

Materials Performance Competence Spearhead, PerforMat



What?

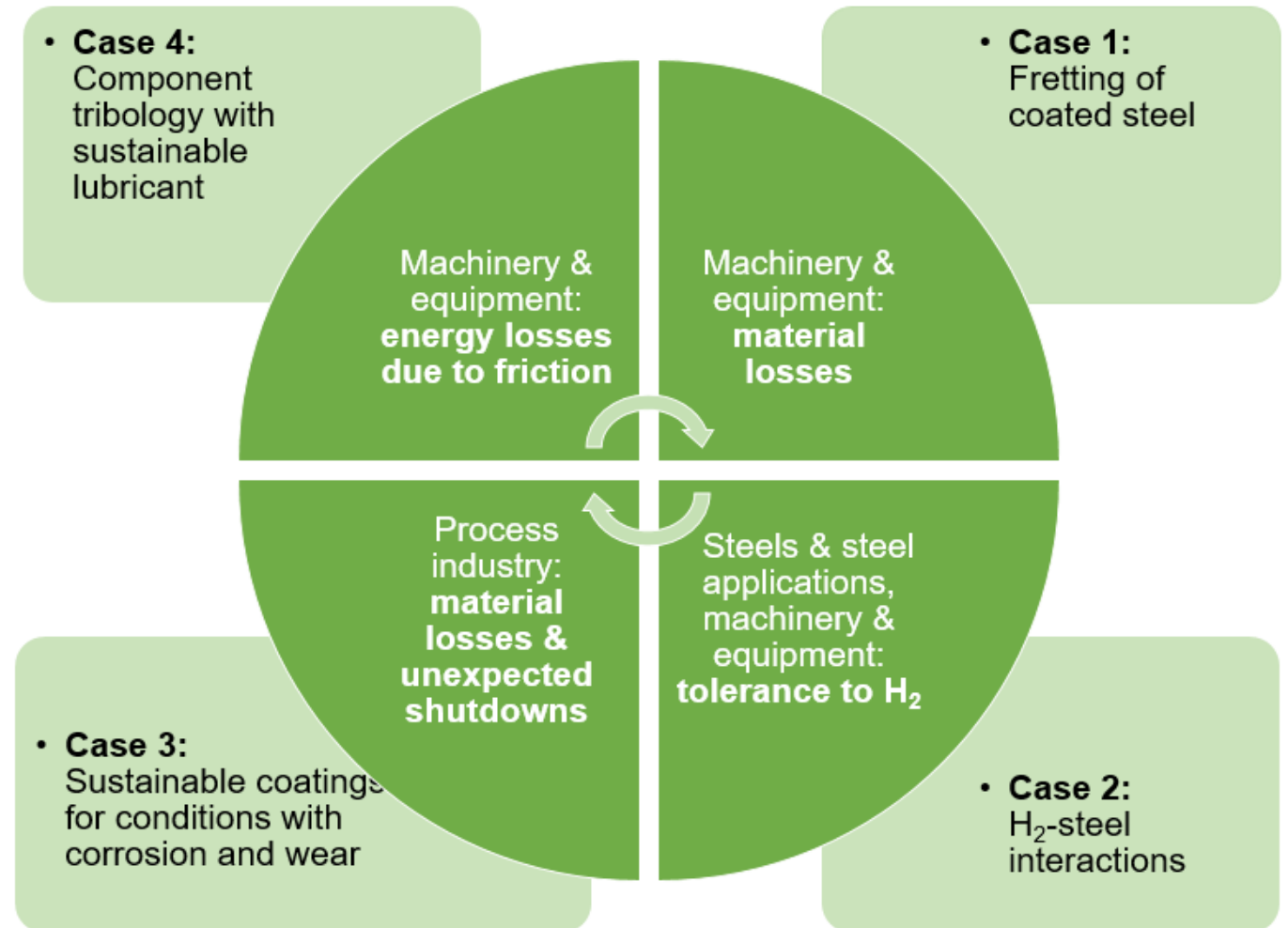
- *RDI Partnership network, funded by the Academy of Finland and the partner organisations*
 - Active 7.12.2020-31.12.2022
- The aim:
to support and promote the networking of higher education institutions and government research institutes with the business sector in order to boost the societal impact of high-quality research.

Why?

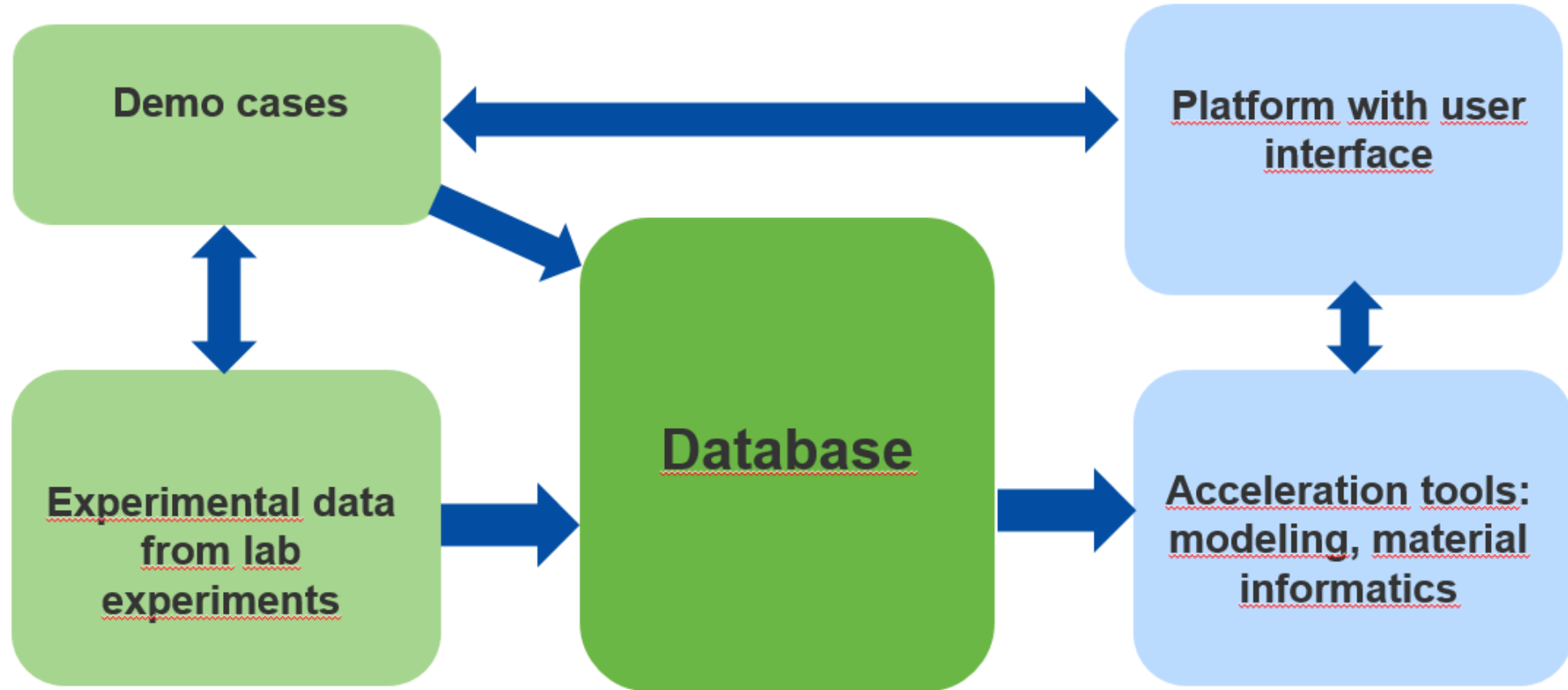
PerforMat focuses on advanced materials, targeting their optimized performance in engineering systems crucial for Finnish export through a data-centric approach.

- *Ultra-high strength steels*
- *Advanced thin films and coatings*

Industry sectors, material performance challenge & contribution of the network.



How?



Network outreach:

Interaction, knowledge sharing & dissemination

- Business sector needs
 - Questionnaire
 - Advisory board
- Seminars & webinars for knowledge sharing & networking
 - First event: 18th March 2021
- Direct communications
 - Background data for the case studies
- Publications, open data, virtual workrooms



<https://projects.tuni.fi/performat/>

Contacts:



Research prof. Elina Huttunen-Saarivirta



Prof. Petri Vuoristo



Prof. Jukka Kömi

Tribology and Materials Performance 12.5.2021

The Tribology and Materials Performance Webinar is jointly organized by the PerforMat network and The Finnish Society for Tribology. The focus of the webinar is on tribological solutions to provide material efficiency and improved performance, especially the role for advanced materials to overcome industrial challenges is highlighted.

Free online webinar

- 13:00 Opening of the seminar
- 13:05 Water-based, non-toxic, lubrication – need for new tribo-optimisation
Roland Larsson, Luleå University of Technology
- 13:30 Tribology of Medical Devices
Ion Sivebæk, Technical University of Denmark
- 13:55 Improving abrasive wear performance of polymers
Helena Ronkainen, VTT Technical Research Centre of Finland Ltd
- 14:20 Break
- 14:30 Wear problems for hard materials - from gentle to brutal contact
Staffan Jacobson, Uppsala University
- 14:55 Advanced material solutions for challenging environments
Nuria Espallargas, NTNU
- 15:20 PerforMat Materials Performance Competence Spearhead
Elina Huttunen-Saarivirta, VTT Technical Research Centre of Finland Ltd
- 15:30 Ending of the seminar

