iINNOVATIONS
i INNOVATIONS PTE LTD

Innovators In
AI, IOT, Embedded System

About Us

- A Singapore SME since 2004
- More than 3 decades of Product Development experience
- Customized product/solution development
- AI Product in Predictive Maintenance, Computer Vision
- Data Centre Security Rack Solution Product

Expertise

- **Embedded System**
  - RISC Processor, Microcontroller
  - Linux OS, Drivers Development
- **IOT**
  - LoRa, NB-IOT, LTE Cat M, Bluetooth BLE, ZigBee, Wi-Fi, UHF RFID.
  - Sensors – Audio, Accelerometers, Gas…etc
- **AI**
  - Computer Vision – Video Analytics
  - Signal Processing using Sensors Data

Customised Product/Solution Development Portfolio

Commercial Projects for Customers

Portfolio – Consumer
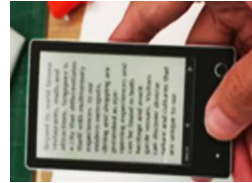
Smart Helmet   BLE Padlock   Smart Bag   Smart Hotel Key Card   EMS Gym Wear

Remote Control   USB Charger   Gaming Mouse   Pen Remote Controller

Portfolio – Industrial

Lassalle Access System

IBP Access Reader

SMRT Access Reader

Multi Camera PC

Soil Detector

OBD2 Tracker

ZigBee Traffic System

Trailer Locking

AI Power Meter

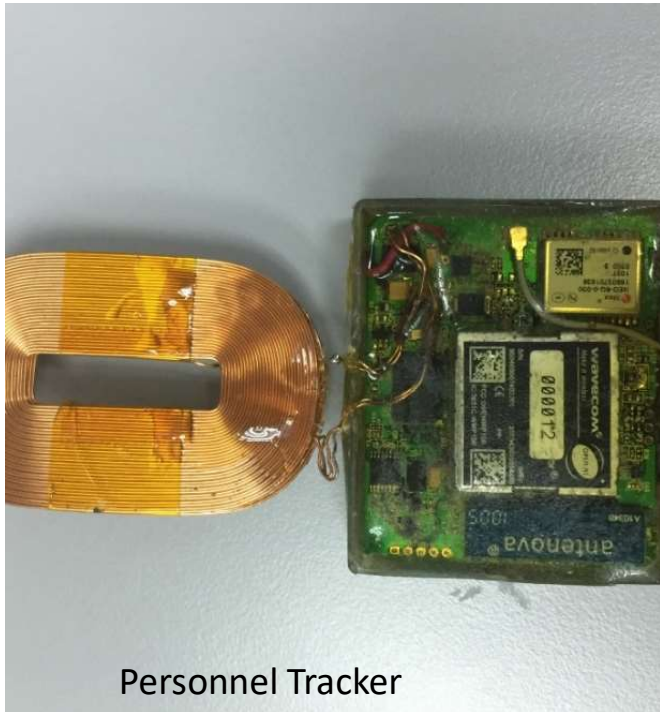World Tracker

Military Projects

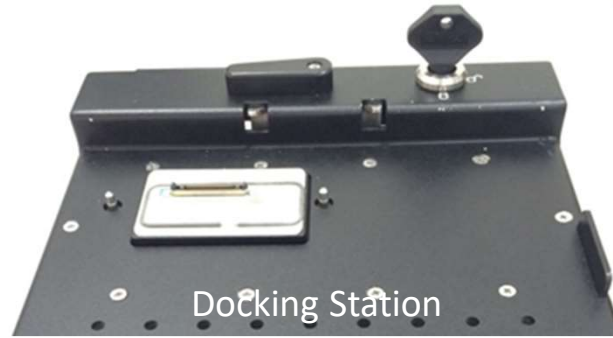Smart Armskote

Mission Controller

Audio Video UAV Transceiver

Portfolio – R&D

Personnel Tracker

Docking Station

In Vehicle All In One Controller

Digital Dog Tag

Tank Embedded PC

Portfolio – Design Develop Produce

Product – AI Edge Computer

AI Predictive Maintenance Device (PMD)

- Predicts Turbine Generator Failure
- Predicts Oil and Gas Pumps Failure
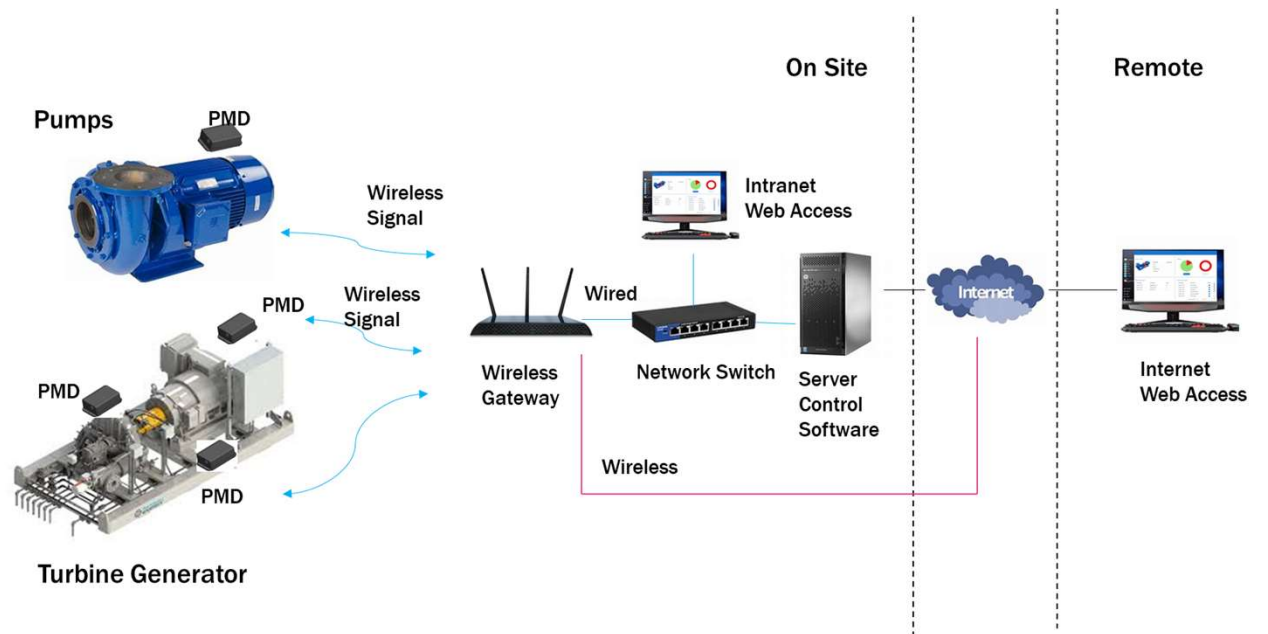- Saves machine down time

AI (PMD) – Backend Software

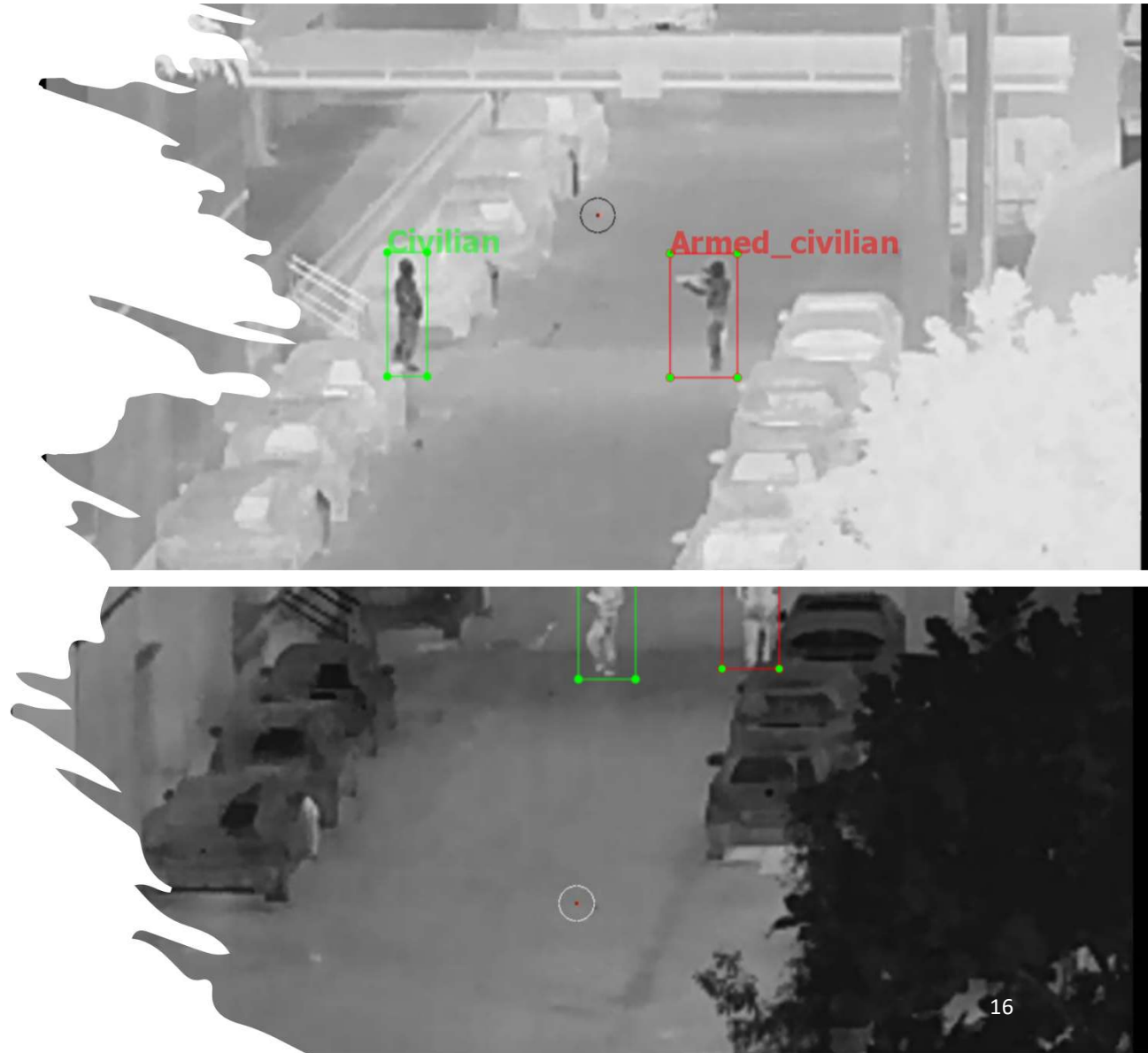# AI (PMD) - Applications

AI – Video Analytics Edge Computer

- Portable Hand-held Battery powered
- Recognition of Type of Vehicles
- Recognition of Civilians or Soldiers
- Armed Civilian Detection and Recognition
- Instant detection and recognition
- Can be trained to detect any objects or visual scenario:

15

AI – Video Analytics Edge Computer
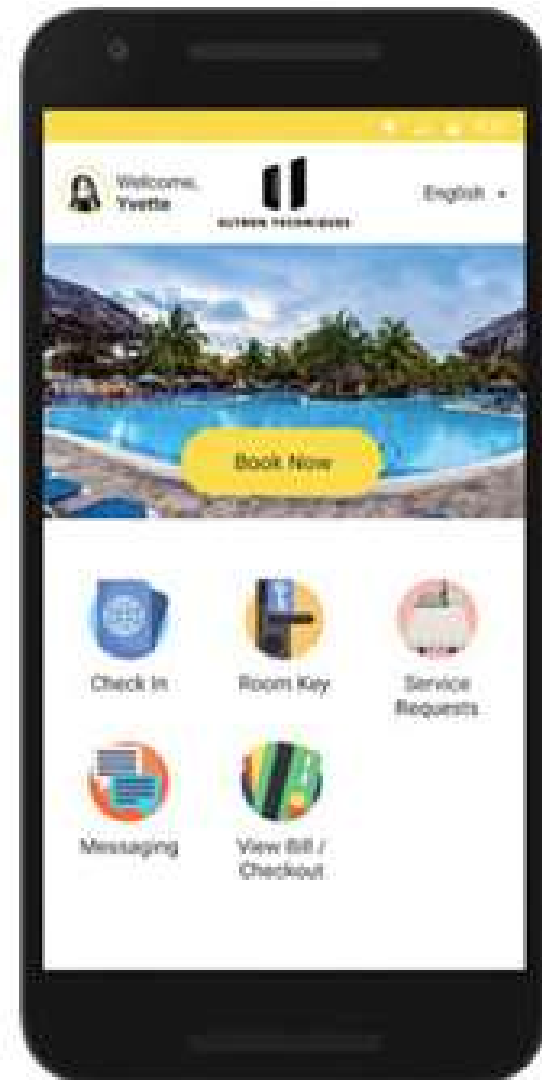
Thermal Camera Object and Scenario based Analysis

Product - IQC

- A mobile application that transforms images into information through the use of artificial intelligence.

- This App enables housekeepers to perform self-assessment and make instant corrections among other features.

- https://youtu.be/1zNB75PMCqQ

Product –
Data Centre
Rack Security
Solutions

Data Centre Smart Access System

SYSTEM BLOCK DIAGRAM

✓ MODEL A
2FA READER

WITH FACIAL RECOGNITION
✓ MODEL B
3FA READER

Both models come with choice
of Bluetooth or RFID reader

✓ READER CONTROLLER

EM LOCK FOR
RACK DOOR

NETWORK

✓ BACKEND SERVER
SOFTWARE

- Remote Log-in access
  and monitoring

Our Clients

The End