

Spanish company searching for AI-based tool for automatic tree inventory in cities to complete a project for Eurostars call

Summary

Profile type	Company's country	POD reference
Research & Development Request	Spain	RDRES20220701004
Profile status	Type of partnership	Targeted countries
PUBLISHED	Research and development cooperation agreement	• World
Contact Person	Term of validity	Last update
Javier Giménez Mañogil	1/7/2022 1/7/2023	07/01/2022

General Information

Short summary

A Spanish company is deeply specialized in architectural elements as Nature Based Solutions (NBS) to integrate nature and architecture. The company is searching for a partner to complete a project for Eurostars call. They are looking for a partner specialized in artificial intelligence and machine learning. The aim is to co-develop a tool to identify and classify trees in cities based on data from the internet.

Full description

- The project:

The project aims to develop a Machine Learning algorithm able to identify and classify trees in cities based on data from the internet. The modelling of the algorithm will allow the correct development of an AI software to perform low-cost tree inventories and the updating of existing catalogues in cities in an automated, reliable, viable and affordable way, reducing the economic and human resources needed. The main output of the project is an AI-based tool to automatize the performance of urban tree inventories in cities by using already existing data. The project has been already submitted on a previous call, but it wasn't selected. The company needs to find a new partner to reformulate the proposal.

- The partnership:

The company coordinating this project is deeply specialized in the integration of nature and architecture through the use of Nature-Based Solutions, mainly through the use of vertical gardens, green roofs, natural pools and landscaping projects. The construction systems used for these Nature-Based Solutions are all the result of our own

R+D+i. They are systems that have been developed, tested, reviewed and designed by the company from start to finish; so much so that it has 2 registered patents derived from these works.

- The programme:

Eurostars is a funding instrument that supports innovative SMEs and project partners (large companies, universities, research organisations and other types of organisations) by funding international collaborative R&D and innovation projects. By participating, organisations from 37 countries can access public funding for international collaborative R&D projects in all fields.

- Timescales:

- o Official deadline for the call: 15th September 2022.
- o Deadline for the EoI: 30th July 2022.
- o Anticipated duration of the project: 30 months.

- Estimated Project Budget: 700.000 €

Advantages and innovations

The development and commissioning of the proposed tool represent a change in the approach to inventory work. Indeed, the inventory will be carried out remotely, automatically, and using conventional computer equipment.

Stage of development

Sustainable Development goals

- **Goal 15: Life on Land**
- **Goal 11: Sustainable Cities and Communities**

IPR Status

No IPR applied

Partner Sought

Expected role of the partner

The company is looking for a SME specialized on business applications using the most advanced technology, specifically with competencies in Artificial Intelligence and machine learning services. Its role will be the co-development of the tool of the project proposal.

Type of partnership

Research and development cooperation agreement

Type and size of the partner

- **SME 50 - 249**
- **SME 11-49**
- **SME <=10**

Dissemination

Technology keywords

- **01003003 - Artificial Intelligence (AI)**

Targeted countries

- **World**

Market keywords

- **02007025 - Consulting services**
- **08004004 - Other pollution and recycling related**
- **02007022 - Software services**
- **09003005 - Consulting services**
- **09003001 - Engineering services**

Sector groups involved

- **Environment**
- **ICT Industry and Services**
- **Sustainable Construction**