INDUSTRIAL SYMBIOSIS EXCHANGES

Developing a guideline to realization

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Much research on barriers and enabling factors to IS take a systemic approach

Need to take systemic knowledge to company level
  - How to make current knowledge accessible to companies?
HOW?

- Literature review
- Barriers and enabling factors
- Practitioners interview
- Case study

Guideline
- Uncertain profit and non-core competencies → low priority
- Lack of knowledge of neighboring companies

+ Expanding the company’s network
+ Facilitators assist with resource demanding tasks
+ Expand company focus to include by-product streams
BARRIERS AND ENABLING FACTORS - TECHNICAL ISSUES

- Mismatch of quantities
+/- Differences between companies
+ Collection schemes
+ Facilitation programs
BARRIERS AND ENABLING FACTORS
- COLLABORATION

-/+Trust
-/+Difference in company size
- Difference in priority of collaboration
Most of the barriers found corresponds with the literature

However, enabling factors receive little attention in previous literature
GUIDELINE CONTENT (I)

- Basic knowledge of the concept of IS
- Examples of benefits of IS from concrete projects
Overview of facilitation programs (if such programs are available). The overview should include:

- Services offered by the program
- Possibilities for financial support, including:
  - Amount offered
  - Conditions
  - Deadlines for application
- Contact information
GUIDELINE CONTENT (III)

What to be aware of if the companies take on IS themselves

- How to start thinking in terms of IS and circular economy
- Ways to expand ones network
- Barriers to communication due to company size and working processes
- Looking into technical aspects of the project
- Getting an overview of the relevant...
  - Legislation
  - Incentives
  - Area-specific regulations
- Ways to deal with a mismatch of quantities
How to enable companies, researchers and politicians to better think in terms of circular economy?