

WARGÖN INNOVATION

Enables production of tomorrow's materials



Wargön – an industry place with traditions

- In December 2008, the paper machines at Holmen mill in Vargön, Vänersborg, came to a complete stop
- About 340 persons lost their job
- The Holmen group demolished the buildings and decontaminated the grounds
- The competence was dispersed
- Vänersborg municipality bought the area including surroundings (ca 23 ha)
- A process to develop the area was started, and stopped, and started, and stopped, and started.....
- Finally, Wargön Innovation was started in December 2012



MATERIALS HAVE A SIGNIFICANT CLIMATE IMPACT

- 🌱 All that is made from plastic can be made from forest
- 🌱 Cellulose – the most common organic substance in nature. 100 billion tonnes are formed every year!
- 🌱 Future materials need to be circular. Recycling – also for fossil-based materials – is key in material supply.



Raw materials from both primary and secondary sources

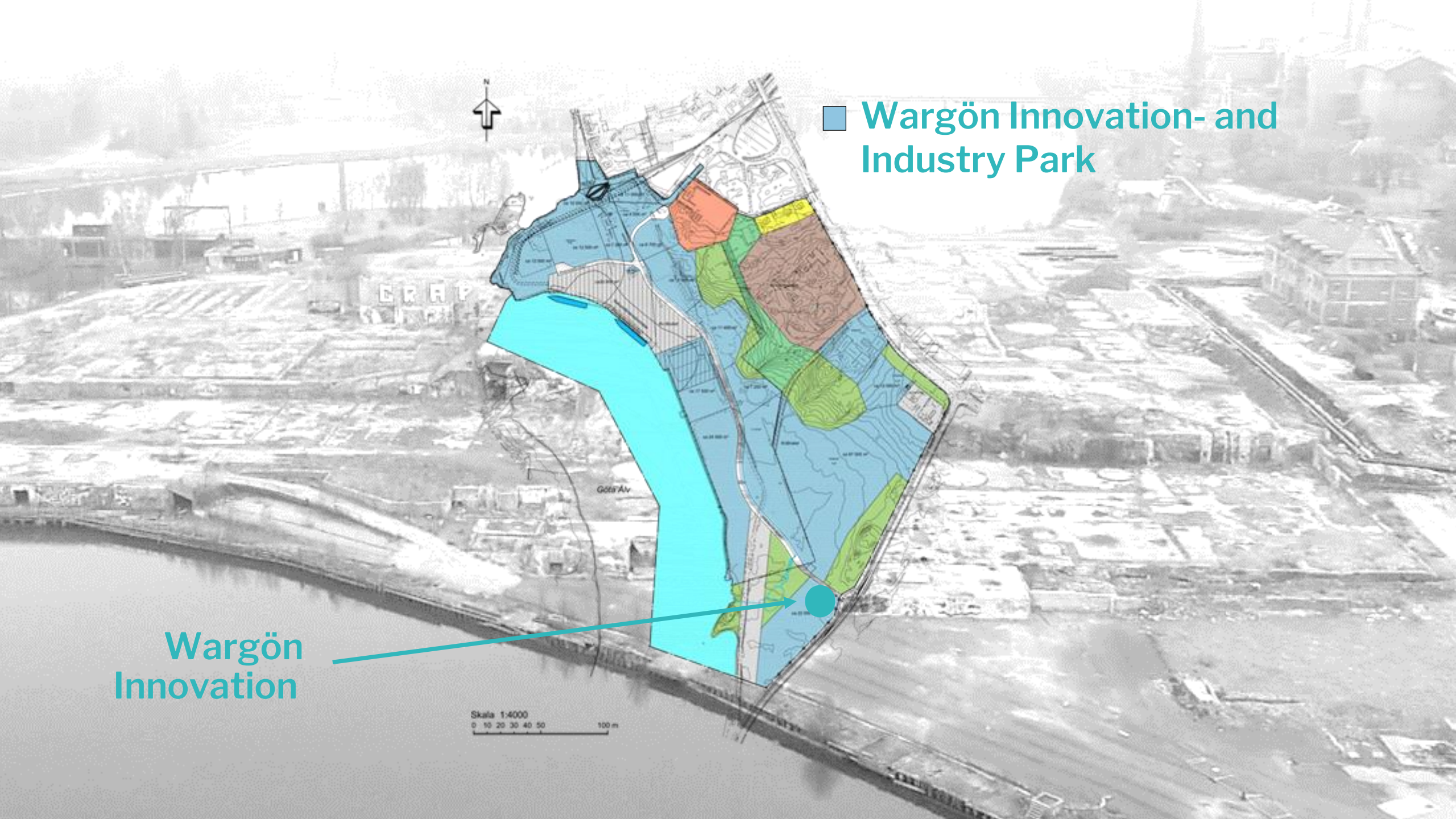
- **Bio-based materials from forest, crops, or sea**
- **Resource-efficient materials from recycling**



Wargön Innovation enables production of tomorrow's materials

- Part of Science Park Innovatum
- Focus to decrease carbon dioxide emissions by offering a test- and demo facility for material innovations
- Financed by Västra Götalandsregionen, Vänersborg municipality, EU funding (Tillväxtverket), and Fyrbodals kommunalförbund
- Focus on small- and medium-sized Enterprises
- Parallel business- and technology development
- Cooperation with institutes, academy, businesses, public organisations and other





■ Wargön Innovation- and Industry Park

Wargön Innovation

Skala 1:4000
0 10 20 30 40 50 100 m

WE ARE WARGÖN INNOVATION



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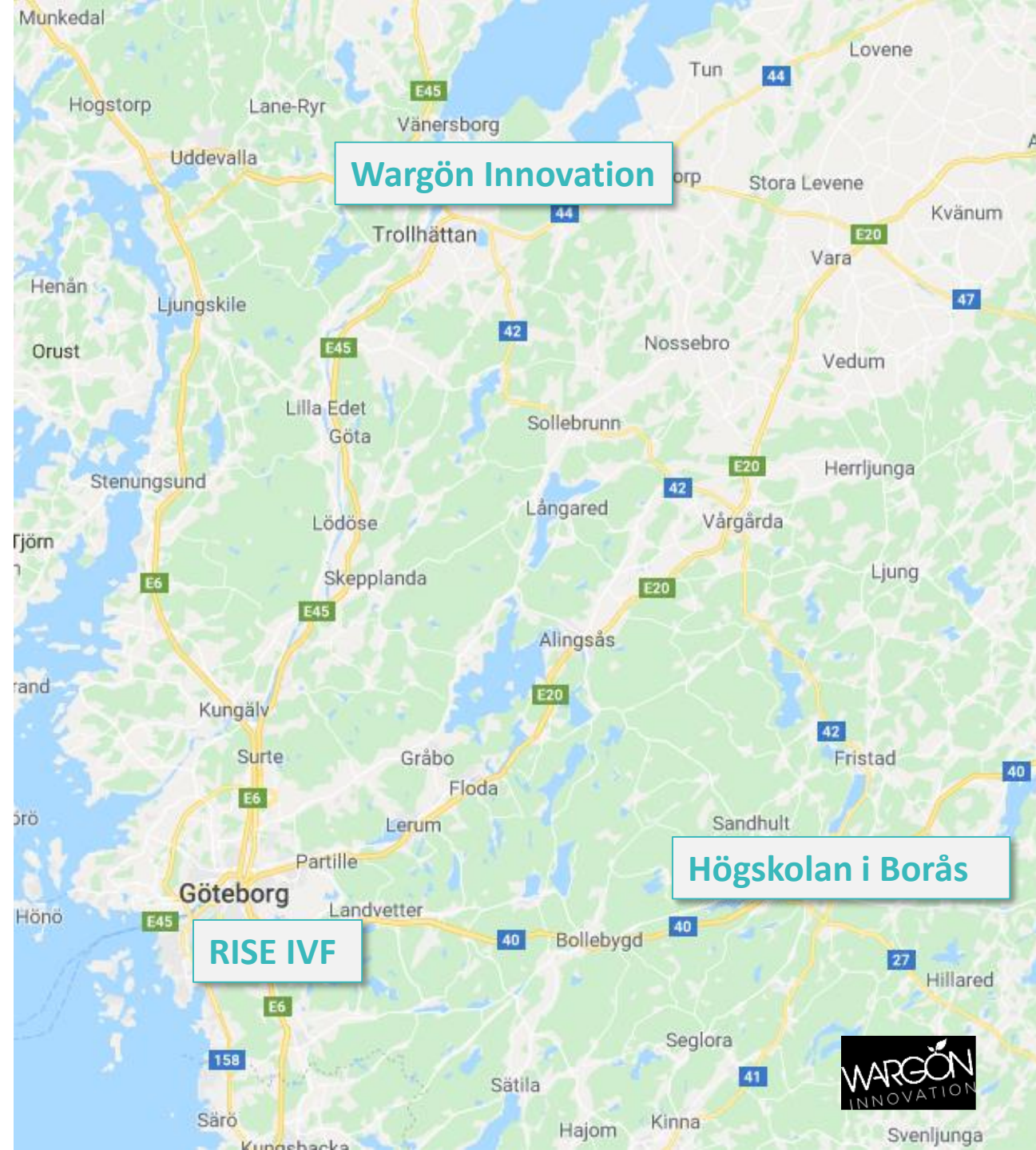
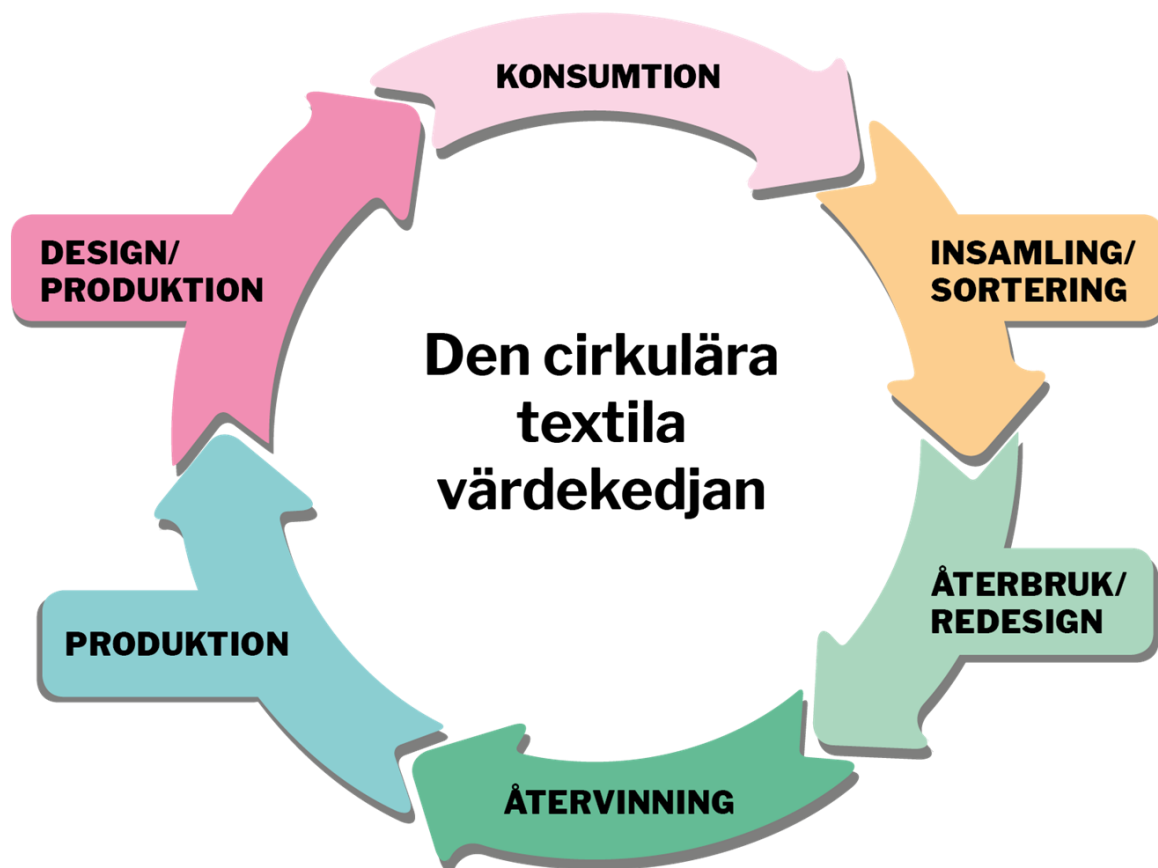
DEVELOPMENT PROJECTS CREATE NEW BUSINESSES

Since July 2016

- Wargön Innovation cooperates with more than 100 different actors – 25% are SME.
- At least four SMEs has been introducing new products or materials on the market based on Wargön Innovation development projects.
- Today, about 10 persons are employed at Wargön Innovation.



Three nodes in the West coast area closes the textile demo loop



THERE IS A LACK OF INDUSTRY CAPACITY FOR TEXTILE SORTING IN SWEDEN

- Swedish EPA suggests that collected textile volumes increases from today's level of 38 000 tonnes/years to 85 000 ton/year in 2025..
- Today, there are about 6-7 sorting facilities in Sweden with a total capacity of about 7 000 tonnes/year.
- Also, there are 280 Red Cross shops where in- shop sorting takes place.
- There are many national textile sorting and recycling initiatives on going.



WargoTex Development



RE:

SOURCE

resource-sip.se

Med stöd från:



STRATEGISKA
INNOVATIONS-
PROGRAM

WARGOTEX DEVELOPMENT

Goal:

To establish, operate and continuously develop a test-and demo environment focusing on textile sorting of both post-consumer textiles and industrial waste.

Time:

2018-06-15 → 2020-12-31

Objective:

Support development, testing and verification of issues regarding

- technologies / automation
- working environment
- business models
- new value chains
- reuse/remake/recycling

so that the next step could be implementation of large-scale industrial operation with circular and economic viability for textile sorting.

WARGOTEX DEVELOPMENT - WORKPACKAGES

Work Package 0:
Project Management

Susanne Eriksson
Wargön Innovation

Work Package 2
The Demo-projects

Respective demo leader

Work Package 5
Communication & Results

Wargön Innovation

Work Package 1
Business and Sustainability analysis

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Work Package 3
Process and production

Wargön Innovation/University West

Work Package 6
Technical support

Wargön Innovation

Work Package 4
Working Environment

University West



The Demo-projects

Demo 1: Sorting automation and robotics

Demo2: Development of the cotton value chain

Demo 3: Development of the polyester value chain

Demo 4: Industrial re-design

Demo 5: Establishment of new textile value chains

Partners in WargoTex Development

Wargön Innovation/Innovatum AB

University West

Science Park Borås

RISE IVF

Vänersborgs municipality

Uddevalla Energi

Trollhättan Energi

Kappahl

Varnergroup



Lindex

Björkå Frihet

Röda Korset, centralt

Röda Korset Vänersborg

Myrorna

Texaid

Sellpy

Ragn-Sells

SÖRAB

Re:newcell

The Loop Factory

Berendsen

OP Systems

Forbo flooring

Circle Economy

Teko



Questions?



EUROPEISKA
UNIONEN
Europeiska
regionala
utvecklingsfonden



VÄSTRA
GÖTALANDSREGIONEN



Vänersborgs kommun

