SCOPE

I-Seed aims at developing a new generation of **self-deployable and biodegradable soft robots**, inspired by the morphology and dispersion abilities of **plant seeds**, to perform low-cost, environmentally responsible, in-situ detection of k**ey environmental parameters** in air and topsoil.

I-Seed

Towards New Frontiers for Distributed Environmental Monitoring Based on an Ecosystem of Plant Seed-like Soft Robots

SuperScienceMe
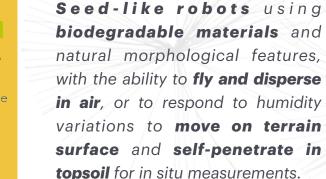ReSearch is your Re-Source

30 SETTEMBRE 2022
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OLYSEUS

Seed-like robots using **biodegradable materials** and natural morphological features, with the ability to **fly and disperse in air**, or to respond to humidity variations to **move on terrain surface** and **self-penetrate in topsoil** for in situ measurements.

The target parameters and pollutants will be **CO2**, **temperature**, **humidity**, *and* **mercury**. *I-Seed will build a radical new scenario for* **analyzing** *and* **monitoring air and top soil environments** *and their interface, extending environmental sensor networks and filling existing gaps of data analysis systems.*

FETPROACT-EIC-08-2020 Environmental Intelligence

Work program: FET Proactive – boosting emerging technologies
Grant Agreement: 101017940
Duration: 48 months
Start date: 01 Jan 2021
Request EU contribution: € 3997521,25
Website: https://iseedproject.eu/
CNR-IIA contact: Dr. Nicola Pirrone