



LABORATÓRIO NACIONAL  
DE ENGENHARIA CIVIL

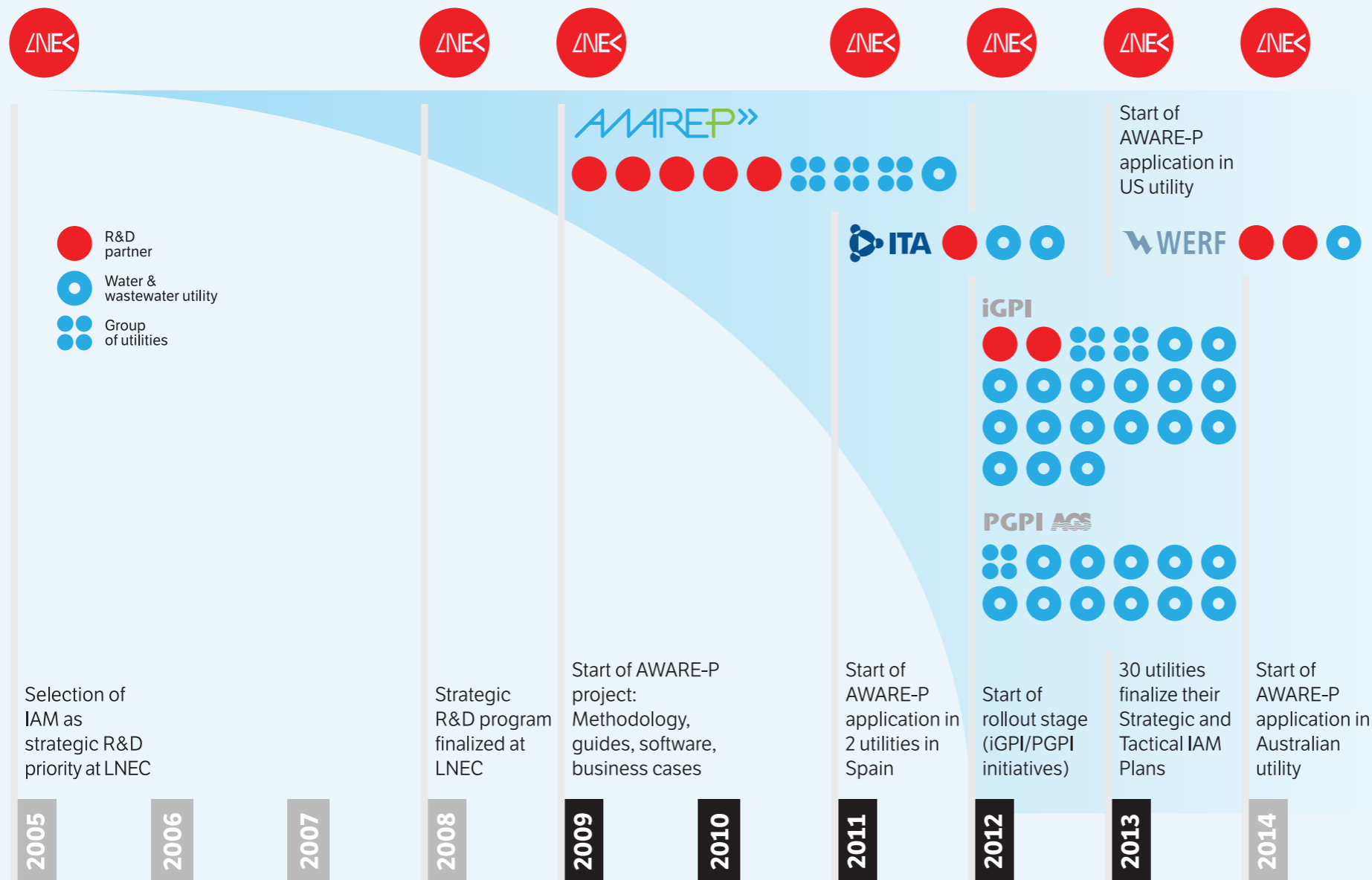
# AWAREP»»

**AWARE-P: a progress review 2009-2013**

**November 2013**

[www.aware-p.org](http://www.aware-p.org)

# From R&D to the industry



## A few statistics (Nov 2013)

34,000

NETWORK KMs COVERED BY IAM PLANS

100+

UTILITY TECH STAFF DIRECTLY INVOLVED

30

UTILITIES

€1.8M

TOTAL FUNDING

49,918

LINES OF SOURCE CODE DEVELOPED

22

MEMBERS OF THE PROJECT'S R&D TEAM

500+

WATER PROFESSIONALS TRAINED

43

SCIENTIFIC & TECHNICAL PAPERS

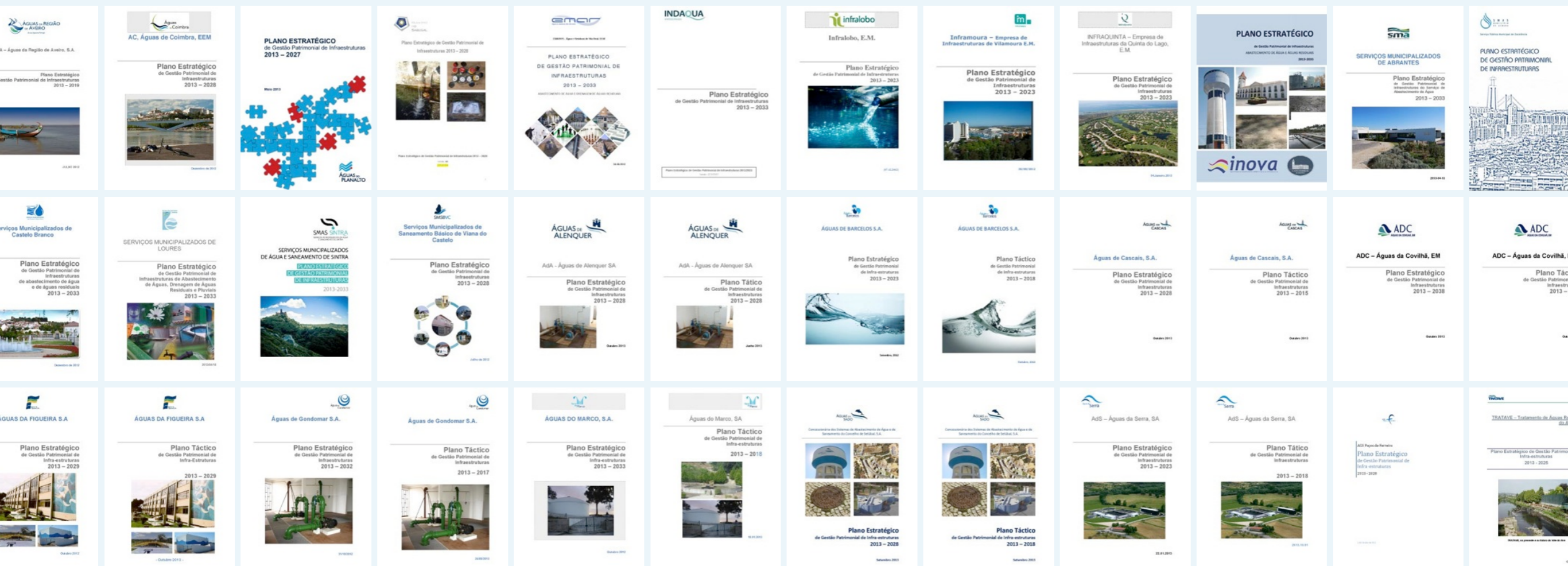
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KEYNOTES & SEMINARS WORLDWIDE



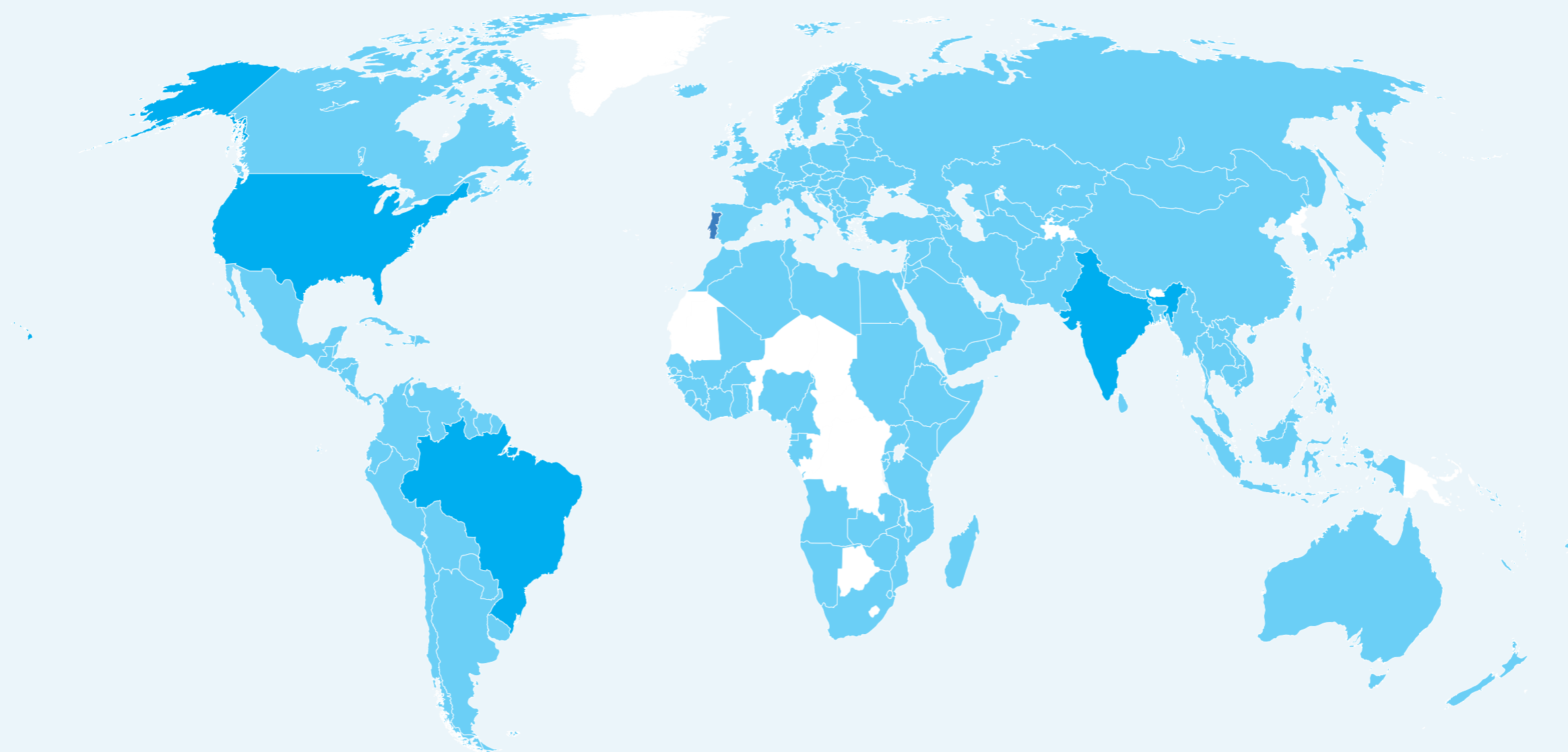
# 30 Strategic IAM Plans

# 30 Tactical IAM Plans



# Global Software Usage (Nov 2013)

1047 registered users in 143 countries



# Quotes

“Portugal has achieved remarkable targets in public water services in the last 20 years. This can only be seen as an effective success because the country is preparing for the future management of this crucial infrastructure, undoubtedly due to AWARE-P.”

**JAIME MELO BATISTA, President** – ERSAR - Water & Waste Services Regulation Authority - Portugal

"Aligned with the company's strategic objectives, the program gave us the tools and skills that allows an efficient planning and management of our infrastructures. This project also induced standardization and improvement in data collection, ensuring quality and accuracy to decide what, where, how much, when and how to rehabilitate".

**RUI MARQUES, General manager** – Águas de Barcelos water supply & wastewater utility - Portugal

“The project created the conditions for effective implementation of IAM planning at Águas de Coimbra, essential to ensure infrastructural stability of the systems it manages.”

**JOÃO SANTOS, Asset Manager** – Águas de Coimbra water supply & wastewater utility - Portugal

“The AWARE-P project is at the forefront of innovative asset management planning tools that promises to change the way we do our practice. The visual features of AWARE-P allows intervention scenarios to be evaluated by decision makers at different levels of the organization thus facilitating a better understanding of the condition, risk profiles, and financial status of the system’s assets.”

**WALTER GRAF, Program Director** – Water Environment Research Foundation (WERF) - USA

## IWA LESAM 2013 Conclusions

Main IAM achievements in the recent past:

1. Recognition of the importance of the theme
2. Agreement on key principles and best practice
  - a) ISO 55000 / 55001 / 55002
  - b) Projects, manuals, legislation (e.g. DL 174/2009, IAM manuals)
3. Relevant technological evolution, e.g. inspection, information systems

#### **4. Countries highlighted: Australia and Portugal**

Way forward – need for improvements in:

- Stakeholder-driven IAM ✓
- Communication (internal and external) ✓
- System perspective instead of asset-by-asset IAM ✓
- Alignment between decision levels ✓
- Further technological developments ✓