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***“Fostering high-tech industry  
development in ICT Sector”***

The Centre for Technology Infusion, a new University-based Research and Product Realisation Centre is located at the La Trobe University's R&D Park. The centre aims to create an environment to develop and transfer industrial technology, research, IP, design services and industrial products to the community in Information and Communication Technology sector – thus fostering ICT Industry development. The Centre aims to overcome Australia's development handicap, which has meant promising research outcomes have gone overseas.

The Centre is based on partnership model with partners including technology providers and developers, tool vendors, test facilities, research organisations, governments and industry. Combined with the resources and expertise, the Centre provides technology innovation, development and infusion environment targeted towards high impact and strategic growth areas.

**The overall goal of the centre is to:**

- Engage in strategic and translational research;
- Provide design & test services;
- Provide access to technologies, EDA tools, infrastructure & methodologies for research & product development;
- Transition the outcomes of research and innovations into the public & private sector markets; and
- Support development of industries in the strategic & key growth areas.

**Centre Activities**

- Research
- Product Realisation
- Design and test Services
- Professional Development Courses
- Engagement & Consultancy

**Key Research Areas**

- Embedded System & SoC Design
- RF and RF-MEMS Design
- Analog and Mixed Signal Design
- Digital (DSP/FPGA/ASIC) Design
- Wireless Design
- Smart Sensors
- Testing and Design for Testability
- Ultra Low Power Design

**Facilities**

- **Hardware Product Realisation Centre**  
The Centre provides access to technologies, EDA tools, infrastructure, methodologies, design and test services for product development and commercialisation
- **La Trobe University Microsoft Centre**  
The Centres vision is to create an environment for software developers where their ideas can be brought to life through the infusion of cutting edge hardware and software.
- **Home Automation Innovation Centre**  
A technology infusion initiative to create an environment for developers to engage in home automation research & products development
- **National Networked TeleTest facility for Integrated Systems**  
The \$15 million facility provides leading edge capabilities addressing the most complex testing, IP validation and characterisation challenges in micro/nanoelectronics

**Professional Development Courses**

The centre offers a number of professional development courses targeted to companies engaged in micro/nanoelectronics and ICT.

**Partners/Collaborators**

The Centre has developed partnerships and strong collaborative relationships with technology providers and developers, EDA tool vendors, industry clusters, governments, universities and research organisations.