

# " RAISE - ROBOTICS AND AI FOR SOCIO-ECONOMIC EMPOWERMENT"

HUMANISTIC CULTURE AND  
CULTURAL HERITAGE AS  
LABORATORIES OF INNOVATION AND  
CREATIVITY



## TARGET:

Within the context presented in Section 1, the activities of RAISE are articulated in thematic applications focused on domains and themes that build upon scientific and industrial vocations of a specific area while addressing specific economic and social innovation needs. The organisational structure of the ecosystem was designed to build upon these premises, as shown in the following figure.

The synergic and cross-sectoral policy carried out by the ecosystem has been declined with the aim of resolving some of the criticalities that the PNRR intends to overcome to create the conditions "for the development of a knowledge-intensive, competitive and resilient economy", with particular reference to about the mismatch between education and labour demand, to the low number of researchers and loss of talent and to the reduced demand for innovation, and to the limited integration of research results in the productive system. Based on and consistent with the above-mentioned objectives, RAISE is located and rooted in the Ligurian region, where it finds its motivations (as described in the context analysis in Section 1) in terms of: choice of technological focus, application verticals and actions to be undertaken. The objective of RAISE is focused on the satisfaction of the demand for innovation, the strengthening of collaborations and the contamination between research and enterprise, the attraction of young people, the response to the main needs/critical issues of the territory (from remote assistance, to land protection, to sustainable development of ports, to the quality of life in urban environments) and the approach of the general public to the understanding and deepening of research and technology issues and issues of considerable social and economic impact, enhancing the multidisciplinary approach. The specific alliance (components of the HUB, SPOKEs and affiliates of the SPOKEs described in the following section) responds to the need to achieve the objectives outlined above, creating a balance between research organizations, businesses, local authorities capable of addressing and expressing needs, IRCCSs (Scientific Institute for Research, Hospitalization and Healthcare), structures dedicated to technology transfer and to the development of social sustainability projects, institutions with deep experience in the dissemination of scientific culture and public engagement.

## SECTION PARTNERS

TOTAL NO. OF PARTNERS: 25

Proposer: Università di Genova

Participants

PUBLIC SUBJECTS

Research Institutes

- Consiglio Nazionale delle Ricerche
  - Ospedale Policlinico San Martino
  - Istituto Nazionale di Fisica Nucleare
  - Istituto Nazionale di Geofisica e Vulcanologia
  - Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Economico Sostenibile
  - Ente Ospedaliero Ospedali Galliera
  - Ospedale Giannina Gaslini
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PRIVATE ACTORS:

Research Organisations

- Istituto Italiano di Tecnologia
- Centro Internazionale in Monitoraggio Ambientale
- Fondazione Italiana Sclerosi Multipla Onlus
- Fondazione Don Carlo Gnocchi Onlus

Companies

- Aitek S.p.A.
- ETT S.p.A.
- Esaote S.p.A.
- Philips S.p.A.
- Associazione Festival della Scienza
- Ansaldo Energia S.p.A.
- Leonardo S.p.A.
- Engineering Ingegneria Informatica S.p.A.
- Circle S.p.A.
- algoWatt S.p.A.
- Fincantieri S.p.A.
- Movendo Technology S.r.l.
- Info Solution S.r.l.

SPOKE

**Spoke n. 1 - Urban technologies for inclusive engagement**

*Leader spoke:* Consiglio Nazionale delle Ricerche

*Spoke members:*

- Università di Genova
  - Istituto Italiano di Tecnologia
  - Engineering Ingegneria Informatica
  - ETT S.p.A.
  - Fondazione Don Carlo Gnocchi Onlus
  - Fondazione Italiana Sclerosi Multipla Onlus
  - Ente Ospedaliero Ospedali Galliera
  - Ospedale Giannina Gaslini
  - Ospedale Policlinico San Martino
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## Spoke n. 2 - Smart devices and technologies for personal and remote healthcare

*Leader spoke:* Istituto Italiano di Tecnologia

*Spoke members:*

- Università di Genova
- Istituto Italiano di Tecnologia
- Engineering Ingegneria Informatica
- Esaote S.p.A.
- Fondazione Don Carlo Gnocchi Onlus
- Fondazione Italiana Sclerosi Multipla Onlus
- Ente Ospedaliero Ospedali Galliera
- Ospedale Giannina Gaslini
- Ospedale Policlinico San Martino

## Spoke n. 3 - Sustainable environmental caring and protection technologies

*Leader spoke:* Consiglio Nazionale delle Ricerche

*Spoke members:*

- Università di Genova
- Istituto Italiano di Tecnologia
- algoWatt S.p.A.
- Ansaldo Energia S.p.A.
- Centro Internazionale in Monitoraggio Ambientale
- Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Economico Sostenibile
- ETT S.p.A.
- Info Solution S.r.l.
- Istituto Nazionale di Geofisica e Vulcanologia

## Spoke n. 4 - Smart and sustainable ports

*Leader spoke:* Università di Genova

*Spoke members:*

- Consiglio Nazionale delle Ricerche
  - Istituto Italiano di Tecnologia
  - Aitek S.p.A.
  - algoWatt S.p.A.
  - Circle S.p.A.
  - Engineering Ingegneria Informatica
  - Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Economico Sostenibile
  - Fincantieri S.p.A.
  - Istituto Nazionale di Fisica Nucleare
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- Leonardo S.p.A.

### Spoke n. 5 - An engine for knowledge and technology transfer

*Leader spoke:* Istituto Italiano di Tecnologia

*Spoke members:*

- Università di Genova
- Consiglio Nazionale delle Ricerche
- Associazione Festival della Scienza
- ETT S.p.A.

### **FINANCIAL DATA** (by concession decree)

Total amount: € 117.646.645,14

MUR grant: € 109.949.673,33

Project calls: 20% of project amount

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