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# EVA MARTINEZ DIAZ: IT'S FATE THAT I LANDEI DIGITAL

# Embracing a digital water city

The writing was on the wall early in Eva Martinez Diaz's career that she would eventuland a role in the digital space.

After graduating as an agricultural engineering from the Polytechnic University of Val (Spain), she went on to gain a BSc (Hons) in Environment Sciences at Coventry Univ (UK) and MSc in Integrated Environmental Management at Nottingham Trent Univers (UK).

"Water utilities are supplying not only water but a holistic water service, avo pollution, reusing water and providing nutrients for further use."

It was during a new role at IBM that she saw it as "signal from the fate of a future dig She was tasked with helping to implement new software in Spain then abroad at diffe European branches.

After two years in Germany at Ttz Bremerhaven where she coordinated several environmental research projects, Martinez made her way back to her home nation of Leading and conducting business with public and private entities in the field of water management, information technologies, environment and sustainability, she started v for aqualia.

Today she is the smart services manager at the innovation and technology departme Below is a sample of an interview conducted with Aquatech Global Events.

## When did you first come across 'smart water'?

**Eva Martinez Diaz, smart services manager at the innovation and technology department, Aqualia (EM):** During the early stages with aqualia I was working in the City of Santander (Spain) being one of the pioneers of implementing a Smart Water μ smart cities. It was clear the potential of combining innovation and digital technologie so my position was created. I am responsible for the Smart Services, taking part in the assessment of state of the art of smart technologies, implementing, evaluating and optimizing them within the integral water cycle through international R&D projects.

You're involved in the Digital Water City, H2020 initiative. How we you describe a Digital Water City?

**EM:** It is my pleasure to be part of the Expert Advisory Board of the H2020 Digital Watogether with representatives from IBM, SIEMENS; EurEau, IWA, Centre for Researc Environment and Health and Franhoufer Institute.

This board, and the DWC consortium, represents to a large extent the different element Digital Water City, including research centres, utilities, solution providers, open assoc comprising all relevant stakeholders from both the private and public sector, and the the citizens.

The concept of digital water city entails improving every part of the water cycle througuse of technology, data and intelligence. It constitutes the digital framework needed to the main objective: a smart water ecosystem that is carbon free and sustainable. The ambition is to ensure water quality and reduce freshwater and energy use, in line with concept of a resilient circular economy and involving all relevant stakeholders, increase awareness on the true value of water.

The link to a circular economy, including energy and sustainabilit very on point. What are the ambitions for this project?

**EM:** The project is very ambitious, creating linkages between the digital and the phys world demonstrating advanced digital solutions for different purposes. The case stud include to optimise investments and operational costs, improve infrastructure perforn reduce flooding, achieve safe water reuse for agricultural irrigation, improve bathing quality and foster public involvement, to name a few.

Moreover, the solutions are implemented at five cities at large scale allowing the assorthe digital solutions, opening new markets for technology providers.

That is highly ambitious, including multiple stakeholders. Can yo name the five cities involved?

EM: Berlin, Paris, Sofia, Ccpenhagen and Milan.

Impressive line-up. More widely speaking, which successful projereally stand out to you when it comes to digitalisation and why?

**EM:** I am driven myself to those projects that entail a real change on the business as either because they are riskier and this implies a commitment and engagement with operators and stakeholders to be successful, or because they create added value an markets.

As an example, one of the projects I am directly involved in and coordinated by Aqua H2020 Run4Life project. In Run4Life the idea is to not depend on large infrastructure instead rely on decentralized water services. This is based on source-separated colledomestic wastewaters and kitchen waste, catering for the needs of water treatment communities and neighbourhoods, with each flow receiving optimal treatment for reservoir y and subsequent safe reuse.

For that, it is essential to monitor and control inflows and outflows of many plants and treatments in a centralized way, facilitating decision making and operation, predicting possible adverse events, reducing risks and ensuring human health.

The Run4Life concept aligns very well with the idea of utilities being technology provable to control, monitor and automate the water treatment as well as service provider are supplying not only water but a holistic water service, avoiding pollution, reusing wand providing nutrients for further use.

What continues to be the biggest hurdles to water utility adoptio digital solutions?

**EM:** Water is a local issue, and so the business case or return on investment on the deployment of a digital solution has to be analysed at each location. Having said that believe in this analysis it is important to think of total expenditure rather than only cap (capitals costs) or Opex (operational costs), plus take into account environmental analysis.

There are other matters preventing a massive deployment and adoption of digital sol such as the maturity of the technologies, the lack of standards, cybersecurity and data privacy issues. Last but not least, one of the biggest barriers can be the internal adopnew ways of working within the culture of a company.

You're on the Advisory Board for the upcoming Innovation Forur also chairing the session: Digital water: developments, disruptior risk. What are you most looking forward to at the event?

**EM:** From the beginning this innovation forum has been conceived as being highly interactive, engaging and μ\* actical. This creates a great environment to !::arn and ex

ideas, share and discuss approaches. My session gathers different perspectives on convater implementation from public and private utilities and solution providers from Spand Germany. I have a top-level session with people willing to change traditional methodologies, adopt new approaches and take risks...an inspiring debate is guaranteed.

- Eva Martinez Diaz will be among 40 of the water sector's top speakers and thought leaders take the first Aquatech Innovation Forum on November 4, with the tagline: Mastering Water's Digital Transformation. More information can be found here: https://www.aquatechtrade.com/innovation-forum/)

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