

REDOL Replicator cities



Redol
ARAON'S REGIONAL HUB
FOR CIRCULARITY

Regional Municipality of Bornholm

Anine W. Selander, BOFA

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Local Context and I-US Background

Bornholm:

- Approx. 40,000 inhabitants
- Popular tourist destination, over 700,000 visitors per year
- BOFA is the solid waste management authority and service provider
- Waste incineration plant, landfilling site, recycling center, waste processing center, hazardous waste transfer
- Vision of achieving zero waste by 2032
- Industrial–Urban Symbiosis (I-US) is integrated in achieving the vision, and several actors, especially businesses are essential.





Local Context and I-US Background

- What steps you have taken so far, considering both *your work within REDOL and any previous initiatives* (even if very initial).
 - Workshops
 - Dialogue
 - Research and networking
 - Dissemination – very effective
 - Residual waste analysis
- If applicable: Do you have any ongoing or past projects related to Construction and Demolition Waste (CDW)?
 - Crushed and used as groundlaying
 - Material bank (BOMCØKER)
 - Demonstrations and inspiration catalogue on what to use the materials for
 - Smaller funding for trials with new building materials



Barriers and bottlenecks

- Regulatory or administrative challenges
 - E.g. local planning.
 - Central approval of Vision 2032, but delivery depends on multiple municipal units
 - Lack of incentives
 - Coordination failure
- Funding for larger projects is difficult, but small funds are more reachable
- Coordination across departments
 - Even internally, it is important to talk together
 - Network is golden
- Challenges engaging local stakeholders or industries
 - Many companies can be in a lock-in financially or culturally (social barrier)
- Any example of a barrier you faced
 - Contract with local treatment plant for food waste was lost for 8 years because of a lacking pre-treatment technology (technological or financial barrier)



Funding and regulation

- How easy (or difficult) has it been to look for funding for I-US?
 - Very difficult
- Are existing regulations helping or slowing down your progress?
 - Islands without road connection have special exceptions with regards to regulation of e.g. waste management.
- What regulatory or administrative change would make the biggest difference for you?
 - Make it easier for small entrepreneurs to scale up.
 - More support and investment possibilities for businesses to invest in technologies.



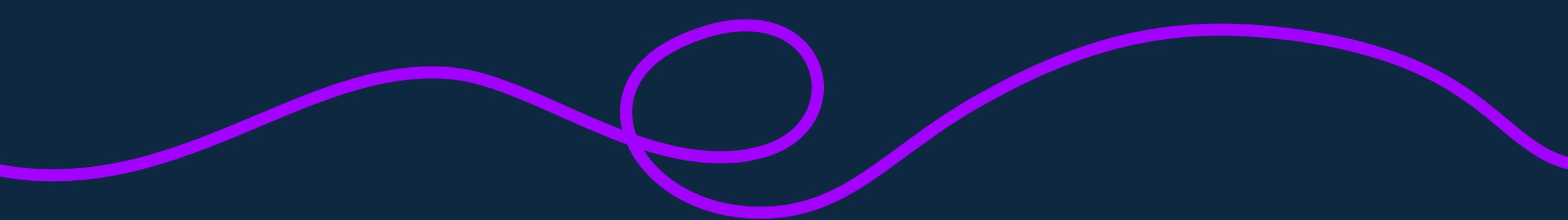
Collaboration with Industries

- In your experience, are large industries open to collaboration?
 - It depends:
 - (Yes) Well-known supermarket agreed to test a LivingLab for package free dry products.
 - (No) Local dairy company rejected possible test case as not economically attractive and low potential for capitalisation.
 - (Yes) A brick cleaning company contracted a mobile cleaning system, open for collaboration and initiative to make it a success.
- What support do you need from industries to progress?
 - Willingness to take risks, however can be difficult.
- What can cities offer in return (data, contracts, policy support...)?
 - Contracts and policy support, firstmover if not undertaken by the industry.



Next steps (optional)

- What are your next steps for advancing I-US?
 - Continue dialogue
 - Test, ask and consult businesses that are affected by changes, it gives them the feeling of ownership.
- What support or conditions would help you progress?
 - Backing up by live examples of successful I-US cases.
 - A physical HUB



Thank you!

Anine W. Selander, BOFA

aws@bofa.dk

