Nordic Network for Industrial and Urban Symbiosis (IUS)



Murat Mirata
23 November 2017



Industrial and Urban Symbiosis (IUS) research group in Linköping University

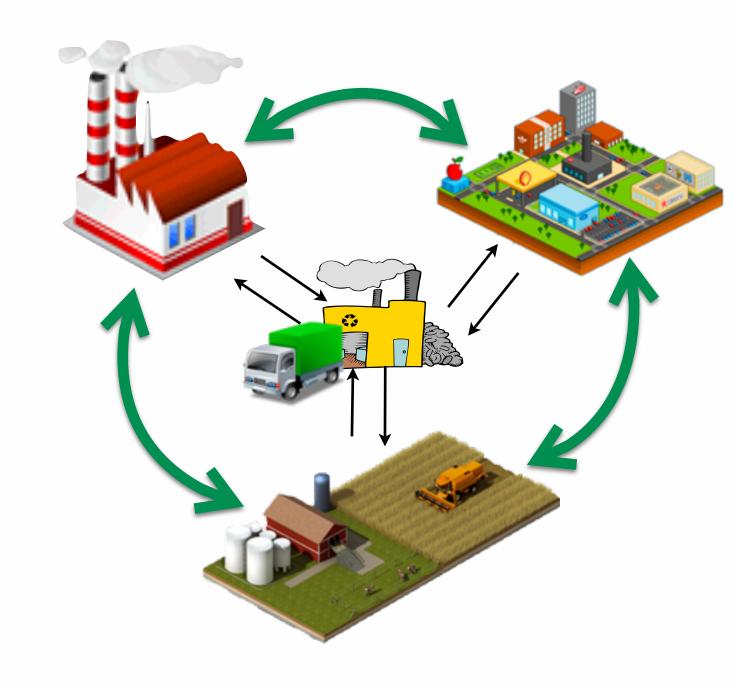
- Dedicated research & education on IUS.
- Team has 17+ years of experience with understanding development and performance, and facilitation in Europe & Sweden
- Supporting practical implementation of IUS for bio-based and circular economies
- Master & PhD level education on the topic
- Maintain a web-portal of Swedish IUS cases
- Birth place of the Swedish and Nordic IUS networks and co-leader of both developments.





Industrial and Urban Symbiosis

Innovative multi-actor, cross-sectoral collaboration processes—primarily at local/regional levels—and resulting collaborative innovations that meet industrial and societal needs more sustainably.









Increasing number of local/regional programs











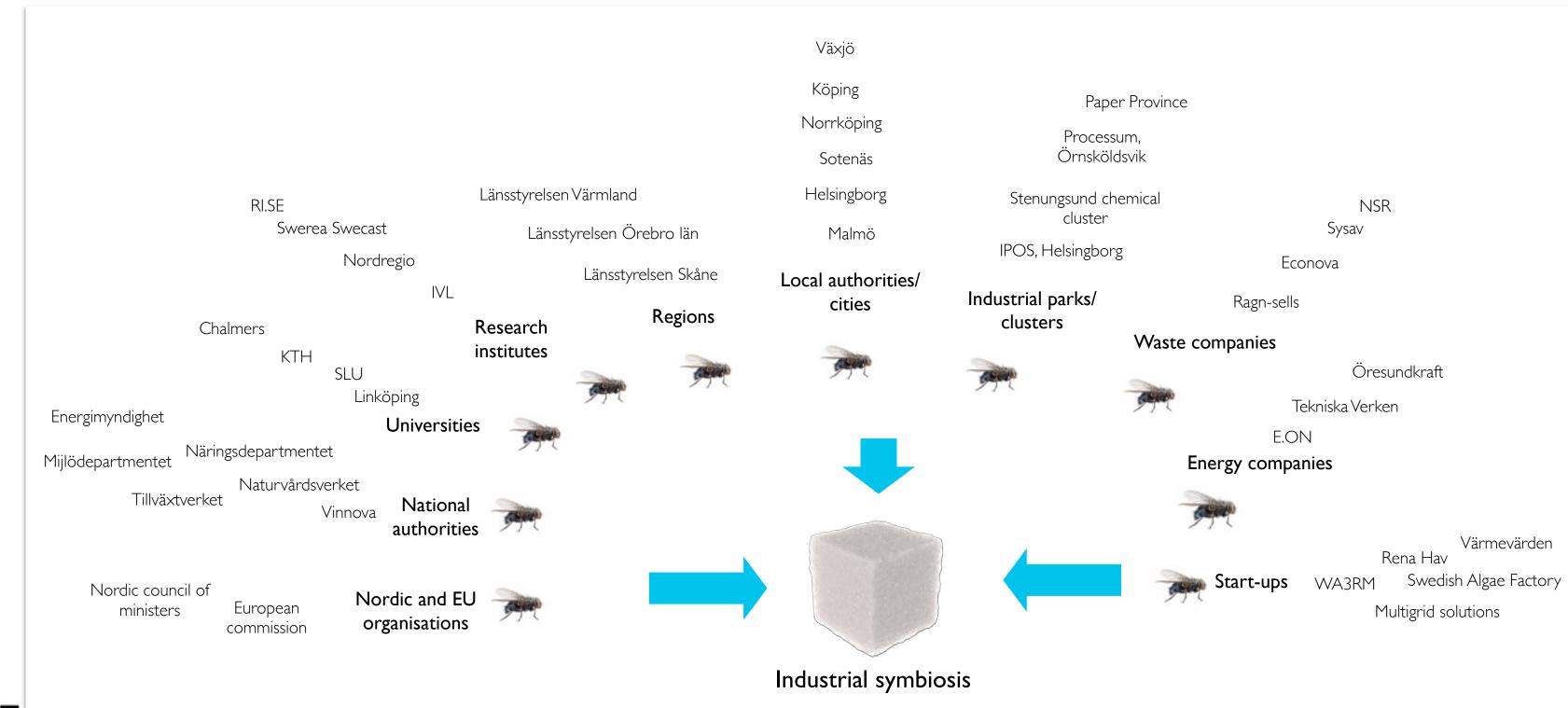










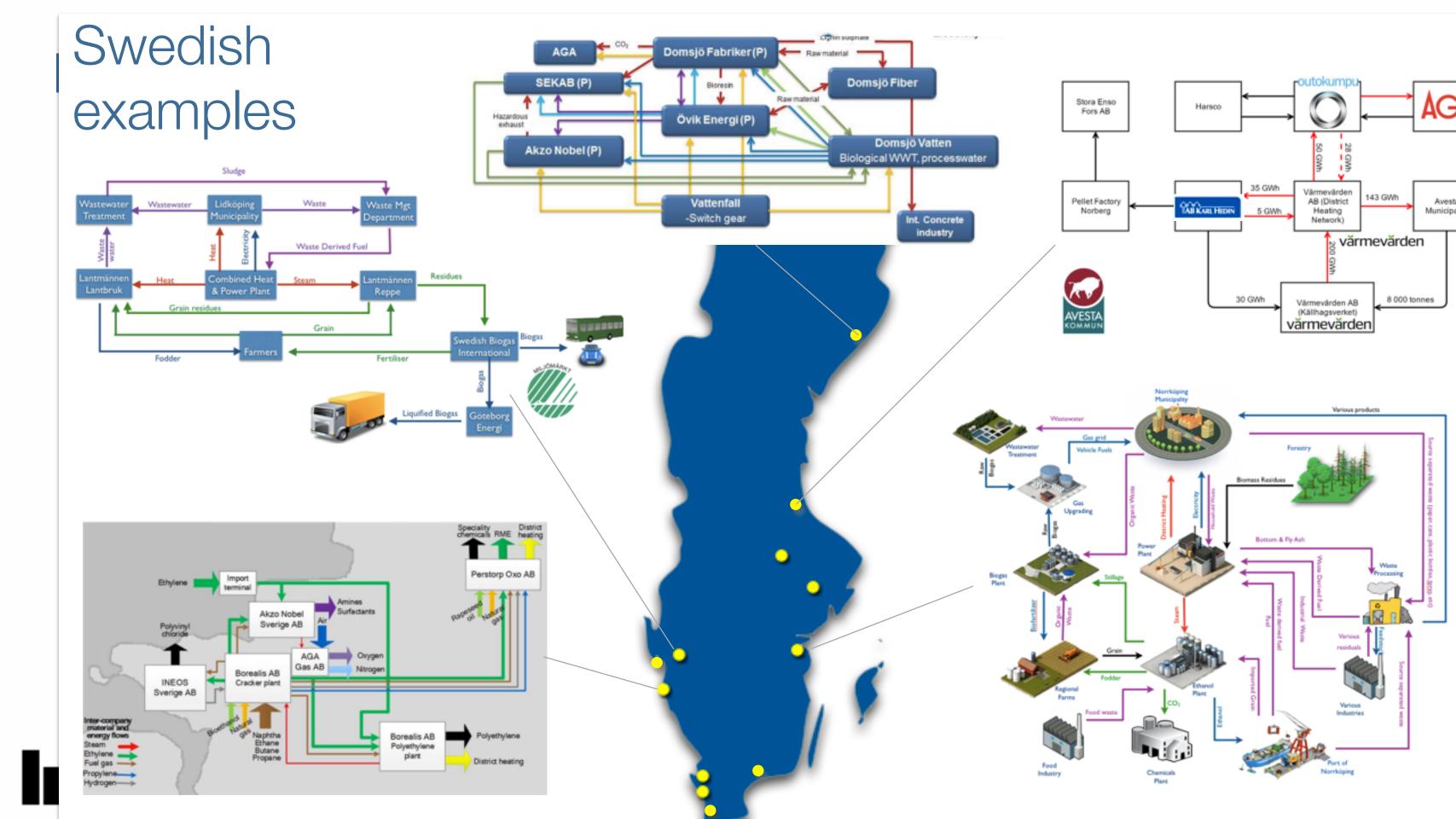






Substantial practical experience, insights & competencies





Increasing private & public interest for systemic support

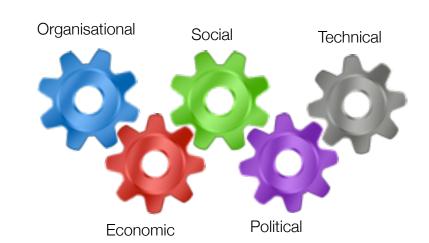
Substantial practical experience, insights & competencies





LINKÖPING UNIVERSITY

Key success factors & barriers





Effective support functions and approaches













Analytical tools





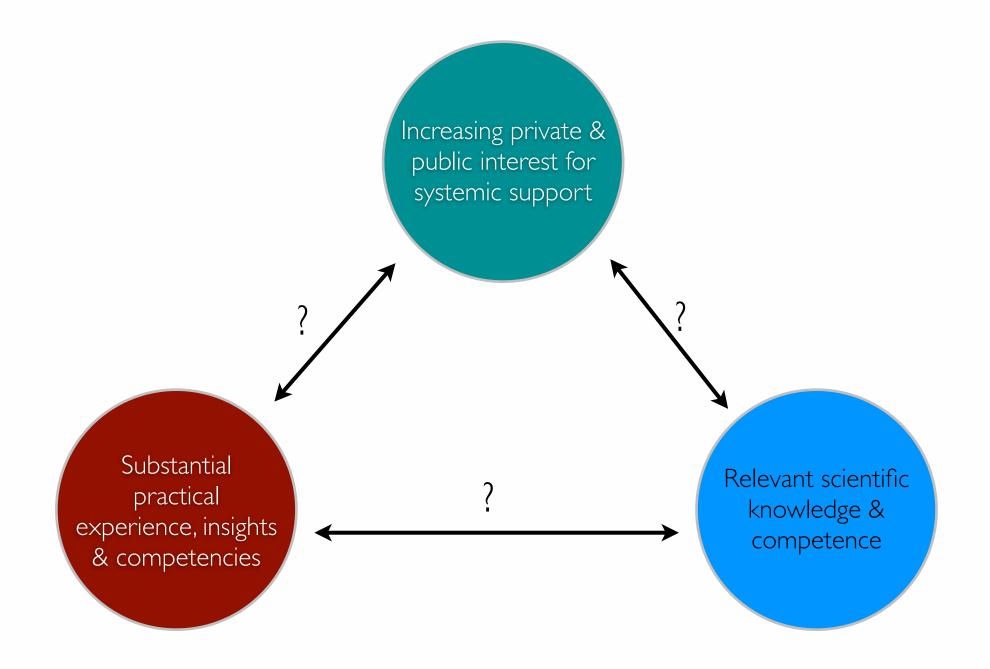
Business models

Specialised technologies





Expert networks



Networks & networking

Exchange, sharing, generation, and utilisation of individual and collective resources enabling superior

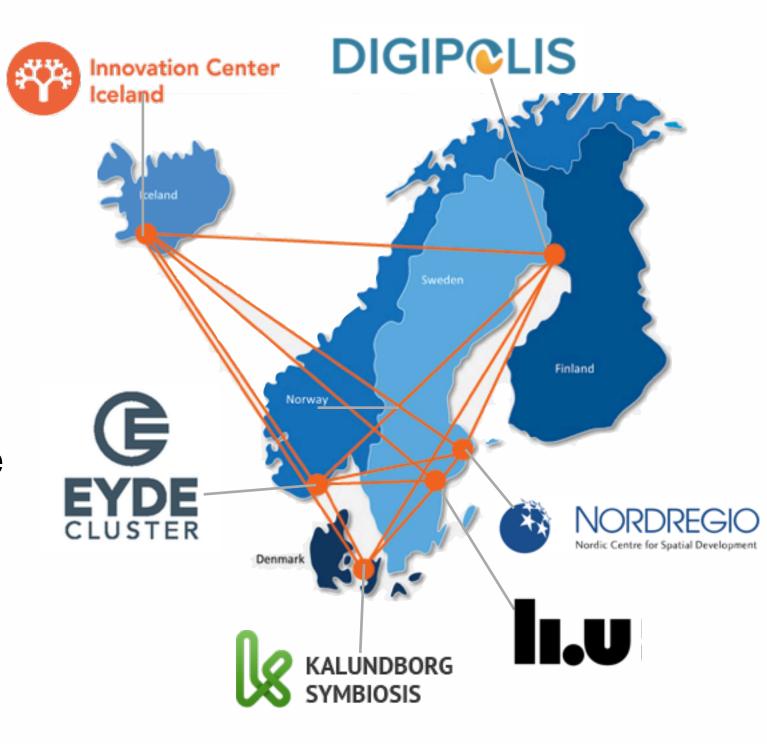


Why a Nordic Network?

Similar dynamic - inadequate communication and cooperation presents untapped potential.

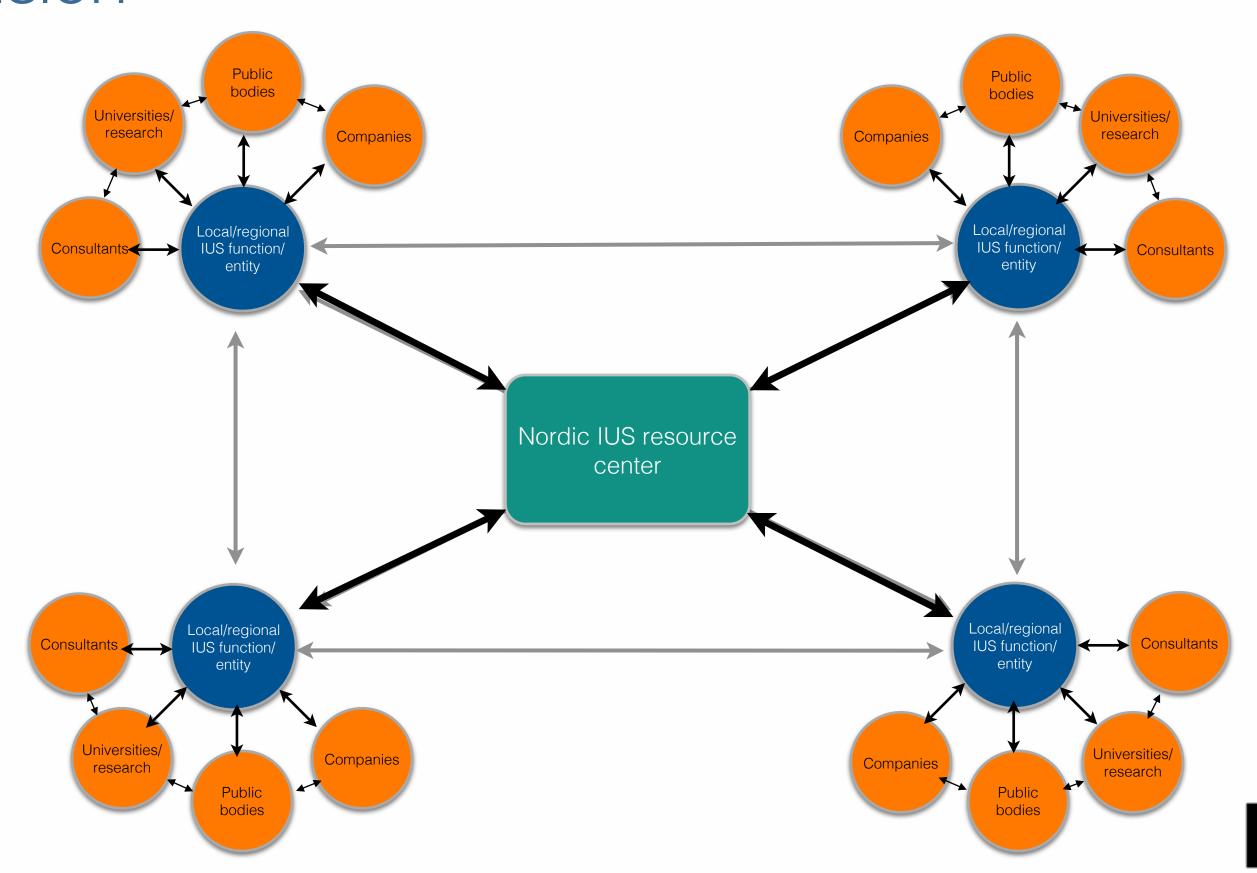
- A healthy balance of similarities & differences
- Advanced with IUS practices and have a unique understanding/interpretation of the concept
- Common values & institutional structures
- Compatible needs and capabilities among regions/actors
- Potential to by-pass political/bureaucratic traffic jams at the national levels





Our vision

Murat Mirata





Nordic IUS network & Resource Center

Main Goal: Supporting practical IUS developments in Nordic regions.



Key Objectives

Build/enhance regional capacity to support IUS

Improve knowledge creation, cooperation, & learning

Develop & diffuse tools benefiting all members

Form a common & amplified voice towards key actors

Improve national & international profiling



Nordic Network for Industrial & Urban Symbiosis (Nordic-IUS)

















What we are?

An informal entity empowering actors interested in practical IUS developments, and moving towards a vision.

Members & membership?

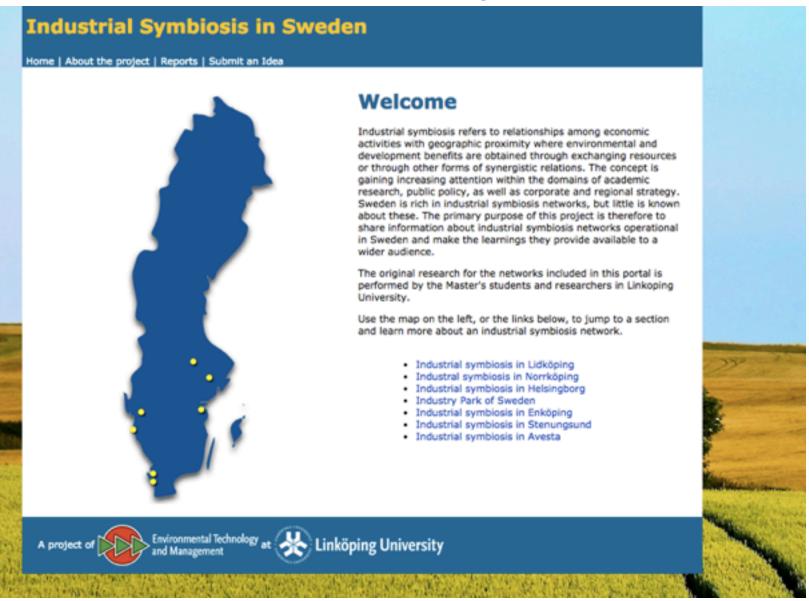
Actors with a genuine interest in practical IUS developments and with concrete ideas on how to contribute and/or benefit from the network.

Members contribute with their own resources - while we continue to seek additional resources



What do we do?

http://www.industriellekologi.se/symbiosis/



Create and diffuse new knowledge (and in the process also raise the profile of good practices)



Link people and places



Communicate and support each other as needed



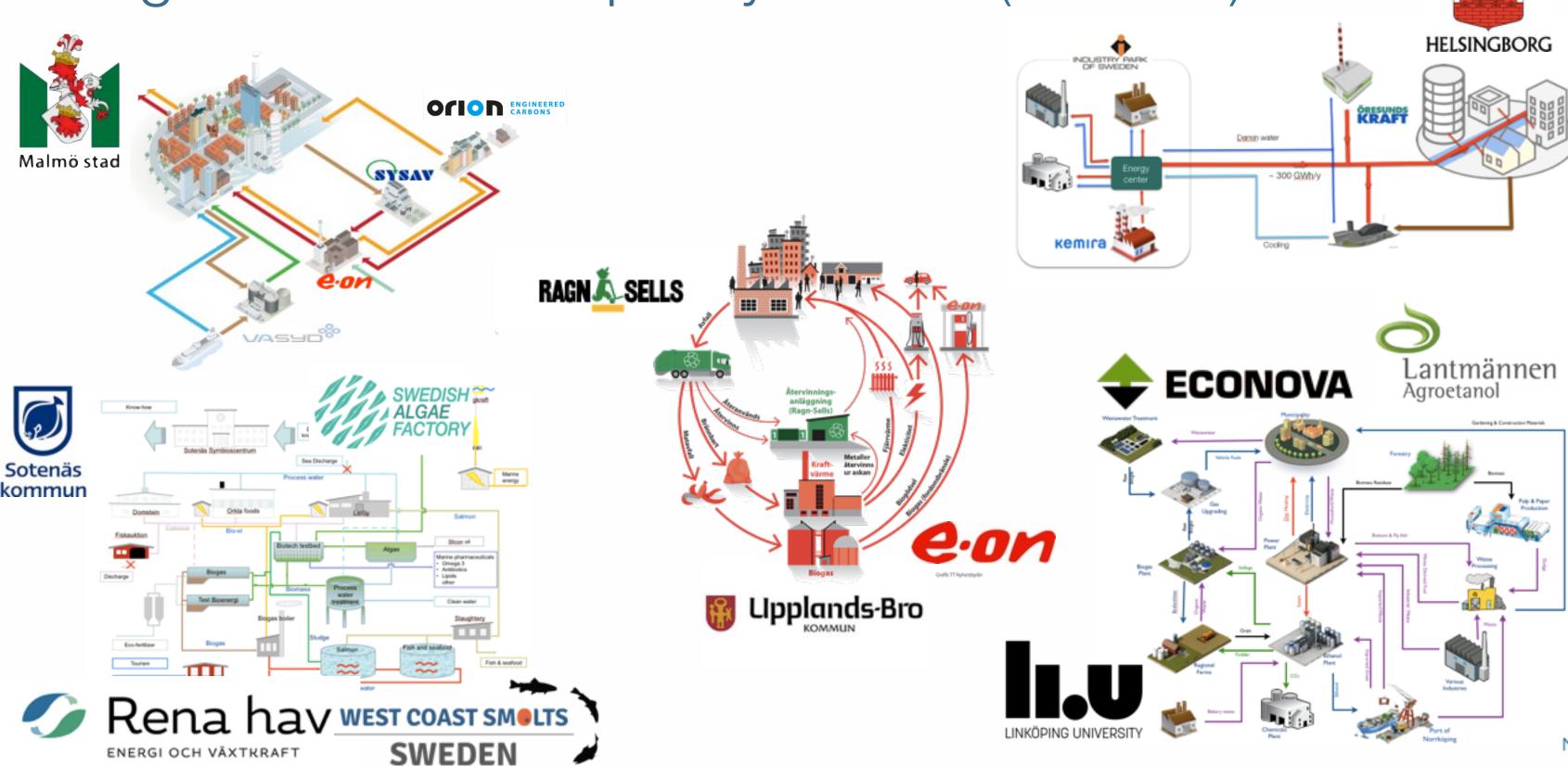
Organise regular events



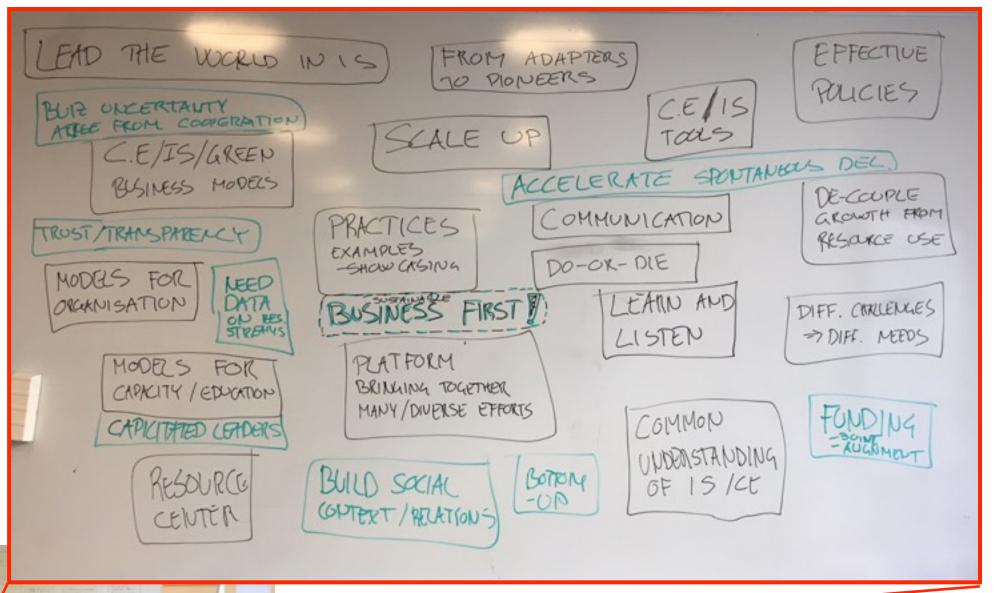
Jointly develop projects



E.g. Institutional capacity for IUS (Vinnova)



A recent example







Thank you



murat.mirata@liu.se +46 734 613 139

