

# EU Brokerage Event

## on Industrial KET\* in Horizon Europe

\*Key Enabling Technologies

10th November 2022 • Strasbourg

Conference &  
Bilateral/B2B Meetings

Calls  
2023- 2024

**Project idea/ Field of expertise:**

Systems Engineering for complex industrial systems / Formal verification

**Organisation Name:**

VTT, Finland

**Addressed topic(s):**

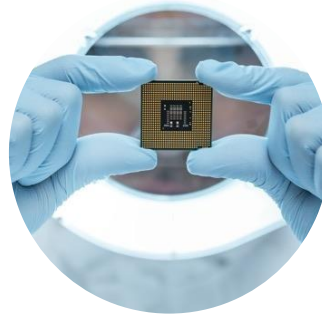
Systems Engineering  
Industrial automation / I&C  
Verification & validation  
Formal methods



**Carbon neutral solutions**

**254 M€**

turnover and other operating income



**Digital technologies**

**2,093**

employees



**Sustainable products and materials**

**32%**

a doctorate or a licentiate's degree

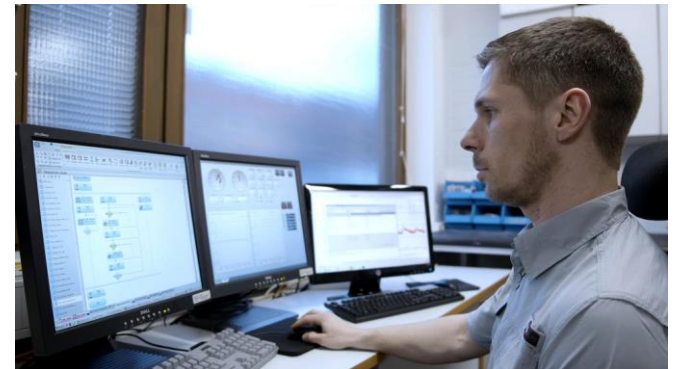
- VTT is the recipient **most of the EU research funding in Finland** of (18% of 2020 Horizon funding)

# Systems Engineering for complex industrial systems

- **Systems Engineering (SE)** highlights coordination between engineering disciplines, and holistic approach over the life-cycle.
- **Model-based SE (MBSE)** emphasizes a formal approach to system requirements, design, analysis, verification & validation.



- MBSE is needed for **designing complex industrial systems**.
- **Formal verification** of design solutions promotes safety & sustainability + streamlines the system design process



# Contact details

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## Contact person

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