




Applied IoT

an Enterprise Ireland
Technology Gateway cluster

A Guide for Companies

The A-IoT Cluster is a consortium of five of Enterprise Ireland's Technology Gateways, providing a single point of contact for companies looking to access technical capabilities for Internet of Things (IoT) research and development.

Via the cluster, industry can connect with 300 research professionals in software, hardware, communications/networks, data analytics, control, UI/UX and trialling. The A-IoT Cluster is open to all companies, of any size, nationally and internationally.





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The A-IoT Cluster can help companies use Enterprise Ireland funding mechanisms in the form of Innovation Vouchers, Innovation Feasibility Studies, and Innovation Partnerships. Companies can also engage through direct consultancy with the Gateways.

The business development manager is based in the A-IoT Cluster office in Dublin city centre. His role is to meet with interested companies to discuss their needs and assign one or more of the five gateways which have the relevant expertise and capabilities to deliver the required results.

Key benefits of working with the cluster

1. Get assistance to investigate the integration of applied IoT solutions into your business, with delivery of near-to-market solutions.
2. Extend your company's R&D capability, with nearly 300 industry-focused researchers and engineers across the A-IoT Cluster.
3. Deliver project feasibility – from short term up to longer product or service research and development projects (two years).
4. Access test bed validation of applied IoT solutions across a range of platforms – smart manufacturing, environment, health and cities.
5. Help with the various funding mechanisms available, including innovation Vouchers, Feasibility Studies and Innovation Partnerships.

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Technology Gateways



The **COMAND** Gateway based in AIT is delivering solutions for the software industry across multiple media platforms. The industry focussed technology offer from COMAND includes

- Cloud Media Platform: Leverage media processing in the cloud and end user
- Augmented User Interaction
- End to End Applications
- Intelligent Infrastructure
- Interoperability of the Internet of things

The COMAND Technology Gateway concentrates on the research and development of prospective interactive media technologies focused on Augmented User Interaction, End to End Applications, Intelligent Infrastructure and the interoperability for the Internet of Things.

COMAND works closely with industrial collaborators in all sectors of connected media applications delivery and provides to companies from startups and SMEs to multinationals.

Through its experienced engineers, COMAND provides extensive research outputs, troubleshooting, new architecture design, coding & implementation, evaluation studies, product design & testing.

COMAND provides fast turnaround and the latest technology in IT engineering standards through its highly qualified engineering teams who work with multiple project challenges each year.

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“The manual processes we used have now been replaced by an automated system which is faster cheaper and transparently scalable. This system provides the company with a distinct advantage over our competitors in the marketplace. We see this development as a stand-alone commercial opportunity to market it to Brand owners and the greater retail market worldwide.”

David McDonnell, Managing Direct Visual ID

Project: Cloud based smart image recognition processing solution

[Read Case Study](#)

IMaR
Gateway Manager

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The **IMaR** Gateway based in IT Tralee is applying its core expertise in the areas of hardware (mechatronics, robotics, control systems), software (data management and intelligent systems), IoT (RFID, Sensors) and data analytics to deliver increased productivity in the manufacturing, agriculture and process sectors to industry partners. IMaR Technology Offering is:

- Intelligent mechatronics, process automation and robotics for agricultural technology and advanced manufacturing
- Industrial Internet of Things, RFID and Data analytics for Industry

The IMaR Gateway is an applied research provider delivering technology solutions for industry. Under direction from an industrial steering committee, IMaR provides expertise in hardware, software, IoT and data analytics innovation for increased productivity in the manufacturing, agriculture and process sectors.

IMaR offers a range of services to industry such as project development and specification, prototype/proof of concept development, consultancy and industry collaborations, as well as assistance in sourcing funding for research and development projects.

IMaR has a proven track record of delivering technology solutions to industry since the Gateway was established in November 2013. A team of 25 researchers are actively involved in projects ranging in value from €5,000 - €2,000,000, while partnering with industry of all sizes from startups to SMEs to multinationals.

Project: Hazardous waste 'track and trace' using Internet of Things technology

“When Astellas contacted IMaR with the issue of tracking hazardous onsite waste, we found their approach to be very analytical and we are very satisfied with the high professional standard and valuable support provided during the project.”

Eamonn Foley - Astellas

[Read Case Study](#)



The **TEC** Gateway based in the Nimbus Centre at CIT, has a team of 40+ hardware and software researchers working with companies who require technical expertise in Smart Technologies, Internet of Things and Cyber Physical Systems. TEC supports all levels of innovation from idea-filtering to prototype development and commercialisation. TEC specialises in the following domains:

- Industry 4.0
- Energy
- Water, Maritime and Environmental
- Smart Cities
- Applications in Ed-Tech, Agri-Tech, Security and eHealth

The TEC Gateway's main domains are energy, water, smart buildings & cities, eHealth, eLearning and location-based services. TEC assists companies to develop smart technology solutions for the world we live through the Internet of Things, with a focus on devices/things networks software, data analytics, and applications and services. These technologies are applied to the energy, water and location-based services and applications sectors. TEC assists clients of all sizes, from startups and SMEs to multinationals, to develop product prototypes.

The TEC Gateway acts as a resource to bring business ideas to life, acting as an extension of the company's research and development capability. As a result of the assistance received from TEC, many of startup companies in particular have consequently received an increased level of funding, which can support research projects on a larger scale.

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“The TEC Gateway has done a great job to upgrade our existing controller and the look and feel of our nutrient control centre. This has allowed us to work with companies like Ergonomic Solutions to realise a new product offering that was launched at the National Ploughing Championships 2017. We anticipate this to be the foundation platform for a more interactive experience for our customers in the future”

Padraig Hennessy - MD, Terra Liquid Minerals

Project: Upgrading a liquid mineral injection system

[Read Case Study](#)

TSSG
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The **TSSG** Gateway based in WIT collaborates with companies involved in delivering mobile services primarily for smart phones and tablets. TSSG's technology offer is based upon expertise in:

- Distributed & cloud-based mobile services
- Next generation IP based voice and video
- Virtual and Augmented reality services
- Location, context, smart space and social service enablers
- Data science and mining

TSSG is an advanced software R&D Centre with particular expertise in all aspects of mobile networks and communications platforms and services, hosted at WIT. We have completed over 120 projects over the past five years with companies based in Ireland, including work for multinationals such as IBM and Cisco and EI clients regionally and nationally.

TSSG can help you develop new advanced mobile platforms, mobile services and mobile service enablers. Our team will assist you and your organisation to analyse needs, to design, develop and launch a mobile strategy, from concept to production, using HTML5 and native applications on mobile and tablet devices that will deliver clear advantages over your competitors, what we term 'innovation in a box'.

Collaborating with TSSG will allow your company to build beyond simple mobile applications to create multi-tiered systems allowing you to provide a variety of new services or products to your clients.

Project: Database for sources of GDPR and regulatory information

[Read Case Study](#)

"We engaged with TSSG to deliver a critical piece of industry research that facilitates Odyssey's market positioning into the future. We found the team to be excellent in understanding the business problem statement and in then delivering the desired end result. I would not hesitate in recommending the TSSG team"

Oisín Curran - CEO, OVC

WiSAR Lab

The **WiSAR** Gateway based in LyIT provides solutions to Irish industry for The Internet of Things (IoT) using expertise in wireless, embedded systems and related software. WiSAR offers this expertise to companies in the following sectors:

- Wearable Tech: Healthcare, Sport & Tourism
- Remote monitoring: Industrial control, Transport, Environmental, Marine
- Power electronics: Renewable Energy and Electric Vehicles
- Communications: WLAN, Zigbee, Bluetooth, UWB, RF and Micro wave

The WiSAR Gateway uses expertise in wireless, embedded systems and power electronics to provide solutions for the Internet of Things (IoT). The primary goal of this Gateway is to achieve ultra-low power consumption in Wireless Sensor Networks (WSN). Expertise is provided to Irish industry across many sectors, including sports and tourism, marine, and renewable energies, relating to wearable technology, remote monitoring, power electronics and communications.

The facilities at WiSAR allow for a very high standard of research and development to be carried out on collaborative projects with industry. WiSAR's collaborative services provide companies with a flexible and expert R&D resource, allowing them to examine the potential for wireless technology within their businesses without demanding a large initial investment from their own resources.

WiSAR's competencies allow clients to develop and build prototypes, undergo feasibility studies and perform proof of concept exercises. All the outputs of the research carried out in this gateway is deployed in live test beds.

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“Through our collaboration with WiSAR, we were successful in securing funding for an Innovation Partnership to develop a new system for monitoring our crab fishing process using various wireless technologies. We are excited that the technology developed will first and foremost enhance our business and it is something that we feel can also provide opportunities for us to market in the fishing industry. I would recommend the WiSAR lab and Innovation Partnerships to other companies looking to be involved in R&D.”

Pete McBride - General Manager, McBride Fishing

Project: RFID counting tag system for crab fishing pots

[Read Case Study](#)

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