



Urban Water Systems: From Conventional to Smart Paradigm

Professor Zoran Kapelan,
Professor of Water Systems Engineering

Wednesday, 11 March 2015, 5.15pm
Harrison Lecture Theatre 004



Urban water systems are an integral part of our daily lives. They provide us with clean water on demand and efficient disposal of wastewater.

Urban water systems are typically complex systems comprised of many different elements interconnected in large pipe networks. These systems have evolved substantially over the past twenty years with ongoing developments in sensing, ICT and other related technologies. Still, existing systems in the UK and worldwide are facing a number of challenges including

rapidly deteriorating assets, changing climate, increased urbanisation and changing population demographics, to name a few.

The lecture will provide an overview of Professor Kapelan's work to date on addressing different aspects of urban water systems ranging from operational management to long-term planning, all in the context of both conventional and smart water paradigms. The lecture will conclude with future work directions for the years to come.