

Coordinator: Prof. **Hichem Nouira**
Full research Professor at LNE-CNAM

<https://projects.lne.eu/jrp-di-vision/>
<https://www.linkedin.com/company/di-vision-project/>
https://www.instagram.com/di_vision_project/

Aims of the project

The overall objective of the DI-Vision project is to ensure the traceability of machine vision systems (MVSs) deployed in industry for macro and micro-scale applications. The specific aims are:

1. to establish traceability of existing and newly developed MVSs;
2. to develop and validate DTs of existing and newly developed MVSs;
3. to investigate novel methods of image matching algorithms using soft-gauges (reference data);
4. to investigate and validate while addressing industrial use cases;
5. to facilitate the take up of the developed technologies (dissemination and standardisation).

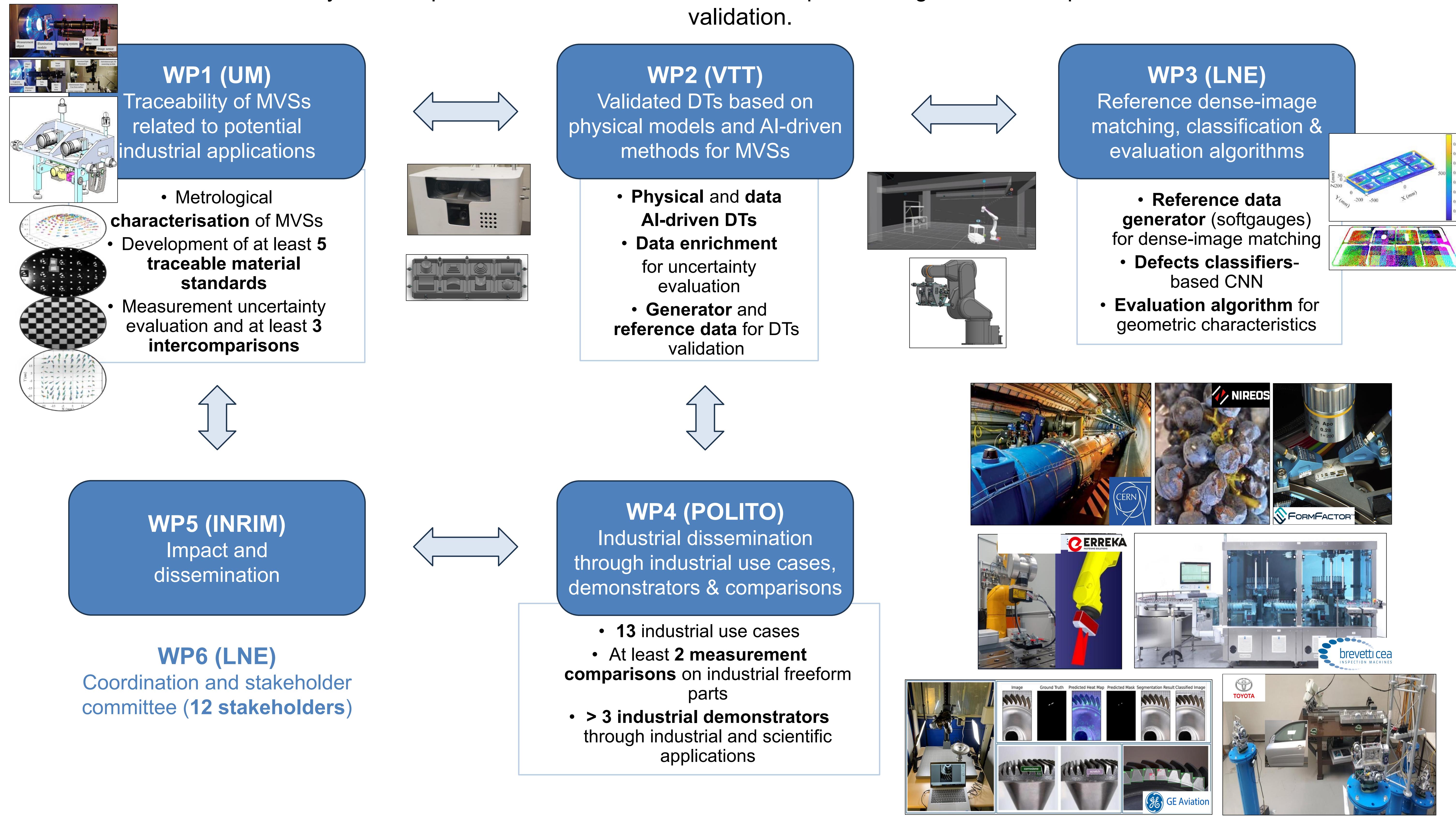
Target groups

- Manufacturers of MVSs and companies in computer vision
- Automotive, aeronautic, food, semiconductors, pharmaceutical sectors, etc
- European metrological committees
- Academic Research labs and institutions

Work programme and key deliverables

Key deliverables include:

- new calibration standards for MVS traceability;
- validated DTs for error analysis and optimisation;
- GPGs for industrial adoption;
- technical reports on algorithm development and industrial validation.



Outlook

Challenges addressed

- Traceability
- Validation
- Industrial implementation

Contributions

Higher productivity

Lower defect rates

Support EU Green Deal:

- Energy efficiency
- Waste reduction
- Sustainability

Development of traceable MVSs for digital industrial applications

Future vision

Next gen traceable MVSs enabling accurate, reliable, and sustainable digital manufacturing

Broader Impact

Scientific research
Healthcare
Metrology

Consortium



Acknowledgements

The project (23IND08 DI-Vision) has received funding from the European Partnership on Metrology, co-financed from the European Union's Horizon Europe Research and Innovation Programme and by the Participating States.