Date: 24th April 2014

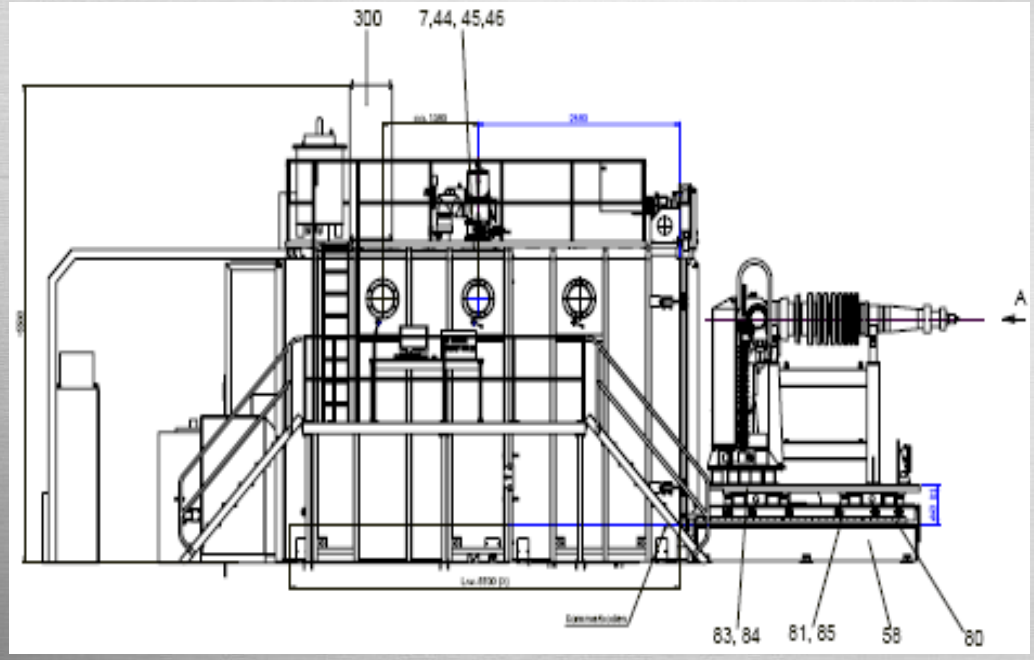
Time: 10:30

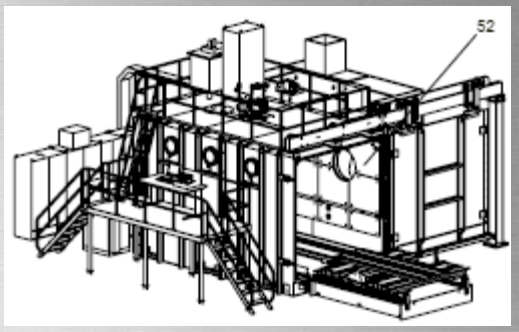
Venue: Studio Room III

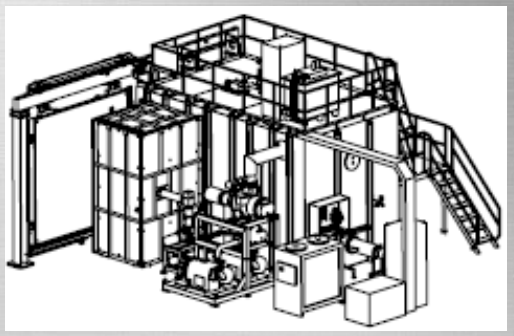
Thank For Your Co-operation

Hi-Tech Manufacturing Business Plan

Electron Beam (EB) Welding Manufacturing







Introduction

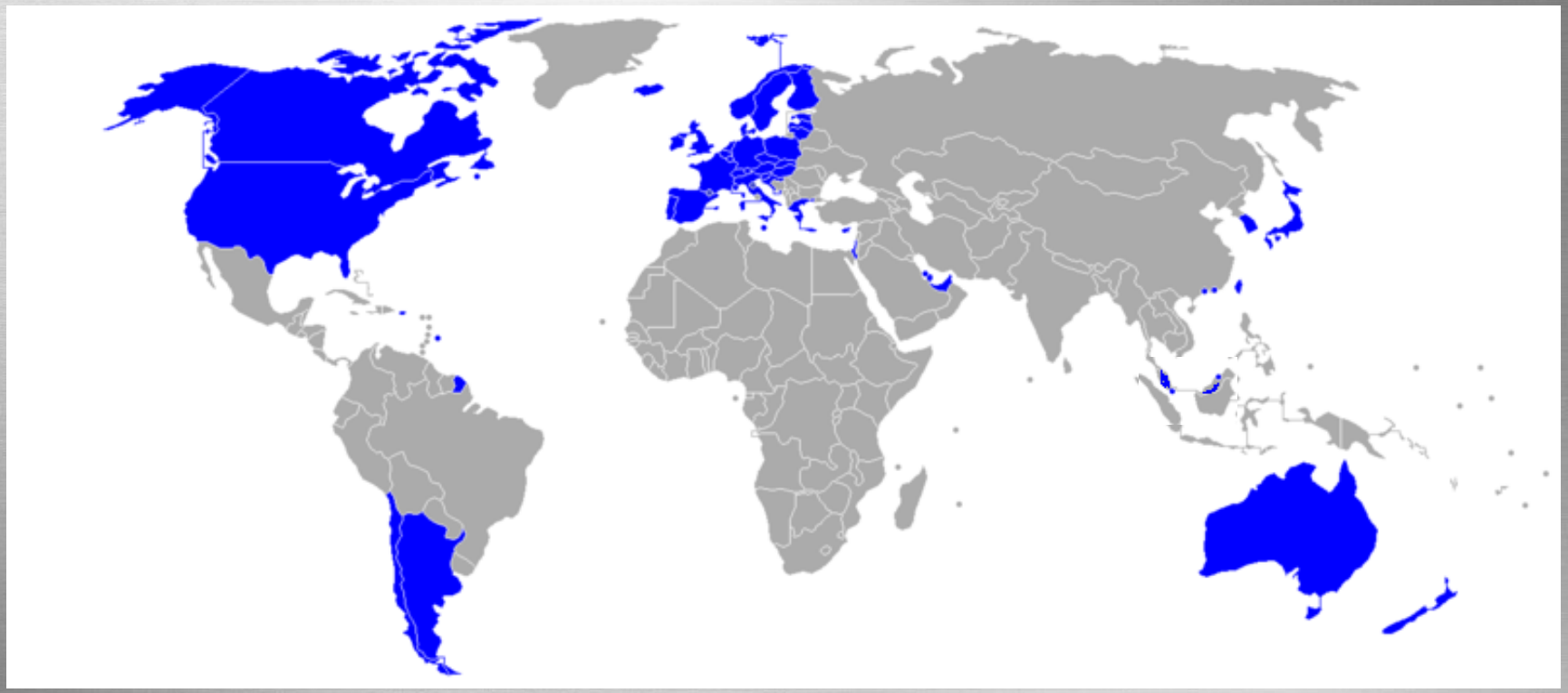
- Project Director: Eric Lam
- Highest Qualification: Msc. EBM (WMG, Warwick U.K)
- Work Field Experience:-
- Oil & Gas : Schlumberger (Asia Pacific Regional HQ)
- Telecommunication : Sacel Madagascar, Africa
- Biggest Project Work : Petronas Regional Satellite Hub
- International Marketing & Trade : Commodity Products
- Investment Consulting : Licensed under FIMM
- NGO Formation : Alumni Society (Vice President)

WMG
Innovative Solutions

THE UNIVERSITY OF
WARWICK

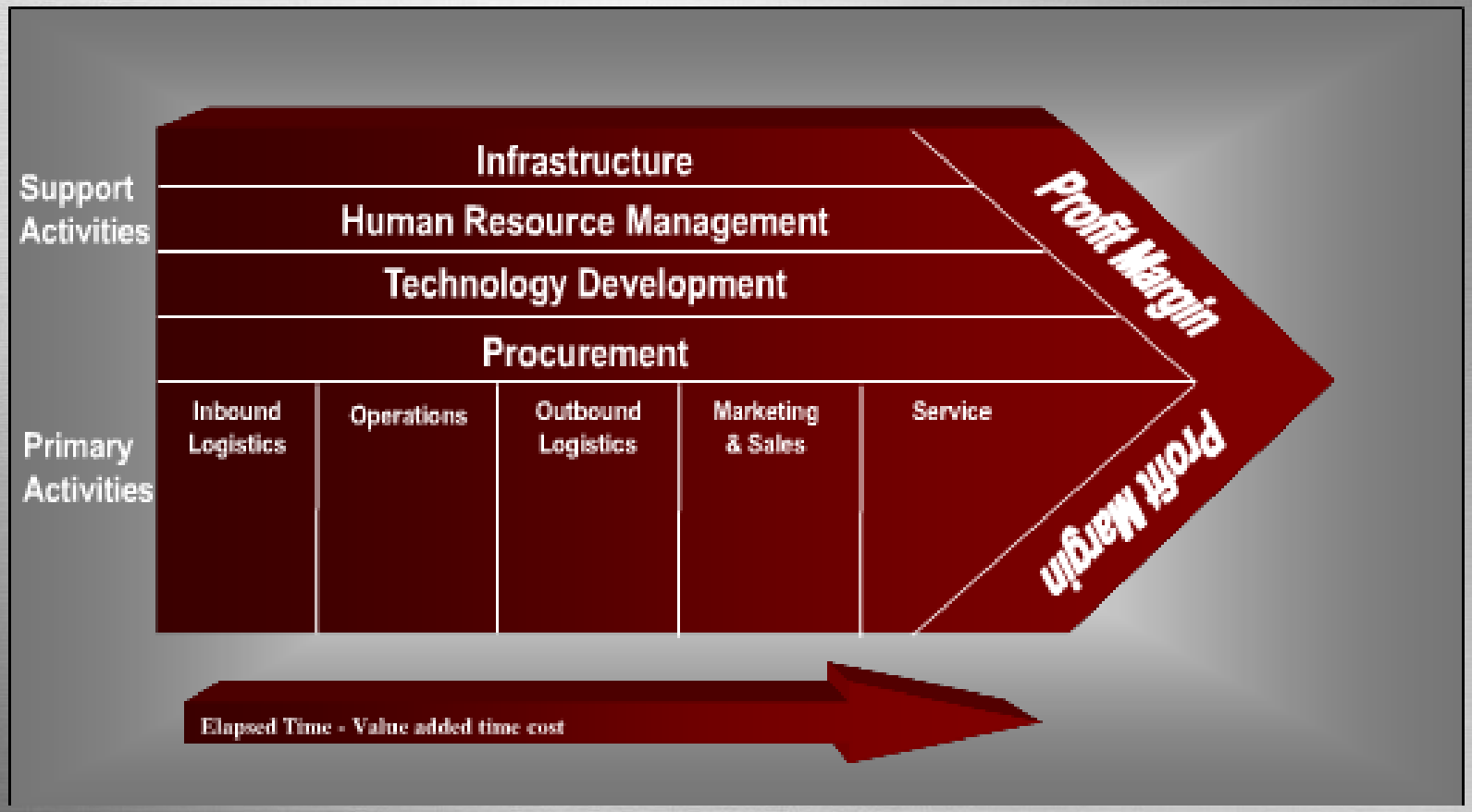
Vision

- Developed Country Development Participation

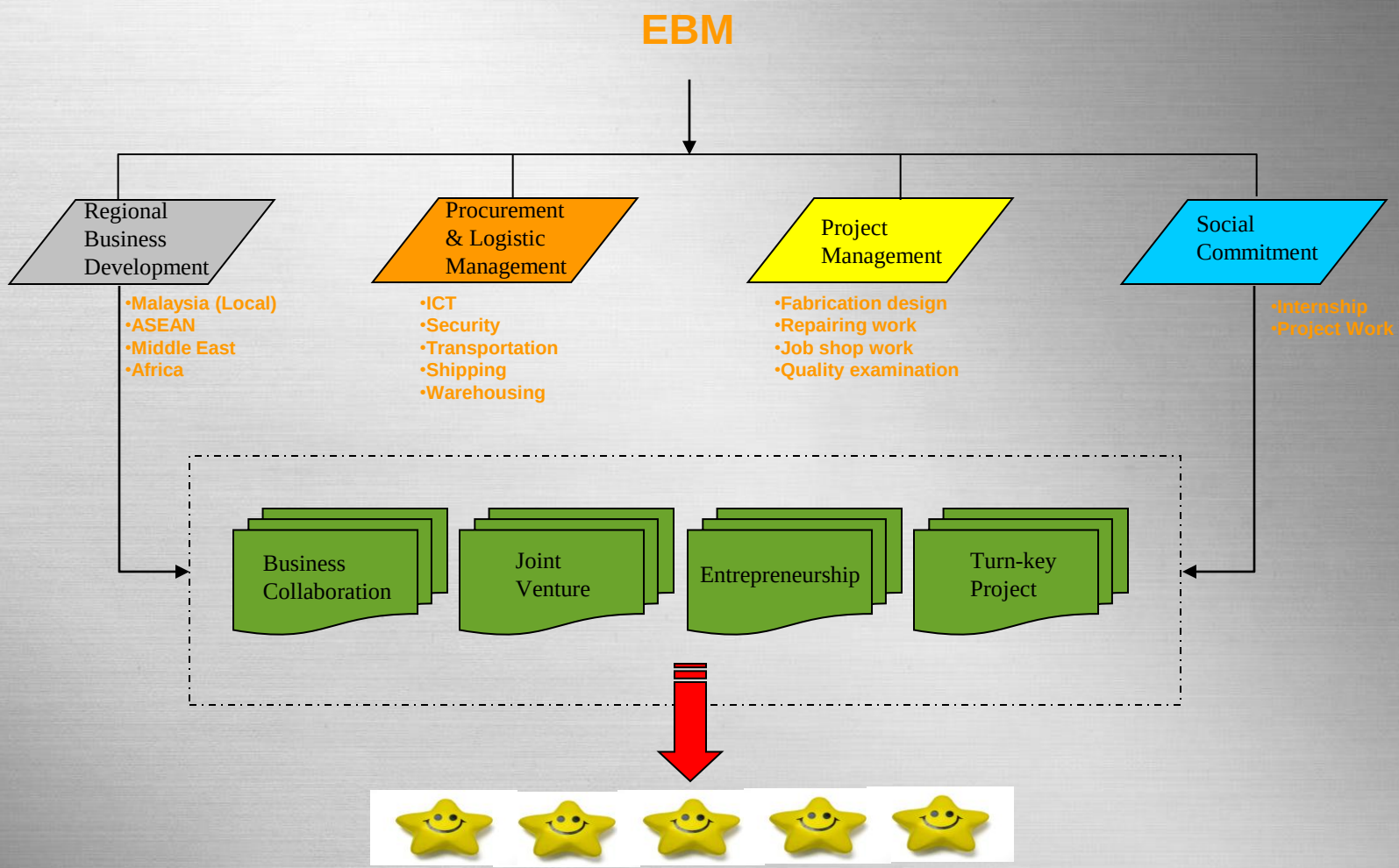


Mission

- World Class Manufacturing Development
- Hi-Tech Knowledge Workforce Development
- Value Chain Business Transformation

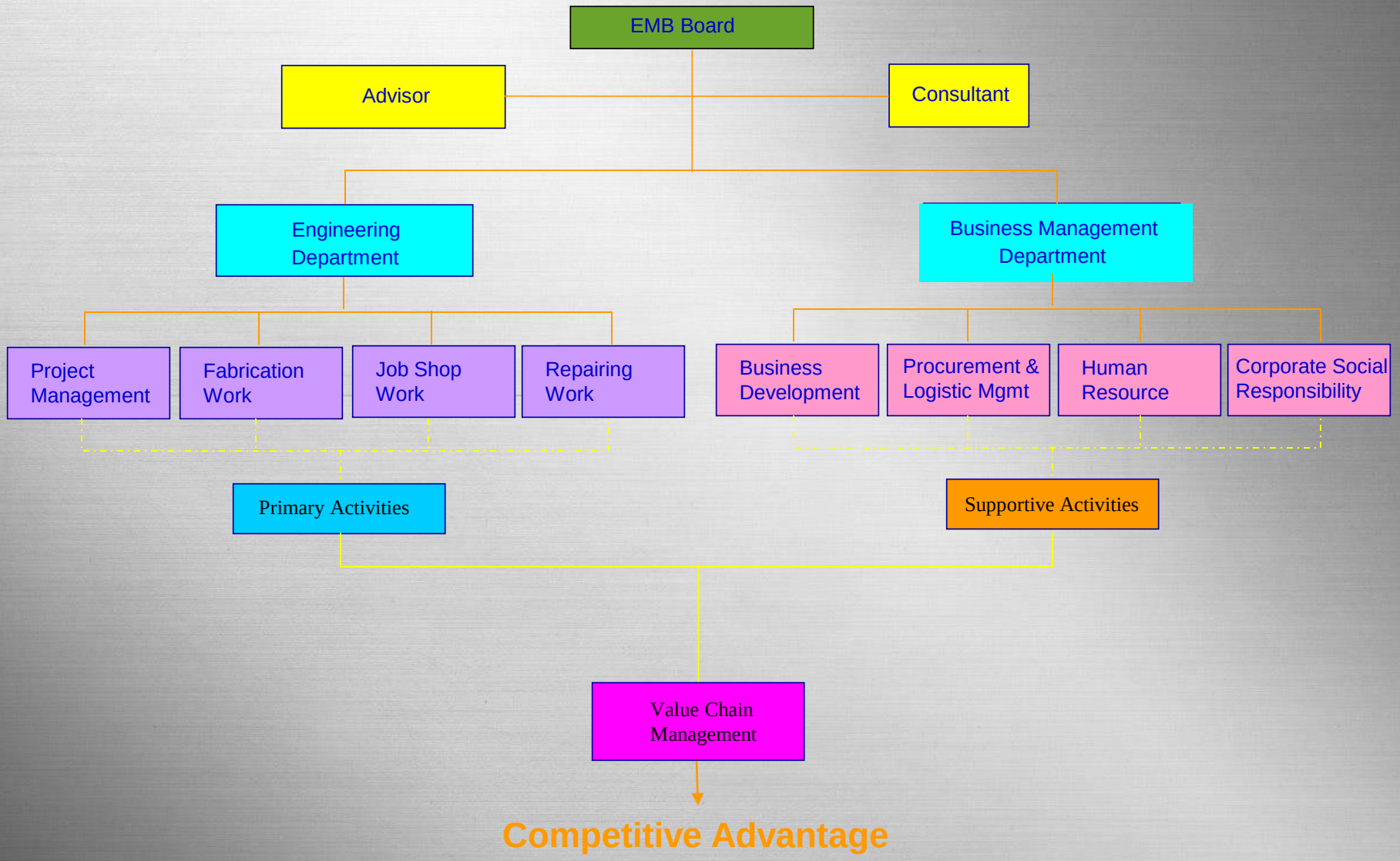


Engineering Business Management (EBM) Plan

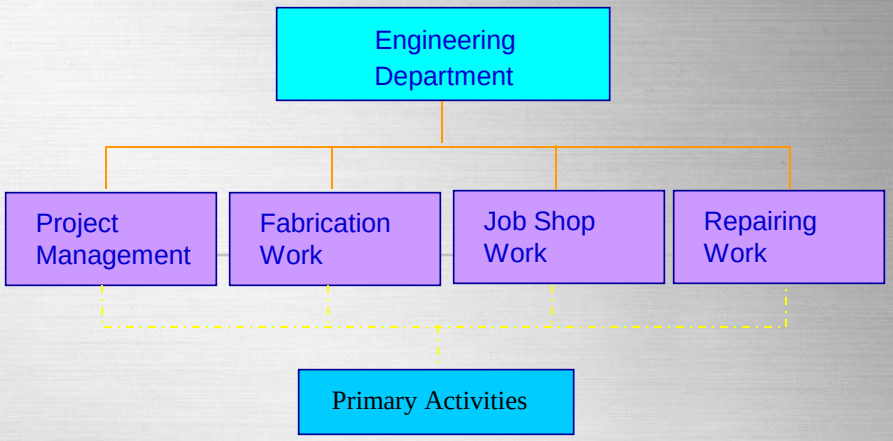


World Class Manufacturing

Engineering Business Management (EMB) Value Chain Organisational Structure



Knowledge Workforce Development Plan



Knowledge & Skill Requirement:

- Min. Diploma/3 years working experience
- Metallurgy
- Mechanical
- E &E
- ICT
- Quality Control
- Project Management

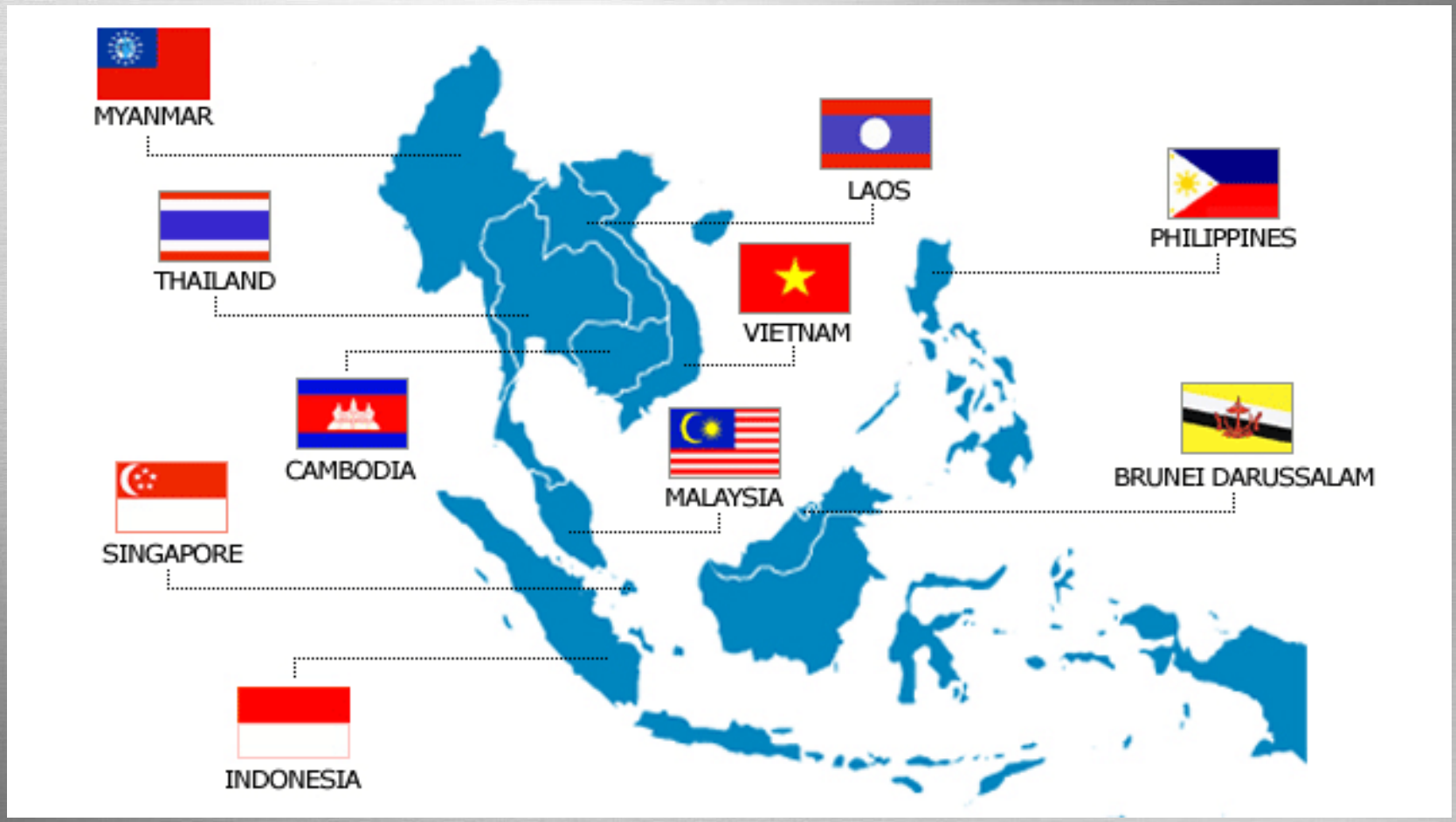
“Knowledge is Power”

Why We Are Here?

- Strategic Location – Strait of Malacca

Why We Are Here?

- Good Diplomatic Relationship - ASEAN



Why We Are Here?

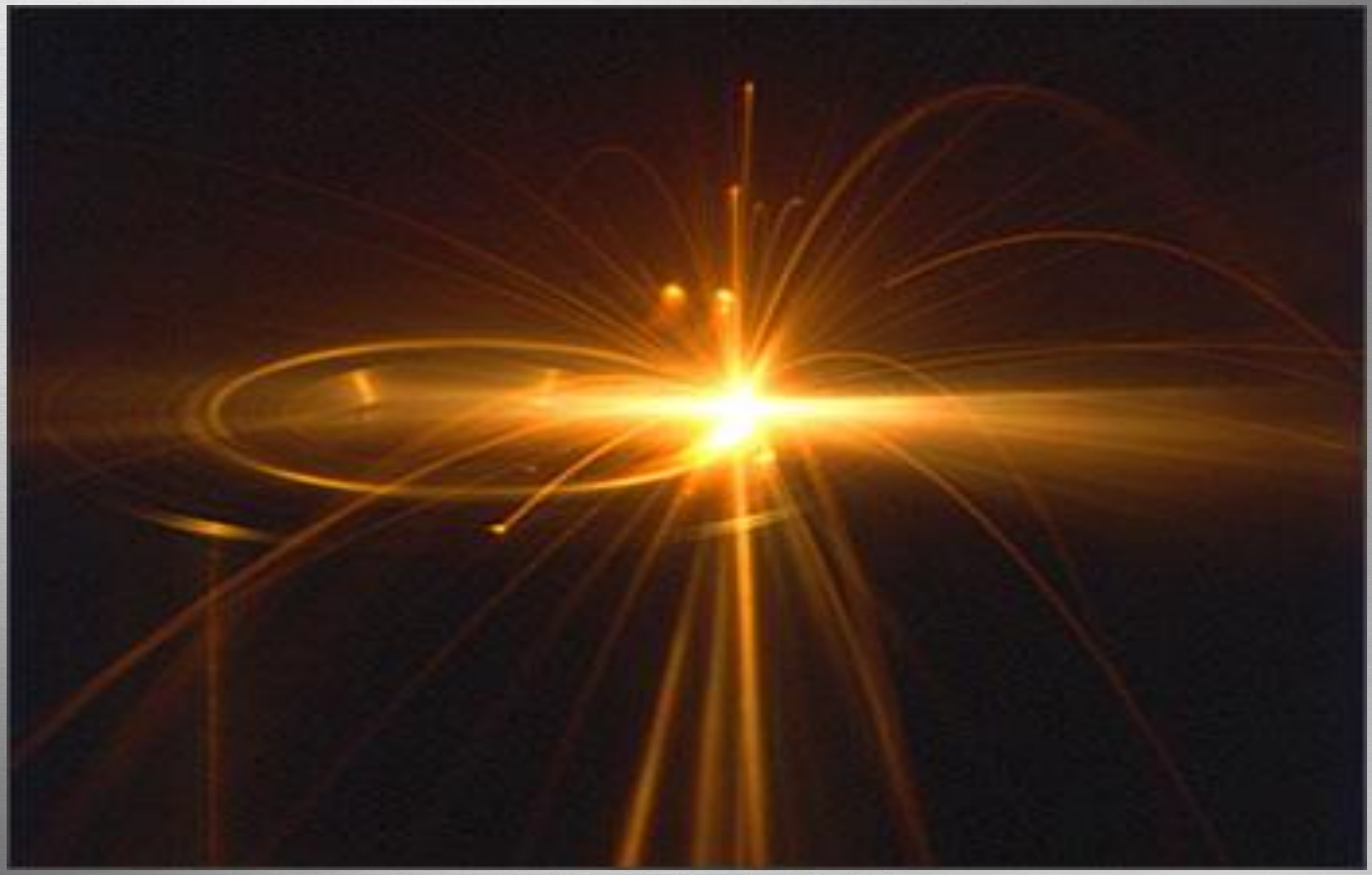
- Niche Market & Less Competitive – Tend to be market leader

Why We Are Here?

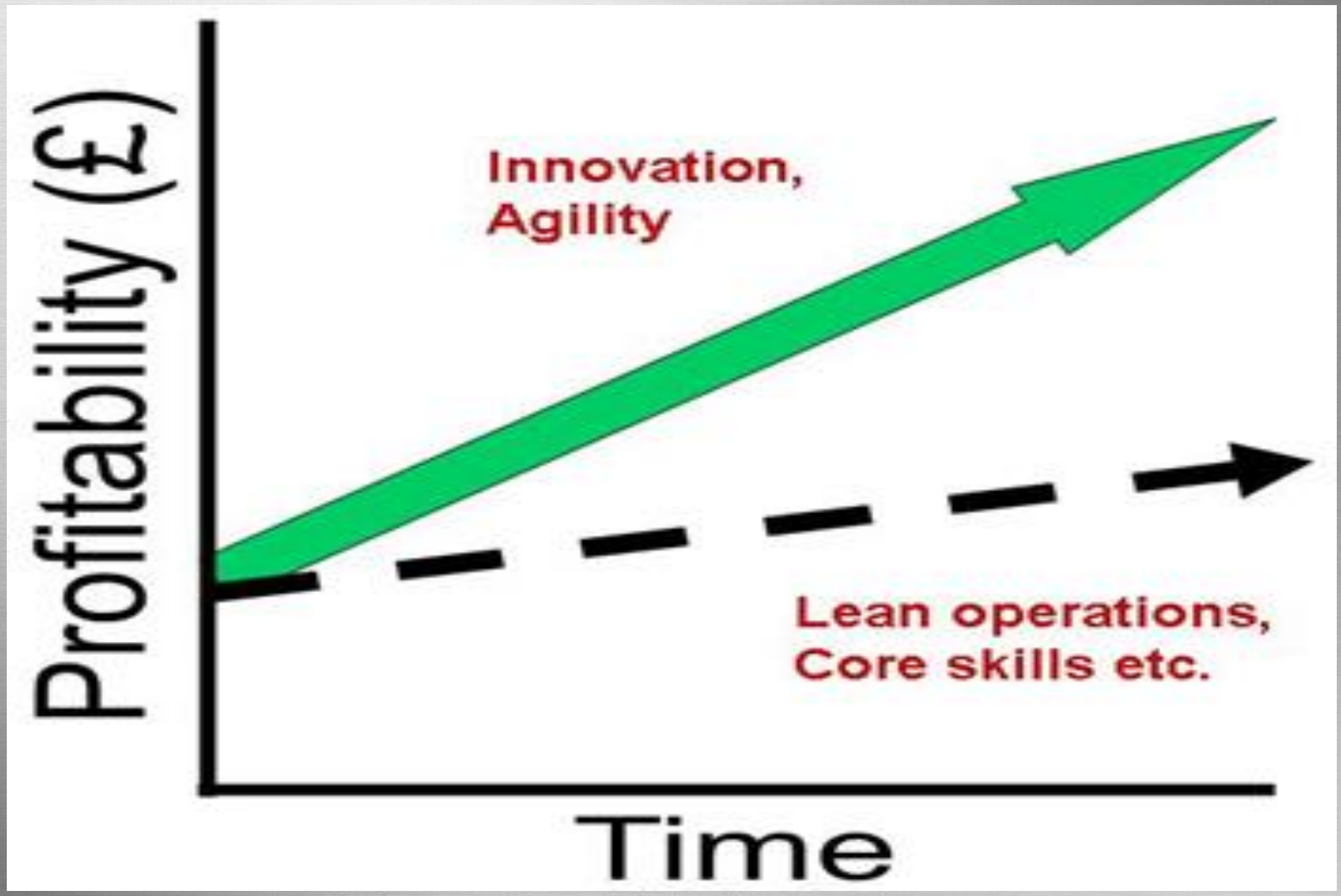
- High potential growth in Oil & Gas work field (Spratlys islands)

Why We Are Here?

- Government pursued go for Hi-Tech manufacturing



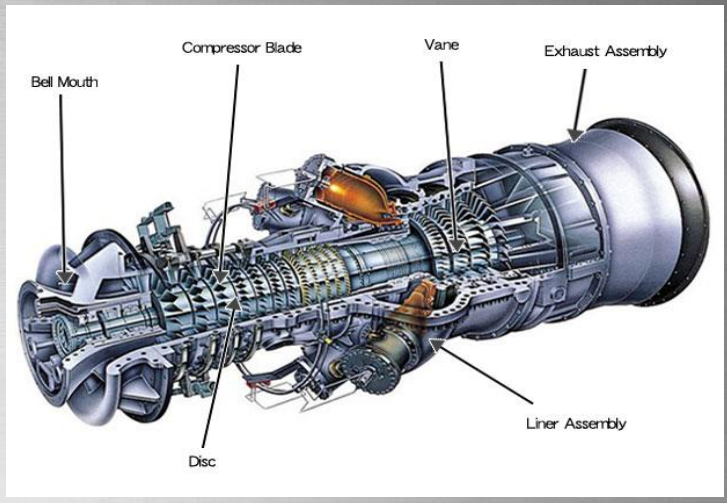
How To Win & Sustain Business Through Technoloy



Market Segmentation

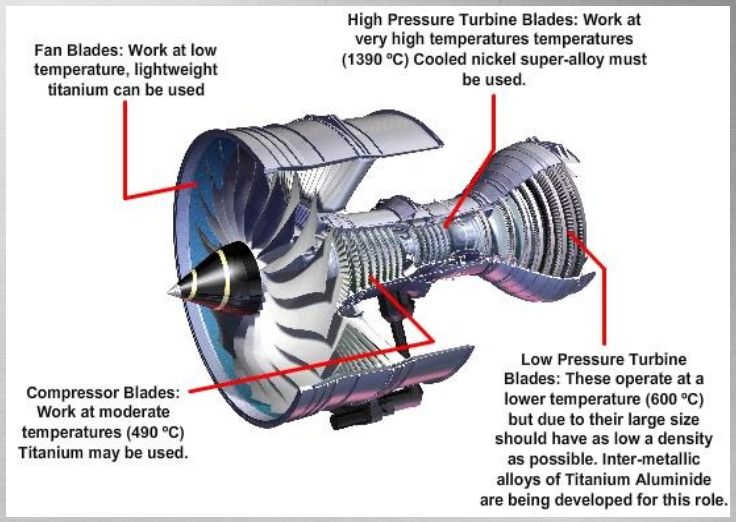
Oil & Gas

Energy Utility (Gas Turbine)



Shipyard

Aviation

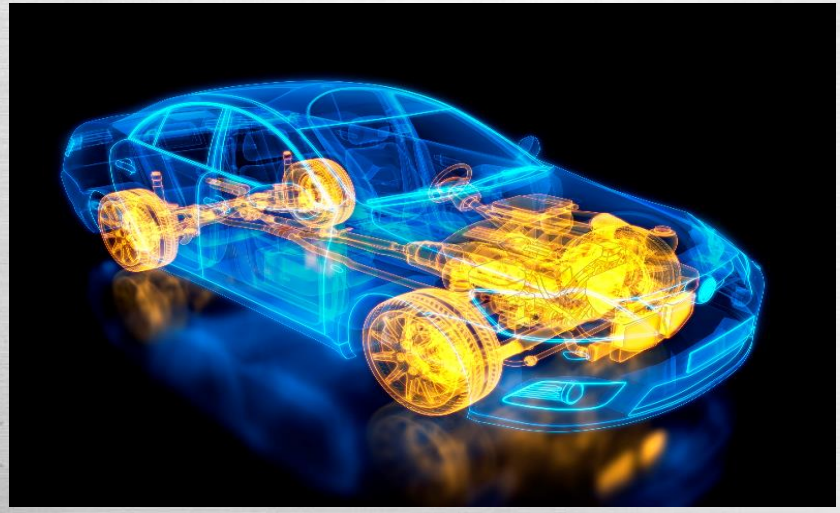


Market Segmentation

Oil & Gas ▪ Sapura Kencana ▪ UMW Oil & Gas Corporation Berhad ▪ Scomi Group Berhad (Scomi) ▪ Aker Solutions ▪ Muhibbah Petrochemical Engineering Sdn. Bhd.	**Energy & Utility (Gas Turbine)** ▪ TNB ▪ YTL Power Generation Sdn. Bhd. ▪ Gas Generators (M) Sdn. Bhd. (Gasterc) ▪ Malakoff Corporation Berhad (MCB)
Shipyard ▪ Muhibbah Marine Engineering ▪ Shin Yang Shipping & Shipyard ▪ Limbongan Batu Maung Sdn. Bhd. ▪ Malaysia Marine & Heavy Engineering Shipyard ▪ MSET Shipbuilding Corporation Snd. Bhd.	**Aviation** ▪ Airod Sdn. Bhd. ▪ Aviation Design Centre Sdn. Bhd. ▪ MHS Aviation Berhad ▪ Mycopter Aviation Service ▪ Westar Aviation Services (WASSB) ▪ Muhibbah Airline Support Industries Sdn. Bhd.

Other Market Segmentation

Automotive



Telecommunication

Locomotive (NewTec RSI)

Others

Your Ask For It!

EB Welding Advantages

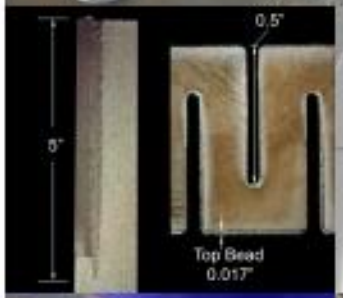
1. **Material Types**
Aluminum, Cobalt, Copper, Dissimilar Metals, Magnesium, Nickel, Refractory Metals, Steel, Titanium, Zirconium, and many more..

2. **Multi-Pool Welding**
EBO Jump high speed beam deflection simultaneous pre-heating, welding, & post-weld heating using the beam

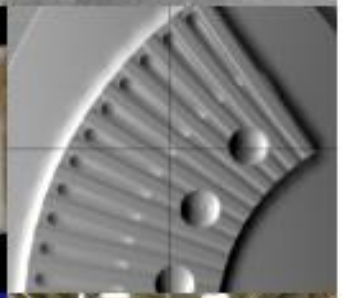
3. **Precise and Repeatable**
5-Axis contouring and closed loop control of all weld parameters

4. **Custom Weld Profiles**
Programmable oscillation patterns for tailored weld cross sections

5. **Shallow to Deep**
Thin foils of 0.005" thick up to 6" deep penetration in a single pass



6. **Electron Optical Viewing**
Magnified scanning electron microscope view of the workpiece



7. **Low Heat Input**
Enables welding close to heat sensitive components

8. **Clean Welding Process**
Vacuum environment ensures an oxygen free welding process

Quality Control Management Planning Work

Quality Control Planning

- Demagnetizing System Tool

Quality Control Planning

- Non-Destructive Testing (NDT) Ultrasonic Test Tool

Quality Control Planning

- Ultrasonic Flaw Detector

Ultrasonic Flaw Detector

Ultrasonic Flaw Detector with colour display for excellent visibility, Auto DAC plotting, Digital Thickness/distance measurements, trigonometric measurements of depth and surface distance in weld inspection, memory of 200 A-scan images and 50 set-up data, RS 232 for PC connectivity with transfer software.

Quality Control Planning

- Magnetic Particle Test Tool

Magnetic Particle Testing Machine

Technical Specifications:

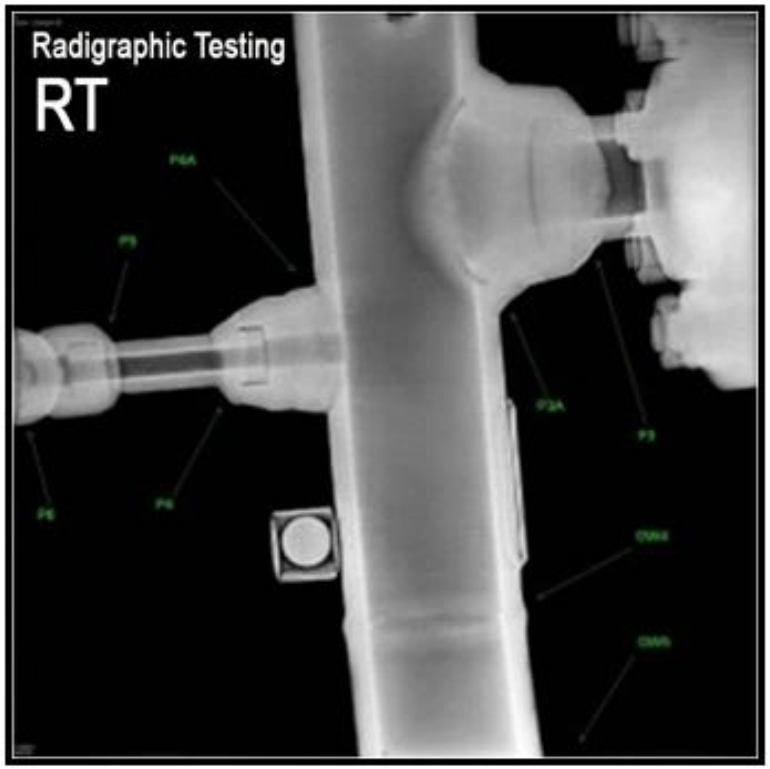
- **Input:** 220 V, 50 Hz, 1 Ph
- **Line Current:** 2 Amps
- **Lifting Power:** at 200 mm Leg Spacing
- 24 Kgs in HWDC
- 7 Kgs in AC
- **Duty Cycle:** 50% (4min, Cycle time)
- **Controls:** ON-OFF; AC-DC
- DC field intensity Potentio Meter

Quality Control Planning

- Radiographic Inspection Test Tool

Radiographic inspection or testing (RT) is a non-destructive inspection method based on using short wavelength electromagnetic radiation passing through the material. Materials with areas of reduced thickness or lower material density allow more, and therefore absorb less, radiation. The radiation, which reaches the film after passing through the material, forms a shadow image on a photographic film (radiograph). **NDTG** provides the following services with this technique:

- **RT Training**
- **RT Consulting**
- **RT Auditing**
- **RT Inspection**



Quality Control Planning

- Phased Array ND Test Tool

Olympus NDT, a world leader and pioneer in industrial ultrasound phased array instrumentation, is pleased to introduce the latest hardware and software advances for the innovative OmniScan MX2 flaw detector.

Olympus now offers a second generation, 2-channel conventional ultrasound module (UT2) that can be used for TOFD (Time-of-Flight Diffraction) inspections. Also updated is the OmniScan MX2's onboard software with numerous TOFD-specific improvements to maximize performance. Together, the new module and software will set a new industry standard for TOFD inspections. TOFD is a unique ultrasonic technique that utilizes time-based signal information for flaw sizing in place of a traditional amplitude-based sizing approach. TOFD can therefore size defects more reliably regardless of the orientation of the crack by utilizing the more consistent time-based information.

Quality Control Planning

- Independent 3rd Party Surveyor – SGS

SGS PROVIDES CRANE & WELDING INSPECTIONS IN AUSTRALIA AND MALAYSIA

MARCH 18, 2013

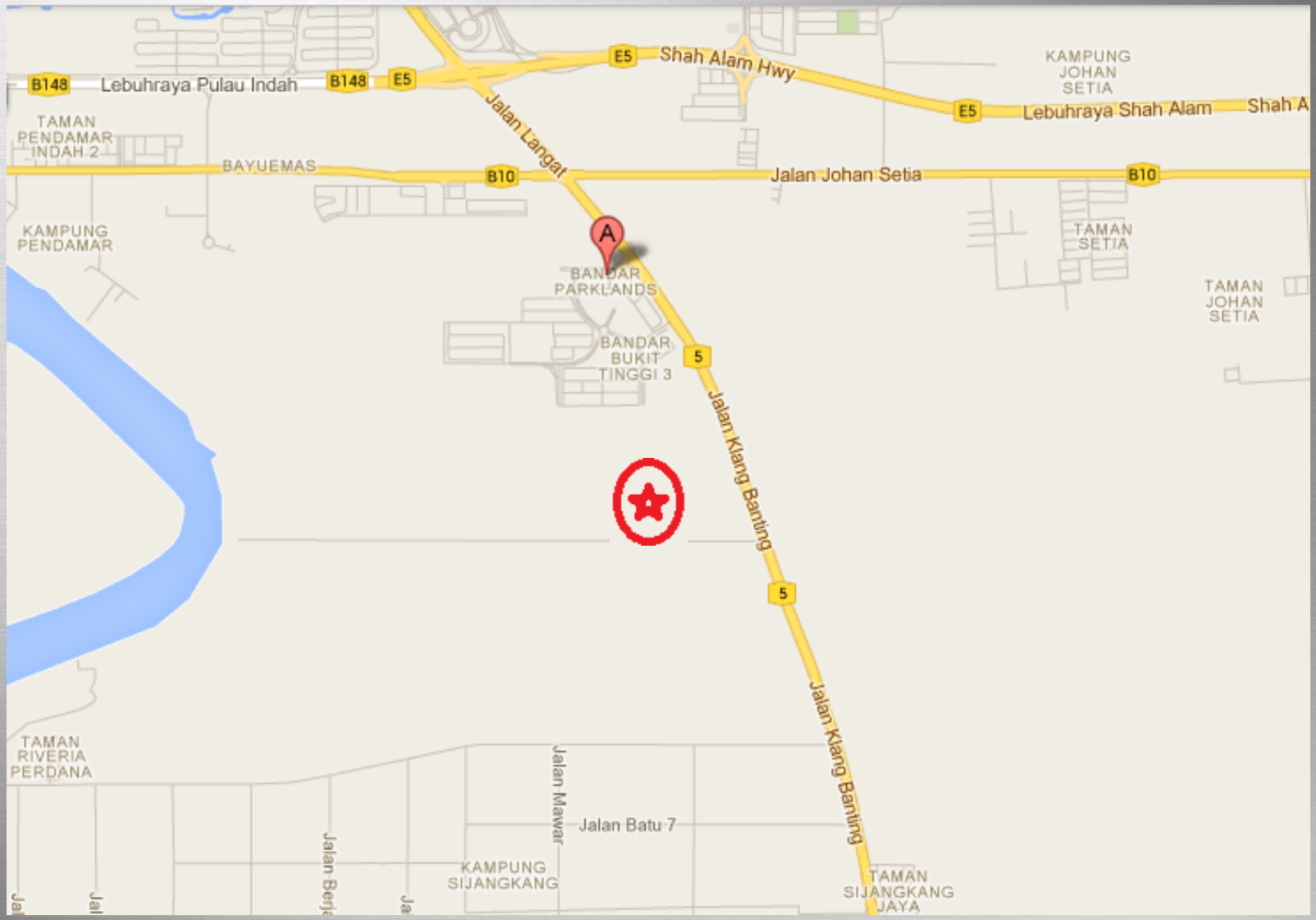
On February 18, 2013, a large energy and petrochemicals company awarded SGS a contract to provide welding and crane fabrication inspections at project sites in Sydney and Kuala Lumpur. Four SGS experts including a lead crane inspector, subsea welding inspector, project coordinator and a project manager will work on the project fabricating heavy duty cranes to be used in shipbuilding yards in Korea. SGS is currently serving this particular client with ongoing packages at projects in Australia, Singapore, Malaysia, the UK, Canada and other countries.

SGS was chosen for this specific project after proving itself a reliable partner delivering overall quality services and due to the extensive SGS experience and competence in projects of this kind.

SGS WELD EXAMINATION

During the twelve-month project, slated to start on February 25, 2013, SGS inspectors will conduct quality assurance and quality control (QA/QC) fabrication inspections according to applicable manufacturing standards. The SGS experts will conduct precise inspections in order to identify, analyse and eliminate failed welds and to assure the safety of heavy duty cranes to be used in the shipbuilding yards. Applying extensive knowledge and experience and utilising a wide variety of testing methods, SGS inspectors will pinpoint discontinuities in welds and recommend solutions.

Where We Are?


B148
Lebuhraya Pulau Indah
B148
E5
E5
Shah Alam Hwy
KAMPUNG JOHAN SETIA
E5
Lebuhraya Shah Alam
Shah A
TAMAN PENDAMAR INDAH 2
BAYUEMAS
B10
Jalan Langat
Jalan Johan Setia
B10
KAMPUNG PENDAMAR
A
TAMAN SETIA
BANDAR PARKLANDS
TAMAN JOHAN SETIA
BANDAR BUKIT TINGGI 3
5
Jalan Klang Banting
5
Jalan Klang Banting
TAMAN RIVERIA PERDANA
Jalan Mawar
Jalan Batu 7
Jalan Berja
KAMPUNG SIJANGKANG
TAMAN SIJANGKANG JAYA

Where We Are?

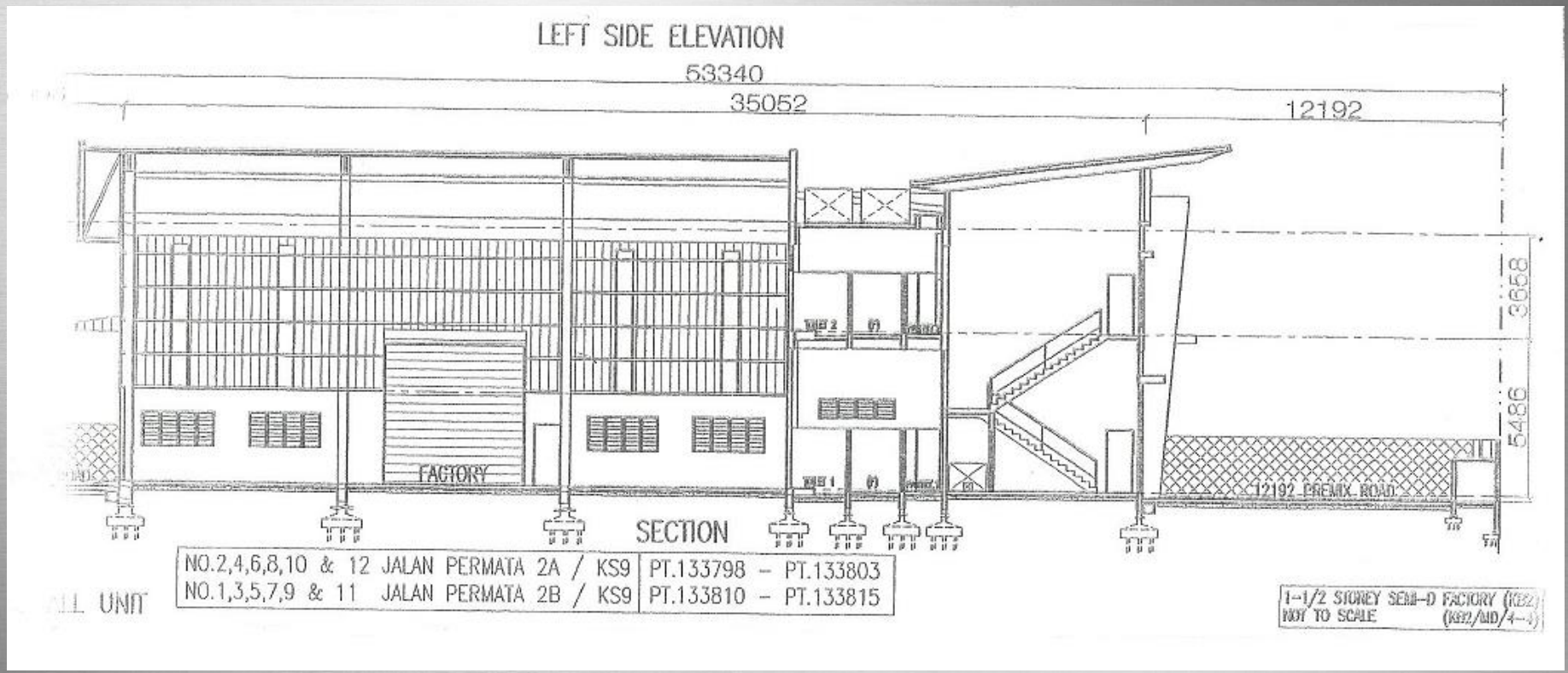
- New Industrial Hub (I-Hub) Location In Port Klang

Where We Are?

- Manufacturing Plant Outlook

Where We Are?

- Manufacturing Plant Floor Plan



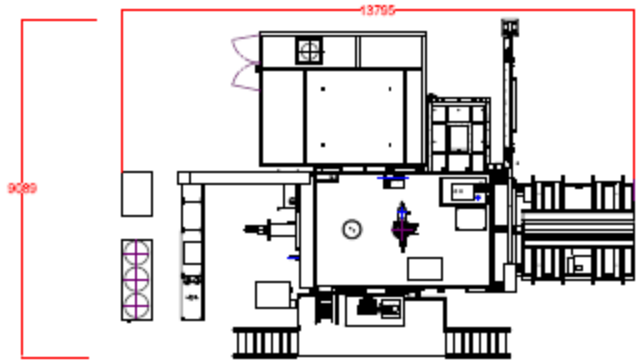
Where We Are?

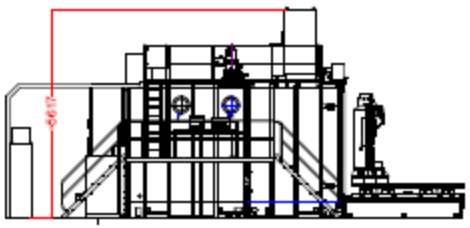
- EB Welding Machine Outlook - SST

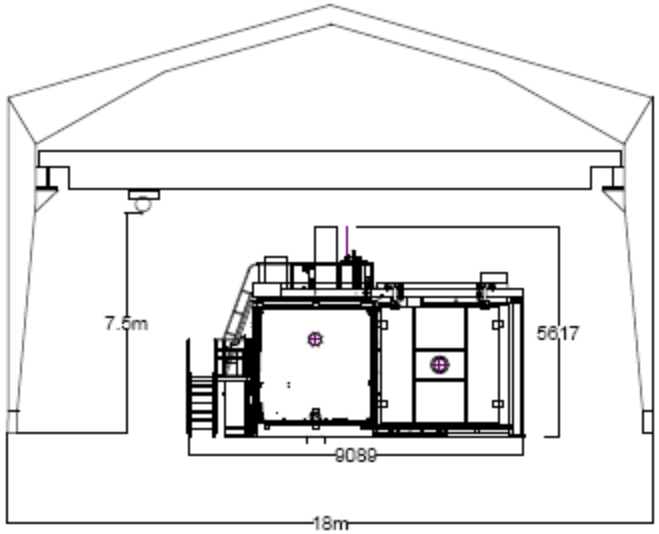
Steigerwald Strahltechnik GmbH (SST) operates worldwide as a partner to the Turbomachinery industry (aerospace, generator and turbine production).

Where We Are?

- Minimum Building Selection Requirement





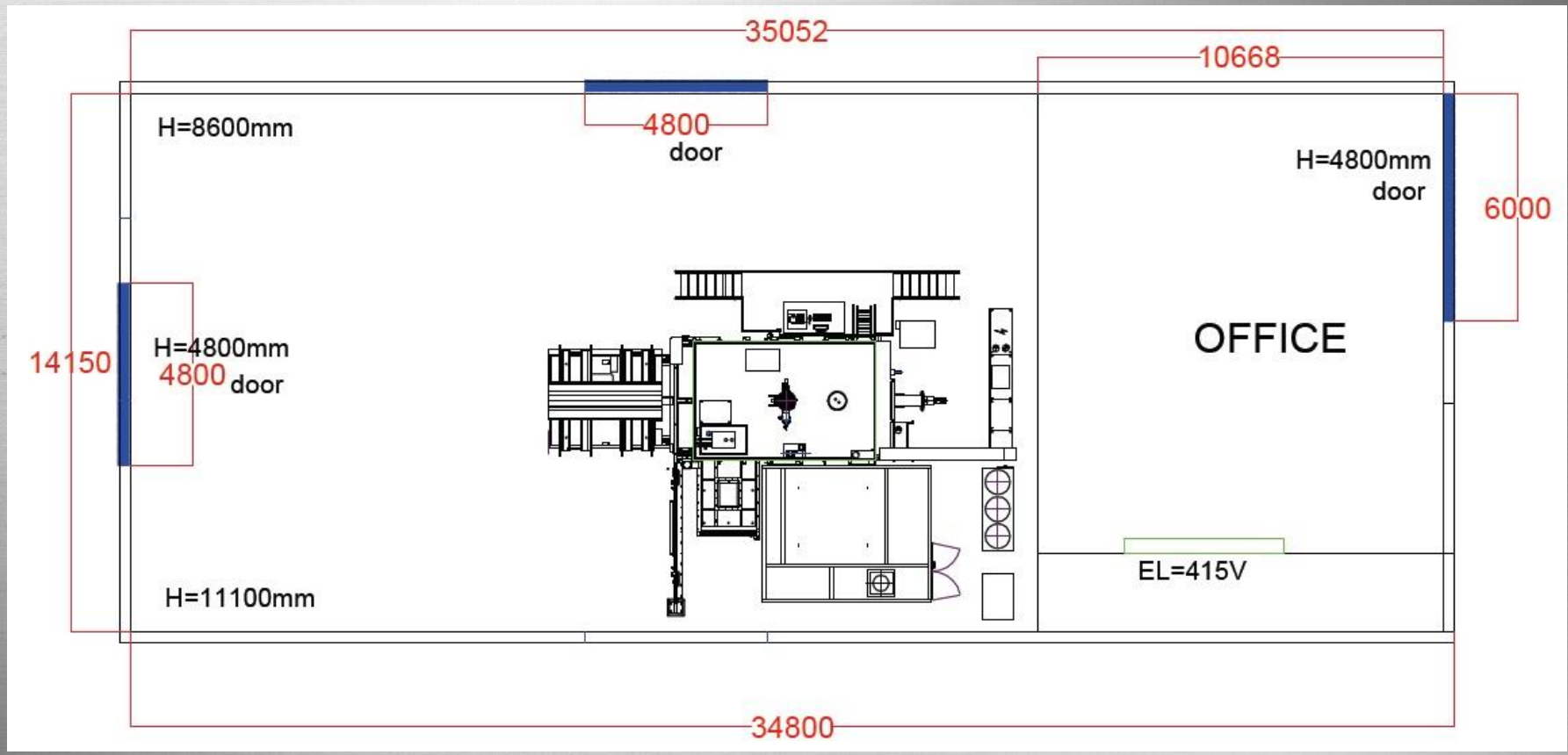


13.8m*9.1m

Dimension
18m*25m
h=7.5m

Where We Are?

- EB Welding Machine Positioning



Manufacturing Production Plant

- Additional Factors For Building Selection
  - **Near to Highway for better land transport cost**
  - **Near to Seaport to lower down the logistics cost**
  - **Near to Power sub-station to reduce power upgrading cost**
  - **Near to Hydrant Water Faucet reduce insurance premium**
  - **New Building less maintenance cost**
  - **Alternative route availability for better logistics delivery**

Business Collaboration Plan

"We"

Engineering & Business Solutions

- Stay Competitive
- Gain Competitive Advantage

World Class Manufacturing

1. Speed
2. Quality
3. Cost
4. Flexible

Industrial Fields

- ✓Energy
- ✓Aviation
- ✓Shipyard
- ✓Oil & Gas

- Repairing
- Fabrication
- Turn-key Project
- Design & Development
- Engineering Education

Personal Data Protection Act

Personal Data Protection Act introduced on Nov 15

Posted on 26 November 2013 - 07:11pm
Last updated on 26 November 2013 - 08:07pm

PUTRAJAYA (Nov 26, 2013): The Communication and Multimedia Ministry today announced that the Personal Data Protection Act 2010 came into force on Nov 15.

The act was introduced specifically for the purpose of preventing the misuse of people's personal data for commercial purposes, said Minister Datuk Seri Ahmad Shabery Cheek.

Those categorised as users of data had until Feb 15 next year to register with the Personal Data Protection Department, he said, adding that it was an offence to disclose personal data to third parties without the consent of the owner.

Ahmad Shabery said the act ensured information security, network reliability and integrity of data protection in the country.

He said Malaysia was the first country among the Asean nations which had enforced such an act, and thus would make a reality of the objective of the transformation of Malaysia into a developed country.

To be continued.....