

IOT Project

Innovative Open Technologies

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University of Maribor



Univerza v Mariboru

Fostering a **symbiotic relationship between research institutions, the economy, support institutions and local communities** through open innovations and technologies.

The IOT project addresses main challenges in the region through aiming at:

- **increasing both the number of high-tech companies and the competitiveness of SME's in the region;**
- **creating new jobs with high added value;**
- **preventing brain drain, thus enabling long-term regional development.**

The IOT project has been designed in accordance with the principles of **smart specialisation** in the priority area of **Horizon 2020**: „Health, Demographic Change and Wellbeing“.

It has been incorporated into the following objectives of the **Operational Programme for the Implementation of European Cohesion Policy in the period 2014-2020**:

1. Promoting research, technological development and innovation;
3. Increasing competitiveness of SMEs.

It is based on **Europe 2020**: A strategy for smart, sustainable and inclusive growth.

It supports **KET – Key Enabling Technologies:** key technologies promoting sustainable competitiveness and growth, addressing societal challenges and encouraging the development of innovative products.

The project is in line with the **Energy Efficiency Directive:** compatibility of concepts of smart buildings, smart grids and microgrids.

The project supports at least **Danube Region Strategy**'s priority areas:

7. **Knowledge Society** through research focused on health, demographic changes and wellbeing
8. **Competitiveness** through knowledge transfer activities (Danube Transfer Centres)
9. **People & Skills** through training R&D human resources and participation of students in innovation process for building region's potentials
10. **Institutional Capacity** through inclusion of local communities and regional authorities in providing support to SMEs and other target groups of IOT



KNOWLEDGE
INSTITUTIONS

The diagram features a central title 'KEY PARTNERS AT REGIONAL LEVEL' in white text on a dark gray background. Surrounding the title are four orange circles, each containing a partner category in white text. The circles are arranged with one at the top left, and three in a row below it. The categories are 'KNOWLEDGE INSTITUTIONS', 'COMPANIES', 'SUPPORT INSTITUTIONS', and 'LOCAL COMMUNITIES'. Below the 'SUPPORT INSTITUTIONS' circle, the text 'DTCs, Regional development agencies' is written in a smaller white font.

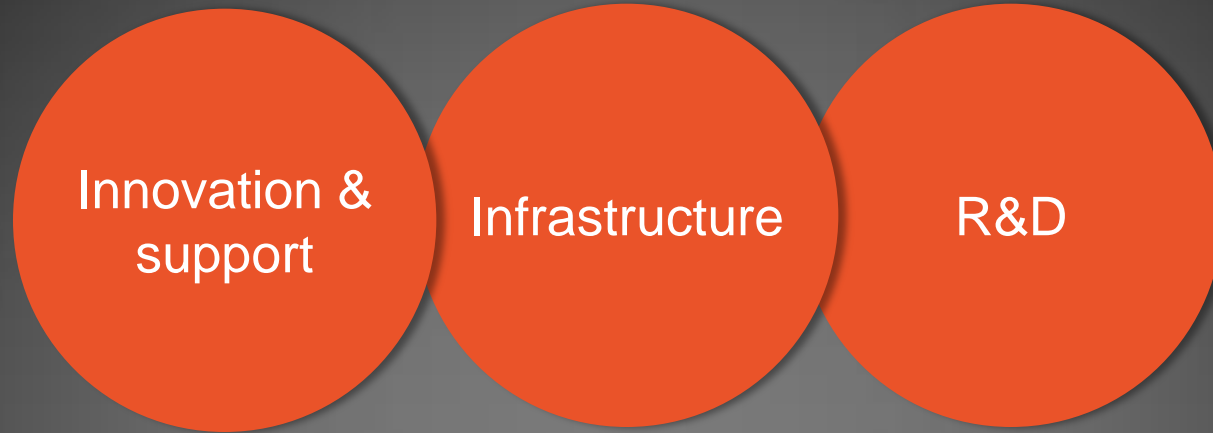
KEY PARTNERS AT REGIONAL LEVEL

COMPANIES

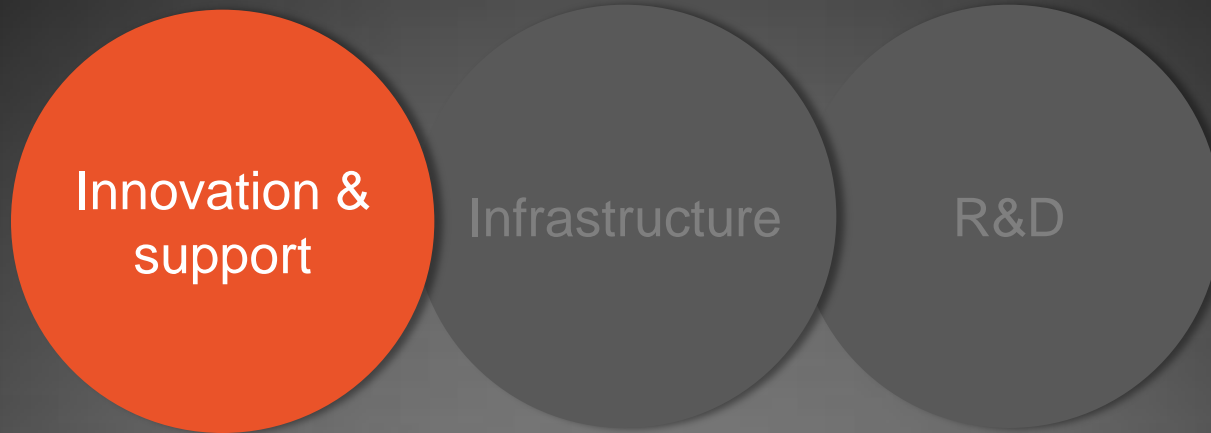
SUPPORT
INSTITUTIONS

LOCAL
COMMUNITIES

DTCs, Regional
development
agencies



KEY ELEMENTS OF THE IOT PROGRAMME



Establishing innovation support and IOT entry points („one-stop-shop“)

Cooperating with R&D partners

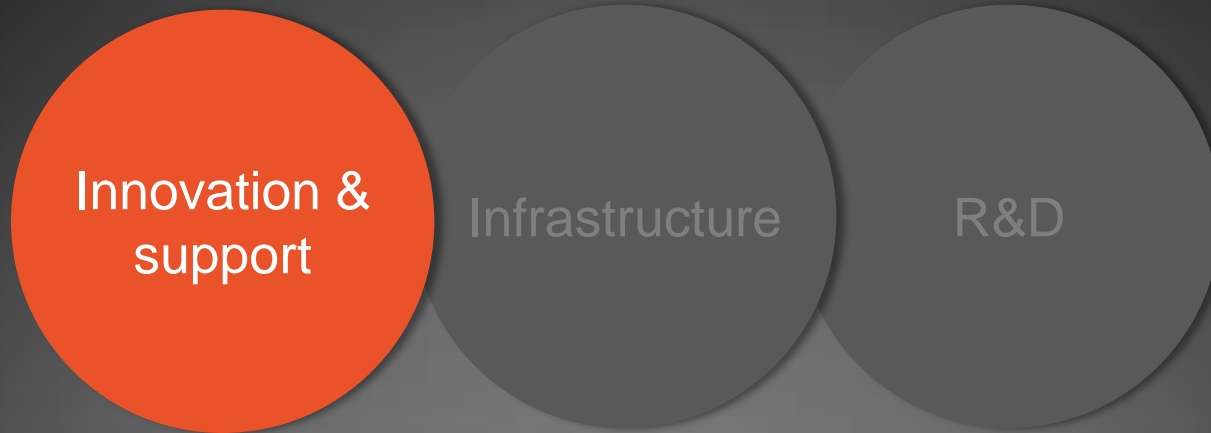
Promoting innovation and knowledge/technology transfer

Entrepreneurship – promotion, consulting and startup incubation

Internationalisation

Assisting local communities and attracting investors

Developing national and international (European) projects

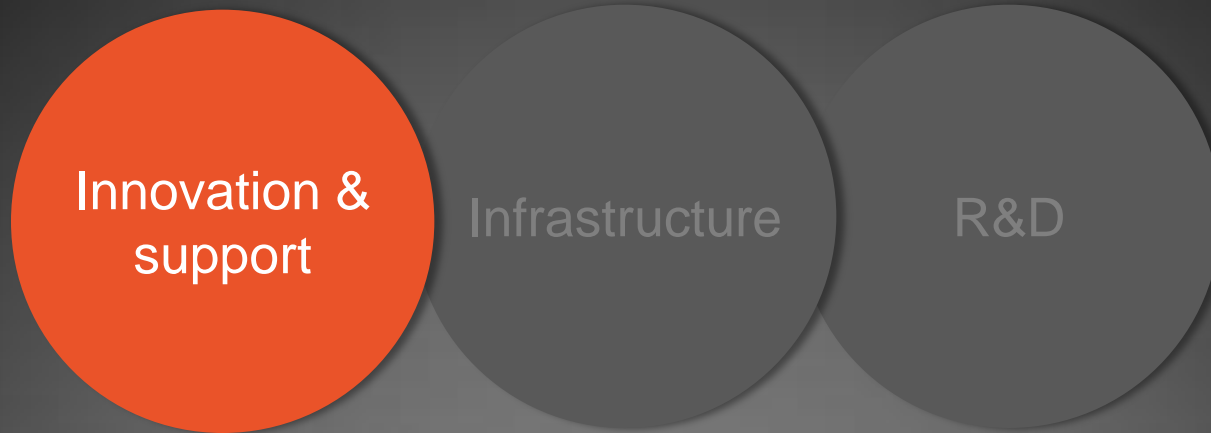


Promoting innovation and knowledge/technology transfer

Programme for the promotion of innovation

IPR (intellectual property rights) management

Commercialisation of knowledge and technologies

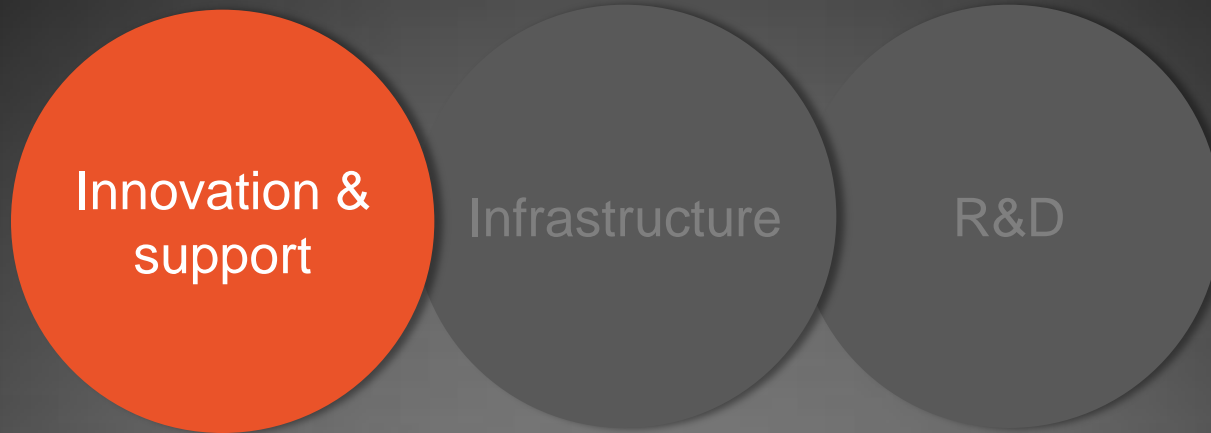


Entrepreneurship – promotion, consulting and startup incubation

Programmes for the promotion of entrepreneurship

Consulting services and other activities for start-up and early-stage companies

Start-up incubation and support for global growth

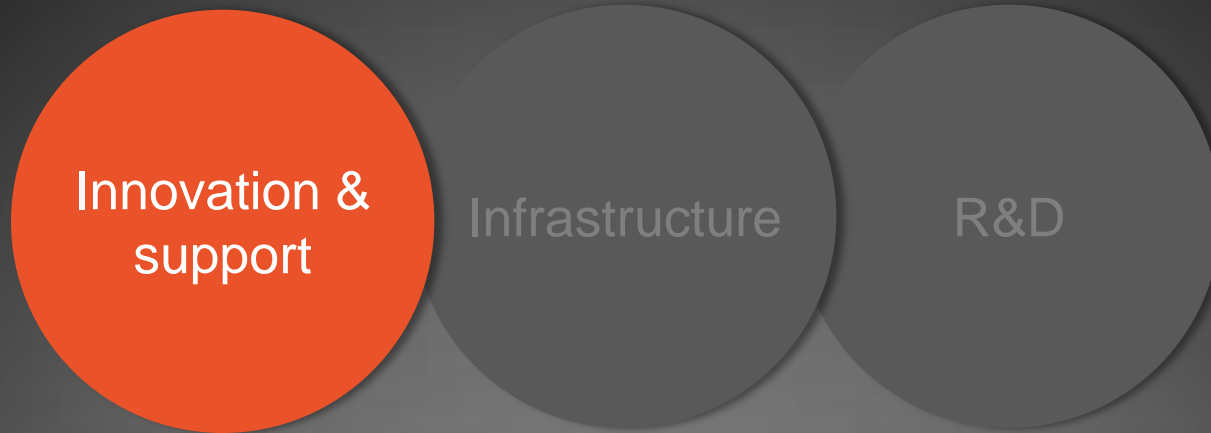


Internationalisation

Assistance in foreign market penetration and sales promotion

Strengthening the capability of SMEs for entering foreign markets

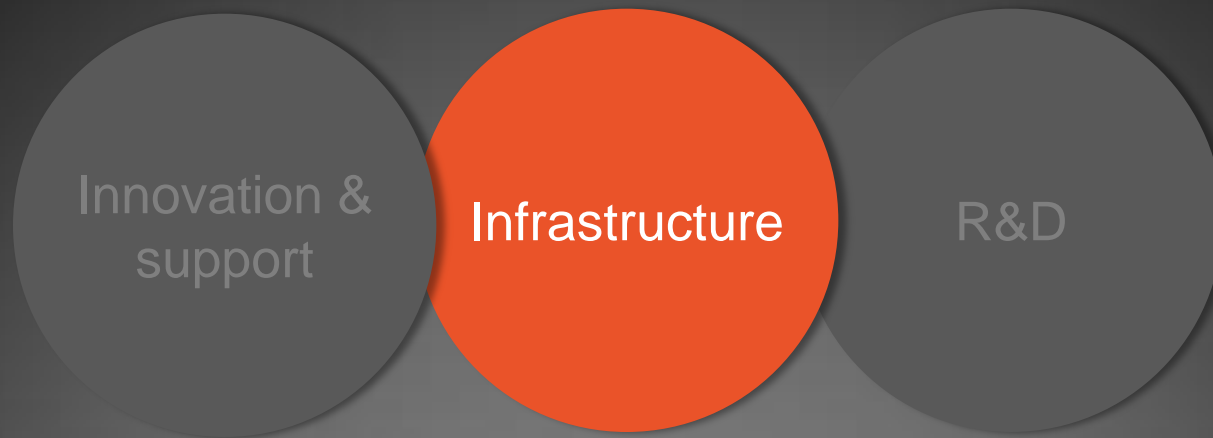
Organising joint appearances abroad



Assisting local communities and attracting investors

Assisting local communities in the planning of strategic economic development in synergy with the IOT project

Attracting domestic and foreign investors to the region and immovable property management



Establishing an R&D infrastructure centre

R&D units in accordance with KET (Key Enabling Technologies)

Horizontal relationship

Integrative method of work

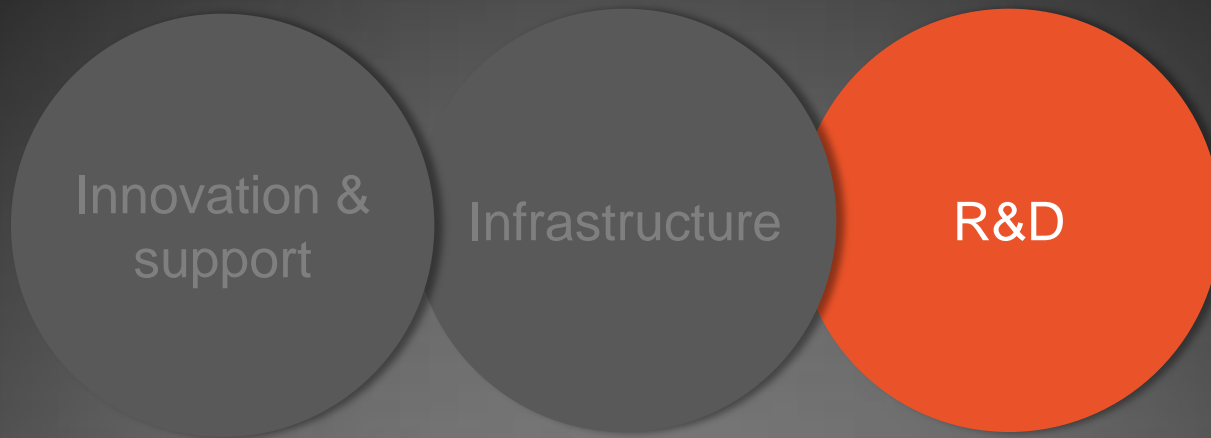
Access to equipment for university researchers and the industry

Access to results and development in accordance with the „Demola principle“

The work of young innovative researchers

Possibility of establishing spin-outs

New jobs



R&D for the development of new higher value-added products and services

Connecting companies with R&D partners in the context of the lab centre in order to conduct: applied research, prototyping, testing in accordance with certified methods, development of products

Joint purchase of R&D equipment and joint R&D projects

Forming R&D consortiums in order to secure funds under various funding schemes

Training of R&D human resources

Participation of pupils, students and graduates in the innovation process

EU STRATEGY FOR THE DANUBE REGION



Innovation &
support

Priority area 8:
Competitiveness

Priority area 10:
**Institutional
Capacity**

Infrastructure

Priority area 7:
Knowledge Society

R&D

Priority area 7:
Knowledge Society

Priority area 9:
People & Skills

Project value:
€ 100 million

Innovation &
support

Infrastructure

R&D

ERDF

Transnational
programmes
Cross-border
programmes
...

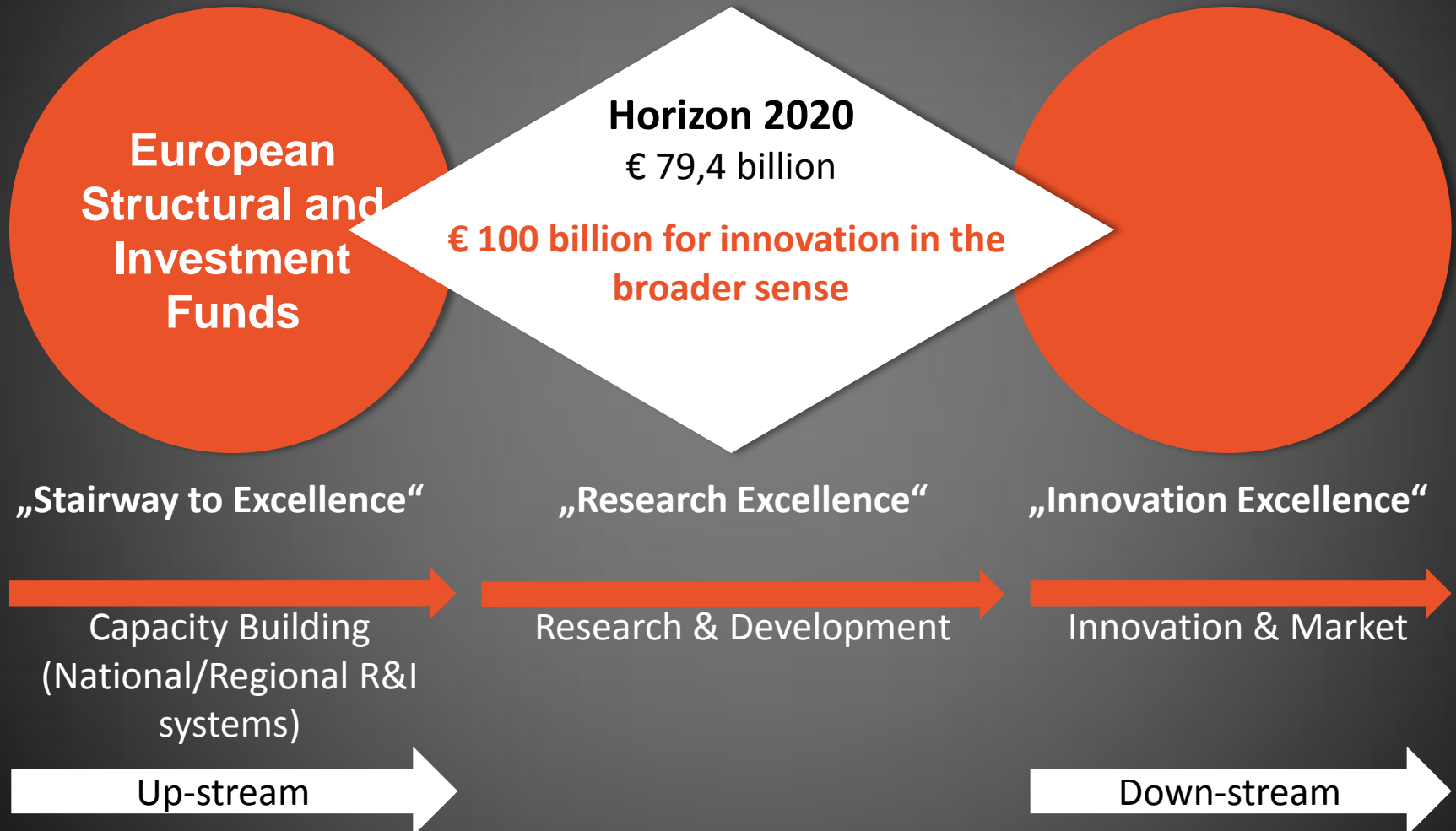
ERDF

Cross-border
programmes
...

Horizon 2020

ESF
Erasmus+
...

COMPLEMENTARY FUNDING SOURCES



UNIVERSITY
OF MARIBOR

MANAGEMENT BOARD

GRAZ
UNIVERSITY OF
TECHNOLOGY

BioTechMed-Graz

MEDICAL
UNIVERSITY
GRAZ

UNIVERSITY
OF TRIESTE

UNIVERSITY
OF NOVI SAD

MANAGEMENT BOARD represents universities with the following capacities:

Research and scientific excellence (interdisciplinary competences, including natural sciences, social sciences, humanities, technological sciences, medicine,...)

Knowledge and technology transfer,

Large number of **graduates and post-graduates,**

Cooperation between **experienced and young researchers.**

Networks and competences in various IOT areas.

Addressing main priorities of **Europe 2020** and **Horizon 2020**:

SOCIETAL CHALLENGES

(especially Health, demographic changes and wellbeing)

as well as

INDUSTRIAL LEADERSHIP

and

EXCELLENT SCIENCE

The IOT project network encompasses
Danube Region,
Alpine Region and
Adriatic and Ionian Region.

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