



# Cranfield Living Laboratory and Urban Observatory

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[www.livinglab.ac.uk](http://www.livinglab.ac.uk)

[www.cranfield.ac.uk](http://www.cranfield.ac.uk)



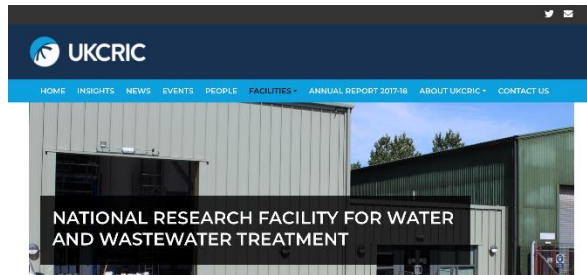
# Cranfield Urban Observatory and Living Laboratory







# Developing a pilot digital twin integrating UKCRIC facilities



There are a number of Urban Water innovation and test facilities located at Cranfield University.

The facilities focus on research into treatment and distribution processes, future technologies such as low energy treatment and nutrient and energy recovery, condition monitoring and performance assessment including development of repair techniques that are less disruptive to supply and system-wide operation and control and integrated data systems.

The facilities include the National Research Facility for Water and Wastewater Treatment, which supports research on the inter-dependencies between treatment and distribution processes, condition monitoring and performance of technologies. Also included are the Test and Control Sewer Loops, which are generating data critical to understanding and managing the dynamics of FOG deposition; the Point-of-use Water Treatment

#### Facility Highlights

- A sensor testing facility for exploring the engineering resilience of urban water systems
- A test area dedicated to the development and testing of point of use water treatment technologies
- An Infrastructure Breakthrough Innovation Hub








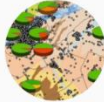
# DREAM Centre for Doctoral Training

**DREAM** Data, Risk & Environmental Analytical Methods


**DREAM - Centre for Doctoral Training**  
DREAM is a Centre for Doctoral Training in 'Data, Risk and Environmental Analytical Methods', established between four leading Universities - Cranfield, Newcastle, Cambridge, and Birmingham



**About DREAM**  
Find out more about the DREAM Centre for Doctoral Training  
[Read more >](#)





**Studying for a PhD**  
Throughout your research studies, you will be supervised and supported by academic staff who are globally-recognised leaders in their fields of research  
[Read more >](#)



**Partners**  
DREAM researchers will benefit from the strong industrial links of the centre academic institutes.  
[Read more >](#)

'DREAM' is a Centre for Doctoral Training (CDT) in 'Data, Risk and Environmental Analytical Methods'.  
Established between four leading Universities - Cranfield University, Newcastle University, the University of Cambridge, and the University of Birmingham - it will support 37 PhD students to undertake doctoral research seeking the opportunities in big data and analytics, designing and implementing effective risk mitigation strategies across the environmental sciences for academe, industry, NGOs and government.





DREAM CDT @DreamCDT - 6 Sep 2017  
Day 3 of Challenge Week and a hive of activity





# DAFNI advocacy and development of use cases at Cranfield



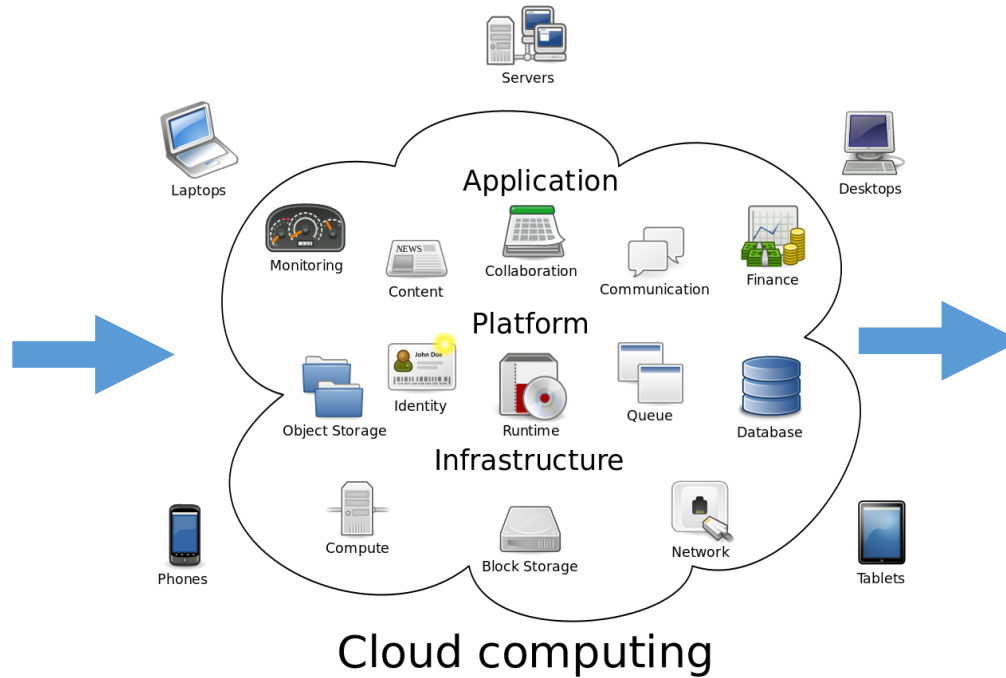


# Supporting the integration of DAFNI and the UKCRIC Urban Observatories



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Cloud computing

