

Invest in Penang 2015



Capitalizing on Penang's value proposition as a destination of choice for investors

By Dato' Lee Kah Choon

"Business & investment opportunities in Penang, Malaysia"

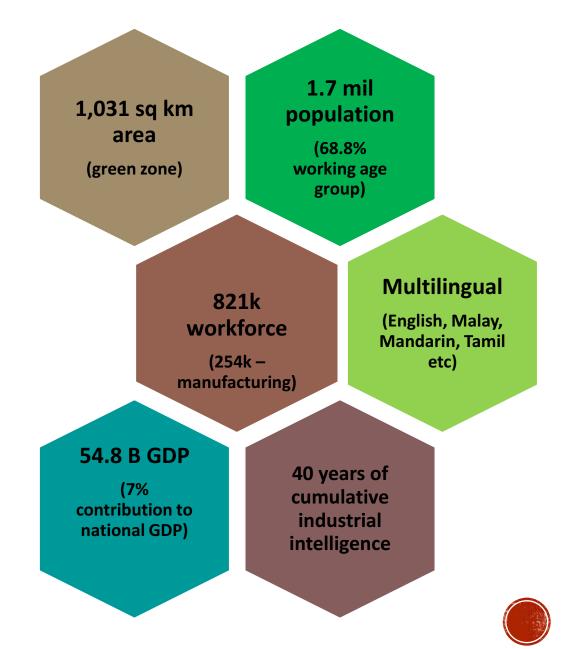


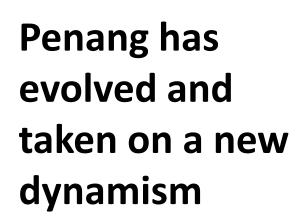
Penang in the news: An industrial base state, heritage city and campus for technology

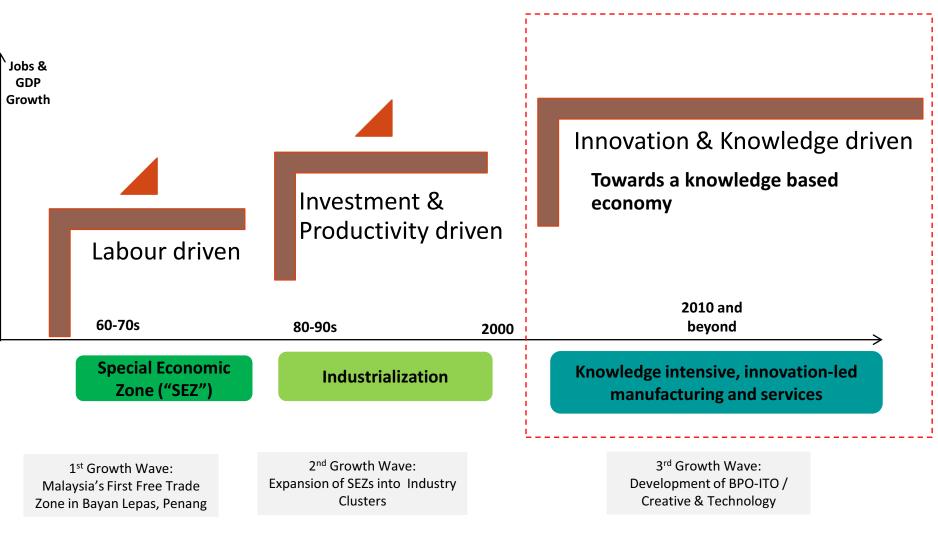


- Top 10 dynamic industrial cluster locations in the world to have demonstrated a successful manufacturing experience among developing economies (UNIDO Industrial Development Report 2009)
- Top 31 Business Process Outsourcing (BPO) locations of the future (KPMG's "Exploring Global Frontiers" Report 2009)
- Georgetown UNESCO World Heritage Site in 2008
- The 16th most livable cities in Asia (ECA Intl. 2014)
- Top in Green initiatives in Malaysia
- C.A.T. Governance praised for anti-corruption efforts (Transparency International, AG Report 2010)
- 4th most charismatic city globally 2016 (Lonely Planet 2015)
- > Top 10 best city to visit in the world (The Guardian 2014)
- Top culinary spot (Lonely Planet 2014)
- Top 8 islands in the world 'You must see before you die' (Yahoo! Travel, Feb 2011)
- Top 15 best street art in the world (The Guardian 2013)



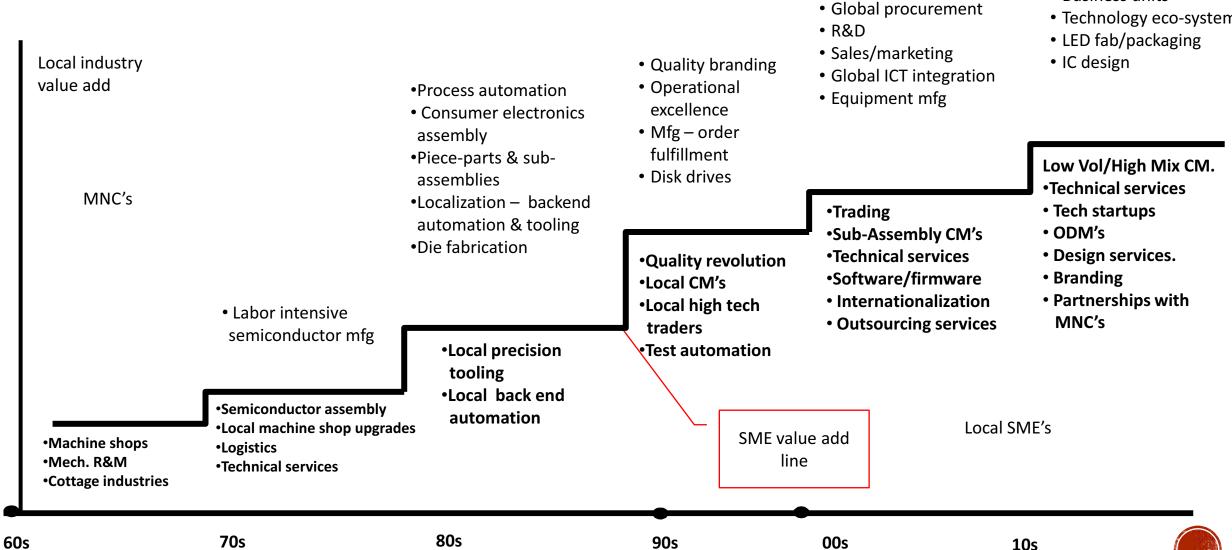






- Two growth transformations to become a successful industrialized economy
- Penang's economy targeted to move up the value-chain by driving the third growth wave of knowledge intensive and innovation-led growth
- Promoting economic diversification e.g. advanced technology, BPO-ITO, IoT, creative multimedia, engineering design, big data analytics etc

Evolution of industry in Penang



Biotech mfg.

• Global supply chains

Non-core outsourcing

Medical devices

- Solar panels
- Business units
- Technology eco-systems

Key sectors to boost Penang economy





Industry

Services















- Electronics ManufacturingServices (EMS)
- Medical Devices
- Light Emitting Diodes (LED)
- Aerospace / Avionics
- Renewable Energy (RE)
- □ Halal & Food Industry











- Shared Services & Outsourcing
 (SSO)
- IC Design & Development
- ICT / Software development & Creative Multimedia
- Operational Headquarters,
 International Procurement Centre and Regional Distribution Centers
- **Logistics & Transportation**
- Healthcare & Wellness Services
- International Education
- Meeting, Incentives, Conferences, and Exhibitions (MICE)
- High value Tourism / Hospitality



PENANG'S RECENT INVESTMENT UPDATES

B BRAUN	B.Braun's expansion in Penang Re-invested RM300 mil in 2009 and RM1.75B in 2013
ATOTECH	Atotech, a direct subsidiary of TOTAL purchased 2.5 ac of land in Penang Science Park to set-up a chemical blending facility and currently under construction
JABIL	Jabil expanded operations in Batu Kawan Industrial Park, to start construction in 2016 Focus on Enterprise, industrial medical and aerospace sectors ,creating 2,500 skilled jobs
hp	HP to invest more than RM1 billion for their worldwide consumer ink supply chain management, 550k sqft facility, started construction in May 2015, to be completed in 12 months
Seagate We turn or ideas	Seagate to re-invest RM1.05 billion in Penang for manufacturing of hard disk drive and storage solutions, started construction for their 1.3mil sq ft facility in March 2015
SanDisk	SanDisk set-up RM1.2 billion plant in Batu Kawan Industrial Park, completed 344k sqft, 4-storey facility in 10 months, to replicate 3 more same buildings at the same site
Better sound through research®	Bose's first overseas site for the past 17 years, 360k sq ft facility completed in 10 months. Began operations in June 2013 and employing 2,000 workers
HAEMONETICS* THE Blood Management Company	Haemonetics' new facility in Batu Kawan Industrial Park First establishment in Asia, created 700 new jobs. Collaboration with Sanmina-SCI on machineries manufacturing, distribution and after sales services
TOSHIBA Medical Systems	Toshiba Medical established Malaysia's first diagnostic imaging systems manufacturing base in Penang. Started operations in Dec 2014, employs 200 employees

B BRAUN PENANG

- B Braun supplies the global healthcare market with products for aesthesia, intensive medicine, cardiology, extra corporeal blood treatment and surgery, as well as services for hospitals, general practitioner and homecare sector.
- Penang subsidiary, B Braun Medical Industries Sdn Bhd (BMI) was established in 1972 and is one of the group's first manufacturing site in Asia Pacific
- BMI is the largest manufacturing site outside Europe and the regional Headquarters for Asia Pacific
- BMI recognized as the Global Center of Excellence for Intravenous Access (CoE IVA) products, R&D and production technology to develop and manufacture safety products and systems (i.e: IV Catheters (IVC), Scalp Vein Sets (SVS) and Hypodermic Needles.
- BMI employs more than 7,000 employees
- Why Penang?
 - Acquisition of know-how and capabilities from more than 40 years experience
 - Availability of talents specialized in medical field, quality and innovation
 - Cultural diversity, strength in language to serve Asia market
 - Engagement with local universities and institute of higher learning



BRAUN





OSRAM PENANG



OSRAM Manufacturing

- One of the world's leading manufacturers of optoelectronic semiconductors for the illumination, sensing and visualization sectors
- Extensive know-how in semiconductors, converter materials and packages under one roof
- Penang manufacturing site supporting worldwide LEDs for more than 20 years
- Penang has the world's most advanced LED chip factory
- Employs 6,000 workers as of April 2015

OSRAM's Global Service Center Penang

Started

- : 2015
- Employees : 56 employees today in APAC service centers
- Services offered : Full spectrum of operational and value added services
 - tential 200 employees by 2017, with the shility to expende
- Growth potential : ~260 employees by 2017; with the ability to expand
- Why Penang?
 - Malaysia is a low-cost country with good multi-language capabilities and wide access to a talented labor pool
 - GSS APAC constantly uses our 3-Pillars, utilizing our people to automate Processes, achieve synergies and lower the operating costs for our Partners!





BOSCH PENANG



- The Bosch Group operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology.
 - employs roughly 360,000 associates worldwide (as per April 1, 2015), and generated sales of 49 billion Euros in 2014
- In Malaysia, Bosch is active in the areas of Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology.
- The subsidiary in Penang was established in May 1984 and has three manufacturing arms in Penang providing car multimedia systems, power tools and automotive steering
- In 2014, Malaysia contributed sales of RM 552 million (EUR 127 million) and employed more than 2,500 associates.
- January 30, 2015 the Bosch Group completed its acquisition of ZF Friedrichshafen AG's 50-percent share in the joint venture ZF Lenksysteme GmbH (ZFLS). Bosch now owns all shares in the formerly 50:50 joint venture. It will be incorporated into the Bosch Group as a new division with the name Robert Bosch Automotive Steering GmbH.

Why Penang?

- Highly urbanized and industrialized Penang is one of the most developed and economically important states in the country, as well as a thriving tourist destination. Penang is also known as "The Pearl of the Orient".
- Penang enjoys a year-round tropical rainforest climate which is warm and sunny.





VAT PENANG

- VAT is the world's leading supplier of high precision vacuum valves made of stainless steel and aluminum for state-of-the-art applications in the semiconductor industry, for manufacturing flat screens and solar panels, as well as for coating optical systems and tools.
- VAT Malaysia is located in the Batu Kawan Industrial Park / Penang and manufactures high precision valves, purchasing standard parts from local suppliers and assembling and testing all components in a clean room environment.
- On 6 th of February 2012, VAT had their ground-breaking ceremony. The construction was completed within 10 months and operations commenced in April 2013. Currently fully operational with 95 headcount
- Why Penang?
 - Availability of qualified talents and English speaking workforce
 - Matured local supply chain with world class capabilities
 - Strong IP protection
 - Good investment incentives offered by Malaysian Government









Over 300 multinational companies have chosen Penang as their location of choice to do business



WORLD CLASS SUPPLY CHAIN

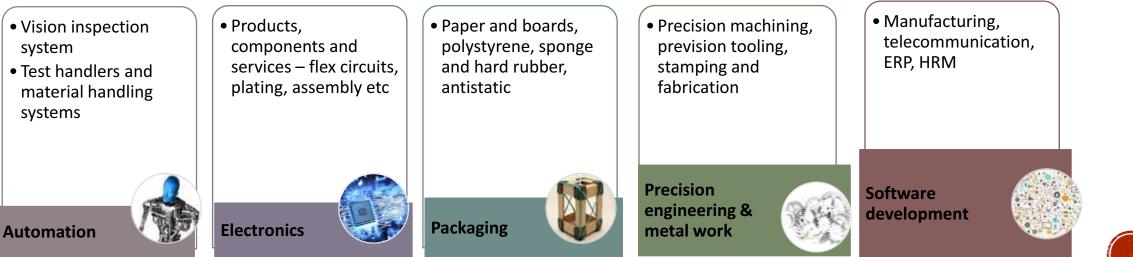




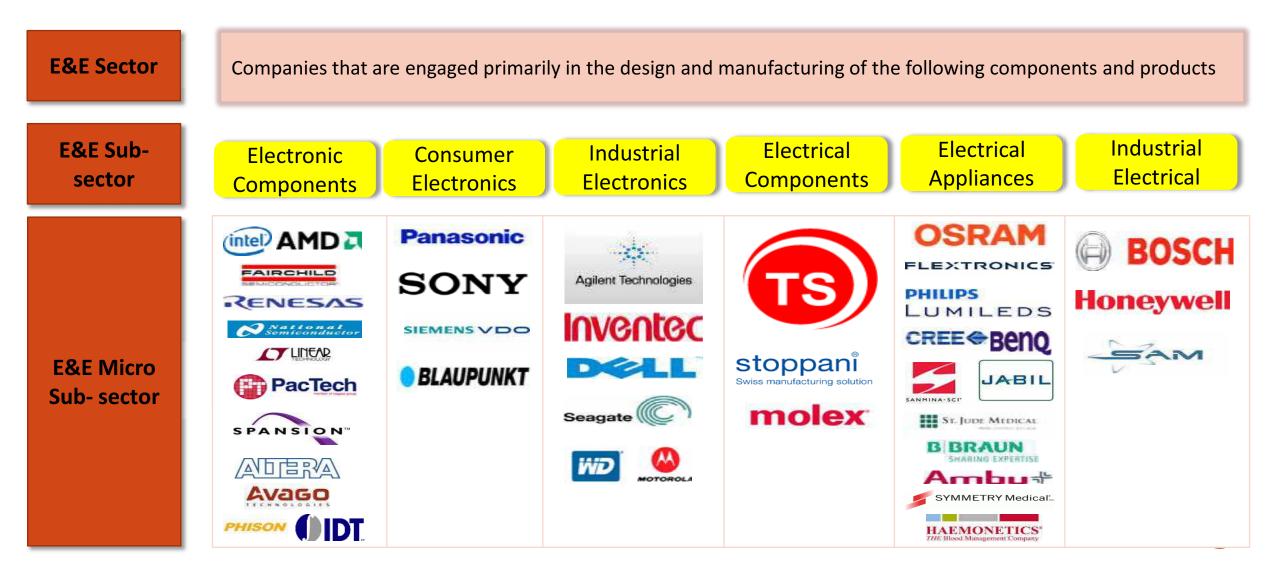
• World class capabilities, robust supply chain, proven track record and critical support services

•Provides shorter development cycles, steeper learning curves and reduced cost and time to market

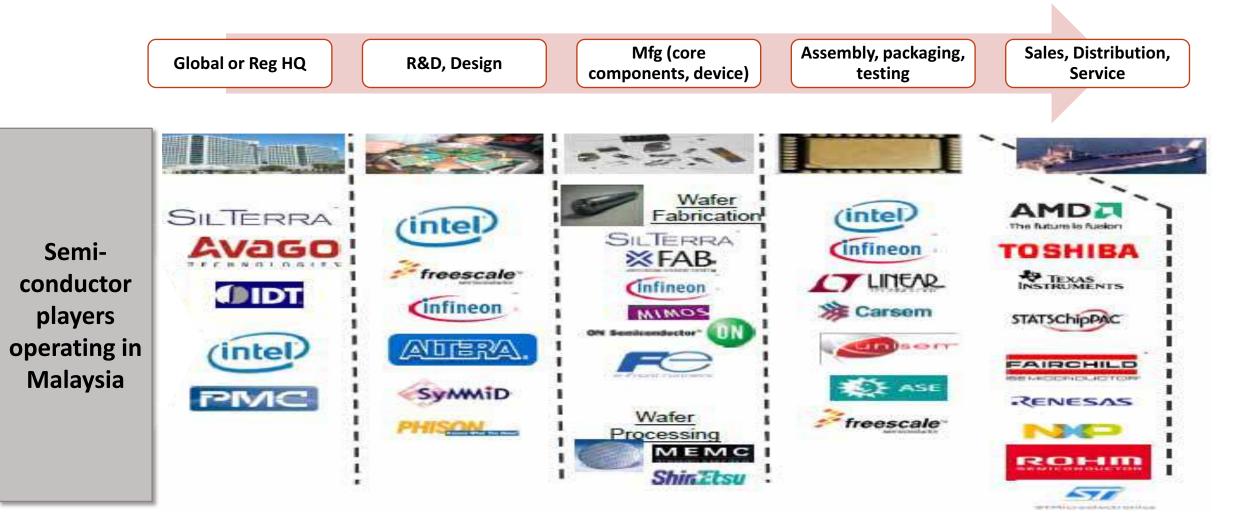
- Vibrant E&E ecosystem with over 3,000 well diversified and competent local suppliers
- Local and international EMS companies



PENANG E&E CLUSTERS



MALAYSIAN SEMICONDUCTOR ECOSYSTEM





Electronic Manufacturing Services (EMS) Industry in Penang

 Top 10 EMS providers / ODM in Penang (ranked by 2014 full year financial results)

Company	Ranking
FLEXTRONICS	2
JABIL	3
SANMINA	5
Celestica	6
Benchmark electronics	7
PLEXUS	9

- > 50 companies operating as CMS / EMS in Malaysia
- Other EMS providers in Penang





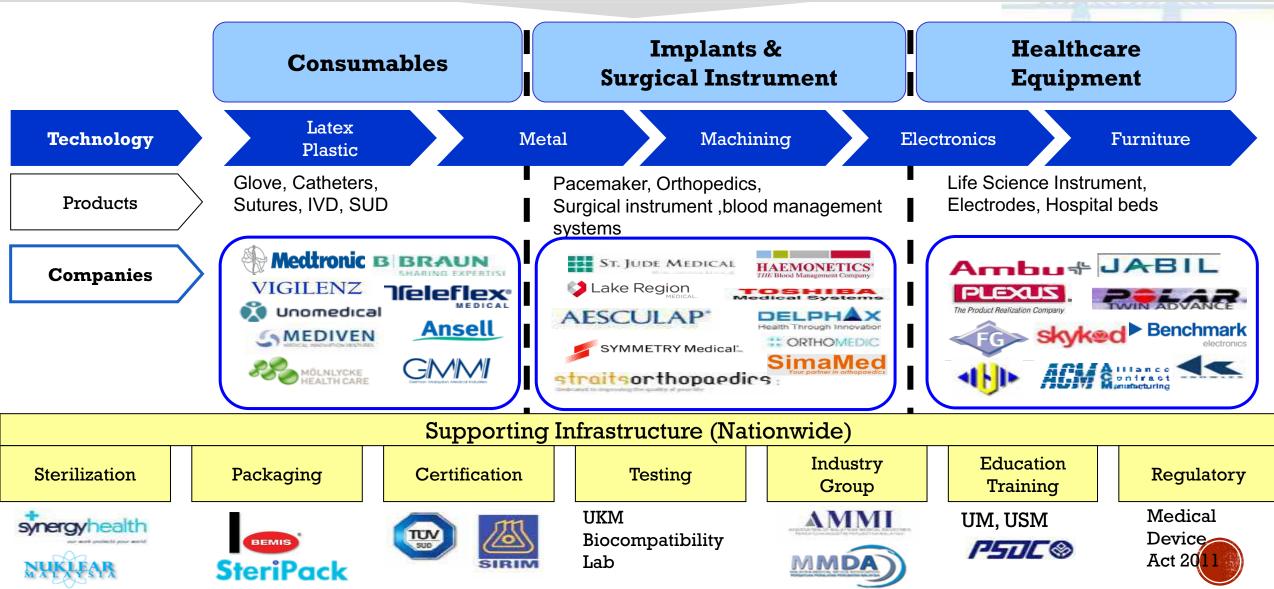




Source: www.ventureoutsource.com

Medical Devices Cluster in Penang & Northern Region

Materials: Rubber, Plastics, Steel, Electronics, etc.



Strong Medical Devices Ecosystem in Penang

Penang - Major medical devices cluster in Malaysia

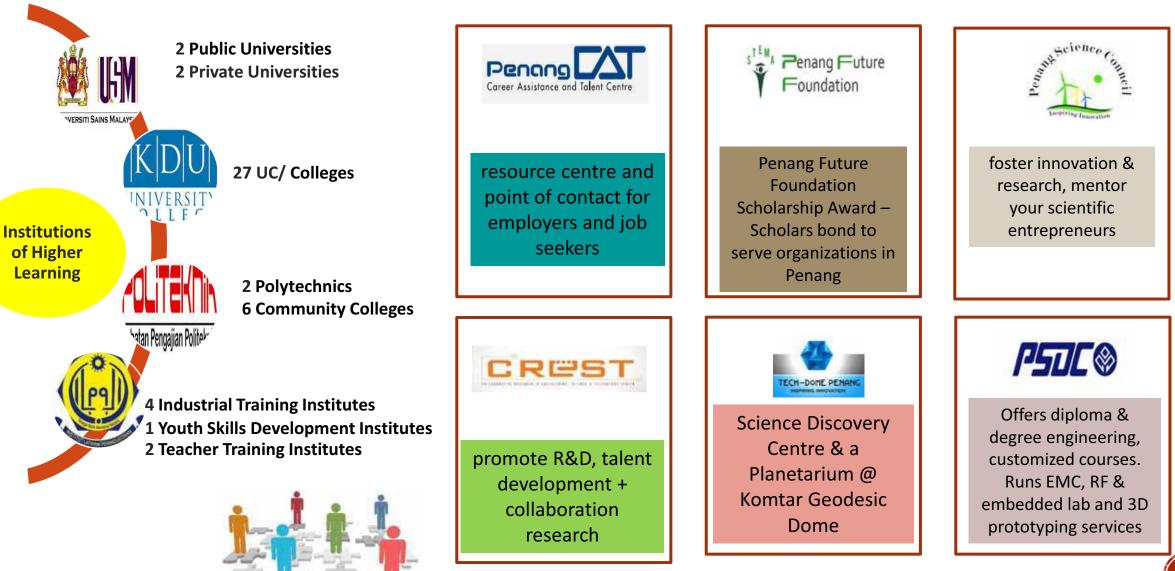
- Home for 1/3 of medical devices companies in Malaysia (55 out of total 190)
- In 2013, the total value of medical devices export from Malaysia is RM15.35B, 1/3 of it: RM5B is from Penang.

Strong presence of established supporting industries and supply chain

 Many local suppliers are certified with ISO 9001, ISO 13485, ISO 14000, ISO/TS 16949 and FDA certified for Medical Devices



Penang Education Ecosystem- Nurturing Talents



COMPETITIVE COST OF LIVING & DOING BUSINESS

- Relatively lower attrition rate (Penang: abt 5%)
- Stable wage inflation (Malaysia : 6%)
- Lower average of prime office rent
- Lower median salary of US\$ 338/mth KL/Selangor US\$444/mth Johor US\$350/mth
- Among cheapest water rates in Malaysia RM0.32/m3
- Among cheapest electricity rate in region

Country	Tariff (USD/KWh)
MAL	0.11
THA	0.11
IND	0.12
СНІ	0.13
SIN	0.23
PHI	0.27

Availability of **TALENTS.**

- Home to talent pool
 - >220k annual local graduates
 - > 70k studying overseas
 - 141,153 (64%) are from Engineering,
 Sciences & Computer and Business
 related
- Multilingual (English, Malay, Mandarin, Tamil, Japanese etc)
- Critical mass of multi-lingual, multicultural & experienced talents.

CONDUCIVE BUSINESS ENVIRONMENT

- Quality lifestyle & vibrant cultures
 "Work-Live-Play"
- Good connectivity & fully developed physical infrastructures with disasters free
- Stable economic profile
- >4 decades of cumulative industrial experience to support business eco-system (Penang: >300 MNCs & thousands SMEs)

Penang-Tranquil Island Resort in a Vibrant City...



STRONG IP PROTECTION

- Malaysia is a party of the following treaties:
 - World Intellectual Property Organisation (WIPO), 1967;
 - Paris Convention for the Protection of Industrial Property 1883;
 - Berne Convention for the Protection of Literary and Artistic Works, 1886;
 - Trade-Related Aspects of Intellectual Property Rights (TRIPS) Agreement
 - Patent Cooperation Treaty (PCT) 1970
- In April 30, 2012, the US Trade Representative announced via its Special 301 Report that Malaysia has been removed from the Watch List after making significant improvements in its intellectual property rights

Source:

http://iipdigital.usembassy.gov/st/english/article/2012/05/2012050249 14.html#axzz3b7FPHYMN



- IP in Malaysia comprises:
 - Patents
 - Trademarks
 - Industrial Designs
 - Copyrights
 - Geographical Indications
 - Layout Designs of Integrated Circuits





8th most livable cities in Asia

- "habitat of choice" for local and global talents
- Quality of life is key to attract & retain talents



UNESCO world cultural heritage site

- Vibrant showcase for art and creativity
- Best street food and beach resorts in the region

10 international schools

• American, British, Japanese, Taiwanese curricula



7 private hospitals with international accreditation

• 55% medical tourism revenue contribution by Penang



Pioneering Green State

 Promotion of recycling community , Green Building Index compliance & Sustainable water supply



Safe City

- Largest drop in crime index in Malaysia 15% drop in Q1 2014
- Installation of closed circuit televisions and police patrolling over hotspot areas

Home to global citizens

- 2000 expatriates in enjoy quality lifestyle with lower cost of living
- International associations (e.g.: International Women's Association)

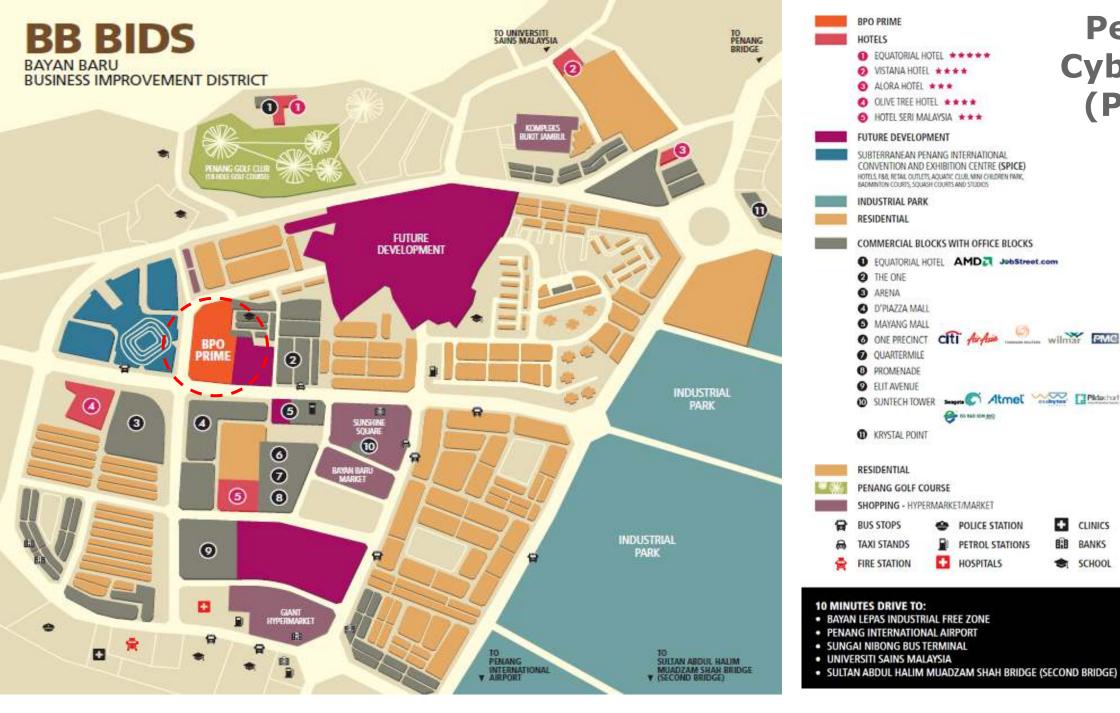
Penang Quality Lifestyle











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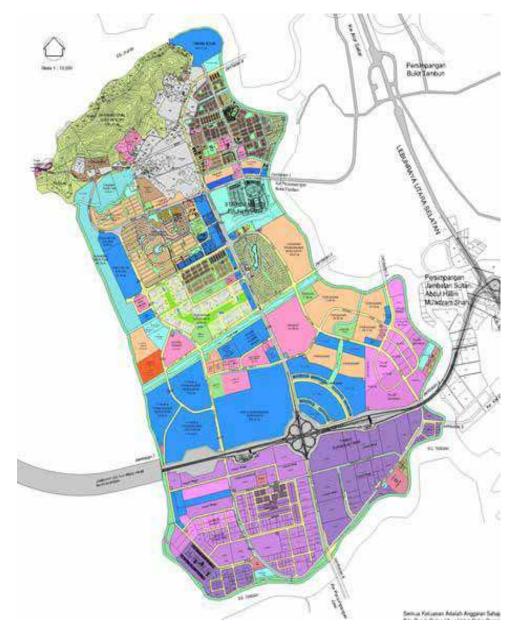
PENANG Strategic and Attractive Location for GBS companies



- Top 31 Business Process Outsourcing (BPO) locations of the future (KPMG's "Exploring Global Frontiers" Report 2009)
- Specialization- Engineering R&D and Product Design, Market Research & Analysis, Finance & Accountancy, IT Services & Support, Human Resources, Management, Supply Chain Management, Procurement, Payroll Processing and Customer Contact Centre
- Serving regional and global markets
- To-date created >8000 jobs



Batu Kawan Industrial Park: Positioned for Growth



Strong Industrial Base

Manufacturing base in automotive, engineering, medical devices, electronics



Emerging Supporting Clusters in Education and Logistics



One Auto Hub – University of Hull Campus, PKT automotive logistics facilities, warehouses, jetty (by 2017)



Degree courses in engineering, business, design, information systems (by 2017)

New Retail and Recreational Facilities



IKEA – integrated shopping mall development with offices and residences (over 5-10 years)



Planned theme park and golf resort



Creating more innovation-driven entrepreneur & develop Accelerator for Creative, Analytics, Technology (@CAT) ecosystem

- Wisma Yeap Chor Ee (WYCE) one of the elegant historic building within the George Town's heritage enclave,
- 100 years old of office space buildings retro-fitted to **state of** the art modern infra and deco; whilst maintaining old world charm
- To house creative & tech companies animation, games, interactive content, mobile content / applications, IOT, software/hardware
- Offers accelerator, incubation & co-working space

Raising More Local Stars!







ACCELERATING

emerging tech

Startups &

Entrepreneurs

NURTURING

computing,

applications

technology, BDA, IoT



Accelerate the establishment of growth of innovation-driven entrepreneurs in cloud, IoT, Big Data Analytics/GBS etc



DEVELOPING Penang's startup ecosystem





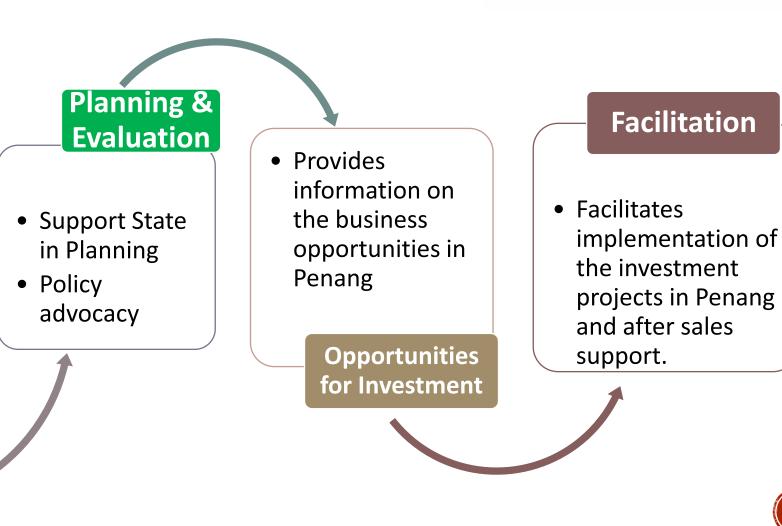


About investPenang



- The Principal Investment Promotion Agency of the Penang State Government for the promotion of the manufacturing & services sectors
- Point of contact for investors.
- Collaborates with Federal/ State agencies

Promotion





Thank you! www.investpenang.gov.my



Invest-in-Penang Berhad PSDC Building, 1, Jalan Sultan Azlan Shah, Bayan Lepas, 11900 Penang, Malaysia Tel: 604-646 8833 Fax: 604-646 8811

