



IoT Week 2019 Hackathon Form

United Nations Sustainability Development Goals
Grundfos Category and LSPs Category

ACTIVAGE CHALLENGE: What is the Related United Nations Sustainability Development Goal: United Nations SG-03

Short description about your proposed challenge and its background

Environmental conditions are of key importance for preserving human health and wellbeing and particularly in senior communities. Several indoor and outdoor environmental factors may act as allergens that can potentially affect and/or deteriorate their already frail senior health condition. We are looking for innovative ideas and implemented solution(s) promoting the maintenance of homeostatic equilibrium between human healthcare and wellbeing and the use of IoT technology for that purpose, particularly attention can be focus on addressing those senior people affected by chronic diseases like respiratory and cardiovascular and allergic conditions.

Potential Solution/Ideas (but not limited to)

- An environmental monitoring and sensing systems either in-doors and/or outdoors use giving information but not limited to temperature, relative humidity, atmosphere pressure, rain/drizzle forecast, air pollutants and pollution level, allergens, sun radiation and more.
- A personalized and non-intrusive system, preferably wearable, able to detect and inform about the levels of potential risks associated to environmental factors, and coach users on the best for risks avoidance, and protect them from any anticipated allergic reactions.

Available technologies (but not limited) for this challenge, you can also bring your own tools

- Any of the ACTIVAGE IoT Platforms (IoTivity, OpenIoT, sensNact, universAAL, Fiware, Sofia2)

https://git.activageproject.eu/Development/Support-Wiki_content/wiki#iot-platforms

- ACTIVAGE will host an instance of the official tools for hackathon participants.

https://git.activageproject.eu/Development/Support-Wiki_content/wiki#tools

Potential value beyond the hackathon; winner team in this challenge will benefit from the following

- Access to IoT NEXT Club, The Largest European network for SMEs.
- Be part of the ACTIVAGE ecosystem, composed by 49 organizations to find potential synergies.
- Be part of future innovative actions organize by ACTIVAGE consortium such webinars on best practices and future hackathons.

Prizes & Awards

The overall winner prize is 25,000.00 DKK. (3,350.00 Euro Approx.) in cash for the team that develop best innovative solution and an award from the winner category sponsor. Detailed instructions for the participation will be available at [IoT Week website](#).