

Aim of the project

To develop methods and tools that enable ensuring the reliability and trustworthiness of virtual experiments and digital twins in metrology.

Specific needs

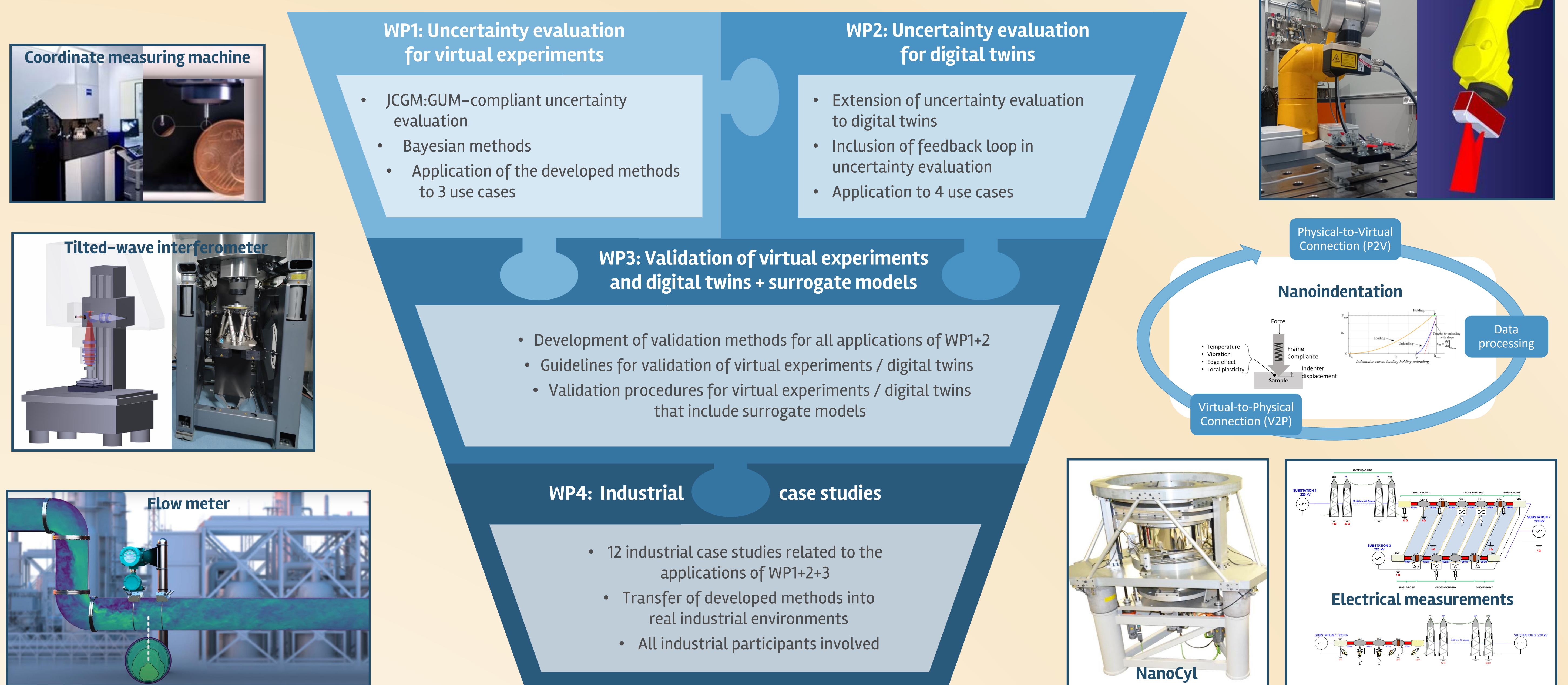
- Traceability in metrological applications, where virtual experiments / digital twins are used
- Validation procedures for metrology systems with embedded virtual experiments / digital twins
- Transferability of the developed methods to a large variety of industrial applications



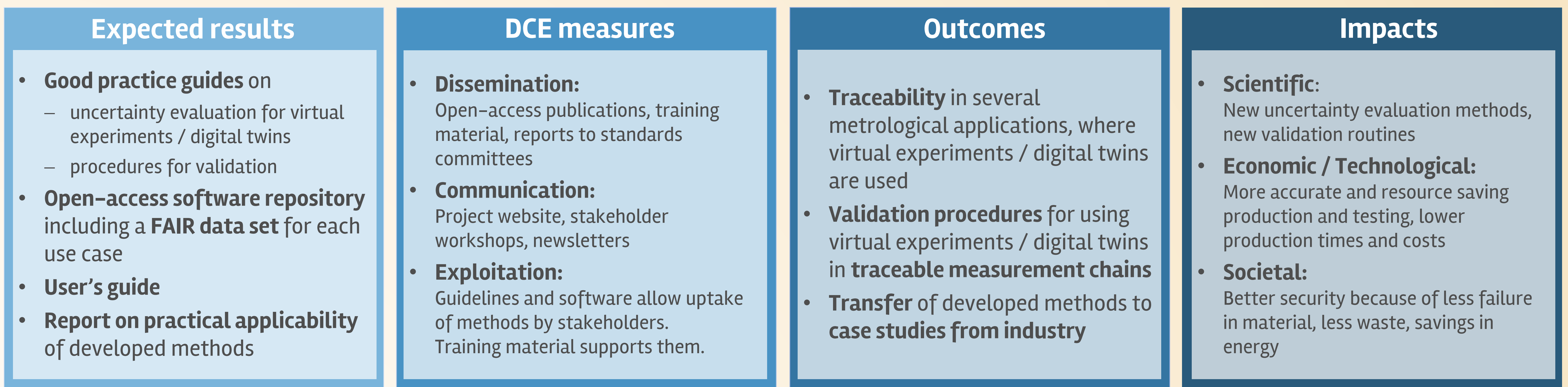
Target groups

- Metrological and scientific communities
- End users in all industry sectors, where virtual experiments / digital twins are used, e.g.
 - Optical industry
 - Flow meter manufacturers
 - Material processing companies
 - Electricity grid operating companies

Scientific objectives



Pathway to impact



Consortium



- **8 National Metrology Institutes:** PTB (Germany, coordinator, WP1 leader), FFII (Spain), GUM (Poland), INTI (Argentina), LNE (France, WP4 leader), TUBITAK (Turkey), VSL (Netherlands, WP3 leader), VTT (Finland, WP5 leader)
- **6 universities + 2 research centres:** ENSPS (France), IDEKO (Spain), PK (Poland), POLITO (Italy, WP2 leader), TEKNIKER (Spain), UNIPD (Italy), UPM (Spain), USPNI (France)
- **6 companies:** DUI (Netherlands), EMERSON | FLEXIM (Germany), GEOMNIA (France), KROHNE (Germany), Mahr (Germany), Endress+Hauser SICK (Germany)



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