



An initiative of the European Union

CLUSTERS MEET REGIONS

MALMÖ

SWEDEN | 15-16
JUNE 2023

CLUSTERS AS BOOSTERS OF INNOVATION
IN INDUSTRIAL ECOSYSTEMS



#SingleMarket30

Session 3: Method: the role of enablers of Digital and Green Transition / FOOD INNOVATION

- The role of clusters in the design of FIRS Food Innovation
- From policy to practice: Cirkulär utvecklingshub, Presenting which stated needs the project met and a user case, **Marie Malmberg Lavsén**, CEO of Packbridge and **Ingrid Landgren**, CEO of Livsmedelsakademin

Moderation: **Ida Åstrand**, Region Skåne



The Research and Innovation Council of Skåne (FIRS)

- FIRS is a forum for key stakeholders working with research and innovation in Skåne.
- A forum for discussion, collaboration and mobilization.
- High level members from Region Skåne, Universities, municipalities and the business sector.
- Common steering document, the Innovation Strategy.



Skåne's innovation strategy for sustainable growth

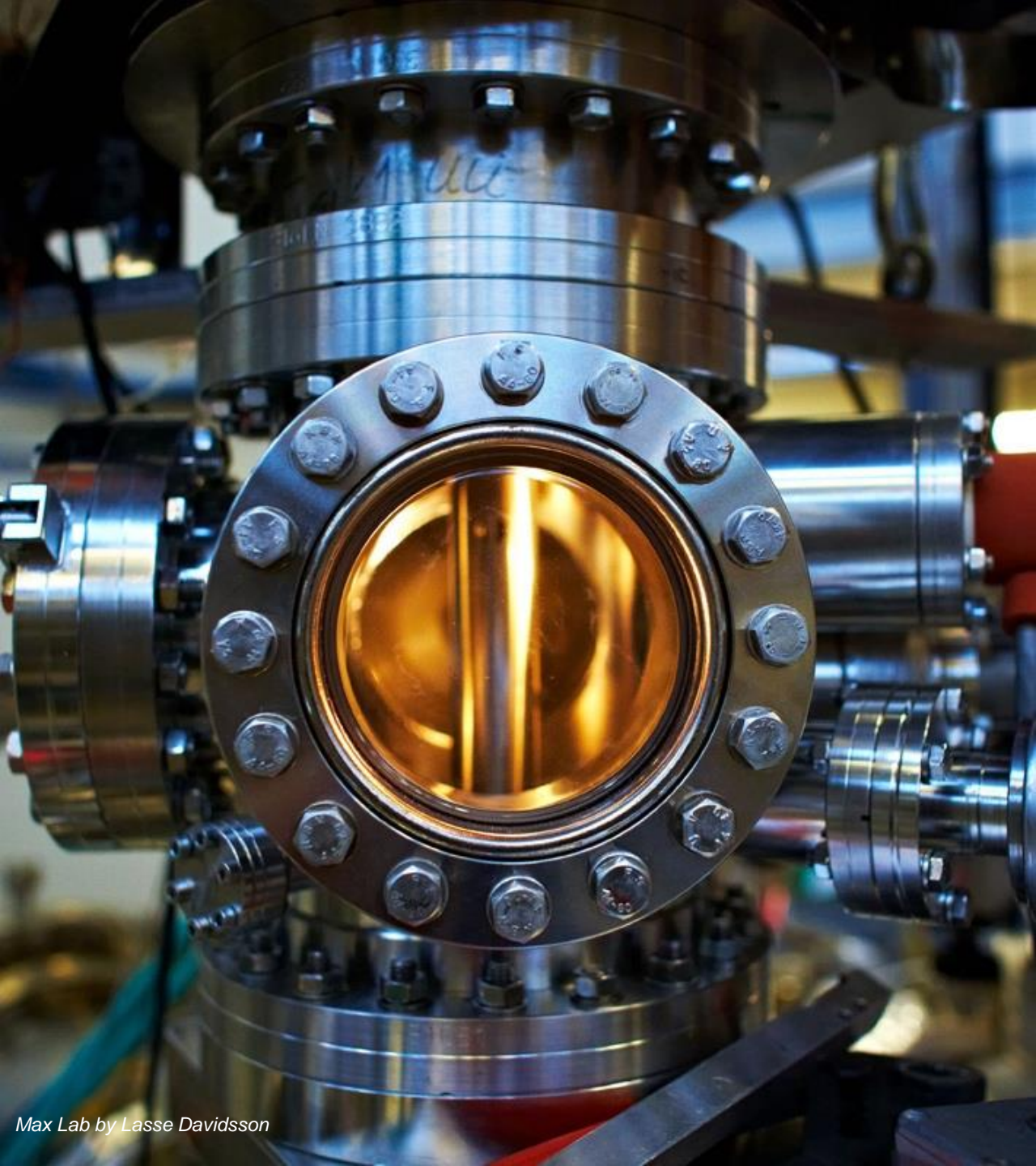
- Mobilising efforts around six areas of specialisation: Tech, Food, Life science & health, Smart sustainable cities, Advanced material & manufacturing, ESS, MAX IV & innovation system Science Village
- Improved co-ordination of the innovation system.
- Direct support - digitalisation, green transformation, innovation support, internationalisation, scale-up



FIRS Advanced materials and manufacturing Group

- Anders Mikkelsen, NanoLund, LU
- Camilla Dahlin, IUC Syd
- Cecilia Svensson, Perstorp, Chairwoman
- Ida Åstrand, Region Skåne
- Marie Malmberg Lavsén, Packbridge
- Paul Davidsson, MAU





Advanced materials and manufacturing industry

(incl ESS & Max IV)

- The **global demand for advanced materials is increasing** due to rapid industrialisation and the market is expected to grow at a CAGR of **5.1 % 2018–2024**
- Skåne's **advanced materials and manufacturing industry** includes several different sub-industries such as packaging, refrigeration and ventilation technology, chemistry, plastics, and rubber
- The **manufacturing industry is currently transitioning** from unskilled to qualified jobs and many companies are investing in various forms of **smart automation and digitalisation**
- **ESS and MAX IV are two globally renowned research facilities** attracting international research and interest, increasing attractiveness, and leading to an **influx of skills to the Skåne region**

Top 5 prioritization areas for Advanced materials and manufacturing industry

1. Accelerate the access to test- demo and development: material innovations, digital products and production processes
2. Promote Lifelong Learning
3. Connect industry needs and research
4. Create more networking possibilities and deepen the knowledge sharing among more industry actors
5. Facilitate more cooperation initiatives and 'coopetition' to reach Net-zero emissions in the industry



Initiatives

1. Communication
2. Cooperation in EU
3. Initiatives for strategic project financing





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Syd
Industriellt utvecklingscentrum

TOGETHER

WE PROMOTE SUSTAINABLE
MANUFACTURING INDUSTRY
IN SKÅNE





IUC Syd is one of only
four clusters in Sweden
with gold certification,
and the only one
focusing on
manufacturing industry.

Gold certification

The ESCAA gold certification shows that IUC Syd maintains the highest quality.

Cluster
Management
Excellence
CLUSTER EXCELLENCE



Three focus areas

Three main focus areas that are tailored to meet the specific needs, challenges, and inquiries of individual companies.



Technology



Business strategy



Competencies



Our strengths



- **We work closely** with companies and actively engage with industrial businesses in Skåne, responding to their needs and identifying innovative development initiatives.
- **We create value** for members by serving as a neutral and distinctive platform that facilitates interactions between businesses, academic institutions, and public sector organisations.
- **We are committed** to fostering long-term, competitive, and innovative growth in the region, while also promoting sustainable development among small and medium-sized industrial enterprises.





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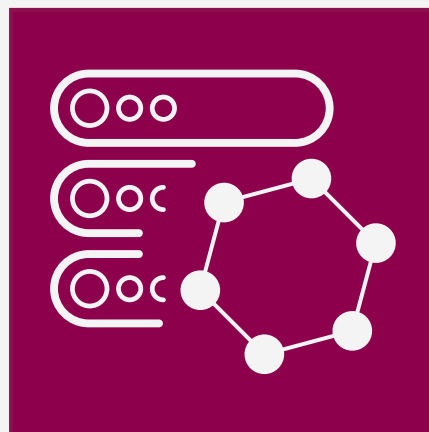
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Sustainable production

**-as pilot project becomming a new project
together with Lunds university**

CAMILLA DAHLIN vice president IUC Syd and member of FIRS-gruppen AMT

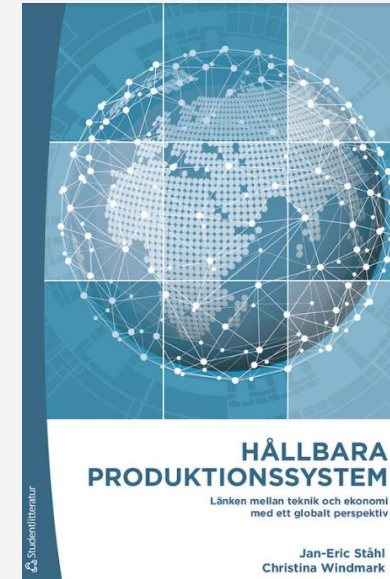
FIRS | FORSKNINGS- &
INNOVATIONSRÅDET
I SKÅNE

Sustainable production system

-Aimed at manufacturing companies

Link between technology and economics with a global perspective.

- **We create 12 digital workshops,**
- -Jan-Eric Ståhl Professor at industrial production in Lund university.
- -Christina Windmark, PhD in Manufacturing Systems and its Economic
- -Camilla Dahlin, Business developer at IUC Syd as a facilitator



Jan-Eric Ståhl



Christina Windmark

3 basic, 9 other workshops

First Seminar: Systematic production analysis

Second Seminar: Cost models

Third Seminar: Cost simulation

The others example; Quotations and pricing, Production optimization, Sustainable manufacturing, Trends of localization of production, Business integration and management.

45 minutes theory, 45 minutes exchange of experiences,

2 workshops every month, during 6 months.

Seminarium 1, den 27/10 kl 0900-1030

Systematisk produktionsanalys

- Vad är resurseffektiv produktion?
- Hur mäter vi resurseffektiv produktion?
- Vad är resultat och vad är verkan, vilka faktorer styr?
- Metod för produktionsuppföljning – Systematisk ProduktionsAnalys, SPA.

Faktorgrupper A-G och H	Resultatparametrar				Σ Faktor
	Kvalitets- parametrar Q ₁ , Q ₂ , Q ₃ ...	Stillestånds- parametrar Q ₁ , Q ₂ , Q ₃ ...	Takt- parametrar P ₁ , P ₂ , P ₃ ...	Miljö- och kretsloppsp. MK ₁ , MK ₂ , MK ₃ ...	
A. Verktyg och verktygssystem					↓
B. Arbetsmaterial	P1		P3	P4	
C. Process och förädling					
D. Personal och organisation		P2			
E. Slitage och underhåll					
F. Speciella faktorer					
G. Kringutrustning och automation					
H. Okända faktorer					
Σ Resultatparameter	→				

Sustainable production

Pilot projects result

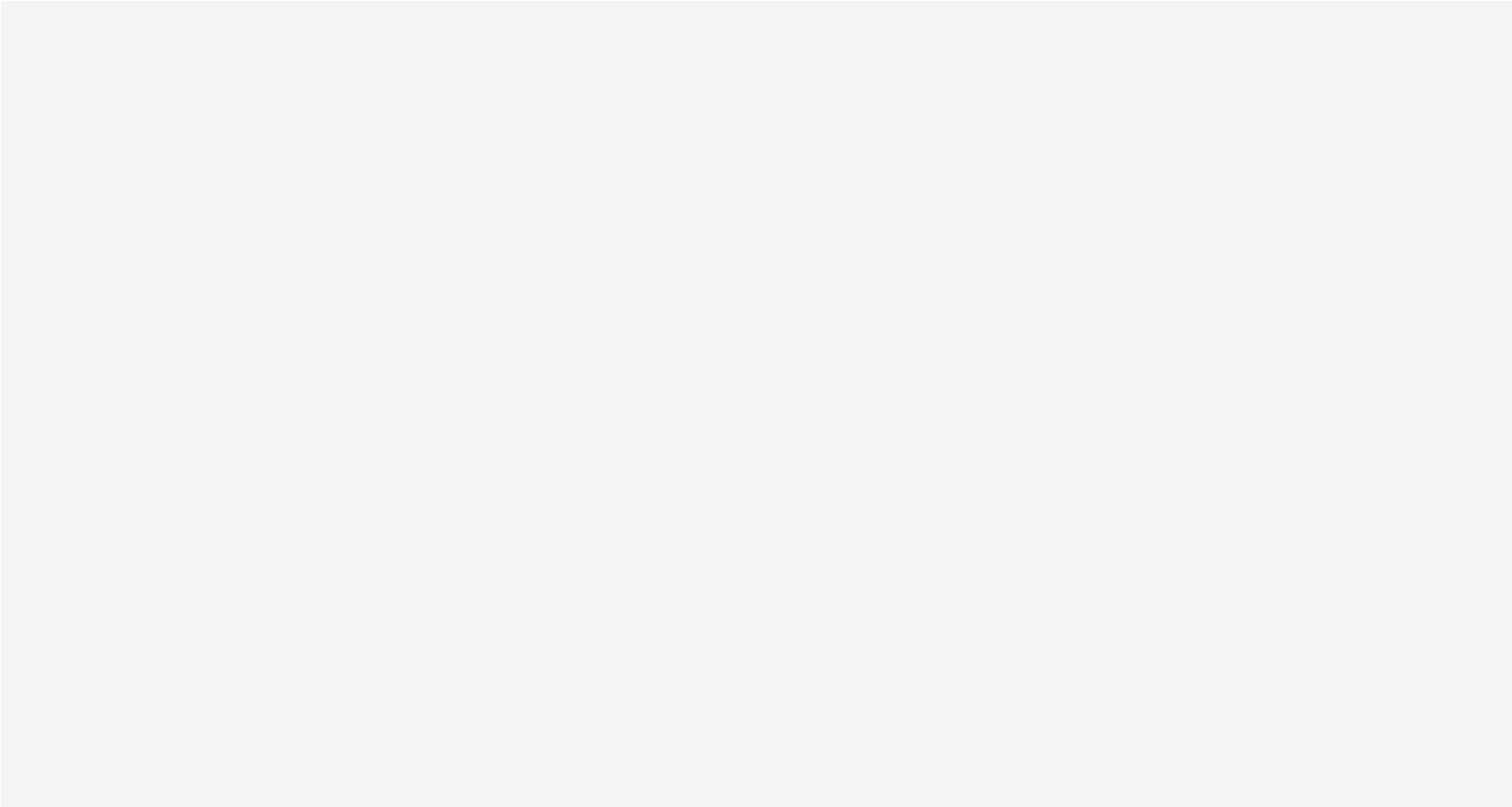
-45 individuals participated from 26 different companies.

-more than 90% felt that they could use the knowledge directly in their work

-100% want us to contact them again if we will start similar workshops

-4 master theses and 1 project







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