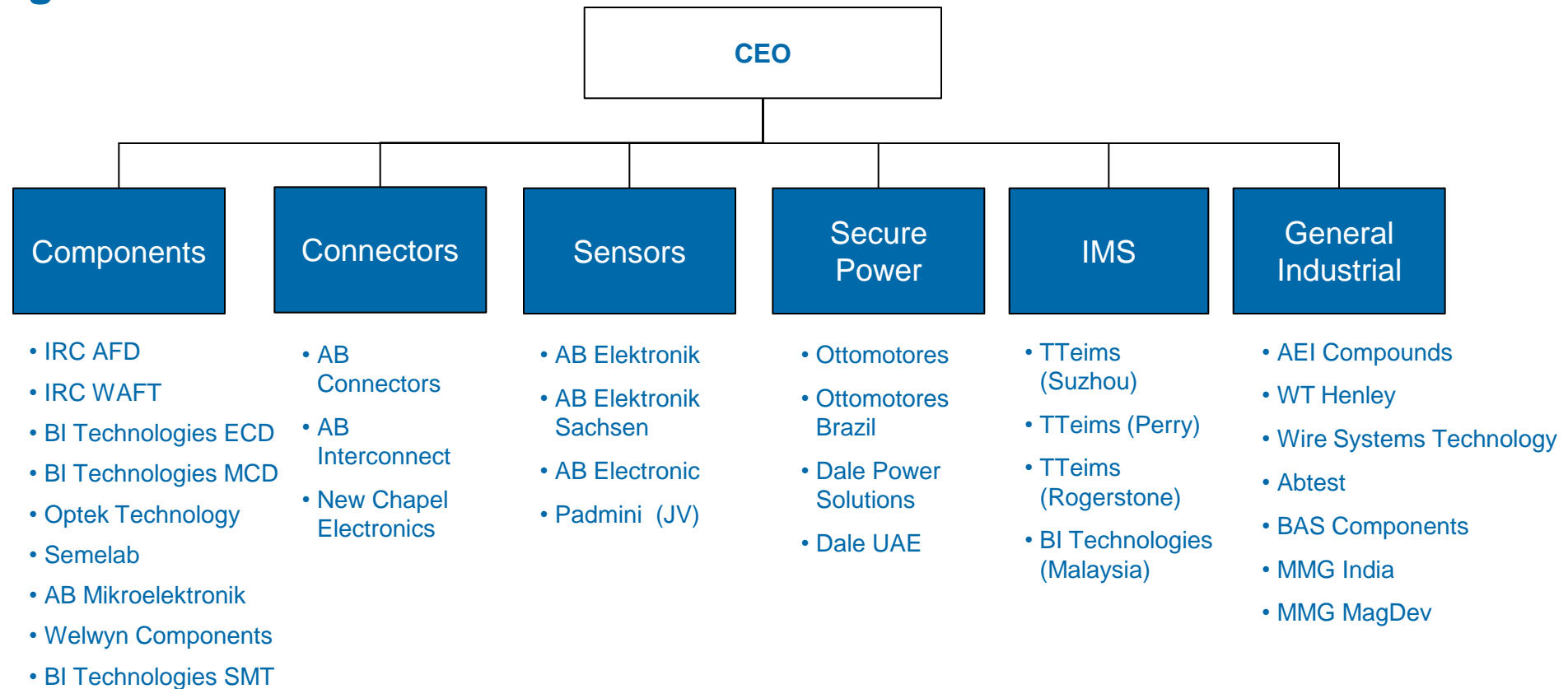


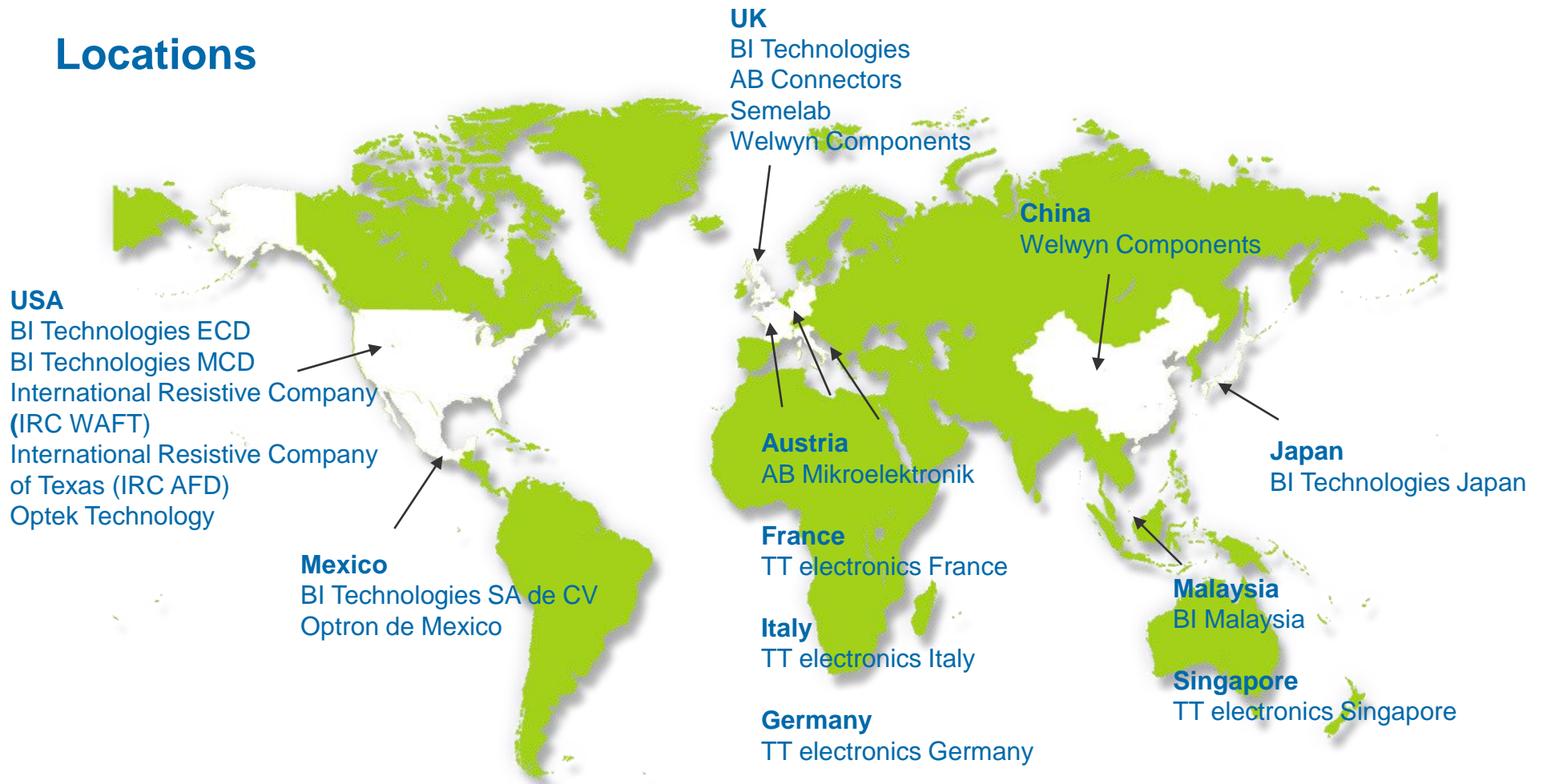
# TT electronics plc

13<sup>th</sup> October 2010

## Organisation Structure



## Locations



## Vision

The Components Business is a global supplier of higher-performing, speciality and custom passive component, optoelectronic, microcircuit and semiconductor products and specialist connectors and harnesses

Solid foundation for growth:

- Innovative solutions to customer design needs
- Broad line supplier to our customer base
- Excellence in customer service

Vertical integration to higher-level assemblies and circuits will remain a constant goal where possible

## Products: Passive Components

### Fixed Resistors

- Higher power
- Higher temperature
- Tighter tolerances

### Variable Resistors

- Custom designs
- Fast prototyping
- Long life

### Magnetic Products

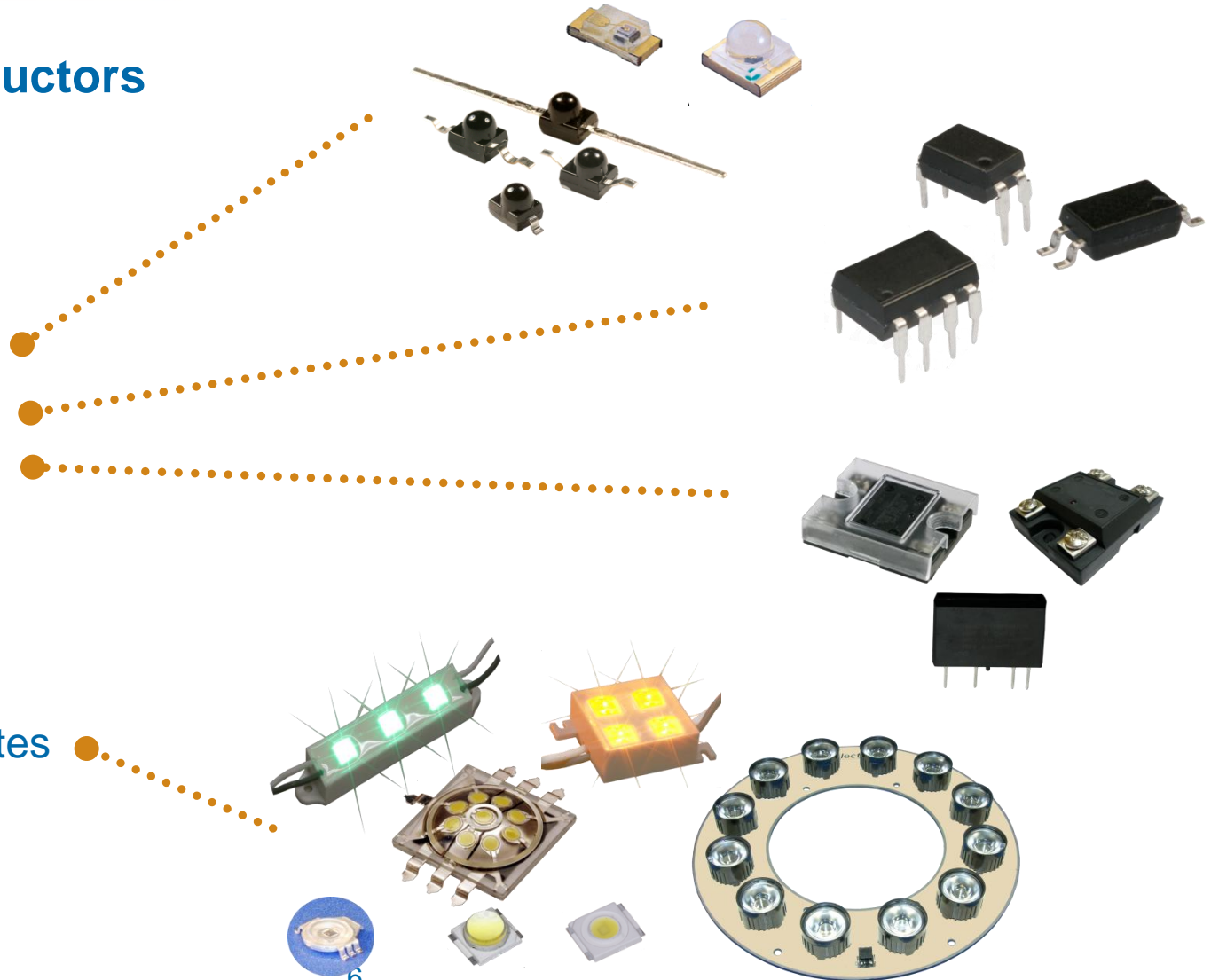
- Custom designs
- Short lead times



## Products: Semiconductors

### Opto-electronics

- Infrared
  - High power
  - High performance
  - Custom solutions
- Visible
  - High performance
  - Custom solutions
  - Innovative substrates

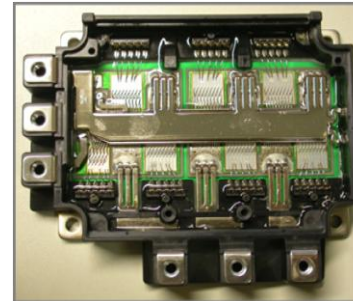




## Products: Semiconductors

### Power Semiconductors

- Custom modules
- Miniaturisation
- High power density
- High ambient temperature



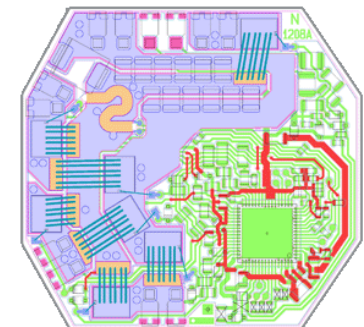
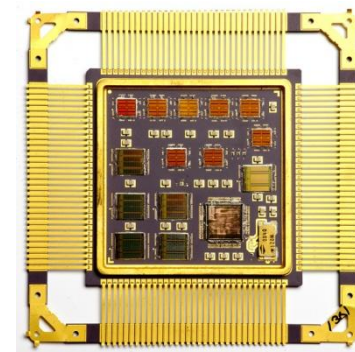
### RF Semiconductors

- Power modules and transistors
- Very rugged
- High linearity



### Microcircuits

- Experts in packaging and layout solutions
- High temperature performance
- Testing capability



## Products: Connectors

### US Military Connectors

- 5 year enabling agreement secured with Unicor Federal Prisons who supply USA military
- Product is supplied to every military vehicle in the US Army



### 38999

- Launched in Q4 2009 utilising Group's low cost manufacturing footprint in Malaysia
- Provides entry to significant global market

### Soldier Connector

- Developed to support soldier applications, GPS, IED protection, radios





## Products: Connectors

### Traction Connectors

- Leading position in design and supply of inter-car coupling
- Supply Bombardier on VLU and SSL London Underground upgrades for 2012 Olympics
- London Underground and SNCF approved connector range for the rail industry
- Each London Underground carriage has £4k - £6k of TT connectors



## Products: Military & Aerospace Harnesses

- Leading position in design and supply of harnesses to USA and UK military truck builders
- Strong position in harnessing for radio communications, detection systems and battle-field power management
- Leading supply to UK MoD on role-fit programmes for military fixed and rotary wing aircraft
- Increasing position on harnesses on new aircraft build for main landing gear and test systems



## Markets Served

Broad End Markets including:

### **Industrial** (including Alternative Energy)

- Power supplies
- Control circuits

### **Aerospace & Defence**


- Aero-engine controls
- Satellites / communications

### **Medical**

- Defibrillators
- Diagnostic

### **Automotive** (including Hybrid Vehicles)

- Inverters / electric motor
- Battery management

- 
- A large, thin, blue curly bracket on the right side of the slide, grouping the market categories on the left with the common requirements on the right.
- Higher power
  - Faster switching
  - Harsher environments
  - Miniaturisation
  - Conversion to electronic systems