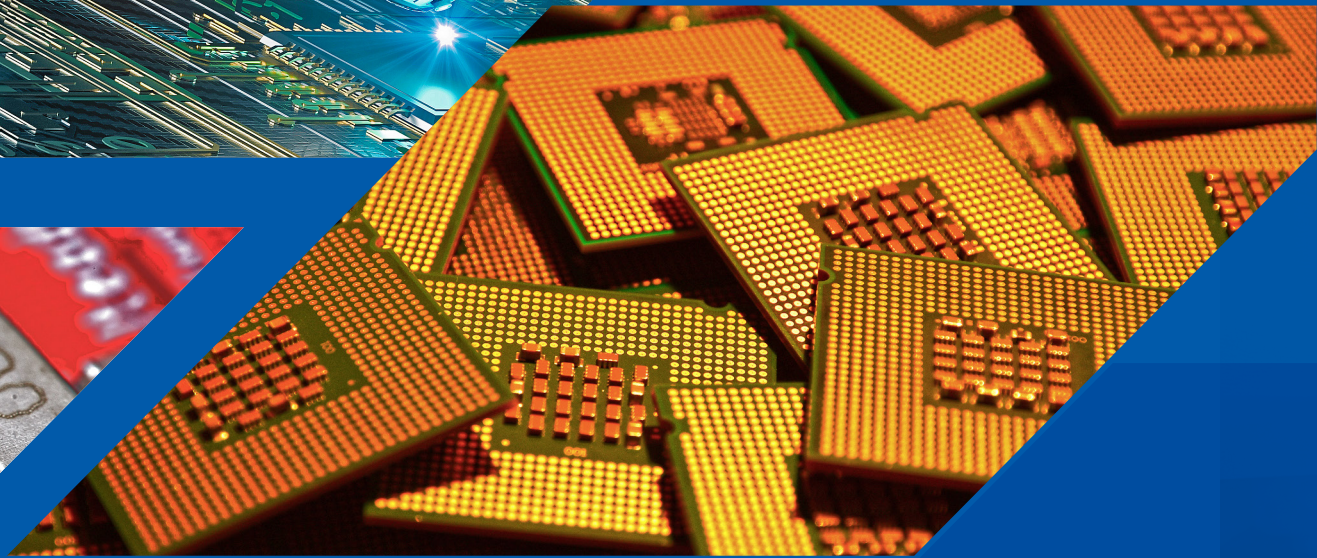
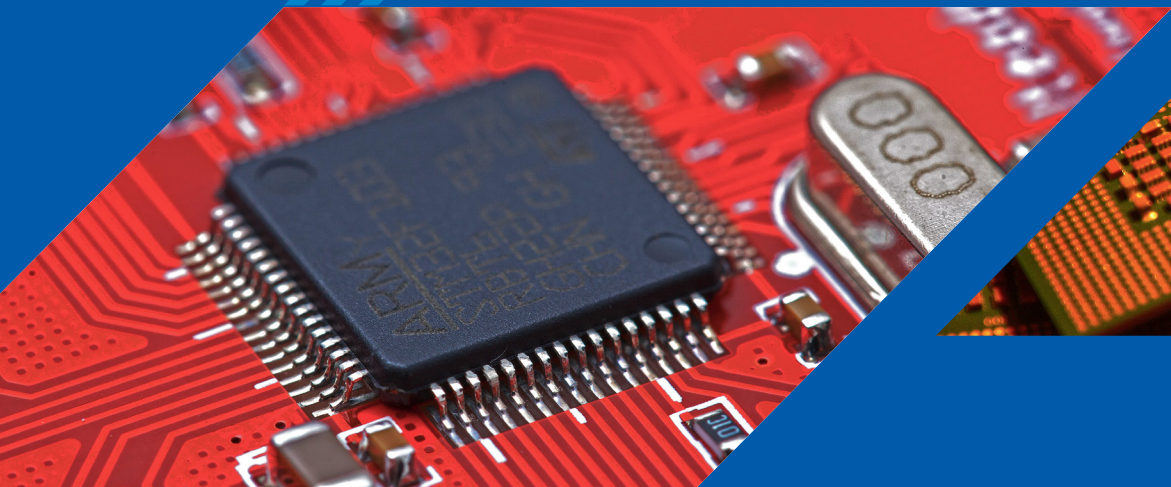




# MALAYSIA'S E&E INDUSTRY



# CONTENTS

- 02 MALAYSIA: A GLOBAL ELECTRICAL AND ELECTRONICS (E&E) PRODUCTS POWERHOUSE**
- 03 FIVE DECADES AND BEYOND**
- 04 EVOLUTION OF MALAYSIA'S ELECTRONICS INDUSTRY**
- 05 FACTSHEET: THE E&E INDUSTRY TODAY**
- 06 E&E AT A GLANCE**
- 07 MALAYSIA'S ELECTRONICS CLUSTERS**
- 08 ELECTRONICS MANUFACTURING SERVICES (EMS)**
- 09 E&E-RELATED ASSOCIATIONS AND CHAMBERS OF COMMERCE**
- 10 DEVELOPMENTS IMPACTING GLOBAL INDUSTRY**
- 11 SUSTAINABLE E&E TALENT POOL**
- 12 EMBRACING THE FOURTH INDUSTRIAL REVOLUTION (INDUSTRY 4.0)**
- 13 VIBRANT LOCAL ECOSYSTEM AND SUPPLY CHAIN**
- 14 OPPORTUNITIES IN E&E SUBSECTORS: SEMICONDUCTORS; LED; SOLAR**
- 15 OVERVIEW: SEMICONDUCTOR ECOSYSTEM**
- 16 OVERVIEW: LED**
- 17 OVERVIEW: SOLAR**
- 18 DECIDE TODAY TO INVEST IN MALAYSIA**
- 20 HOW MIDA HELPS SMOOTH OUT YOUR INVESTMENT JOURNEY IN MALAYSIA**
- 21 NEXT STEPS FOR YOUR INVESTMENT**
- 22 SUCCESS STORIES**

# MALAYSIA: A GLOBAL ELECTRICAL AND ELECTRONICS (E&E) PRODUCTS POWERHOUSE

Records of a well-rooted industry

**E&E is a key driver of Malaysia's industrial development, contributing significantly to GDP growth, export earnings, investment, and employment, thus stimulating the growth of new economic clusters, particularly in relation to manufacturing-related services such as testing and engineering, as well as trade services-related global hub activities**

Malaysia's diverse electrical and electronics products (E&E) industry is in its fifth decade of operations, having started with just eight component production companies in the 1970s (also known as the "8 Samurais"). The companies were National Semiconductor (now Texas Instruments), Intel Malaysia, Hewlett-Packard (now Agilent), Advanced Micro Devices (AMD), Bosch, Clarion, Litronix (now Osram) and

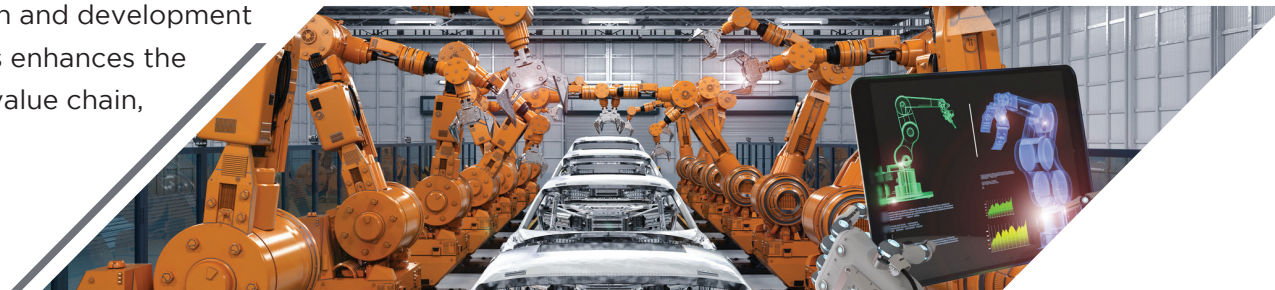
Hitachi (now Renesas). This mature industry continues to grow with the adoption of new, innovative, and advanced technology. Malaysia today is a major player in the fast-expanding E&E market, of which major export destinations include Singapore, Hong Kong, the USA, PRC, Japan and Europe. Local industry champions operate alongside multinational companies (MNCs) from the USA, Japan, the Republic of China (Taiwan), the Republic of Korea, and a number of European countries, manufacturing products ranging from semiconductor devices to consumer and industrial electronics.

The industry acts as a catalyst in the development of all other industries due to its propensity for innovation, firm commitment to capital investment, and substantial funding for research and development (R&D). This enhances the industry's value chain,

the development of a pool of product design talent, and the training of employees who can address issues such as Intellectual Property (IP) protection, licensing, and R&D spending.

- Clarion
- Osram
- Advanced Micro Devices(AMD)
- Renesas
- Texas Instruments
- Intel Malaysia
- Agilent
- Bosch

Also known as the **8 Samurais**, these were the first foreign E&E companies to set up production facilities in Malaysia



# FIVE DECADES AND BEYOND

**1970s**

Malaysia attracted E&E investments through labour-intensive projects aimed at reducing unemployment, supported by a business-friendly government. Manufacturers concentrated on simple E&E components, semiconductor parts, and semi-knocked-down (SKD) electrical products.

**1980s**

As the local companies matured and gained experience, the industry's sophistication in machining equipment grew in tandem. The companies began to manufacture consumer electronics parts and components and took on assembly-related work. The surge of demand for consumer electronics ensured that E&E manufacturing was on an upward trajectory.

**1990s**

Companies began to establish design and development (D&D) centres to engage in semiconductor packaging development, manufacturing process development, and design activities. Among the manufactured goods that dominated the era were office and computer equipment – including disks – to cater to the booming PC market demand.

**2010**

Malaysia moved up the value chain. To stay competitive, E&E factories evolved from high-volume, low-mix operations to high-mix, low-volume operations. Wafer fabrication companies continued to establish and expand their facilities in Malaysia, further positioning the nation among the global top E&E exporters catering to the regional and global demand for semiconductors.

**Current**

The Government through MIDA has been encouraging manufacturers to establish more R&D and D&D centres, centres of excellence, global procurement centres, logistic centres, and OHQs in Malaysia. E&E manufacturers are currently exploring the business potential that can be derived from new growth areas such as E-Commerce, Automation, IoT, and AI, accelerating the move towards Industry 4.0 by society and industry alike. Today, IoT is pushing demand for more advanced semiconductor devices such as sensors, resistors, and transceivers, to help the industry to adopt digitisation and digitalisation aimed at improved productivity, profit, and competitiveness.

**Future**

The E&E manufacturing space is evolving, as more and more companies move into more knowledge-intensive, hi-tech, innovative, and higher-value-add activities. With the availability of a sophisticated talent pool – such as in the integrated circuit (IC) design segment – Malaysia is ready to shift forwards into the development of autonomous vehicles, smart machines, and robotics, among other things. AI provides huge future opportunities as the key technology that will drive the emergence of a fully-connected Industry 5.0 society and economy. AI's future dominance will help communities to make accurate decisions due to precise forecasting capabilities and business process optimisations. Future industry megatrends are forecast to be shaped heavily by the advancements made by Industry 4.0 pillars.

# EVOLUTION OF MALAYSIA'S ELECTRONICS INDUSTRY

## E&E industry in Malaysia:

Started in 1970 with 8 Companies



Consumer electronics:  
Clarion and Bosch

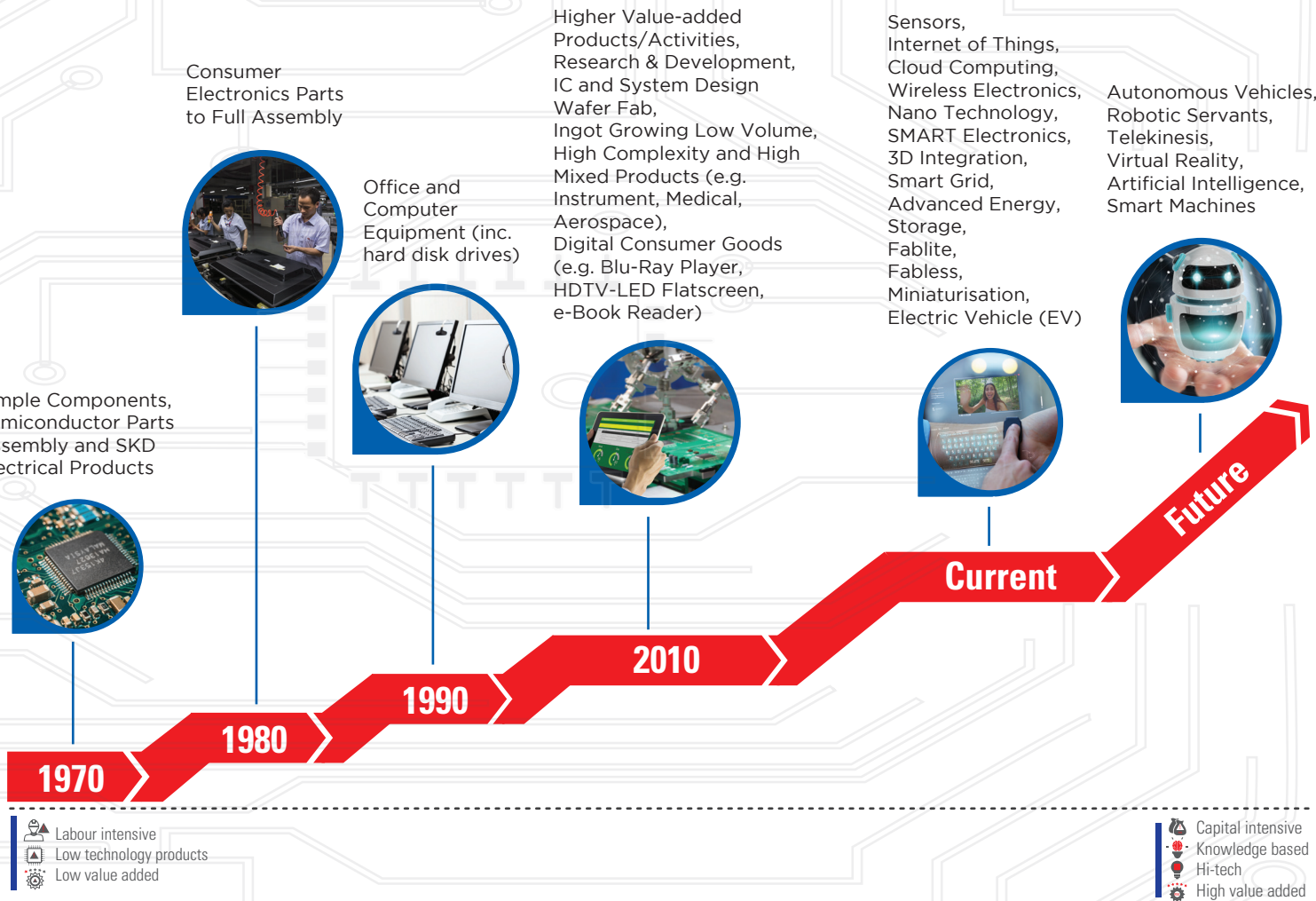
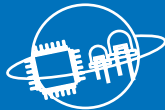


Components:  
AMD, Agilent, Intel, Osram, Renesas and Texas Instruments



Malaysia ranks 7<sup>th</sup> in Global E&E exporters

(World Trade Atlas)



- Labour intensive
- Low technology products
- Low value added

- Capital intensive
- Knowledge based
- Hi-tech
- High value added

# FACTSHEET: THE E&E INDUSTRY TODAY

## 2021

## 2022

Foreign Investment (FI)

**RM146.3 billion**

Domestic Investment (DI)

**RM1.7 billion**

**94**

Number of Approved Manufacturing Projects

**28,362**

New Jobs

Total Approved Investments

**RM148 billion**

Foreign Investment (FI)

**RM27.9 billion**

Domestic Investment (DI)

**RM1.4 billion**

**106**

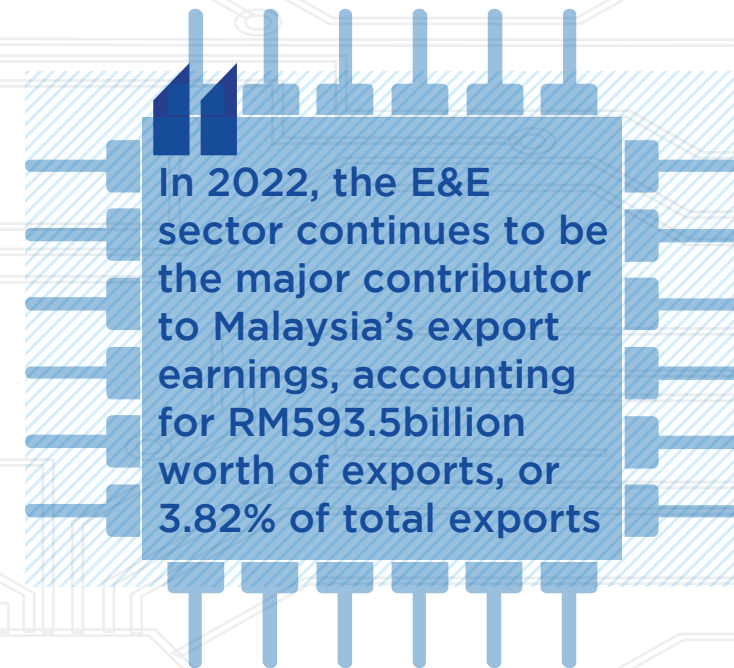
Number of Approved Manufacturing Projects

**27,072**

New Jobs

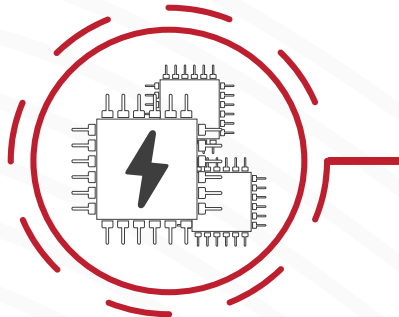
Total Approved Investments

**RM29.3 billion**



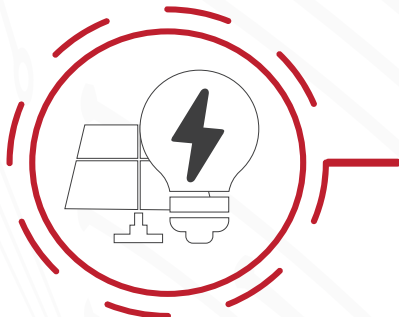
# E&E AT A GLANCE

Malaysia's comprehensive E&E ecosystem includes companies ranging from local SMEs to large local corporations (LLCs) and foreign MNCs. These companies produce a variety of E&E products across all industry segments and subsectors.



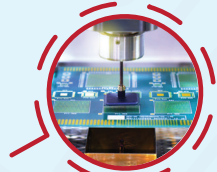
## Electronics

---



## Electrical

---



### Components

Semiconductors, passive components, printed circuit boards, metal stamped parts and precision plastic parts



### Consumer

Audio video products such as television receivers, infotainment products, speakers, cameras and electronic games



### Industrial

Multimedia and IT products such as computers and computer peripherals; telecommunications equipment; office equipment; and box built products for industrial applications



### Electrical

Distribution boards, control panels, switching apparatus, lighting, transformers, cables and wires, primary cells and batteries, solar cells and modules, air conditioners, household appliances

# MALAYSIA'S ELECTRONICS CLUSTERS

## PULAU PINANG

### IC/ Package/ Test design

Intel Bavsand UST Global  
Microsemi Phisontech IDT  
Oppstar Infinecs Experior

### Semiconductor back end

Osram Intel TF-AMD  
IDT Avago ASE  
Fairchild Renesas Analog  
Inari Globetronics

### Components/ Module/ System/ Device/ EMS

Venture Plexus Knowles  
WD Media Flextronic Jabil  
Sanmina Amphenol Smart Modular  
Benchmark Sandisk Nationgate

### Product & Equipment

Keysight NI Malaysia HP  
Agilent LDA Bosch Clarion  
Aemulus

### LED

Lumileds Osram Globetronics

### Solar

Jinko

## KELANTAN

### LED

Rohm Wako

## KEDAH

### IC/ Package/ Test design

Whizz

### Semiconductor front end

Osram Fuji Electric Infineon  
Silterra

### Semiconductor back end

Intel Fuji

### Components/ Module/ System/ Device/ EMS

Sharp Celestica Smartrac  
BCM

### Solar

First Solar Risen

## PERAK

### Semiconductor back end

Carsem Unisem

### Components/ Module/ System/ Device/ EMS

Murata Coherent K-One  
Salutica

## TERENGGANU

### LED

Avialite

## SELANGOR

### IC/ Package/ Test design

KeyAsic Symmid IC Microsys

### Semiconductor front end

S.E.H MEMC MIMOS

### Semiconductor back end

Freescale TI Amkor

### Components/ Module/ System/ Device/ EMS

Sensata Betamek Success

### Product & Equipment

Panasonic Sony Sharp  
Samsung

### LED

Nichia My LED

### Solar

Longi Hanwha Q Cells

## NEGERI SEMBILAN

### Semiconductor front end

On Semi

### Semiconductor back end

On Semi Nexperia

### Components/ Module/ System/ Device/ EMS

Alps TDK

### Product & Equipment

Samsung

## MELAKA

### Semiconductor front end

Testhub

### Semiconductor back end

Infineon TI

### Components/ Module/ System/ Device/ EMS

Maruwa TDK  
Vishay Semiconductor

### Product & Equipment

Panasonic

### LED

Dominant Opto

### Solar

Sunpower

## JOHOR

### Semiconductor back end

ST Micro Micron

### Components/ Module/ System/ Device/ EMS

Flextronics Celestica WD  
Media Seagate Foxconn  
IPEX Global Manufacturing  
V.S. Industry SKP SMT

### Product & Equipment

Panasonic

## SARAWAK

### Semiconductor back end

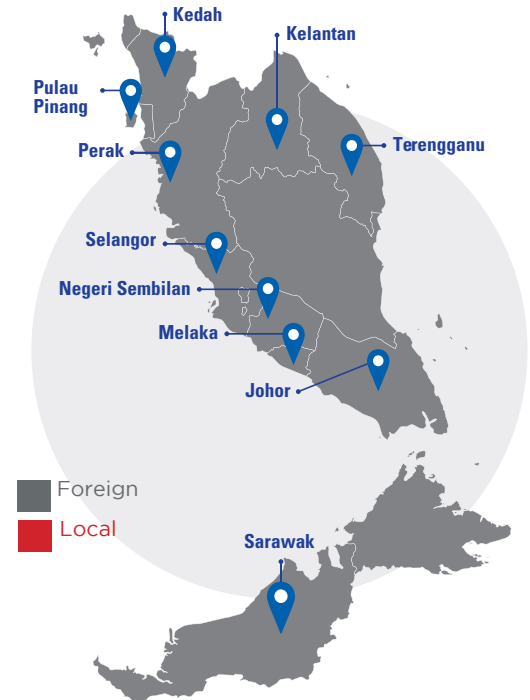
X-Fab Melexis

### Components/ Module/ System/ Device/ EMS

Taiyo Yuden HGST

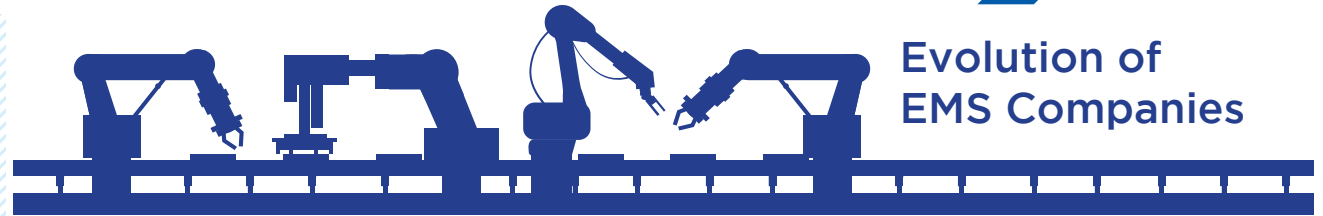
### Solar

Longi

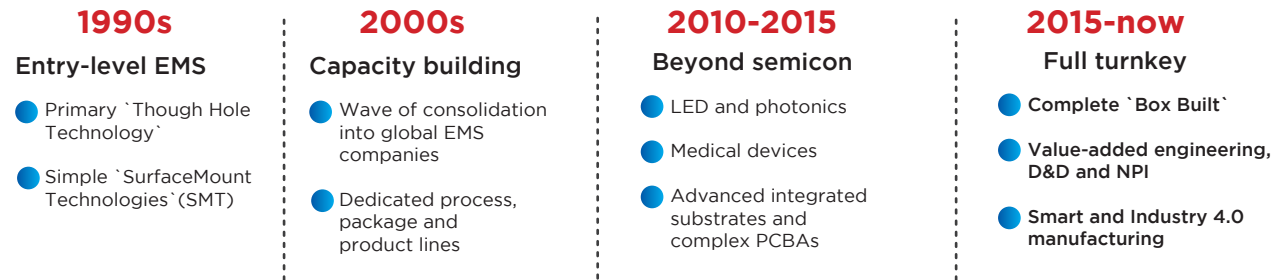


# ELECTRONICS MANUFACTURING SERVICES (EMS)

EMS companies are strategic partners to larger original equipment manufacturers (OEMs), offering end-to-end manufacturing solutions via the assembly of products/modules and providing contract manufacturing services to their clients. They have since become turn-key providers, offering a variety of value-added engineering services such as D&D and new product introduction. They offer a full range of integrated vertical capabilities, from conceptualisation and software to design and product development. Today, EMS companies manufacture a broad range of equipment across various industries, including medical, aerospace, oil and gas, automotive, and information and communications technology (ICT).



## Evolution of EMS Companies



## Services (EMS) Companies in Malaysia



### Initially

- Contract manufacturers
- Low mix, high volume production, eg. PCBAs
- Advantages:
  - Economies of scale
  - Production flexibility
- Disadvantages:
  - Low value-add
  - Labour intensive
  - Low profit margin
  - High risk

### Today

- Vertical capabilities from conceptualisation, software and design to product development
- Equipment manufacturers for applications in medical, aerospace, oil and gas, automobile and ICT

Flex  
Celestica  
Jabil  
Plexus  
Sanmina  
Vertex  
Benchmark Electronics



# E&E-RELATED ASSOCIATIONS AND CHAMBERS OF COMMERCE

The E&E industry is represented by a number of related associations that cooperate with the chambers of commerce that, in turn, represent industry players as part of the overall ecosystem. These chambers of commerce and trade associations, together with other industry-specific groups, also provide venues for information sharing, develop relevant standards, promote the industry’s interests, and formulate codes of conduct and best practices.

MIDA collaborates with these associations and chambers of commerce by collating feedback from these associations to formulate effective policy advocacy and strategy, supply chain programmes, plans to expand and grow the E&E industry, as well as business-matching services.

## Industry Associations

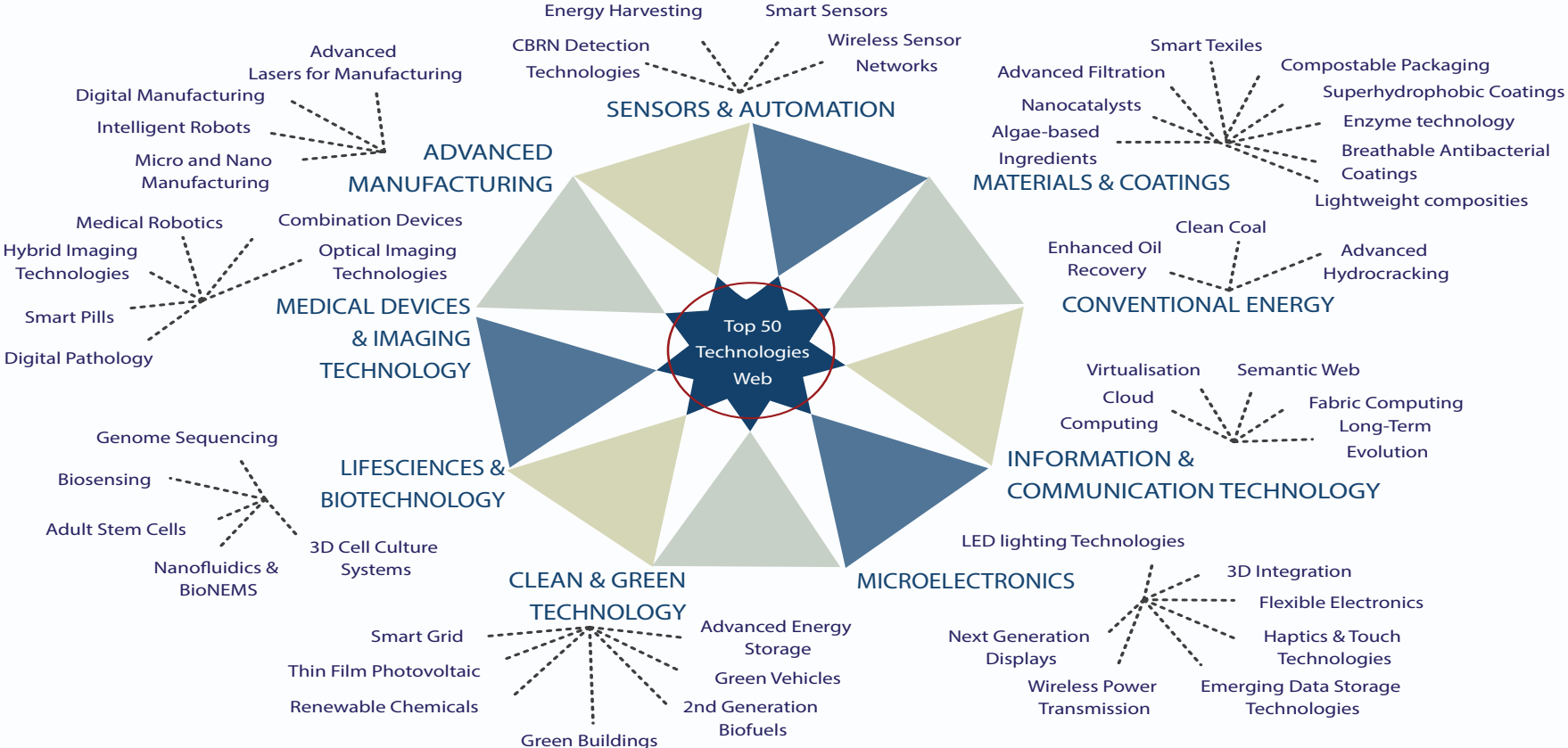
Semiconductor Foundry Association Malaysia (SFAN)	The Electrical and Electronics Association of Malaysia (TEEAM)	Malaysian Integrated Chip Designer Association (MICDA)
Malaysian Alternative & Renewable Industry (MARI)	Malaysian Photovoltaic Manufacturers Association (MPMA)	Malaysian Photovoltaic Industry Association (MPIA)
Malaysia Cable Manufacturers Association (MCMA)	Malaysia Bumiputera Solar Manufacturer Association (BUSFA)	Malaysian Air- Conditioning & Refrigeration Association (MACRA)
Malaysian Semiconductor Industry Association (MSIA)	Malaysian Integrated Chip Designers	

## Chambers of Commerce

The Japanese Chamber of Trade and Industry Malaysia (JACTIM)
Malaysian-German Chamber of Commerce and Industry (MGCC)
Malaysian American Electronics Industry Association (MAEI) (under the American Malaysian Chamber of Commerce (AMCHAM))

# DEVELOPMENTS IMPACTING GLOBAL INDUSTRY

The technology convergence of nanotech, biotech, and information sciences drives the creation of new products, particularly in the advanced manufacturing of medical devices and imaging technology; ICT; and clean and green technology. These industries and others have benefited from advances in the top 50 technologies, including digital and smart manufacturing, cloud computing, advanced energy storage, smart textiles, and flexible electronics.



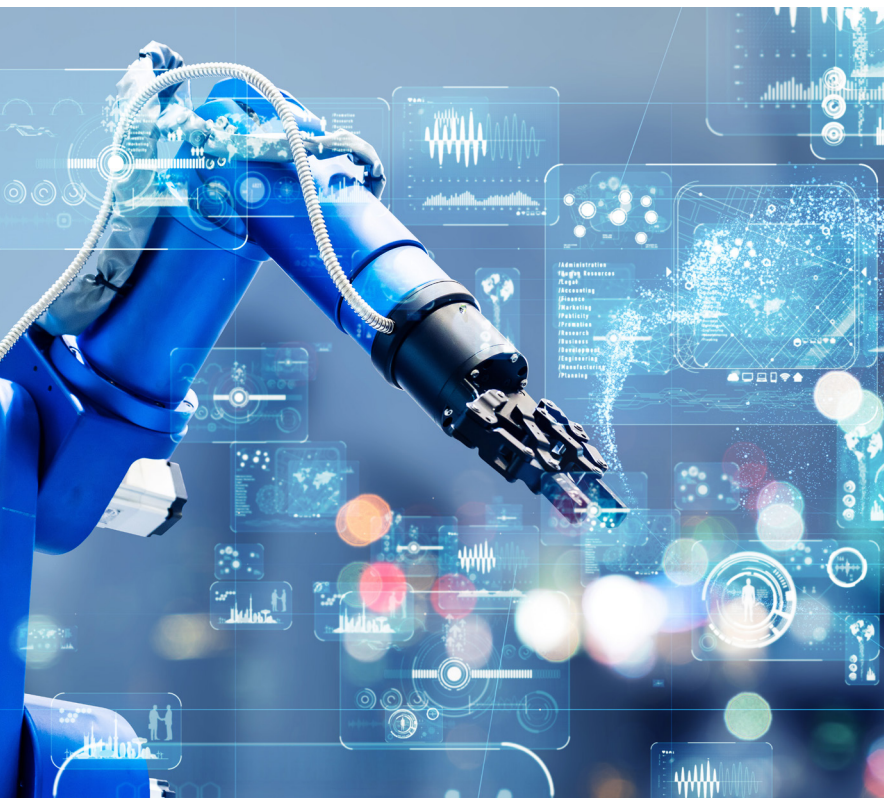
Source: Frost & Sullivan, Techvision Report

# SUSTAINABLE E&E TALENT POOL

The rapid changes in technology megatrends are redrawing the skills map for industries globally. The Malaysian Government has prioritised creating a sustainable talent pool to match the industry's growing needs by emphasising science, technology, engineering, and mathematics (STEM) fields among students at all levels. This is a long-term strategy to inculcate interest in STEM subjects that will help the E&E industry, by producing a stable pool of STEM university graduates who will be able to support the growth of areas such as IC design.

# EMBRACING THE FOURTH INDUSTRIAL REVOLUTION (INDUSTRY 4.0)

The Malaysian Government, in cooperation with industry stakeholders, has undertaken efforts to scale up technological transformation through the adoption of technologies related to automation, smart manufacturing, and Industry 4.0. The aim is to have stakeholders commit to higher-value-added activities and integrate key Industry 4.0 technologies into their manufacturing and supply chain operations.



## Industry4WRD: The Framework

### The visions

Strategic partner for smart manufacturing & related services in Asia Pacific | Primary destination for high-tech industry | Total solutions provider for advanced technology

### The national goals

Labour productivity growth | Manufacturing contribution to economy | Innovation capacity | High-skilled jobs

### The shift factors

People | Process | Technology

### The strategic enablers

Funding | Infrastructure | Regulations | Skills & talent | Technology

# VIBRANT LOCAL ECOSYSTEM AND SUPPLY CHAIN



Increasing investments into the E&E industry necessitates a strategy aimed at nurturing and growing Malaysian champions (LLCs and SMEs alike) and attracting a diverse range of MNC and EMS companies. MIDA's extensive promotional efforts in this space are designed to bring in companies that engage in higher value-added activities such as R&D specialists, companies with new and emerging technologies, and those engaged in the global supply chain. One such effort is the E&E Directory, which lists Malaysia's E&E companies across all subsectors and segments online.

Companies that can fill the gaps within the identified ecosystems (i.e. targeted E&E subsectors) are also being encouraged to invest in Malaysia.

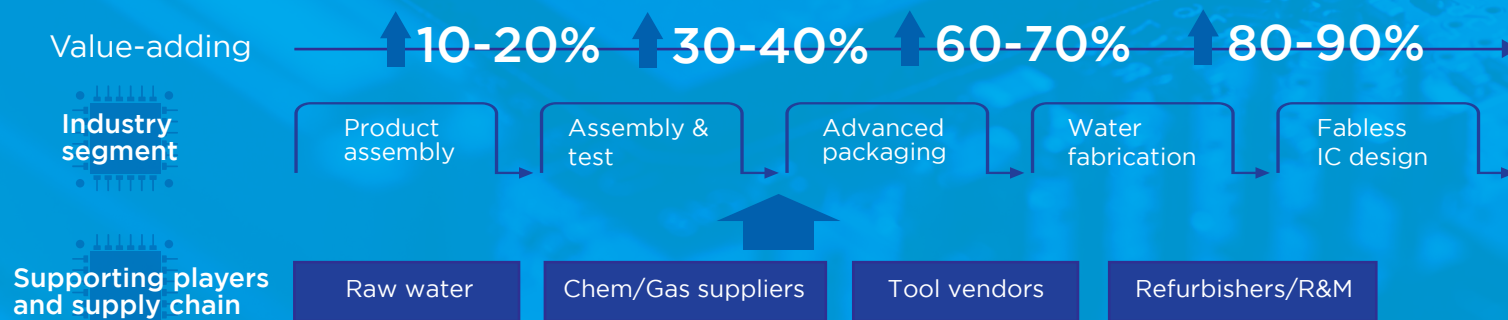
# OPPORTUNITIES IN E&E SUBSECTORS: SEMICONDUCTORS; LED; SOLAR

## SEMICONDUCTORS

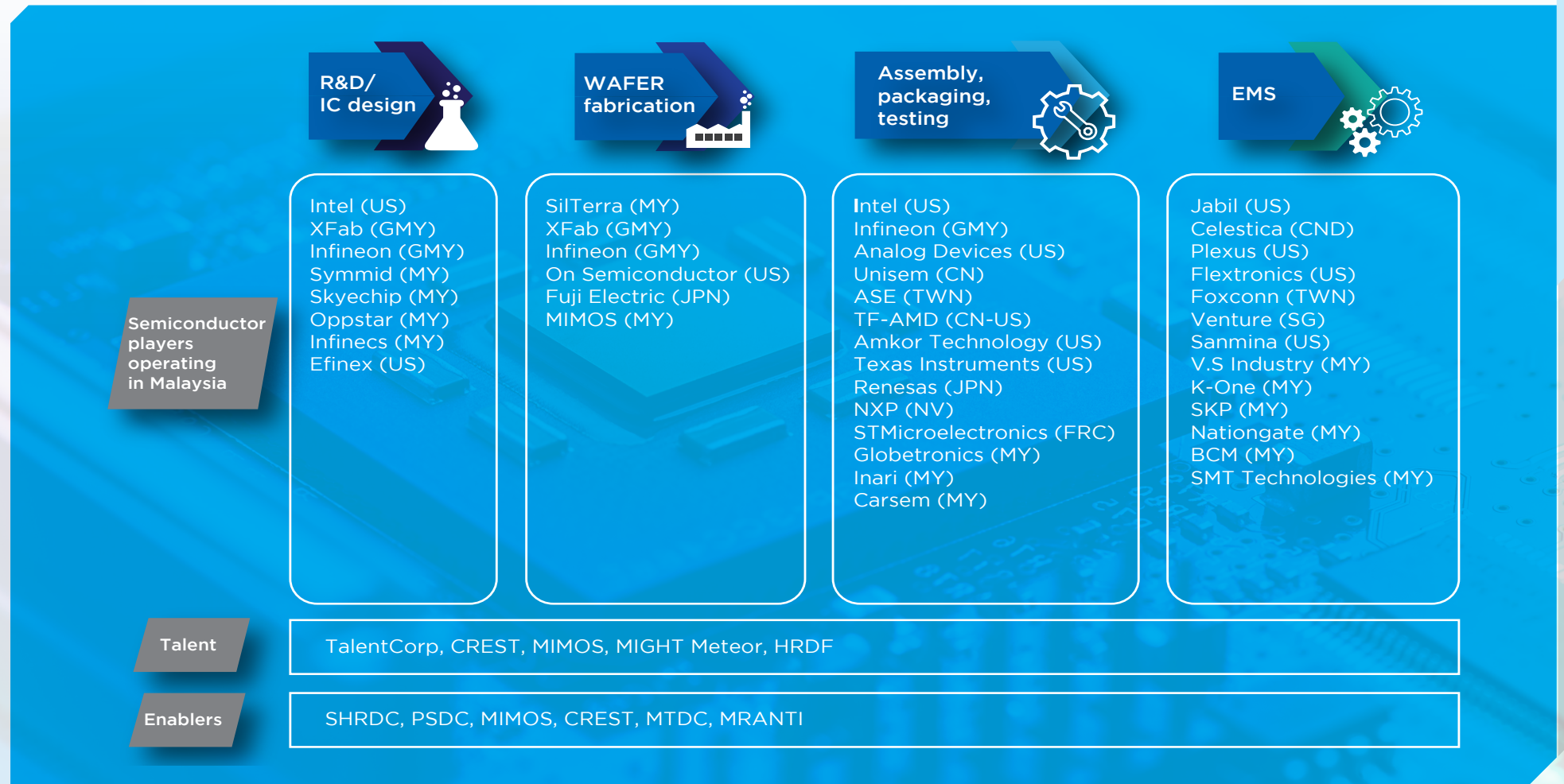
- 6 out of 12 of the largest semiconductor companies currently operate in Malaysia
- Key segments: automotive electronics, sensors, actuators, and communications chips
- Malaysia has strong back-end capabilities (i.e. IC packaging and testing)
- Semiconductors are a key enabling technology for many applications, including the Internet of Things (IoT), automotive, medical, industrial, transportation, aerospace, and energy applications
- Many semiconductor operations in Malaysia have upgraded their facilities into integrated manufacturing centres that fuse their manufacturing activities with R&D, product D&D, marketing, and distribution activities
- Some companies have even established their global hubs, global excellence centres, control towers, global delivery centres, global fulfilment centres, and shared services centres in Malaysia

## The Malaysian semiconductor ecosystem - filling-up the gaps of the value-chain and the supply-chain

In the last 40 years, Malaysia has developed an industrial base across the entire semiconductor value chain populated by local players and multinationals



# OVERVIEW: SEMICONDUCTOR ECOSYSTEM



# OVERVIEW: LED

## LED

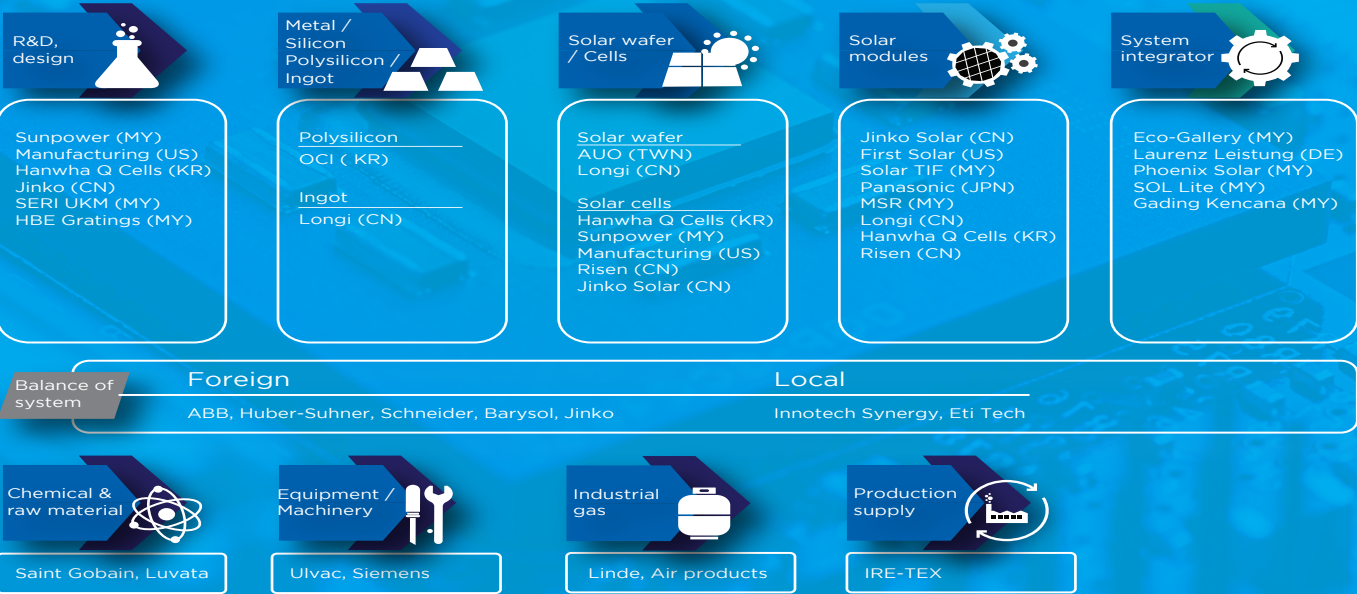
- The global market for solid-state lighting is estimated to grow from USD17.165 billion in 2022 to USD24.52 billion by 2023 according to Research Reports World, with a compound annual growth rate (CAGR) of 6.12% during the period until 2028
- Three (3) out of the nine (9) largest LED companies have operations in Malaysia
- Malaysia is strong in automotive lighting through the presence of Lumileds and OSRAM
- Growth areas: industrial lighting, automotive lighting, commercial lighting and architectural lighting
- Opportunities exist in front-end activities such as LED wafer fabrication; and materials and substrate and epitaxy manufacturing



# OVERVIEW: SOLAR

## SOLAR

- Seven (7) of the 11 largest solar Photovoltaics (PV) companies have operations in Malaysia
- Malaysia has a complete solar energy industry value chain, starting from manufacturing of materials and PV modules right up to system integration
- Malaysia is the 3rd largest global manufacturer of PV modules and products, and is the world's largest thin film manufacturing site
- Key growth factors: energy security, fossil fuel savings, energy diversity, and fuel price volatility
- Malaysia has successfully developed an integrated ecosystem of solar-based products, with presence of global players such as First Solar, Longi, SunPower, Hanwha Q Cells, Jinko, and Risen. More focus is planned to increase consumer adoption of renewable energy to create demand for solar service providers



# DECIDE TODAY TO INVEST IN MALAYSIA

Malaysia's market-oriented economy – combined with its young, educated workforce, and its government's commitment to maintaining a business-friendly environment – has been Malaysia's formula for success in attracting investments into the country's electronics sector.

## Strategically located with well-developed infrastructure

Malaysia's strategic location means it is able to offer a cost-competitive platform for investors intending to set up offshore operations for the manufacturing of advanced E&E products and services.

Malaysia's central location in the heart of ASEAN also makes it a cost-efficient hub, with excellent land connectivity and a plethora of airports and seaports that offer unparalleled access to Southeast Asia's regional market of over 600 million people.

## Providing access to global markets

Malaysia has signed several bilateral free trade agreements (FTAs) that span the globe, providing manufacturers preferential access to these export markets. The seven bilateral FTAs include Turkey, Japan, Australia, Chile, India, New Zealand, and Pakistan. Meanwhile, as part of the Association of Southeast Asian Nations (ASEAN), Malaysia is also signatory to seven regional FTAs; namely, ASEAN-China, AFTA, ASEAN-Hong Kong, ASEAN-Australia-New Zealand, ASEAN-India, ASEAN-Japan, and ASEAN-Korea.

Malaysia is also a signatory of the Regional Comprehensive Economic Partnership (RCEP), which is an FTA covering the entirety of ASEAN, as well as Australia, Japan, the PRC, the Republic of Korea, and New Zealand.

## Prioritising business-friendly policies

Malaysia has signed Investment Guarantee Agreements (IGAs) with more than 60 countries. These IGAs provide foreign investors with favourable legal rights and protections in order to encourage greater levels of FDI.

## Fostering liberalised equity ownership

Malaysia allows all foreign investors to own up to 100% equity in any corporation established in the manufacturing sector (including the E&E industry).

## Fostering research facilities/incubators and standards bodies

Malaysia is home to several world-class applied research and certification organisations.

Companies that are keen to explore applied research opportunities to boost corporate productivity can partner with the Malaysian Institute of Microelectronic Systems (MIMOS) in these key areas:

- |                           |                       |
|---------------------------|-----------------------|
| » Information security    | » User experience     |
| » Photonics               | » Advanced computing  |
| » Intelligent informatics | » Nanoelectronics     |
| » Artificial intelligence | » Wireless innovation |
| » Microelectronics        |                       |

Launched in 2012, the Collaborative Research in Engineering and Science and Technology Centre (CREST) was formed to grow Malaysia's E&E research, development, and commercialisation ecosystem through market-driven collaborative R&D and talent

development. CREST collaborates with companies and academia in the following technology clusters:-

- ▶ LED/Optoelectronics
- ▶ IoT & embedded systems
- ▶ IC Design, test, & validation
- ▶ Advanced material & packaging
- ▶ Industry 4.0
- ▶ Drones & autonomous vehicles

## Malaysia guarantees intellectual property protection

When it comes to IP rights, Malaysian's laws conform to international standards. It is a member of the World Intellectual Property Organisation. Malaysia is also a signatory of the Paris Convention and Berne Convention – which govern IP rights – as well as a signatory of the Agreement on Trade-Related Aspects of IP Rights under the World Trade Organisation.

## Malaysia allows for maximum repatriation of income

Malaysia puts no restrictions on the repatriation of capital, interest, dividends, or profits.

## Facilitating employment of expatriates

In the event that local personnel do not possess the relevant skillsets or technical knowhow required in any particular capacity, foreign investors may appoint expatriates in two categories:

1. **Key Post** (posts that are permanently filled by foreigners)
2. **Term Post** (posts that are filled by foreigners for a period of 1-5 years)

# HOW MIDA HELPS SMOOTH OUT YOUR INVESTMENT JOURNEY IN MALAYSIA

## Obtaining applicable financial/monetary/tax incentives

A corporate rate of 24% applies to all companies in Malaysia regardless of ownership. A wide range of tax incentives is made available to these companies and is constantly reviewed by the Government to ensure that these incentives maintain their competitive edge in the global marketplace.

MIDA can help you understand your eligibility for various financial, monetary, and tax incentives, as well as facilitate your applications for them.

## Expediting approvals of applications and permits

- ✓ Manufacturing licences
- ✓ Status approvals (Representative/Regional office/R&D)
- ✓ Matching grants
- ✓ Expatriate posts
- ✓ Customs duty exemptions
- ✓ Implementation via MIDA state offices/ State agencies/Local authorities



### Pioneer status

Income tax exemption ranging from 70% to 100% for a period of 5 or 10 years



### Investment tax allowance

60% or 100% on qualifying capital expenditure for 5 years



### Reinvestment allowance

60% on qualifying expenditure for 15 consecutive years



### Import duty exemption

For raw materials/components and machinery and equipment

## Facilitation of various processes:

- ✓ Attracting the right talent
- ✓ Post-investment issues
- ✓ Engineering support services (e.g. fabrication, mould and die, machining, and surface engineering)
- ✓ Sourcing from local manufacturers for cost management and to shorten supply chains
- ✓ Technology collaboration through partnerships with SIRIM, CREST, MIMOS, and other research centres
- ✓ Bringing companies and funding sources (e.g Banks/fund managers) together via the investment coordination platform team

# NEXT STEPS FOR YOUR INVESTMENT

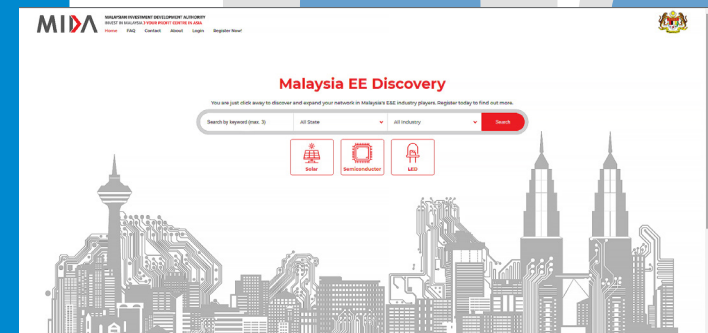
Learn more about Malaysia's E&E industry players

Together with our partners MATRADE, SME Corp, and MPC, MIDA has been spearheading initiatives to connect local companies and SMEs to MNCs and LLCs through multiple platforms. The E&E Directory is our latest digital platform and is the sole platform that concentrates on the Malaysian E&E landscape.

Created in partnership with Malaysian E&E industry players, the E&E directory is a comprehensive web database that showcases participating companies' various capabilities, products and service offerings. The directory aims to promote and connect all E&E companies in Malaysia to enhance their market penetration domestically and globally, as well as facilitate the exploration of new business opportunities within the existing ecosystem.

This directory serves as an official reference which MIDA uses to recommend reputable Malaysian companies to MNCs and foreign investors looking to build strong domestic supply chains. MIDA and other related agencies also refer to it for use in promotional tools, as a reference for outsourcing or joint venture inquires, as well as for market penetration initiatives.

The directory features an interactive Malaysian map that pinpoints the precise locations of the companies in the database. Other features include being able to identify companies of interest according to the target ecosystem or target industry cluster within the E&E domain.



<https://ee.mida.gov.my/>

# SUCCESS STORIES



# SUCCESS STORIES

## SYMMID CORPORATION SDN. BHD.



An ISO 9001-certified and Malaysia-based fabless semiconductor design company, Symmid Corporation Sdn. Bhd. is a preferred partner for many leading semiconductor companies in Europe, the USA, and Asia. The company provides end-to-end IC design services to fabless design houses, electronics and semiconductor system companies, equipment manufacturers, and service providers.

With MIDA's financing facilitation, the company has been able to purchase technological assets, build more facilities, conduct R&D, and provide technical training for its IC design engineers.

## INTEL MICROELECTRONICS (M) SDN. BHD.



With MIDA's support, Intel Microelectronics (M) Sdn. Bhd. (Intel) carried out various R&D projects, which has in turn produced highly skilled engineers and talent for the semiconductor sector. In addition to that, Intel's presence in Malaysia has also symbiotically benefited the local SMEs by

enhancing their capabilities in the country. Various vendor development programmes have integrated these local SMEs into Intel's global supply chain.



## **KEDAH & PERLIS**

### **Director**

#### **Malaysian Investment Development Authority**

Level 4, East Wing, No. 88  
Menara Bina Darulaman Berhad  
Lebuhraya Darulaman, 05100 Alor Setar  
Kedah Darul Aman, Malaysia  
Tel: (604) 731 3978 | Fax: (604) 731 2439  
E-mail: kedah@mida.gov.my

## **PULAU PINANG**

### **Director**

#### **Malaysian Investment Development Authority**

Unit 14.01, 14th Floor, Menara Boustead Penang  
39, Jalan Sultan Ahmad Shah  
10050 Pulau Pinang, Malaysia  
Tel: (604) 228 0575 | Fax: (604) 228 0327  
E-mail: penang@mida.gov.my

## **PERAK**

### **Director**

#### **Malaysian Investment Development Authority**

Level 4, Perak Techno Trade Centre (PTTC)  
Bandar Meru Raya, Off Jalan Jelapang  
P.O.Box 210, 30720 Ipoh, Perak Darul Ridzuan, Malaysia  
Tel: (605) 5269 962 / 961 | Fax: (605) 5279 960  
E-mail: perak@mida.gov.my

## **MELAKA**

### **Director**

#### **Malaysian Investment Development Authority**

Level 3, Menara MITC  
Kompleks MITC, Jalan Konvensyen  
75450 Ayer Keroh, Melaka, Malaysia  
Tel: (606) 232 2877 | Fax: (606) 232 2875  
E-mail: melaka@mida.gov.my

## **NEGERI SEMBILAN**

### **Director**

#### **Malaysian Investment Development Authority**

Suite 13.01 & 13.02, 13th Floor  
Menara Zurich, 70200 Seremban  
Negeri Sembilan, Malaysia  
Tel: (606) 762 7921 | Fax: (606) 762 7879  
E-mail: nsembilan@mida.gov.my

## **JOHOR**

### **Director**

#### **Malaysian Investment Development Authority**

No. 5, 13th Floor, Menara Tabung Haji  
Jalan Ayer Molek, 80000 Johor Bahru  
Johor Darul Ta'zim, Malaysia  
Tel: (607) 224 5500 / 5057  
Fax: (607) 224 2360  
E-mail: johor@mida.gov.my

## **PAHANG**

### **Director**

#### **Malaysian Investment Development Authority**

Tingkat 10 KLM, Menara Zenith  
P.O.Box 178, Jalan Putra Square 6, Putra Square  
25200 Kuantan, Pahang Darul Makmur, Malaysia  
Tel: (609) 513 7334 | Fax: (609) 513 7333  
E-mail: pahang@mida.gov.my

## **KELANTAN**

### **Director**

#### **Malaysian Investment Development Authority**

Level 5-C, Menara Pejabat Kelantan Trade Centre  
Jalan Bayam, 15000 Kota Bharu  
Kelantan Darul Naim, Malaysia  
Tel: (609) 748 3151 | Fax: (609) 744 7294  
E-mail: kelantan@mida.gov.my

## **SELANGOR**

### **Director**

#### **Malaysian Investment Development Authority**

Level 22, Wisma MBSA, Persiaran Perbandaran  
40000 Shah Alam, Selangor, Malaysia  
Tel: (603) 5518 4260 | Fax: (603) 5513 5392  
E-mail: selangor@mida.gov.my

## **TERENGGANU**

### **Director**

#### **Malaysian Investment Development Authority**

Level 5, Menara Yayasan Islam Terengganu  
Jalan Sultan Omar, 20300 Kuala Terengganu  
Terengganu, Malaysia  
Tel: (609) 622 7200 | Fax: (609) 623 2260  
E-mail: terengganu@mida.gov.my

## **SABAH**

### **Director**

#### **Malaysian Investment Development Authority**

Lot D9.4 & D9.5, Tingkat 9, Block D  
Bangunan KWSP Karamunsing  
P.O. Box 11915, 88100 Kota Kinabalu, Sabah, Malaysia  
Tel: (6088) 211 411 / 230 411 | Fax: (6088) 211 412  
E-mail: sabah@mida.gov.my

## **SARAWAK**

### **Director**

#### **Malaysian Investment Development Authority**

4th Floor, Bangunan Bank Negara Malaysia Kuching  
Jalan Satok, P.O. Box 716  
93714 Kuching, Sarawak, Malaysia  
Tel: (6082) 254 251 / 237 484 | Fax: (6082) 252 375  
E-mail: sarawak@mida.gov.my

**ASIA PACIFIC**

**SINGAPORE**

**Consul (Investment) / Director**  
**Malaysian Investment Development Authority**  
 No. 7, Temasek Boulevard, 26 - 01  
 Suntec Tower One, Singapore 038987  
 Tel: (65) 6835 9326 / 9580 / 7069  
 Fax: (65) 6835 7926  
 E-mail: singapore@mida.gov.my

**JAPAN  
TOKYO**

**Director**  
**Malaysian Investment Development Authority**  
 32F, Shiroyama Trust Tower, 4-3-1, Toranomon  
 Minato-ku, Tokyo 105-6032, Japan  
 Tel: (813) 5777 8808 | Fax: (813) 5777 8809  
 E-mail: tokyo@mida.gov.my

**OSAKA**

**Director**  
**Malaysian Investment Development Authority**  
 Mainichi Intecio 18F, 3-4-5 Umeda  
 Kita-ku, Osaka 530-0001, Japan  
 Tel: (816) 6451 6661 | Fax: (816) 6451 6626  
 E-mail: osaka@mida.gov.my

**REPUBLIC OF KOREA**

**Counsellor (Investment) / Director**  
**Embassy of Malaysia**  
**(Malaysian Trade and Investment Centre)**  
**Malaysian Investment Development Authority**  
 17th Floor, Standard Chartered Bank Korea  
 Limited Building, 47, Jongro, Jongno-Gu  
 Seoul 03160, Republic of Korea  
 Tel: (822) 733 6130 / 6131 | Fax: (822) 733 6132  
 E-mail: seoul@mida.gov.my

**AUSTRALIA**

**Consul (Investment) / Director**  
**Consulate of Malaysia (Investment Section)**  
**Malaysian Investment Development Authority**  
 Level 6, 16 Spring Street, Sydney N.S.W. 2000, Australia  
 Tel: (6102) 9251 1933  
 E-mail: sydney@mida.gov.my

**TAIWAN**

**Director (Investment)**  
**Malaysian Friendship & Trade Centre**  
**Malaysian Investment Development Authority**  
 12F, Suite A, Hung Kuo Building  
 No. 167, Tun Hua North Road  
 Song Shan District 10549, Taipei, Taiwan  
 Tel: 886 (2) 2718 6094 | Fax: (8862) 2514 7581  
 E-mail: taipiei@mida.gov.my

**INDIA**

**Consul (Investment) / Director**  
**Consulate General of Malaysia (Investment Section)**  
**Malaysian Investment Development Authority**  
 81 & 87, 8th Floor, 3rd North Avenue Maker Maxity  
 Bandra Kurla Complex, Bandra (E), Mumbai 400051, India  
 Tel: (9122) 2659 1155/ 1156 | Fax: (9122) 2659 1154  
 E-mail: mumbai@mida.gov.my

**UNITED ARAB EMIRATES**

**Consul (Investment) / Director**  
**Consulate General of Malaysia (Investment Section)**  
**Malaysian Investment Development Authority**  
 Unit 2205, 22nd Floor, Tower A  
 Business Central Tower, Dubai Media City  
 (P.O Box 502876) Dubai, United Arab Emirates  
 Tel: (9714) 4343 696 / 4343 697 | Fax: (9714) 4343 698  
 E-mail: dubai@mida.gov.my

**PEOPLE'S REPUBLIC OF CHINA  
SHANGHAI**

**Consulate General of Malaysia**  
**(Investment Section)**  
**Malaysian Investment Development Authority**  
 Units 807-809, Level 8, Tower 1  
 Shanghai Kerry Centre  
 No. 1515, Nanjing Road (West)  
 Shanghai, 200040  
 People's Republic of China  
 Tel: (8621) 6289 4547  
 Fax: (8621) 6279 4009  
 E-mail: shanghai@mida.gov.my

**GUANGZHOU**

**Director**  
**Malaysian Investment Development Authority**  
 Unit 1804B-05, CITIC Plaza Office Tower  
 233 Tianhe Bei Road Guangzhou  
 510610, People's Republic Of China  
 Tel: (8620) 8752 0739  
 Fax: (8620) 8752 0753  
 E-mail: guangzhou@mida.gov.my

**BEIJING**

**Counsellor (Investment) / Director**  
**Embassy of Malaysia**  
**(Investment Section)**  
**Malaysian Investment Development Authority**  
 Unit C, 12th Floor, Tower A, Gateway Plaza  
 No.18 Xiaguangli, East Third Ring North Road  
 Chaoyang District, 100600 Beijing  
 People's Republic Of China  
 Tel: (8610) 8440 0071 / 0072  
 Fax: (8610) 8440 0076  
 E-mail: beijing@mida.gov.my

EUROPE

UNITED STATES OF AMERICA

**FRANCE**

**Director**

**Malaysian Investment Development Authority**

42 Avenue Kleber, 75116 Paris, France

Tel: (331) 4727 3689 / 6696

E-mail: paris@mida.gov.my

**GERMANY  
FRANKFURT**

**Consul (Investment) / Director**

**Consulate General of Malaysia (Investment Section)**

**Malaysian Investment Development Authority**

Level 9, HAT 64, Bleichstrasse 64-66

60313 Frankfurt Am Main, Germany

Tel: (4969) 8700 679-0

Email: frankfurt@mida.gov.my

**MUNICH**

**Director**

**Malaysian Investment Development Authority**

Level 6, Bürkleinhaus, Bürkleinstrasse 10

80538 Munich, Germany

Tel: (4989) 2030 0430 | Fax: (4989) 2030 0431-5

E-mail: munich@mida.gov.my

**ITALY**

**Consul (Investment) / Director**

**Consulate of Malaysia (Investment Section)**

**Malaysian Investment Development Authority**

2nd Floor, Via Alberico Albricci, 9

20122 Milan (MI), Italy

Tel: (3902) 8909 3824 | Fax: (3902) 8909 5418

E-mail: milan@mida.gov.my

**SWEDEN**

**Malaysian Investment Development Authority**

**c/o Embassy of Malaysia**

Karlavaegen 37, P.O. Box 26053

S-10041 Stockholm, Sweden

Tel: (468) 440 8400 / (468) 440 8416

Fax: (468) 791 8761

E-mail: stockholm@mida.gov.my

**UNITED KINGDOM**

**Counsellor for Investment / Director**

**High Commission of Malaysia**

**Malaysian Investment Development Authority**

**c/o Embassy of Malaysia**

17, Curzon Street, London W1J 5HR

United Kingdom

Tel: (4420) 7493 0616

Fax: (4420) 7493 8804

E-mail: london@mida.gov.my

**TÜRKİYE**

**Director**

**Malaysian Investment Development Authority**

APA-GIZ Plaza, Büyükdere Caddesi

No: 191 Level: 12, No: 24

34330 Leventİstanbul / TÜRKİYE

Tel: +90212 905 11 00

E-mail: istanbul@mida.gov.my

**SAN JOSE**

**Director**

**Malaysian Investment Development Authority**

226 Airport Parkway

Suite 480, San Jose, California 95110

United States of America

Tel: (1408) 392 0617

E-mail: sanjose@mida.gov.my

**CHICAGO**

**Director**

**Malaysian Investment Development Authority**

John Hancock Center, Suite 1810

875, North Michigan Avenue, Chicago, IL 60611

United States of America

Tel: (1312) 787 4532

Fax: (1312) 787 4769

E-mail: chicago@mida.gov.my

**NEW YORK**

**Consul (Investment) / Director**

**Consulate General of Malaysia**

**(Investment Section)**

**Malaysian Investment Development Authority**

313 East, 43rd Street, New York, NY 10017

United States of America

Tel: (1212) 687 2491

Fax: (1212) 490 8450

E-mail: newyork@mida.gov.my



MALAYSIAN INVESTMENT DEVELOPMENT AUTHORITY

HEADQUARTERS

**MALAYSIAN INVESTMENT DEVELOPMENT AUTHORITY**

MIDA Sentral, No. 5, Jalan Stesen Sentral 5, Kuala Lumpur Sentral, 50470 Kuala Lumpur, MALAYSIA

Tel: (603) 2267 3633 | Fax: (603) 2274 7970 | E-mail: [investment@mida.gov.my](mailto:investment@mida.gov.my)

Website: [www.mida.gov.my](http://www.mida.gov.my)

For more information, please contact:

**ELECTRICAL & ELECTRONICS DIVISION**

**Malaysian Investment Development Authority**

Level 28, MIDA Sentral, No. 5, Jalan Stesen Sentral 5, 50470 Kuala Lumpur, MALAYSIA

Tel : (603) 2263 2401 | Fax : (603) 2260 1641 | E-mail: [investment@mida.gov.my](mailto:investment@mida.gov.my)

Website: [www.mida.gov.my](http://www.mida.gov.my)



**DISCLAIMER**

None of the contents of this exercise may be used, reproduced, altered or made publicly available in any form by any means, including electronic, photocopying, recording, or otherwise, without prior written permission of the Malaysian Investment Development Authority (MIDA).