

## WISE Annual Membership Snapshot

- Regular opportunity to utilise the Innovation Centre, talent and digital kitchen
- **3-4 Innovation Workshops** with other WISE members designed to identify challenges and initiate individual/collaborative innovation projects
- **2-3 Design Thinking Workshops** that help members identify problems and prototype solutions
- **2-3 Industry Leader Talks** featuring industry experts at the cutting edge of innovation
- **1-2 Innovation Delegations** to visit innovative technology hubs, events and/or facilities
- **3-4 Trial Projects** utilising ICP staff, ICP facilities, WISE members and technology providers
- **Free equipment loans:** WISE members can borrow sensors and other technology to utilise during trials
- **3-4 ICP Hosted Networking Events** to meet WISE members, industry participants, technology providers and researchers
- **3-4 Industry Hosted Innovation Events** - WISE members are extended free invitations to cocktail functions, networking and other industry events



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*WesCEF joined WISE as we wanted a mechanism to help us plan, trial and test various IIoT technologies.*

*We didn't have a strong internal capability in this area, and through WISE, we have initiated numerous prototypes across our diverse operations. We have trialled options, failed fast, and done this without the need for massive investment.*

*One of the biggest learnings we have had is that it's not just about buying sensors and deploying them.*

*Thank you WISE for helping us gain the knowledge to map a pathway forward.*

  
Wesfarmers Chemicals,  
Energy & Fertilisers

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The WISE program is supported by, and collaborates with, METS Ignited



The WISE program is supported by, and collaborates with, the energy resources Industry Growth Centre National Energy Resources Australia (NERA)



WISE is an Innovation Central Perth Program

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Innovation Central



Innovation  
Central Perth  
A collaboration led by 

# WISE

## Wireless Industrial Sensor Environment Program



Foundation partners



## WISE (Wireless Industrial Sensor Environment)

The WISE program is one of Innovation Central Perth's business incubation initiatives. It is a collaboration focused solution development, testing and IoT piloting hub that helps members diagnose challenges and identify opportunities utilising wireless sensor technology to optimise efficiencies through automation.

### WISE Features

WISE provides members with an environment and the resources to enable members to collaborate and build real-world, standards based Industrial IoT technology solutions. The program provides:

#### Access to talent

- Consultation and advice from ICP and WISE partners to help identify and validate the most appropriate methods for capturing, transporting, visualising and analysing data
- Tailored face-to-face tutorials on installing sensors and analysing the data outputs

#### Access to the WISE hardware and software platforms

- Digital Kitchen (full access to contents including computing and hardware equipment, and industrial-grade wireless sensors)

#### Access to campus infrastructure for experimentation and validation

- Open innovation and collaboration with other WISE members
- Site visits to member locations
- Regular meet-ups to discuss ideas, challenges, initiatives, projects
- Joint Proof of Concept facilitations for particular sensor technologies

## WISE Member Benefits

### Industry Benefits

- Reduces costs involved with research, identification, on-boarding and deployment of IoT technology
- Enables members to trial and test models prior to procurement and implementation decision making
- Access to the cutting edge of IoT sensor and wireless connectivity technologies
- Accelerates data capture, storage and analytics know-how
- Diverse range of opportunities to build relationships with industry peers, clients and vendors

### SME Benefits

- A high-quality proving ground for SME's ideas and IP (where appropriate) to collaborate with industry driven projects - exposing new technology to industry and opening market opportunity
- The collaborative and knowledge sharing approach of WISE encourages SMEs to contribute their knowledge and expertise across projects
- Opportunity to engage on a greater level with potential clients - corporations, government & research institutions

### Featured Technology Available at WISE

#### Sensors

- Vibration
- Temperature
- Humidity
- Luminosity
- CO2 & VOx
- Soil Moisture
- Surface Moisture
- GPS Location

- Acoustic
- Ultrasonic
- Float/Tilt

#### Visualisation Platforms

- Kibana
- Snowden Neuroverse

#### Data Fabric

Cisco Kinetic

#### Network & Communication

- LoRAWAN
- Wifi
- 3G/4G
- NB-IoT
- Indrasync

## MEMBER OPPORTUNITY!

### ICP MUD Application

Manufacturer Usage Description (MUD) is an embedded software standard that allows IoT Device makers to advertise device specifications for their device when it connects to the network. The network can then use this intent to author a context-specific access policy, so the device functions only within those parameters. In this manner, MUD becomes the authoritative identifier and enforcer of policy for devices on the network.

The team at Innovation Central have developed a MUD application that automatically reads a device security policy embedded in a MUD file and applies that security policy to the network via Cisco's DNA Center software defined network controller. WISE members will be able to utilise this application to test the specific MUD capabilities of new IoT devices, validate the security requirements of these devices and validate inter-operability with Cisco software defined network infrastructure.

