Finnish action towards textile recycling and circular economy

Telaketju networking event 20 November 2019, Bank, Helsinki

Pirjo Heikkilä, VTT
First phase
2017-2018
Telaketju action & network

Focus of the first phase was mainly on textile recycling and business related to that – building circular ecosystem
Telaketju action & network

First phase composed of multiple projects and funding tools
Telaketju YM and Tekes projects
Telaketju YM and Tekes projects

• Focused on building ecosystem for textile recycling and circular economy
• Results summarized in https://cris.vtt.fi/en/publications/telaketju-towards-circularity-of-textiles
• More information about projects www.telaketju.fi
Second phase
2019-2021
Telaketju 2 BF project

Title: Business from circular economy of textiles”

• Coordinator: VTT Pirjo Heikkilä (pirjo.heikkila@vtt.fi, +358 40 6891443)
• Co-Innovation project of Business Finland (BF)
• Duration two years: 1.5.2019 - 31.4.2021

Targets to build business from circular economy of textiles

Scope of the project includes:
• novel circular economy business models aiming for better material efficiency and increase material and product life
• business related to textile recycling
Telaketju 2 BF project

Projects including total budgets (k€) and share (%)

- Company projects; 3920; 78%
- VTT; 699; 14%
- Turku UAS; 218; 4%
- Lahti UAS; 217; 4%
- Public R&D project
  - Total 1134 k€; 22%

Lounais-Suomen Jätehuolto
Touchpoint
Pure Waste textiles
Image Wear
Suomen Devteks
Telaketju 2 BF project

Funding (public part) including total (k€) and share (%)

- Business Finland: 681; 60%
- Companies and other organizations: 158.5; 14%
- Lahti UAS: 57; 5%
- Turku UAS: 57; 5%
- VTT: 182; 16%

Partners:
- Aijuu
- Black Moda
- Encore Ympäristöpalvelut
- Freudenberg
- Globe Hope
- Infinited Fibre Company
- Kangaskapina
- Kehräämö Mustalammas
- Kuumeri
- Mirka
- Lounais-Suomen Jätehuolto
- Nosh Company
- Paptic
- Porin Villa ja Peite
- Reima
- Sideflow
- Topper
- Vaatepuu
- Valmet
- Fida
- Nextiili
- Painovoimapaja
- PK-seudun kierrätyskeskus
- Suomen Tekstiili & Muoti
- Työn Vuoksi ry
- Verstas 247
Telaketju 2 BF project

Research work packages are focused on circular economy
Telaketju 2 BF project

**WP1 Management and networking**
We aim to build and strengthen circular ecosystem of textiles by networking both nationally and internationally.
Led by VTT

**WP2 Business models**
Novel circular business models will be studied and developed, and companies are provided with tools communicating about circular solutions within their value chain.
Led by Turku UAS
Telaketju 2 BF project

**WP3 Products and materials**
We will review effect of product design on material and products life span and recyclability, integrated product information in circular economy, as well as bio-based solutions for textiles.

Led by Lahti UAS

**WP4 Recycling**
We develop concept for textile collecting and pre-sorting, textile identifying and sorting systems, and generate classification of recycled textile materials.

Led by VTT
Telaketju 2 BF project

**WP5 Sustainability**
Environmental, social and economical sustainability are promoted in our project.
Led by Turku AMK

**WP6 Quick trials and demonstrations**
Participants of project represent various stakeholders in circular economy, which enables us to make fast experiments with novel business models, as well as demonstrate processes and products thus modelling future recycling value chains.
Led by VTT, company involvement strong
Telaketju 2 BF project

WP7 Consumers
Consumers needs to be involved in circular economy of textiles and therefore we study consumer attitudes and direct communication activities also to common public.
Led by Turku UAS

WP8 Ecosystem
We aim to increase business opportunities also by supporting ecosystem building, and review scalability and export potential of results as well as further development and research needs.
Led by VTT
For more information:

www.telaketju.fi

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