



BIO AND CIRCULAR FINLAND – FUNDING FOR CIRCULAR RENEWAL

BIO AND CIRCULAR FINLAND - BUSINESS FINLAND 2022
OUTI SUOMI

BUSINESS FINLAND MISSION IS GROWTH, RENEWAL, AND SUCCESS

Promoting Innovation

Promoting Exports

Attracting investments and travelers

Tools

- Research and innovation funding
- Internalization
- Networking and contacts
- Expertise and vision of our domestic and International networks (over 140 experts in 35 countries)
- Theme choices and programs



FINNISH BIO & CIRCULAR ECONOMY EXISTING BUSINESS ECOSYSTEMS

SUSTAINABLE TEXTILES

Cellulose fibre production
Recycled textile ecosystem
Utilization of recycled textiles fibres in different end-user applications

PACKAGING

Bio-based barriers
Traceability – digital elements
New business models – Package as a service

PLASTICS

Bio plastics
Plastic recycling
Use of recycled plastics

BIOBASED SOLUTIONS

Nanocellulose based biomedical solutions
Bio composites
Biofuels
Biochemicals
Ligning based binders
Proteins

CIRCULAR VALUE ADDED STREAMS

Towards zero-waste processes
Metals recycling
Batteries recycling
Carbon neutral production – minimizing CO2
Nutrient recycling

SYNTHETIC BIOLOGY

NEW BUSINESS MODELS & DIGITAL TRANSFORMATION

BUILDING & CONSTRUCTION

CLIMATE SMART BUSINESS

ExpandFibre Ecosystem R&D&I focus points on the road towards the Vision 2030

Straw and wood fibres as raw materials							Vision for 2030
Textiles	Biocomposites	Packaging	Lignin products*	Hemicellulose products*	Sourcing & fractionation of straw	Other fibre products	
<ul style="list-style-type: none"> New, sustainable textile fibres for wearable textiles and nonwovens Staple fibre analytics and performance testing New staple fibre applications and post-treatment technologies Recycling and traceability Business models to speed up global market entries 	<ul style="list-style-type: none"> Raw material processing and converting Material properties Recycling and end-of-life Biocomposites containing fibres and lignin All-cellulose composites & natural fibre polymer composites Additive chemistry 	<ul style="list-style-type: none"> New pulp-based plastic-replacing packaging solutions Tools and processes for designing sustainable packaging Barriers and binders based on natural polymers 	<ul style="list-style-type: none"> Lignin fractionation for material applications Lignin as functional ingredient for thermosetting resins as well as for thermoplastics and bio-composites Lignin dispersants Novel methods for lignin functionalization <p style="text-align: right;">*) Especially for straw</p>	<ul style="list-style-type: none"> Hemicellulosic sugar refining and separation Xylose, pentoses and furfural as industrial ingredients and platform chemicals Polymeric hemicellulose as industrial ingredients and platform chemicals <p style="text-align: right;">*) Especially for straw</p>	<ul style="list-style-type: none"> Sustainable agricultural residue supply chains Concepts for low-emission straw supply networks Novel biomass supply contract concepts New fractionation technologies for processing of agro-residual raw materials Side-stream utilization in animal feed and fertilizer applications 	<ul style="list-style-type: none"> New materials based on pulp fibres for high-volume applications Novel chemistry for pulp fibre modification Functional structures including hybrid materials Advanced 3D and 4D fibre processing methods Fibre and specialty cellulose products from straw pulp, including MFC, MCC and chemically modified cellulose 	<ul style="list-style-type: none"> Investments in commercial production of new bioproducts (textile fibres, biocomposites, other bioproducts, etc.) New bioproducts available to the markets with significantly lower carbon footprint Sales and/or out-licensing of new technologies related to new bioproducts Professionals trained for new bioproduct businesses Sustainability awareness increased throughout the value chains
Cross-cutting topics							
<ul style="list-style-type: none"> Replacing plastics and fossil-based materials Digitalisation & measuring 		<ul style="list-style-type: none"> Emerging technologies Sustainability assessment 		<ul style="list-style-type: none"> Design for circularity Piloting and test-beds for new applications Following regulatory environment 			

MARKET POTENTIAL DEFINING THE DIRECTION OF THE RENEWAL

**BUSINESS
FINLAND**

ADVICE

Experts in Finland and around the world support Business Finland's customers at all stages of their growth and international expansion

- Selection of an external consultant
- Plan for growth and international expansion
- Market selection and validation
- Localization of the product selection
- Strategy and plan for market entry
- Market insight: contract and negotiation practices, market- and industry-specific tacit knowledge
- Problem solving: statutory matters, network of distributors

<https://www.marketopportunities.fi/home?page=1>





FUNDING ENABLES THE RENEWAL

**BUSINESS
FINLAND**

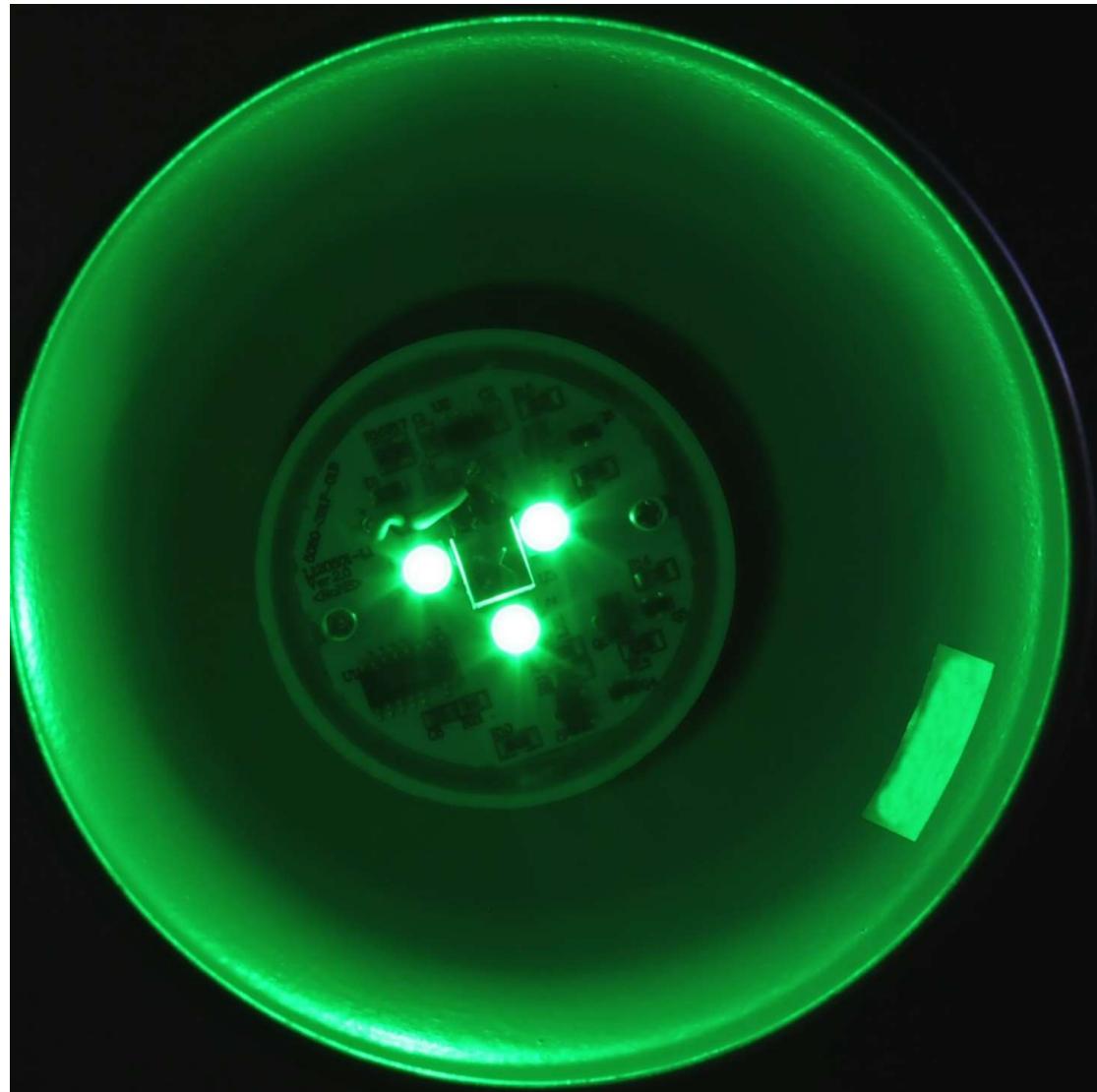
INNOVATION VOUCHER (1/2)

Purchase innovation expertise for your company

WHO CAN APPLY?

SMEs and microenterprises that:

- Have a new product or service idea with international growth potential
- Are starting innovation operations
- Have at least one person who has worked full-time for a minimum of three months before applying for an innovation voucher



WWW.BUSINESSFINLAND.FI/INNOVAATIOSETELI

INNOVATION VOUCHER (2/2)

FOR WHAT PURPOSE?

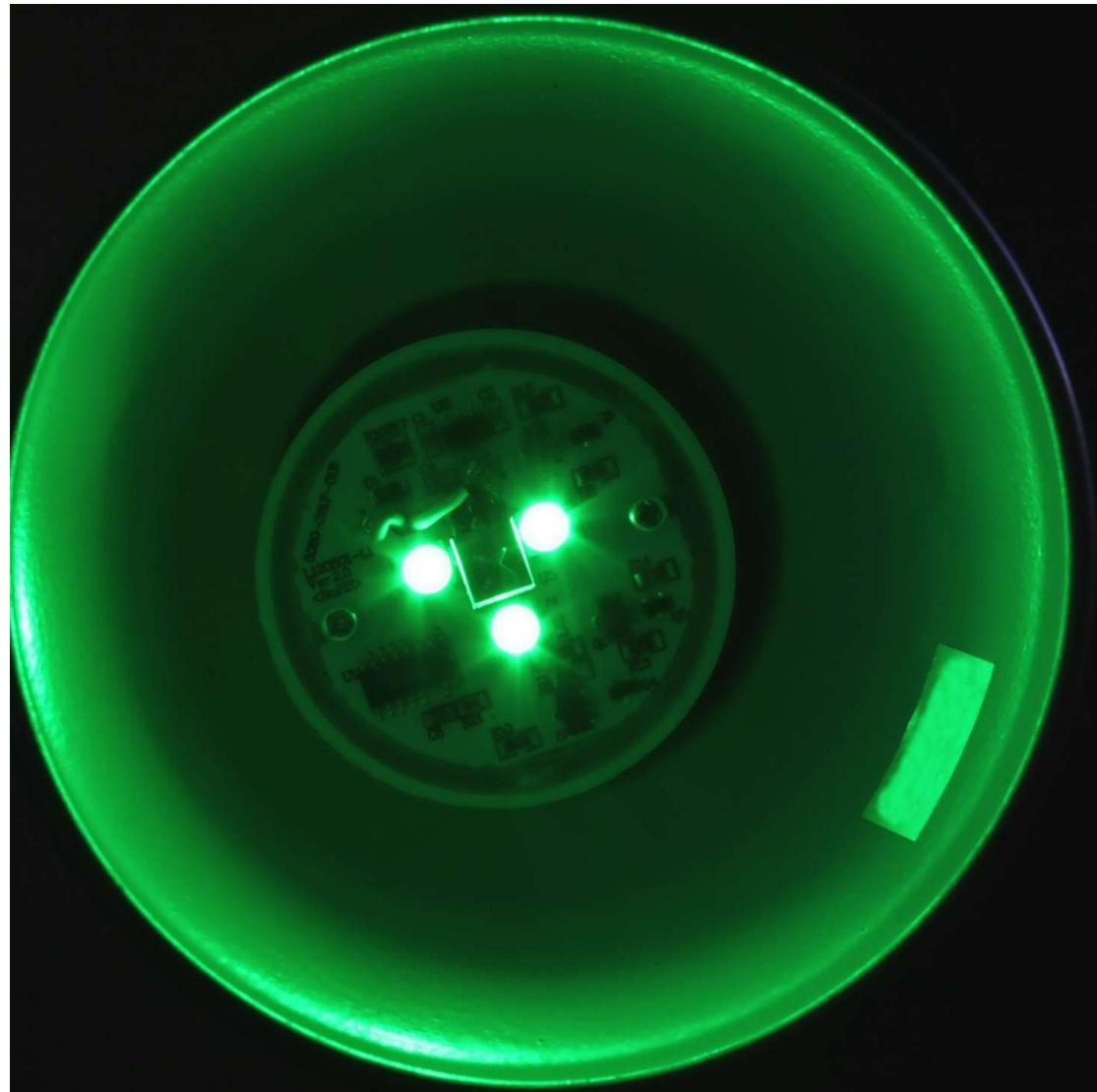
- Test, study and prepare a new product or service idea with international growth potential
- Competitiveness through copyright, trademarks, patents and business secrets
- Strategic thinking for brand building, design and marketing

FUNDING FROM BUSINESS FINLAND

EUR 4,000 +
VAT

EUR 1,000 +
VAT self-
financing
contribution

De minimis aid



TEMPO

Funding for start-ups, SMEs and mid-cap companies for international growth.

- Test your concept
- Get feedback from customers
- Ensure demand
- Know the market
- Develop your company's management, ways of working and organization

75% of the
project costs

Maximum
funding from
BF:
EUR 50,000

De minimis aid

► WWW.BUSINESSFINLAND.FI/TEMPO



CO-CREATION (1/2)

Funding for the development of joint research ideas of research organizations and companies

- The research organization determines the research problem and the path to its resolution, processes the project plan to attract companies and builds a new business and partnership network.
- The goal is to implement a joint co-innovation action in close cooperation between the research organization and its new business partners.

► WWW.BUSINESSFINLAND.FI/EN/COCREATION



CO-CREATION (2/2)

FUNDING FROM BUSINESS FINLAND

60% of the project costs

Project duration 4–6 months

Project size up to EUR 100,000

- Continuous application
- The project cannot only consist of research-related costs. It must also include work to assess the feasibility of the idea, such as equipment costs or customer or market studies carried out for companies.
- Eligible costs:
 - Salaries
 - Indirect personnel costs 50%
 - Indirect costs (overheads) 20%
 - Travel expenses
 - Costs of materials and supplies
 - Purchased services necessary for the implementation of the project



Funding call for industrial projects related to low-carbon circular economy, digitalization, and service exports

For whom?

- To companies registered in Finland that pursue growth and internationalization and have sufficient financial resources, versatile expertise and a team for it. Research organizations may apply for this funding as part of a [Co-innovation](#) project.
- Example projects:
 - the development of industrial low-carbon services and service business models, such as products as a service (PaaS)
 - the utilization of industrial digital renewal and data economy in areas such as low-carbon value chains
 - the development of an industrial hydrogen ecosystem that uses renewable energy, in which hydrogen is recycled both as energy and as building material for end products (e.g., chemicals, new proteins)
 - the capture, storage, and re-use of carbon dioxide produced in industrial processes.

Theme

Industrial projects related to low-carbon circular economy, digitalization, and service exports

Schedule

Funding call opens 21.1.2022 - 30.6.2022

Contact persons

Maarit Kokko, Sakari Karppinen

What?

- According to the preliminary plan, a total of EUR 4 million of funding will be granted in 2022 and 2023. Business Finland will make funding decisions following normal selection criteria.

Applications must be submitted by 30 June, 2022 for funding granted in 2022. For funding granted in 2023, the call will open in late 2022.

Kasvuyritysten innovaatiotuki

- Hiilineutraaliin yhteiskuntaan siirtyminen edellyttää valtavaa muutosta.
- **Vanhat keinot eivät riitä.** Innovatiivisten, kestävä kehitystä edistävien ratkaisujen syntymiseen tarvitaan vahva ja ajantasainen tietoperusta, uuden tiedon luomista ja haastavia kehitysprojekteja.
- Projektit voivat liittyä esimerkiksi energiatehokkuuteen, ilmasto- ja ympäristöratkaisuihin, ilmastonmuutokseen sopeutumiseen, uusiin energiaratkaisuihin tai kiertotalouteen.
- **Tartu uusiin liiketoimintamahdollisuuksiin ja lähde etsimään innovatiivisia ratkaisuja yrityksesi menestykseksi.**



Kasvuyritysten innovaatiotuki

RRF TEEMA:

Kasvuyritysten innovaatiotuki vihreään siirtymään

AIKATAULU:

23.8.2021 - 31.10.2022. Hankkeiden tulee päätyä 2025.

2022 myönnettävän rahoituksen osalta hakemus kannattaa jättää viimeistään 31.10.2022.

TAUSTAMATERIAALIT: <https://www.businessfinland.fi/kampanjasivut/suomen-kestavan-kasvun-ohjelma>

Kenelle?

- Startup, pk- ja midcap-yrityksille**, joilla on kykyä ja halua kasvaa kansainvälisillä markkinoilla.
- Tulevaisuuden ratkaisujen kehittäjille.
- Kaikkien alojen yrityksille**, jotka kehittävät kestävää kehitystä edistäviä ratkaisuja.
 - Projektit voivat liittyä esimerkiksi energiatehokkuuteen, ilmasto- ja ympäristöratkaisuihin, ilmastonmuutokseen sopeutumiseen, uusiin energiaratkaisuihin tai kiertotalouteen.
- Avustusta kohdistetaan **yritysten itsenäisiin tutkimusprojekteihin**. Halutessaan yritys voi liittää projektinsa mukaan veturiyritysten tiekarttojen [mukaiisiin kehitysalueisiin. Lue tarkemmin kumppanuushausta.](#)

Mitä?

- Business Finland rahoittaa yritysten innovatiivisia tutkimus- ja kehitysprojekteja
- Uutta luovaa tutkimuksellista työtä rahoitetaan avustuksella.**
- PK-yrityksille enintään 50 prosenttia ja Midcap-yrityksille enintään 40 prosenttia projektiin kokonaiskustannuksista.
- Rahoitusta saavat yritykset valitaan avoimin ja läpinäkyvin kriteerein jatkuvalla haulla.
- Fossiilisten polttoaineiden käytööä edistäviä hankkeita ei rahoiteta.** EU:n päästökauppajärjestelmän (ETS) piirissä olevien hankkeiden osalta arvioitujen kasvihuonekaasujen päästöjen on alitettava vertailuarvo, joka on määritetty ilmaisjaon ehdoksi komission sovellutussäännöissä (EU) 2021/447.

- Funding call for industrial projects related to low-carbon circular economy, digitalization, and service exports (RRF) - Maarit Kokko and Sakari Karppinen
- Kasvuyritysten innovaatiotuki (RRF), vihreä siirtymä - Jani Lehikoinen, Liina-Lotta Latvala

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FINLAND

THANK YOU!

OUTI SUOMI - HEAD OF BIO AND CIRCULAR PROGRAM

[https://www.businessfinland.fi/suomalaisille-
asiakkaille/palvelut/ohjelmat/bio-and-circular-finland](https://www.businessfinland.fi/suomalaisille-asiakkaille/palvelut/ohjelmat/bio-and-circular-finland)

