

ZAG

ZAVOD ZA
GRADBENIŠTVO
SLOVENIJE

SLOVENIAN
NATIONAL BUILDING
AND CIVIL ENGINEERING
INSTITUTE



FRISSBE

Fire-safe Sustainable Built Environment

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Motivation for ZAG

(Why were we persistent with our applications?)

With FRISSBE project ZAG will achieve:

Gradual **change in scientific excellence**

- increased number of peer-reviewed papers,
- increased number of citations,
- increased number of patents,
- increased number of researchers.

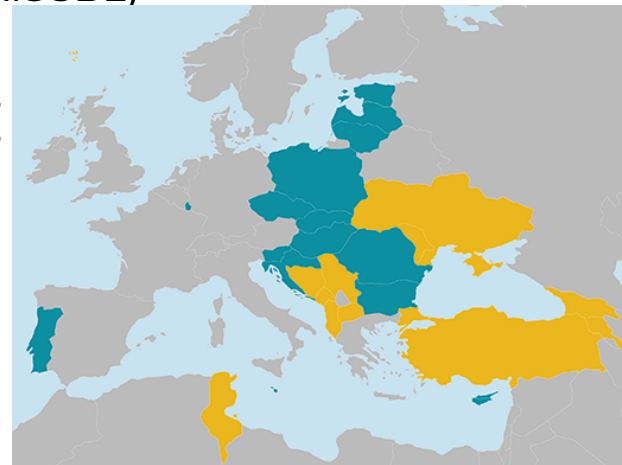
Followed by **increase in the success rate**

EU, national, and industrial projects



H2020 mechanism “Spreading Excellence and Widening Participation”

- Calls:
 - Teaming (ZAG is a partner in H2020 project InnoRenew CoE)
 - Twinning
 - ERA Chair (ZAG is sole beneficiary in H2020 project FRISSBE)
- Only 4 ERA Chair projects in Slovenia, FRISSBE among them!
- ZAG is the only Slovenian institution that participates in two different Widening mechanisms



Administrative data of the FRISSBE project

Submission 2019, FRISSBE, 15 points **accepted**

Duration: 01. 01. 2021 – 31. 12. 2026

1.731.600 € direct personnel costs

Project coordinator: Andraž Legat

268.000 € other direct costs

ERA Chair holder: will be selected (M9)

499.900 € indirect costs

Project manager: Urška Kropf

2.499.500 € TOTAL EU funding



Main reasons for our success

Detailed SWOT

Less defined research areas – more freedom of the ECh

Carefully defined KPIs

Presenting the institutional change that will be enabling integration of ERA Chair at decision making bodies of ZAG

Presenting that the project has support of whole ZAG and setting up the system giving autonomy to ERA Chair

Connection to large infrastructure investment (the Fire lab)

More defined and complex internal assessment system (assessment of activities)



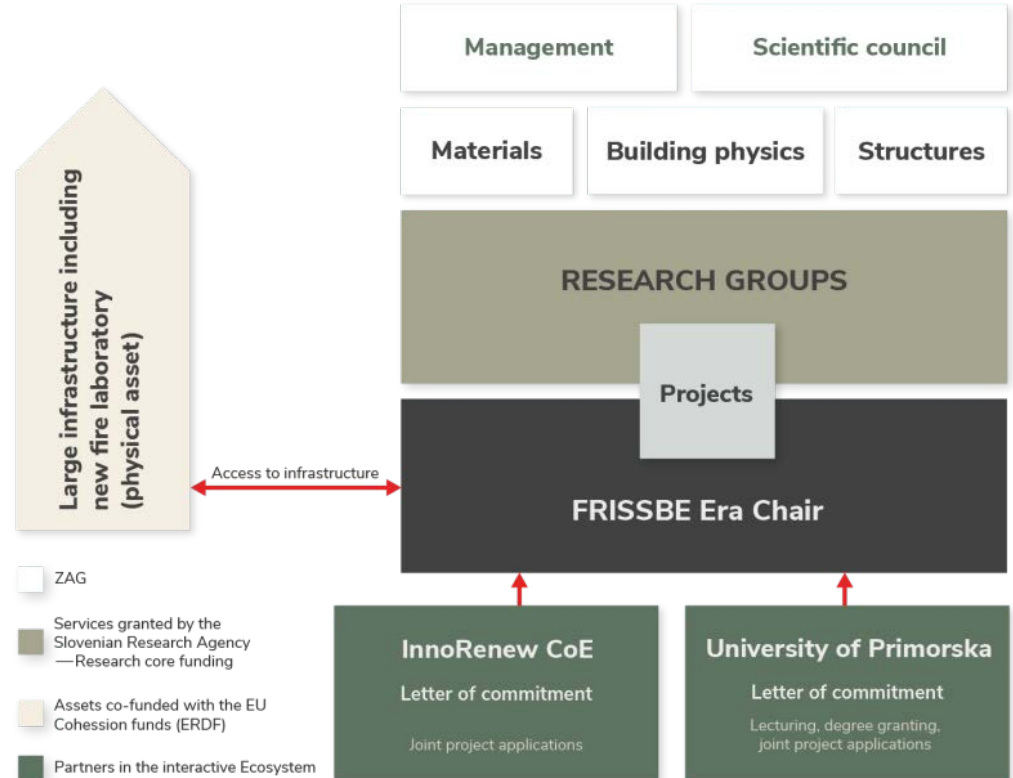
Main reasons for our success

FRISSBE interactive ecosystem

Integration of ERA Chair in national environment beyond ZAG (ecosystem with UP and InnoRenew CoE)

Sustainability of research through integration of ERA Chair in MSc and PhD study programs at University of Primorska

Adoption of best practices from InnoRenew CoE, where 50% of employees are from abroad



Predefined focus areas

Emissions, toxicity and ecotoxicity in fire

Linking bench-top methods to real scale fires, identifying composition of combustion effluents, biomass burning

Fire research on structures

Timber, geopolymers and composite structural elements in fire, pyrophoric carbonization of structural elements

Fire research on materials

Biobased composites, advanced thermal insulations, geopolymers

Numerical methods in fire

Multiscale modelling, combustion process modelling, coupled thermal stress analysis

Hybrid and advanced experimental methods in fire

Numerical/experimental coupling, methods for toxicity and ecotoxicity, façade fire



At the moment:

Open position for ERA Chair holder until end of April 2021:

- Full time employment for 5 years (starting from 09/2021)
- Excellent researcher with great management skills
- Leader of up to 11 researchers

The ERA Chair holder will be expected to conduct experimental, theoretical and/or numerical research in any area of fire safety. Particular emphasis will be given to areas that could have a positive impact in the evolution of fire safety engineering for Slovenia. These areas could include, but are not limited, to material flammability, performance of building systems, fire protection systems and the holistic assessment of infrastructure fire safety.

- more details available at www.frissbe.eu



End of 2021 and early in 2022:

- Open positions for 2 senior researchers (employment for 5 years)
- Open positions for 3 postdoctoral students (employment for 3 years)
- Open position for 1 PhD student (employment for 2 years)

Interested to join FRISSBE team?

Welcome to consult www.frissbe.eu for updated info about employment possibilities.



In 2023 and later:

- Open positions for 3 postdoctoral students (employment for 3 years)
- Open positions for 2 PhD students (employment for 2 years)

Interested to join FRISSBE team?

Welcome to consult www.frissbe.eu for updated info about employment possibilities.



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Thank you very much for your
attention!

