



# Why European co-operation?

Sustainable manufacturing program  
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# COVID-19 is challenging certainties everywhere

- European and international collaboration needed to defeat covid-19.
- What are the impacts and consequences of covid-19 on our lives and our societies?
- There will be competition even in the new normal. It takes innovation, collaboration and continuous learning to be successful. Digitalization forms the foundation for high value-added jobs.
- History shows that those who plan and act decisively at speed during such crises emerge as winners in their industry.

# High-Level Roundtable “Industry 2030”: Vision 2030



In 2030, European industry will be a global leader, responsibly delivering value for society, the environment and the economy. Europe will build its competitive advantage on cutting-edge and breakthrough technologies, respect for our environment and biodiversity, investment in our people, and smart European and global alliances. Based on collaboration and our common European values, this new industrial model will help to make Europe a role model for the rest of the world.



# Industry 2030 recommendations

## TURNING VISION INTO REALITY

To turn this vision into reality, Europe will need to manage a fast and inclusive transformation, champion global competitiveness and address social inclusiveness and values. This will require action and the collaboration of policy makers at all levels, industry stakeholders and the broader civil society. The following game-changing ideas offer concrete proposals to make this happen.



**INNOVATION AND  
TECHNOLOGY  
TAKE-UP**



**TRANSITION TO  
CLIMATE-NEUTRAL  
INDUSTRY**



**STRENGTHENING  
OUR GLOBAL  
COMPETITIVENESS**



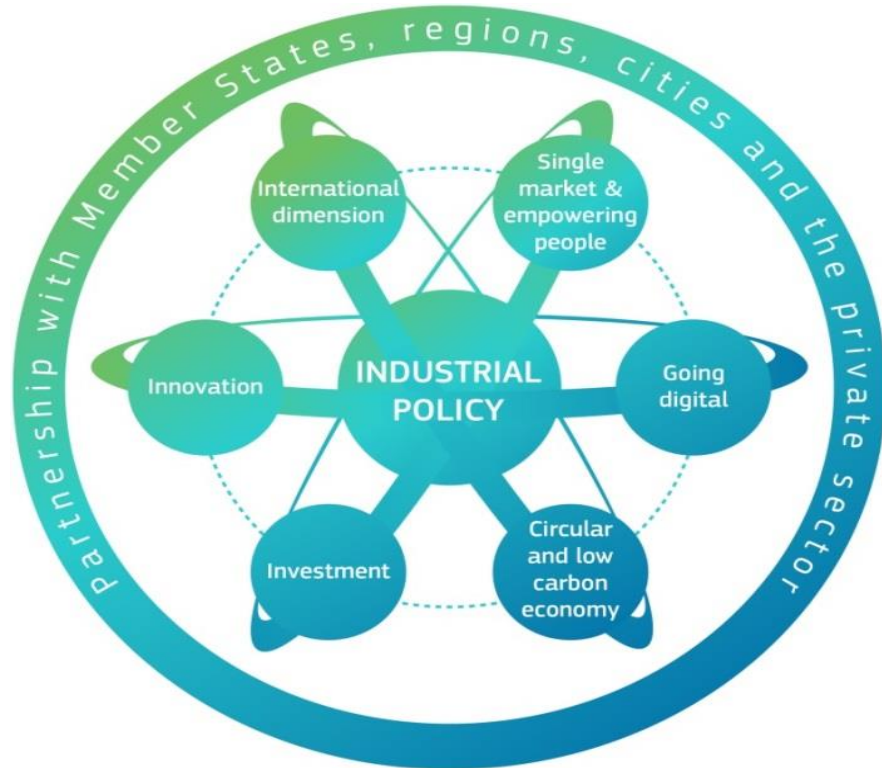
**FOCUS ON PEOPLE,  
SKILLS AND  
VALUES**



# EU Industrial Policy – Integrated approach

Investing in a smart, innovative and sustainable Industry

Promoting Industrial ecosystems and alliances and more strategic collaboration



# There are several good reasons for businesses to participate in EU co-operation



- Opportunity to **anticipate emerging technologies, undertake R&D** and **try radical and disruptive innovations with best researchers and talents.**
- A way to **identify new business opportunities** and to **strengthen and diversify** your innovation and business **networks**
  - EU-project can be a way to true partnership with your important customers, suppliers and other partners.
- **Your competitors are already there** doing R&I and investments with EU funding and support. EU instruments **support** the different phases of innovation process – from **R&D to demos and pre-industrial validation of pilot lines and testbeds, and even first industrial deployment.**
- The EU initiatives and regulation affect the **internal market**. Through active EU-collaboration you will more likely **have a say in how it evolves.**
  - About 70 % of the export of Finnish technology industries goes to Europe.



- **EU's broad-based innovation investments** go beyond Horizon Europe –program.
- A range of funding schemes at EU level can be mobilised. If this can be done in a coordinated way, we can have **more leverage and impact**.
- **Same focal areas** can be found in several programs/schemes  
- AI, data, cybersecurity, IIoT, autonomous mobility, smart health, low carbon industry etc.

Policy	Competitiveness	Investments	Cohesion	Digital Single Market	Research and Innovation	Space	Defence
<b>MFF Program</b>	New EU Industry Policy Strategic Value Chains (SVC) Alliances	EIB InvestEU EU's Emissions Trading System	Structural Funds	Digital Europe Programme	Horizon Europe Programme	European Space Programme	European Defense Fund
<b>Priorities</b>	Connected, clean and autonomous vehicles Smart health Low-carbon industry Hydrogen technologies and systems Industrial Internet of Things Cybersecurity	Coherent investment across EU policies (IPCEI)	Regional Policy priorities:  Low-carbon economy  Support to SMEs  Smart Specialisation  Sustainable urban development  Regional co-operation and interregional innovation projects	Digital capacity building, advanced digital skills, infrastructure deployment and interoperability:  High Performance Computing  Artificial Intelligence  Cybersecurity and Trust	Health  Culture and inclusive society  Civil security for society  Digital, Industry and Space  Climate and energy  Mobility  Bio-economy, food, natural resources and environment	Space Data  High Performance Computing  IoT  Autonomous Driving  Monitoring Greenhouse Gas Emissions  Security	Collaborative projects in defence research and in industrial development research    Emerging and disruptive technologies
<b>Actions</b>	Industry strategies and investments aligned with SVCs  National budget provisions needed in case exemption from State Aid Rules (IPCEI)    Source: Sarvaranta, VTT	Continuation of budgetary model of EFSI (European Fund for Strategic Investments)	Synergies with other programmes, Strategic Value Chains (SVCs), Component 5	National Competence Centres and DIHs to be set up	Partnerships and Missions to be established in Pillar 2 Clusters  Pathfinder and Ecosystems in Pillar 3	EU's Technological Leadership in Space  EU's Autonomous Access to Space	EU's autonomy and technological leadership in defence   Inter-operability





# Innovation Fund: Basics

*Improving the impact of investments in research and technology development investments*

- **Build and operate large-scale industrial assets with breakthrough technologies.**
- Single entity, i.e. international consortia not required.
- Technical, business, and financial viability.
- Lump-sum payments upon milestones and performance (verified GHG emissions avoidance).
- Contents and conditions of calls can be adjusted annually.

# Key features of the Innovation Fund

Volume of at least EUR 10 billion at current carbon prices

Support of up to 60% of additional costs related to innovative technology

Renewable energy CCS and CCU Industry Energy storage

Financed from the revenues of the EU Emissions Trading System

Support of additional capital and operating costs (up to 10 years)

First call in mid-2020  
Projects with CAPEX > 7,5 million

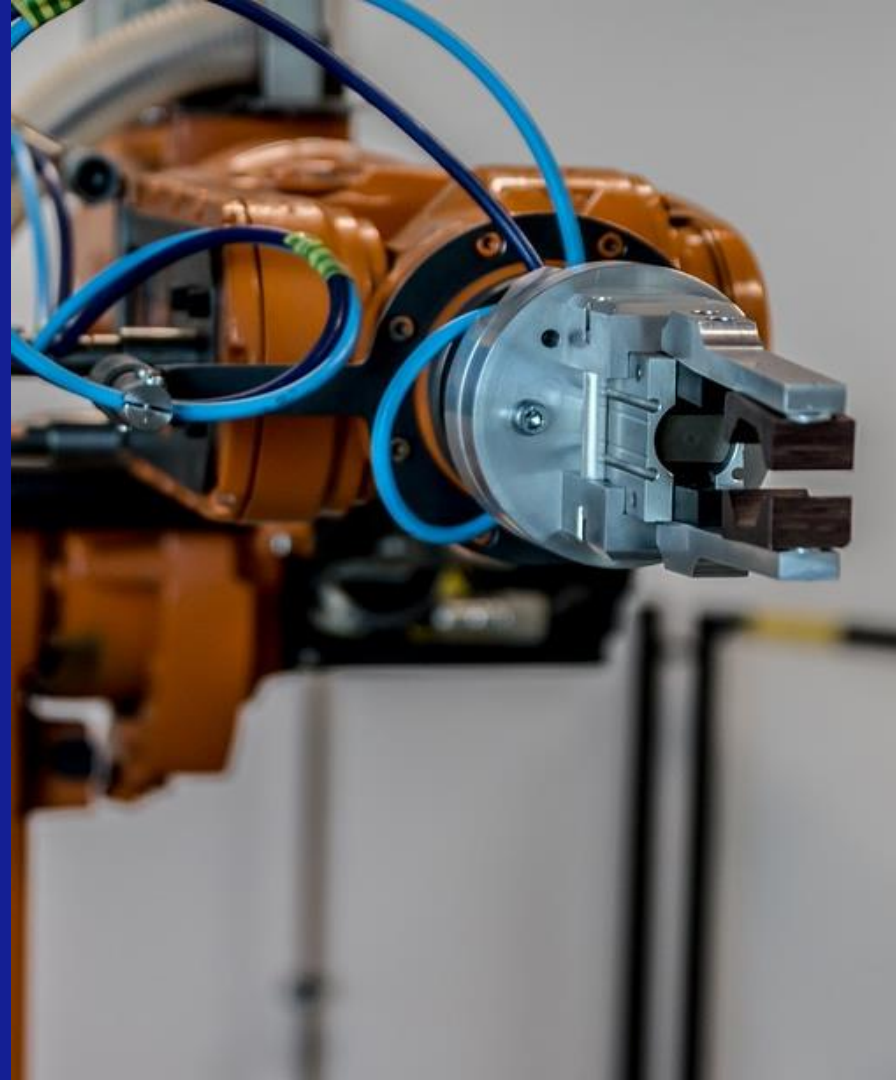
**Driving low-carbon technologies to the market**



- **We have in Finland expertise and good examples of industrial and public private collaboration e.g. in view of the Green Deal objectives and digital transition.**
- **To achieve the ambitious objectives of the ecosystems and boost further the competitiveness of manufacturing industry, European/international co-operation is needed.**
- **National policy initiatives and programs boost active European/international co-operation.**

# Advanced Manufacturing and IIoT made in Finland

- Increasing R&D and fixed investments in Mechanical Engineering industry since 2013; 40 % increase in R&D investments
- A new national R&D program on [Sustainable and Smart Manufacturing](#)
- [Reboot IoT Factory](#):
  - Ecosystems of SME's and research institutions centered around forerunner factories (ABB, Nokia, GE Healthcare, Ponsse, Kongsberg).
  - Industry challenges solved: Data driven supply chain and production management, robotics fusion, labor at digital work
- [IndEx](#) – Industrial Data Excellence
- [One Sea](#) – Autonomous Maritime Ecosystem



# Smart Health made in Finland

- [Healthtech Finland](#) – Sustainable growth for more than 20 years
- National health sector strategy
- “Toisiolaki” - Law on secure and safe use of health and social data (03/2019) e.g. for R&D purposes
- [Clever Health Network](#) – Ecosystem for digital innovation
- [FinnGen](#) - one of the very first personalized medicine projects at this scale
- [Health Capital Helsinki](#) - Innovating and accelerating health and life science business



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**Thank you!**