

H2O project puts the human at the centre of wearable computing for smart cities and the IoT

A project under the EUREKA CATRENE programme

Paris, 15 May 2018. The CATRENE funding programme, managed by AENEAS, has exhibited the European H2O project at European Forum for Electronic Components and Systems, 5-7 December 2017, Brussels, Belgium. This multi-disciplinary collaboration aims to develop a human-centric secured architecture that will help people control, configure and interact with objects, particularly in the field of wearable computing and the Internet of Things (IoT).

The fast-growing IoT market has huge potential for the economy and for our everyday lives. But there are still many challenges in domains such as user experience, power management, and data transfer and security. The H2O program is a European framework that enables organisations and companies of all sizes to work together on developing solutions that address such challenges. This means both developing the necessary technological bricks to speed market access for IoT end solutions, and encouraging end-user adoption by putting humans in control of the smart objects in their environment.

Europe is particularly well-placed to create solutions for these challenges because its research institutes and companies form a rich ecosystem covering the complete value chain. The H2O project builds on previous European programmes, such as eGo, to deliver a technology platform and validate it in a range of scenarios. The platform will form the basis for smart wearable devices that are non-intrusive, secure, low-cost and 'always on' for IoT and smart city applications such as communication, transportation, e-health and e-retail. This 'always-on' capability will transform the way humans and objects interact. The wearable device will constantly adapt to the user who has access at all times within a fully secure environment.

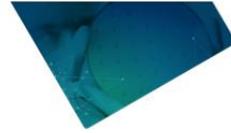


Smart Watches prototypes developed in the H2O project.

Each partner technology and contribution to the H2O project is detailed at www.h2o-project.eu.



PRESS RELEASE



About CATRENE programme managed by AENEAS

CATRENE is a EUREKA cluster created in 2008 and focused on micro and nanoelectronics research and innovation, which aims at achieving Technological Leadership for a competitive European ICT industry. It is based on the ambition of European countries, in partnership with European companies, to jointly deliver nano- and microelectronics solutions that respond to the needs of society at large, improve the economic prosperity of Europe and reinforce the ability of its industry to be at the forefront of the global competition.

After 7 years of operation, more than 8 calls and 39 complete and still running programmes, CATRENE projects involving SMEs, large corporations, research institutions and universities have, and are, demonstrating great impact on societal challenges while promoting European economic development in this vital area.

About CATRENE: <http://www.catrene.org>

About AENEAS: <https://aeneas-office.org>

About H2O project

H2O is an R&D&I project consortium involving 16 partners from 4 countries. The project partners are Gemalto (project leader), Astus, Beyond Vision, CEA LETI, CEA LIST, IDATE, IMA, IPCB, IT Aveiro, Insight SiP, IDEMIA, ST Microelectronics, Trusted Labs, Johnson Controls International, Tyndall, Worldline. National funding support is provided by France, Czech Republic, Ireland and Portugal.

About H2O: <http://www.h2o-project.eu>

About eGO: <http://www.ego-project.eu>