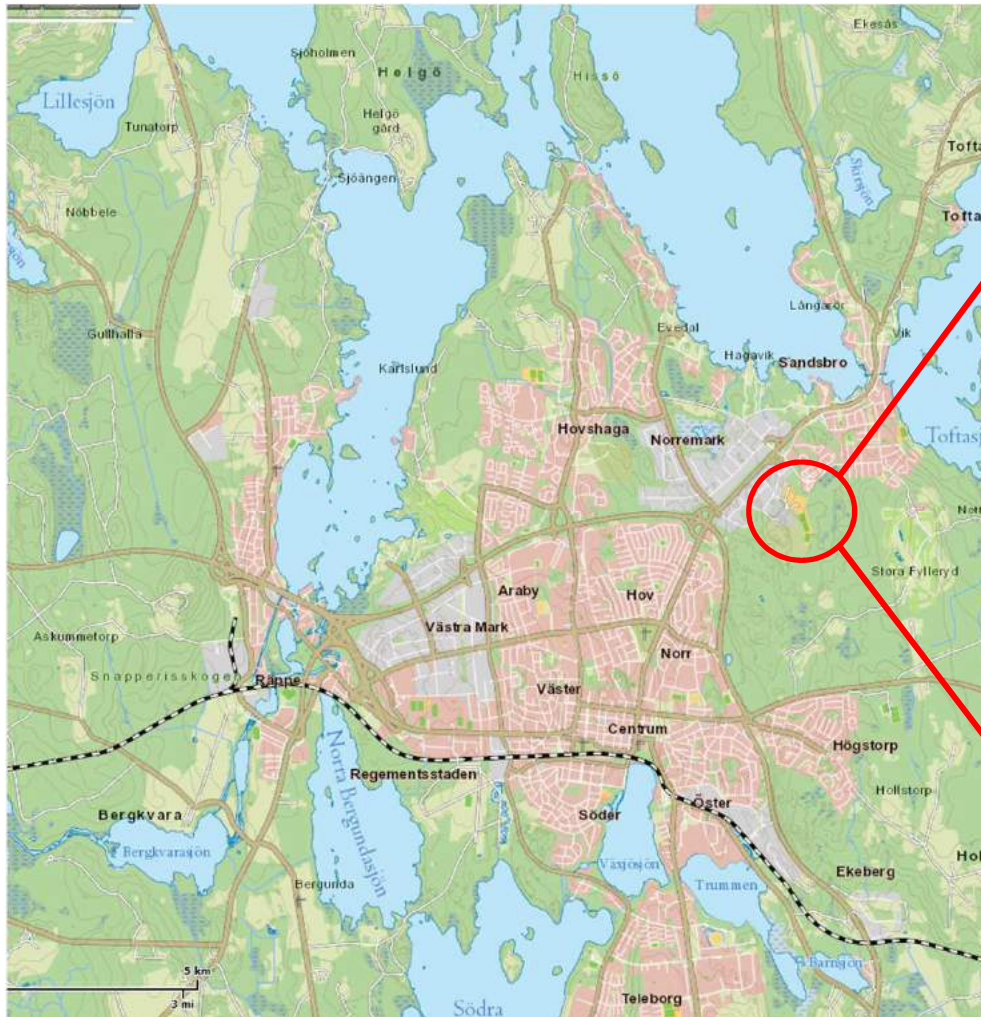
Circular Economy in Energy Production

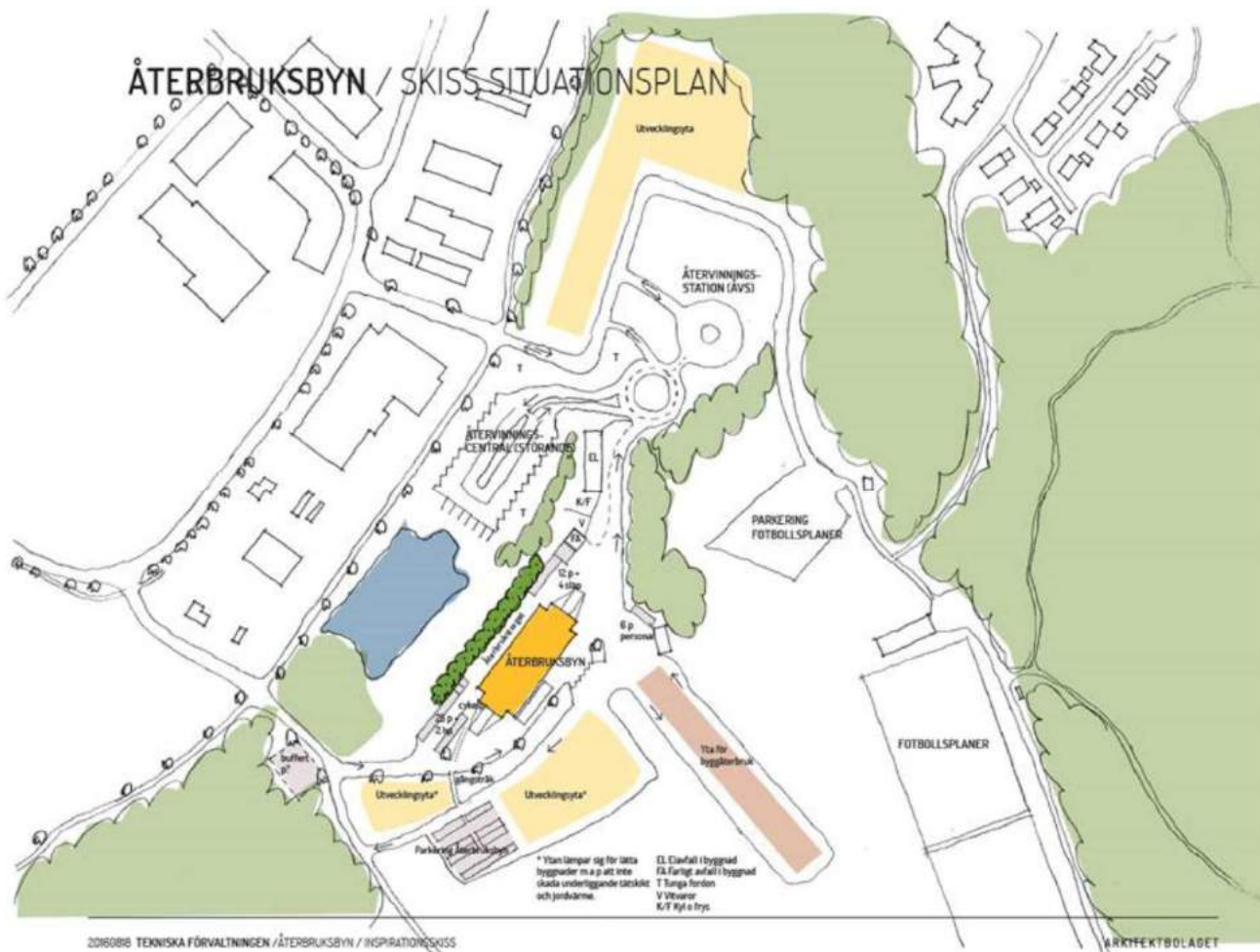


Circular Economy in Biogas production









Växjö Re Use Village



Transportväg.
På gåendes villkor.

Yta som kan disponeras
av butik.

FÖRSÄLJNING

FÖRÄDLING

SORTERING/LAGER

MOTTAGNING

SKÄRMTAK VID AVLASTNING

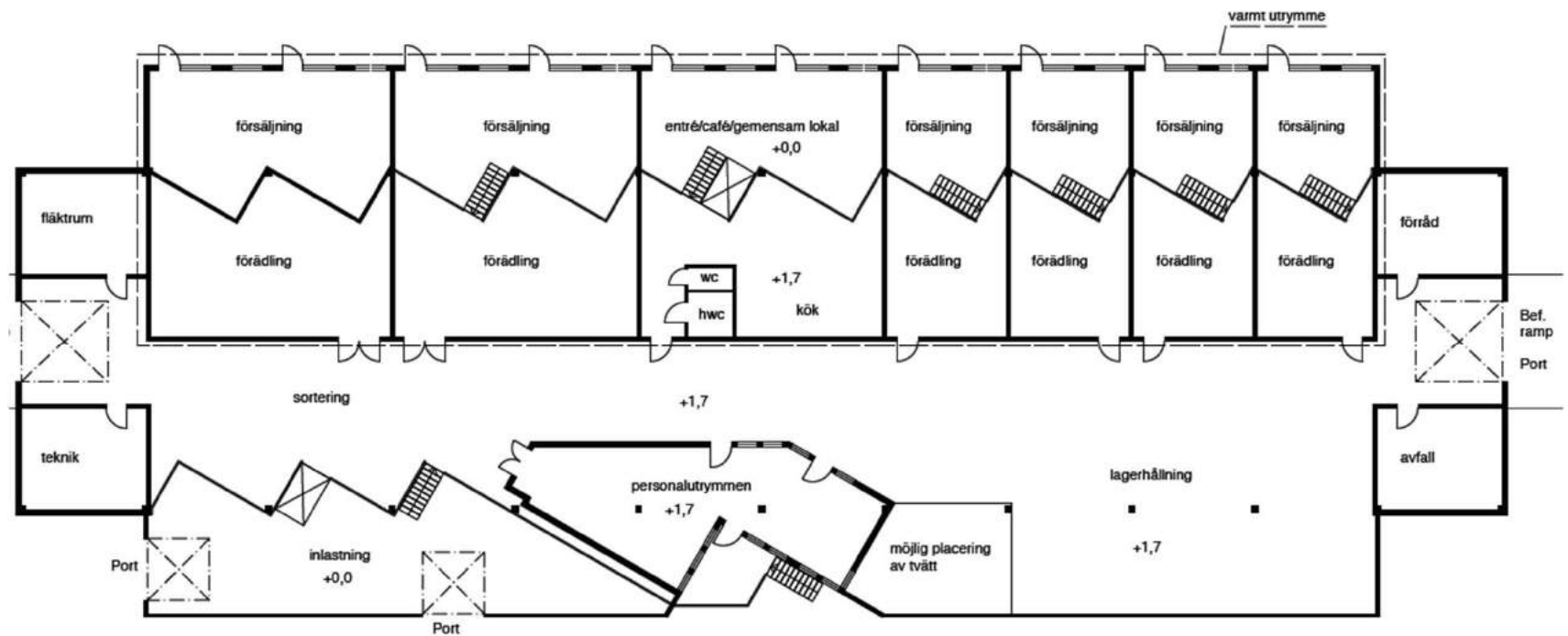
Sell products

Workshops

Storage

Reception

Växjö
kommun
Europas grönaste stad



**-Bättre
än
loppis!**







Possible businesses in the reuse village

- Collection point with professional staff;
- Storage/handling;
- Construction waste facility;
- Workshops (wood/furniture, textile, bicycle, electronic) – maker spaces;
- Shops (second hand – vintage – swap space) – on-line-sales;
- Business training center – incubator;
- On-the-job language school;
- Visitors center for the Greenest City in Europe;
- Exhibition, Coffee house/restaurant, conference facility;





Vision

Växjö Municipality, want to create a sustainable future by more efficiently taking care of the furniture available in the municipality and ensure that they are reused as much as possible.

"The Furniture Circle"

MÖBELCIRKELN

Create job opportunities



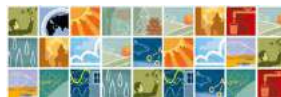
Hopefully make a project application together with other municipalities in the region



Economize with the citizens tax money "Circular economy"



Benefits for the environment



Thank you!

Contact details

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Development Section

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For more information

The City of Växjö

<http://www.vaxjo.se/-/Invanare/English/Engelska--English/>

Environmental program

http://www.vaxjo.se/upload/www.vaxjo.se/Kommunledningsf%c3%b6rvaltningen/Utvecklingsenheten/H%c3%a5llbarhetsgruppen/Milj%c3%b6dokument%20och%20broschyrer/Miljoprogrammet_eng_webb.pdf