Practical assignment

The assignment for this lecture is to **Write an essay about one of the cybersecurity incidents in the water sector**.

The critical water infrastructure has been affected by constant digital growth, and the ongoing digital evolution/transformation brings efficiency and monitoring advantages. However, it also exposes water infrastructure to new threats, including cyberattacks. Thus, analysing a cybersecurity incident is vital for understanding adversarial behaviour (the methods, tools, and tactics used by attackers), developing mitigation strategies to prevent or minimize similar attacks, and identifying trends and patterns.

DIGIWATER

Co-funded by
the European Union

Practical assignment

The essay should be delivered within 1 week, and must be comprised by 2500 – 3000 words.

The following links are provided and considered to be useful for the implementation of the essay:

- Industrial Network Security: https://www.sciencedirect.com/book/9780124201149/industrialnetwork-security

- Guide to Industrial Control Systems (ICS) Security: https://nvlpubs.nist.gov/nistpubs/specialpublications/nist.sp.800-82r2.pdf

- Cyber Security for Cyber Physical Systems: https://link.springer.com/content/pdf/10.1007/978-3- 319-75880-0.pdf)

- Cyber Security for the Water Sector: https://wcwc.ca/cyber-security-for-the-water-sector/

- Infrastructure Cybersecurity/Water systems: https://www.rpc.senate.gov/policypapers/infrastructure-cybersecurity-water-systems

- A Review of Cybersecurity Incidents in the Water Sector: https://arxiv.org/pdf/2001.11144.pdf