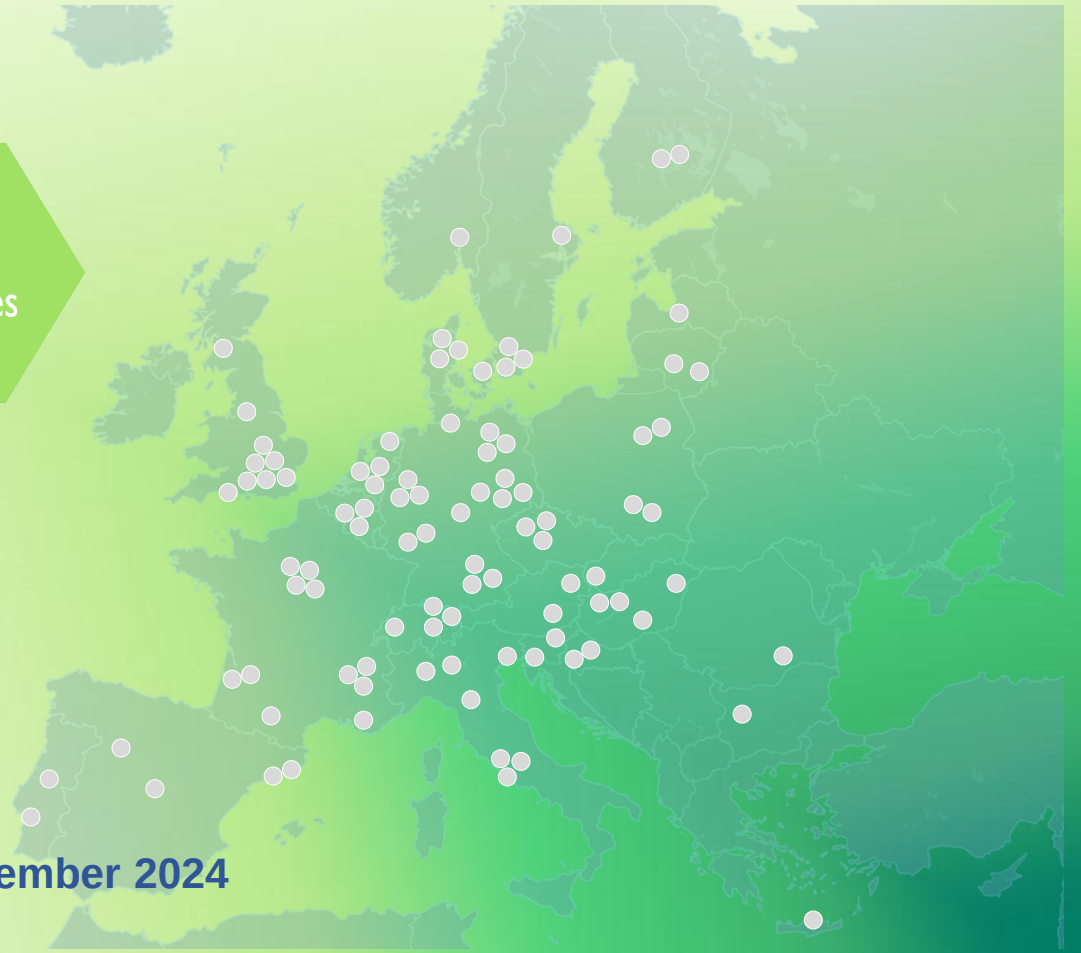
REcyclable MAterials DEvelopment at Analytical Research Infrastructures

Are you motivated to develop materials for a circular economy?
Do you have a brilliant scientific or industrial idea?
Are you faced with a specific challenge in your circular materials research?

'Tailor-made Access Routes for Advancing Materials Development for a Circular Economy'



RICH Europe Seminar – 26 November 2024

Presented by Dr. Lakshmi Bhaskaran, ReMade@ARI Project Manager, email: l.bhaskaran@hzdr.de

ReMade@ARI – *Who are we?* (for more info click here)

- A consortium of **47 partners across 17 European countries**
- **Project coordinators:** Helmholtz-Zentrum Dresden-Rossendorf (**HZDR**), Germany
- At the core of the consortium : **ARIE facilities** from **six** networks
  - High **magnetic** field laboratories – European Magnetic Field Laboratory (**EMFL**)
  - **Electron** microscopes – **e-DREAM**
  - **Laser** light sources – **Laserlab-Europe**
  - Accelerator-based light sources – League of Accelerator-based **Photon** Sources (**LEAPS**)
  - Neutron sources – League of Advanced European **Neutron** Sources (**LENS**)
  - **Ion** beams – **RADIATE**
- Along with **non-ARIE** Network partners: **CERIC-ERIC**, **NanoEnviCz** and the mono-energetic **positron** sources at the **ELBE** Centre for High-power Radiation Sources
- As well as the **University of Bonn** and the **Danish Technology Institute**.

*A project funded by the European Union as part of the **Horizon Europe** call **HORIZON-INFRA-2021-SERV-01** and co-funded by **UK Research and Innovation** (UKRI) and by the **Swiss State Secretariat for Education, Research and Innovation** (SERI).*

Presented by Dr. Lakshmi Bhaskaran, ReMade@ARI Project Manager, email: l.bhaskaran@hzdr.de

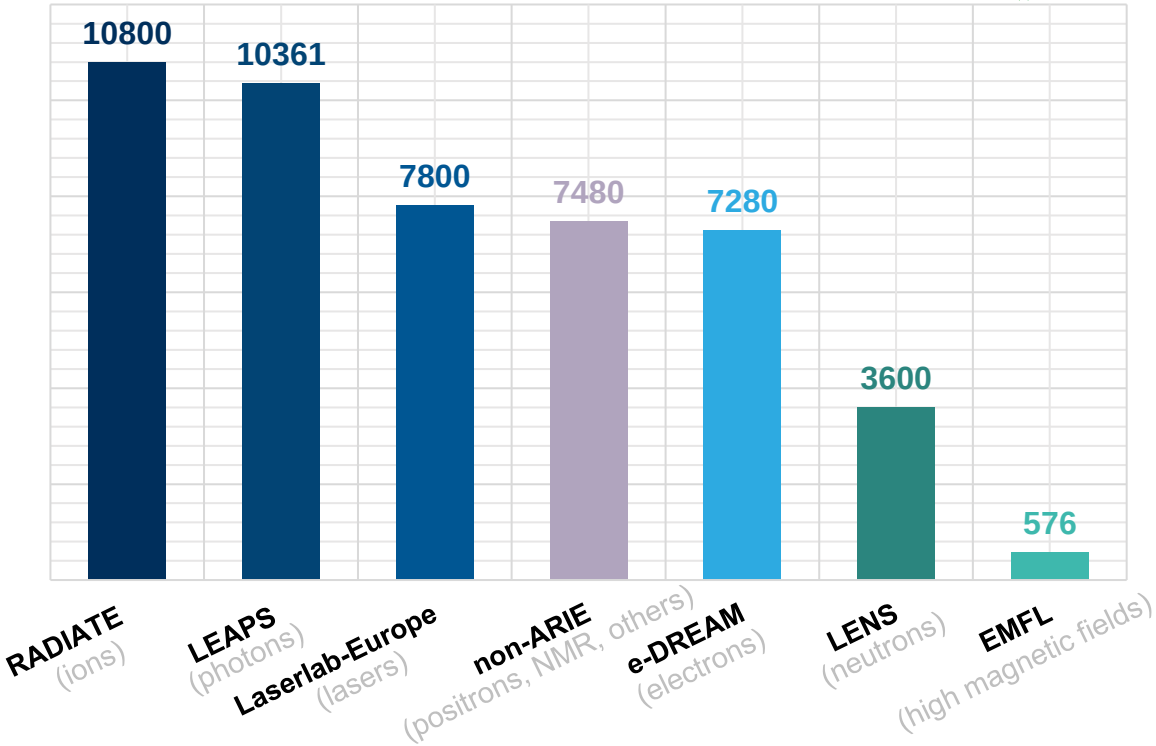
ReMade@ARI – *What we offer?* (for more info click here)

Our Technical Offer:

- ✓ access to **more than 50 RIs** across Europe (both TNA and VA)
- ✓ **50,000 hours of TNA**
- ✓ unprecedented portfolio of **20+ techniques**
- ✓ **3-tailor-made** access routes for scientists from **industry and academia**
- ✓ **single point entry** for more than one technique per proposal

Catalog of Techniques

Total Access Hours



ReMade@ARI KPI's

- ❑ 50,000 TNA hours
- ❑ 500 User Projects
- ❑ 1000 Users
- ❑ 35 SME projects
- ❑ 10 Industry projects

Presented by Dr. Lakshmi Bhaskaran, ReMade@ARI Project Manager, email: l.bhaskaran@hzdr.de

ReMade@ARI – *What we offer?* (for more info click here)

Our Science Support Offer:

- ✓ a project with a **heart of scientists**
- ✓ over **180 senior researchers** offer advice and expertise to the best combination of techniques
- ✓ **18 junior scientists** provide support along the whole value chain of their projects

Junior Scientists

Expertise in *Electrons*

Junior Scientists

Expertise in *Ions / High Magnetic Fields / Positrons*

Expertise in *X-rays*

Expertise in *Lasers*

Expertise in *Neutrons*

+ over 180 senior researchers !!

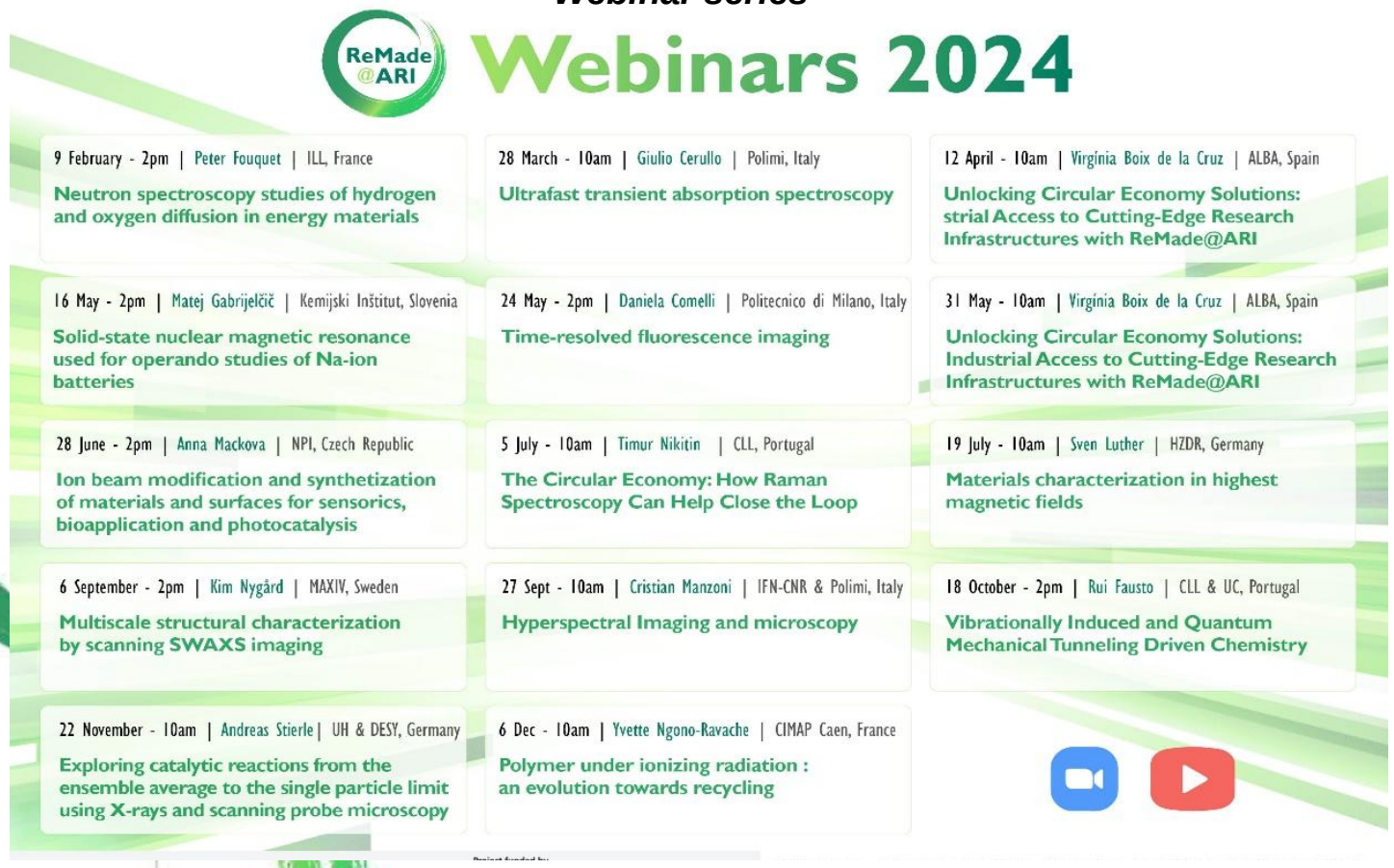
Presented by Dr. Lakshmi Bhaskaran, ReMade@ARI Project Manager, email: l.bhaskaran@hzdr.de

ReMade@ARI – *What we offer?* (for more info click here)

Our Education and Training Offer:

- ✓ available for **existing and potential RI users**
- ✓ training of **diverse techniques for material characterization**
- ✓ **empower** our user community
- ✓ goal to advance implementation of **Circular Economy practices**

Webinar series



Workshop series

- ➢ Zooming into Biobased Materials - Workshop on advanced **X-ray techniques** for studying biobased materials for circular economy at Lund, Sweden in **September 2024**.
- ➢ Energy materials in circular economy meet **X-rays and Neutrons** at Grenoble, France in **November 2024.**
- ➢ Application of ReMade@ARI **characterisation methods** to recyclable materials at Prague, Czech in **May 2025**.
- ➢ **Laser Spectroscopy and Photonics** for Circular Economy: Advancing Material Research and Sustainable Innovation at Heraklion, Greece in **June 2025.**
- ➢ ESRF **Industry** Workshop at Grenoble, France in **June 2025.**
- ➢ **Imaging/tomography** workshop at Grenoble, France in **October 2025.**

Presented by Dr. Lakshmi Bhaskaran, ReMade@ARI Project Manager, email: l.bhaskaran@hzdr.de

ReMade@ARI – Access Routes to Analytical Research Infrastructures (ARI)

For Academic Research

- **ReMade-TNA:** Coordinated, easy and supported access for academic users

For Industry Research

- **ReMade-SME:** Coordinated, easy and supported access for SME users

- **ReMade-IND:** Coordinated, easy and supported joint access for industry and knowledge providers

Presented by Dr. Lakshmi Bhaskaran, ReMade@ARI Project Manager, email: l.bhaskaran@hzdr.de

ReMade – TNA “Mission-based trans-national access” (for more info click here)

This is the next generation of the very traditional trans-national access scheme!

TARGET GROUP?

Researchers from academia and industry with materials R&D projects advancing the circular economy

BENEFITS?

- easy, free and coordinated access to RIs of the ReMade@ARI consortium
- accommodation and travel expenses supported (up to 2 researchers)
- submit a pre-proposal (optional) or a full proposal
- combine two (or more) techniques
- Scientific advices from the design of the experiments to data handling and analysis
- Obligation to report / publish results in open access jounals

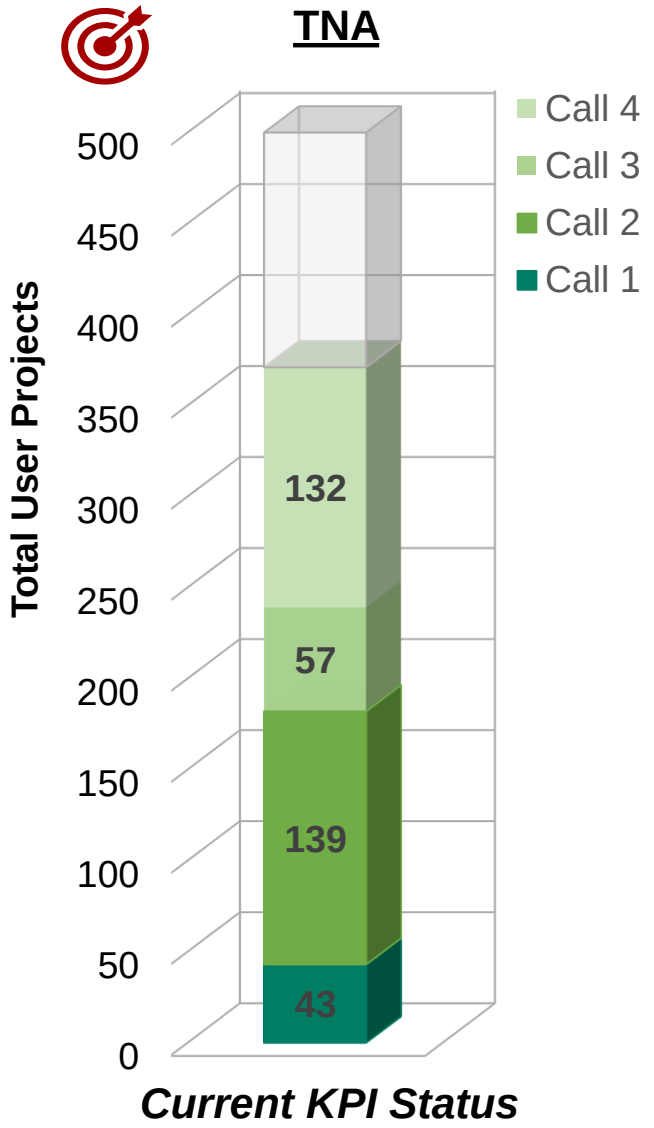
INTERESTED?

Pre-proposals: continuously open except the last 2 weeks before a call deadline

Full proposals: ONLY 2 calls remaining, apply by March 2025 or September 2025

QUESTIONS?

Contact us: info@remade-project.eu



Presented by Dr. Lakshmi Bhaskaran, ReMade@ARI Project Manager, email: l.bhaskaran@hzdr.de

ReMade – SME “SME transnational access for Circular Economy” (for more info click here)

A coordinated access for SMEs to ARI facilities to foster innovation for the circular economy!

TARGET GROUP?

Small and Medium Companies working on circular economy projects

BENEFITS?

- “Full service” access to Advanced Analytical Research Infrastructures:
- No deadlines - continuous application and evaluation process
- TNA requirement
- Fast and simple measurements (at least one technique, but more can be offered)
- Including data analysis
- Confidential results – no obligation to publish

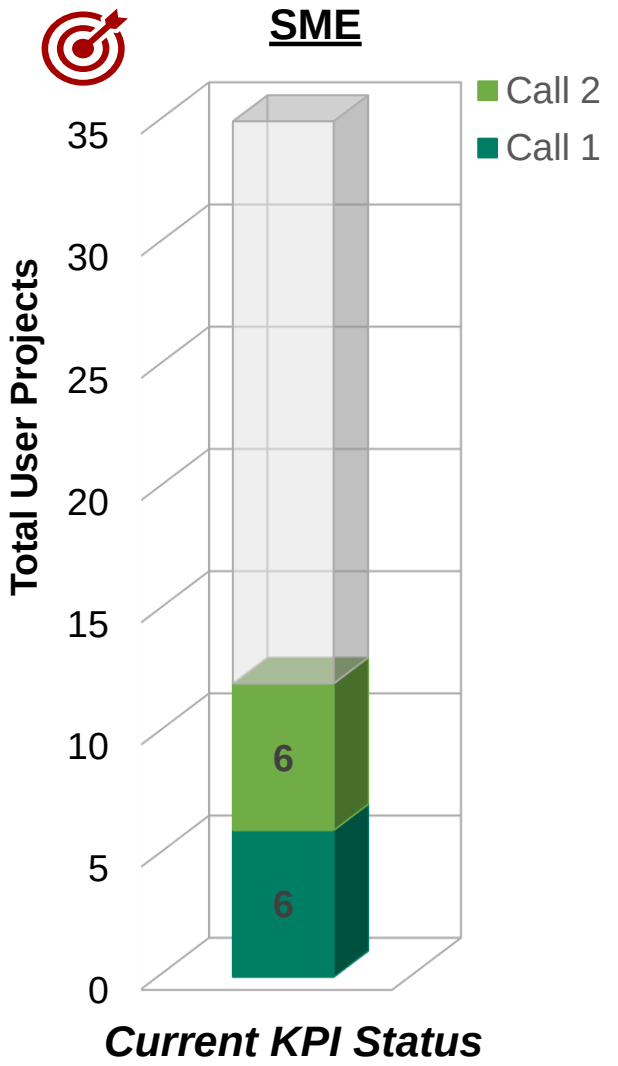
INTERESTED?

2nd Call: Continuous applications until 16 December 2024

3rd Call: Continuous applications from 3 February 25 until 15 December 2026

QUESTIONS?

Contact us: industry@remade-project.eu



Presented by Dr. Lakshmi Bhaskaran, ReMade@ARI Project Manager, email: l.bhaskaran@hzdr.de

ReMade – IND "Pioneer Innovation Pilots" (for more info click here)

!SUCCESS!

Joint access for industries in partnership with knowledge providers to turn circular materials challenges into innovative solutions!

TARGET GROUP?

Companies in partnership with a knowledge provider (academic partners, RTOs, CROs, specialized service companies, etc.) working on circular economy projects at Advanced Research Infrastructures. **IND**

BENEFITS?

- **30,000€** grant for customization of access, e.g.:
  - Expert services by the knowledge provider
  - Consumables, sample environment
- Proprietary access against payment or ReMade-TNA with requirement for TNA and publication of results

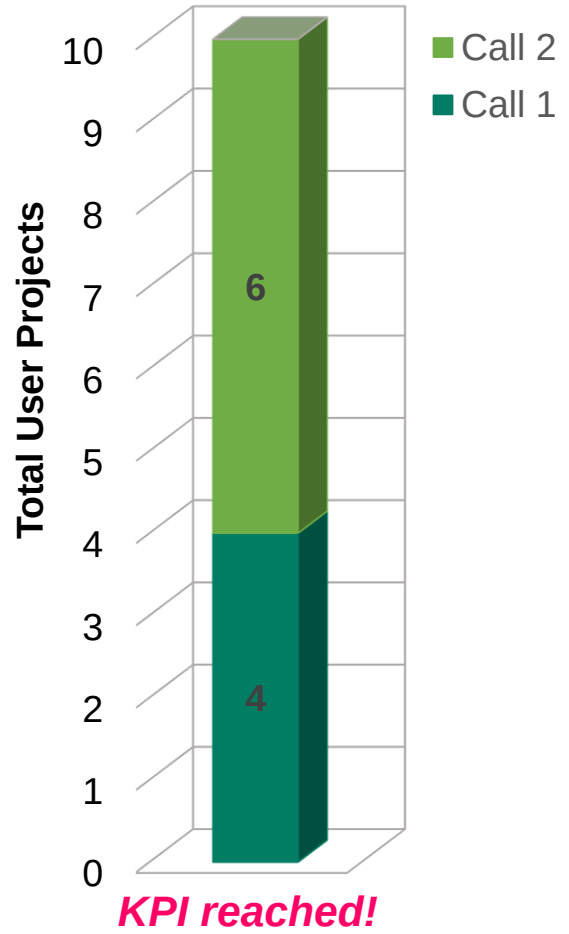
INTERESTED?

Final call closed August 2024. No future calls.

An OUTSTANDING SUCCESS with 10 proposals granted in total!

QUESTIONS?

Contact us: industry@remade-project.eu



KPI reached!

Presented by Dr. Lakshmi Bhaskaran, ReMade@ARI Project Manager, email: l.bhaskaran@hzdr.de

ReMade@ARI – in a nutshell

A hub for recyclable materials development for Circular Economy!

- 4 years (until August 2026)
- 47 consortium partners coordinated by HZDR, Germany
- > 50 analytical research infrastructures
- 50,000 hours of TNA
- a project with a heart of scientists
- 18 young researches and over 180 senior experts supporting users along the whole value chain of their projects
- possibility to submit “pre-proposals”
- a single entry point for 20+ techniques
- 3 target group-specific access routes to the facilities: ReMade-TNA, ReMade-SME, ReMade-IND
- over 15 MEUR (13.7 MEUR from the EU and 1.8 M EUR from SERI (CH) and UKRI (UK)) to accelerate the transition to a Circular Economy

You bring in the challenge,

we provide the measurements, the technical expertise and invaluable scientific support.

Check out here!

Apply to ReMade@ARI!

Presented by Dr. Lakshmi Bhaskaran, ReMade@ARI Project Manager, email: l.bhaskaran@hzdr.de

Thank you for your attention!

remade-project.eu

Funded by the European Union

UK Research and Innovation

Project funded by

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER
State Secretariat for Education, Research and Innovation SERI

Funded by the European Union as part of the Horizon Europe call HORIZON-INFRA-2021-SERV-01 under grant agreement number 101058414 and co-funded by UK Research and Innovation (UKRI) under the UK government's Horizon Europe funding guarantee (grant number 10039728) and by the Swiss State Secretariat for Education, Research and Innovation (SERI) under contract number 22.00187.
Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the UK Science and Technology Facilities Council or the Swiss State Secretariat for Education, Research and Innovation (SERI). Neither the European Union nor the granting authorities can be held responsible for them.