AI-BOOST

Opportunities for the EU AI ecosystem – Open Challenge Prize Programme

AI, Data, Robotics Forum – European Sovereignty in AI, Data and Robotics
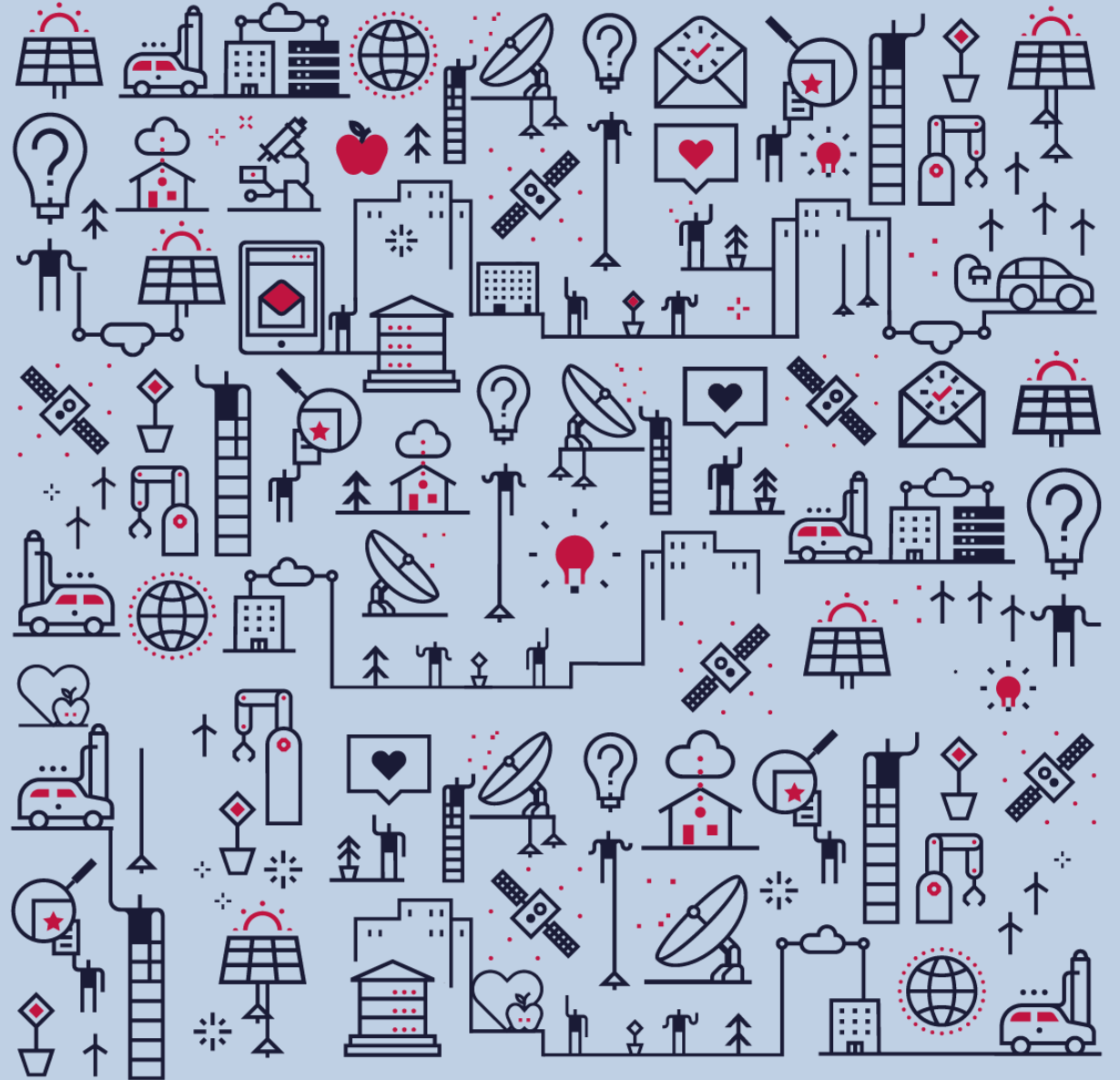
05 November 2024

Together
Innovation
Works

zabala
INNOVATION

EU version

We are Zabala Innovation, the leading international consultancy firm in innovation strategy and R&D&I financing.

Since 1986 we have been accompanying our clients in their innovative drive to turn it into the key factor of their competitiveness.

With this document we would like to invite you to get to know us a little better. Because our experience says that...

...Together
#InnovationWorks

520 *people*

13 *offices*

5 *countries*

AI-BOOST

Objectives and track record

Who we are?

zabala INNOVATION

F6S

INESCTEC

eit Digital

PAVOL JOZEF ŠAFÁRIK UNIVERSITY IN KOŠICE

CINECA

upf. Universitat Pompeu Fabra Barcelona

Objectives

Open Challenge Prize Program

Establish a prominent open challenge prize program that will serve as a **benchmark** for the EU AI community

Open AI Competitions

Create attractive AI open innovation competitions

Breakthrough Solutions

Leading to breakthrough technologies and solutions with substantial scientific progress. Leading trustworthy and human-centric real-world solutions.

Attract Talent

Attract outstanding talent and the best teams to tackle AI challenges.
Teams from academia and industry.

Large AI Grand Challenge

Four (4) innovative AI start-ups from Europe will share the prize of €1 million and 8 million computational hours for the development of innovative language foundation models

Partnership with

Support from

Large AI Grand Challenge

LINGUA CUSTODIA

A fintech company specialising in AI and Natural Language Processing (NLP) for the finance sector, aiming at enhancing the fintech sector operations with solutions designed to achieve speeds five times faster than current system

TILDE

Experts in language technologies, offering machine translation and AI-powered chatbots, targeting Balto-Slavic languages spoken by 155 million individuals within the EU and candidate countries

Unbabel

A language technologies company headquartered in Lisbon, combining AI and human translation for multilingual support, encompassing all 24 official EU languages

textgain

An AI start-up enabling companies and governments to gain insights from unstructured data through predictive text analytic and focusing on the analysis of hate speech, an area of significant concern that has historically received limited attention.

Large AI Grand Challenge

EuroHPC JU allocated additional compute time to the supercomputer MareNostrum 5

MULTIVERSE COMPUTING

A quantum computing start-up focusing in enhancing the energy efficiency and speed of large language models.

Award Ceremony

What is next?

Our proposal and methodology

Funded by
the European Union

Support the AI innovation package

Support startups, **SMEs** and academia

Strengthening the development and use of **trustworthy AI** that complies with EU values and rules.

Cooperation with institutions, experts and stakeholders

Challenges for **application areas** such as robotics, health, biotech, manufacturing, mobility, climate and virtual worlds, among others.

Opportunities for collaboration

AI Challenge Definition

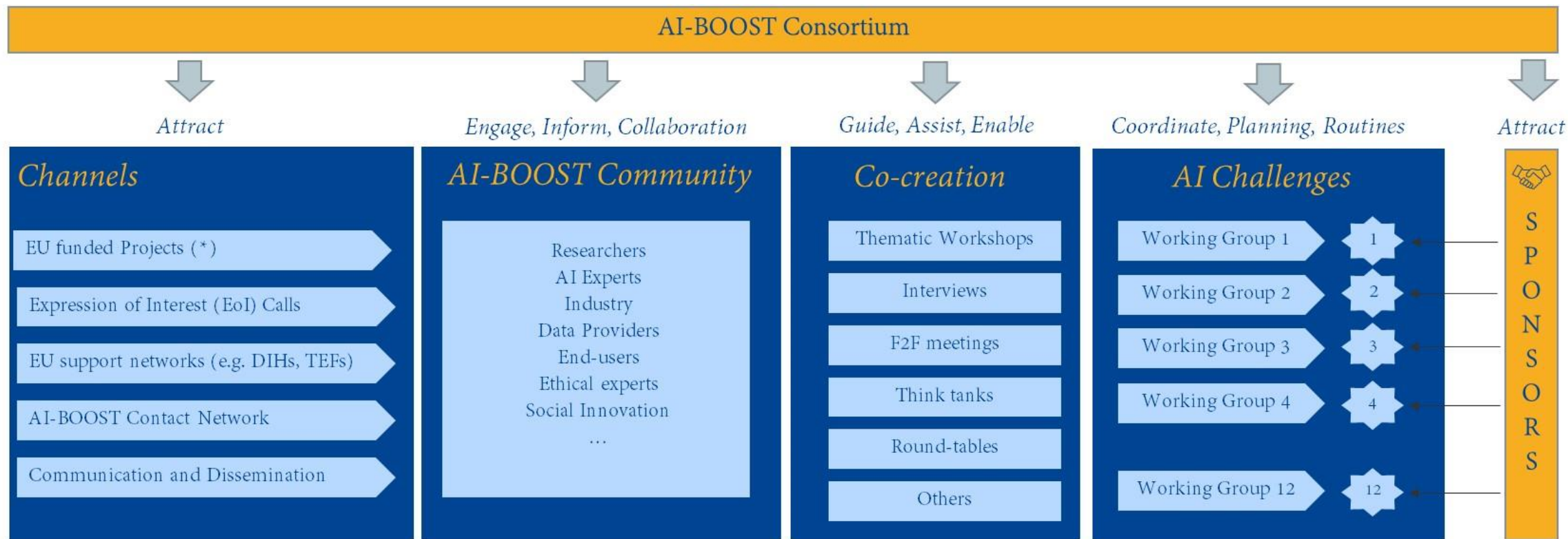We propose **joining forces** to identify and define the **key challenges in AI and generative AI**.

- Participate in any of the working group for each challenge.

- Participate in any of the workshops we will organize.

- Define problem statement and expected outcomes, etc.

- Innovation in AI requires diverse perspectives.

Funded by
the European Union

Opportunities for collaboration

We look forward ❤️ to partnering with

Opportunities for collaboration

AI-BOOST Consortium

Attract	Engage, Inform, Collaboration	Guide, Assist, Enable	Coordinate, Planning, Routines	Attract

Channels
- EU funded Projects (*)
- Expression of Interest (EoI) Calls
- EU support networks (e.g. DIHs, TEFs)
- AI-BOOST Contact Network
- Communication and Dissemination

AI-BOOST Community
- Researchers
- AI Experts
- Industry
- Data Providers
- End-users
- Ethical experts
- Social Innovation
- …

Co-creation
- Thematic Workshops
- Interviews
- F2F meetings
- Think tanks
- Round-tables
- Others

AI Challenges
- Working Group 1 — 1
- Working Group 2 — 2
- Working Group 3 — 3
- Working Group 4 — 4
- Working Group 12 — 12

SPONSORS

(*) CL4-2023-HUMAN-01-01, CL4-2023-HUMAN-01-03, CL4-2024-HUMAN-01-01 and CL4-2024-HUMAN-01-02

Open AI Challenge

Target sectors of AI-BOOST

Mobility

Internet and Media

Manufacturing

Energy

Health

Others

Opportunities for Applicants

Academia and Industry

- Real–World Problem Solving:

- Monetary Prizes

- Non–Monetary prizes (e.g., Computing resources, mobility programmes, paper publication, etc.)

- Interaction with Industry Experts

- Networking with Other Talents

- Access to Recruiters and Job Opportunities

- Building a Relevant Portfolio and Improving Professional Profiles

- Access to Specialised Data and Tools

Opportunities for Sponsors

Image by Tânia Mousinho on Unplash

Opportunities for Sponsors

Accelerate business problems solving and new business opportunities;

Have access to innovative ideas and solutions

Access to top-level talented scientific and researchers in the field of AI

Unique opportunities to engage and networking with experts in the field (strategic alliances are expected)

Increased brand visibility

Promotion of products and services

Opportunities for Sponsors

ECOSYSTEM COMMUNITY

Invitation to **one-to-one meetings with winners** in an ad–hoc workshop

Access to **participants information and progress reports**

Access to one of the **top ecosystems for generative AI**

AI INNOVATION

Define your **use case** for the problem statement

Mentoring throughout the challenge

Participation in the **selection of winners**

Access to innovative ideas and solutions

BRAND VISIBILITY

Brand visibility during the entire competition in web and events

Promotion of products and services through social media channels

Production of a **dedicated video**

Access, stand and speech at workshop during live event

Round 1

Exploring AI Open Innovation Competitions

Funded by
the European Union

Round 1 - Mobility - Potential ideas

Would you like to sponsor?

Partnership with

AI4 REALNET

Current Budget Prize

170.000€

Resilient real-time resource allocation under uncertainty

The aim is to establish interaction patterns that allow human railway dispatchers to interact productively with AI models that assist the dispatcher in real–time train dispatching

The Train Rescheduling Problem arises when a previously assigned train trip is disrupted due to unforeseen events such as traffic accidents, medical emergencies, or mechanical breakdowns. This situation demands the effective and efficient rescheduling of train trips to minimize delays, optimize the utilization of available trains, and maintain overall service quality. The challenge involves devising a strategy to reassign trains and adjust schedules while balancing operational constraints, ensuring minimal disruption to passengers, and maintaining adherence to safety and regulatory requirements

AI-BOOST
Delivering the next level of European
AI Open competitions

Would you like to sponsor?

Partnership with

Current Budget Prize

170.000€

Predictive maintenance in electrical transmission networks

To design robust and adaptable algorithms for predictive maintenance in electrical transmission networks, aimed at providing more accurate and timely analyses to enable informed decision-making. By enhancing the precision of these algorithms, the goal is to increase the reliability, efficiency, and safety of the network

Critical infrastructures like electrical transmission networks, still rely on legacy equipment that is not equipped nor can be retrofitted with modern sensors providing the large amount of data that provide the basis for standard predictive maintenance analysis. Adopting virtual sensors (also known as soft sensors or inferential sensors) is an interesting solution in situations like this. They use mathematical models to estimate variables that would typically require physical sensors, by correlating them with other more easily measurable parameters

Funded by
the European Union

Round 3 - Internet and Media

Would you like to sponsor?

Partnership with

Current Budget Prize

170.000€
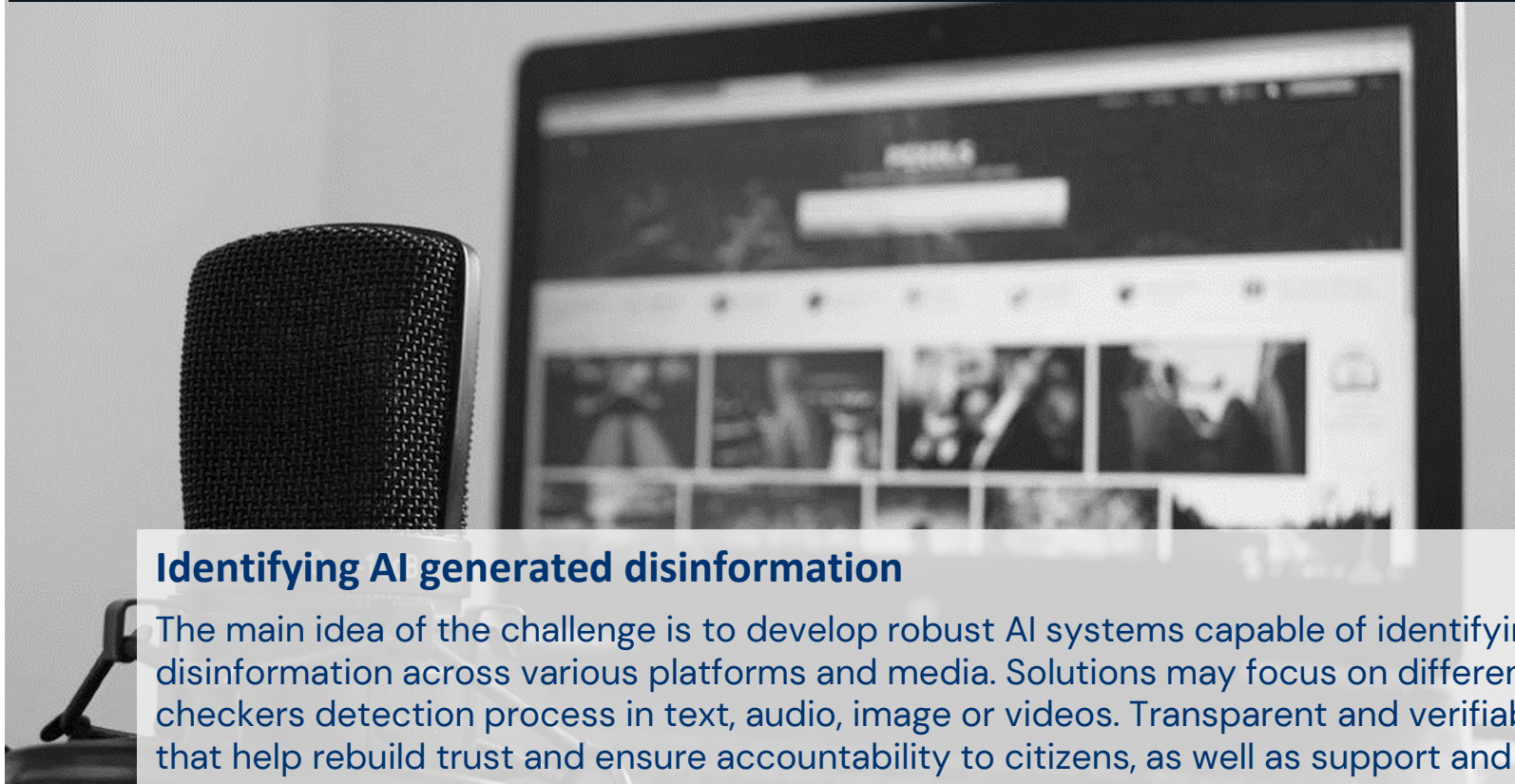
Identifying AI generated disinformation

The main idea of the challenge is to develop robust AI systems capable of identifying AI generated disinformation across various platforms and media. Solutions may focus on different phases of the fact-checkers detection process in text, audio, image or videos. Transparent and verifiable AI tools are sought that help rebuild trust and ensure accountability to citizens, as well as support and assist detection fact checkers agencies. The challenge emphasizes the need for AI models that not only detect disinformation, but also offer transparent and verifiable information, sources, links and different elements that give insights on how the content was manipulated, fostering trust at different stages and for different formats.

Open AI Challenge

Start of 1st round of competitions

February – March 2025

Open AI Challenges

Initial Competition Scheme

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the European Union

Open AI Challenge
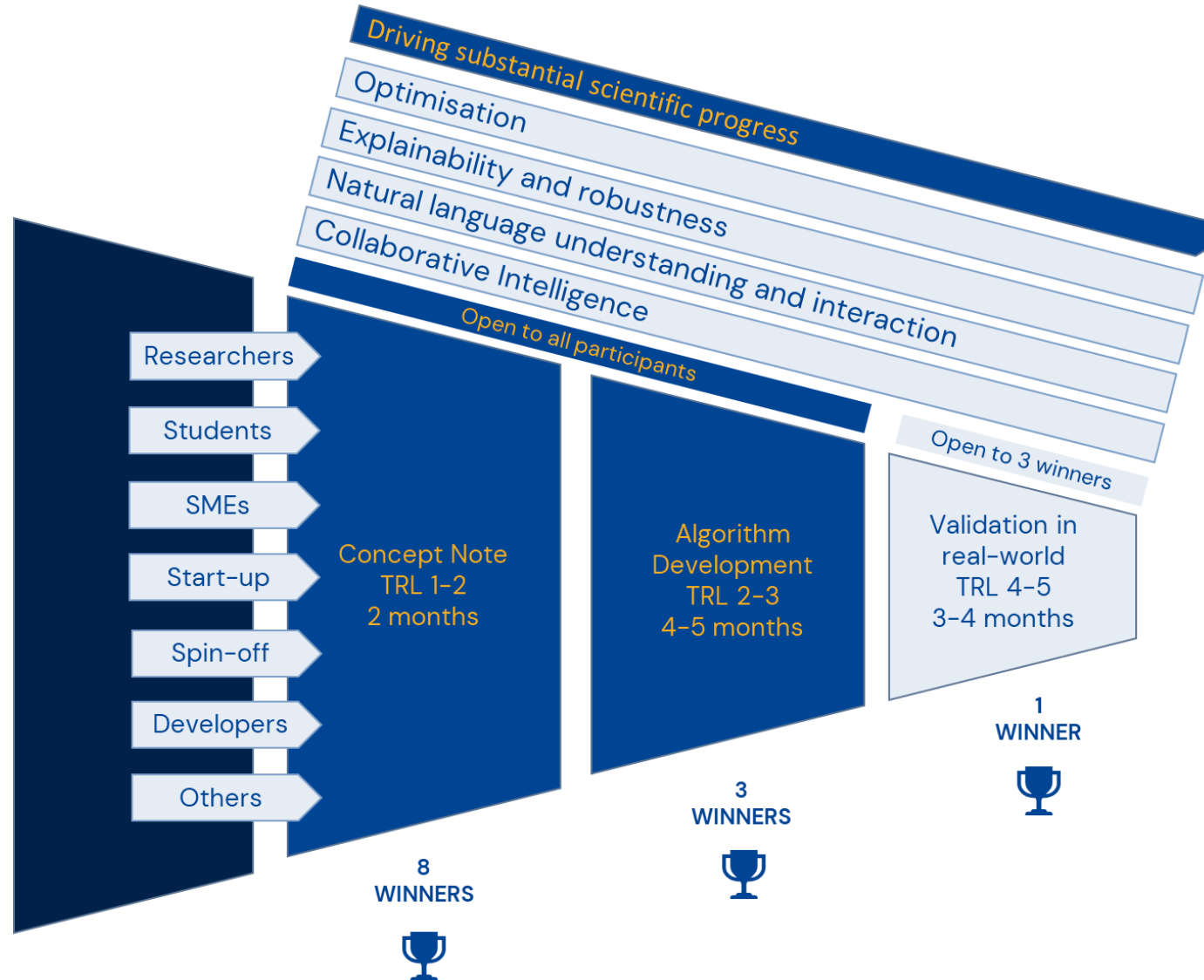
Thank you!

Susana Garayoa

Blanca Rodríguez

Jaume Cot

Miriam Miranda

Sara López

Leyre Ansorena

Thank you

www.aiboost-project.eu

Contact us: info@aiboost-project.eu

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