INITIATIVES BY SPRING

Nanyang Polytechnic (NYP)'s Open Innovation Community

With SPRING's support, the NYP's Centre of Innovation for Electronics set up the IoT Open Innovation Community, which is a synergistic open innovation network that brings together enterprises, technology partners, research and knowledge institutions and relevant industry catalysts to explore, experiment, collaborate and exploit the potential of the Internet of Things for new business innovations, opportunities and growth.

The IoT Open Innovation Community provides a platform to:
  - Establish networks among participating members and develop thematic programmes to stimulate business and services innovation leveraging on IoT technologies
  - Initiate partnership and collaboration between enterprises and lead-demand organisations to co-innovate IoT solutions to optimise/enhance existing businesses and to establish new markers
  - Partner participating players to establish sharing platforms for technology insights and development, market scans and analysis, access to IPs and capabilities development
  - Collaborate with technology partners to develop platforms and application cases/models for rapid adoption and adaptation

- Examples of companies that found partners and developed solutions through NYP's Open Innovation Community:

  - Cyclect Electrical Engineering Pte Ltd, was able to quickly identify and work with a technology partner in electronics and IoT to jointly design and implement an innovative control mechanism used in guided vehicles for smart mobility solutions.

  - Local SME Sigenic was able to find collaboration partners in embedded electronics and IoT to design and develop ground breaking solutions to capture and analyse machine data for predictive maintenance and quality analytics for the manufacturing industry through the community.

SPRING's Partnerships for Capability Transformation (PACT)

Under the Partnerships for Capability Transformation (PACT) initiative, SPRING works with large organisations (LO) to identify and implement collaborative projects between LO and local SMEs in areas of:

  - Knowledge transfer from an LO to at least one SME
  - Capability upgrading of an LO's new or existing suppliers
  - Development and test-bedding innovative solutions between an LO and at least one SME

- Examples of **PACT projects**:

  - Intel supported local SME Third Wave Power to build and market a solar-powered IoT solution.

  - Semiconductor firm NXP assisted local SME Styl Solutions to develop NFC-based (near-field communication) vending machines for Sentosa.

List of existing incubators and accelerators for electronics and IoT:

1) Jungle Ventures: Focus on IoT
2) TNB Accelerator: Focus on IoT, AR/VR, robotics, machine learning/artificial intelligence
3) Silicon Solution Partners: Focus on electronics
4) Green Meadows Accelerator: Focus on advanced manufacturing and Cleantech
5) Focustech Ventures: Focus on IoT, Advanced manufacturing, robotics, machine learning/artificial intelligence, AR/VR
6) Advanced New Technology Incubator (ANTI): Focus on hardware, robotics, automation
7) AIRmaker: Focus on IoT in the area of smart cities and digital health