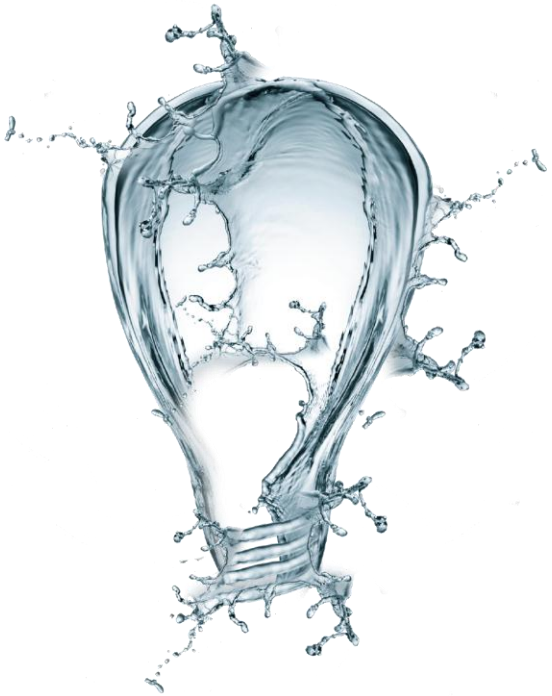
EIP CONFERENCE 2017 WATER

PORTO INNOVATION WEEK WATER | MAYORS & WATER CONFERENCE 2017 | WATER LAB EUROPE PORTO 2017 INNOVATION | WATER & PEOPLE

Ctrl + SWAN

EIP Water Action Group
Pooling resources – Innovating water

EIP Water Conference 2017



September 26th 2017, Porto

CTRL+SWAN Side meeting

"SMART WATER MONITORING: LOW-COST SENSORS SOLUTIONS FOR HIGH EFFICIENCY WATER MONITORING NETWORKS"

European Innovation Partnership on Water Action Group CTRL + SWAN

Cloud Technologies & ReaL time monitoring + Smart WAter Network

Anna Di Mauro

medhydro engineering & research

Communication person of EIP Ctrl+SWAN and Responsible of AG Secretariat (Med.Hydro s.r.l., Second University of Naples, Aversa, Italia)

European Innovation Partnerships (EIP)

European Innovation Partnerships (EIP) were born with the main purpose to initiate and promote collaborative processes for change and innovation in the different sectors across the public and private sector, non-governmental organizations and the general public and to contribute job creation and economic growth. **This is mainly done via the establishment of Action Groups.**

The European Innovation Partnership on Water (EIP Water in short) is an initiative within the EU 2020 Innovation Union.

The EIP Water implementation started in May 2013 but right now :

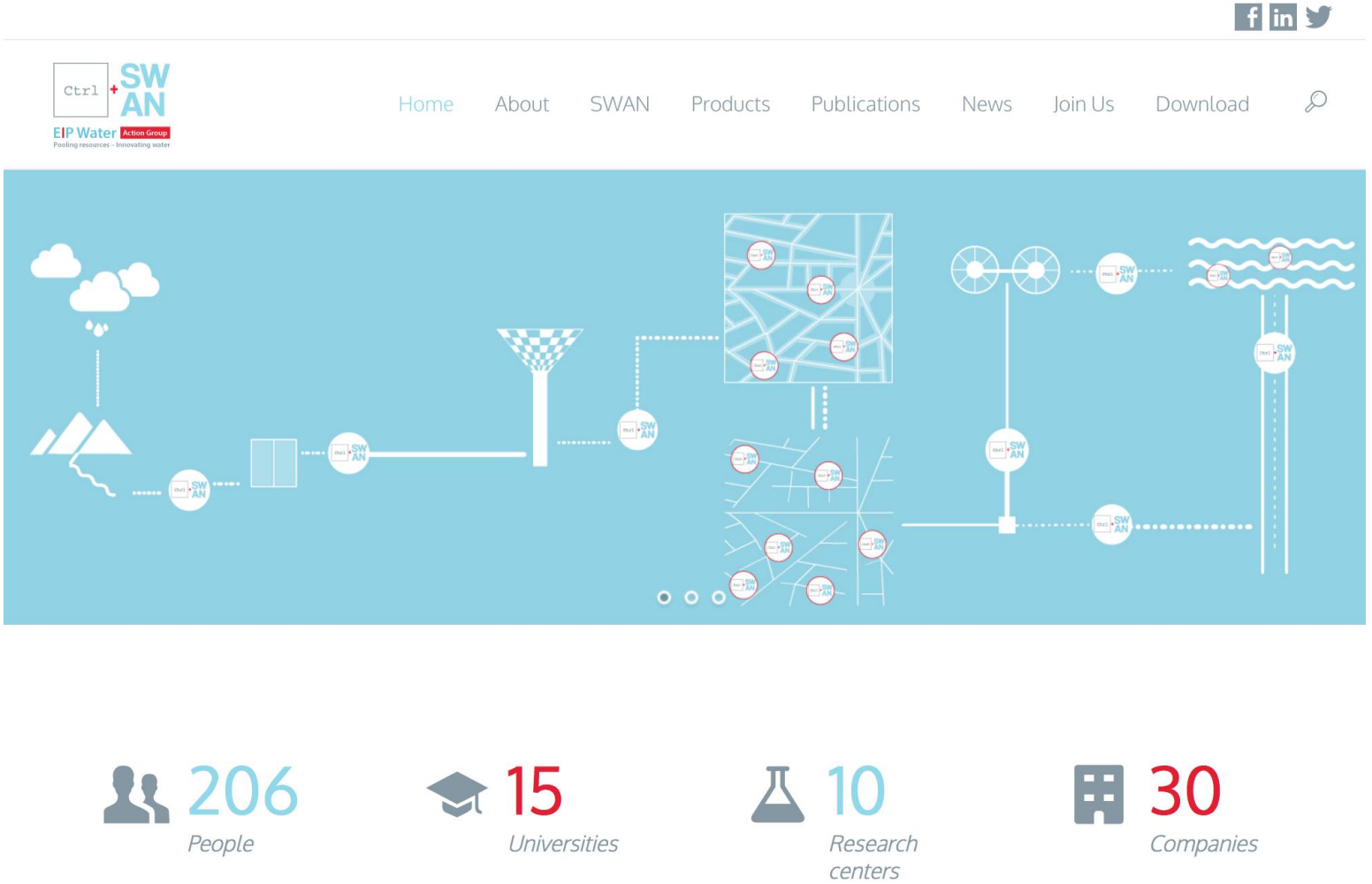
✓The EC does **not invite more new AGs**

✓The EC wants to **maximize** the outcomes and impact of the **current AGs** thought the work undertaken by the AG Group and by leveraging the projects of the individual AG members

✓There is **no statuary time limit for AGs**, AGs can continue working without deadline

CTRL + SWAN Cloud Technologies and ReaL time Monitoring + Smart WAter Network

CTRL+SWAN was founded in April 2014 (www.swan.technology)



CTRL + SWAN Members & Partners

Universities

✓Second University of Naples – Depertment of Civil Engineering, Design, Building and Environment

✓Second University of Naples - Department of Industrial and Information Engineering

✓University of Naples "Federico II" Department of Physics

✓University IbnTofail of Kenitra

✓University of Thessaly

✓University of Exeter

✓…

Research centers

✓BioMEMs

✓National Research Council (CNR) - Institute of Information Science and Technologies, Signal and Images Lab (ISTI)

✓National Research Council (CNR) - Institute for Electromagnetic Sensing of the Environment (IREA)

✓National Research Council (CNR) - Institute of Geosciences and Earth Resources (IGG)

✓The Mexican Institute of Water Technology

✓EURECAT

✓…

Companies

✓Aqua-Consult Ingenieros (A-CING)

✓Aqualia, gestión integral del agua

✓EURECAT

✓EdgeLab S.r.l.

✓Hach Lange

✓INFOSOLUTION S.p.A.

✓MED.HYDRO s.r.l.

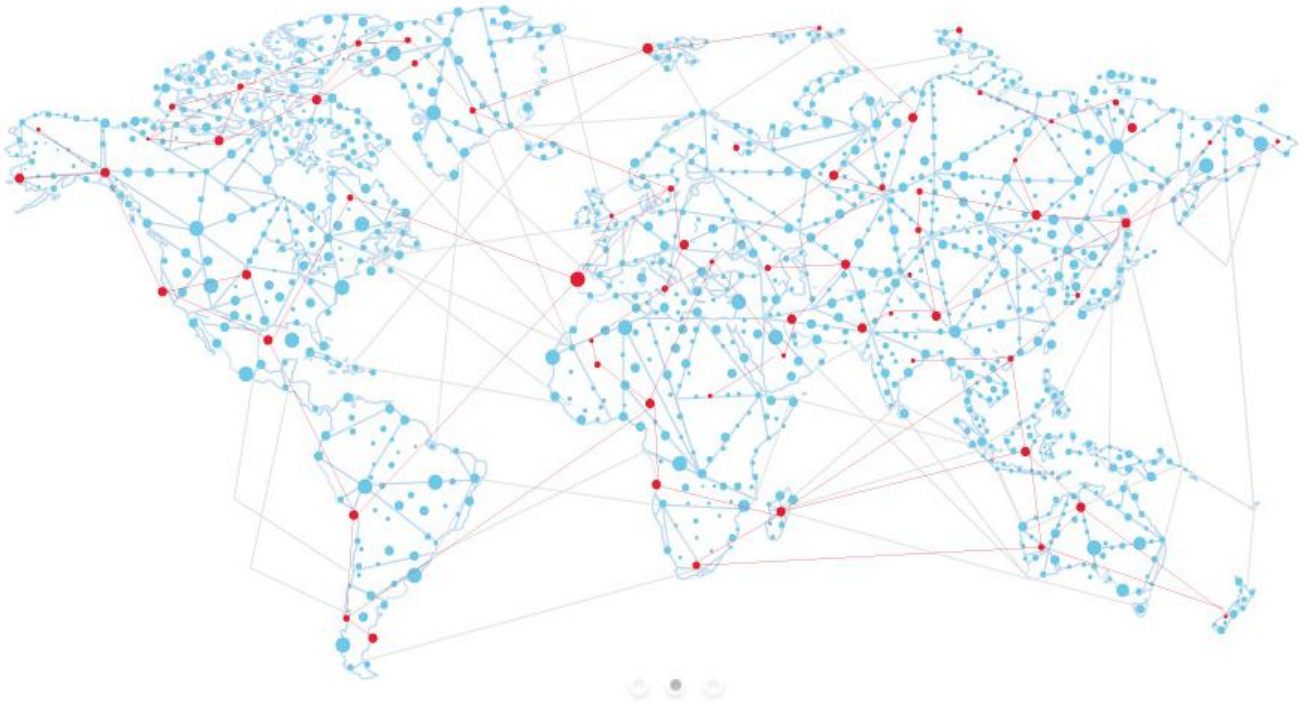
✓Novaetech s.r.l.

✓S:can s.r.l.

✓SENSUS ITALIA

✓SYSTEA - Systems Technology Advance SpA

✓…



CTRL + SWAN Mission

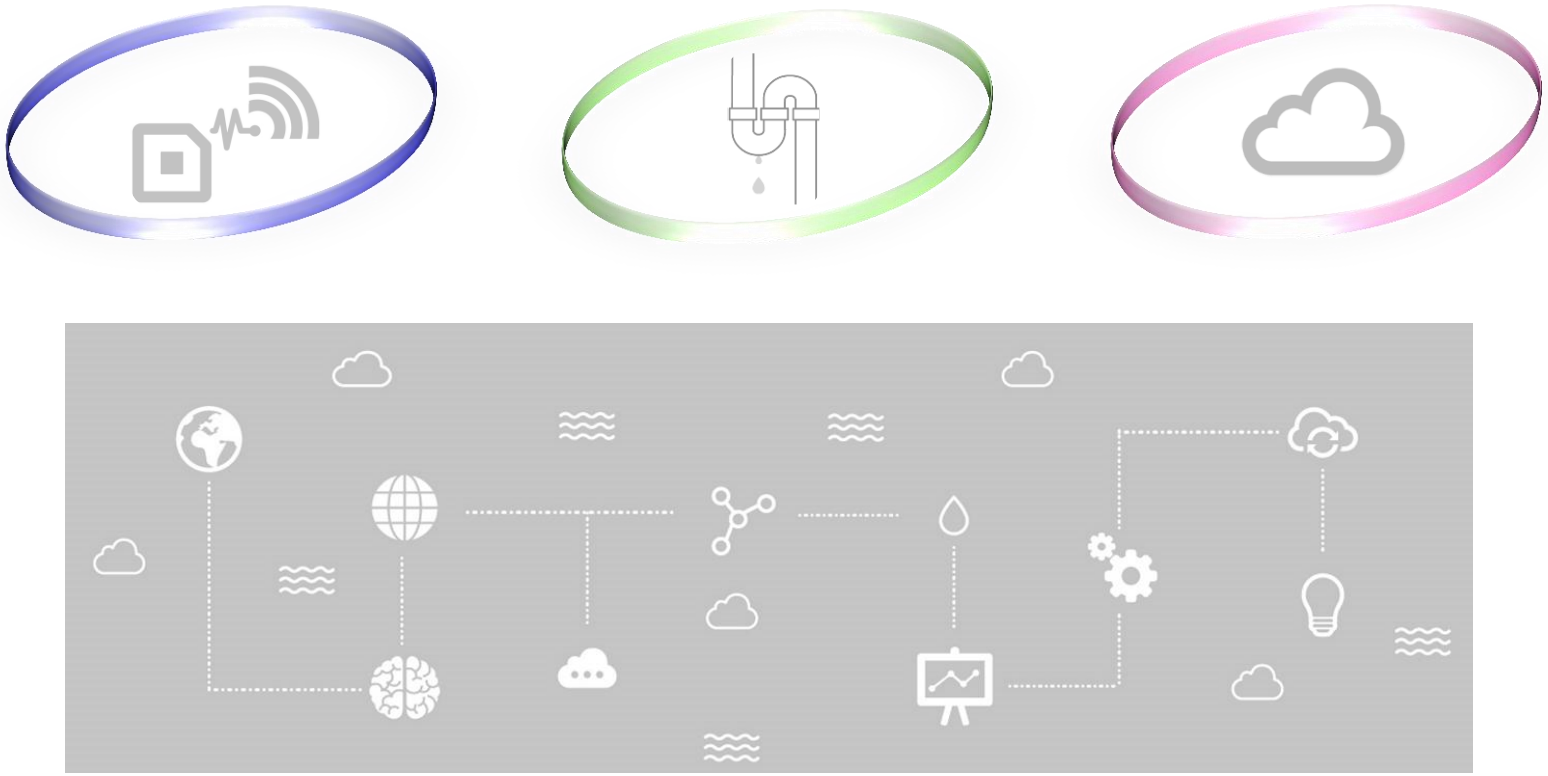
Action Group is devoted to the development of innovative sensor technologies to be integrated and implemented in the design of an innovative approach to the water distribution networks management, with the broaden goal to introduce the concept of **Smart WAter Network (SWAN)** as a key subsystem of the notion of **Smart City**, as it has been recently recognized in the scientific and technical international community.

CTRL + SWAN Objectives

Promote and develop **innovative smart sensors** to be placed on distribution network for online detection of microbiological and/or physical-chemical parameters

 # Design decision support systems to define optimal partitioning of SWAN to improve management and protection of water supply systems

Implementation of **smart platform** to collect and manage data from sensors in an early warning system based on **cloud technologies**. It will be based on multi-sourced and cloud data platforms including quality and quantity monitoring



CTRL + SWAN Work in progress

 # BAT (Best Available Technology) for Smart Water Network

Design of a website section on BAT for SWAN. The idea is to propose to EU and water operators, trough our web Platform, Best Available Technologies (BAT) already proposed for other engineering fields (i.e. remediation, etc.). The idea could become a novel approach to disseminate and implemet some results of many research in hydroinformatics (and not only).

 # Partecipation of the Action Group to the following Confernce:

HIC 2018 International Conference on Hydroinformatic, on 1-6 July 2018 Palermo, Italy

 # Partership:

Ict4Water Cluster, AQUALIA, Proteus Project, S:CAN, SYSTEA, etc…

 # Pilot site and/or testing prodcts:

Implementation of the software SWANP on Mexican and Spanish water networks

Testing of innovative online sensors on demo site and accademic lab.

 # Horizon 2020:

Examination of some HORIZON 2020 proposal to submit R&D projects.

CTRL + SWAN Strategy

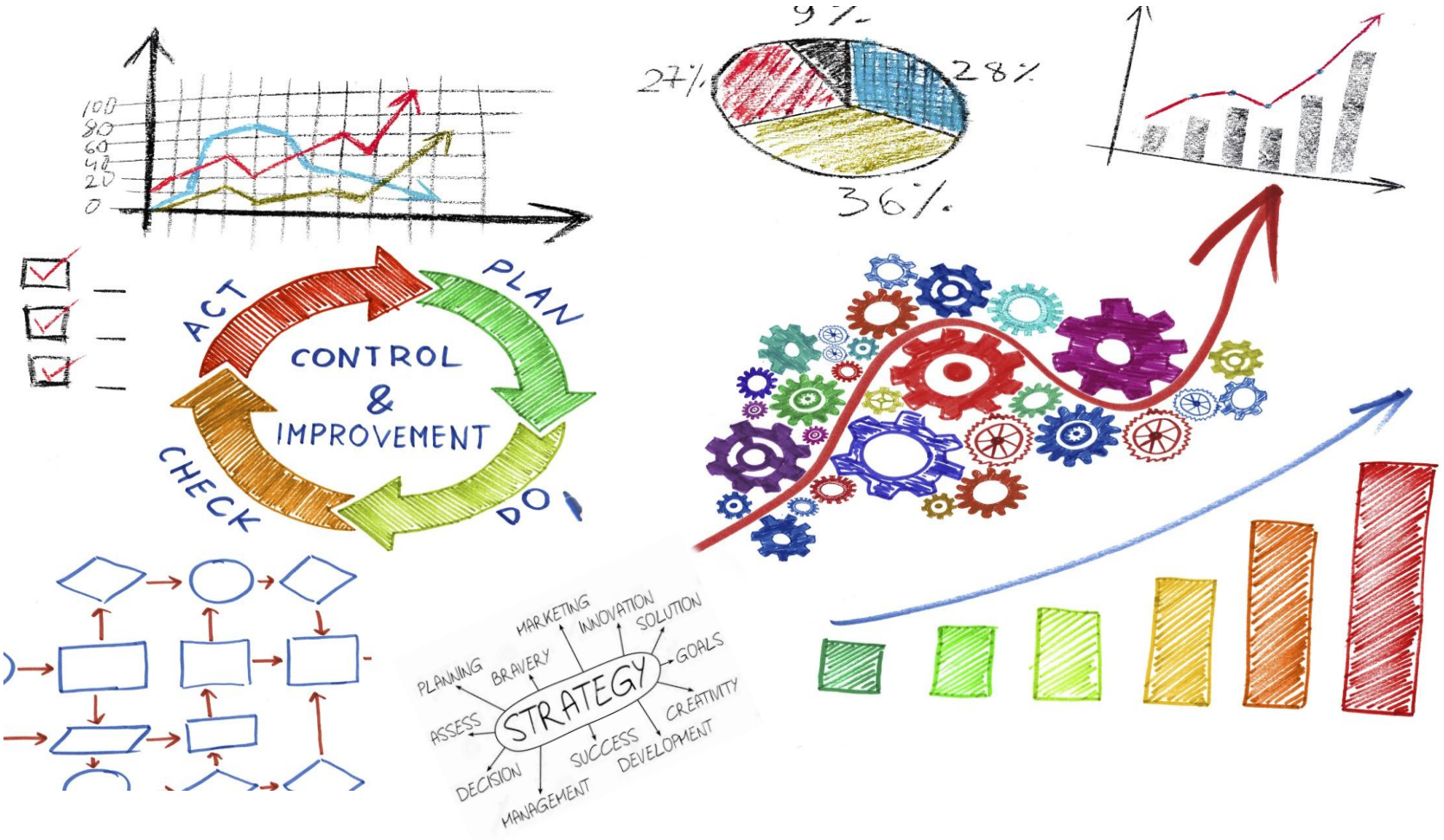
Strengthen current **relationships** and generate new ones

Looking for funds to partners through applications to **European calls (H2020)**

Design and optimize a really innovative interaction model that can represent a truly **best practice**

Design **road maps**

Transform R&D results into powerful engineered **products/services** and solutions



Visit our website

www.swan.technology

Join us

agctrlswan@gmail.com

Thank you for your attention