

imagine

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WaterLink 2017 An event that will stretch our imagination. Dare to dream, set a new course, chase new opportunities. Where would innovations come from when we stop using our imagination?

wateralliance

Save the Date! January 26th 2017 WTC Leeuwarden
Symposium WaterLink The Water Tech business event of the Water Alliance

WATERLINK 2017

January 26th 2017, Leewarden

SESSION 3

REAL TIME MONITORING AND SMART SENSORS FOR WATER QUALITY CONTROL

European Innovation Partnership on Water Action Group CTRL + SWAN

Cloud Technologies & Real time monitoring + Smart Water Network

Anna Di Mauro



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** through the work undertaken by the AG Group and by leveraging the projects of the individual AG members
- ✓There is **no statutory 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)



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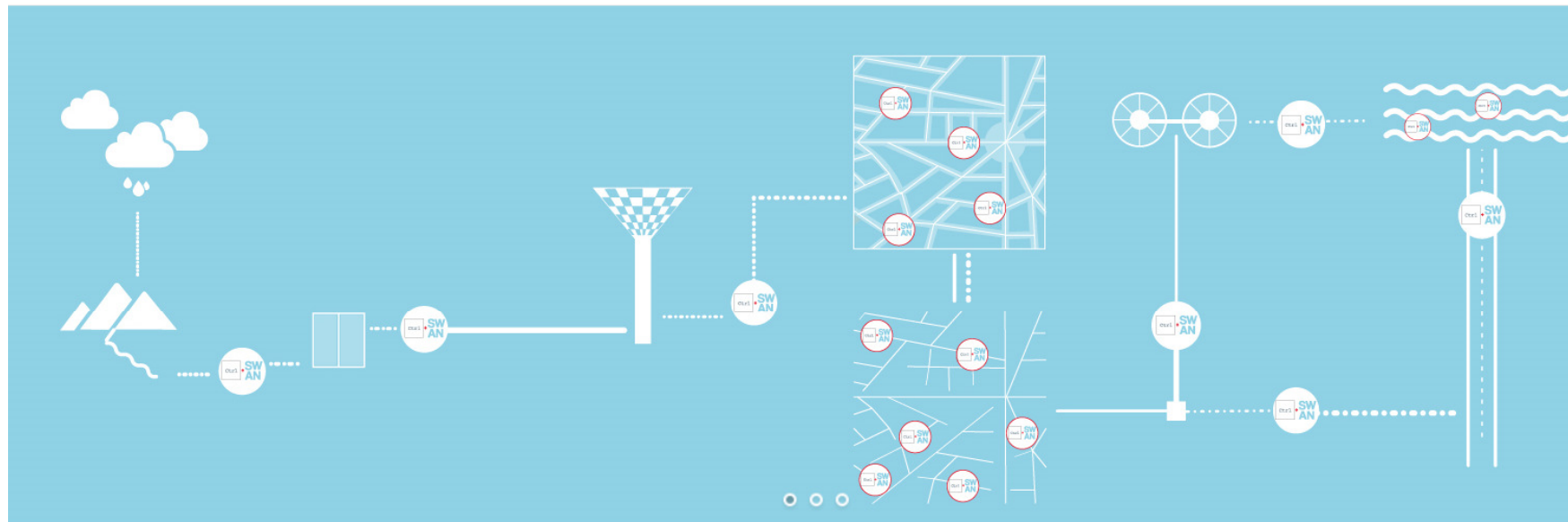
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 **44**
People

 **10**
Universities

 **5**
Research centers

 **18**
Companies

CTRL + SWAN Members & Partners

Universities (10)

- ✓ Second University of Naples – Department 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 (5)

- ✓ 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 (18)

- ✓ 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.
- ✓ Promete S.r.l. – CNR spin-off company
- ✓ SENSUS ITALIA
- ✓ SYSTEVA - 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 broader 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, through 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 implement some results of many research in hydroinformatics (and not only).



Participation of the Action Group to the following Conference:

EIP Annual Conference 2017, on 27-28 September 2017 in Porto, Portugal

Workshop in collaboration with ICT4Water Cluster and PROTEUS Project :

“Smart Water monitoring: What low-cost sensors solutions for high efficiency water monitoring networks”



Pilot site and/or testing products:

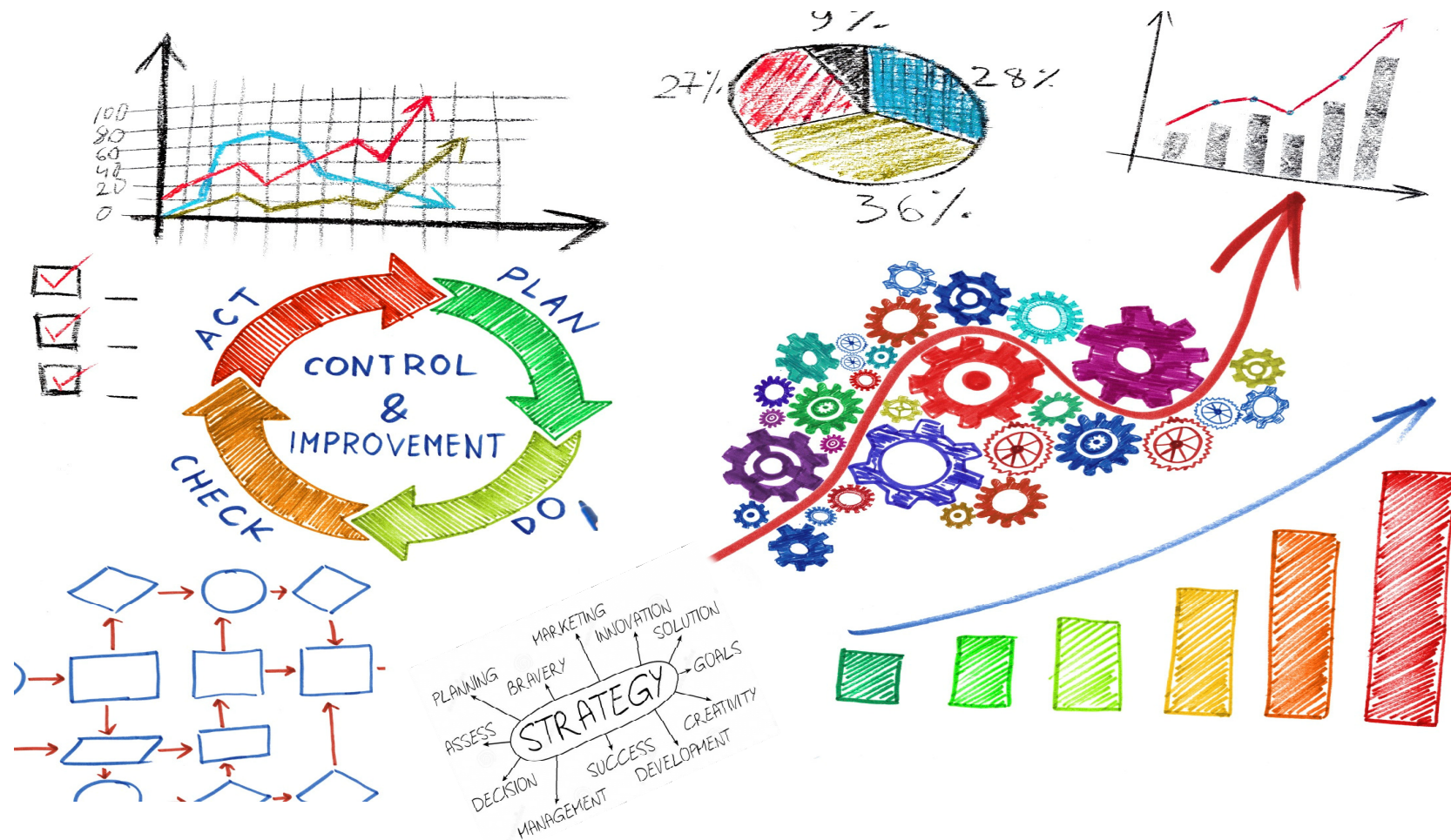
Implementation of the software SWANP on Mexican water networks of IMTA (Mexican Institute of Water Technology).



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





EIP Water Action Group
Pooling resources – Innovating water

Thank you for your attention

Visit our website

www.swan.technology

Join us

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