

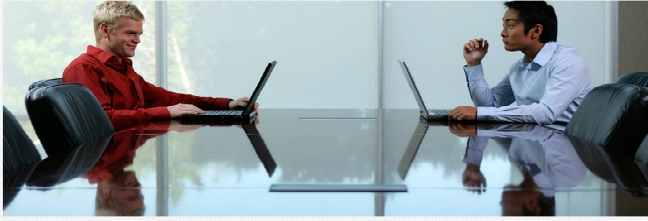


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Letterkenny Institute of Technology

WiSAR

Wireless Sensor Applied Research Lab:
A new Centre of Excellence for the Northwest

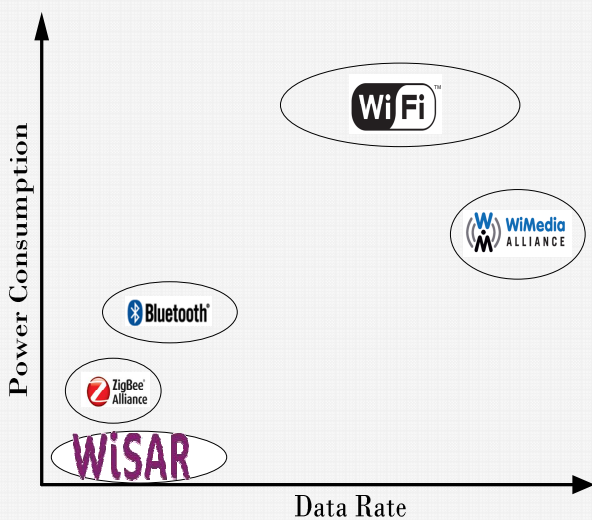


The aim of the WiSAR Lab is to create a centre of excellence in wireless sensor network (WSN) technology, which will become the hub of research and applied solutions for technology companies in the North West region.

The core research will be in the area of low power protocols for Wireless Sensor Networks, primarily in Wireless Body Area Networks (WBAN) and Wireless Built Environment Networks (WBEN).

Main Research Focus:

- Classification structures and specifications for Wireless Sensor BAN's and BEN's - applications, networks, devices
- Develop Novel MAC and Routing Ultra Low Power Protocols able to handle energy constraints, security, extensibility, reconfiguration
- Implement (simulate, build motes) solutions to scalability, power saving, routing, QOS, security
- Testbeds to prove new sensor technology in REAL applications using performance metrics



Contact:

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BEN:

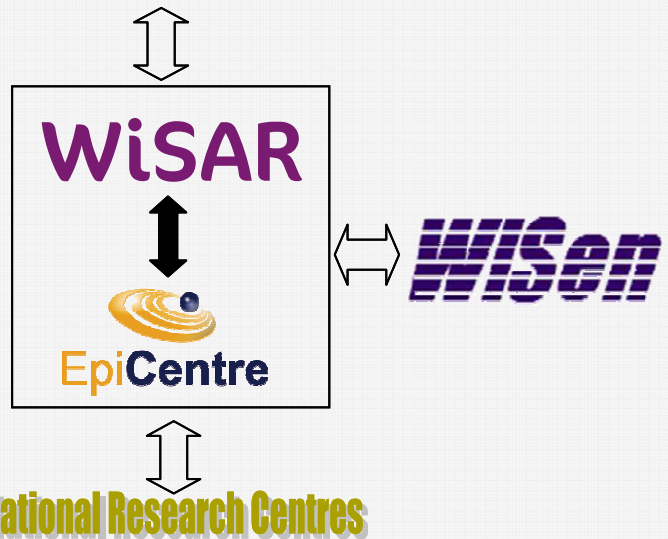
- Lighting
- Temperature monitoring
- Access control
- Security
- Fire Alarm
- HVAC

Industrial Partners

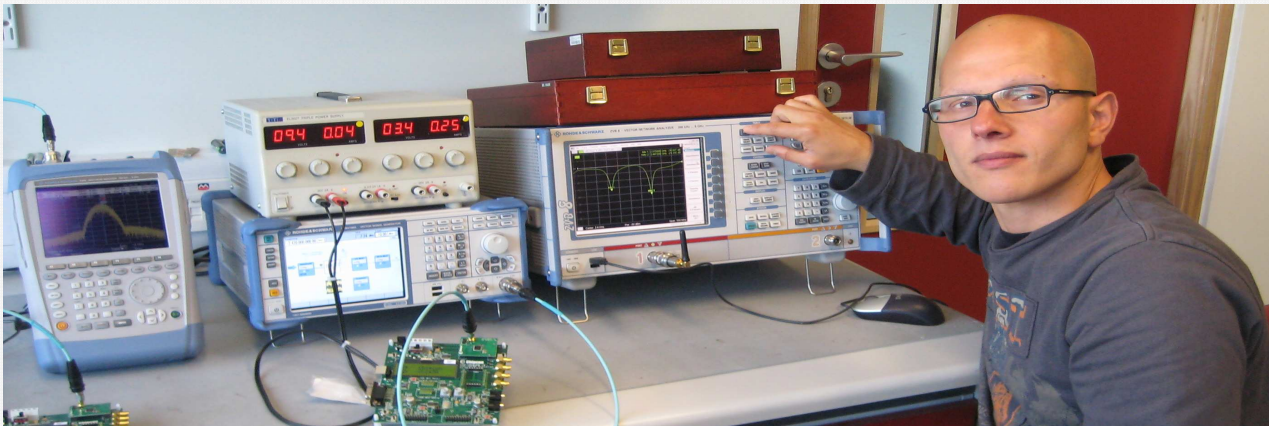
Industrial & Academic Partners

sought for:

- BAN protocol development
- Gateway development
- Mote development
- Sensor integration
- Testbed development
- RF channel modelling



A state of the art RF lab to support research and industry



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