Business Tampere FKE Kick-off

Developing international networks for Photonics

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29.11.2023 Business Tampere, N. N.



businesstampere.com #businesstampere

Business Tampere!

Investment promotion agency

Ecosystem developer and coordinator

Your business. Our passion.

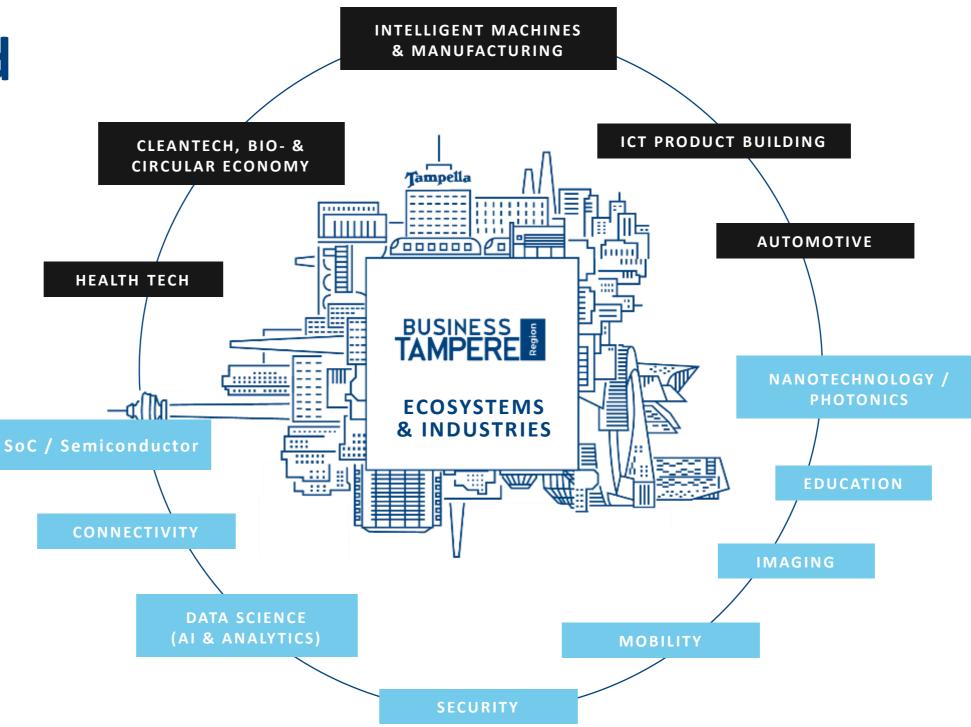




Economic Development agency

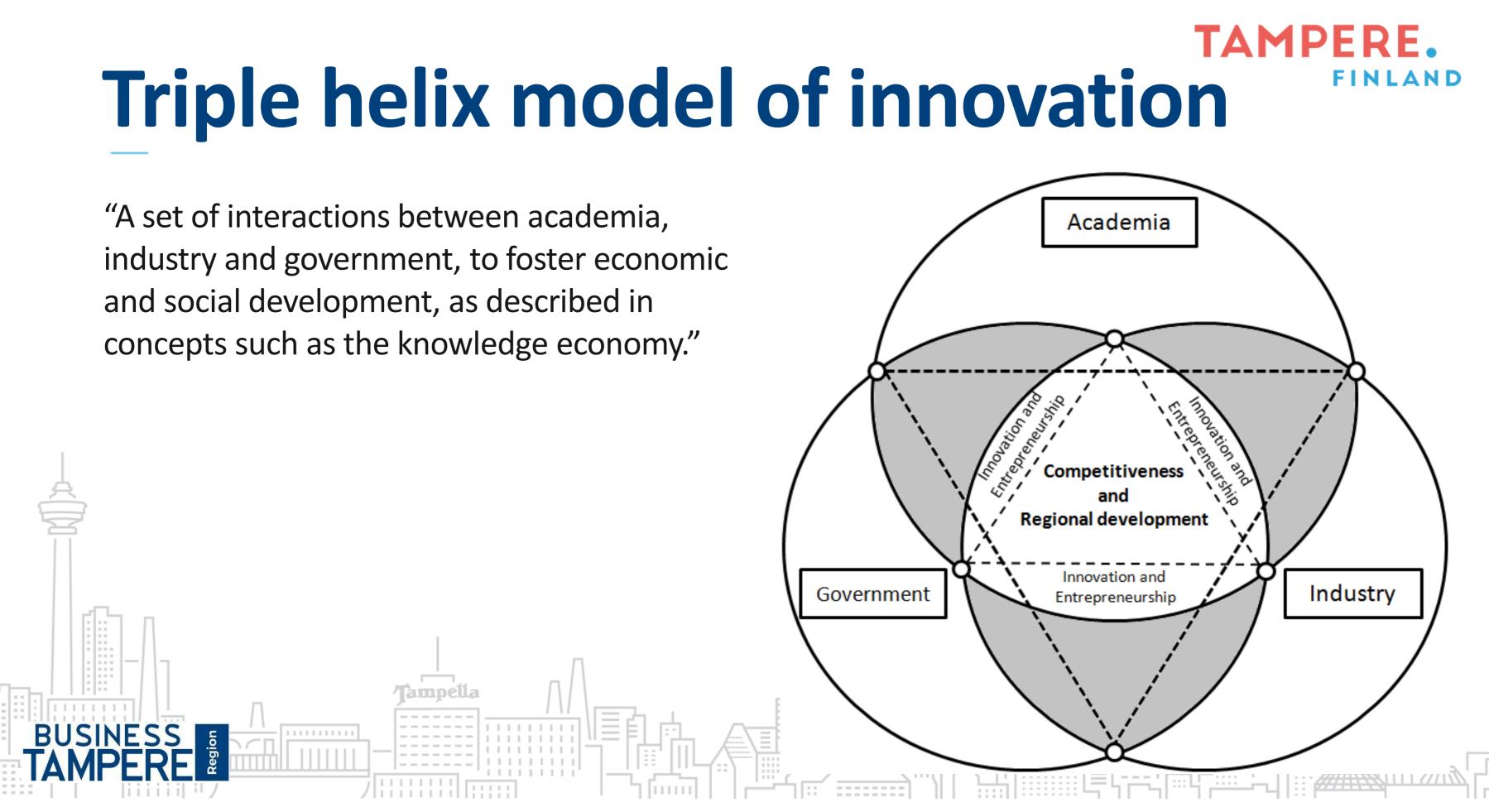
Top Industries and Ecosystems in the Tampere Region

To support the business growth and to boost innovations in the region and beyond.





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Tampere Imaging Ecosystem

One of the top imaging hubs in the world



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Networking events, international audience in Tampere e.g. VCX conference, 2019

Facilitate multi-party PoC and Ecosystem development projects

International partner matchmaking

Stimulate research collaboration between businesses and university

Facilitate Business to education discussions

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News!

Tampere won bid to host ICIP 2026

- IEEE International Conference on Image
 Processing
- Date: 13-17 September 2026

IEEE Sign Proc



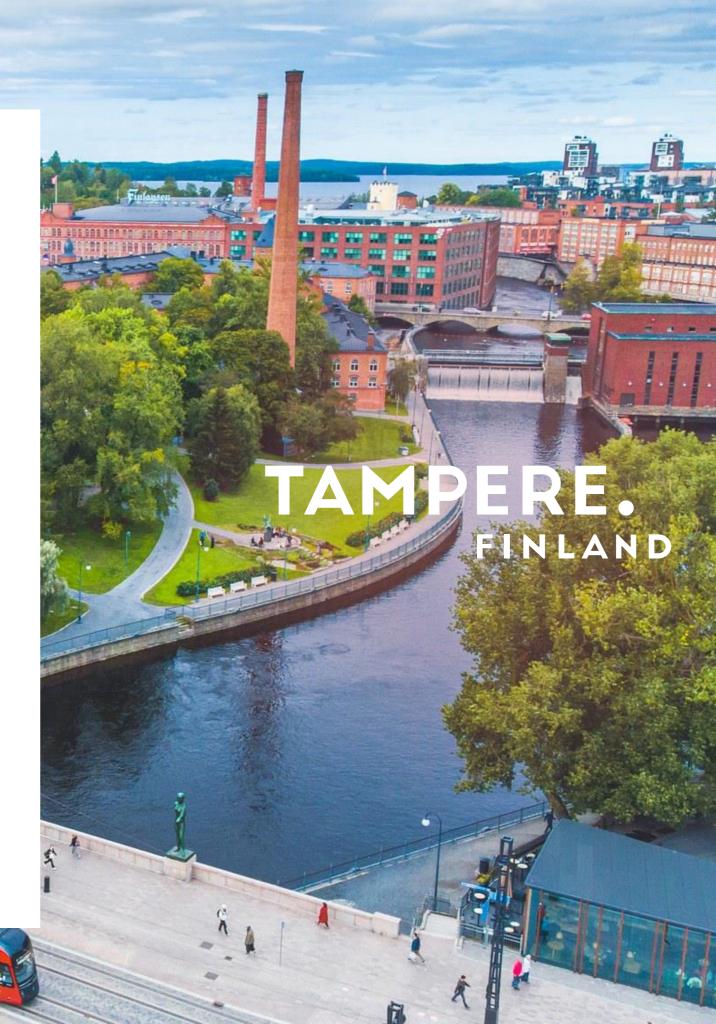
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Last event, Nov 9th : Format

- 1. Short presentations
- 2. Entertainment !
- 3. Dinner, drinks & demos
- 4. Networking until late





Event : Speakers

- Primax Electronics Ltd.
- Microsoft Hololens
- Varjo

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- Grundium
- OptoFidelity
- CIVIT, Tampere Univ.
- TAUCHI, Tampere Univ. Jari Kangas
- Im.Engine Igor Shevkunov
- Crispy Erdem Sahin
- LensMakers Mikko Juhola
- Tampere Imaging Facility Sanni Erämies, Tampere Univ.

Liisa Peltonen, General Manager, Surface Camera Jobin James, Senior Product Manager

Matt Severaid, Director, Strategic Engagements

Pasi Syvänen, Head of Engineering

Lasse Lepistö, CEO

Jussi Rantala

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a & Finland ISO/TC 42	
— WG 3	Image measurement, viewing and sensitometry
WG 5	Phsical properties and image permanence of photographic materials
WG 8	Imagining materials - Dimensions
WG 18	Electronic still picture imaging
JWG 20	Digital still cameras
WG 23	Extended colour encodings for digital image storage, manipulation and interchange
JWG 26	Imaging system capability qualification for archival recording and approval
JWG 27	Image permanence & durability test methods and specifications for digital prints in commercial applications

Demos

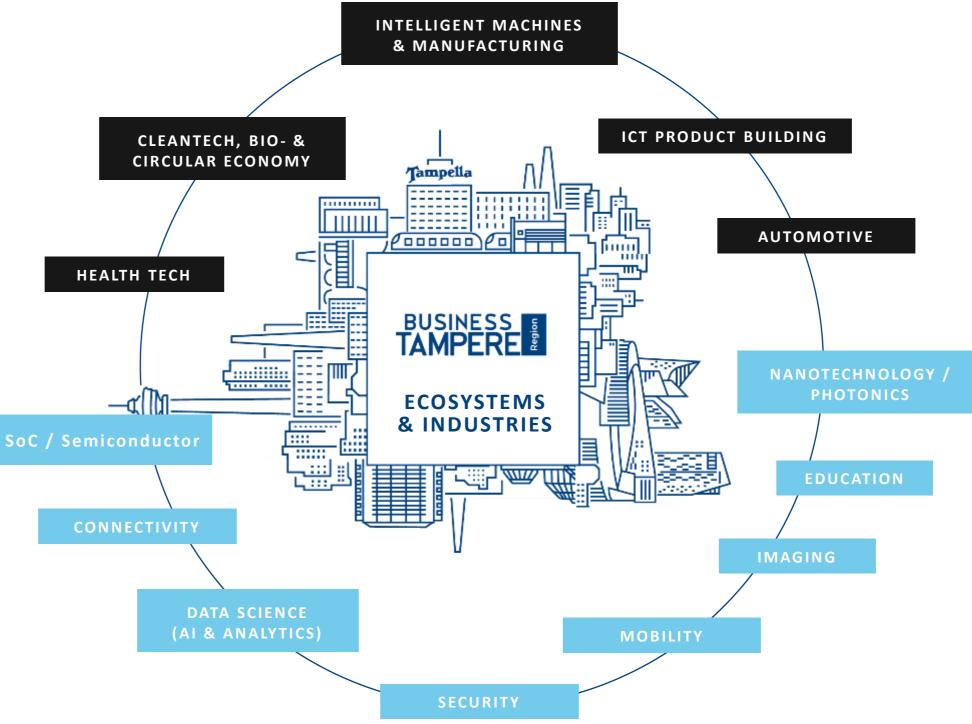
- Microsoft Hololens
- Varjo
- Grundium
- CIVIT, Tampere Univ.
- TAUCHI, Tampere Univ.
- Crispy
- Tampere Imaging Facility



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Other Ecosystems /Clusters





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Growing SoC Cluster

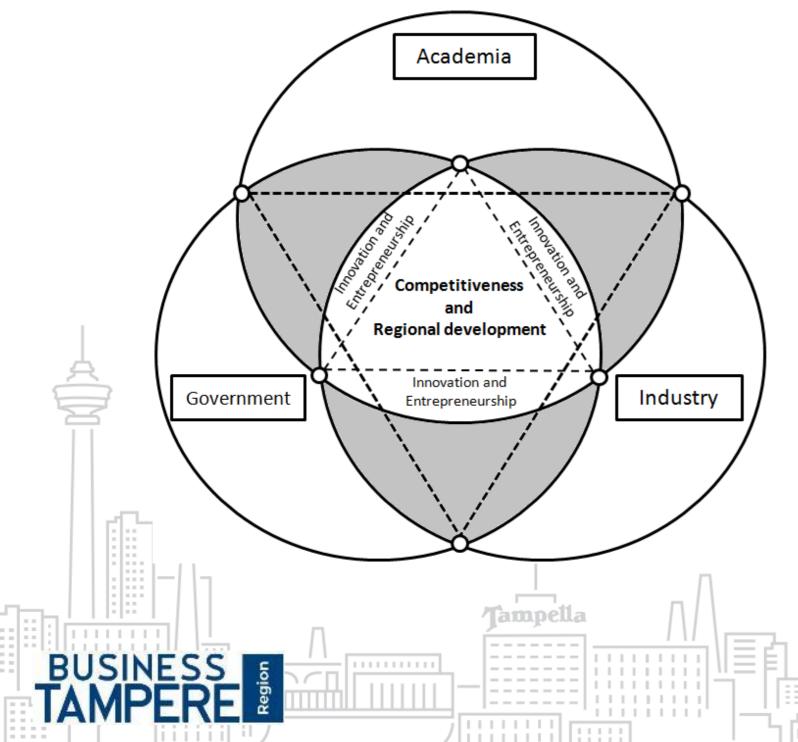
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• Microsoft is the 2nd Tampere SoC FDI in past 2 years Nokia's largest SoC site globally, developing 5/6G





NOKIA

"This partnership is part of an exciting joint project that accelerates silicon innovation and ultimately enables operators to realize the benefits of 5G."

Jyrki Vuorinen Dean of the Faculty of IT and Communication Sciences, **Tampere University**

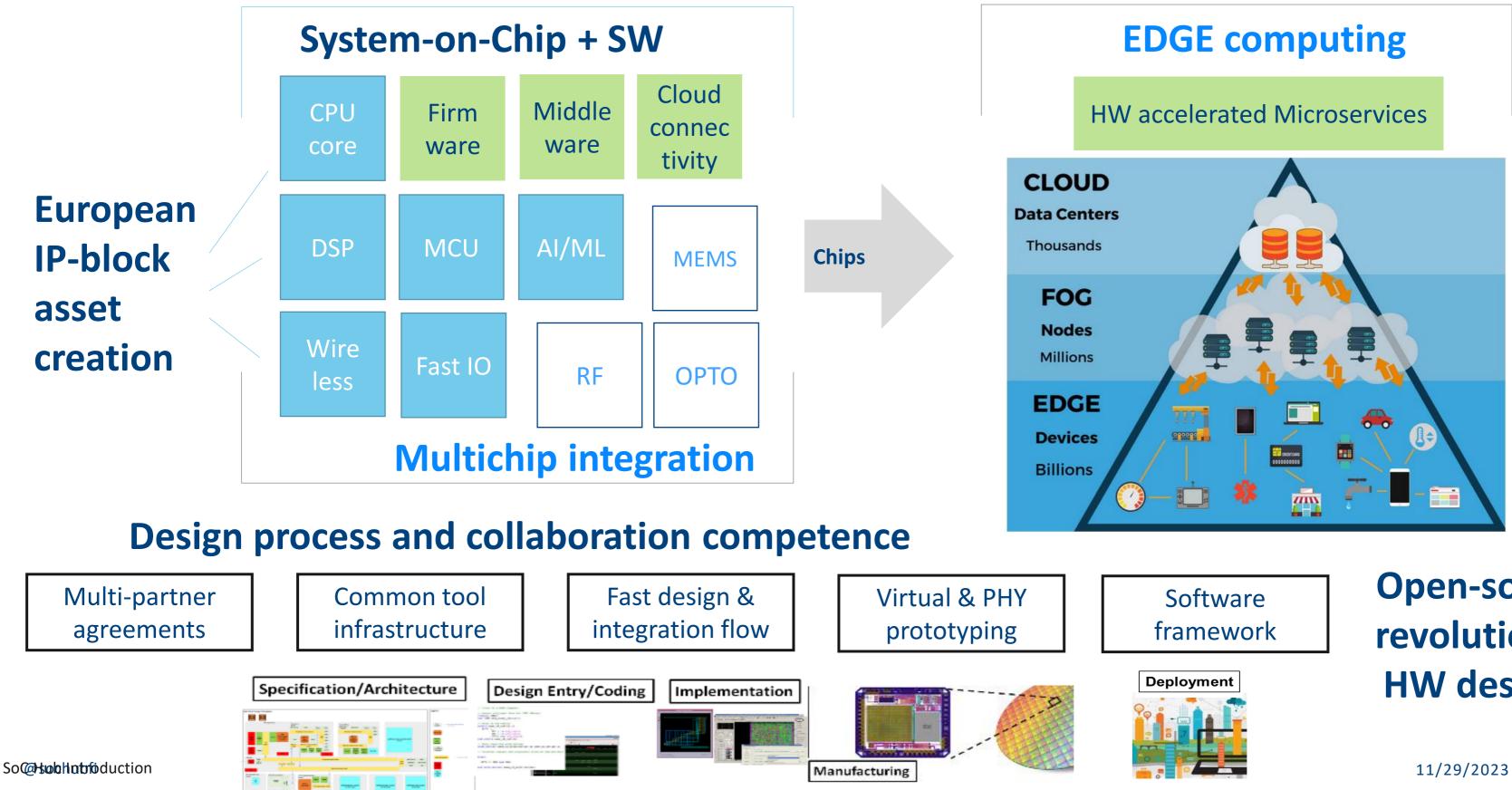
Close "Triple Helix" cooperation between companies, university and city region National iniciative ٠

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TJ Tampere University

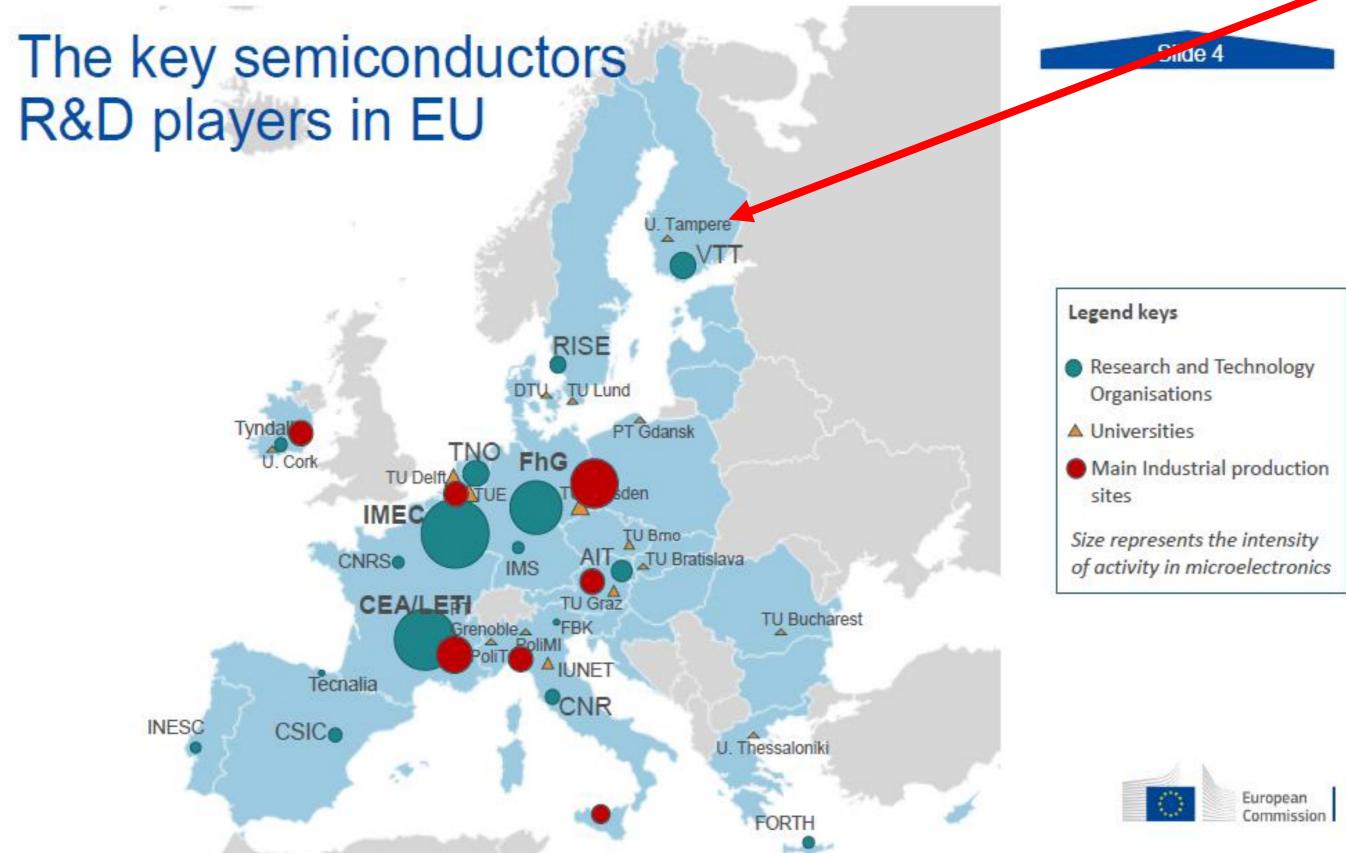


SoC Hub competence



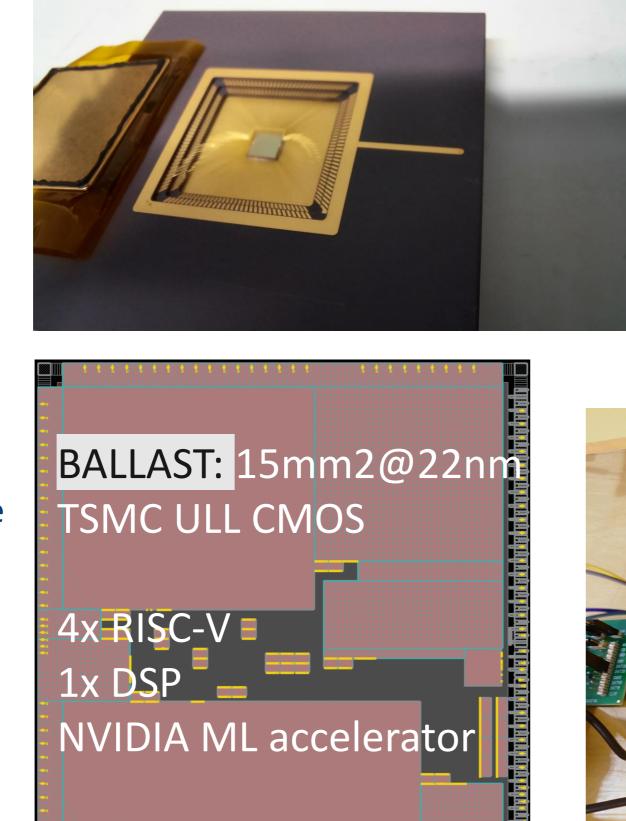
Open-source revolution in HW design?

SoC Hub





SoC Hub chip "Ballast"

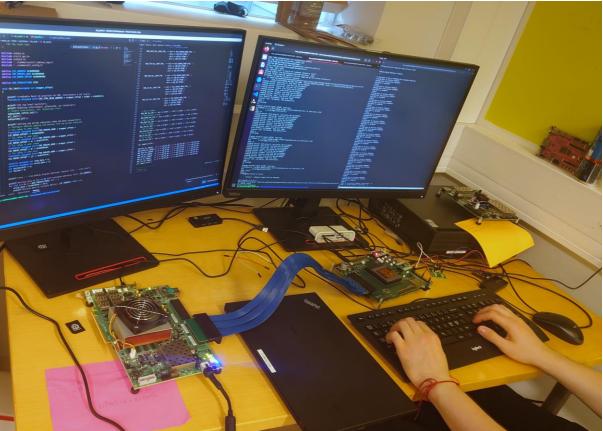




2023 Headsail



2021 Ballast



Photonics in Tampere - "Laser valley"









Circular Economy and Cleantech Ecosystem



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•

- sectors
- ٠ transition
- value/service chains
- and mobility, ICT and AI
- board!

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Cross-sectoral ecosystem for companies Operating in bio & circular economy and cleantech

Offering products or services related to green

Interested in resource efficient low-carbon development of their own operations and

Ecosystem companies are involved in various sectors i.e. energy, industry, material management & recycling, bioeconomy, built environment, water sector, logistics

Tampere regional climate partnership engages companies and communities in pursuing a carbonneutral city region in cooperation with the Sustainable Tampere 2030 program – 125 partners already on

Tampere Chip Program

- station of an

New iniciative

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Regional Chip Ecosystem







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Business models

vides lead frames and ackaging materials

embling, testing packaging

ng, testing and packaging of chips





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Distributing, OEMs

Different end-user sectors utilizing hips in e.g., consumer electronics, automotive, industries.









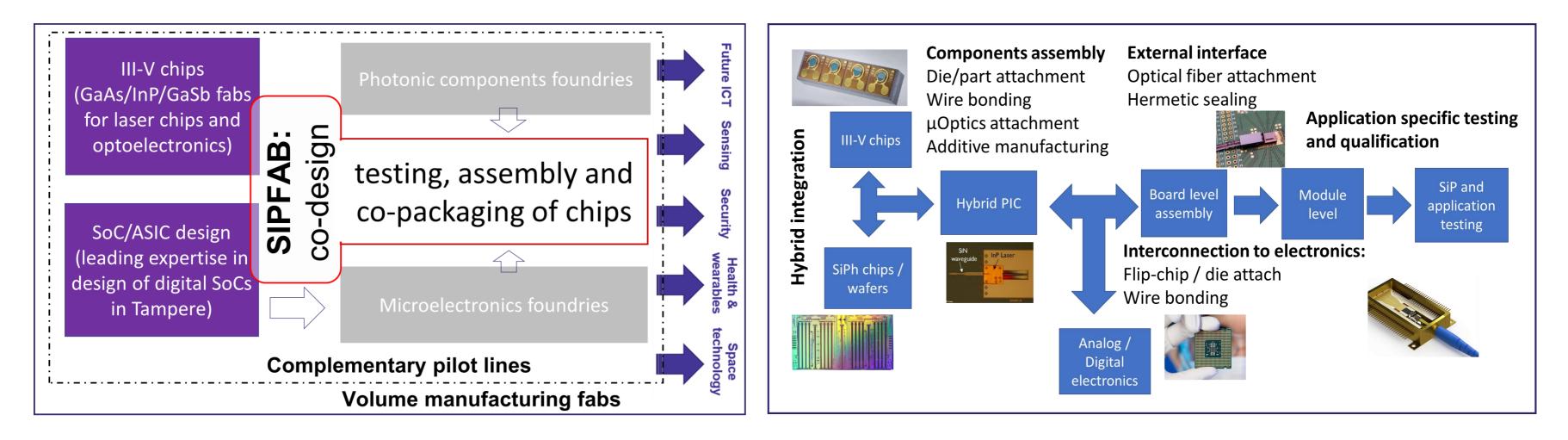








<u>SIPFAB</u>: Pilot Line for Packaging of Hybrid Microelectronics-Photonics System of Chips (System-in-Package)





Your #1 Partner

...when relocating to Tampere Region!

New R&D sites Business Tampere supported:



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BHTC

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for better experiences



PowerVision SCANDIT

Conclusion

- We'll utilize these cross-pollination principals in this project, with a <u>wider national approach</u>
 - Imaging & Photonics
 - SoC & Photonics, as part of Chips from Finland
 - Photonics & Circular Economy
- Tampere role in project is internationalisation, networking
- Seek to attract international event



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Business Tampere Team at Your Service!

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