



# BF Green Transition Actions and Funding

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BUSINESS FINLAND

# FINLAND DEFINING THE FUTURE

Our strategy for 2025



## CUSTOMER

## SOCIETY

### --- PURPOSE ---

We generate prosperity for Finland by accelerating our customers' sustainable growth globally.



**Economic Growth** ▶

Globally thriving companies

Productive economy



**Sustainability** ▶

Developers of new sustainable solutions and operations

Superpower in sustainable development



**Competitiveness** ▶

Bold reformers of business

Attractive and resilient business landscape

### --- VISION ---

We excel at developing and refining the best of Finnish potential and matching it with global opportunities. We create world-class success stories.

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### Strategic priorities ▶



Value-adding and proactive partner for our customers



Strong and proactive actor in society



Change agent for sustainable business



Best workplace for leading-edge expertise



Operationally excellent and agile organization

### Values



With passion



All together



Think big



With sisu

# BUSINESS FINLAND'S THEMATIC FOCUS AREAS



Digitalization based boost for productivity



Comprehensive health & wellbeing



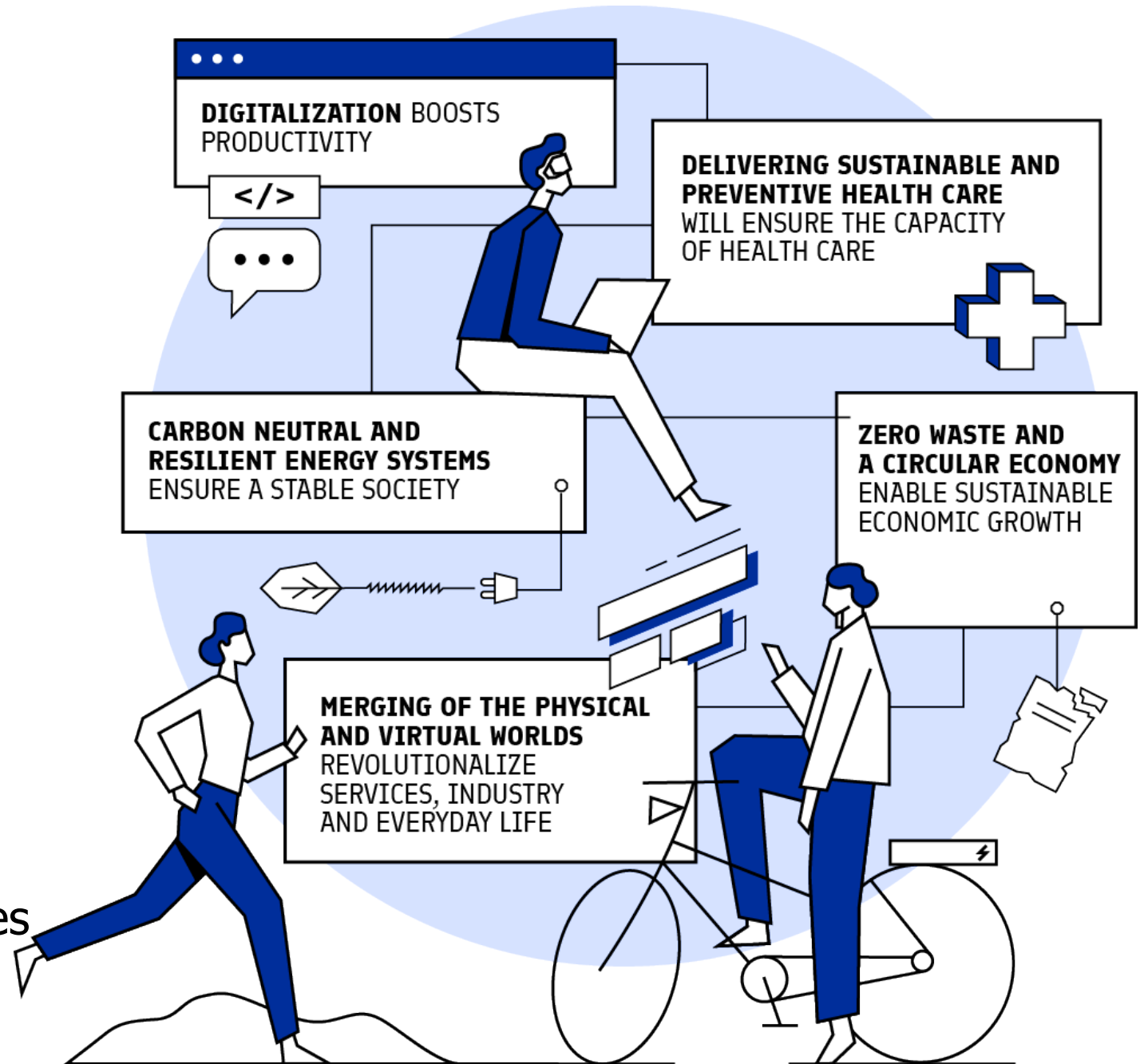
Carbon neutral & resilient energy system



Zero waste & circular economy

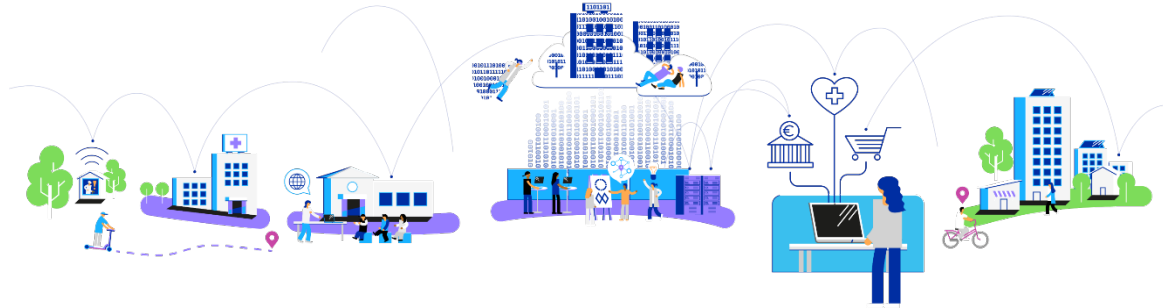


Engaging immersive experiences



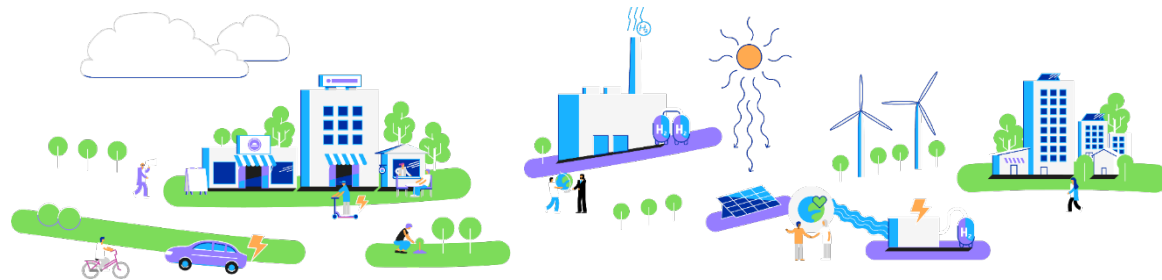


# MISSIONS



## DIGITALIZATION

- Digital Finland



## CARBON NEUTRALITY

- Zero Carbon Future

## MISSION

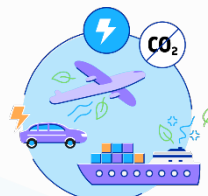
# Zero Carbon future

**Zero Carbon Future – Our future wellbeing is made with global carbon handprint.**  
We do this by speeding and scaling up new innovations and creating long-term business opportunities globally. We do this by enhancing global networks and partnership.

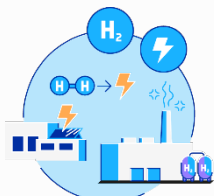
## GLOBAL CHALLENGE

Global warming of 1.5°C and 2°C will be exceeded during the 21st century unless deep reductions in carbon dioxide (CO<sub>2</sub>) and other greenhouse gas emissions occur in the coming decades. Companies and innovations play a crucial role in solving wicked problems.

### THEMATIC FOCUS AREAS



**Carbon neutral mobility & transport**



**Energy Transition**

### FINLAND'S STRONGHOLDS

Finland has strong knowhow in **smart, secure, and flexible energy systems**. These technologies are key building blocks or facilitators to respond to carbon neutrality challenges in energy transition and transportation & mobility. Finland's unique added value is **cross sectoral systemic approach**. At the forefront of this global transformation are companies and their climate positive solutions that drive forth change.

## APPROACH

### DRIVING INNOVATION:

- ☆ Finland's know-how, technologies and solutions set global benchmarks.
- ☆ Finland's long-term competitive edge and future business potential by active innovation portfolio leadership.

### INVESTMENTS:

- ☆ Finland's growing global carbon hand-print speeds up the transition to carbon neutrality.
- ☆ Attractive service path "Innovation to investment".

### POLICY PLAY:

- ☆ Finland is the most wanted partner in zero carbon development amongst the companies & countries.
- ☆ Active contributor in relevant Zero Carbon policy-making platforms.

### BEHAVIORAL CHANGE:

- ☆ Finnish end-users and companies are the early adapters of new fossil-free goods, services, and technologies.
- ☆ Competitive edge and positive buzz by bold testbed concepts.

## GOALS 2035

### CUSTOMER

### SOCIETY



**Economic growth**

Globally growing and scalable companies

Vital and diverse business landscape



**Sustainability**

Competent companies to sustainably respond to global wicked problems

Sustainable zero carbon society



**Competitiveness**

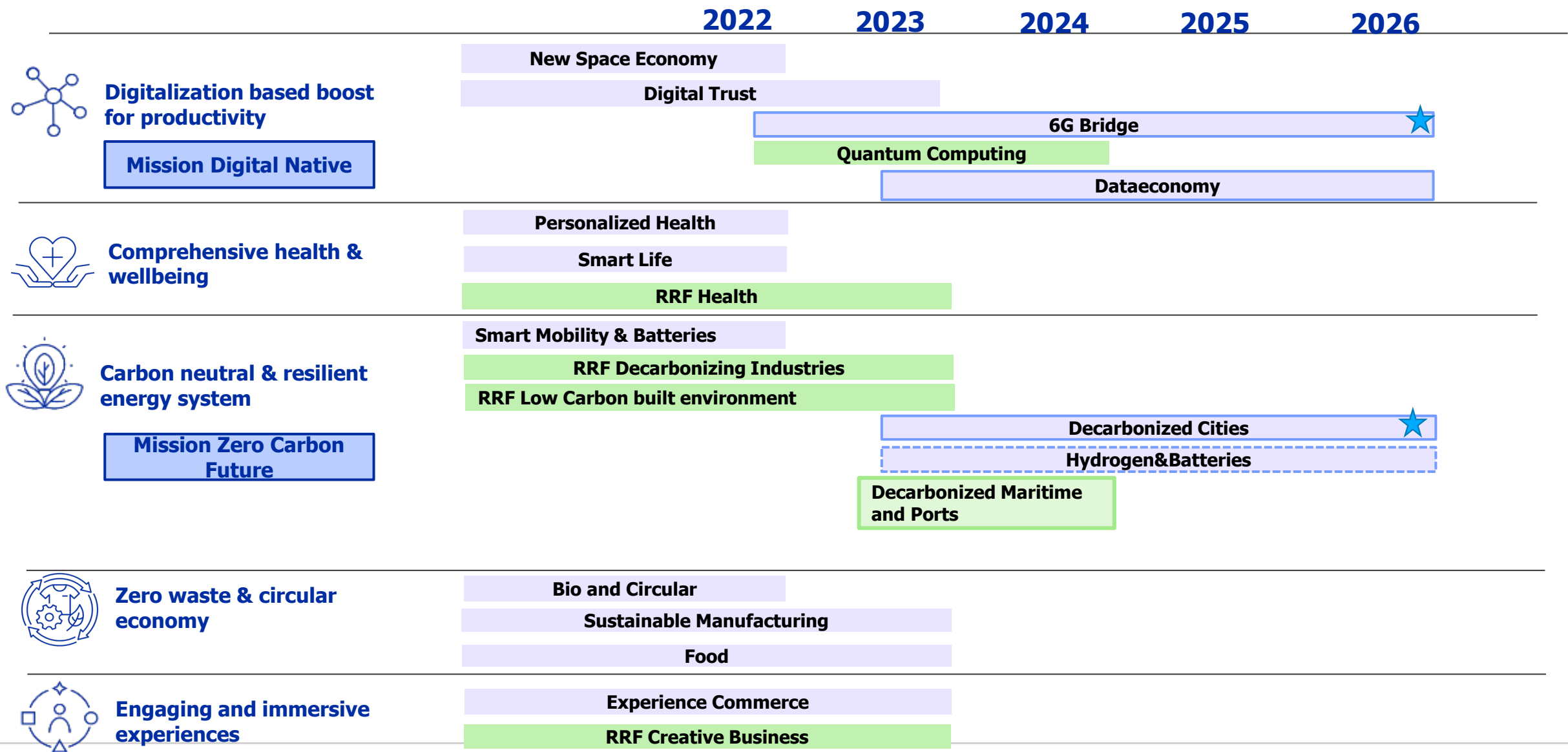
Forerunner for globally scalable solutions

Agile and attractive platform for pivoting global challenges

### Finland's targets:

- 2029** Coal out phased
- 2035** Carbon neutral
- 2050** Carbon negative

# BF Programs and Campaigns ongoing and under planning 2023



# LEADING COMPANY PROJECTS 2020-2022



Euroopan unionin rahoittama –  
NextGenerationEU

## NESTE

Sustainable and globally scalable solutions for the research and development of raw materials that reduce the use of crude oil

## FORTUM & METSÄ GROUP

New fiber-based products for consumer markets to reduce the carbon footprint

## KONE

Mobility solutions for urban environments in line with the principles of sustainable development

## NOKIA

Making Finland a pioneer in 5G networks and

## BOREALIS POLYMERS

Sustainable plastics industry transformation

## ABB

Platforms for the optimal generation and consumption of electricity in a carbon-neutral society

## SANDVIK

Globally competitive electric and digital solutions for heavy machinery

## NOKIA

energy efficient edge-computing

## MEYER TURKU

Climate-neutral cruise ship and shipyard

## CHALLENGER CLASS LEADING COMPANIES

## MIRKA

Cooperation with the Finnish industry in net carbon negative solutions

## PICOSUN

Greener semiconductor manufacturing

## TIETOEVRY

Trust Based Digital Services

## WÄRTSILÄ

Zero Emission Marine

## VALMET

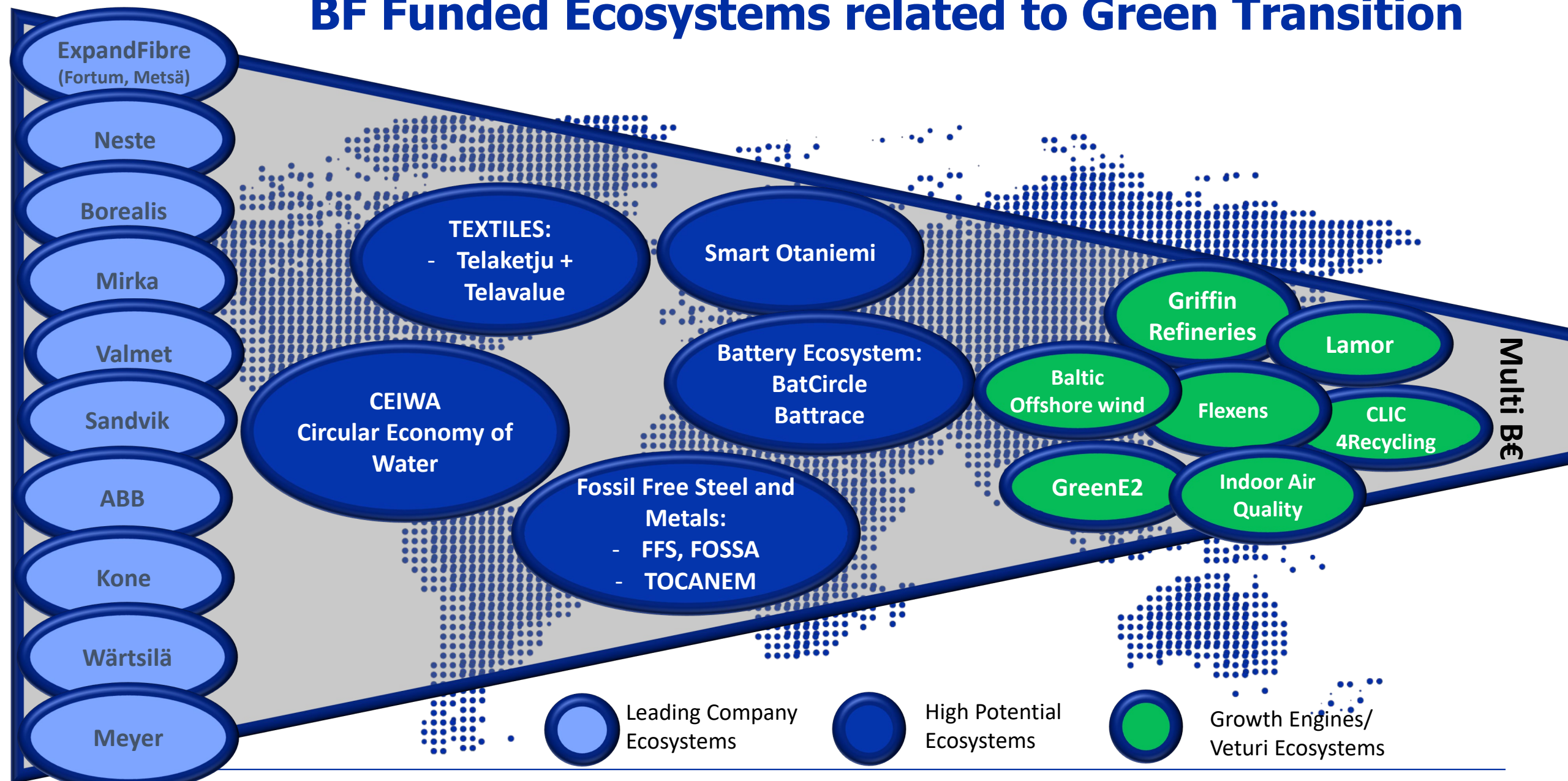
Beyond circularity boosts green transition

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In exchange for funding provided by Business Finland, the leading companies are committed to increasing their research, development and innovation (RDI) operations in Finland by 1,2 billion euros combined, and to create hundreds of new RDI jobs by 2024.



# BF Funded Ecosystems related to Green Transition





# RDI Funding Calls

## Funding Calls

### Thematic Calls

1. Call for ideas Dataeconomy, Hydrogen&Batteries and Immersive Experiences– dl 19.5.
  - Co-Research based call
2. Second call for new opening probably will be opened in the Autumn

### Other Funding Call and Competitions

- Challenge competition for leading companies and challengers –spring 2023
- Partnership model funding call – deadlines 13.4. and 13.9
- Several RRF –funding calls
- Research to business calls x2 – 1. deadline 8.3.2023

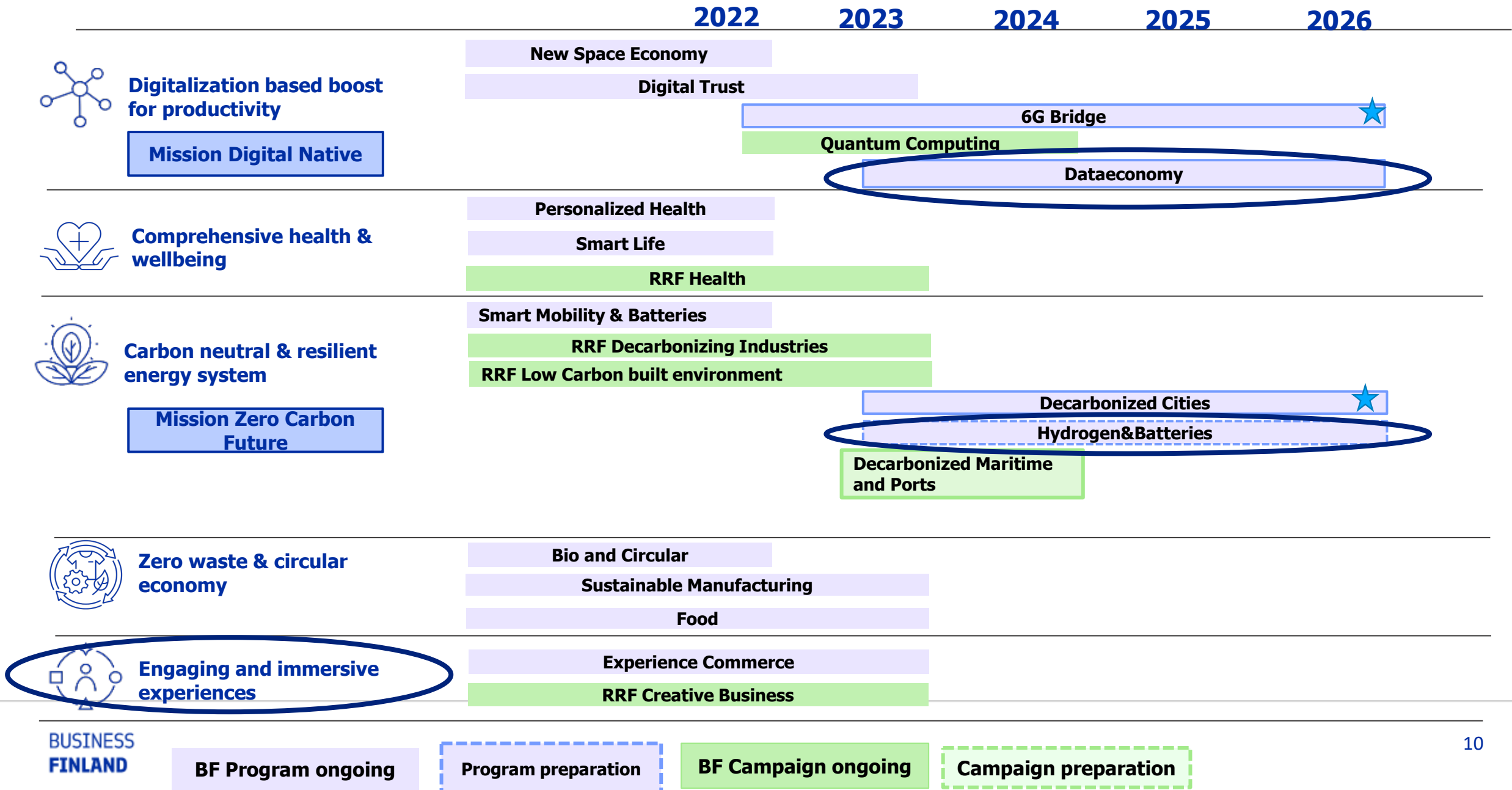
### International joint calls

- EU partnerships
  - CETP (Clean Energy Transition Partnership) – Deadline 20.3
  - DUT (Driving Urban Transition Partnership) – Deadline 3.5
  - KDT (Key Digital Technology JU/Partnership)

### Other international joint calls

- Mission Innovation
- MoST (China)

# BF Programs and Campaigns ongoing and under planning 2023



# RRF

Hakujen  
aikataulu  
2023

15.2-28.4.2023

**6G, AI ja Kokeiluympäristöt, innovaatio infra haku**

1.3-30.6.2023

**Luovien alojen haku (de minimis)**

1.3-30.9.2023

**Luovien alojen haku (Co-inno)**

17.1-31.3.2023

**Akkuteollisuus (RRF + kansallinen)**

2.12.2022-14.4.2023

**Vähähiilinen rakennettu ympäristö haku**

2021-31.12.2023

**Ohjelmallinen toiminta, Luovat alat**

2021-31.12.2023

**Ohjelmallinen toiminta, Terveys- ja hyvinvointi**

2021-31.12.2023

**Ohjelmallinen toiminta, Teollinen vähähiilinen vienti**

2021-31.12.2023

**Ohjelmallinen toiminta, Vähähiilinen rakentaminen**

TAMMI

HELMI

MAALIS

HUHTI

TOUKO

KESÄ

HEINÄ

ELO

SYYS

LOKA

MARRAS

JOULU

2022

2023



# Business Finland's funding for research organizations from January 1, 2023

## **Co-Research \***

### **To create new business opportunities**

- Creating new knowledge to be utilized as basis for new business
- Research results have high economic and business potential
- Setting research goals together with companies covering a share of project costs

## **Co-Creation**

### **To initiate research and joint projects with companies**

- Preparing Co-Innovation proposal or international joint project
- Specifying research question together with companies
- Creating consortium
- Novel idea

## **Co-Innovation**

### **For joint projects of companies and research organizations**

- Research projects and R&D projects of companies are carried out simultaneously in close cooperation
- To develop new knowledge and innovative solutions, which aim at a significant commercial exploitation and export business

## **Research to Business**

### **To initiate business**

- Major share of the project is for commercialization preparation
- Basic research has already been completed in prior projects

International and other special calls

# BUSINESS FINLAND FUNDING FOR DIFFERENT STAGES OF DEVELOPMENT

## Examples of funding

<b>INNOVATION VOUCHER</b>  Buy innovation expertise	<b>EXPLORER PRODUCTS</b>  Funding to support companies' internatio- nalization	<b>TEMPO</b>  For companies aiming for international growth	<b>INTO</b>  Innovation expertise in support of international growth	<b>RESEARCH ORGANIZATIONS</b>  Commercializatio n of research findings and joint projects with companies	<b>NIY</b> (Under 5 y.o. fast growing start-ups)  Scale globally.  Develop the strategy, team, business model in a comprehensive manner.	<b>R&amp;D</b>  Develop a service, product, process, or a business model.  Prove that your product works.
Grant 80%	Grant 50 %	Grant 75 %	Grant 50 %	Grant	Grant and loan gradually	Loan 50% / 70% Grant max. 50%

# BF –Funding Supporting Green Transition

- BF Funding for Green Transition (Natural Resources and resource efficiency) in 2022 was 366 Meur
  - 70% of funding for companies
  - 30% of funding for research organizations

Funding 2017 – 2022	Company		Research		Together	
BF Program	Funding	No	Funding	No	Funding	No
BioCircular Finland	192 200 000	243	70 000 000	183	<b>462 200 000</b>	<b>426</b>
Smart Energy Finland	101 500 000	164	44 800 000	110	<b>146 300 000</b>	<b>274</b>
Smart Mobility and Batteries from Finland	164 300 000	158	31 200 000	60	<b>195 500 000</b>	<b>218</b>
Sustainable Manufacturing Finland	102 200 000	113	24 900 000	55	<b>127 100 000</b>	<b>168</b>
<b>All together</b>	<b>560 200 000</b>	<b>678</b>	<b>170 900 000</b>	<b>408</b>	<b>931 100 000</b>	<b>1086</b>