

# PITCHING SESSION



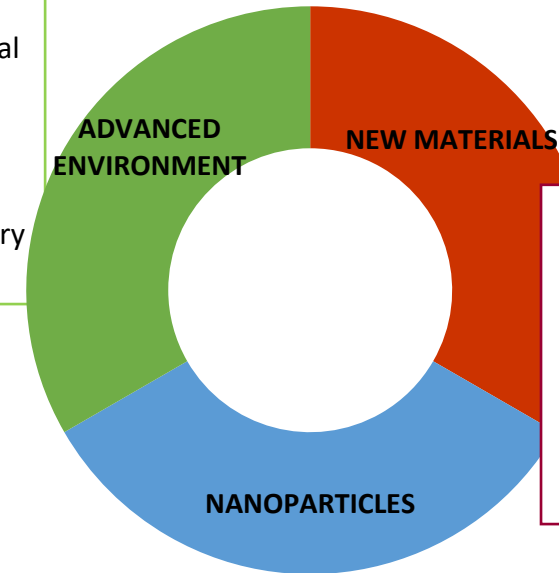
# LUREDERRA TECHNOLOGICAL CENTRE



- Wastewater Treatment
- Revalorisation of organic wastes
- Metal decontamination and metal recycling from wastes
- Nanoparticles applied to environment
- Sorbents for removal and recovery pollutants

L'Urederra Foundation, **non-profit private entity created in June 1999**, conducts and promotes research and technological development activities in the service of companies and economic operators, including the subsequent implementation of innovations developed in their own production facilities not only nationally but also internationally.

**Industrial vision:** Continuous development of marketable products and technologies quickly transferable and exploitable.



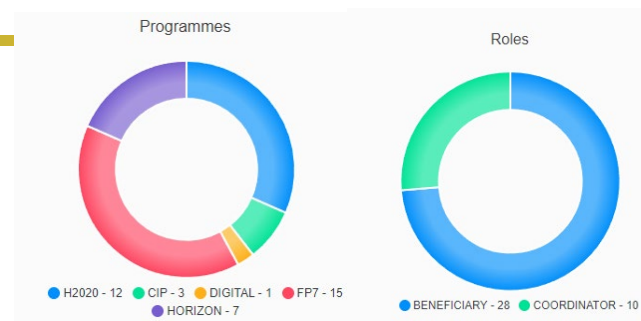
- Advanced materials development (functionalised)
- Plastic processing technologies.
- Plastics recycling
- Materials for construction with special properties

- Advanced nanoparticle production: simple and complex (mixed, doped, core-shell) nanooxides, phosphates and carbonates.
- Production of customised nanoparticle dispersions in different concentrations with high stability.
- Ready-to-use nanoproducts.
- Specific surface treatments
- Synthesis of specific functional compounds.
- Synthesis and modification of nanoclays.

# LUREDERRA TECHNOLOGICAL CENTRE



## Horizon Europe



SUSAAN “SUStainable Antimicrobial and Antiviral Nanocoating” HORIZON-CL4-2021-101057988 **COORDINATOR**



FREE4LIB “Feasible recovery of critical raw materials through a new circular ecosystem for a Li-ion battery cross-value chain in Europe” HORIZON-CL5-2021-101069890



Platform-ZERO “Customizable AI-based in-line process monitoring platform for achieving zero-defect manufacturing in the PV industry” HORIZON-CL4-2021-101058459



SUNRISE “Safe and sUstainable by design: integRated approaches for Impact aSsessment of advanced matErials” HORIZON-CL4-2023-RESILIENCE-101137324



SOLINDARITY “SOLar-driven INDustrial power And heat upgRaded with hIgh-temperature heaT pumps for enhanced integrated process efficiencY” HORIZON-CL5-2023-D3-101136148

BEETHOVEN “SUBSTITUTION OF RARE-EARTHS FOR ADVANCED NOVEL MAGNETS IN ENERGY AND TRANSPORT APPLICATIONS” HORIZON-CL4-2023-RESILIENCE-101129912



NEOCYCLE “UPCYCLING OF NdFeB MAGNETS IN THE EU FOR GREEN APPLICATIONS (NEO-CYCLE)” HORIZON-CL4-2023-TWIN-TRANSITION-01-101138058



# LUREDERRA in HE CLUSTERS

## 4. DIGITAL, INDUSTRY & SPACE

- ✓ Health
- ✓ Cultural Heritage
- ✓ Manufacturing Industry
- ✓ Raw Materials
- ✓ SSbD alternatives
- ✓ Digital Emerging

**Tailored synthesis of nanoparticles and nanodispersions**  
**FSP production technology.**  
**Dispersion technology / chemical functionalisation:** ultrasonic forces, milling deagglomeration techniques.  
**Thermal treatments.**



**Nanosurface treatment / nanoenable materials / coatings:** Different properties on several substrate: hydrophobicity, oleophobicity, anti-stick, easy to clean, antifouling, anticorrosion, antibacterial....

scalability

## 5. CLIMATE, ENERGY & MOBILITY

- ✓ Energy storage
- ✓ Renewable Energies (PV, Marine, CSP)
- ✓ Nanocatalysts
- ✓ Highly Energy Efficiency Building

## 6. BIOECONOMY NATURAL RESOURCES AND ENVIRONMENT

- ✓ Zeropollution
- ✓ Bioeconomy
- ✓ Circular Economy
- ✓ Circ-Bio

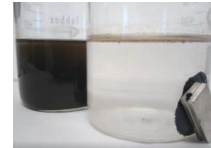
Easy to apply  
Real testing



### Waste Water Treatment

**Innovative Materials for pollutants removal and WWT:** Elastomeric materials, novel absorbents and nanoresins ...

**Facilities for testing:** Modular WWTPlant, filtering modules...



### Recycling and wastes valorization

**Materials and metal recycling from WEEEs:** Leaching, solvent extraction and precipitation technologies for recovery of CRMs.

**Extraction of added value chemicals from agro industrial-wastes:** milling, extraction, concentration and purification of bioactive compounds



### Plastics processing, functionalization and recycling:

**Addition of plastics and paints:** functionalization and modification.

**Plastics processing capabilities:** rollers, hot and cold plates, extrusion.

**Plastics recycling:** recycling solutions for EoL plastics (PVB recycling line)

Pilot testing



# LUREDERRA TECHNOLOGICAL CENTRE

**NEXUS**  
WHERE NAVARRA  
MEETS EUROPE

**ADIttech**  
COORDINADOR SINAI  
Sistema Navarro de I+D+i



**Marta Mateo**  
[marta.mateo@lurederra.es](mailto:marta.mateo@lurederra.es)

**Angélica Pérez**  
[angelica.perez@lurederra.es](mailto:angelica.perez@lurederra.es)

**Aitor Larrea**  
[aitor.Larrea@lurederra.es](mailto:aitor.Larrea@lurederra.es)

## PARTNER

Since V Framework Programme

&

## COORDINATOR

Since VI Framework Programme

Currently COO: 1HE

**Cluster 4: Digital, Industry and Space**      **CL4-INDUSTRY-2026**      **March/April 2026**

HORIZON-CL4-2026-02-MATERIALS-PRODUCTION-21: Development of safe and sustainable alternatives to substances of concern (IA)

HORIZON-CL4-2026-01-MATERIALS-PRODUCTION-12: Technologies for innovative extraction of critical raw materials (RIA)

**Cluster 5: Climate, Energy and Mobility**      **Deadline: 20/01/2026**

HORIZON-CL5-2026-01-D2-04: Integrating advanced material, cell design and manufacturing development for high performance batteries aimed at mobility (RIA)

**Cluster 5: Climate, Energy and Mobility**      **Deadline: 31/03/2026**

HORIZON-CL5-2026-03-D2-02: Development of direct recycling processes (BAT4EUPartnership)

[www.lurederra.es](http://www.lurederra.es)

Tfno.: +34 948 64 03 18

Fax: +34 948 64 03 19

Área Industrial "Perguita", Calle A, nº 1

31210 - Los Arcos (Navarra-España)