

**6<sup>TH</sup> SENSE ASSET VALORISATION ACTION**

# **Horizon Europe: Support in Securing Funding for Innovative Projects**

**Project presentation**

27/09/24.

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*This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101159927.*



**tecnalia**

MEMBER OF BASQUE RESEARCH  
& TECHNOLOGY ALLIANCE



**Creating Growth : Improving Society**

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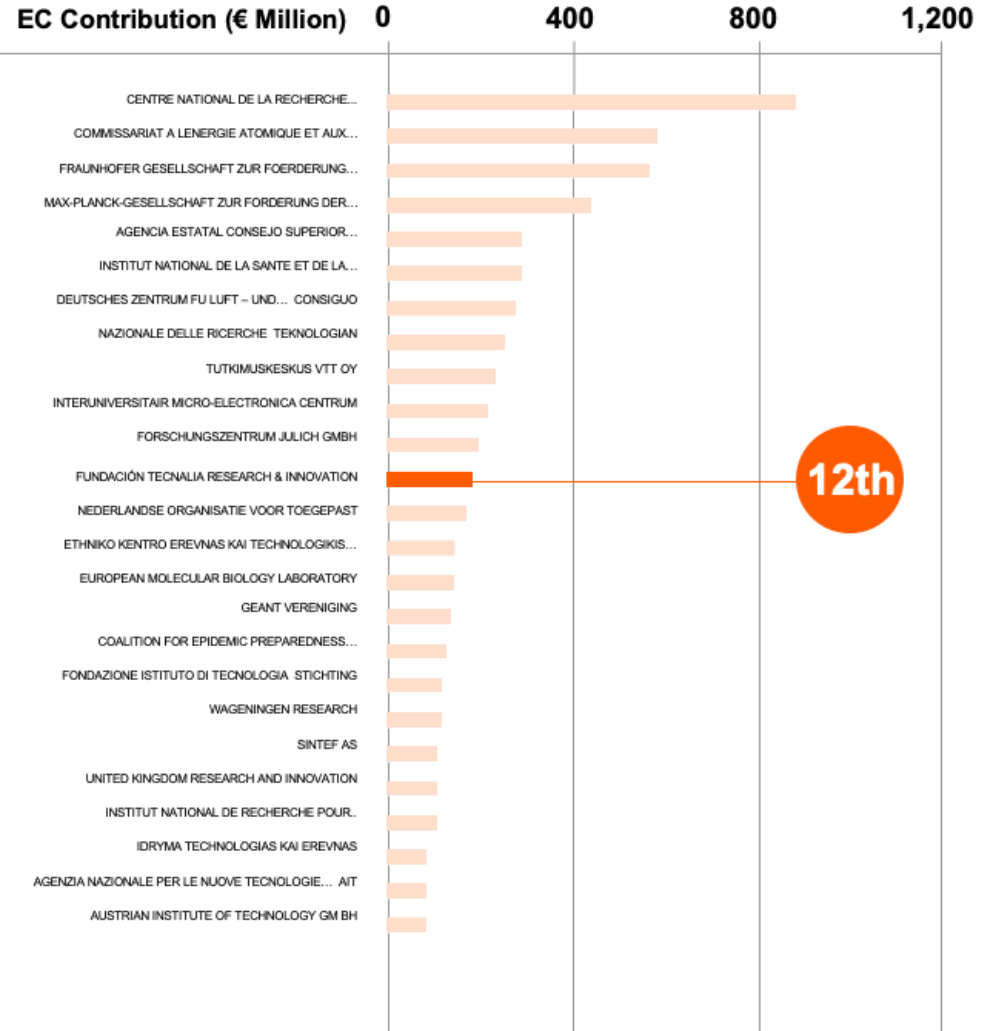
The largest applied research and technological development centre in Spain

#12 out of 2,900 European Research Organisations

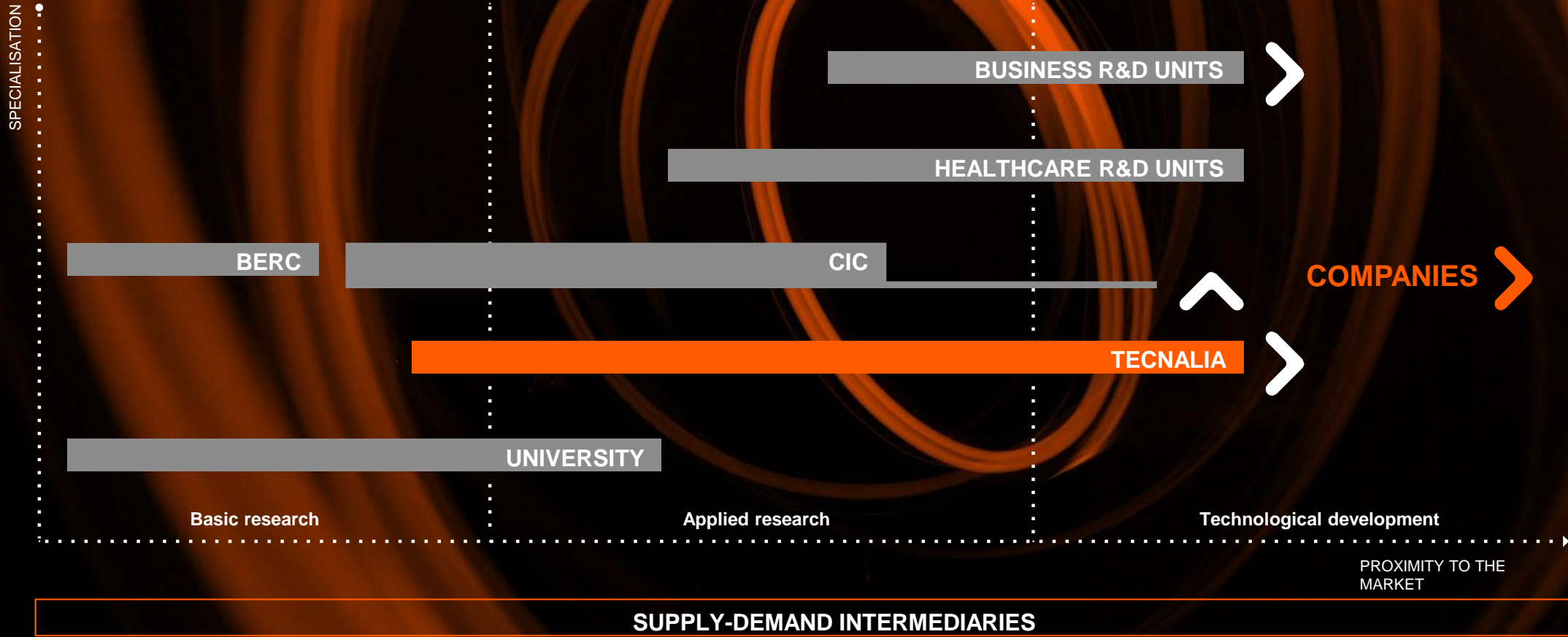
Over 3000 national, regional and local projects

Nearly 1000 EU projects

Top 25 REC Organisations  
EC Contribution (€ Million)



# VALUE CHAIN



# Our scopes of action are aligned with the **Sustainable Development Goals (SDG)**

With a **multi-sectoral** and **multi-technological** perspective, we listen and work with companies to respond to the **major global challenges**.



We are committed to a closer collaboration with companies to obtain the highest level of satisfaction for you.

Satisfied clients\*

8.7 / 10

\* Client satisfaction index for 2023.

tecnalia.com

Income

137 Million Euros

27%

Large companies

>9,800

Clients  
2011 - 2023

73%

SMEs

# Some clients :



# Alliances :







### Headquarters

📍 Basque Country

### Branches

- Madrid
- Zaragoza

### Branches Abroad

- China
- Colombia
- France
- Italy
- ★ Serbia



A large, stylized orange star graphic composed of thick, overlapping lines, centered on the page. The star has six points and a circular center. The background is a solid orange color with various decorative elements like small white dots and lines scattered around.

# TECNALIA Serbia



# tecnalia: a serbia

**Is a 100% TECNALIA owned company,**  
set up as a technology acceleration office  
for agile R&D with a focus on high  
technological excellence and rapid  
prototype deployment and testing in  
relevant environments with final users.

## Tecnalia Serbia

- ↪ A young team of 10 researchers and developers
- ↪ background in electrical engineering
  - ↪ *biomedical instrumentation and technology*
  - ↪ *signal processing and automation*
- ↪ Collaboration with:
  - ↪ *ETF, FTN, Medical Faculty*
  - ↪ *4 research Clinics*
  - ↪ *BIO4, IKVBD, etc.*

- ↪ Since 2018 won over 16M€ in public programs:
  - ↪ *7 H2020 projects*
  - ↪ *3 Horizon Europe projects*
  - ↪ *10+ privately funded R&I actions*



## Scope of work



**PROJECT IDEATION,  
FUNDING ANALYSIS,  
APPLICATIONS,  
FTO ANALYSIS,  
COORDINATION**



**HARDWARE  
DEVELOPMENT:  
ELECTRONICS,  
3D PRINTING,  
WEARABLES**



**SENSORS,  
ACTUATORS,  
PRINTED  
ELECTRONICS**



**SOFTWARE  
PROTOTYPING DATA  
PROCESSING  
ANALYSIS  
VISUALISATION**



**VALIDATION IN  
RELEVANT  
ENVIRONMENTS**



**IPR &  
SCIENTIFIC  
PUBLISHING**

**RND ACCELERATOR IN HEALTH TECHNOLOGIES**



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## SIXTHSENSE

Grant agreement ID: 883315

Status

Ongoing project

Start date

1 May 2020

End date

30 April 2023

Funded under:

H2020-EU.3.7.5.

Overall budget:

€ 7 242 442,50

EU contribution

€ 7 242 442,50



Coordinated by:

FUNDACION TECNALIA RESEARCH &  
INNOVATION

 Spain



SIXTHSENSE Project participating countries

9 participating countries

21 partner

6 first responder organizations

5 European research centers

5 SME partners

3 universities

2 large industry actors



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## THE VALUE PROPOSITION

For first responders in hazardous situations

Wearable health monitoring system

Multimodal sensor data

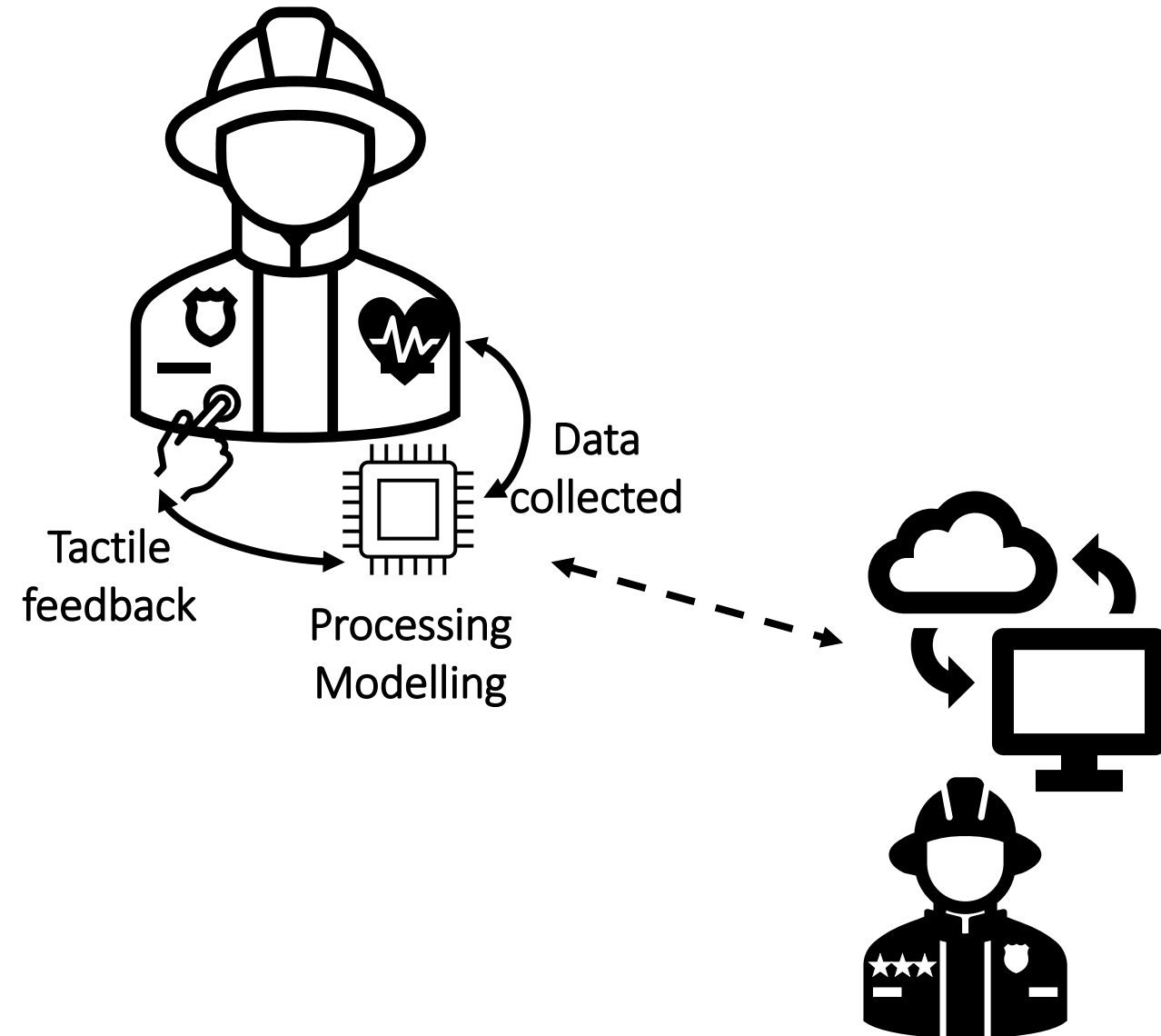
Predictive models

Closed loop tactile biofeedback

Sensing health status

Team management tool for real-time monitoring

Effectiveness and operational safety.





## Pilot testing in relevant conditions

- Kopaonik mountain with Serbian Mountain rescue services
- 6 subjects in multiple sessions
- Testing for 4 days at 2k altitude and temperatures of -5°C to 5°C
  - *In field testing*
  - *Electrotactile feedback*
  - *Co-development meetings*
  - *Ergonomics and usability*







## Alpha prototype in relevant conditions

- Tested in a firefighting training centre, Rijeka Croatia
- 20+ subjects from 4 fire fighting brigades
- Testing for 3 days at temperatures of  $\sim 35^{\circ}\text{C}$ 
  - *In field validation of demonstrates*
  - *Co-development meetings*
  - *Psychological and cognitive load*
  - *Electrotactile feedback*
  - *Ergonomics and usability*
  - *Physiological testing*





## Alpha prototype in relevant conditions 2

- Four-day testing – Bormio, Italy
- 14 subjects from 2 national mountain rescue services
- Testing at 2.6k altitude and sub 0 temperatures
  - *In field validation of demonstrates*
  - *Co-development meetings*
  - *Psychological and cognitive load*
  - *Electrotactile feedback*
  - *Ergonomics and usability*
  - *Physiological testing*





## Beta prototype winter edition

- Kopaonik mountain with Serbian Mountain rescue services
- 10 subjects in multiple sessions
- Testing at 2k altitude and temperatures of -10°C
  - *In field testing*
  - *Nighttime and daytime testing*
  - *Co-development meetings*
  - *Ergonomics and usability*

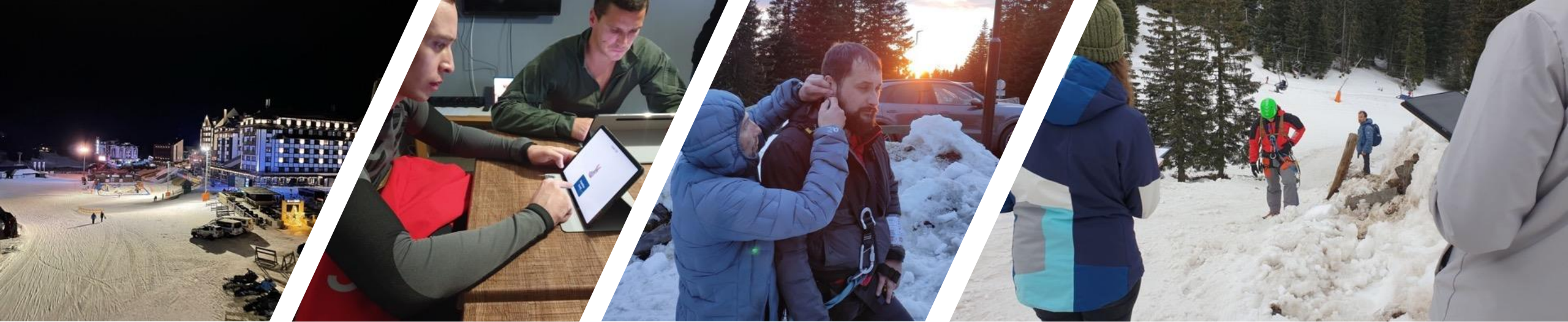




## Beta prototype summer remix

- Tested in a firefighting facilities, Postojna, Slovenia
- 20+ subjects from 4 fire fighting brigades
- Full system setup – From sensor to feedback
- Full chain telecommunications setup
  - *In field validation of demonstrates*
  - *Co-development meetings*
  - *Efficacy and effectiveness*
  - *Ergonomics and usability*
  - *Torturing some fireman*





## Gamma prototype winter edition

- Kopaonik mountain with 2 National Mountain rescue services
- 15 subjects in multiple sessions
- Testing at 2k altitude and sub 0 temperatures
  - *In field testing*
  - *Nighttime and daytime testing*
  - *Co-development meetings*
  - *Ergonomics and usability*





## Gamma summer climax

- Tested in a firefighting training center, Rijeka, Croatia
- 30+ subjects from 3 fire fighting brigades and 2 national mountain rescue services
- Full system setup, team deployments
- Full chain telecommunications setup
  - *In field validation of demonstrates*
  - *Co-development meetings*
  - *Efficacy and effectiveness*
  - *Ergonomics and usability*



## Wealth of data



- ↳ Huge amount of data was collected
- ↳ To convert data into assets it needs to be:
  - ↳ *Cleaned*
  - ↳ *Curated*
  - ↳ *Managed*
  - ↳ *Protected*

## What is an innovation?



### **Innovation:**

**a new way of solving a problem,  
implemented in a solution  
to bring additional value to the market.**



## Business Innovation Example

### Problem:

With the shift to cloud computing platforms, SMEs faced the challenge of needing advanced security operations beyond their internal capabilities.

### Opportunity:

SMEs are willing to invest in security but lack the resources to build and manage a full Security Operations Centre (SOC).

### Idea:

SOCaaS, offering SMEs managed detection and response services without needing an in-house SOC.

### IMPLEMENTATION:

**Organisational Restructure:** Created a dedicated SOC team and customer support staff.

**Technological Infrastructure:** Built cloud-native solutions and automated threat detection and response processes.

**Product Evolution:** Expanded services to include fully managed detection and response integrated with cloud services.

**Partnerships and Certifications:** Partnered with AWS and secured industry certifications to ensure compliance and reliability.

**Market Positioning:** Developed scalable pricing models and provided SMEs with onboarding support to adopt SOCaaS effectively.



## What is an innovation?



### Innovation:

a new way of solving a problem,

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to bring additional value to the market.



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# Support in funding for innovations



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# PROJECT IN SHORT

*WIDERA - Pathways to Synergies: Downstream*

## Project Information

### 6SAVA

Grant agreement ID: 101159927

### DOI

[10.3030/101159927](https://doi.org/10.3030/101159927)

### EC signature date

29 January 2024

### Start date

1 February 2024

### End date

31 July 2026

### Funded under

Widening participation and spreading excellence

### Total cost

€ 1 198 040,00

### EU contribution

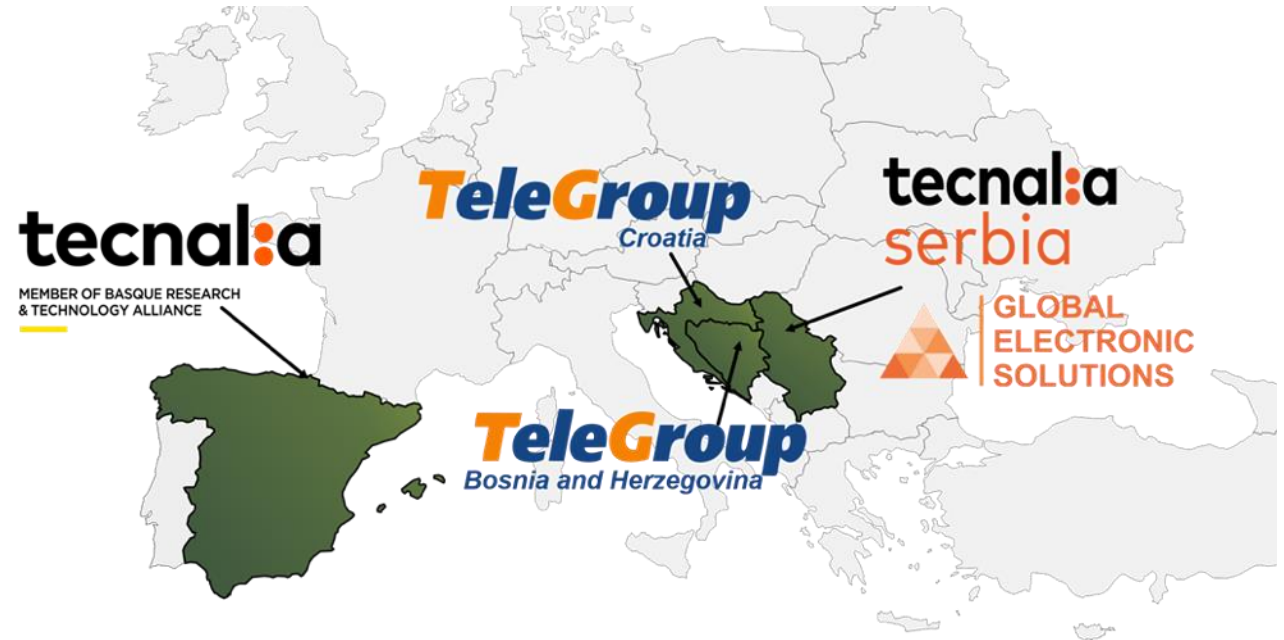
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### Coordinated by

TECNALIA SERBIA DOO BEOGRAD

Serbia



**5 partners from 4 countries**

**4 Innovative companies**

**1 European research center**



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## Enhancing Regional R&I Development:

- Knowledge transfer
- Technological advancement
- Collaborative excellence in
  - Serbia
  - Croatia
  - Bosnia and Herzegovina
- Increase participation of local actors in the European R&I ecosystem.



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serbia



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## Fostering Innovation:

- International partnerships
- High involvement of industry
- Collaboration with civil society organizations and community leaders.



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## Leveraging Experience:

- Boost innovation capacities
- Proposal writing and consortium management
- Competitive funding administration
- IPR management



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## 6<sup>TH</sup> SENSE ASSET VALORISATION ACTION

Become 6sava project stakeholder and get free access to:

### Collaborative Platform:

- Find opportunities
- Match with partners
- Get into R&I with support
- Voice community needs and priorities



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## 6<sup>TH</sup> SENSE ASSET VALORISATION ACTION

Become 6sava project stakeholder and get free access to:

### *Consortia Opportunities:*

- Enter international consortia for project proposals
- Get expert support to enhance your project success
- Boost innovation and international market outreach



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## 6<sup>TH</sup> SENSE ASSET VALORISATION ACTION

Become 6sava project stakeholder and get free access to:

### *R&I Service Providers and Funding:*

- Use our technology uptake platform for B2B matchmaking
- Access diverse funding sources



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## 6<sup>TH</sup> SENSE ASSET VALORISATION ACTION

Become 6sava project stakeholder and get free access to:

### Expert-Led Workshops:

- On technology uptake
- On intellectual property management
- On securing public funding for research & innovation



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Let's connect and  
make projects!



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