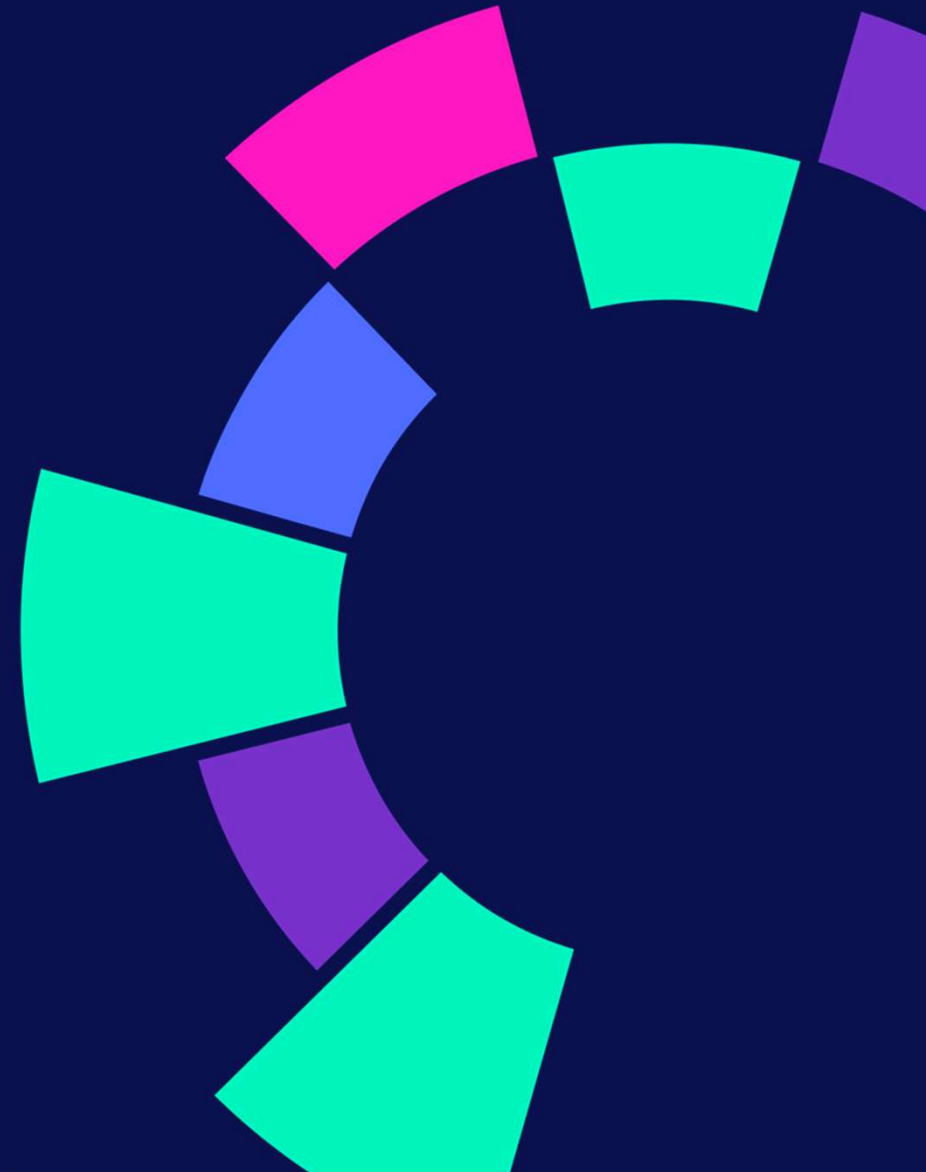


How we co-create in Finland?

Building a culture of experience sharing among industry, research organizations and SMEs

Case of Reboot IoT Factory



Erkki Siira / VTT

- Researcher at VTT Technical Research Centre of Finland
- 15 years expertise in research projects
- Background in ICT
- Scale-up coordinator in Reboot IoT Factory –project
 - Help proof-of-concepts to expand from one Factory



Digitalisation in Finland

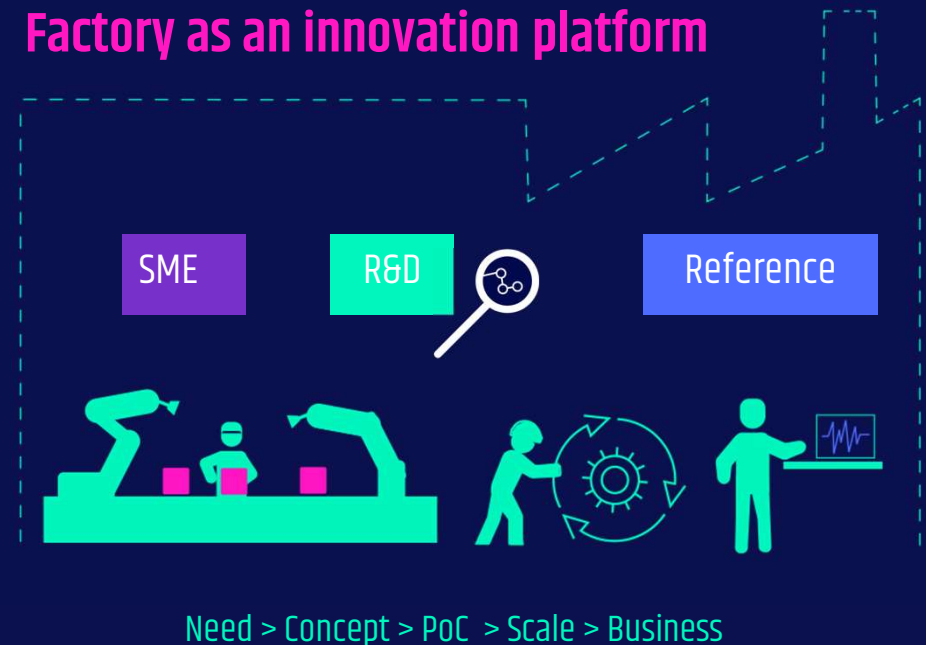
- Companies want to have solutions that exceed what is in the market
- Want to utilise SME & research innovations, but these "do not meet" in size or content
- New business models e.g. based on data sharing haven't taken off
- Uncertainty of new technology and business case- which ones to deploy?



Reboot IoT Factory

- Solving industry grand challenges derived from corporate strategies
- Leading factories, research and SMEs work together
- Experience sharing
- Factories open up their production environment for joint development.
- BusinessFinland funding increases SME collaboration

Factory as an innovation platform



Collaboration over industry siloes - no competitors



Experience sharing

- An atmosphere of trust among partners
- Results of Proof-of-Concepts are presented to all partners
- Factory tours around Finland
- Factory staff introduced to other company digitalisation
- Scaling up the best solutions



Identified keys to success

- Factories being open about their challenges and their digitalization processes
- Cross-pollination of people and ideas
- Constant communication in consortium
- Broad SME collaboration in PoCs
- Not deciding everything at the beginning but to have open mind
- Funding from Business Finland



Few selected cases from Reboot IoT Factory

AI Planner

- Two SMEs – Unieke & TopDataScience are implementing AI aided resource and production planning
 - Nokia basestation factory
 - GE Healthcare patient monitor factory
- Optimization of production
 - Creation of algorithms with dynamic constraints
- VTT is researching and implementing the optimization of use of labor
 - Skills, wellbeing, scheduling, etc.
 - Integration with AI Planner

NOKIA

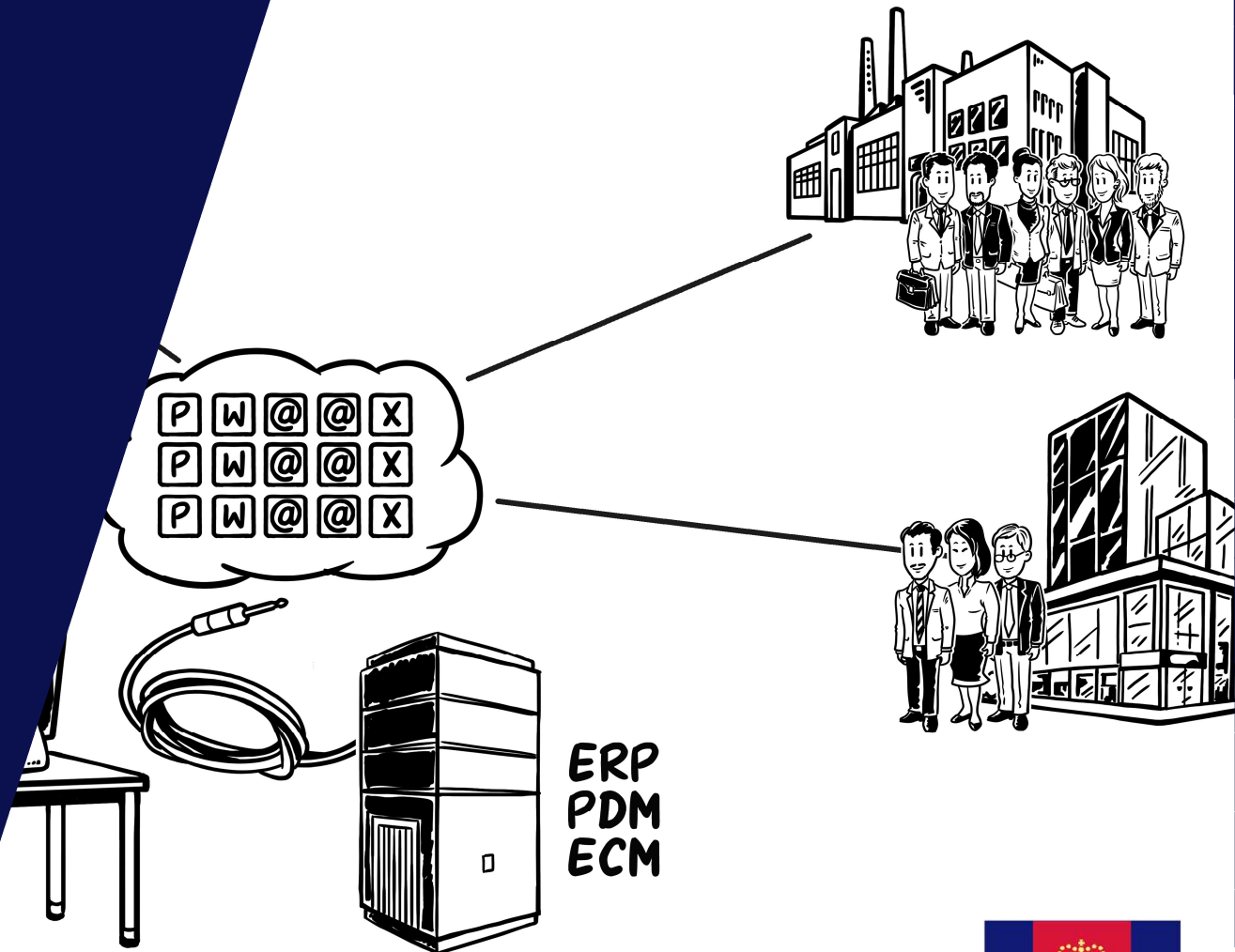


TOP data science

UNIKIE

Transparency in supply chain

- Jakamo (SME) is working with KONGSBERG to increase transparency in supply chain
- Handling of RFQs and claims at the first phase
- Transparency increases the predictability of supply chain for all actors
- Reduces manual work with emails, calls, etc.
 - References up to 70% reductions





Thank You!

"Reboot increased our capacity in such extent that we can transfer more production to Finland."

- Heli Huhtala, GE Healthcare

"Smaller companies like us usually don't get a chance to work with bigger industry companies."

- Finnish SME

"Innovation potential of researchers has shifted towards industry needs with over 200 visits to factory production." - Coordinator at Research Institute

rebootiotfactory.com

