

GLA CER HUB

Glass-ceramic innovation ecosystem for implementation of
new research direction in applications

GLA
CER
HUB

GLACERHUB

AT A GLANCE

2023 – 2027

PROJECT DURATION

48 months



Project concept
dates back to **IV Q 2021**

€4.99 M

EU CONTRIBUTION

€4,994,751.25

CZ × SK

REGIONAL ECOSYSTEM

Two countries.
Stronger together.

**EXCELLENCE
HUBS**

HORIZON EUROPE

HORIZON-WIDERA-2022-
ACCESS-04-01

GLASS + CERAMICS

Connecting research, industry and regional innovation
to bring new research directions into applications.

What is GlaCerHub Project About?

Why does society fund research institutions?



tecnal:a
MEMBER OF BASQUE RESEARCH
& TECHNOLOGY ALLIANCE

 **Fraunhofer**

Leading research institutions as inspiration for building GlaCerHub in the Czech-Slovak region.

FunGlass Ecosystem

RESEARCH
GENERATES
PROSPERITY

Building Blocks



Core Activities



Basic / fundamental research



Training and applied research



International networking

STARTING POINT | RESEARCH-TO-MARKET PATHWAY

**STRONG**

SCIENTIFIC OUTPUT

WEAK

MARKET & REGIONAL IMPACT

Main challenges during the proposal preparation



Time and coordination of quadruple-helix consortium.



How to convert project story into **implementation structures**.



Impact: measurable and verifiable, ambitious yet realistic.

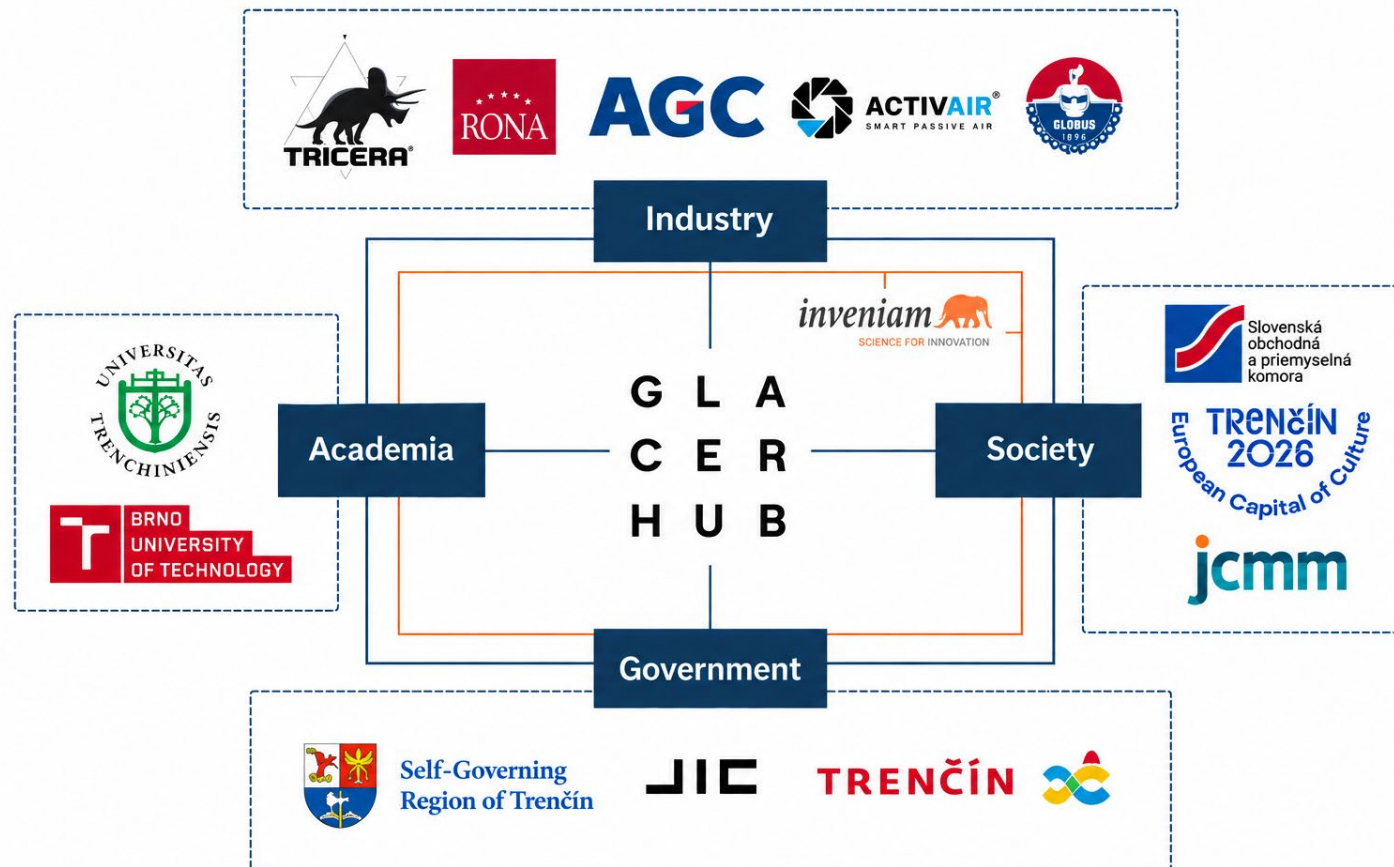


Space constraints (final phase).



New and complex call: first edition, no previous experience/inspiration.

Consortium **Quadruple Helix**



GLASS-CERAMIC INNOVATION ECOSYSTEM
FOR IMPLEMENTATION OF NEW RESEARCH DIRECTIONS IN APPLICATIONS

Participant organisation name

ACADEMIA

TNUAD – FunGlass
BUT – CEITEC

INDUSTRY

Inveniam Group
RONA, a.s.
Activair s.r.o.
Best – Business, a.s.
AGC Trenčín, s. r. o.
TriCera s.r.o.

SOCIETY

Slovak Chamber of Commerce
JCMM, Z.S.P.O.
Trenčín Creative Institute

GOVERNMENT

JIC
City of Trenčín
Trenčín self-governing region

GLA
CER
HUB

GlaCerHub Solution

Taking advantage of the historical and present-day competitive advantage in the **glass and ceramics sectors** to support a **place-based innovation ecosystem** in the border region between South Moravia, Czechia and Trenčín, Slovakia.



COMMON R&I STRATEGY

Development of a **common R&I strategy** to strengthen the competitiveness of the glass and ceramics sectors.



TRAINING

Results-oriented **training** of future innovators to build skills for sustainable growth.



TECHNOLOGY TRANSFER

Targeted activities to support **technology transfer** from research to practice.



INNOVATION NETWORKING

Intense innovation focused **networking (local Chapters)** to connect academia, industry, society and government.

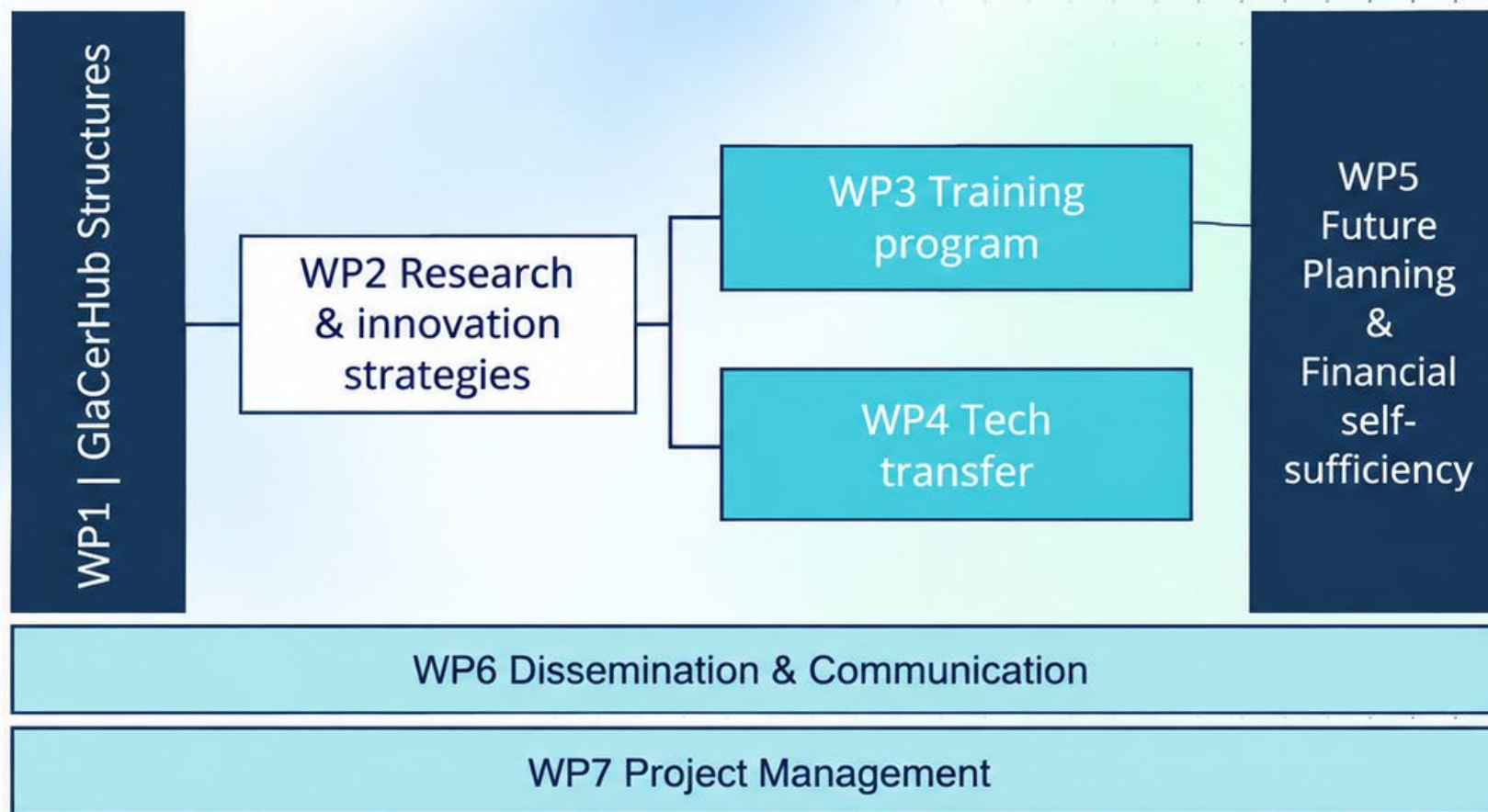
GlaCerHub Objectives

The main objective of GlaCerHub is to create an excellent and sustainable **place-based innovation ecosystem** in Slovakia and Czechia, focused on advanced glass and ceramics – two relevant domains of cutting-edge science and innovation.

SPECIFIC OBJECTIVES

- 01 | GlaCerHub's formal structures established
- 02 | R&I Strategic Vision defined
- 03 | Action plans for attracting, developing, and retaining R&I actors and talent
- 04 | Improved knowledge transfer and technology transfer capacity
- 05 | Future sustainability of GlaCerHub assured
- 06 | Engaged citizens & increased visibility of GlaCerHub's importance to the region
- 07 | Ensure project is executed effectively and reporting requirements are met

Work Packages



Impact – Training

Building skills for innovation and long-term impact.



TRAINING PROGRAM

- **Technical** competence
- **Innovation leadership** – IPR, entrepreneurship, financial literacy
- **Complementary skills** – LCA, project writing, project management



PHD COOPERATION

- **Cotutelle** cooperation
- **Industry codesigned** / co-supervised PhD topics

Impact – Tech Transfer

From people and processes to a stronger innovation portfolio.



PEOPLE

**New positions
created**

- Innovation Chair
- Business Development Officer



PROCESSES

- IPR screening, filing and promotion.
- Industry collaboration.



TECHNOLOGICAL ASSETS PORTFOLIO

17
IP cases

15	patents
2	utility models
2	granted
9	filed
6	in process

- Portfolio and infrastructure catalogue created and promoted.

Impact – Networking

Building connections for collaboration and long-term impact:



LOCAL CHAPTERS

Advisory and networking platform

2

Local Chapters
Slovakia + Czechia



MELTING DAYS

Quadruple-helix networking platform

2x / year



CENTRAL EUROPEAN ADVANCED MATERIALS CLUSTER

- Newly created legacy structure
- Platform for joint initiatives and knowledge exchange in advanced materials.



INFRASTRUCTURE CONSORTIUM

- Aim to create a Platform for Advanced Materials – a distributed national research infrastructure linking Slovak centres of excellence.
- Objective: inclusion in the Slovak ESFRI Roadmap and ultimately ESFRI.

Impact - Common R&I Strategy

Collaboration. Infrastructure. Greater impact.



JOINT R&I STRATEGY

- Long-term **R&I strategy**
- Aligned **infrastructure development plan**



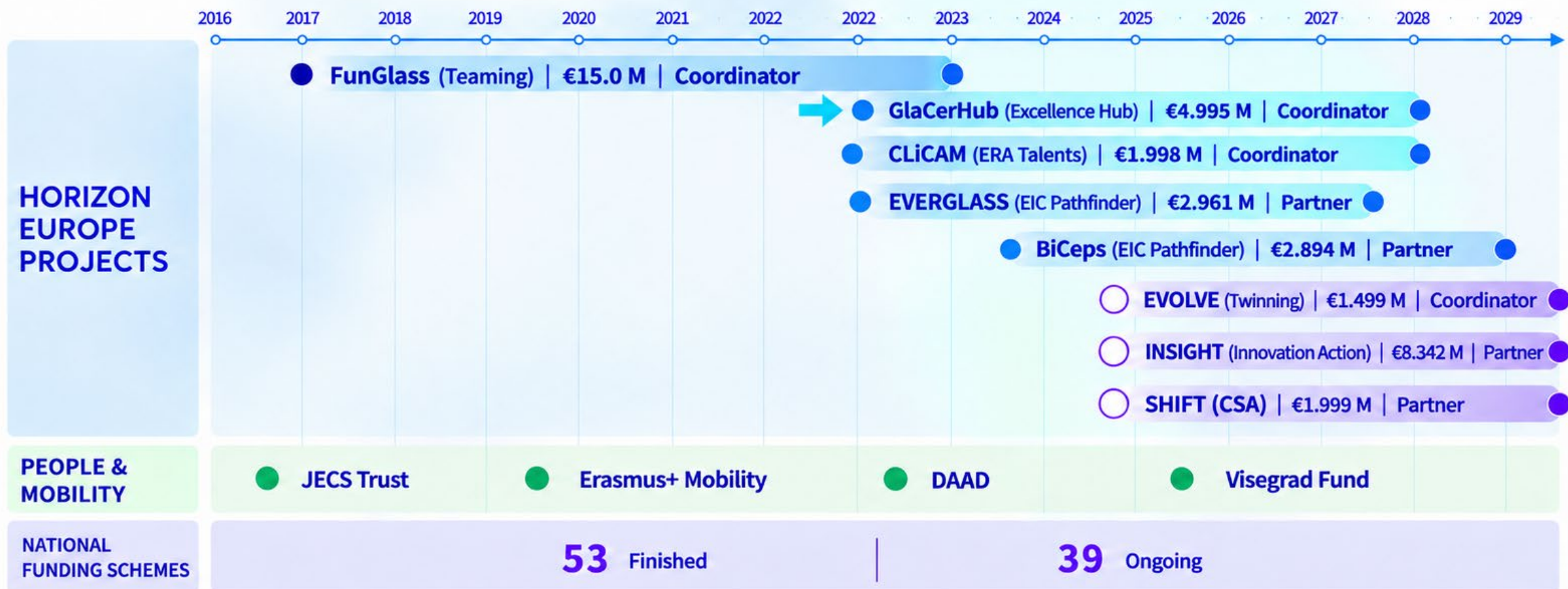
CHANGE IN MINDSET AT ORGANISATIONAL LEVEL

50+

European research projects
submitted since 2023

Project Portfolio at a Glance

From building excellence to creating long-term impact.



THANK
YOU

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Funded by
the European Union

G L A
C E R
H U B