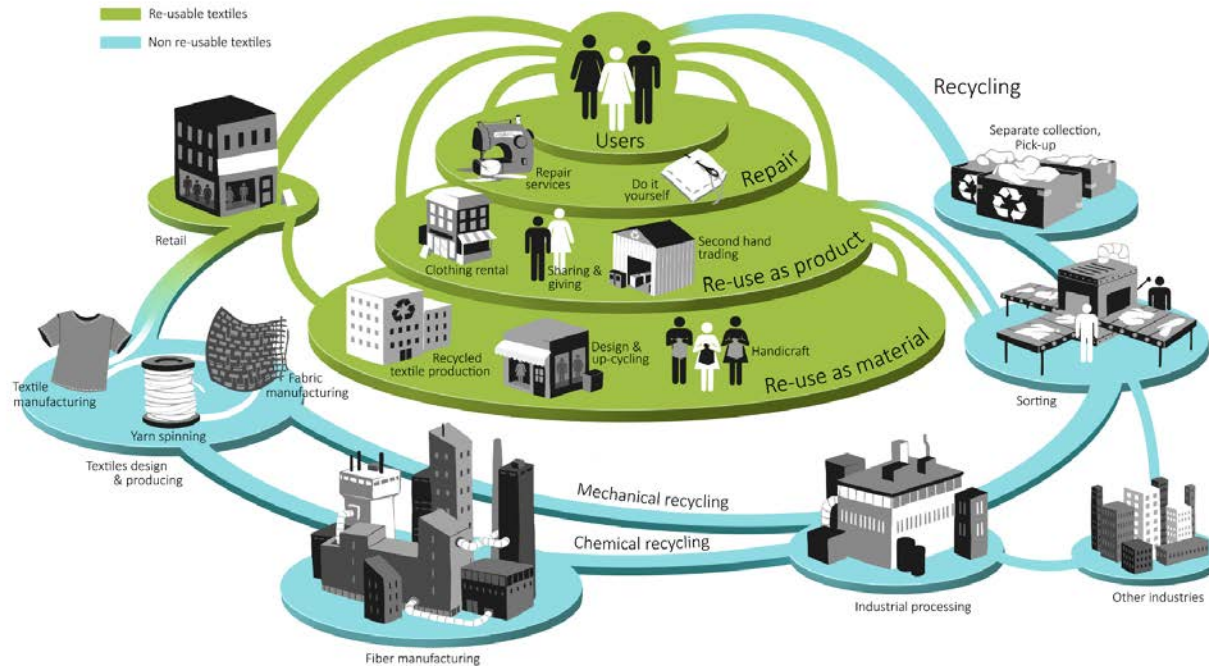
The left side of the slide features a large, abstract geometric pattern. It is composed of interlocking, three-dimensional-looking shapes in various shades of blue, green, and white, creating a complex, crystalline structure.

# Telaketju: A national approach to circular textile eco- system

**Pirjo Heikkilä**

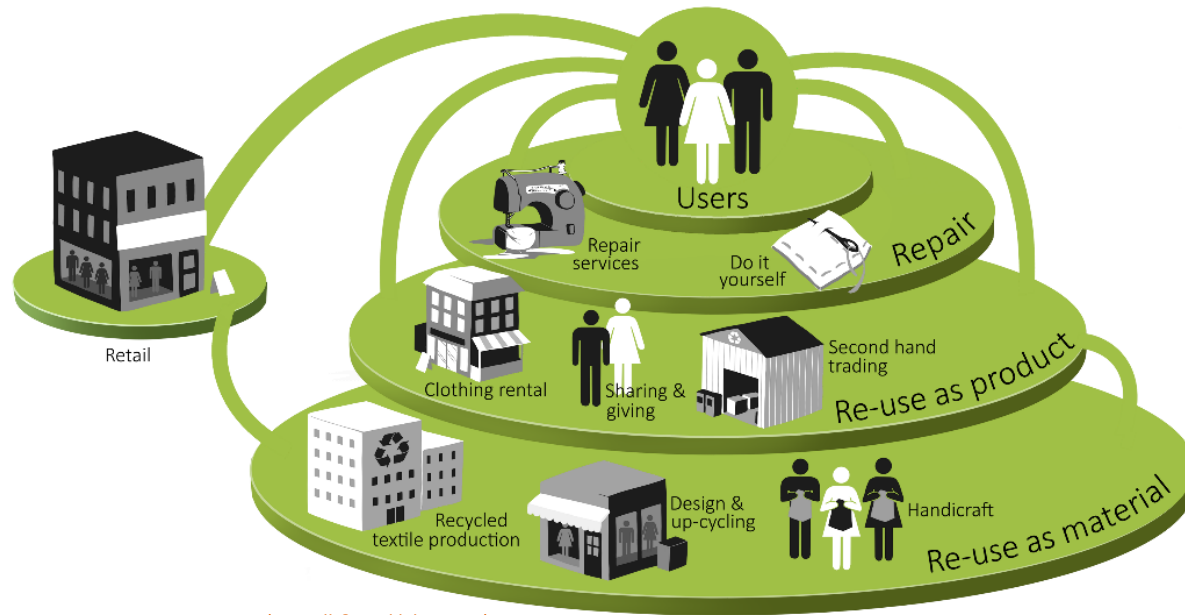
**VTT Technical Research  
Centre of Finland Ltd.**

# Model for Circular Ecosystem for Textiles



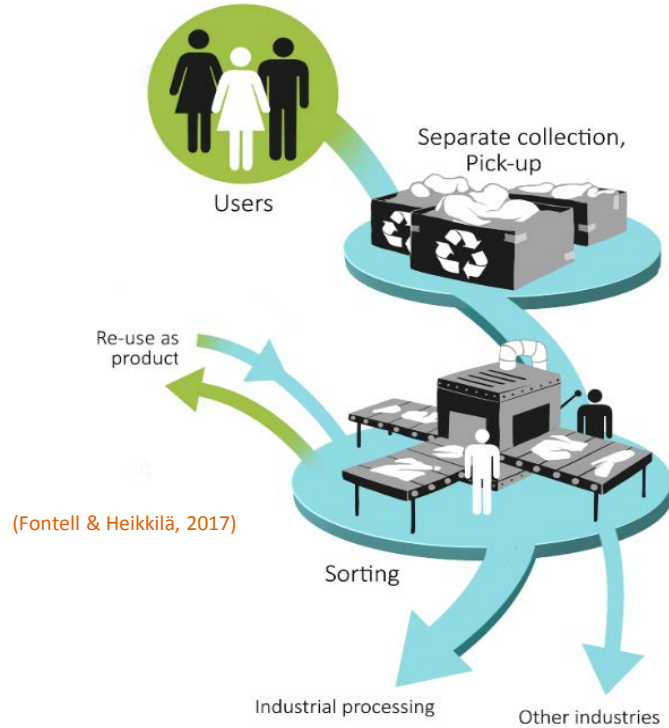
(Fontell & Heikkilä, 2017 – <https://www.vtt.fi/inf/pdf/technology/2017/T313.pdf>)

# Use, Repair and Re-Use of Textiles

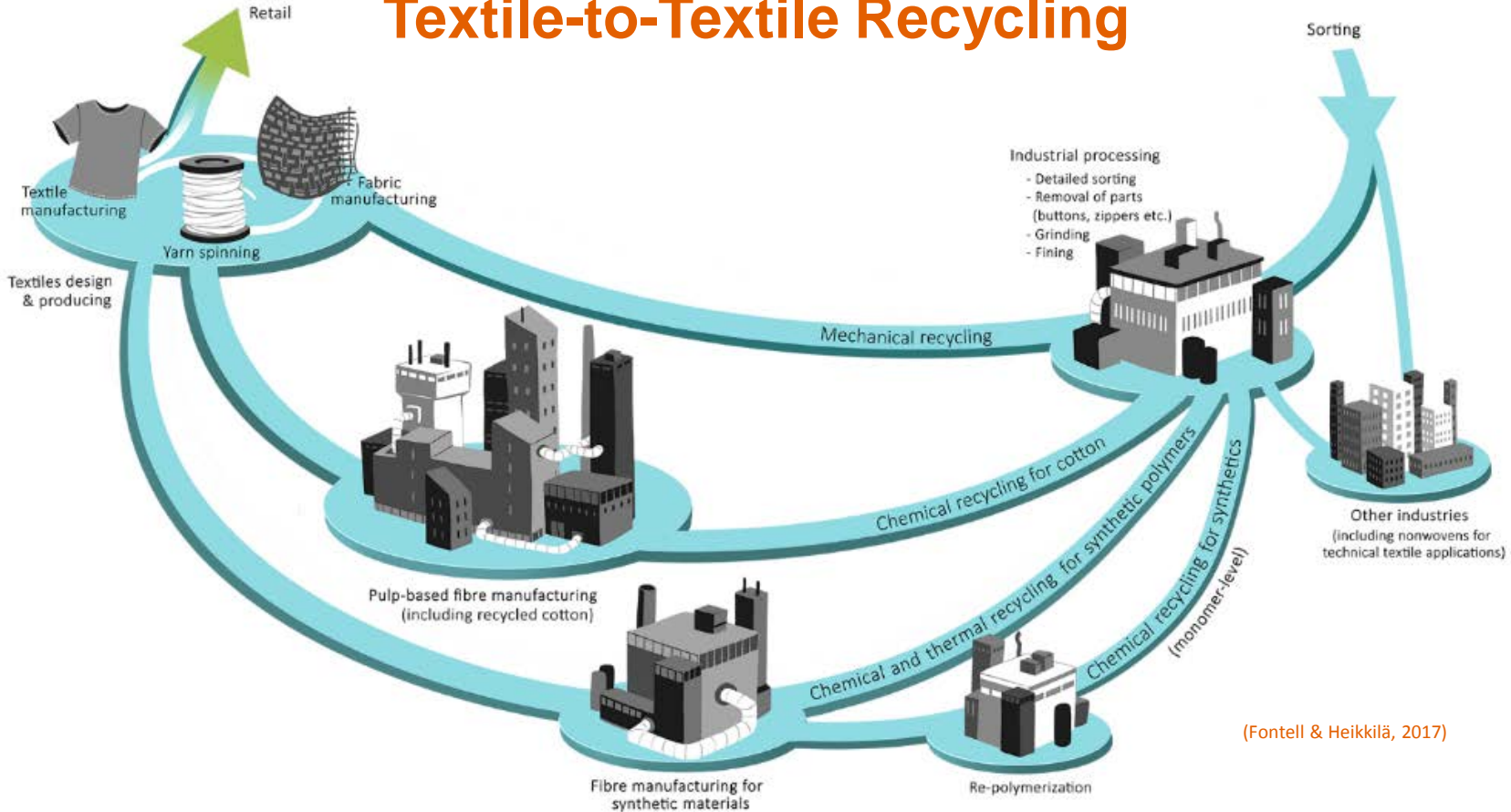


(Fontell & Heikkilä, 2017)

# Textile Collecting and Sorting

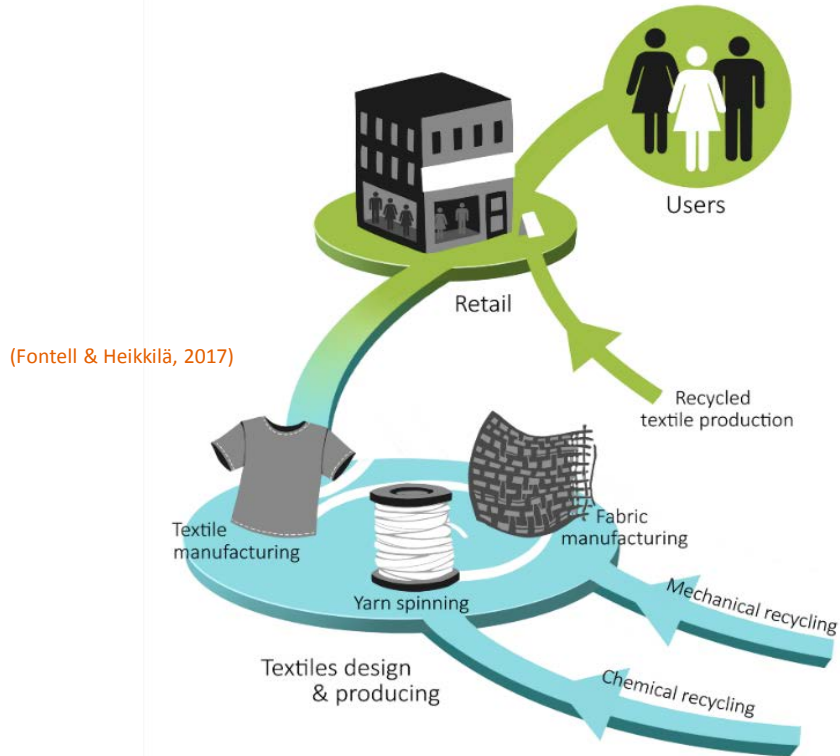


# Textile-to-Textile Recycling

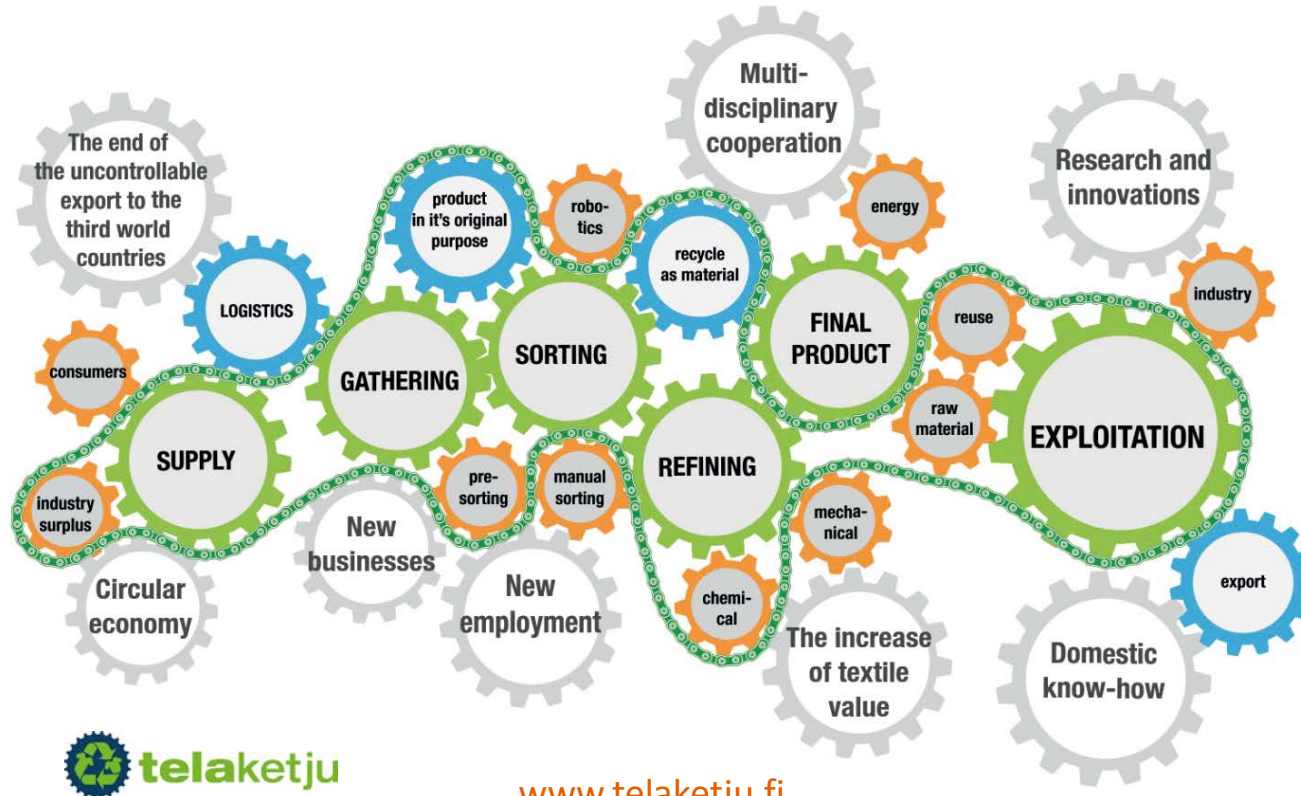


(Fontell & Heikkilä, 2017)

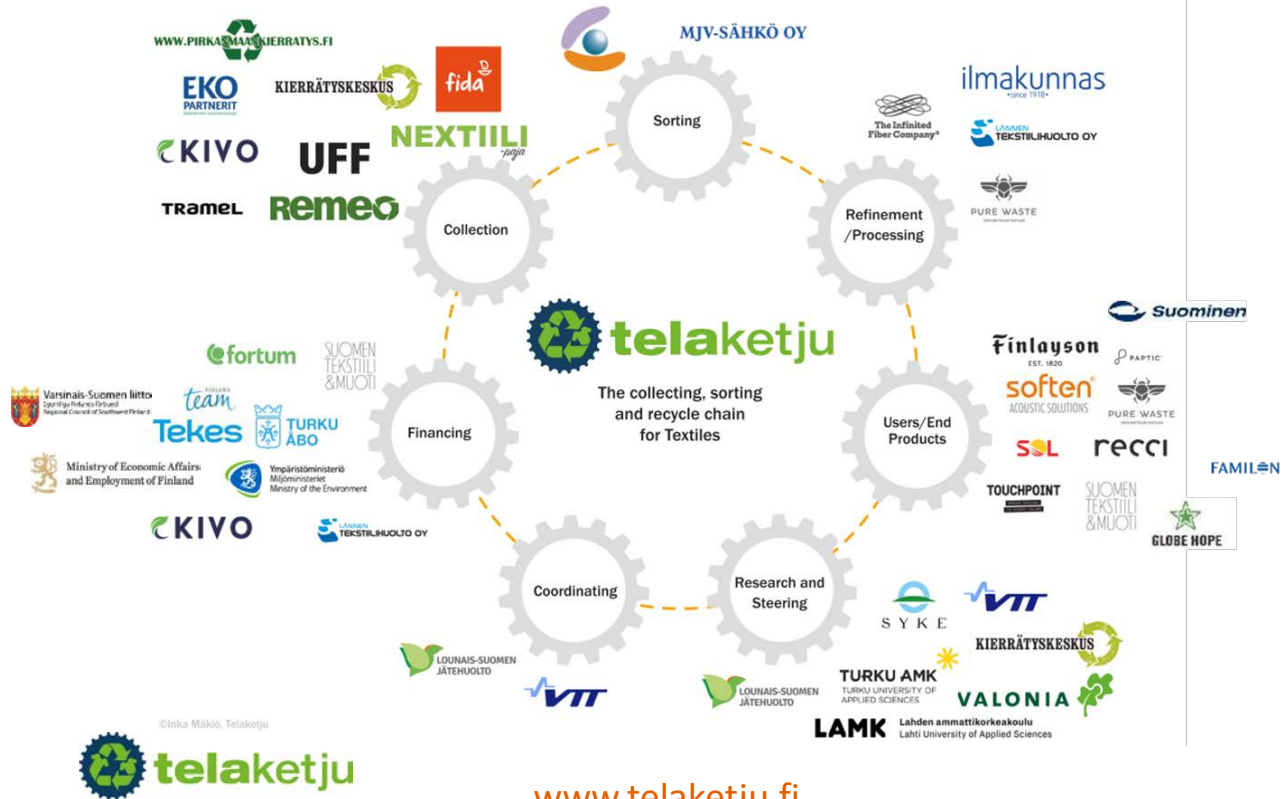
# Textiles from Recycled Fibres



# Telaketju - Ecosystem Building



# Telaketju - Ecosystem Building



# Telaketju - Ecosystem Building



Ympäristöministeriö  
Miljöministeriet  
Ministry of the Environment

Topics: Collecting, sorting and pre-processing  
Participants: Municipal waste management and recycling organizations, public participants, as well as charities.



Ministry of Economic Affairs  
and Employment of Finland



Varsinais-Suomen liitto  
Egentliga Finlands förbund  
Regional Council of Southwest Finland

Topics: Investments and markets & business planning  
Beneficiary: Municipal waste management organization in Southwest Finland

**Tekes**

**BUSINESS  
FINLAND**

Topics: R&D for processes, products, services  
Participants: Companies, Research Institutes, Academia



**telaketju**

[www.telaketju.fi](http://www.telaketju.fi)

# Ecosystem building

Circular economy – lengthening of product life & recycling of materials from non-reusable items

Changes business value chains and requires building of new kinds of ecosystems leading to new business opportunities

New technologies and innovations needed

Consumers attitudes favour circular values

Public incentives and financial support can have significant effect on this development

## Ecosystem – Multistakeholder system

Municipalities, big and small companies, non-profit organizations, social companies, ideological associations, consumers, government...

Not just textile sector operators

Different goals and operational models –  
different models for co-operation and funding

Common overall goal can be achievable!

# Thank you for your attention!

## Contact information

Pirjo Heikkilä, [pirjo.heikkila@vtt.fi](mailto:pirjo.heikkila@vtt.fi)

+358 40 689 1443