



Developing a strong innovation ecosystem for circular economy with VTT's new Bioruukki Pilot Centre

Mika Härkönen VTT Technical Research Centre of Finland Ltd SPIRE stakeholder workshop, Brussels 2.10.2018

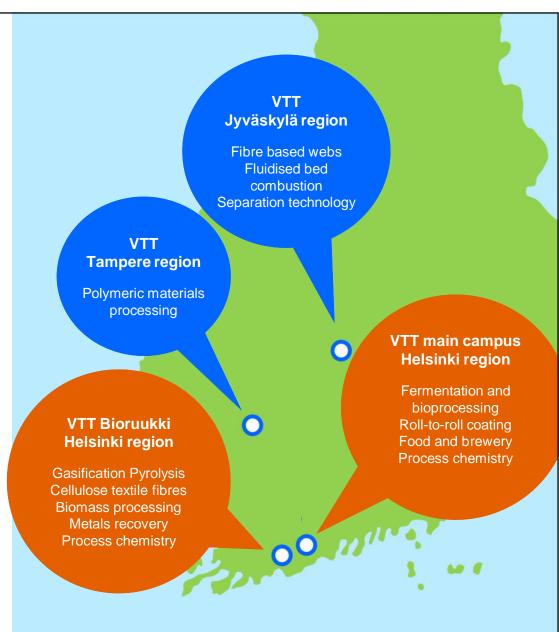


From laboratory via piloting to markets

- Piloting enables crossing the "valley of death" for commercialization.
- New process industry innovations often require extensive piloting.
- Open access Shared Pilot Facilities:
 - Competence in piloting and scale-up
 - Time saving with ready-to-use facilities
 - Cost savings by sharing the investment and operation costs

VTT pilot facilities in bio and circular economy

- Regional innovation centres with national, European and global impact.
- Helsinki region forms a strong circular economy knowledge hub by VTT and partners -"Hub for circularity"



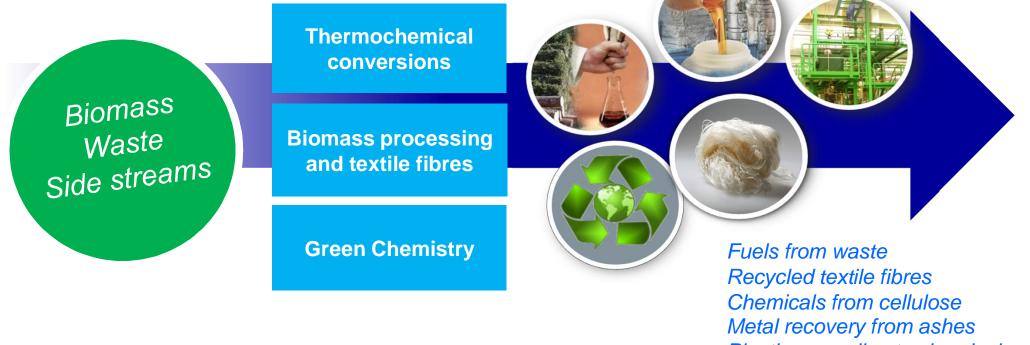
Our innovation ecosystem partners

- Process industry
- Technology companies
- SMEs, Start-ups
- RTOs and universities
- Regions and cities
- European pilot networks



VTT Bioruukki Pilot Centre

An integrated enabler to accelerate higher value business in bio and circular economy



Plastics recycling to chemicals Process data and digitalisation

Demonstration of post-consumer textile waste recycling at VTT Bioruukki Pilot Centre

Textile fibre recycling demonstrations

- Start-up company to scale-up.
- Process industry and fashion brands to commercialise.
- VTT Bioruukki provides the infra and expertise.

Textile fibre spinning pilot line

- Recycling of post-consumer textile waste.
- The key process steps in the production chain:
 - raw material pre-treatment,
 - chemical modification and fibre spinning,
 - staple fibre post-treatment.

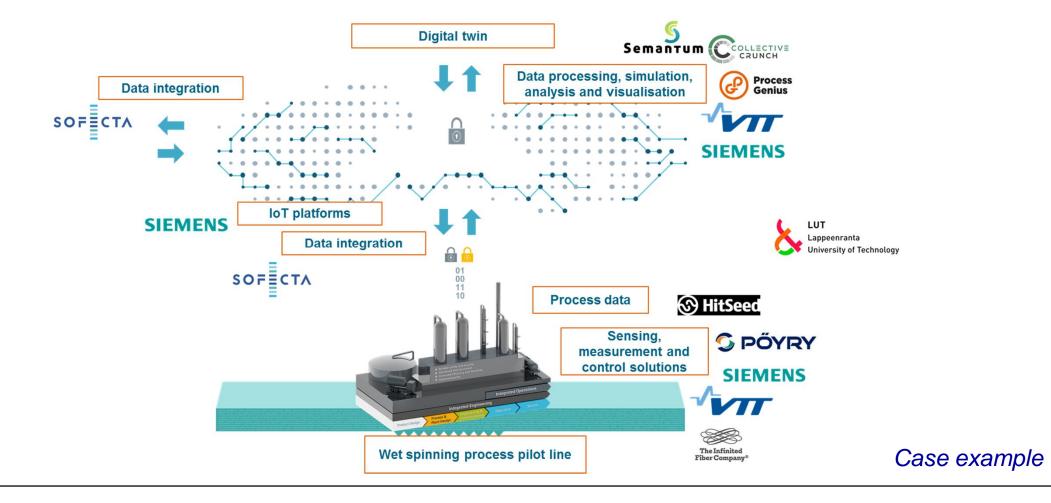
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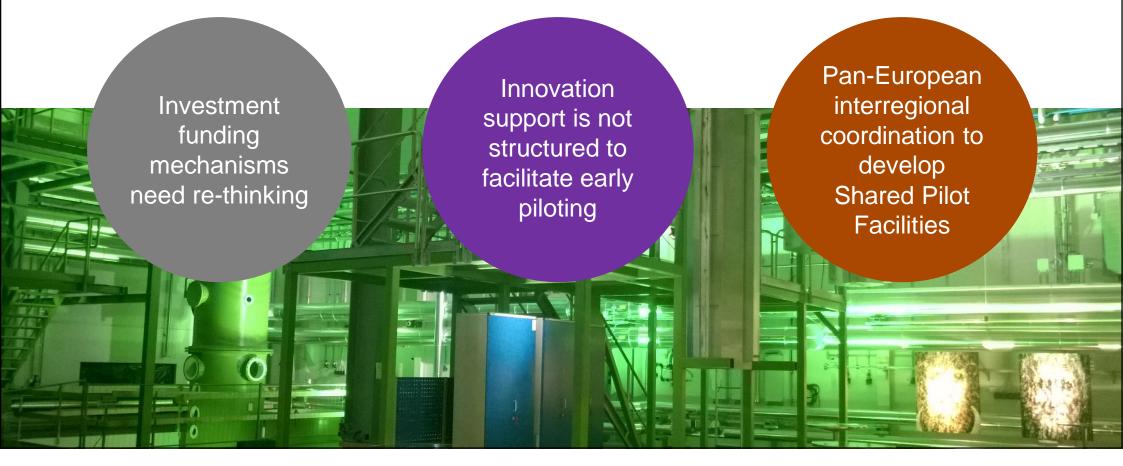
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Case example

Demonstration platform for new digital solutions for process industry – Digital Fibre initiative



Challenges in developing Bioruukki Pilot ecosystem



Thank you for your attention !

4.10.2018 VTT – beyond the obvious