

G L A
C E R
H U B

Peter Hošťák – FunGlass TnUAD
Head of Administration and European Projects Office

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

G L A
C E R
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university embedded CoE
with quasi faculty status

- **Basic/fundamental research**
- **Training – doctoral program**
(chemical engineering and technologies - inorganic technology and non-metallic materials)
- **Applied research and international networking**



FunGlass

Centre for functional and surface functionalized glass

**FunGlass
Scientific
Board**

Prof. Dušan Galusek
Director



Alexander Dubček
University of Trenčín
Slovakia



Prof. Alicia Durán
Coatings



Instituto de Ceramica
y Vidrio, Madrid
Spain



Prof. Lothar Wondraczek
Functional Glass



Friedrich Schiller
Universität Jena
Germany



Prof. Aldo Boccaccini
Biomaterials



Friedrich Alexander
Universität Erlangen-
Nürnberg, Germany



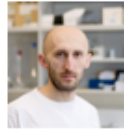
Prof. Enrico Bernardo
Glass Processing



Università degli Studi
di Padova
Italy



Profile



Department of Biomaterials
Dr. Martin Michálek



FAU



Department of Coatings
Assoc. Prof. Amirhossein Pakseresht



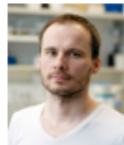
CSIC



Department of Functional Glass
Assoc. Prof. José Velázquez García



FSU



Department of Glass Processing
Dr. Jozef Kraxner



UNIPD



VILA - joint department of the IIC Slovak Academy of Sciences & TnUAD
Prof. Dušan Galusek



Central Laboratories
Dr. Dagmar Galusková



Administration and Projects Office
Dr. Peter Hošťák

Basic Information

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

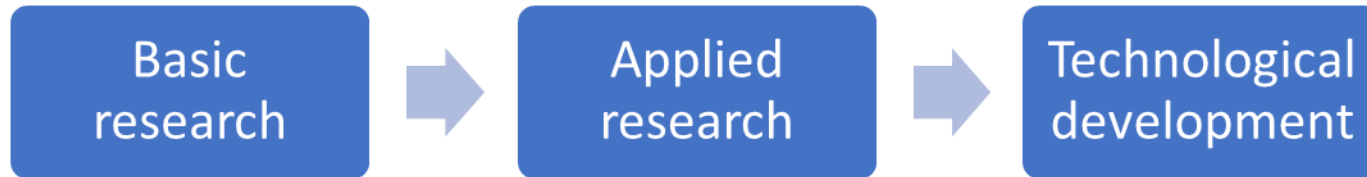
HORIZON-WIDERA-2022-ACCESS-04-01 —
Excellence Hubs
101087154- GlaCerHub

1.6.2023 – 31.5.2027 (48Months)
€4,994,751.25

The scope: The Glass and Ceramics Innovations

What is GlaCerHub Project About?

Why does society fund research institutions?

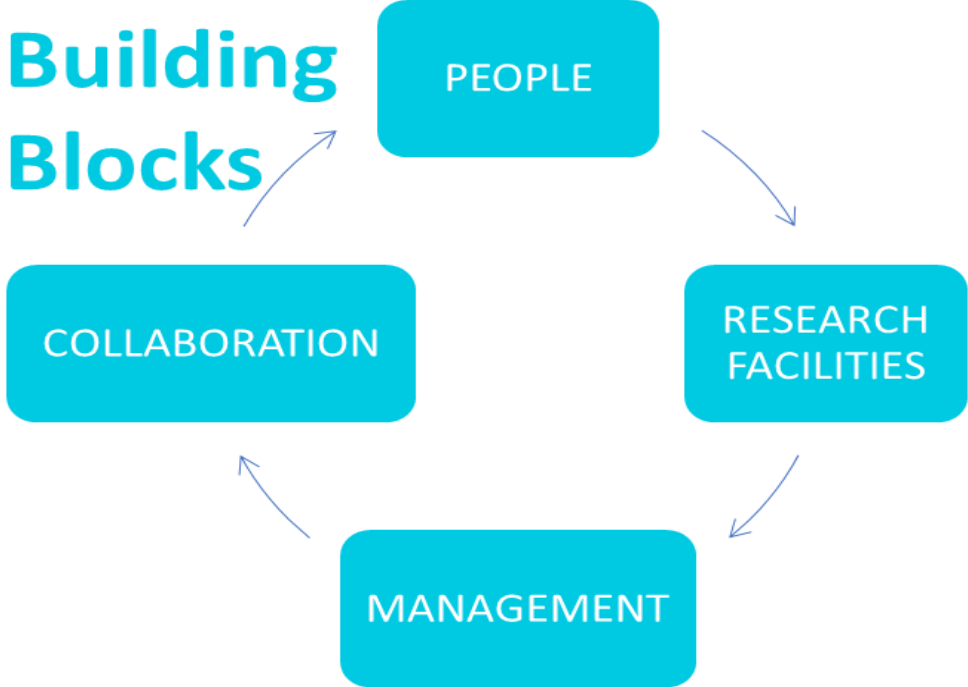


RESEARCH GENERATES : PROSPERITY



FunGlass Ecosystem

Building Blocks



Core Activities

- Basic / fundamental research
- Training and applied research
- International networking

: WHERE'S PROSPERITY???

RESULTS



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

The Solution

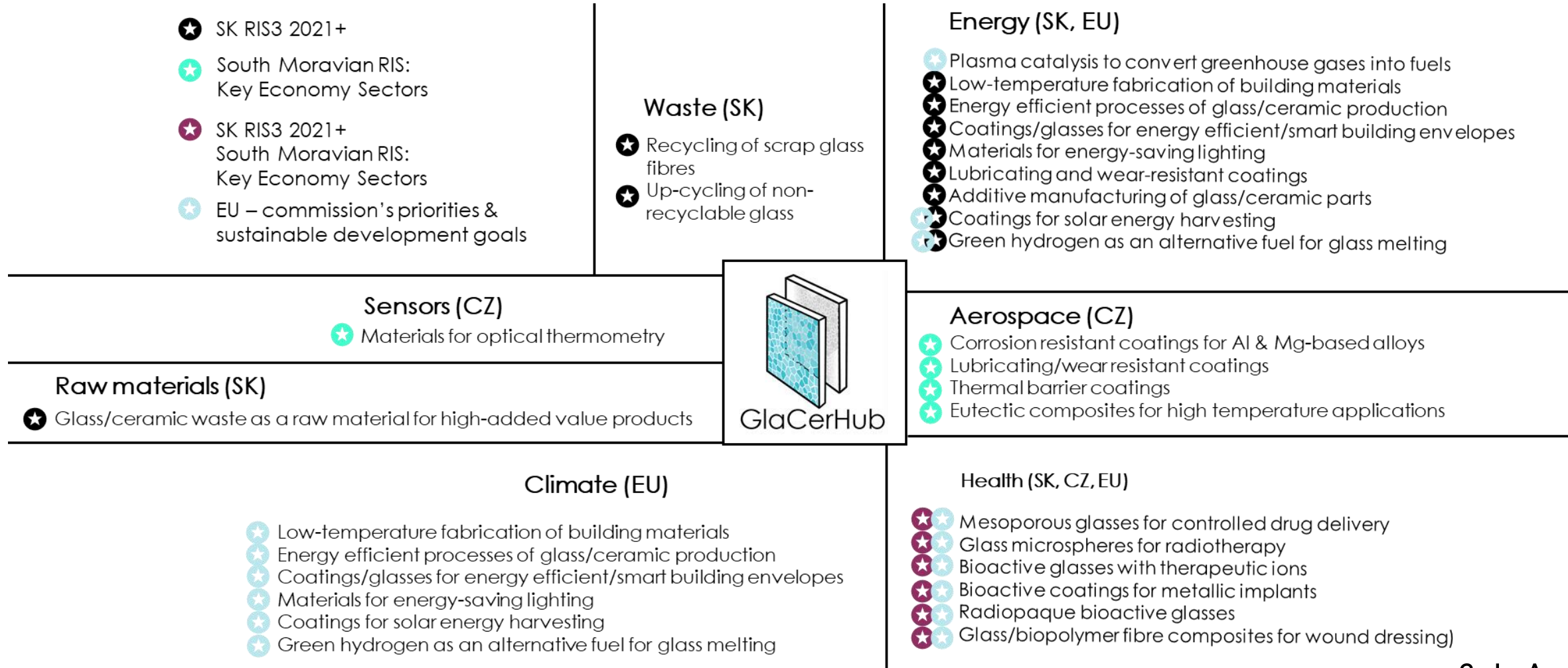
The GlaCerHub project will look to drive the virtuous cycle of innovation and economic growth by taking advantage of the historical and present-day competitive advantage in the **glass and ceramics sectors** to support a **place-based innovation ecosystem** in the border region between South Moravia, Czechia and Trenčín, Slovakia.

Specifically, the GlaCerHub will create appropriate structures that will deliver:

- intense innovation focused **networking (local Chapters)**
- results-oriented **training** of future innovators
- targeted activities to support **technology transfer**
- development of a **common R&I strategy**

- Action plan to assure **long-term sustainability** of GlaCerHub
- **Communication and dissemination plan** to engage citizens and increase the visibility of GlaCerHub's importance to the region

Research Topic Chosen



**G L A
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Consortium

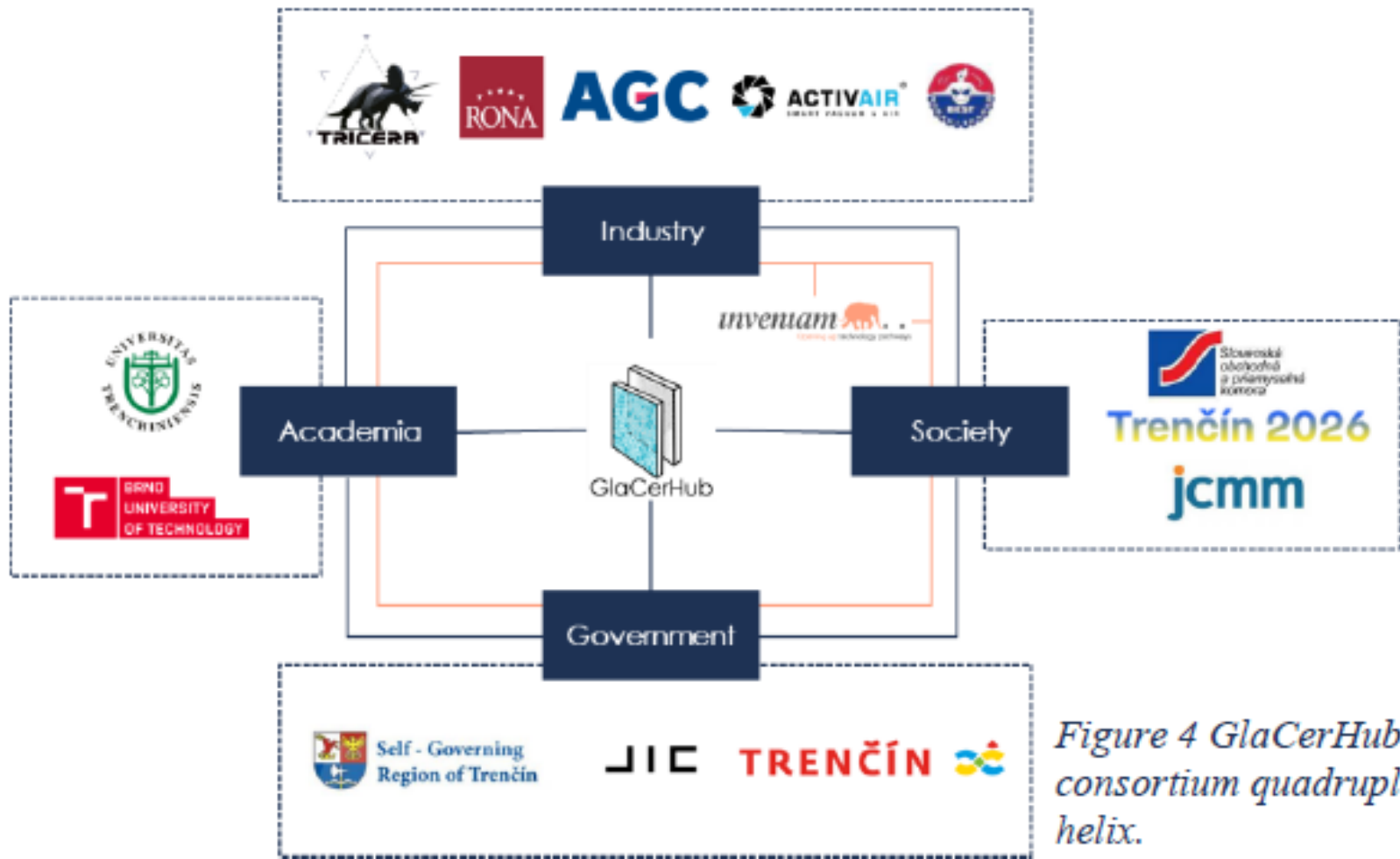


Figure 4 GlaCerHub consortium quadruple helix.

Participant organisation name
Trencianska Univerzita Alexandra Dubceka v Trencine - FunGlass
VYSOKE UCENI TECHNICKE V BRNE
Inveniam Group (CARTAGO VENTURES SL)
RONA, a.s.
Slovenska Obchodna A Priemyselna Komora
Activair s.r.o.
Best - Business, a.s.
JCMM, Z.S.P.O.
AGC Trenčín, s. r. o.
JIC, ZAJMOVE SDRUZENI PRAVNICKCH OSOB
MESTO TRENČÍN
Kreativny institut Trenčín, n.o. Creative Institute Trenčín
TriCera s.r. o
Trenciansky samospravny kraj

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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).

Feedback from evaluators - Excellence

😊 *The proposal plausibly promotes the creation of a new innovation ecosystem built on existing competences. The **overall objective is very convincing** and **well supported by existing technology/competence** in the area of the hub.*

😐 *The state of the art of the **research component** has been **only briefly assessed**.*

😊 *Overall the project **objectives are specific, achievable and realistic**. The **supporting objectives are clearly formulated** and are **linked to the work packages**.*

😐 *Nevertheless, the proposal does **not sufficiently present** the **measurability** of the objectives.*

😊 *The proposal appropriately includes an **infrastructure strategy and investment plan**.*

😐 *However, **the way that the project will mobilize national investments in R&I capacity** is not sufficiently explained.*

😊 *The creation of the **governance structures is particularly well laid out**, and it is very well designed for the project.*

😊 ***The challenges are very well identified**, in particular with respect to how the quadruple helix will be established and how it will work.*

Feedback from evaluators - Impact

😊 The **pathways** to achieve the expected impacts **with respect to training** and courses are appropriately planned and plausible.

😊 The proposed work has the potential to **strengthen linkages between science and business**, and this is supported by the consortium of the proposal as well as the planned work.

😊 The **technology transfer** and training is very **well planned** including entrepreneurial skills.

😊 **Potential barriers** are very **well identified** and are financial, social, environmental, and technical in nature with very appropriate consideration of their mitigation.

😊 The **plan for dissemination is well structured** considering the target audience of the quadruple helix constituting the actors of the project.

😞 However some of the **dissemination activities are underestimated** compared to the scale of the project.

😞 **Exploitation strategies** with respect to the R&I pilots are **not sufficiently explained**.

Feedback from evaluators - Implementation

😊 The **work packages** are **well balanced** between research and technological development and other activities such as the design and support structures. The **interrelation of work packages is clearly evident**.

😊 Overall resources assigned to work packages are adequate for their effective implementation, the costs are adequate too.

😞 However, **resources allocated to two partners are relatively high** compared to the resources allocated to the SMEs and NGOs, and this is not sufficiently justified.

😊 The Consortium includes different R&I ecosystems including research institutes, investors, regional and societal actors at two different EU countries. **The consortium matches the project's objectives on the glass industry**.

😊 The composition of the consortium matches well the project's objectives and the **partners are competent** in the area of the project.

😞 Whilst the quadruple helix is present, **insufficient detail on the operational income of businesses** has been provided.

Farewell tips

Have a story to tell.

Sell your strengths but acknowledge your weaknesses (convert them into opportunities)

Scientific excellence matters....

but needs to be supported with proper administrative/implementation structures.



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