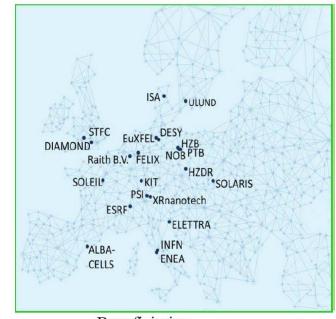


LEAPS-INNOV Overall Objectives

- Pilot actions towards the implementation of the LEAPS Technology Roadmap
- Explore open innovation strategies for partnership with industry in development of cutting-edge technologies, including targeted actions to
 - improve cooperation with industry as collaborators in hightechnology development at an early stage
 - better enable European industry to supply products and technologies to the LEAPS community, photon facilities worldwide and the general market
- Enhance industrial use of photon sources, in particular SMEs
- Pilot activities to engage users from academia and industry of large European research initiatives in the cocreation of innovative scientific instruments, particularly having relevance towards solving global challenges.



Beneficiaries



European Research Infrastructures -

DESY

Pathway to Improved Resilience through Remote and Digital Access

A. Thies

eRImote Workshop II

Remote Operations

24 & 25 October 2022





















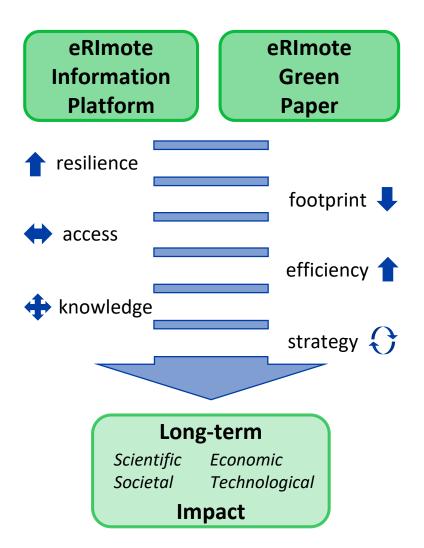


Current activities and Outcomes – Remote access landscape analysis

- Review on available practices concerning various remote access service categories
- Information gathering in workshops & expert groups
- Data analysis and set up of eRImote Information Platform

Workshop I: Training Virtual 21 & 22 September 2022 Workshop II: Remote operations Virtual 24 & 25 October 2022 Workshop III: Governance In-person Spring 2023 Expert Groups I-V on various topics Tbc







ReMade@ARI RECYCLABLE MATERIALS DEVELOPMENT @ANALYTICAL RESEARCH INFRASTRUCTURES



Facts & Figures

- 01 Sept. 2022 31 Aug. 2026
- 44 Beneficiaries plus 3 Associated
 Partners
 - ARIE

 Analytical Research
 Infrastructures
 in Europe

 ARIE

 Analytical Research
 Infrastructures
 in Europe

 ARIE

 Analytical Research
 Infrastructures
 in Europe

- Coordination HZDR
- Project volume 13.7 MEUR
- Web site: remade-project.eu/

and

University of Bonn (Socio-economic impact)

Danish Technological Institute (Bridging to industry)

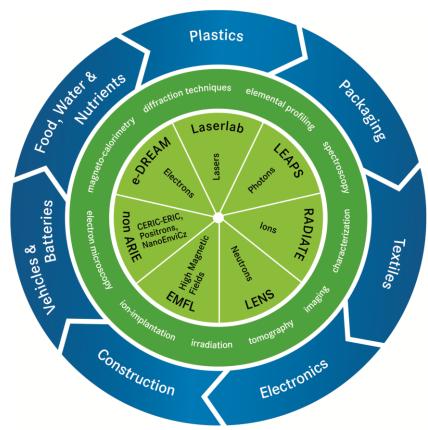


Materials development for a Circular Economy



Our offer

- 50,000 hours of TNA to > 50 world-leading analytical facilities
- **Expert assistance** for experiment planning, materials characterisation, and data analysis
- Coordinating across networks to combine complementary techniques
- Access schemes tailor-made to SME and industry needs
- Grants to provide industry with technical expertise. Single entry point for access to all partner RIs



Target areas of the European Union's Circular Economy Action Plan

Electronics and ICT; Batteries and Vehicles; Packaging; Plastics; Textiles; Construction and Buildings; Food, Water and Nutrients.

LEAPS preparing for HE Workprogram 2023/24

 HE INFRA-SERV-2023-01-01: RI services for innovative applications of nanoscience and nanotechnology

Coordination: DESY

 HE INFRA-EOSC-2023-01-01: Science cluster approach to ensure the uptake of EOSC by RI and research communities
 LEAPS participation via one facility (WG3)

 HE-INFRA-SERV-2023-01-03: RI services advancing frontier knowledge proposal with ESUO and LEAPS participation





- Analysis of the goals of the European Partnerships
- Selection of those with the biggest common intersest
- Starting the communication

- Involvement of LEAPS-INNOV WP9
 - Contacting Scientist
 - Preparing a strategy
 - Workshops Joint Proposal



Further Steps

Preparation for the call Infra-2024- TECH-01-01

Digital Leaps Initiative: Support to the three pilot projects

Extension of the Phase 1

Legal Entity Work in progress to establish it during 2023

LEAPS Biannual Conference: LEAPS MEETS LIFE SCIENCE

Topical Issue In EPJ: Facility status and strategy: Some contributions still open (!)



LEAPS League of European Accelerator-based Photon Sources

"The strength of LEAPS lies in its staff and users, hailing from all European countries, beyond those which host the facilities. Member States and facilities should optimize the funding instruments under Horizon Europe for the benefit of researchers and innovators across all Europe"



eRImote Data Sheet



 Project number: 101057557

• Beneficiaries/Partners: 8 Beneficiaries from 4 ESFRI RI domains

2 Affiliated Entities / 2 Associated Partners

Coordinator: DESY and Instruct-ERIC

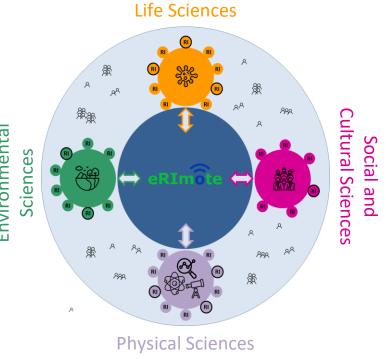
• EC grant amount: 1,429,877.00 €

CH: 25,708.33 €/UK: 70,119.50 € Additional funding:

Project duration: 30 months

Start date: 1 June 2022

30 November 2024 End date:





Instruments and People



Knowledge & Support Hub



- → Support choice of techniques
- Support experiments
- → Support data analysis
- → Follow-up with expertise



Smart Science Cluster 18 Junior scientists

Project Implementation



Smart research design



Hands-on research support



Competent analysis provision

Network	Main host	Specialisation	
LEAPS	ESRF	X-ray diffraction	
LEAPS	ESRF	X-ray tomograhy	
LEAPS	DESY	X-ray imaging	
LEAPS	MAX IV	SAXS/WAXS	
LEAPS	PSI	In-situ / operando	
RADIATE	HZDR	Ion implantation	
RADIATE	IMEC	Elemental profiling	
RADIATE	UAM	PIXE/PIGE, microbeams	
eDREAM	FZJ	Imaging	
eDREAM	ICN2	Diffraction	
eDREAM	CNR-IOM	FIB	
LENS	ILL	Neutron techniques	
LENS	ISIS	Neutron techniques	
LENS	PSI	Neutron techniques	
LaserLab	Coimbra Laser Lab	Photo chemistry	
LaserLab	HiLASE	Laser micro/nanoprocessing	
EMFL	HZDR	Magnetocaloric measurements	
pELBE	HZDR	Positron annihilation lifetime spectroscopy	

Links to European Partnerships

PILLAR II - Global challenges & European industrial competitiveness PI

PILLAR III - Innovative Europe

Cluster 1: Health	Cluster 4: Digital, industry and space	Cluster 5: Climate, energy and mobility	Cluster 6: Food, bioeconomy, natural resources, agriculture and environment	EIT: The European Institute of Innovation and Technology	European innovation ecosystems
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe	EIT InnoEnergy	Innovative SMEs
Global Health EDCTP3	Smart Networks and Services	Clean Aviation	Biodiversa+	Climate-KIC	
Transformation of Health Care Systems	High Performance Computing	Single European Sky ATM Research 3	Blue Economy	EIT Digital	
Risk Assessment of Chemicals	European Metrology (Art. 185)	Europe's Rail	Water4All	EIT Food	
ERA for Health	Al-Data-Robotics	Connected, Cooperative and Automated Mobility	Animal Health and Welfare	EIT Health	
Rare Diseases	Photonics	Batteries	Accelerating Farming Systems Transitions	EIT Raw materials	
One-Health Antimicrobial Resistance	Made in Europe	Zero-emission Waterborne Transport	Agriculture of data	EIT Manufacturing	
Personalised Medicine	Clean Steel – Low- Carbon Steelmaking	Zero-emission Road Transport	Safe and Sustainable Food Systems	EIT Urban Mobility	
Pandemic Preparedness	Processes4Planet	Built4People		Cultural and Creative Sectors and Industries	
	Globally Competitive Space Systems	Clean Energy Transition		CROSS-PILLARS II and III	
Driving Urban Transitions				European Open Science Cloud	

- Institutionalised partnerships (Art 185/7, EIT KICs)
- Co-programmed
- Co-funded
- ☐ Not covered in the BMR 2022 due to a later start date

