

**BUSINESS  
FINLAND**

# **A Campaign on** Microelectronics, Photonics, and Quantum (HW Tech) *- a preview*

*RF Sampo Seminar / RF Summit*

*March 12, 2024*

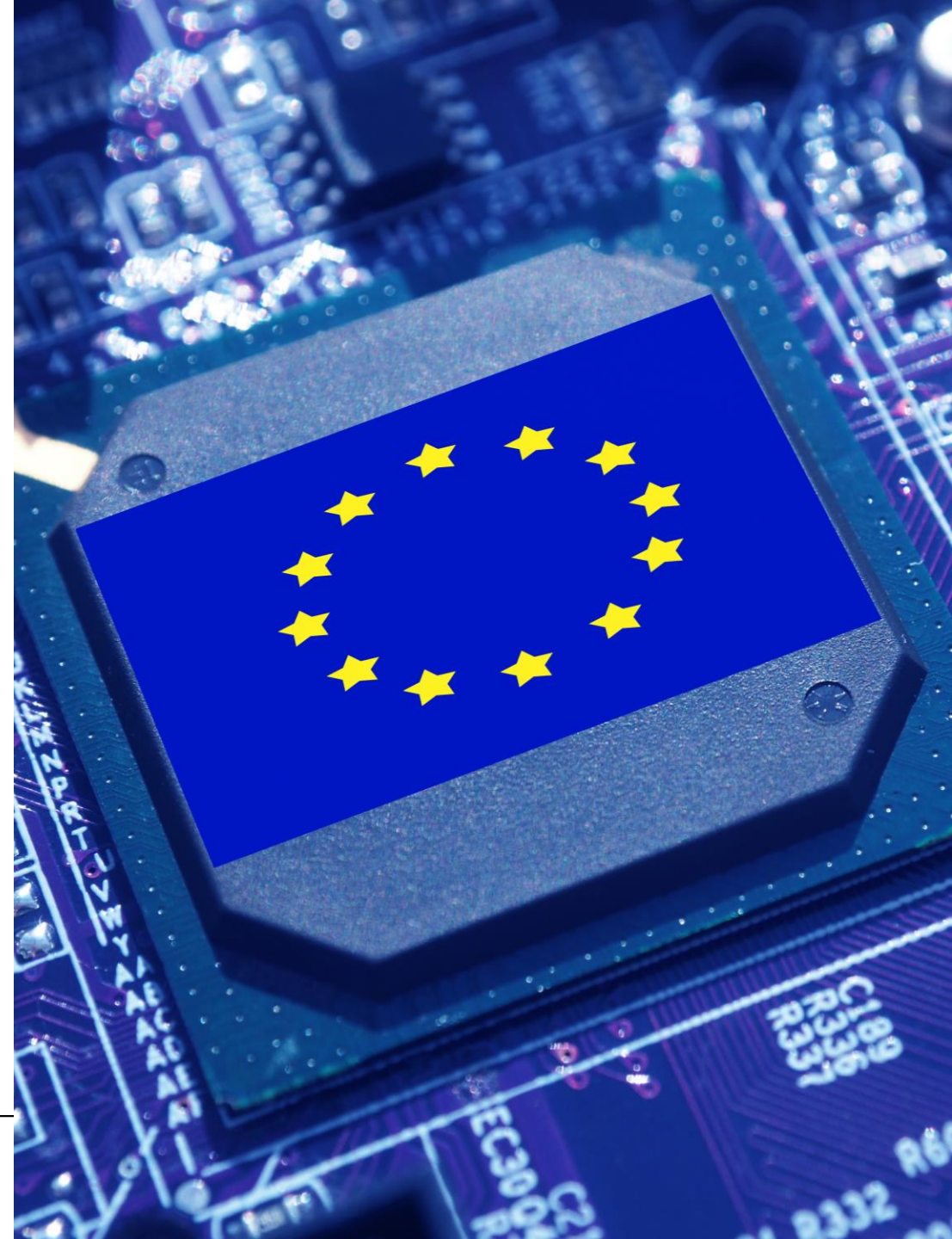
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**Toni Mattila**

Head of Microelectronics, Photonics, and Quantum (HW Tech)

# Background

- Digitalization (esp. AI and the Metaverse) and even Green Transition are dependent on the **physical technologies** that enable them
  - Industry expected to break US\$ 1 trillion by 2030
- Fabrication has become highly centralized
  - **Resilience** (risks mitigation)
  - **Leadership** of technologies of the future
- EU invests €43 billion to strengthen Europe's technological leadership in design and manufacturing
  - The **European Chips Act**
    - Chips for Europe Initiative
    - Security of Supply





# Opportunity for Finland?

- Finland has long and successful track record in the industry
- Today over 300 companies in the industry
  - Multiple global leaders but majority are small
  - Growth rate of 14 % pa between 2020 – 2023\*
  - Half of the company exports > 80 % of turnover
- Industry is expected to grow significantly\*\*
  - € 2 billion in 2023 to € 6 billion in 2032 (13 % CAGR)
  - 5 000 employees in 2023 to 20 000 in 2032 (17 % CAGR)





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# Goals of the Business Finland Campaign/Program

Help companies and research institutes to **seize opportunities** in the developing European value chains.

Activate companies and research institutes to **R&D projects** to identify new areas of future business growth.

Help companies to grow and create new business in **key markets globally.**

Promote Finland as a lucrative business location for both **R&D** and **production.**

# A CAMPAIGN ON "MPQ" (HW TECH)

## KEY SERVICES

### **1 SERVICES FOR R&D DRIVEN GROWTH**

Funding, advisory and partnering services to accelerate business growth and expansion into new technological areas. For individual companies but especially for company groups and R&D collaboration with research institutes. Both national (BF) funding and EU funding instruments (esp. Chips JU).

### **2 TRADE SERVICES**

Help for companies to find partners and build networks. Target countries in addition to European countries are Japan, Taiwan, and USA.

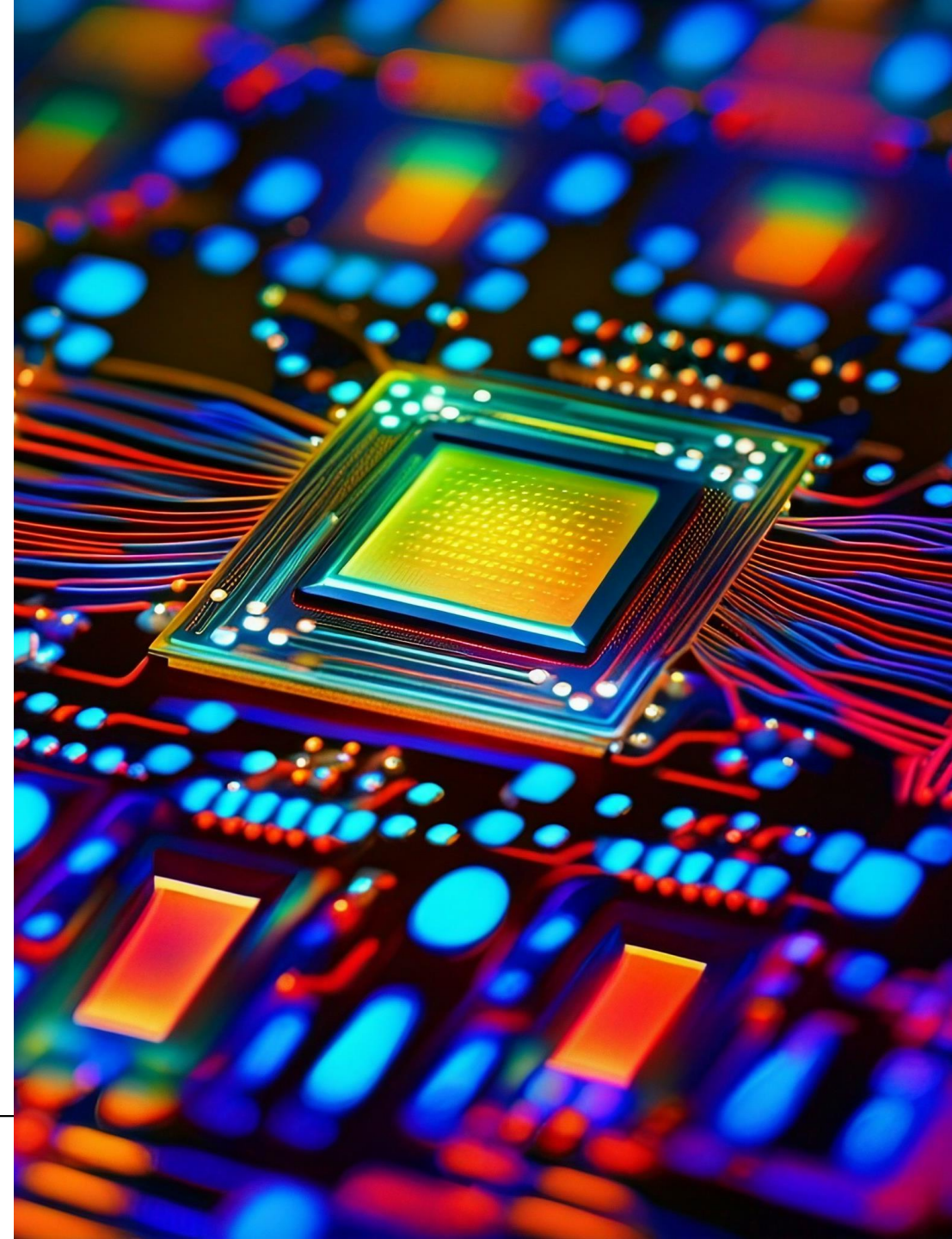
### **3 INVESTMENT SERVICES**

Help for foreign companies in finding business opportunities and starting a new business in Finland.



# Goals of R&D Services

- With the help of advisory, partnering and funding services
  - A. Accelerate R&D driven business growth in existing key business areas
  - B. Create foundation for new business areas
- Funding opportunities
  - Business Finland funding portfolio (R&D, R2B, YIC (NIY), Tempo, etc.)
  - EU funding, esp. Chips Act and Chips JU
- Advisory services for EU networks and funding



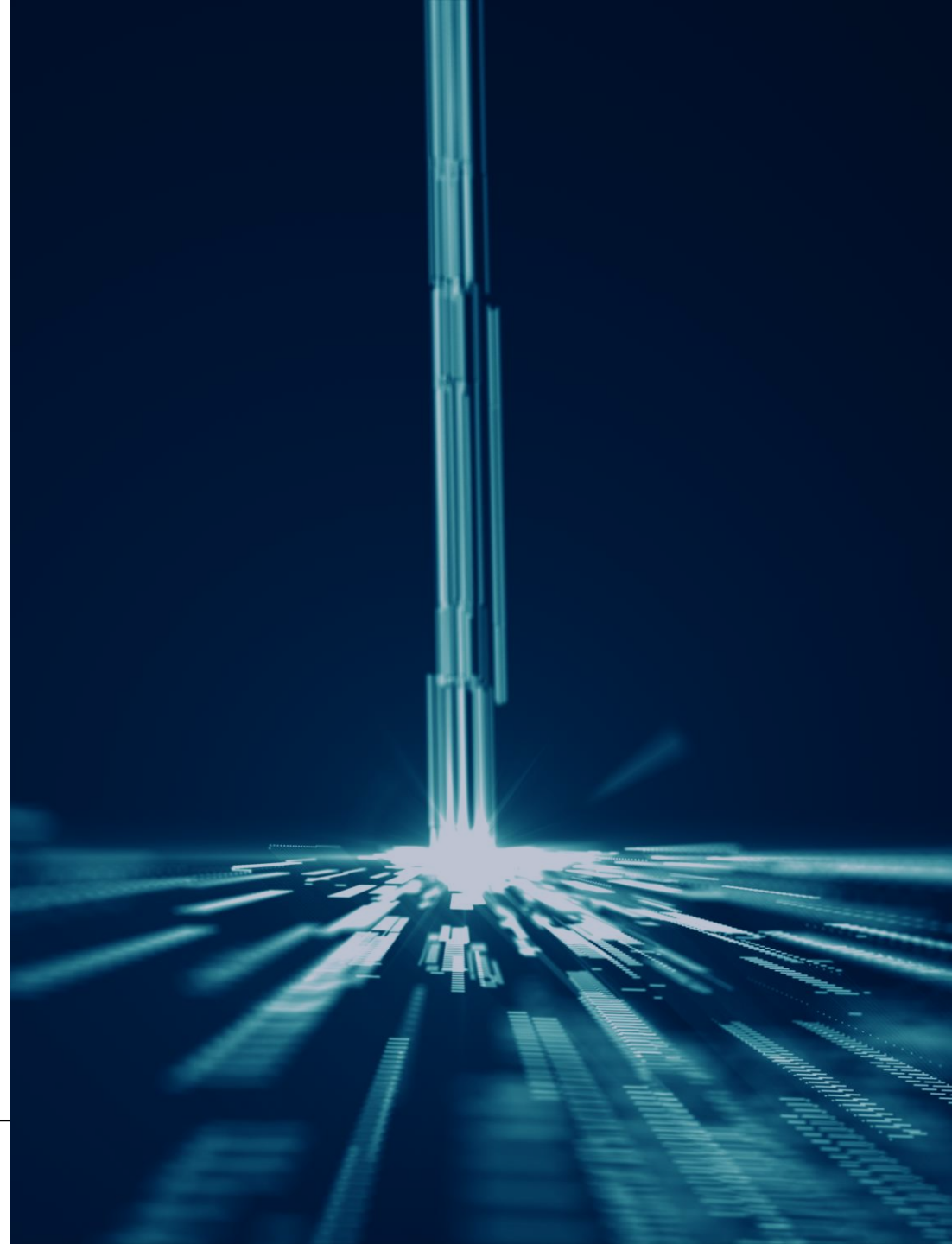
# Goals of Trade Services

- Help companies to seize emerging business opportunities in re-organizing Europe
  - Pre-commercial R&D partnerships (for EU Calls)
  - Trade partnerships
- Help companies find business opportunities in chosen far-markets
  - Japan
  - Taiwan
  - USA
  - Korea



# Goals of Investment Services

- Accelerate growth of strategic business ecosystems in Finland with the help of Foreign Direct Investments (FDI)
  - Greenfield
  - Esp. manufacturing operations





# Events and Activities in 2024

- Feb 14: Investing in Photonics and Microelectronics, Helsinki
- March 19: Chips JU Funding Call (webinar)
- April 11: “MPQ (HW Tech)” launch event, Helsinki (tbc)
- April 17: SoC cluster networking event with SIX and FIMA, Tampere
- April 22-26: Trade Mission on Photonics to Japan
- June 11: “Chip Day” in Tampere
  - AM program: Imagine the Metaverse, June 11-12
  - PM program: NordPac2024 Conference and Exhibition, June 11-13
- Sep 11-13: Electronics Systems-Integration Technology Conference (ESTC) in Berlin
  - Technical conference and tradeshow



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11.-12.6.2024 – Nokia Arena

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# IMAGINE 2024

Imagine the *metaverse*

# Chip Day in Tampere 11.6.2024



Exhibitors



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IMAPS Nordic Annual Microelectronics Packaging Conference and Exhibition (NordPac)  
11 - 13 June 2024 in Tampere, Finland

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**IEEE**  
**ES**  
**TC**  
**EPS** Electronics  
System-Integration  
Technology  
Conference

# ESTC 2024

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SEPTEMBER 11 - 13, 2024

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# Trade Exhibition and Sponsorship Opportunities

- Present your products and services to more than 350 experts from all over the world
- Give your company strong visibility by sponsoring ESTC 2024





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**THANK YOU FOR  
YOUR ATTENTION**



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