



# Smart Cities Nashville Tennessee USA

## May 6, 2026, 7 am PDT

### *Live Stream Seattle Washington*

What makes Nashville unique? Why did Starbucks move their headquarters to Nashville? Why is Nashville considered one of the top Smart Cities on the Globe? Find out more about their transportation, health, and smart infrastructure from local experts in the field. Nashville government, people, and higher education are tops in their technologies. Find out some of the niche programs this Smart City has and their accomplishments at today's session. Can our automated system send you an invite? Yes.



***Demetris Eliades***

**Dr. Demetris Eliades**, Assistant Research Professor at the KIOS Center of Excellence, University of Cyprus, who is our expert in water systems leading the Smart Water Systems team and associated [Water Systems Research Infrastructure](#).

#### **Title: Smart Water Systems in Smart Cities**

Water systems are under increasing pressure from climate change, drought, ageing infrastructure, leakage, contamination risks, energy constraints, and cyber-physical vulnerabilities. This presentation introduces the concept of

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Smart Water Systems as integrated cyber-physical infrastructures that combine sensors, actuators, communications, data spaces, digital twins, artificial intelligence, and decision-support tools to improve the efficiency, safety, resilience, and sustainability of water services. Focusing on the European experience and focusing on Cyprus, the presentation shows how digital twins are being developed and deployed for drinking-water and wastewater systems. It discusses the technical foundations of these systems, from GIS-based asset modelling and hydraulic simulation to IoT integration, sensor placement, model calibration, state estimation, leakage-risk analytics, and what-if scenario analysis. The presentation concludes by highlighting the future of interconnected digital twins, where water, energy, environment, space technologies, and emergency-management systems can be integrated to support smarter, more resilient cities.

**Dr. Demetrios Eliades** is a Research Assistant Professor at the KIOS Research and Innovation Center of Excellence, University of Cyprus, where he leads the Smart Water Systems Programme. He holds a PhD in Electrical Engineering from the University of Cyprus, an MSc in Artificial Intelligence from the University of Edinburgh, and a Diploma in Electrical and Computer Engineering from the Aristotle University of Thessaloniki. His work focuses on smart water systems, cyber-physical security, digitalisation, and emergency preparedness for water infrastructure. He has over twenty years of experience across academia, applied research, and industry, and has coordinated or provided technical leadership in more than twenty research and innovation projects, including the €7 million Horizon 2020 PathoCERT project on technologies for managing waterborne pathogen contamination emergencies and supporting first responders. He leads initiatives on the digitalisation and efficiency of the water sector in Cyprus, focusing on digital twins, smart metering, leakage reduction, and decision-support tools for utilities and public authorities. He also serves as a senior consultant on the Cyprus Water Loss Reduction Strategy currently under preparation. His broader work includes wastewater-based epidemiological monitoring, water-quality resilience, and operational support for utilities facing increasing pressures from water scarcity, climate change, and infrastructure stress. He co-leads the ICT4Water Intelligent and Smart Systems Task Force and the Water Europe Expert Group on Digital Water Systems Management. Through invited talks and international engagement across the EU and internationally, including South Korea and Viet Nam, he has contributed to policy and practitioner discussions on contamination emergencies, resilient water infrastructure, and long-term water resilience. He received the Water Europe Digital Water Award for developing an innovative tool for investigating contamination events, and an Honourable Mention in the ETEK Engineering Award as technical coordinator of the national COVID-19 information management platform.

**ISO 37101:2016** establishes requirements for a management system for sustainable development in communities, including cities, using a holistic approach, with a view to ensuring consistency with the sustainable development policy of communities.



**Hosam Elsayed**

**Mr. Elsayed** is a highly accomplished and results-oriented professional with extensive experience in reliability engineering, calibration and testing, and QHSE management. Proven ability to enhance operational efficiency, ensure regulatory compliance, and drive continuous improvement within diverse industrial settings. Expertise in implementing problem-solving techniques, optimizing asset integrity, and fostering a strong safety culture. Holds a B.Sc. in Pure and Applied Mathematics and numerous certifications from recognized institutions, including API, B.S., ASQ, ASME, ISA, and IEEE.

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