



Building up a community of users for strengthening research infrastructures (WP6)

ENHANCERIA Final Conference - 26th September 2024

WP6 LEADER: POLIMI

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Research Office

PARALLEL SESSION 1

The European Dimension of Enhance Research Infrastructures

The background of the slide is a solid dark blue. On the right side, there are two large, overlapping circles in a lighter shade of blue. A vertical bar of a slightly different shade of blue runs along the left edge of the slide.

State of the art

OUR MISSION

- support the research and innovation dimensions of ENHANCE Alliance focusing on the **role of universities as drivers and enablers of sustainable development**;
- promote the sustainability of research infrastructures, developing:
 - ✓ a common understanding of their potential among the researchers and staff;
 - ✓ new skills that can arise from their utilization by students and young researchers;
 - ✓ new and more efficient services thanks to stronger connections with industry and local territory.

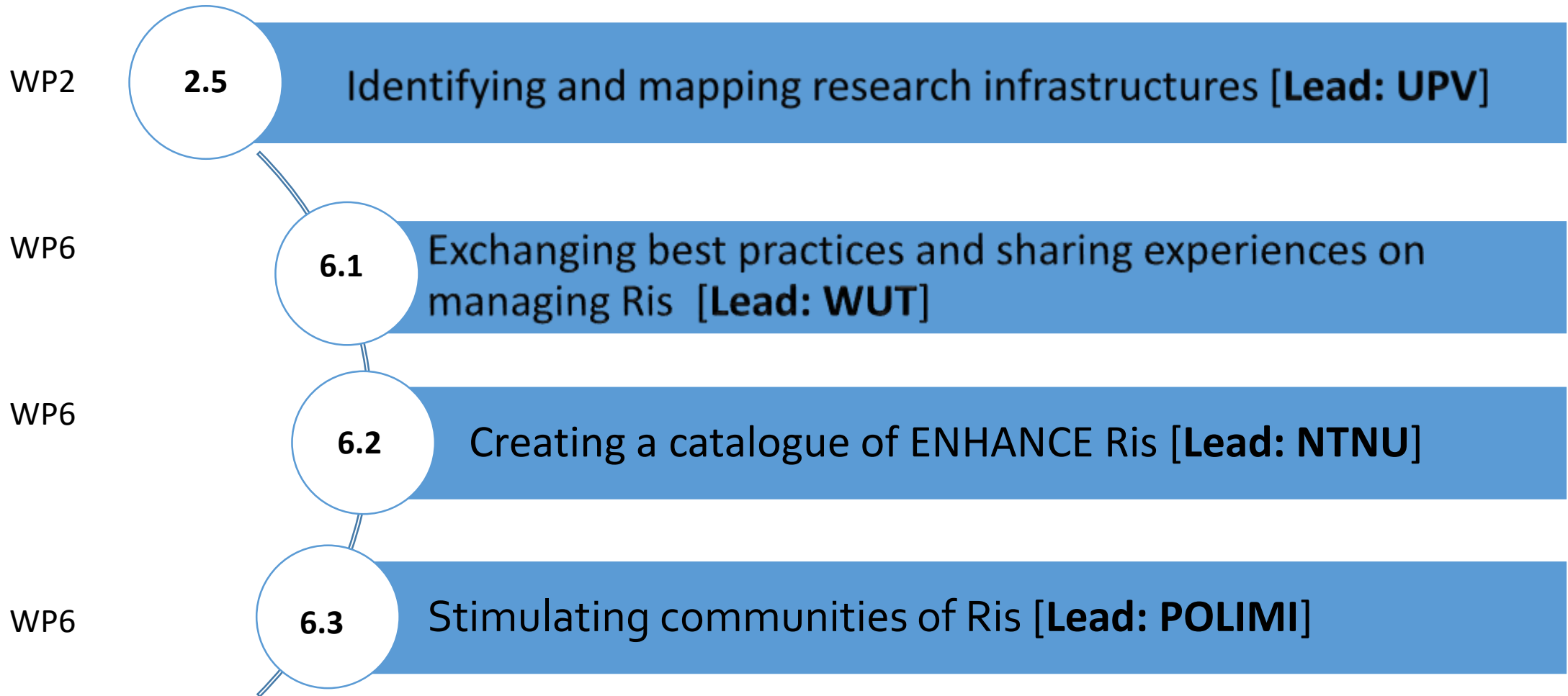
POLIMI working group# Involved Facilities

GRANDI
INFRASTRUTTURE
DI RICERCA

LABORATORI
INTERDIPARTIMENTALI

POLITECNICO DI MILANO – INVOLVED FACILITIES	
DriSmi - Driving Simulator Politecnico di Milano	Francesco Comolli (administrative manager)
LaborA – Modellistica fisica e virtuale	Prof.ssa Cecilia Bolognesi
LPM - Laboratorio Prove Materiali, Strutture e Costruzioni del Politecnico di Milano	Prof. Liberato Ferrara, Roberto Minerva (administrative manager)
GVPM - Galleria del Vento	Prof.ssa Sara Muggiasca
PoliFAB – Micro & Nanotechnology center of Politecnico di Milano	Prof. Andrea Melloni, Claudio Somaschini (clean room manager)
CFDHub@Polimi	Prof. Riccardo Mereu, Prof. Fabio Inzoli
CUSBO - Center for Ultrafast Science and Biomedical Optics	Prof. Andrea Pifferi
SOLINANO-Σ LAB - Solid Liquid Interface Nano-microscopy and Spectroscopy	Prof. Gianlorenzo Bussetti, Prof. Lamberto Duò
CIRC EV - Circular Factory for the Electrified Vehicles of the future	Prof. Marcello Colledani
La.S.T. - Laboratorio di Sicurezza dei Trasporti (Passive safety + Active safety)	Passive safety: Prof. Marco Anghileri, Prof. Carlo Astori, Andrea Milanese (administrative manager) Active safety: Mario Pennati (technical manager)

Tasks



WP LEADER: POLIMI

Activities – key outputs

Serie of workshops:

gathering needs and ideas from the research community;
mapping practises in the RIs management;
sharing data and resources among the facilities;
informing about EU opportunities for RIs;
exploring interest in creating synergies among research groups

- **Workshop “*EU Policies on Research Infrastructures*”** (hybrid mode, March 2023, Milan)
- **Workshop “*Managinig Ris*”** (hybrid mode, March 2023, Milan) – involving 14 Research Infrastructure managers from POLIMI, WUT, CHALMERS, UPV and NTNU;
- **Workshop “*Research infrastructures sustainability: managing facilities and attracting funding*”** (virtual, June 2023);
- **Workshop “Opening Up The Catalogue Of Enhanceria Research Infrastructures And Fostering The Creation Of A Community Of Enhance Infrastructures”** (virtual, June 2024);

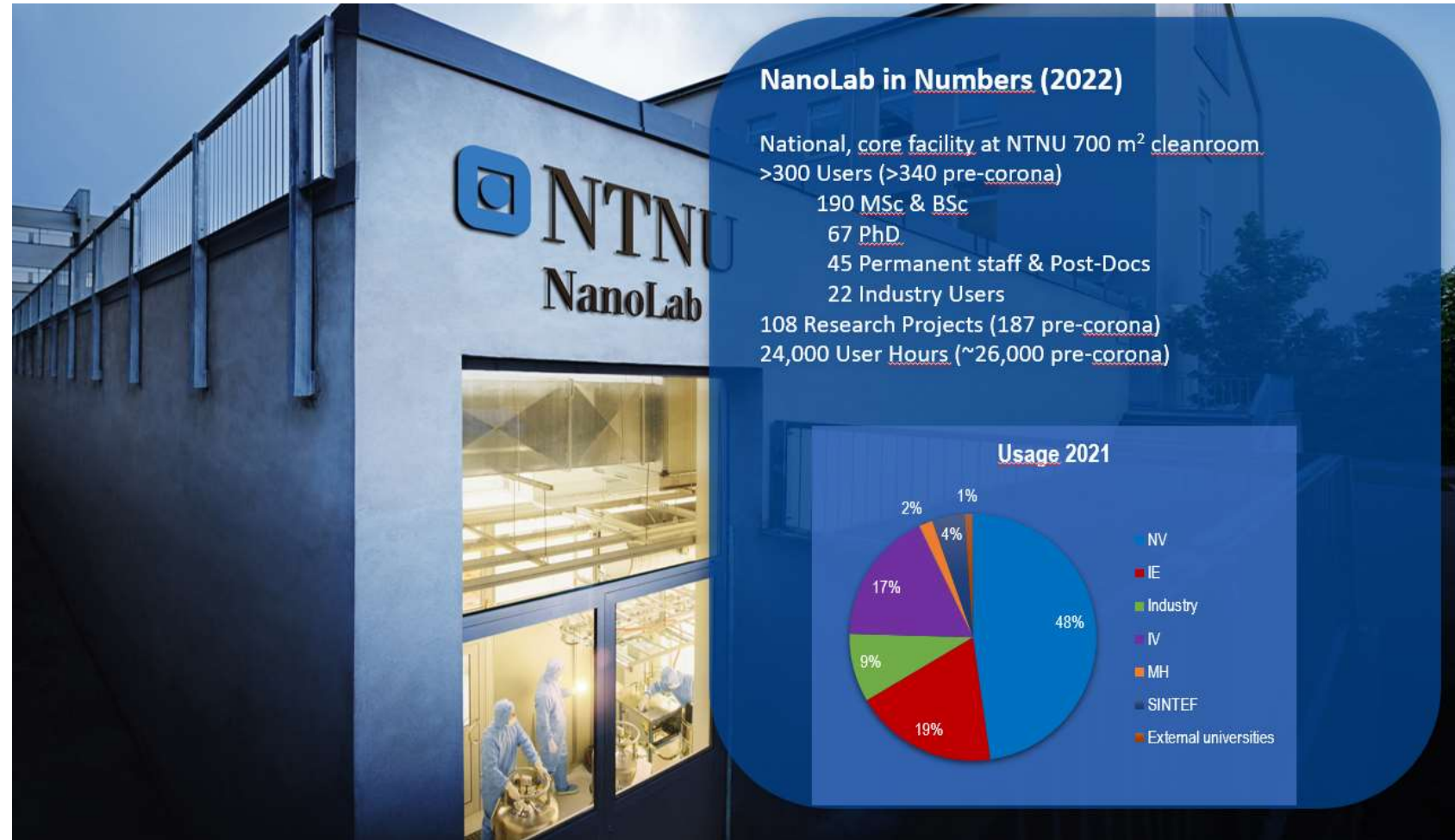
Designing of the catalogue: collect and showcase technical capacities and capabilities for internal and external users

Piloting Reconnaissance event: researchers were identified based on the scientific and application domains of infrastructures to be visited, invited to visit the laboratories and networking with them, sharing ideas, research projects or publications;

Drafting of the Guiding principles and Recommendations on sharing RIs in the Alliance (in progress)

1. Reconnaissance Events In Thromdheim

- ❖ NTNU Nanolab
- ❖ The “Energy Track
including:
 - ECCSEL Turbulent Combustion Lab
 - The Waterpower Lab
 - The Fluid Mechanics Lab and Wind Tunnel
 - NTNU Battery Lab



2. Reconnaissance Events in Milan

- ❖ [POLIMI Testing Lab for Materials](#), Research area: Construction Materials and Structural Engineering

LABORATORIO PROVE MATERIALI

LABORATORIO PROVE MATERIALI, STRUTTURE E COSTRUZIONI DEL POLITECNICO DI MILANO

[HOME](#) [CHI SIAMO](#) [SETTORI SPERIMENTALI](#) [ATTREZZATURE](#) [CERTIFICAZIONI CE](#)  

Diagnostica, monitoraggio e indagini sui materiali per il costruito e i beni culturali

Attività sperimentali e indagini diagnostiche in situ su edifici storici e strutture murarie, di tipo non distruttivo (ultrasuoniche, soniche, radar, termografiche, ...)

[VA SOTTO](#)

[SCOPRI](#)



Marcatura CE

La marcatura CE è obbligatoria per tutti i prodotti per i



Tariffario

Condizioni generali e tariffario per l'esecuzione di attività



Modulistica

Modulistica per la consegna del materiale presso il



Aircraft aeroelasticity



Airplane aerodynamics



Rotorcraft aerodynamics



Bridge aerodynamics & aeroelasticity



Buildings & roofs



Rail & road vehicles



Sails & marine



Pollution dispersion & environment



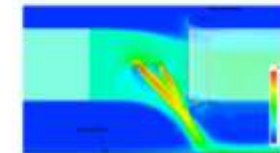
Wind energy



Sport aerodynamics



Cable aerodynamics & aeroelasticity



Numerical wind tunnel

- ❖ [POLIMI Wind Tunnel](#), Research areas

Deliverables

Deliverable no	Deliverable Title	Lead Beneficiary	Type	Due date (month)
D6.1	Report on best practices in managing RIs	WUT	Report	August 2023
D6.2	Catalogue of ENHANCE RIs	NTNU	Report	December 2023
D6.3	Recommendations on sharing RI resources within ENHANCE	POLIMI	Report	November 2024

Future pathways



Foster the utilization of the Platform of Enhance Research Infrastructures as a tangible mean to boost scientific excellence through research collaborations and training opportunities;

widen the scope of the RI platform, also including new upcoming facilities (eg. from TU delft, ETH, Gdansk);

Deeply analyze the uniqueness and similarities among Enhance RIs landscape;

identify pilot strategic areas (eg. *clean rooms, wind tunnels, testing materials lab*) to be supported

offer training opportunities;

provide travel grants for Post-docs, researchers and technical staff to promote and access to laboratories;)

Sustainability through long term funding



Focusing on FP10 and Erasmus+ opportunities ;



Seeking national funding ;



Exploiting opportunities from networks of the partner universities

Support to synergies across Alliance



Promoting **integration between research and education** through a transversal approach that can help improve cooperation and support handling of cross-cutting topics in a transdisciplinary manner;



Promoting a **long-term approach** that can help develop sustainable education and research links, important for us as universities of technology.