



The Nimbus Centre at Cork Institute of Technology is Ireland's leading research centre devoted to embedded systems.

Embedded systems are the hidden electronics controlling our world and they are everywhere - in our cars, our appliances, our offices and our factories and in a rapidly increasing number of everyday items.

Nimbus is using networks of embedded systems to create the 'Internet of Things' where the physical world becomes connected to the Internet

Nimbus is Ireland's largest 'Internet of Things' centre with 100 researchers and engineers leading this rapidly expanding sector.

Nimbus is funded under the HEA's Programme for Research in Third Level Institutions (PRTLII), Enterprise Ireland, Science Foundation Ireland, FP7, Horizon 2020 and by direct industry funding.



Litmus is a public facility to develop, test, trial and demonstrate applications, products and services.

Our test-bed suite is available to industry and academia to trial and explore new technology and applications in a real-life environment. Litmus offers unique access to infrastructure and a large volunteer user base. Litmus has three core areas: an Energy Testbed, Water Testbed and Urban & Rural Community Testbed.

Technology is trialled before commercial roll-out, allowing innovators to test concepts, obtain feedback and adapt ideas accordingly.

---

#### CONTACT

Litmus Trialling Centre,  
The Nimbus Centre,  
Cork Institute of Technology,  
Bishopstown,  
Cork, Ireland

Brian Cahill  
Email: [Brian.Cahill@cit.ie](mailto:Brian.Cahill@cit.ie)  
Tel: 087 7824314  
<http://nimbus.cit.ie/litmus/>

---

# Trial & Validate your Technology at Litmus: Urban, Energy & Water Test-beds

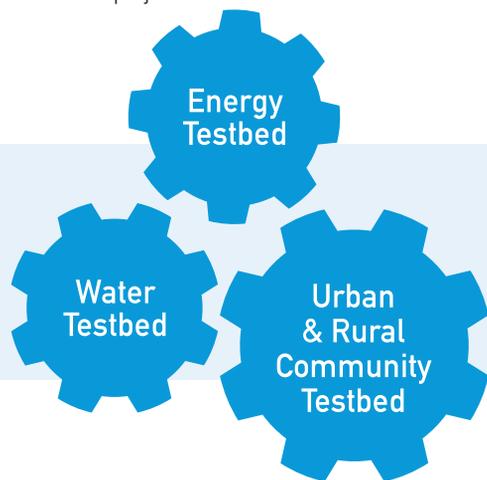


# ENERGY TESTBED

The Energy Testbed, located at the Nimbus Centre, is a whole-building 'energy and power management technology demonstrator', scalable to a district or campus level. The Energy Testbed allows access to buildings and infrastructure to trial new control, heating, generation and storage technologies.

National and international industries avail of world-class equipment and the diverse expertise of Nimbus support teams to carry out Research and Development in a real-life, controlled environment.

The Energy Testbed is also available for experimental work to other higher education institutions and researchers both nationally and internationally through European Commission funded research projects.



*Litmus provided a professional and efficient service when we used their Test-Bed to validate and demonstrate our product. The technical infrastructure, supported by the helpful and knowledgeable Litmus team who understood our business needs, allowed us to complete our project beyond expectation at a very reasonable cost. The Litmus technical support team was readily available and a pleasure to deal with.*

Barry Cullen  
Co-Founder & Commercial  
Director, EXERGYN LTD



# WATER TESTBED

The Water Testbed is a joint venture between the Nimbus Centre, Cork County Council and Cork City Council. The technological knowledge of the Nimbus Centre is leveraged with both Councils' extensive experience in water management.

This facility will give partners in industry and academia support and site access to water infrastructure across Cork county. The Water Testbed harnesses state-of-the-art technology in water quality monitoring, leakage reporting and repair, remote monitoring and much more. We are engaged with key players in the water industry on successful projects, with resulting innovations being rolled out across Cork county. If you have a water-related idea, come see how we can help you develop it.

Litmus is part of the Nimbus Centre, with an excellent track record of successful academic and industry projects to over 200 MNCs & SMEs. The Centre offers the services of 100 researchers and engineers.

# COMMUNITY TESTBED



**Creating and commercialising new systems is complex - in many cases the only way to effectively determine success is to trial in real-world environments.**

The Urban and Rural Community Testbed provides both necessary infrastructure and citizen participation to conduct trials, ensuring that end products are user-friendly and ready for commercialisation.

A regional community with access to a high-performance broadband facility is supporting the initiative, trialling applications and products and providing feedback. This 'small smart-city' is delivering projects for industry and academia alike.