

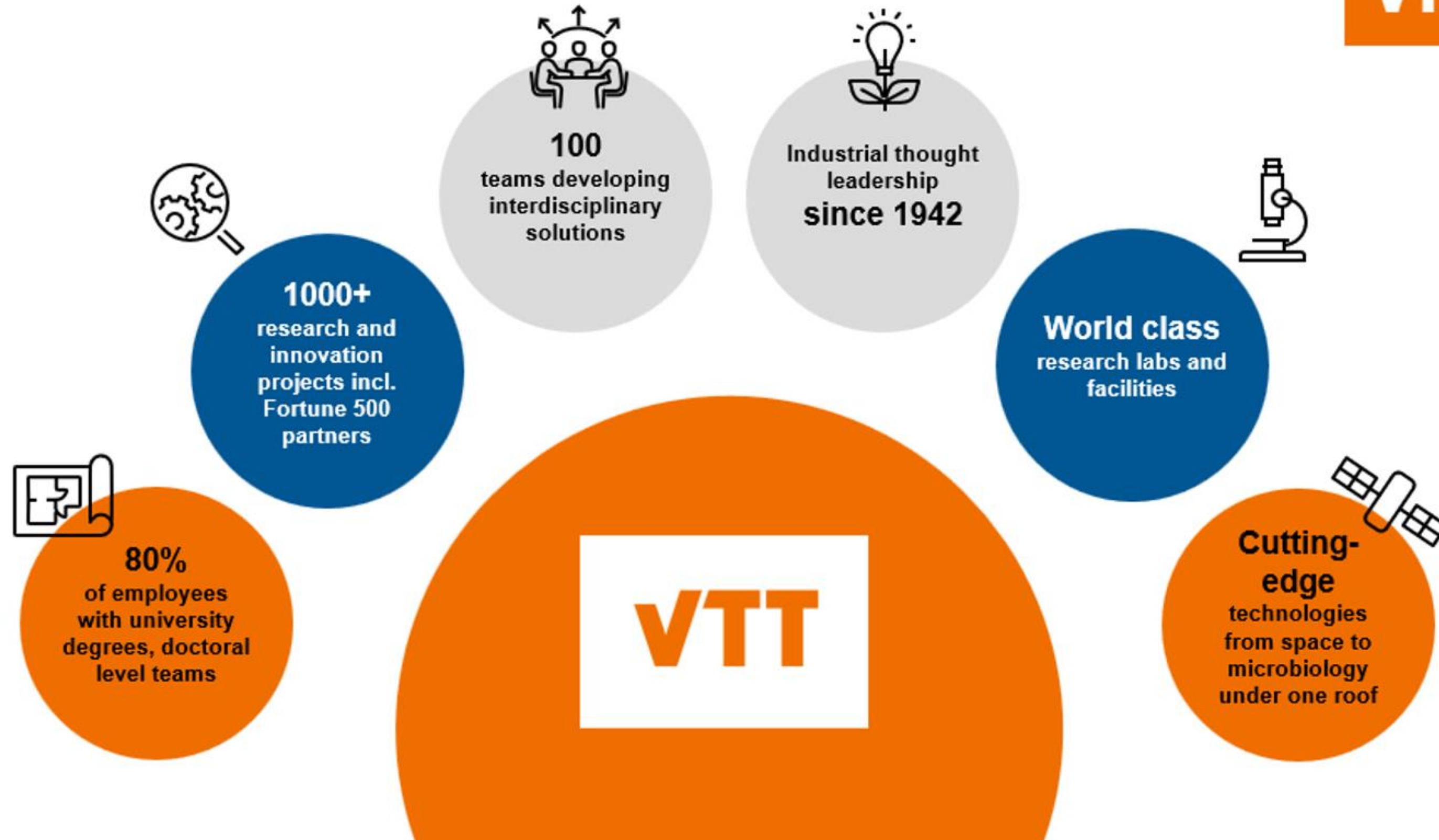
# **MADE IN EUROPE DRAFT TOPICS 2025**

## **ONLINE PITCHING**

Presenter: Ali Usman, VTT Finland, Senior Scientist

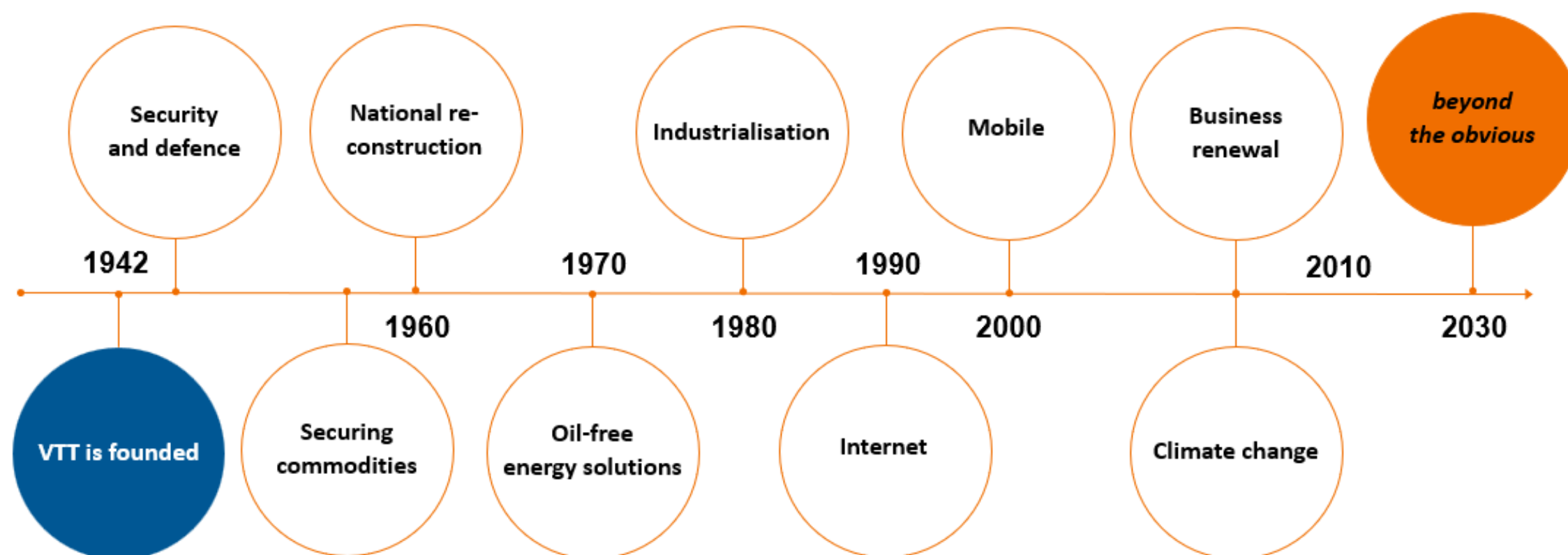
**3 April 2025**

# INTRODUCTION TO VTT Technical Research Center, Finland





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## VTT – *beyond the obvious*

Through scientific and technological means, we turn global challenges into sustainable growth for businesses and society.

## We Create Solutions in Three Business Areas

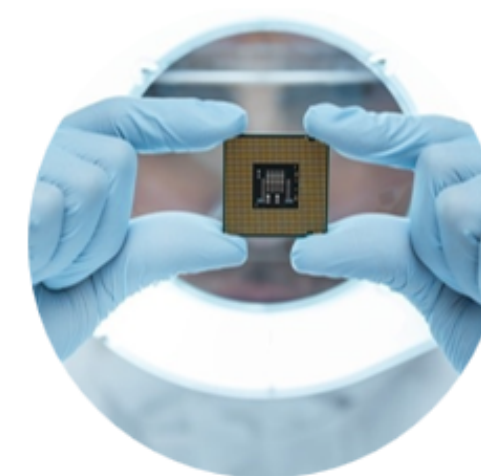
Carbon-neutral solutions



Sustainable products & materials



Digital technologies



VTT's Research  
Information  
Portal  
<https://cris.vtt.fi/>



### **HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-01: Integrated approaches for remanufacturing (Made in Europe Partnership) (IA)**

- Project Idea: Augmented AI-integrated Maintenance—remanufacturing of machine components
- A consortium has already been created (universities plus companies), but new collaborations are always welcome
- We are looking for machine component manufacturers as project partners to implement the research and business plan

## HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-01: Integrated approaches for remanufacturing (Made in Europe Partnership) (IA)

What can you offer as a project partner?

- Tribological and material testing
- Material development, MAP, AM, powder metallurgy...
- Material characterization
- Modelling and simulation
- Dedicated EU proposal writing team assistance
- Commercialization of the research
- Finance management facilities
- Access to an existing network of contacts.

### Characterization

- Profilometers
- Scanning electron microscopes
  - FIB-SEM
  - FE-SEM
- XRD
- XRF
- AFM
- Optical microscopes
- Hardness
- Indentation (nano+micro)

### Testing equipment

#### Tribological testing

- Pin-on-disc / Ball-on-disc tribometers
- Scratch testers
- Twin disc tribometer
- Rec-tester
- Static friction tribometer
- Slurry pot erosion tester
- Ball cratering tester
- Rubber wheel tester
- MTM

#### Machine element testing

- Rolling bearing tester
- Journal bearing tester
- FZG test rig

# THANK YOU

**Contact:**

Ali.Usman@vtt.fi

<https://www.vttresearch.com/en>

Phone +358504081909

3 April 2025