

ERDF REGIONAL PROGRAMME 21/27 AND 2ZERO PARTNERSHIP: ALIGNMENT OF FUNDS

GIULIANA FENU
Head of Directorate Regional System's
Competitiveness





The cooperation working arrangement

PURPOSE OF THE CWA (ART. 2.1):

Establishing a strategic cooperation on “Towards zero emission road transport” aimed at maximising synergies between Piemonte Region, European Commission and EGVI for 2Zero and specifically between the regional Funds managed by the Regione Piemonte and the 2ZERO Work Programmes.

This is in the interest of aligning regional objectives, R&I priorities, R&I topics and resources to contribute to the objectives of 2ZERO as well as to the implementation of the SRIA (strategic research and innovation agenda)

PURPOSE OF THE CWA (ART. 2.2):

The CWA aims at seeking potential possibilities for parallel and sequential funding from relevant activities and programmes at European, national, and regional level in particular those supporting the deployment and uptake of innovative solutions



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SCOPE OF COOPERATION (ART. 3.1):

Regione Piemonte is interested to technically align their regional R&I programmes, investments and expenditures from the regional Funds with the 2ZERO Work Programmes and its overall objectives, as stated in the 2ZERO SRIA (“2ZERO Objectives”)

SCOPE OF COOPERATION (ART. 3.2):

the European Commission intends to underpin the synergy’s mechanisms envisaged in the ERDF and in the N/R Fund that enable interested Regions/MS to build synergies and complementarities with Horizon Europe and to establish operational cooperation by realising synergies and maximising leverage and impact in the use of public funding



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MECHANISMS OF COOPERATION:

Technical alignment between Regional Smart Specialization Strategy and Strategic Research and Innovation Agenda.

This alignment is a key step in order to focus regional calls on 2zero topics

REGIONAL SMART
SPECIALIZATION STRATEGY

First alignment on 2024

Check on the 2Zero goals with S3 field of specialization "Sustainable Mobility"

2nd alignment 2025

Mid term S3 update: checking for the possible need for the realignment with 2Zero





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MECHANISMS OF COOPERATION:

Inclusion in regional calls for proposals to support R&D projects of rewards for proposals consistent with the 2Zero areas

“SWICH” - Call for R&D Projects consistent with 2Zero

I Call 2023

5 projects aligned with funded; 12 enterprises zero and 1 university involved; 6,5 M€ grant; 13,5 M€ of investments

II Call 2024 – REWARDING FOR 2ZERO

12 projects aligned with 2zero funded; 26 enterprises and 1 university involved; 9,5 M€ grant; 19 M€ of investments

NEXT CALLS WITH REWARDS FOR 2ZERO ALIGNEMENT

R&D CALL

June 2026

80 M€

Call for supporting innovative start up

May 2026

10 M€



SWICH - Call for Supporting of the whole innovation value chain

SUPPORT FOR RESEARCH, DEVELOPMENT, INNOVATION ACTIVITIES AND THE INDUSTRIALIZATION PHASES OF THE RELATED RESULTS FUNCTIONAL TO THE ACCELERATION OF PRODUCTION/MARKETING

- **Two lines** of intervention with different goals and four different eligible project categories (for a total of **4 project categories**);
- **more calls for proposal with dedicated financial resources (up to now 2: in 2023 and 2024)**
- **grant up to 60% of eligible expenditure**

PURPOSE

The measure has two goals:

Line 1 – Support for industrial research and experimental development activities

Line 2 - Support for industrial research, experimental development, and advanced-stage innovation activities with a defined plan for the industrial/commercial exploitation of the results.

ELIGIBLE BENEFICIARIES

- SMEs
- large companies (in collaboration only) including mid-caps
- small-mid caps
- research organizations (in collaboration only)

REWARDS FOR PROJECTS ALIGNED WITH 2ZERO

Maximum number of applications that can be submitted increased from 2 to 4

Score bonus in merit assessment

Call for supporting innovative start up

The Call supports the implementation of innovative entrepreneurial projects supporting business plans presented by innovative Piedmontese start-up, through a non-repayable grant.

Reg. (UE) 651/2014 **art. 22**

- basic contribution: 50%
- 10% increase in case of:
 - 1) demonstrable procurement of resources from external investors
 - 2) settlement in Piedmont

PURPOSE

- Support for the **early growth** stages of innovative startups
- Support for the **competitive** positioning of innovative entrepreneurial **business plans** resulting from the **team's original work**
- Incentive to raise resources from **external investors**
- **Attracting new startups** to the Piedmont region: 10% increase of contribution

ELIGIBLE BENEFICIARIES

INNOVATIVE START-UP:

- already established
- registered in the **Special Section of the Chamber of Commerce's Business Register** for no more than 30 months (from the date of publication of the tender)
- in line with the **requirements to be considered an innovative startup** (art. 25 D.L. n. 179/2012 e s.m.i.)

TARGET PROJECTS

- in line with the regional **Smart Specialization Strategy**
- with a business plan **between €100,000 and €300,000**
- **maximum duration of 18 months**
- local unit active **in Piedmont** (or to be established by the date of granting the contribution)

FOCUS ON FUNDED R&D PROJECTS ALIGNED WITH 2ZERO SRIA



THE FUNDED PROJECTS: TECHNOLOGY AND COMPONENTS FOR ALTERNATIVE PROPULSION

7 PROJECTS

14 COMPANIES INVOLVED

8 M€ INVESTMENTS

4 M€ GRANTS

TOPICS

Development of a robust monitoring, management and optimization system for fuel cell and battery-powered systems;

Complete solution for an electric propulsion system that can be easily configured and quickly integrated into new or existing vehicles in various fields of use such as urban mobility, agriculture, construction, municipal services;

Study, design and development of a modular, scalable, integrable platform capable of driving any new generation engine, for applications from low to medium power up to light commercial vehicles, in the field of electric mobility;

EM modeling and simulation methodology for virtual prototyping of electrical devices, with particular reference to mobility systems;

development of an intelligent battery pack with an innovative monitoring system, which through a network of sensors and algorithms allows the estimation of critical parameters such as state of charge, health and residual life;



THE FUNDED PROJECTS: DEVELOPMENT OF EV BASED MOBILITY INFRASTRUCTURE

2 PROJECTS

8 COMPANIES INVOLVED

5,7 M€ INVESTMENTS

2,6 M€ GRANTS

TOPICS

Development of an advanced battery energy storage system (BESS) supported by artificial intelligence (AI), to address the challenges of electrification and energy transition;

Reduction and optimization of battery charging times

THE FUNDED PROJECTS: TECHNOLOGIES FOR CONNECTIVITY AND DATA AND INFRASTRUCTURE MANAGEMENT (SMART AND CONNECTED TRANSPORT)

2 PROJECTS

6 COMPANIES INVOLVED

6,5 M€ INVESTMENTS

3 M€ GRANTS

TOPICS

Development of an innovative technological ecosystem for the safety, efficiency, and sustainability of urban micromobility;

system for optimizing data on traffic forecasts, environmental conditions, available services, vehicle conditions

THE FUNDED PROJECTS: MANAGING AND OPTIMISING DEMAND FOR SUSTAINABLE, SAFE, INTERMODAL, SHARED AND ALTERNATIVE MOBILITY

2 PROJECTS

2 COMPANIES INVOLVED

2 M€ INVESTMENTS

1,25 M€ GRANTS

TOPICS

development of an advanced intermodal travel planning system that integrates different transport modes (taxis, public transport, trains, car sharing, bike sharing, scooters and parking), to facilitate more sustainable, efficient and intermodal mobility;

development of a parking monitoring system to reduce emissions;

THE FUNDED PROJECTS: CYBERSECURITY FOR CONNECTED VEHICLES

2 PROJECTS

4 COMPANIES INVOLVED

1,5 M€ INVESTMENTS

0,7 M€ GRANTS

TOPICS

Creating an integrated vehicle protection ecosystem through AI and machine learning;

development of advanced technology for safe mobility, focused on the protection of location data through electronic devices installed on vehicles

THE FUNDED PROJECTS: DESIGN AND IMPLEMENTATION OF NEW MOBILITY SYSTEMS AND SOLUTIONS FOR PEOPLE AND GOODS

1 PROJECTS

4 COMPANIES INVOLVED

3,8 M€ INVESTMENTS

2 M€ GRANTS

TOPICS

Creation of a pre-series of autonomous robotaxis for personal mobility, single or double seat, aimed at moving people in pedestrian areas, indoors or outdoors

THE FUNDED PROJECTS: LCA-BASED AND CIRCULAR ECONOMY APPROACHES FOR SUSTAINABLE AND INNOVATIVE ROAD MOBILITY SOLUTIONS

1 PROJECTS

2 COMPANIES INVOLVED

0,65 M€ INVESTMENTS

0,35 M€ GRANTS

TOPICS

development of an innovative software application for the LCA Life Cycle Assessment analysis of complex products, automating data collection and organization



L'Europa investe sul Piemonte, il Piemonte investe su di te