



# HOW TO PARTICIPATE IN THE BIO AND CIRCULAR FINLAND PROGRAM?

**If you have R&D needs, or if you are building an ecosystem, contact ecosystem developers**

- Tuomas Lehtinen
- Kari Keskinen

Coming 2019: Key Enabling Technologies for Biobased Products, Joint call Sweden-Finland, BioInnovation (SWE) and CLIC Innovation (FI).

- More info: Ecosystem Developer Tuomas Lehtinen, Senior advisor, Bio & Circular Economy, Business Finland

**If you are aiming at international market, you can contact**

- Pia Qvintus, Program Partner – export activities of innovative bio and circular solutions

**Business Finland Global Network**

- Werner Merzeder (Europe)
- Jari Seilonen (Asia)
- Anna Niittylä or Matti Landin (Latin America)



# COMPETITIVENESS WITH CIRCULARITY

## CIRCULAR ECONOMY PLAYBOOK

Circular Economy business  
models for Finnish SMEs in the  
manufacturing industries

<http://www.kasvuakiertotaloudesta.fi/>



## THE PLAYBOOK HELPS YOU:

1. Understand the advantages and untapped value potential of the circular economy
2. Assess your company's current state and identify the circular business models that can help you
3. Understand which capabilities are needed to operate your selected models
4. Find technologies that can enable your selected models
5. Understand the key steps, common barriers and success factors.
6. Design a transformation roadmap

# CIRCULAR CONSUMER BUSINESS – QUICK TRIALS

## WHO?

Do you have a **small company** but a big solution that promotes circular economy and makes everyday life more sustainable for consumers?

Are you working for a **big company** willing to try new solutions and identify new innovative partners among small companies?

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## WHAT?

Business Finland and Sitra will carry out quick trials where **small companies are able to test and develop their solution's applicability and attractiveness for the international market.** They will be partnered by a large company and will receive assistance and support for service design and possibility to utilize the large company's customers for consumer trials.

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## WHEN?

Call opens in March 2019

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# BIO/CIRCULAR ECONOMY & EUROPEAN COLLABORATION

## Horizon 2020 – what and why?

- Develop new **innovative product-, service- or business concepts** for international markets!
- Make new and challenging research **together with international cooperation partners!**
- Have an **influence on your own operational environment** in Europe!

## Call examples 2020 (€ tbc):

### Food security, agriculture, forestry, water research and bioeconomy (SC2) – 484 M€

- **Sustainable Food Security** – healthy food from land and sea, resource efficiency & environmental performance of food systems, fighting the impact of climate change, GHG emission and air pollutants (155 M€)
- **Blue Growth** – harvesting potential of waters, protecting biodiversity, enhancing climate resilience (51 M€)
- **Rural Renaissance** – new value chains and business models in rural areas (78 M€)
- **Food and natural resources** (bridging towards "Horizon Europe") – new part in WP complementing calls above, incl. also bio-based products (200 M€)

### Climate action, environment, resource efficiency and raw materials (SC5) – 376,5 M€

- **Greening the economy in line with the Sustainable Development Goals (SDGs)** – enhancing circular economy; improving efficiency of resource use (incl. energy and water), combining economic and environmental benefits etc. (187 M€).

### Nano- and biotechnology, advanced materials and processing (NMBP) – 601,1 M€

- Open Innovation Test Beds for nano-enabled biobased materials (111,5 M€), Upcycling Bioplastics of food and drinks packaging (20 M€), Industrial sustainability (219,1 M€)

NCPs: Heini Günther, Business Finland, +358 40 502 0042, heini.gunther@businessfinland.fi  
Jaana Lehtimäki, Suomen Akatemia, +358 2953 35060, jaana.lehtimaki@aka.fi

# INVESTMENT AND DEVELOPMENT GRANTS FOR CIRCULAR ECONOMY SOLUTIONS – CALL OPEN

THE MINISTRY OF ECONOMIC AFFAIRS AND EMPLOYMENT



- The call aims to boost investments in and development on novel circular economy technologies, processes, networked solutions, and service models.
- The solutions should clearly facilitate the breakthrough of the circular economy in Finland.
- Call is mainly targeted to companies.
- Possible funding 50 % of development costs and 25 % of investment costs (total funding max. 200 000 euros)
- Grants are awarded continuously to projects with impact on future growth of circular economy.
- Also funding from Business Finland available for companies and networks.

## MORE INFO

<https://tem.fi/kiertotaloustuki>

Tuula Savola,  
Ulla Palander

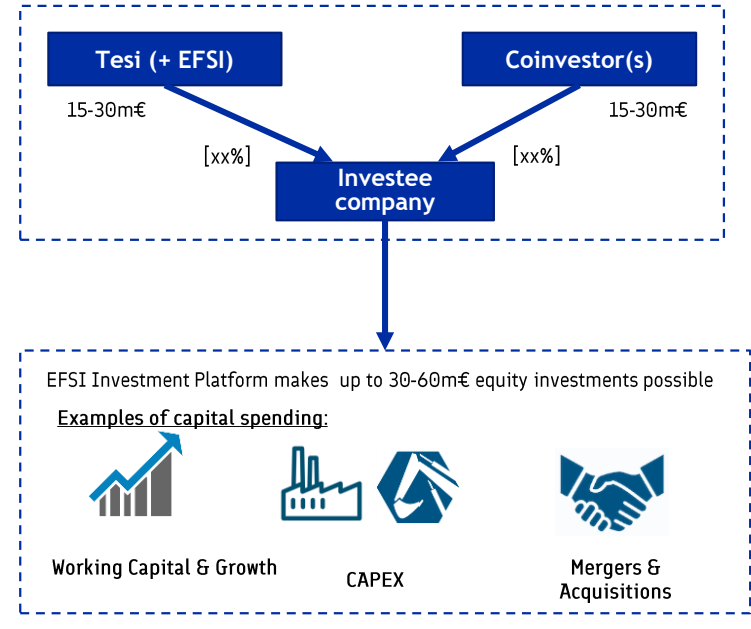
The Ministry of  
Economic Affairs  
and Employment

# TESI INVESTMENT PROGRAM FOCUSING ON CIRCULAR ECONOMY

Program in Brief	
Volume of the Program	50m€
Size of individual investments	<ul style="list-style-type: none"> <li>Tesi's typical investment in an investee company is 2-20m€</li> <li>The EFSI Investment Platform makes investments in the range of 15-30m€ possible</li> </ul>
Use of capital	<ul style="list-style-type: none"> <li>Capital expenditure, pilot facilities and processes, R&amp;D, NWC, personnel expansion, M&amp;A etc.</li> </ul>
Goals	<ul style="list-style-type: none"> <li>Contribution to circular economy</li> <li>Growth and internationalization of Finnish companies</li> <li>Promotion of impact investing</li> </ul>
Criteria	<ul style="list-style-type: none"> <li>Internationally growing company applying circular economy business models</li> <li>Tesi's standard investment criteria</li> </ul>
Instruments	<ul style="list-style-type: none"> <li>Equity and loan instruments</li> <li>Symmetric terms with private coinvestors</li> </ul>
Impact	<ul style="list-style-type: none"> <li>Impact goals are growth, jobs, and exports created</li> <li>Additional goals are case specific impact goals, for example saved energy, reduced CO2 emissions, reduced landfill waste etc.</li> </ul>

## Case Example

Tesi together with private coinvestors can invest up to 30 – 60 m€ in an investee company  
Multiple coinvestors can make even bigger investments possible





A paved road with a dashed center line and a large white arrow pointing forward, surrounded by green foliage.

CASE EXAMPLES:

## **Fortum ForBest – More Environmentally Friendly Textiles from Wood**

Fortum is developing high-value products from agro residues and woody biomass to replace the use of fossil and other environmentally taxing raw materials.

## CARBO – Towards Carbon Neutral Milk Chain

Valio's vision is to develop a carbon neutral milk chain based on the Finnish grasslands. This CARBO project and the ecosystem that is created aims at radical reduction of greenhouse gas emissions in milk production chain by utilizing different technologies as well as development of long-term carbon sinks in grasslands.



# WHO TO CONTACT

# CONTACT US

If you have a bio and circular economy business solution or product idea, don't hesitate to contact us:



**Outi Suomi**  
Program Manager  
Business Finland



**Paula Eskola**  
Coordinator  
Motiva Oy  
paula.eskola(a)motiva.fi



**Heini Günther**  
Horizon 2020  
Funding, NCP



**Pia Qvintus**  
Program Partner  
Export activities of  
innovative bio and  
circular solutions



**Helvi Väisänen**  
Senior Advisor,  
Invest In



**Werner Merzeder**  
Global Opportunity  
Leader, Austria



**Ilmari Absetz**  
Director Ecosystems, Bio  
and Circular Economy



**Risto Huhta-Koivisto**  
Senior Director,  
Ecosystems, Bio- &  
Circular Economy

Email addresses: [firstname.lastname\(a\)businessfinland.fi](mailto:firstname.lastname(a)businessfinland.fi)

# CONTACT US

Bio and Circular Economy Ecosystem Developers



**Tuomas Lehtinen**

Senior Adviser (forestry, bio, plastic, water)  
tuomas.lehtinen(a)businessfinland.fi



**Kari Keskinen**

Chief Adviser (metals, mining, plastic, water)  
kari.keskinen(a)businessfinland.fi

# CONTACT US

If you need help in communications, don't hesitate to contact us :



**Sanna Nuutila**

Business Finland

sanna.nuutila(a)businessfinland.fi



**Suvi Salmela**

Motiva Oy

suvi.salmela(a)motiva.fi



**Outi Varis**

Business Finland

outi.varis(a)businessfinland.fi