

**REFRESH**

The word "REFRESH" is rendered in a bold, teal, sans-serif font. The letter "R" is partially overlaid by a circular teal arrow pointing clockwise. The letter "E" is also partially overlaid by a circular teal arrow pointing clockwise. To the left of the "R", there is a teal circular icon containing a white lightning bolt. The entire graphic is set against a white background.

## REFRESH – project goal

→ **To create a strong Innovation ecosystem of MSK in four domains of specialization: new power engineering, automation and robotics in production and transport, digitization, new materials and environmental technologies, including evaluation of socio-economic aspects**

- Significant decline in the number of university students.
- Transition from brain drain to brain gain.
- Low number of research thematic areas where critical mass for achieving top international quality is reached, leading to low attractiveness of research organizations in the region.
- Availability of human resources (top experts).

# REFRESH - Basic data

Project applicant: **VSB – Technical University of Ostrava**

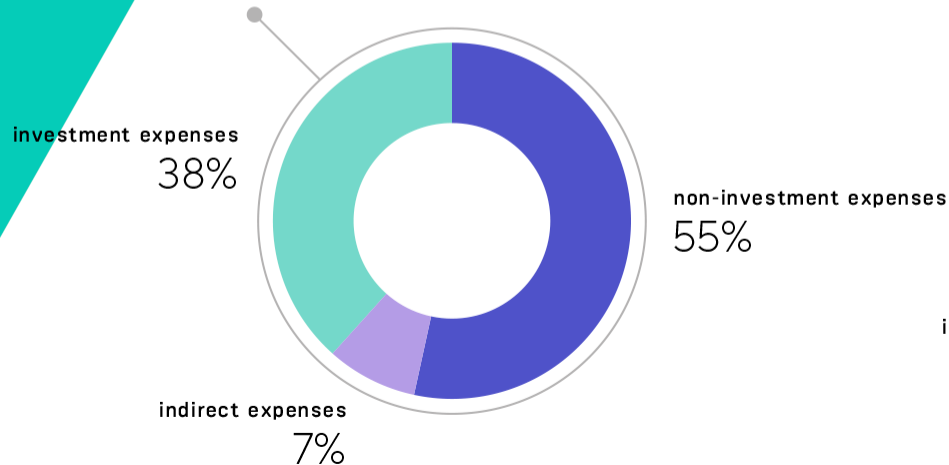
Partners: **University of Ostrava, MSIC, Fraunhofer-Gesellschaft**

Application partners: **148 industry and university partners with LoI**

Implementation period: **1/6/2023 – 31/12/2027**

Place of implementation: **Ostrava**

Budget: **110 mil. EUR**

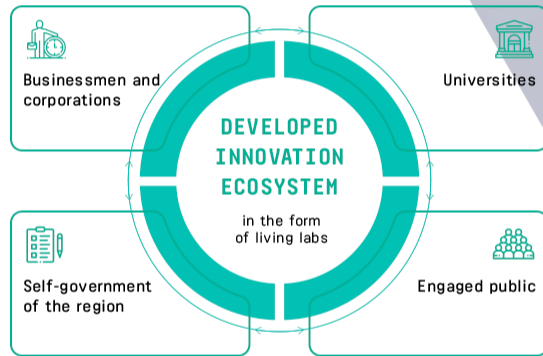


# REFRESH - applicant partners (selection)



# REFRESH – Living Labs

Four living laboratories will be the platform for the fulfilling the goals of the REFRESH project



They cover the needs of 80 % of the corporate sector in MSK and will create qualitatively new conditions for the critical volume of „quadruple helix“ cooperation



# REFRESH - indicators

450  
mil. CZK

Cumulative volume of commercialization activities with companies during the duration of the project

450

The number of subjects from the application sphere using the infrastructure

50

Projects in cooperation with the public sphere

6.000

Students using infrastructure

106  
FTE

New jobs in R&D

10

Excellent scientists (ERC laureates, H2020 teachers, Highly Cited Res.)

450

Impactful publications - of which with foreign partners - 200

100

Non-impact indexed Scopus / WoS

15

Filed patent applications

10

New accredited study programs

40

Courses re/upskilling

50

Number of foreign universities and research organizations involved in R&D activities

10

Number of supported start-ups

15

Received projects within the framework of European grant schemes



An aerial photograph of a landscape, split vertically. The left side shows a grey, rocky, and somewhat barren terrain with some sparse vegetation. The right side shows a lush, green field with a winding path or stream. A teal banner with white text is centered across the middle.

**Thank you for your attention**