

PENANG PARADIGM TOWARDS 2023

THE 3 DRIVERS OF PROGRESS

IDEAS

IDEAS ON

- → Freedom, justice and equity
- → Individual rights, social responsibilities and global welfare
- → Aesthetics and nature
- → Innovation and entrepreneurship

PRIVATE INVESTMENT

PRIVATE INVESTMENT TO DRIVE EFFICIENCY IN

- → Production, and
- → Distribution

subject to regulations to maximize social welfare

PUBLIC INFRASTRUCTURE

PUBLIC SECTOR TO ADMINISTER

- → The soft infrastructure (state institutions), to govern society and economy efficiently and fairly; and
- → The hard infrastructure (like communications) to provide high quality, cost-effective services



THE 3 SYSTEMIC PROPERTIES

HORIZONTAL
INTEGRATION OF
THE 3 DRIVERS OF
PROGRESS CREATES
PROCESSES
THAT PRODUCE
3 SYSTEMIC
PROPERTIES

ECONOMIC
DYNAMISM,
LIVEABILITY &
SUSTAINABILITY
AND SOCIAL
DEVELOPMENT &
INCLUSION

ECONOMIC DYNAMISM (ED)

- 1 The Growth Fundamentals
- 2 High-Tech Manufacturing
- 3 Modern Services
- 4 Moving SMEs up the Value Chain
- **5** Providing the Required Hard Infrastructure
- 6 Science & Technology Policy

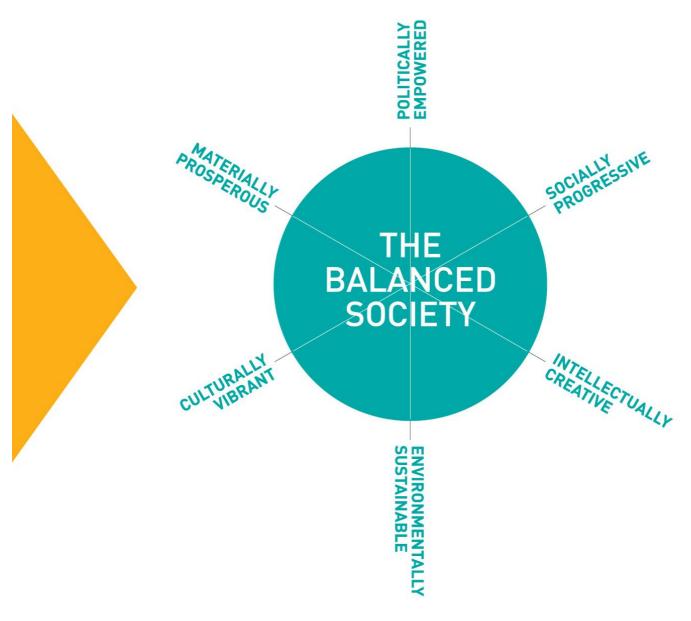
LIVEABILITY & SUSTAINABILITY (L&S)

- 1 Sustainable Planning
- 2 Transport System
- 3 Affordable Housing
- 4 Environment
- 5 Public Spaces
- 6 Heritage, Culture & Arts

SOCIAL DEVELOPMENT & INCLUSION (SD&I)

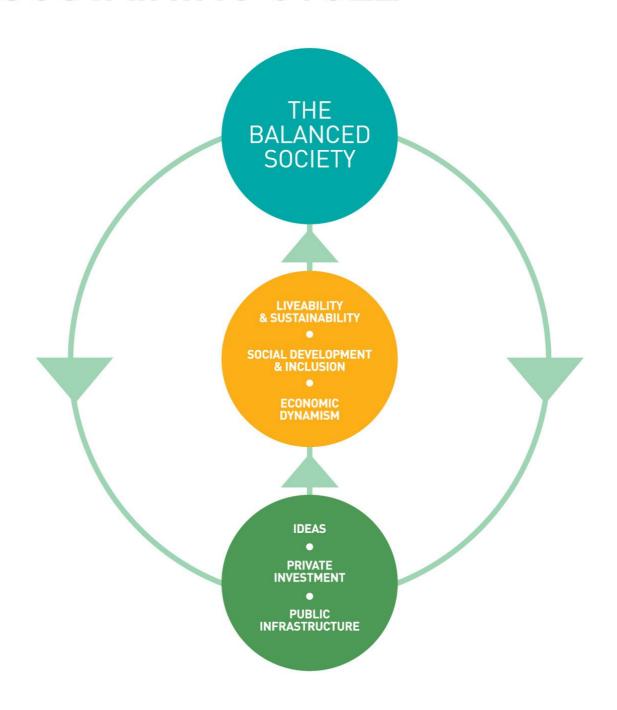
- 1 Combatting Poverty, Inequality and Discrimination
- 2 Family and Community Support
- **3** Economic Empowerment through Education
- 4 Democratic Empowerment

THE BALANCED SOCIETY

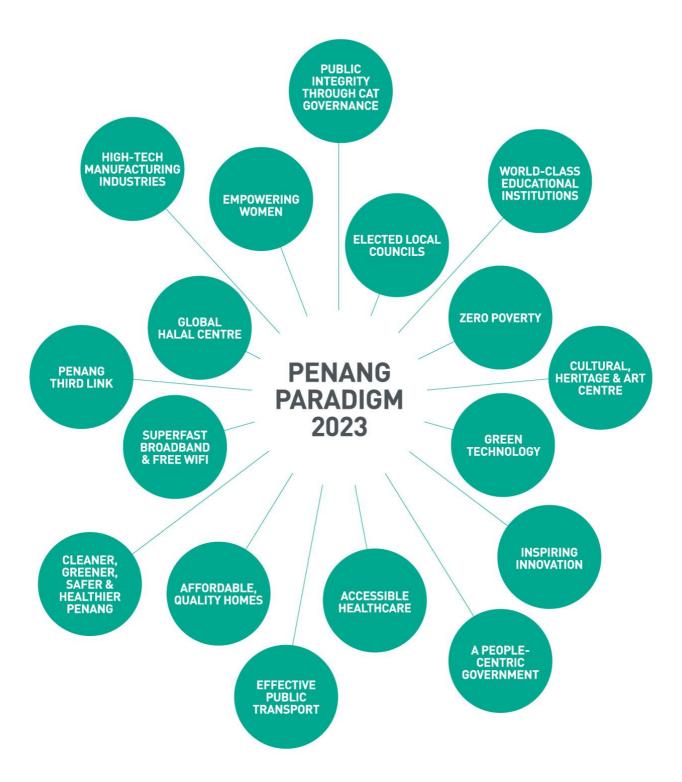


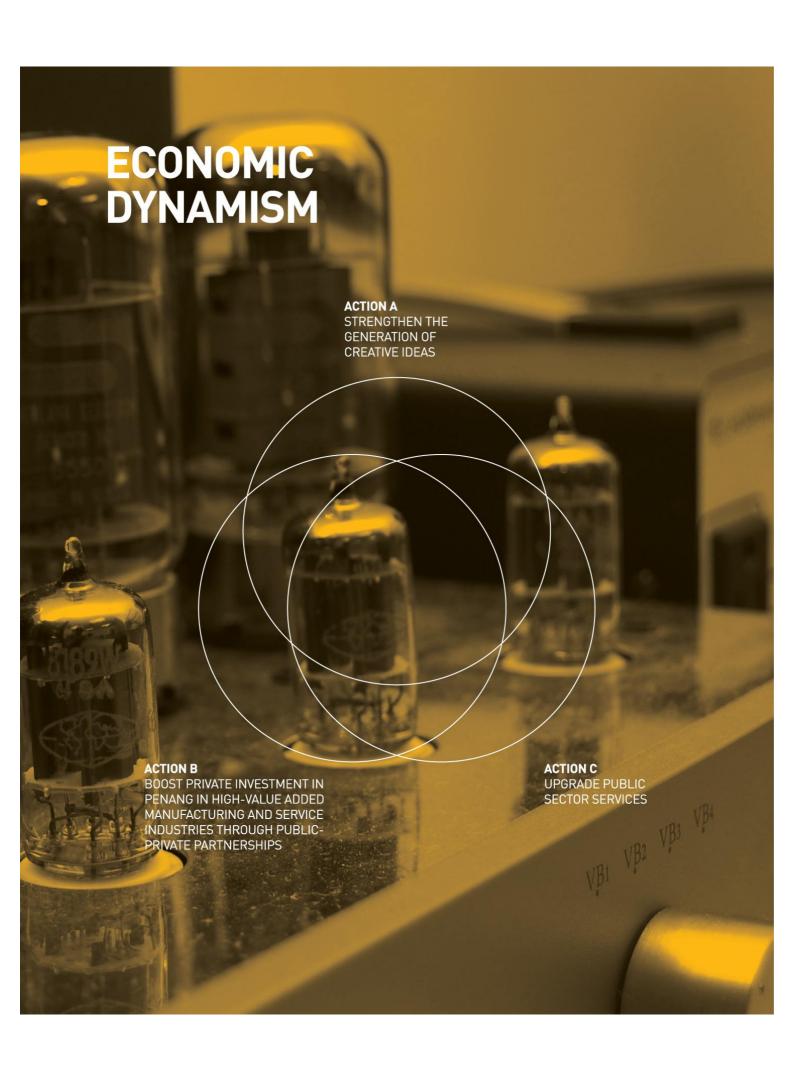
HORIZONTAL INTEGRATION OF THE 3 SYSTEMIC PROPERTIES (ED, L&S, AND SD&I) YIELDS THE BALANCED SOCIETY

THE SELF-SUSTAINING CYCLE



THE SIX TRAITS CREATE THE ATMOSPHERE CONDUCIVE TO THE FORGING OF A **HOLISTIC PARTNERSHIP** OF PUBLIC INFRASTRUCTURE, PRIVATE INVESTMENT AND CIVIL SOCIETY





THE ABC OF **ECONOMIC DYNAMISM**

THE RATE OF ECONOMIC GROWTH (Y) DEPENDS ON 3 DRIVERS

FACTOR A

THE NUMBER OF NEW USEFUL IDEAS DEPENDS ON THE NUMBER OF CREATIVE PEOPLE AND THE LEVEL OF TECHNOLOGICAL KNOWLEDGE.

FACTOR B

PRIVATE INVESTMENT CAN OCCUR ONLY IN A PRIVATE MARKET ECONOMY, AND THE LEVEL DEPENDS ON THE ANTICIPATED RATE OF RETURN WHICH IS. IN TURN. DETERMINED BY THE INCOME TAX RATE AND THE LEVEL OF CORRUPTION.

FACTOR C

ADEQUACY IN TWO TYPES OF **PUBLIC INFRASTRUCTURE**

- → SOFT INFRASTRUCTURE: THE QUALITY OF GOVERNANCE INSTITUTIONS THAT SUPPORT THE MARKET MECHANISM. E.G. LEGAL ADJUDICATION, LICENSING REGULATIONS
- → HARD INFRASTRUCTURE: THE COST OF SERVICES PROVIDED BY PUBLIC PHYSICAL CAPITAL, E.G. FEES FOR AIRPORT, INTERNET, ELECTRICITY, AND ROADS.

IN THE LONG-RUN. GROWTH (Y) IS A MULTIPLICATIVE PROCESS PRODUCED BY THE HORIZONTAL INTEGRATION OF THE 3 FACTORS:

 $Y = A \times B \times C$

WHERE GROWTH IS ZERO IF ANY FACTOR IS ZERO.

IN THE SHORT-RUN, GROWTH (Y) CAN BE AN ADDITIVE PROCESS:

Y = A + B + C, WHERE GROWTH CAN BE GENERATED EVEN IF TWO FACTORS ARE ZERO.

AN EXAMPLE THAT GROWTH IS ULTIMATELY A MULTIPLICATIVE PROCESS (A HOLISTIC PHENOMENON): THE USSR GENERATED HIGH GROWTH FOR 50 YEARS AFTER 1917 WITH ZERO PRIVATE INVESTMENT, BUT USSR IS NOW NO LONGER IN EXISTENCE.

ECONOMIC DYNAMISM

ECONOMIC GROWTH IN MALAYSIA AND PENANG

CURRENT PRACTICES

RESULTED IN

BRAIN DRAIN THROUGH SYSTEMATIC ANTI-MERITOCRATIC PRACTICES AND A STEADY DECLINE OF THE EDUCATION SYSTEM, AND CAPITAL FLIGHT INDUCED BY STATE-IMPOSED EQUITY QUOTA ON PUBLIC-LISTED COMPANIES. EXISTING ECONOMIC POLICIES PUSH FACTORS A AND B TOWARDS ZERO.

A STATE CANNOT BORROW TO BUILD INFRASTRUCTURE WITHOUT FEDERAL APPROVAL AND INFRASTRUCTURE SUCH AS AN AIRPORT RUNWAY CANNOT BE BUILT WITHOUT FEDERAL APPROVAL EVEN IF FUNDED BY THE STATE.

OVER-CENTRALIZATION OF POWER
IN THE FEDERAL GOVERNMENT
BLOCKS INDEPENDENT
DEVELOPMENT INITIATIVES BY STATE
GOVERNMENTS, THEREBY REDUCING
INVESTMENT IN THE REQUIRED HARD
INFRASTRUCTURE.

STEADY DECLINE IN QUALITY OF SOFT
INFRASTRUCTURE, E.G. ADORNA PROPERTIES
DECISION OF CHIEF JUSTICE EUSOFF CHIN IN 2000
DEPRIVING LAND-SCAM VICTIMS OF LEGAL REDRESS
(RULING WAS REVERSED ONLY IN 2010 BY NEW
FEDERAL COURT)

DETERIORATION OF SOFT INFRASTRUCTURE, RESULTING IN RED TAPE, DELAYS AND MORAL HAZARDS

---- BEFORE -

YEAR 2000

NEGATIVE GROWTH ASPECTS WERE OUTWEIGHED BY:

- → MASSIVE INWARD FDI:
- → BIG INVESTMENTS BY GLCS:
- → LARGE INFRASTRUCTURE PROJECTS FINANCED BY OIL AND GAS REVENUE.

- AFTER -

- → POST-1990 EXTERNAL TRENDS AND PRE-2000 EXTENDED PERIOD OF MISMANAGEMENT HAVE GREATLY REDUCED THE MAGNITUDES OF OFFSETTING FACTORS, RESULTING IN SIGNIFICANT SLOWDOWN IN GROWTH
 - MALAYSIA IN THE MIDDLE-INCOME TRAP.
- → ALSO SIGNIFICANT: (A) WORSENING IN INCOME EQUALITY; (B) LOSS IN BIO-DIVERSITY.

OVERVIEW OF AGENDA TO RESTORE ECONOMIC DYNAMISM TO PENANG

ACTIONS NEAR COMPLETION

REDUCE THE DELETERIOUS EFFECTS OF PRESENT FEDERAL POLICY REGIME IN PENANG:

- → REPLACE CRONY CAPITALISM WITH FAIR COMPETITION E.G OPEN TENDER PROJECTS;
- → DECENTRALISE POWER E.G. TO HOLD LOCAL COUNCIL ELECTIONS;
- → STOP THE DECLINE IN QUALITY OF GOVERNMENT SERVICE E.G. ADOPT CAT (COMPETENCY-ACCOUNTABILITY-TRANSPARENCY) PRINCIPLES.

ACTION A

STRENGTHEN THE GENERATION OF CREATIVE IDEAS:

- → RETAIN HUMAN TALENT AND ATTRACT HUMAN TALENT FROM ELSEWHERE BY STRENGTHENING:
 - THE PRACTICE OF MERITOCRACY;
 - GROWTH OF HIGH WAGE INDUSTRIES:
 - LIVEABILITY:
 - SOCIAL HARMONY.
- → ENHANCE HUMAN CAPITAL INVESTMENT THROUGH:
 - EFFECTIVE MOBILISATION OF TALENTS BORN IN LOW-INCOME FAMILIES BY ELIMINATING POVERTY;
 - STATE ALLOCATIONS TO IMPROVE SCHOOLS AND EARLY CHILDHOOD FOLICATION

ACTION B

BOOST PRIVATE INVESTMENT IN PENANG IN HIGH-VALUE ADDED MANUFACTURING AND SERVICE INDUSTRIES THROUGH PUBLIC-PRIVATE PARTNERSHIPS:

- → IMPROVE INFRASTRUCTURE;
- → HELP SMES GROW INTO WORLD-CLASS COMPANIES;
- → INCREASE SUPPLY OF SKILLED MANPOWER.

ACTION C

UPGRADE PUBLIC SECTOR SERVICES:

- → REFORM GOVERNANCE STRUCTURE TO EMPOWER LOCAL INITIATIVES, E.G. ADOPT FISCAL FEDERALISM;
- → ADOPT CAT PRINCIPLES IN GOVERNANCE.

EMBED THE PEOPLE-CENTRIC 3E-VISION OF PUBLIC SERVICES TO

- → ENABLE THE PEOPLE WITH SKILLS, KNOWLEDGE AND EXPERTISE;
- → EMPOWER THE PEOPLE WITH RIGHTS, FREEDOM AND OPPORTUNITIES;
- → ENRICH THE PEOPLE BY ENSURING THAT THE WEALTH IS EQUITABLY SHARED.

CURRENT SITUATION IN MANUFACTURING & BIO-AGRO SECTOR

ECONOMIC

- → AROUND 50% OF PENANG'S GDP COMES FROM MANUFACTURING; MORE THAN 60% OF THAT IS FROM THE ELECTRICAL AND ELECTRONICS (E&E) INDUSTRY.
- → E&E GROWTH IN MALAYSIA HAS SLOWED DOWN SINCE THE 1990S, AND THE SITUATION HAS BEEN WORSENED IN THE 2000S BY THE DIVERSION OF FDI TO OTHER EMERGING COUNTRIES IN ASIA.
- → MALAYSIA'S COST IS UNCOMPETITIVE COMPARED TO LOWER-INCOME COUNTRIES, AND MALAYSIA IS TECHNOLOGICALLY BACKWARD COMPARED WITH THE ADVANCED COUNTRIES.
- → FROM LATE 2000S, HOWEVER, OWING TO EFFECTIVE PROGRAMMES BY THE STATE GOVERNMENT AND LOCAL AGENCIES TO PROMOTE GROWTH OF HIGH-VALUE-ADDED INDUSTRIES AND TO CREATE AN ENABLING BUSINESS AND INNOVATION ENVIRONMENT, MNCS STARTED TO MOVE UP THEIR VALUE CHAIN BY LAUNCHING R&D CENTRES AND LOCATING SHARED SERVICES CENTRES IN PENANG FOR THEIR GLOBAL OPERATIONS IN ACTIVITIES SUCH AS HR AND FINANCE.
- → MEDICAL DEVICE INDUSTRIES (MDI) AND BIO-PHARMACEUTICALS (E.G. CONTRACT RESEARCH OUTSOURCING AND CLINICAL RESEARCH) ARE MOVING FROM ADVANCED COUNTRIES (US/EU/JP) TO EMERGING ASIA DUE TO COST INCENTIVES AND MARKET OPPORTUNITIES.
- → WITH THE PRESENCE OF MNCS IN MDI AND SMES IN BIO-PHARMACEUTICALS, PENANG IS IN THE EARLY STAGE IN THESE FIELDS, AND THE POTENTIAL TO GROW IS HUGE.
- → FOOD PROCESSING ALSO REPRESENTS A SIGNIFICANT SOURCE OF INCOME FOR PENANG, ESPECIALLY WITH THE DEVELOPMENT OF THE GLOBAL HALAL CENTRE IN PENANG.
- → PENANG SHOULD BECOME THE SERVICE AND TRANSPORTATION HUB OF THE FAST-GROWING SEAFOOD AQUACULTURE INDUSTRY IN KEDAH, PERLIS AND PERAK.



ECONOMIC

OF THE SHARED SERVICES OUTSOURCING (SSO) SECTOR

- → MALAYSIA HAS BEEN RANKED 3RD IN SSO (SHARED SERVICES OUTSOURCING) FOR 8 YEARS IN A ROW SINCE 2004, BEHIND CHINA AND INDIA.
- → PENANG WAS NAMED ONE OF THE NEW EMERGING ICT-BPO (INFORMATION AND COMMUNICATION TECHNOLOGY – BUSINESS PROCESS OUTSOURCING) DESTINATIONS BY KPMG IN 2009.
- → THE VALUE OF ICT-BPO INDUSTRY TO PENANG IS ESTIMATED TO BE ABOUT US\$800 MILLION.
- → MNCS ARE ALSO "INSOURCING" THEIR SERVICES (SUCH AS HR, PAYROLL PROCESSING AND FINANCE), AND BASING THEIR GLOBAL OPERATIONS IN PENANG, E.G. AMD, INTEL AND DELL. CITIGROUP IN PENANG IS NOW A GLOBAL TRADE PROCESSING CENTRE, SERVICING TRADE & CASH BUSINESSES.
- → PENANG CYBERCITY IS CREATED ALONG WITH OTHER CYBERCITIES AND CYBERCENTRES (KLANG VALLEY, JOHOR, PERAK, KEDAH, ETC) TO PROMOTE ICT GROWTH BY PROVIDING PHYSICAL LOCATION AND OTHER INCENTIVES (E.G. LIBERAL EMPLOYMENT, OWNERSHIP & FUND-RAISING REGULATIONS, LOWER TARIFFS) VIA BILL OF GUARANTEES (BOG). HOWEVER, UNLIKE CYBERJAYA, THE CYBERCITIES (INCLUDING PENANG) ARE NOT GIVEN WORLD-CLASS NETWORK INFRASTRUCTURE.

COMPANIES WITH SSO IN PENANG:

AMD

INTEL

MOTOROLA

DELL

CITI GROUP

PLEXUS

AVAGO TECHNOLOGIES

JARIL

AGILENT TECHNOLOGIES

TOTAL SALES OF MSC MALAYSIA COMPANIES IN 2011:

RM 31.73 BILLION

AMOUNT OF ICT SPENDING EXPECTED IN MALAYSIA IN 2013:

RM10 BILLION

ICT SPENDING GROWTH RATE FOR 2012:

7.6%



CURRENT SITUATION IN THE SME SECTOR

- → SMES CONSTITUTE THE BACKBONE OF THE MALAYSIAN ECONOMY, CONTRIBUTING 32.5% OF MALAYSIAN GDP, AND EMPLOYING 57% OF THE WORKFORCE. WITHIN THE MALAYSIAN MANUFACTURING SECTOR, SMES ACCOUNT FOR 97% OF THE FIRMS AND 50% OF THE EMPLOYMENT.
- → PENANG IS HOME TO 6% OF THE COUNTRY'S SMES. WITHIN THE PENANG MANUFACTURING SECTOR, SMES ACCOUNT FOR 88% OF THE FIRMS AND 26% OF THE EMPLOYMENT. KEY SME SECTORS IN PENANG INCLUDE FABRICATED METAL PRODUCTS; AUTOMATION, MACHINERY & PRECISION TOOLING AND FOOD & BEVERAGES; ALL OF WHICH ACCOUNT FOR 41% OF THE SME ESTABLISHMENTS AND 33% OF SME EMPLOYMENT.
- → PENANG IS THE ONLY STATE WITH A STRATEGY TO ACCELERATE THE DEVELOPMENT OF THE SME SECTOR. SINCE 2008, PENANG HAS ADOPTED A FORWARD-LOOKING 3-PRONGED APPROACH WITH THE ESTABLISHMENT OF THE SMART CENTRE, SME CENTRE AND SME VILLAGES. THIS NEW WAVE OF SUPPORT IS HAVING A POSITIVE EFFECT ON THE DEVELOPMENT OF SMES IN THE STATE. INDEED, OF THE SIX WINNERS IN THE NATIONAL SME INNOVATION AWARDS IN 2012, FOUR WINNERS WERE FROM PENANG.
- → YET CHALLENGES REMAIN. KEY OBSTACLES TO THE GROWTH OF THE SME SECTOR ARE, THE EQUITY QUOTA REQUIREMENT IMPOSED BY THE FEDERAL GOVERNMENT ON PUBLIC LISTED FIRMS, THE BARRIERS IN OBTAINING INVESTMENT CAPITAL AND WORKING CAPITAL, A SHORTAGE OF MEDIUM-SKILLED TECHNICAL PERSONNEL AND DIFFICULTIES IN MARKETING PRODUCTS ABROAD.
- → THE EXPERIENCE OF TAIWAN SHOWS THAT THE BENCHMARK FOR THE SUCCESS OF AN SME IS ITS EMERGENCE AS A WORLD-CLASS EXPORTER. THE FEDERAL AGENCIES SHOULD FACILITATE THE TRANSITION OF SMES TO WORLD-CLASS EXPORTERS BY:
 - 1. HELPING TO FUND THE INDEPENDENT INITIATIVES BY STATE GOVERNMENTS (SUCH AS THE 3-PRONGED SME STRATEGY OF THE PENANG STATE GOVERNMENT) TO PROMOTE SME DEVELOPMENT, AND
 - 2. REFORMING FEDERAL POLICIES THAT RETARD THE GROWTH OF SMES, E.G. BY REMOVING TARIFF PROTECTION ON GLCS THAT SUPPLY INPUTS TO SMES BECAUSE THE CONSEQUENTLY HIGHER-PRICED ONPUTS ARE RENDERING MALAYSIAN SMES LESS COMPETITIVE INTERNATIONALLY.

SMART CENTRES

PENANG'S 3-PRONGED APPROACH

SME VILLAGES SME CENTRE

ECONOMICDYNAMISM

PENANG'S GROWTH IN POPULATION AND ECONOMY IN THE LAST 30 YEARS HAS PUT UNPRECEDENTED PRESSURE ON ITS LOGISTICS AND INFRASTRUCTURE NETWORK:

- → PENANG HAS THE LOWEST WATER TARIFF AND HIGHEST WATER CONSUMPTION PER CAPITA IN ALL MALAYSIA.
- → OVER-RELIANCE ON 1 RAW WATER SOURCE: 80% OF ITS RAW WATER COMES FROM ONE LOCATION, SUNGAI MUDA.
- → MALAYSIA RANKED IN THE BOTTOM FIFTH IN DESKTOP INTERNET SPEED IN GOOGLE'S STUDY (2012), ONLY ABOVE VENEZUELA, INDIA, PHILIPPINES AND INDONESIA.
- → PENANG PORT'S SEABED LACKS THE DEPTH NEEDED FOR WIDER SHIPS TO CALL. THE RM350 MILLION PENANG PORT DREDGING PROJECT WAS PROMISED IN 9TH MALAYSIA PLAN (2006-2010) AND SUGGESTED TO BE DONE IN THE CORRIDORS AND CITIES TRANSFORMATION PROGRAMME.
- → SWETTENHAM PIER WAS OPENED IN 2009 TO BRING IN TOURISTS VIA CRUISE SHIPS.
- → THE PENANG FERRY IS AN ICONIC TOURIST ATTRACTION, BUT IT IS BADLY MAINTAINED AND NEEDS A MAJOR OVERHAUL. THE FERRY OPERATION IS EXPECTED TO LOSE RM15.7 MILLION IN 2012.
- → BY 2014 THE PENANG INTERNATIONAL AIRPORT (PEN) WILL HAVE INCREASED ITS CAPACITY TO 6.5 MILLION PASSENGERS PER YEAR. IT IS PROJECTED THAT MAXIMUM CAPACITY WILL BE HIT BY 2016. ITS RUNWAY IS STILL TOO SHORT TO ALLOW A FULLY-LOADED FULLY-FUELLED LARGE COMMERCIAL AIRCRAFT TO TAKE OFF.



DIA (15.1)

DNESIA (20.3

ECONOMIC DYNAMISM

CURRENT SITUATION IN SCIENCE & TECHNOLOGY ECO-SYSTEM

COMPONENTS INVOLVED IN GENERATION OF SCIENTIFIC KNOWLEDGE/NEW TECHNOLOGY & ENTREPRENEURSHIP

LIMITED KNOWLEDGE POOL + LOW QUALITY RESEARCH AND EDUCATION INSTITUTIONS → POOR TECHNO-PRENEURSHIP

MUTUAL

INTERACTION

PRIVATE SECTOR

- → 92.2% OF TOTAL PATENTS GRANTED IN MALAYSIA IN 2009 ARE OWNED BY FOREIGNERS.
- → TOP 5 FIELDS OF TECHNOLOGY WHERE PATENTS WERE GRANTED: CHEMISTRY & METALLURGY (837 PATS), HUMAN NECESSITIES (656 PATS), OPERATIONS & TRANSPORT (633 PATS), ELECTRICITY (497 PATS), PHYSICS (488 PATS).
- → MAINLY PRODUCT DESIGN & DEVELOPMENT (D&D) WORK.
- → MNCS PREFER TO DO HIGH-END RESEARCH IN HOME COUNTRY, PARTLY DUE TO LACK OF EXPERTISE, RIGHT ATTITUDE & RIGHT APTITUDE IN MALAYSIA.
- → LOCAL COMPANIES LACK RESOURCES TO CONDUCT R&D.
 - FINANCIAL BARRIERS
 - PROBLEMS RETAINING HIGHLY-SKILLED LABOR
- → MOST LOCAL ENTREPRENEURS ARE FORMER EMPLOYEES OF MNCS AND ARE SATISFIED TO RELY ON MNC TECHNOLOGY – THERE IS A LACK OF DRIVE TO BE INNOVATIVE.

RESEARCH & EDUCATION INSTITUTIONS (REIS)

- → INTERNATIONALLY, REIS ARE GENERALLY THE CENTRES FOR NEW KNOWLEDGE, BUT IN MALAYSIA, MANY REIS ARE RIGID IN OPERATION AND ARE OUTDATED IN KNOWLEDGE. MANY GRADUATES FROM MALAYSIAN UNIVERSITIES LACK CREATIVITY AND COMMUNICATIONS AND PROBLEM-SOLVING SKILLS, AND HAVE A LOW APTITUDE FOR NEW KNOWLEDGE.
- → PRIVATE COLLEGE / UNIVERSITIES: FOCUSED ON INCREASING ENROLMENT & NUMBER OF STUDENTS GRADUATING; LITTLE R&D
- → PUBLIC UNIVERSITIES:
 - ANECDOTAL ASSESSMENT OF RESEARCH ACTIVITY RANGE FROM "OUT-DATED" TO "TOO ACADEMIC" (NOT PRACTICAL) ALBEIT, SOME POCKETS OF VERY GOOD RESEARCH STILL SEEN
 - LACK RESOURCES TO IMPROVE

STATE GOVERNMENT MEASURES SINCE 2008

MANUFACTURING & SMES

- → STRENGTHENED THE CAPACITY OF INVEST PENANG AND PDC TO ATTRACT NEW INVESTMENT:
 - DEVELOPMENT OF BATU KAWAN INTO A HIGH-TECH GREEN PARK:
 - TOP MEDICAL DEVICES COMPANIES HAVE SET UP OPERATIONS IN PENANG;
 - HALAL PARK IN BUKIT MINYAK ACHIEVED FULL TENANCY IN 2012, WITH GLOBAL HALAL CENTRE NOW BEING ESTABLISHED
- → ESTABLISHING A CENTRE OF EXCELLENCE FOR SCIENCE AND TECHNOLOGY (S&T) THROUGH CREATING:
 - PENANG SCIENCE CLUSTER IN 2010 TO HELP DEVELOP S&T TALENT;
 - PENANG SCIENCE COUNCIL JOINTLY WITH INDUSTRIES TO ENCOURAGE INNOVATION:
 - PENANG TECHNOLOGY CENTRE (TECH-DOME PENANG) TO BE THE HOME FOR PENANG SCIENCE OF USTER SET.
 - CAREER ASSISTANCE AND TALENT (CAT)
 CENTRE TO BUILD, RETAIN AND ATTRACT
 TALENT:
 - R&D FACILITIES TO SPEARHEAD INNOVATION, E.G. SHARED LABS BY PENANG SKILL DEVELOPMENT CENTRE (PSDC).
- → IMPLEMENTED A COMPREHENSIVE STRATEGY TO FACILITATE SME FORMATION AND MOVE THEM UP THE VALUE CHAIN:
 - RM 6 MILLION FOR MICRO-FINANCING PROJECT / 'PROJEK TITIAN SAKSAMA RAKYAT' (PTSR) WITH PROVISION FOR A DOUBLING OF THAT SUM IN FUTURE;
 - SME MARKET ADVISORY, RESOURCE AND TRAINING (SMART) CENTRE:
 - SME CENTRE IN BAYAN LEPAS;
 - SME VILLAGES IN BATU KAWAN:
 - PENANG RESEARCH, INNOVATION AND SCIENCE MODE (PRISM) TO ENCOURAGE R&D ACTIVITIES IN SUNRISE INDUSTRIES
 - 4 OF 6 NATIONAL SME INNOVATION AWARDS IN 2012 WON BY PENANG SMES.

TOURISM

- → ESTABLISHED PENANG GLOBAL TOURISM (PGT)
 IN 2008 TO PROMOTE TOURISM:
- → ENACTED THE PENANG HILL CORPORATION (PHC) TO DEVELOP PENANG HILL INTO THE PREMIER HILL RESORT IN MALAYSIA;
- → FOUNDED THE GEORGE TOWN WORLD HERITAGE INCORPORATED (GTWHI) TO PROTECT, CONSERVE AND PROMOTE GEORGE TOWN'S HERITAGE;
- → FACILITATED FAST-TRACK APPROVAL FOR HOSPITAL EXPANSIONS TO CATER TO FAST GROWTH OF MEDICAL TOURISM;
- → FACILITATED NEW ECO-TOURISM ATTRACTIONS SUCH AS ESCAPE THEME PARK;
- → BOOSTED EDUCATION TOURISM BY MAKING BALIK PULAU AN EDUCATION HUB: ASIAN WOMEN'S LEADERSHIP UNIVERSITY (AWLU), ASSOCIATED WITH SMITH COLLEGE IN USA, HAS APPLIED FOR FEDERAL APPROVAL TO ENROL STUDENTS IN 2015

HARD INFRASTRUCTURE

- → ESTABLISHED PENANG FREE WIFI WITH FREE PUBLIC ACCESS IN PUBLIC PLACES;
- → STARTED NEXT GENERATION NETWORK (NGN) PROJECT OF PDC TELCO: OPEN TENDER IN 2013 FOR MICRO-TRENCHING TO LAY FIBRE-OPTIC CABLES THROUGHOUT PENANG:
- → INITIATED PROCESS TO UNDERTAKE 4 MAJOR ROAD PROJECTS, INCLUDING TO STUDY BUILDING A THIRD LINK (A SEA TUNNEL) TO CONNECT PENANG ISLAND AND NORTH SEBERANG PERAI.

MOVING UP THE INDUSTRIAL VALUE CHAIN

AN INEFFICIENT ECONOMIC SYSTEM	SHORTAGE OF KNOWLEDGE WORKERS	LACK OF LOCAL INNOVATIVE CAPACITY	UNREALISED POTENTIAL OF STRATEGIC LOCATION
	STRAT	EGIES -	
Economic System	Human Capital	Innovative Eco-system	Regional Cooperation
	INITIATIVE	S (TO 2025)	
 Increasing economic efficiency by empowering the private sector within a competitive environment Developing the coast on the island and on Seberang Perai to enhance convergence of trade liberalisation and freedom of movement of capital and labour 	Cultivating human capital by training, retaining and attracting talent Pushing the Federal Government to extend the 15% income tax rate presently enjoyed by returning experts and professionals with similar skill sets nationwide Collaborating with universities to structure high-quality curriculum that is consistent with knowledge-led growth Establishing a merit- based scholarship fund for talented Malaysians with a bond to be served in Penang	Promoting interest in S&T among the youth Identifying international firms that develop innovative products and attracting them to Penang Accelerating the diffusion of new developments in S&T in Penang Spurring the teaching of ESTEEM to cultivate the innovative ideas outside classroom Creating innovative R&D ecosystem through more joint initiatives between industry and state government agencies	Encouraging the teaching and learning of regional languages Becoming the regional hub of the manufacturing supply chain and marketing chain linking northern Sumatra, southern Thailand, southern Myanmar and Peninsular Malaysia Capitalise on economies of scale, freedom of movement of skilled labour and regional trade through AEC
	MILESTON	ES BY 2018	
• CAT principles institutionalised within all State agencies and contracts.	20% knowledge workers (managerial & professionals) in total workforce (2010: 16.8%). 1 additional comprehensive university.	 Increased number of patents registered. Expanded programmes under the Penang Science Cluster & Tech-Dome Penang Initiatives. 	 Active support for the Indonesia-Malaysia- Thailand Growth Triangle and trade missions in northern Sumatra, southern Thailand and southern Myanmar.

MODERN SERVICES

UNEXPLOITED SYNERGY FROM CIVIL- SOCIETY- GOVERNMENT- BUSINESS PARTNERSHIP	LONG-TERM UNDERINVESTMENT IN AIRPORT, SEA PORT, FERRY AND PUBLIC TRANSPORT	LOW BROADBAND PENETRATION AND LOW INTERNET SPEED	ECOLOGICAL NICHE NOT Utilised
	STRAT	EGIES -	
Industry – Government – University Cooperation	Federal transport infrastructure	Improvement of internet infrastructure	Agriculture and aquaculture
	INITIATIVE	S (TO 2025) ——	
Enhancing cooperation between industry and universities in consulting relationships and in curriculum design Building up partnerships between hospitals and research institutes for clinical research purposes	Working with Federal authorities to: Expand the airport terminal (scheduled to reach full capacity by 2016), build an integrated cargo complex, a MRO hub and a second runway plus lengthen and broaden the current runway Deepen the North Channel and improve cargo-handling capacity Enlarge the Penang Port through reclamation to allow development of a logistics hub, halal centre and centralised tanking facilities	Expecting the 2nd Cybercity in Bertam with high-speed broadband Reducing barriers to entry to promote competition in the telecom market Expanding super speed broadband to the whole state	Developing AIDZ to increase fish production and to fulfil the increased demand towards fish consumption Establishing a Young Agro-Entrepreneurs Fund to assist young and new entrepreneurs Reducing red tape to achieve a more efficient approval process Providing logistics and marketing channel for international seafood processing companies
	MILESTON	ES BY 2018 ———	
Cluster of E&E, Medical Devices, and Bio Pharmaceuticals. Database of technical experts as consulting resource for firms. Apprenticeships & internships for college students in local industries	Airport runway extended to 3,700m to allow direct B747 flights; runway, aprons and gate widths expanded and broadened to allow operation of Airbus A380. North Channel dredged to 15m. Further expansion and modernisation of Penang port from the present feeder port to an international port. Penang Sentral transport hub in Butterworth.	 On the way to completing 2nd Cybercity by 2020. Increase internet speed to 10 Mbps. >50% of Penang population linked with fibre-optic cables. 	Service and transportation hub for seafood aquaculture in the region. Maintain Penang's position of having the highest yield in rice cultivation in Malaysia.

MOVING PENANG'S SMES ONTO THE GLOBAL STAGE

LARGE AND GROWING DEMAND FOR HALAL FOOD, A POTENTIAL TO BE

SME SECTOR IN MALAYSIA IS UNDERDEVELOPED: SMES SELDOM DEVELOP INTO WORLD-CLASS EXPORTERS LIKE IN TAIWAN. TRANSPORT INFRASTRUCTURE NOT KEEPING UP WITH POPULATION & ECONOMIC GROWTH

Penang as a Global Halal Centre

Working with hospitality, catering and business schools to increase number of halal training modules.

- Expanding halal training via PSDC.
- Partnering with private sector on trade missions to tap potential export markets for halal food.

STRATEGIES

Moving SMEs up the value

INITIATIVES (TO 2025)

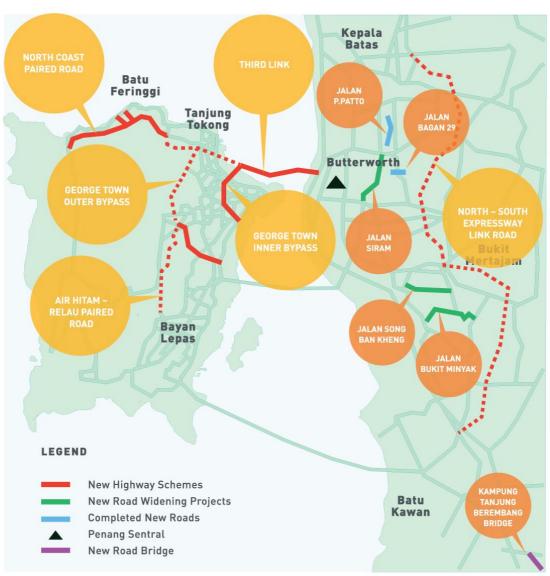
- Working with MNCs to strengthen State SME programmes.
- Working with financial institutions to encourage SME access to funding and attracting industrial venture capital funds to invest in Penang SMEs.
- Working with Federal Government to:
 - Encourage SME growth by reviewing the requirements for listing on the stock exchange;
 - Remove the subsidies given to GLCs because the unfair competition keeps the SMEs from achieving the economies of scale that would enable them to become exporters;
 - Stop limiting the banking sector to a few big banks because small banks are much more willing to lend to small businesses.

Improving Transport Connectivity

- Developing new strategic road links including a Third Link between the Island and Mainland by 2030 (see map in next page).
- Developing a plan for new public transport infrastructure based on trams and bus rapid transit.
- Promoting Penang to be an international seaport, with regional port status to be the medium-term target.
- Promoting free bus shuttle services and park-and-ride schemes

- 1 institute to offer specialised halal training.
- RM500 million worth of investment achieved.
- New formal structure for MNCs to mentor SMEs
- 4 new strategic road links under construction.
- Expanded free bus shuttle services and park-and-ride schemes.
- Upgrading and new road works being planned on the mainland on a comprehensive scale linking not just the 3 districts on the Mainland but also to the Island.

PROVIDING THE REQUIRED HARD INFRASTRUCTURE



Source: New proposed highway schemes from Penang Integrated Transport Master Plan, 2012 & Jabatan Kerja Raya. Alignments shown for illustration purposes only.

DEVELOPING INNOVATION THROUGH SCIENCE & TECHNOLOGY

- HERITAGE RECREATIONAL
 MEDICAL RELIGIOUS
 FOOD FRUIT ECOLOGICAL

NEED TO ESTABLISH PENANG AS AN EXOTIC WINTER RETREAT

REGIONAL EDUCATION HUB

Improving tourism infrastructure and promotion

• Working with airlines to increase direct

- flights to key destinations Working with Federal Government agencies to develop George Town & Butterworth waterfronts and improve condition of Swettenham Cruise
- Terminal and build 4 more berths • Encouraging development of marina facilities by private sector
- Better coordination with Tourism Malaysia and Malaysia Healthcare Travel

STRATEGIES

Focussing on key tourism growth areas

INITIATIVES (TO 2025)

- · Promoting Penang as a heritage and eco-tourism destination for high- and middle-income travellers
- Marketing Penang's rich cultural, religious and culinary heritage as unique attracting
- Developing MICE tourism with new conference and exhibition venues
- Equipping airport with medical services and facilities to receive medical tourists
- Establishing Penang Hill as the premier hill resort in Malaysia
- Increasing the number of hotel rooms
- · Safeguarding the authenticity of local Penang food

Establishing Penang as a regional education hub

- Attracting foreign universities to set up campuses in Penang
- Increasing industry-universities linkages Providing specialised professional courses
- in collaboration with famous Penang Promoting education via regional
- education fairs and through new trade and investment offices in northern Sumatra, southern Thailand and southern Myanmar

Working with Federal agencies to:

- - Update their criteria and procedures for approving the upgrading and setting up of educational institutions; and
- Improve the visa issuance process for foreign students seeking to study in Malaysia

- . Direct flights to key destinations in Europe and Northeast Asia.
- George Town & Butterworth waterfront developments underway.
- New marinas and waterfronts on Mainland & Island linked by fast ferries.
- · Pulau Jerejak developed as an ecoheritage resort.
- · Penang cultural and food fairs in major target cities around the world.
- 2 new MICE venues.
- 50% increase in tourist receipts.
- · Federal approval for establishment of Asian Women Leadership University.
- New professional training institutes.
- · Increased number of international

LIVEABILITY & SUSTAINABILITY TRANSPORTATION **ENVIRONMENT PUBLIC SPACES** HOUSING **PLANNING CULTURE, HERITAGE & ARTS**

PLANNING AND CULTURE, ARTS & HERITAGE



PLANNING

- → HISTORICALLY, PENANG'S DEVELOPMENT FOCUS HAS BEEN EXCLUSIVELY ON ITS INDUSTRIAL STRATEGY. DURING PENANG'S RAPID INDUSTRIALISATION, PLANNING FOR A 'LIVEABLE CITY' WAS NOT A HIGH PRIORITY, LEADING TO AN AD-HOC PLANNING AND MITIGATION APPROACH, WHERE THE DEVELOPMENT FOCUS WAS ON EXPLORING NEW LAND, LEADING TO URBAN SPRAWL.
- → AN INCREASINGLY GLOBALISED WORLD OFFERS PEOPLE GREATER CHOICE ABOUT WHERE THEY LIVE: MORE PEOPLE CHOOSE WHERE THEY LIVE BEFORE CHOOSING WHERE THEY WORK.
- → PENANG'S POPULATION IS PROJECTED TO REACH 2.5 MILLION BY 2030, WHICH WILL LEAD TO MORE COMPETITION FOR SPACE AND HIGHER DEVELOPMENT PRESSURES ON LIMITED LAND.
- → PENANG NEEDS TO BECOME MORE LIVEABLE IN ORDER TO RETAIN LOCAL TALENTS AND TO ATTRACT GLOBAL TALENTS.
- → LAND-USE PLANNING AND THE BUILT ENVIRONMENT WILL BE DECIDING FACTORS IN THE FUTURE SUSTAINABILITY OF PENANG.

CULTURE, ARTS & HERITAGE

- → PENANG IS A MELTING POT OF DIVERSE CULTURES WHICH HAVE EACH LEFT A VIBRANT ARTISTIC AND CULTURAL LEGACY.
- → PENANG'S LIVING HERITAGE FINDS EXPRESSION THROUGH A COMBINATION OF ARCHITECTURE, ETHNIC QUARTERS, LANGUAGES, FESTIVALS, DANCES, COSTUMES, ARTS, MUSIC, FOOD AND LIFESTYLES.
- → PENANG HAS BEEN THE HOME TO SIGNIFICANT PIONEERS OF MODERN ARTS.
- → SINCE 2008, GEORGE TOWN'S INSCRIPTION AS A UNESCO WORLD HERITAGE SITE HAS LED TO A LARGE GROWTH OF HERITAGE TOURISM.
- → MORE RECENTLY, INNOVATIVE MURALS AND OTHER STREET ART HAVE ADDED TO THE VIBRANCY OF GEORGE TOWN'S STREETS.

→ CHALLENGES:

- MIGRATION OF ORIGINAL COMMUNITIES AND TRADITIONAL BUSINESSES AWAY FROM THE HERITAGE SITE:
- SUSTAINABLE USE OF SPACE AND HERITAGE PREMISES;
- INCREASING NEED TO ENHANCE THE CAPACITY OF STATE AGENCIES:
- TO FORMULATE AND IMPLEMENT EFFECTIVE POLICIES:
- VISIONARY AND STRATEGIC PLANNING TO DEVELOP THE ART INDUSTRIES IN PENANG.



LIVEABILITY &

ENVIRONMENT AND PUBLIC SPACES

ENVIRONMENT

- → DUE TO LIMITED LAND ON PENANG ISLAND, DEVELOPMENT HAS BEEN PUSHED FURTHER UPHILL AND INTO THE SEA, RESULTING IN THE NEED FOR ECOLOGICALLY SUSTAINABLE HILLSLOPE TREATMENT AND COASTAL RECLAMATION.
- → INADEQUATE SEWAGE INFRASTRUCTURE, LOOSE CONTROL OF COMMERCIAL WASTE DISPOSAL AND PRIMITIVE CONTROL AND TREATMENT OF DOMESTIC WASTE HAVE LED TO PENANG HAVING AMONG THE POOREST-QUALITY RIVERS AND SEAS IN THE COUNTRY.
- → LOSS OF ECOLOGICAL HABITATS AND BIODIVERSITY AND LOSS OF AGRICULTURAL LAND WILL HAVE LONG-TERM IMPLICATIONS TO PENANG.

PUBLIC SPACES

TOWN & COUNTRY PLANNING DEPARTMENT (PEN. M'SIA)

6 to 7 ha

DEVELOPED COUNTRIES

4 to 12 ha PER 1,000 POPULATION STATE STRUCTURE PLAN

equals

1 ha
PER 2,500 POPULATION

CURRENT TOTAL

449.4 ha

equals to

0.29 ha PER 1,000 POPULATION

CURRENT PUBLIC SPACE SHORTFALL

= ± 1,000 ha

 $= \pm 1,300 ha$

FOR SEBERANG PERAL

STATE **GOVERNMENT MEASURES SINCE 2008**

PLANNING

- → SPEAD COUNCIL;
 → DRAFT SPECIAL AREA PLANS (SAPS) FOR GEORGE TOWN WHS, BOTANIC GARDENS & PENANG HILL:
- → INTEGRATED TRANSPORT MASTER PLAN;

TRANSPORTATION

- → SET UP FREE CAT SHUTTLE BUS SERVICE IN **GEORGE TOWN;**
- → "BEST" AND "BEST KOMTAR" PARK-AND-RIDE SERVICES;
- → PLANNED RECREATIONAL CYCLE LANES FOR ISLAND AND MAINLAND;
- → INTEGRATED TRANSPORT MASTER PLAN;
- → OFFERED RM10 MILLION TO PROVIDE FREE PEAK-HOUR BUS SERVICES THROUGHOUT THE STATE OF PENANG;
- WEEKLY GEORGE TOWN CAR-FREE ZONE.

PUBLIC SPACES

- → PENANG HILL PUBLIC SQUARE;
- → GREENING GEORGE TOWN;
- → SUBTERRANEAN PENANG INTERNATIONAL CONVENTION AND **EXHIBITION (sPICE) CENTRE, WITH UPGRADED PENANG INTERNATIONAL** SPORTS ARENA (PISA), AQUATIC CENTRE AND A PUBLIC PARK ON THE SURFACE;
- TWO SPEAKERS' SQUARES; PLANNED PRANGIN CANAL REVITALISATION AND HERITAGE SQUARE AT SIA BOEY IN GEORGE TOWN.

HOUSING

- → RM500 MILLION AFFORDABLE HOUSING
- → 15,000 AFFORDABLE HOUSING UNITS **GIVEN OC:**
- → 18,000 AFFORDABLE HOUSING UNITS PLANNED IN ALL DISTRICTS;
- → 300 UNITS CONVERTED FOR SOCIAL **RENTED HOUSING:**
- 5 ABANDONED HOUSING **DEVELOPMENTS REVIVED.**

ENVIRONMENT

- → CLEANER, GREENER PENANG INITIATIVE;
- NO-FREE PLASTIC BAG CAMPAIGN; BAN ON POLYSTYRENE FOR LICENSED FOOD OPERATIONS;
- PENANG GREEN COUNCIL:
- → NEW SOLID-WASTE MANAGEMENT
- FOOD-WASTE COLLECTION FOR BIO-FUEL AND BIO-FERTILISER; REVITALISATION OF SUNGAI PINANG &
- SUNGAI JURU.

CULTURE. HERITAGE & ARTS

- → GEORGE TOWN WORLD HERITAGE INCORPORATED;
- → GEORGE TOWN FESTIVAL;
- **GEORGE TOWN LITERARY FESTIVAL & IN-BETWEEN FESTIVAL**;
- PENANG STATE HERITAGE **ENACTMENT 2011.**

PLANING

THE VISION FOR PENANG IS ONE WHERE ITS ECONOMIC POTENTIAL AND ITS LIVEABILITY ARE DEVELOPED SIMULTANEOUSLY AND TO THEIR FULLEST EXTENT. PENANG SHOULD, IN ADDITION TO BEING A PROSPEROUS PLACE WITH OPPORTUNITIES FOR ALL, BE A PLACE WHERE THE LOCAL ENVIRONMENT IS CARED FOR AND CLEAN, A PLACE WHICH IS SAFE AND CHARACTERISED BY ACCESSIBLE AND AFFORDABLE HOUSING, EFFICIENT TRANSPORTATION SYSTEMS, SUPPORT FOR LIVING CULTURE AND HERITAGE, AND ACCESS TO THE MANY NATURAL FEATURES THAT PENANG HAS TO OFFER.

PLANNING IS LARGELY SHUT OFF FROM PUBLIC DEBATE AND INPUT.

CURRENT ZONING PRACTICES AND INCENTIVES ARE NOT PROMOTING MIXED-USE DEVELOPMENT.

LACK OF ATTENTION ON
STRENGTHENING THE RELATIONSHIP
BETWEEN THE MAINLAND AND
ISLAND.

PLANNING: 3 MAIN INITIATIVES IDENTIFIED

STRATEGIES -

Improving the Physical Planning System

- Improving institutional capacity through training and recruitment.
- Developing a community-engaged planning process.
- Integrating planning across tiers of government and between mainland and island.
- Aligning land-use and transport planning.
- Professionalising and de-politicising enforcement

Managing Growth Sustainably

INITIATIVES (TO 2025)

- Strengthening the relationship between the mainland and the island.
- Encouraging live-work-play neighbourhoods through mixed-use development.
- Influencing sustainable development through incentive-based zoning.
- Restructuring charges and fees to incentivise positive outcomes.
- Removing conflicts of interest in impact assessments.
- New Land Reclamation Strategy to ensure sustainability and public hepofit

Enhancing the Built Environment

- Adopting Universal Design codes to enhance the public realm.
- Developing an urban regeneration and renewal strategy.
- Engaging with local business communities to take ownership of urban improvements, e.g. George Town BIDS.
- Regenerating the George Town, Butterworth and Bayan Lepas waterfronts to harness the potential of the historic Penang Channel.

- Local Plans adopted in each district with community involvement.
- SPEAD Council to include civil society representatives.
- Planning applications accessible online.
- New Structure and Local Plans based on Integrated Transport Masterplan.
- Batu Kawan 'Eco City' as a model for sustainable mixed-use development.
- Planning and zoning guidelines and development fees and charges restructured.
- Impact assessments directly commissioned by local authorities.
- New enforceable design codes for buildings and streetscapes.
- Plans developed for enhanced waterfront spaces.
- New Business Improvement District Schemes e.g. in Batu Feringghi and Bayan Lepas FTZ.

TRANSPORTATION

PENANG'S CURRENT TRANSPORT SYSTEM WILL BE TRANSFORMED INTO ONE WHICH ENABLES PEOPLE TO TRAVEL EFFICIENTLY AND SAFELY AROUND THE STATE BASED ON THE PRINCIPLE OF 'MOVING PEOPLE, NOT CARS'. TRANSPORT POLICY WILL AIM TO INCREASE PERSONAL MOBILITY ACROSS A RANGE OF DIFFERENT MODES, AND RESOURCES WILL BE REBALANCED TO ADDRESS THE NEEDS OF PEDESTRIANS, CYCLISTS, THE ELDERLY AND DISABLED PUBLIC TRANSPORT USERS AS WELL AS PRIVATE VEHICLE USERS. A HOLISTICALLY-PLANNED TRANSPORT SYSTEM WILL INCREASE ECONOMIC EFFICIENCY AND PRODUCTIVITY, REDUCE NEGATIVE ENVIRONMENTAL IMPACTS AND IMPROVE THE GENERAL QUALITY OF LIFE IN PENANG.

INCREASING TRAFFIC AND CONGESTION.		LACK OF A RANGE OF TRANSPORT OPTIONS FOR PENANGITES.		LIMITS TO STATE POWER WITH REGARD TO TRANSPORT IMPROVEMENTS.			
TRANSPORT: 4 MAIN INITIATIVES IDENTIFIED							
	STRA	TEGIES -					
Rationalising Transport Governance and Management	Building New Strategic Road Links	Improving Public Transport		Improving Pedestrian and Cycling Facilities			
	INITIATIV	ES (TO 2025)					
Working with Federal authorities to create integrated transport management structures. Strengthening local enforcement capabilities with towing, clamping local traffic wardens, etc. Creating a new road safety policy.	Planning and implementing Third Link and other recommended strategic road links. Creating new road hierarchy for planning and enforcement.	Working with RapidPG to improve frequency and routing of bus service. Expanding Park & Ride systems. Planning dedicated BRT/ tram networks. Working with Federal authorities to introduce commuter rail services, improve taxis and develop high-speed ferry services.		Building safe pedestrian walkways in urban areas linked to public transpor facilities. Building dedicated recreational and commuter cycle lanes with cycle parking facilities.			
	MILESTOI	NES BY 2020 -					
 Integrated transport management structures in place. Penng Island given city status and right to appoint local traffic wardens. Reduced road fatalities. 	4 strategic road projects under construction. Third Link design work complete. Comprehensive upgrading and new road works planned on the mainland linking not just the 3 districts on the Mainland but also to the Island.	Improved hub-and bus routes and free Park & Ride extending free bus services hours. Implementation of commuter rail under the commuter ra	quencies. ded. ate peak	60% of key urban public transport routes with disabled-friendly walkways. Phase 1 of round-island and mainland cycle routes complete. Bike Share System completed.			

HOUSING

HOUSING IN PENANG WILL BE 'AFFORDABLE FOR ALL', WITH A MIXTURE OF QUALITY HOUSING OPTIONS DISTRIBUTED OVER A RANGE OF PRICE LEVELS AND ACROSS LOCATIONS SUITED TO THE NEEDS AND ASPIRATIONS OF THE LOCAL POPULATION, WHILE ALSO SUPPORTING THE NEEDS OF INCOMING MIGRANTS AND INVESTORS WHO ARE ESSENTIAL TO FUTURE ECONOMIC GROWTH. THE PENANG STATE HOUSING BOARD WILL BE THE PREMIER STATE-LEVEL DEVELOPER AND MANAGER OF AFFORDABLE HOUSING IN MALAYSIA.

INCREASING HOUSING PRICES:

PENANG'S LIMITED LAND, GROWING POPULATION AND INCREASED ECONOMIC VITALITY IS LEADING TO DEMAND FOR AFFORDABLE HOUSING OUTSTRIPPING SUPPLY.

POOR BUILDING MAINTENANCE:

AGING HOUSING STOCK COMBINED WITH WEAK INSTITUTIONAL FRAMEWORK FOR THE MAINTENANCE OF SHARED BUILDINGS.

EXISTING LOW-COST HOUSING
POLICY NOT FIT FOR PURPOSE:
PRIVATE DEVELOPERS BUILD LOWCOST HOUSES TO MINIMISE COST
RATHER THAN TO MAXIMISE UTILITY

HOUSING: 3 MAIN INITIATIVES IDENTIFIED

Improving Housing Governance, Delivery and Management

- Creating an effective State Housing Board with knowledge and expertise in affordable housing.
- Developing affordable housing policies based on evidence and international best practice.
- Developing requirement models and standards for affordable housing.
- Building public housing through open-tender processes.
- Supporting management committees with training and enforcement.
- Developing non-profit housing cooperatives to manage and maintain social rented housing.

STRATEGIES

Steering Private Sector Development

INITIATIVES (TO 2025)

- Using incentive-based zoning to encourage the development of affordable units instead of large luxury units.
- Introducing progressive development charges on a sliding scale based on Gross Development Value per square foot (GDV psf) to encourage more affordable units.
- Replacing the existing developerbuilt low-cost housing quotas with progressive financial contributions also based on GDV psf.
- Restructuring green-building incentives.
- Incentivise better quality construction and build then sell delivery systems.

Increasing Access to Housing

- Setting up housing support centres to provide advice and assistance on affordable housing options.
- Reviewing subsidised housing eligibility.
- Developing more social rented housing schemes.
- Piloting matched equity loans scheme.
- Promoting shared ownership schemes as a pathway to home ownership.
- Working with employers to improve foreign worker housing.

- State Housing Board fully staffed and functioning.
- New requirement models and standards developed.
- 19,000 quality affordable housing units built across all five districts in the State.
- Sustainable management of low cost and affordable homes.
- Progressive development charges and affordable housing contributions in place.
- Mandatory GBI certification for new medium- and high-end developments.
- Housing support centres set-up
- Improved system for allocation of subsidized units.
- **Better** foreign workers accommodation
- Shared ownership policy implemented across multiple developments.
 Social rented market facilitated by the
- State.

PUBLIC SPACE

PENANG SEEKS TO BE A PLACE WHERE THE PUBLIC REALM IS SHARED BY ALL AND IS CLEAN, GREEN AND SAFE FOR ALL TO ENJOY. PENANG WILL DEVELOP URBAN STREETSCAPES AND OPEN SPACES THAT ENCOURAGE SOCIAL VIBRANCY, THAT PROMOTE WALKING, CYCLING AND OTHER HEALTHY RECREATIONAL ACTIVITIES, AND THAT ARE ACCESSIBLE TO THE ELDERLY AND DISABLED MEMBERS OF THE COMMUNITY. PENANG'S CHILDREN AND YOUTH WILL HAVE ADEQUATE AND SAFE PLACES TO PLAY AND TO ENGAGE IN SPORT, AND PENANG HILLS, BEACHES, RIVERS AND PARKS WILL BE CONNECTED AND OPEN FOR ALL TO ENJOY.

INSUFFICIENT PUBLIC SPACE: SIGNIFICANT SHORTFALL ON BOTH ISLAND AND MAINLAND. **INADEQUATE CONDITION OF PARKS:**

POOR PARKS CONNECTIVITY: PEDESTRIAN INTER-CONNECTIVITY.

PUBIC SPACE: 3 MAIN INITIATIVES IDENTIFIED

Increasing Quantity and Quality of Public Space

- · Increasing public space requirements and incentives for affordable housing.
- · Restructuring open-space requirements and incentives to emphasise quality of open space in new developments.
- Land Reclamation Strategy to include coastal linear parks on new reclaimed land
- · Converting Jelutong landfill into a
- · Leasing/adapting under-utilised private and council land for public use.

STRATEGIES

Improving Accessibility and Connnectivity

INITIATIVES (TO 2025)

- Investing in pedestrian and cycling infrastructure to link green spaces.
- · Adopting universal design concept to improve disabled and elderly access to the entire built environment.
- · Revitalising and improving access to beaches, riverbanks and dams.
- Creating a State hiking trail network.
- Developing access schemes to open private recreational facilities to the public.

Managing and Maintaining Open Spaces

- Implementing new SAPs for Penang Hill and Botanic Gardens.
- · Sharing expertise between State departments and local authorities.
- · Improving enforcement for illegal use of public open spaces.
- · Greater State involvement in management of the Penang National Park

- · Gurney Drive coastal park reclaimed.
- . Urban parks established on brownfield sites.
- · George Town public realm improved.
- Phase 1 of recreational cycle lanes on Island and Mainland.
- Disabled-friendly pedestrian walkways linking local parks.
- State hiking trail network laid out.
- · Public access strategy adopted by
- . SAPs for Penang Hill & Botanic Gardens in place
- · Public spaces rehabilitated for public use.

ENVIRONMENT

THE VISION IS FOR PENANG TO BECOME A GREEN STATE, WHERE GREENER LIFESTYLES BECOME THE NORM, AN ECO-CITY WHERE COMMERCIAL ACTIVITIES COEXIST WITH NATURE IN A SUSTAINABLE MANNER. PENANG'S FUTURE SUSTAINABILITY REQUIRES THE PROTECTION OF ITS NATURAL ECOSYSTEMS, MAINTAINING BIOLOGICAL AND GEOLOGICAL DIVERSITY, BALANCING DEVELOPMENT IN HARMONY WITH RURAL AND NATURAL AREAS, CREATING QUALITY URBAN AND RURAL ENVIRONMENTS AND A CIVIC MINDSET WHERE PEOPLE AND BUSINESS CARE FOR THEIR **ENVIRONMENT.**

FRAGMENTED ENVIRONMENTAL MANAGEMENT: OVERSEEN BY MANY DIFFERENT GOVERNMENT

DEGRADED ENVIRONMENT: DEVELOPMENT AND COMMERCIAL ACTIVITIES NEGATIVELY AFFECTING ENVIRONMENTAL QUALITY.

INSUFFICIENT INFRASTRUCTURE: LACK OF INVESTMENT IN SEWERAGE AND WASTE MANAGEMENT INFRASTRUCTURE.

ENVIRONMENT: 3 MAIN INITIATIVES IDENTIFIED

STRATEGIES -**Tackling Waste and Pollution**

Improving Environmental Management

- · Forming a Penang State Environmental Council with civil society.
- · Developing and monitoring a holistic Environmental Management System with KPIs.
- · Protecting and restoring green reserves and limiting urban sprawl.
- · Involving the community in environmental monitoring and reporting.

INITIATIVES (TO 2025)

- collection and recycling for bio-fuel.
- recyclables in solid waste.
- pollution from commercial activities.

Facing Up to Climate Change

- · State-wide food waste and used oil
- Waste-to-energy conversion plants.
- · Implementing separation at source of
- · Building infrastructure to tackle water
- Requiring green building design and techniques for all new developments on a staged basis.
- · Greening urban areas.
- Designing a new master drainage and water-harvesting plan.
- Encouraging sustainable agricultural practices.
- Reducing water demand through education and pricing.
- Rolling out an environmental disaster control and mitigation plan.

. Penang State Environment Council in place.

- Environmental Management System with KPIs in operation.
- · Enhanced Better Penang mobile
- New State Hydraulic Survey.

- Increase recycling level to 40%.
- 50% reduction in per capita waste generation.
- · New transfer station on Island.
- · Generating energy from waste.
- · All rivers at Class III+.
- · Pilot waste to energy scheme running.
- · All new medium- and high-end developments GBI certified.
- Greening Master Plan in place.
- . 20% reduction in domestic water consumption per capita.

CULTURE, ARTS & HERITAGE

PENANG WILL BE A CULTURAL HUB IN SOUTHEAST ASIA, WITH A RICH URBAN ENVIRONMENT AND DIVERSE LIVING HERITAGE THAT IS COUPLED WITH A VIBRANT INTERNATIONAL ARTS AND CULTURAL SCENE, AND A CENTRE OF EXCELLENCE FOR HERITAGE RESEARCH AND FOR ARTS AND DESIGN. PENANG WILL WORK WITH THE LOCAL ARTS COMMUNITY TO TRAIN AND RETAIN LOCAL ARTISTIC AND CULTURAL TALENT, AND WILL DEVELOP WORLD-CLASS PERFORMANCE VENUES AND A LIBERAL CULTURAL ENVIRONMENT THAT CAN ATTRACT TOP PERFORMERS FROM AROUND THE WORLD.

UNDERDEVELOPED INSTITUTIONAL INFRASTRUCTURE: NEED TO DEVELOP CAPACITY TO COORDINATE AND PROMOTE CULTURE, HERITAGE AND ARTS.

LACK OF SUITABLE SPACES: NEED TO EXPAND THE RANGE OF SUITABLE VENUES FOR THE ARTS AND RESTORE THE BUILT HERITAGE OF PENANG

INSUFFICIENT POOL OF TALENT: NEED TO EXPAND TRAINING AND SKILLS RETENTION IN ORDER TO GROW AND DEVELOP TALENT.

CULTURE, ARTS & HERITAGE: 3 MAIN INITIATIVES IDENTIFIED

Effective Governance and Management

Establishing ArtsPenang as an coordinating and implementing body for the arts and culture.

- Constituting the new Penang Heritage Council and State Heritage Commissioner under the State Heritage Enactment.
- Establish a One-Stop Centre for arts events permits.
- ArtsPenang established with community participation.
- State Heritage institutions operating effectively.

STRATEGIES

Infrastructure, Premises and Space

INITIATIVES (TO 2025)

- Creating international-standard performance spaces for the arts.
- Returning the main State reference library to George Town and setting up heritage resource centres.
- Categorising and managing all heritage sites under the State Heritage Epactment
- Setting up a scheme to resolve problem of 'ownerless' abandoned and derelict heritage buildings.

MILESTONES BY 2020

- **Refurbished** performance venues in Dewan Sri Pinang and Town Hall.
- New State Library, resource centre and/or performance venue in Prangin Heritage Square.
- Comprehensive heritage register established.
- Abandoned buildings redevelopment scheme in operation.

Education, Training and Capacity Building

- Expanding access to arts education for school and college students.
- Developing apprenticeship schemes and artisanal training through vocational colleges.
- Encouraging the setting up of a new arts and design college.
- Working with heritage bodies and higher education sector to develop heritage management courses.
- State-wide community arts workshops for schoolchildren.
- New private vocational and arts and design colleges.
- Internationally accredited heritage management courses.



CURRENT SITUATION OF PENANG AND MALAYSIA

POVERTY AND INEQUALITY

- → NATIONWIDE, OVERALL POVERTY DROPPED FROM NEARLY 50% IN 1970 TO 5.7% IN 2004, AND THEN TO 3.8% IN 2009. IN PENANG, THE INCIDENCE OF POVERTY STOOD AT 1.2% IN 2009.
- → HARDCORE POVERTY WAS REDUCED NATIONWIDE FROM 1.2% IN 2004 TO 0.7% IN 2009. IN 2009, PENANG REDUCED THE INCIDENCE OF HARDCORE POVERTY IN THE STATE TO 0% THROUGH INCOME SUPPORT.
- → WHILE ABSOLUTE POVERTY IS IN DECLINE, INCOME DISTRIBUTION HAS WORSENED, WITH A NATIONAL GINI CO-EFFICIENT OF 0.462 IN 2011. PENANG'S GINI COEFFICIENT WAS 0.419 IN 2009.
- → NATIONAL SOCIO-ECONOMIC POLICIES HAVE REDUCED INTER-ETHNIC INEQUALITY NATIONWIDE BUT HAVE FAILED TO CURB THE WIDENING INCOME GAP WITHIN ETHNIC GROUPS.

DEMOGRAPHICS

- → 7% OF PENANG'S 1.5 MILLION POPULATION ARE AGING ADULTS, AND WHILE BIRTH RATE HAS BEEN DROPPING, PENANG HAS A SIZEABLE POPULATION OF YOUTHS AGED 0-14 AT 26% (352.975).
- → A HIGH NUMBER OF THE YOUNG ADULT POPULATION ARE AGED BETWEEN 20-29 19.2% (287,407). THESE ARE INTUITIVELY THE MOST PRODUCTIVE BUT ALSO A VULNERABLE GROUP AS THEY HAVE YET TO ATTAIN SOCIAL AND FINANCIAL STABILITY ACHIEVED IN LATE ADULTHOOD WHILE HAVING THE BURDEN OF CARING FOR THE YOUNG AND OLD ("SANDWICH" FAMILIES).

STATELESS, REFUGEES AND MIGRANT WORKERS

→ THERE IS A LARGE NUMBER OF "STATELESS"

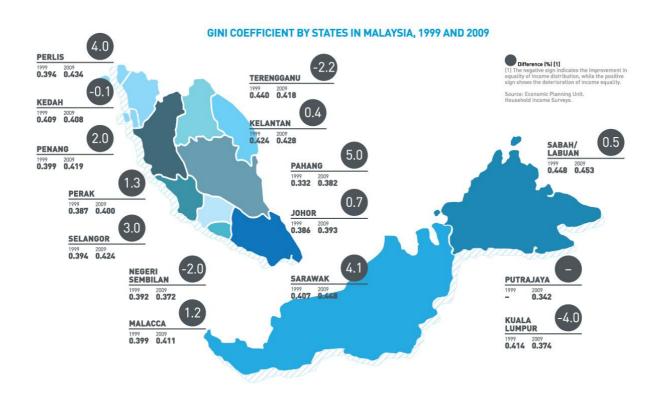
MALAYSIANS, MANY OF WHOM RESIDE IN THE

NORTHERN STATES INCLUDING PENANG. WITHOUT ANY

DOCUMENTATION, MANY WORK IN "3D" JOBS (DIRTY,

DANGEROUS AND DEMANDING). PENANG'S FOREIGN

WORKERS, UP TO 80,000 IN SOME ESTIMATES.



SOCIAL DEVELOPMENT & INCLUSION

CURRENT SITUATION OF PENANG AND MALAYSIA

EDUCATION

- → MALAYSIA IS IN THE BOTTOM 1/3 IN THE 76-COUNTRY PISA EXERCISE, WORSE THAN THAILAND.
- → 60% OF MALAYSIAN STUDENTS FAILED TO MEET THE MINIMUM BENCHMARK IN MATHEMATICS AND SCIENCE.
- → IN THE TIMSS STUDY, MALAYSIA'S PERFORMANCE HAS SLIPPED TO BELOW THE INTERNATIONAL AVERAGE IN BOTH MATHEMATICS AND SCIENCE.
- → NATIONALLY, 100,000 POST-SPM STUDENTS ARE ENTERING THE WORKFORCE WITH NO MARKETABLE SKILLS AND UNDER-EMPLOYMENT OF FRESH LOCAL GRADUATES IS INCREASING.
- → 1 IN 5 PRIMARY SCHOOL STUDENTS DROP OUT BEFORE SECONDARY SCHOOLS AND THE DROPPING-OUT PROCESS CONTINUES IN SECONDARY SCHOOLS.
- → AT THE TERTIARY LEVEL, INCREASING NUMBERS OF GRADUATES ARE UNEMPLOYED OR IN LOW-PAID JOBS DUE IN PART TO ACADEMIC TRAINING WHICH DOES NOT MEET MARKET REQUIREMENTS.
- → AS THE REGULATION OF EDUCATION IS ENTIRELY A FEDERAL MATTER, PENANG IS PAYING THE PRICE FOR NATIONAL FAILURES IN EDUCATION.

Trends in International Mathematics and Science Study (TIMSS) 2011 saw Malaysia ranking drop.

Spots in Maths

Spots in Science



From 20th in 2007 to 26th in 2011 From 21th 2007 to 32nd in 2011

What is TIMSS?

A global assessment of maths and science of Standard Four and Form Two students.

Only secondary school students participated in Malaysia.

Students in 42 countries were tested for Mathematics and 45 countries for Science. [1]

The numbers of drop-outs, SPM leavers and SKM holders at National Level

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30,000 Basic education dropouts

> Basic education dropouts, i.e. students leaving school prior to taking SPM.

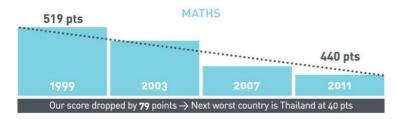
100,000 SPM leavers directly entering workforce

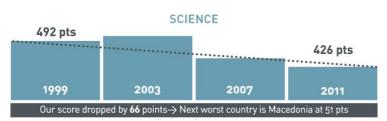
> Unskilled workers entering workforce without further qualifications, out of which 40k have no SPM credits.

40,000 Higher level SKM 3 and 4

> SKM 1 and 2 holders who do not currently go on to pursue SKM 3 and 4.

Source: MOHR 2010





Malaysia recorded the biggest drop in test scores among all countries for both Math and Science between 1999 to 2011.

Malaysia and Jordan are the only 2 countries that suffered from **decline** in scores in **all** areas for **Math and Science**.

Source: REFSA

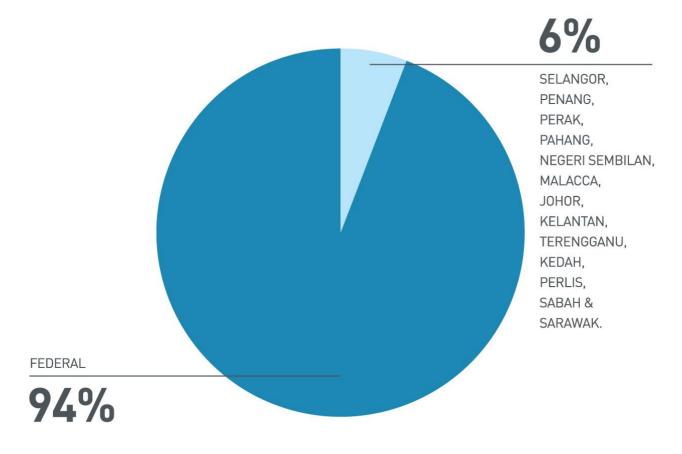
SOCIAL DEVELOPMENT & INCLUSION

CURRENT SITUATION OF PENANG AND MALAYSIA

GOVERNANCE

- → THE FEDERAL SYSTEM IN MALAYSIA IS HEAVILY OVER-CENTRALISED IN TERMS OF BOTH POWER AND RESOURCES, WITH THE COMBINED BUDGETS OF ALL 13 STATES EQUIVALENT TO ONLY 6% OF THE FEDERAL BUDGET. OVER-CENTRALISATION IN FORMERLY LOCAL AREAS OF RESPONSIBILITY SUCH AS SEWERAGE AND URBAN PUBLIC TRANSPORT HAS PROVEN TO BE INEFFICIENT, UNRESPONSIVE TO LOCAL CONCERNS AND SUPPRESSIVE OF LOCAL INITIATIVES.
- → LOCAL DEMOCRACY IN MALAYSIA HAS BEEN SUPPRESSED SINCE THE 1960S, AND THIS HAS GENERALLY RESULTED IN POOR GOVERNANCE BY UNDEMOCRATIC. UNACCOUNTABLE AND UNRESPONSIVE LOCAL GOVERNMENTS.
- → WIDESPREAD CORRUPTION AND CRONYISM IN MALAYSIA (WITH ILLICIT OUTFLOWS ESTIMATED AT RM871 BILLION OVER 2001-10 AND TREASURY LOSSES ESTIMATED AT RM26 BILLION PER ANNUM IN 2012) HAVE BEEN THE BIGGEST ENEMY OF DEMOCRATIC GOVERNMENT, EMPOWERING THE FEW AT THE EXPENSE OF THE MANY AND ELEVATING PRIVATE CONCERNS OVER THE PUBLIC INTEREST.

FEDERAL & STATE GOVERNMENT REVENUES, 2013



STATE **GOVERNMENT MEASURES SINCE 2008**

SOCIAL ASSISTANCE PROGRAMMES

- → ABOLISHING HARDCORE POVERTY THROUGH TOP-UP SUPPORT FOR HARDCORE POOR HOUSEHOLDS WITH MONTHLY CASH AID:
- → APPRECIATION FOR SENIOR CITIZENS (RM100/YEAR);
- → ONE-OFF BEREAVEMENT SUPPORT FOR FAMILIES OF SENIOR CITIZENS (RM1,000);
- → SUPPORT FOR DISABLED PERSONS (RM100/YEAR);
- APPRECIATION OF SINGLE MOTHERS (RM100/YEAR);
- "GOLDEN CHILD" PROGRAMME (RM200)-
- BUILT FIRST C.A.T. DIALYSIS CENTRES.

EDUCATION SUPPORT

- → GOLDEN STUDENT ASSISTANCE PROGRAMME (RM100/YEAR);
- → ONE-OFF ASSISTANCE FOR IPTA STUDENTS (RM1,000);
- → ANNUAL GRANTS TO INDEPENDENT AND PARTIALLY-AIDED SCHOOLS (RM12 MILLION/YEAR);
- → PENANG EDUCATION COUNCIL,
 - ENHANCING PRESCHOOL EDUCATION PROGRAMMES:
 - TERTIARY COMMITTEE, PROFESSIONAL DEVELOPMENT TRAINING WORKSHOPS;
 - LANGUAGE ENRICHMENT PROGRAMMES;
 - HELPLINE FOR STUDENTS;
 - "CHILDREN WITH SPECIAL NEEDS" PROGRAMME;
 - ARTS EDUCATION.

- DEMOCRACY AND GOOD GOVERNANCE

 → OPEN, COMPETITIVE TENDERS
 THROUGH ONLINE E-PROCUREMENT;

 → RULING-PARTY LEGISLATORS BARRED
 FROM APPLYING FOR LAND;

 → APPOINTMENT OF INDEPENDENT,
 PROFESSIONAL STATE APPEALS
- BOARD. FREEDOM OF INFORMATION

- FULL DISCLOSURE OF GOVERNMENT

GENDER-SENSITIZED INITIATIVES

- → GENDER-RESPONSIVE BUDGETING AT LOCAL AUTHORITY LEVEL:
- → ESTABLISHMENT OF PENANG WOMEN'S **DEVELOPMENT CORPORATION AS A NEW AGENCY TO ENHANCE WOMEN'S** RIGHTS AND GENDER EQUALITY:
- → WOMEN'S SERVICE CENTRE;
- **→** TWO STATE-FUNDED CHILDCARE CENTRES.
- → BREAST-FEEDING FACILITIES IN **GOVERNMENT OFFICES AND IN NEW** PRIVATE DEVELOPMENTS.

COMBATTING POVERTY, INEQUALITY AND DISCRIMINATION

PENANG WILL BE A MODEL STATE IN MALAYSIA WHICH STRIVES FOR BALANCED DEVELOPMENT BEYOND THE MERE GROWTH OF MATERIAL WEALTH, AND EQUITABLE SHARING OF THAT DEVELOPMENT. THE STATE WILL COMBAT POVERTY AND INEQUALITY THROUGH TARGETED INITIATIVES THAT LEAVE NO ROOM FOR RACISM, CORRUPTION AND NEPOTISM. PENANG WILL ALSO PROMOTE GENDER EQUALITY AND INCLUSION OF SENIOR CITIZENS AND THE DISABLED. THE STATE WILL BUILD A SENSE OF BELONGING AND SOLIDARITY OF ALL PENANGITES, TO LEAVE NO ROOM FOR UNFAIR DISCRIMINATION IN BOTH PUBLIC AND PRIVATE SECTORS.

GROWING INCOME GAP: UNEQUITABLE DEVELOPMENT CONNECTED HAVE LEFT THE MAJORITY OF MALAYSIANS STRUGGLING TO MAKE ENDS MEET.

FAILURE OF RACE-BASED AFFIRMATIVE ACTION:

EXISTING SOCIO-ECONOMIC POLICIES HAVE FAILED TO UPLIFT THE BUMIPUTERA POOR DUE TO CORRUPTION AND CRONYISM, AND HAVE FAILED TO ADDRESS OTHER SOURCES OF DISCRIMINATION SUCH AS GENDER AND DISABILITIES.

COMBATTING POVERTY, INEQUALITY AND DISCRIMINATION

STRATEGIES **Penang Social Inclusion Support for Poor** Support programmes to Support for the disabled and Equal Opportunities improve quality of life for Committee (SAKSAMA) senior citizens INITIATIVES (TO 2025) -· Committee to present • Top-up support to ensure · Continuing and expanding · Providing disabledannual social inclusion minimum household income existing programmes to friendly infrastructure to of RM 830 (regularly increase accessibility of alleviate poverty amongst reports. the disabled in all public · Policy proposals to reviewed) senior citizens · Expanding micro-credit • Free Rapid Penang cards empower those excluded spaces. due to poverty, gender, schemes to help the poor to ensure better mobility ethnicity, etc. lift themselves out of and fuller participation of · Equal opportunity and senior citizens in the larger poverty. gender equality in Statesociety. owned agencies and · Funding and supporting contractors social activities for senior citizens **MILESTONES BY 2020** SAKSAMA established. • Eradicating Poverty - 0% • Free Rapid Penang cards More accessible . State-level policies to household income below for senior citizens. streetscape and public promote social inclusion national poverty line income. Additional social infrastructure. and gender equality. • Expanding micro-credit programmes for senior Free Rapid Penang cards Equal Opportunity schemes. citizens through civilfor the disabled. & Anti-Sexual society-led community **Harassment policies** centres for State agencies and contractors.

FAMILY AND COMMUNITY SUPPORT

PENANG WILL BE A JUST AND NURTURING SOCIETY WHERE NO-ONE WILL BE LEFT BEHIND BECAUSE OF DISADVANTAGES BY BIRTH OR GROUP MEMBERSHIP, AND WHERE INDIVIDUALS AND ESPECIALLY THE YOUNG CAN FLOURISH WITH THE SUPPORT OF FAMILY AND COMMUNITY. PENANG WILL EMPOWER AND ASSIST FAMILIES AND COMMUNITIES TO BE THE FOUNDATIONS OF A HEALTHY, STABLE AND COHESIVE SOCIETY.

SURGING COST OF DOMESTIC HELP AND CHILDCARE: DIFFICULTY IN ACCESSING AFFORDABLE GOOD QUALITY DAYCARE.

LACK OF PREVENTIVE HEAL

HEALTHCARE: NON-COMMUNICABLE DISEASES SUCH AS OBESITY, HYPERTENSION, CARDIO-VASCULAR DISEASES AND DIABETES RISING AT AN ALARMING RATE NATIONWIDE.

STATELESS: HIGH NUMBER OF PEOPLE ON MAINLAND PENANG WITHOUT IDENTITY CARDS AND HIGH NUMBER OF REFUGEES.

FAMILY AND COMMUNITY EMPOWERMENT: 3 MAIN INITIATIVES IDENTIFIED

STRATEGIES-

Family, Youth & Community Empowerment

- Establishing a unit under PWDC to protect children's rights and to provide support and counselling in cases of child abuse and neglect, as well as to help formulate child welfare policies for the State.
- Expanding access to childcare and care for the elderly by facilitating start-ups and providing grants and fee assistance for the poor.
- Establishing a network of community centres for youth, community and senior citizens' programmes.
- Instilling ethics and morality among youths through civic and religious education.
- Improving health and social interaction through participatory sport.
- New community childcare centres.
 State-wide network of civil-society-led community centres developed for

activities.

youth, community and senior citizens'

Healthcare policy

INITIATIVES (TO 2025)

- Setting up mobile community clinics in urban and rural areas.
- Establishing a State health education programme on preventive care.
 Supporting the expansion and
- Supporting the expansion and establishment of more affordable nonprofit hospitals and hospices.
- Expanding free State-funded dialysis centres.

Foreign workers, refugees and "Stateless" Malaysians

- Setting up a foreign workers' taskforce to work with employers and foreign workers, with one-stop centres for complaints, counselling and legal advice.
- Establishing district registration and assistance units for "stateless" Malaysians.
- Promoting an ethical employment policy for employers of foreign labour.

- Smoke free public buildings and enclosed public venues.
- Additional CAT dialysis centres all five districts of the state.
- New task-force and service centres for migrant workers.
- 5 district registration and assistance units for "stateless" Malaysians.

ECONOMIC EMPOWERMENT THROUGH EDUCATION

PENANG WILL BE A LEARNING SOCIETY WHERE CITIZENS WILL ACQUIRE KNOWLEDGE THROUGHOUT THEIR LIVES TO LIVE AND WORK BETTER. EQUITABLE ACCESS TO BOTH ACADEMIC AND VOCATIONAL EDUCATION WILL ALLOW ALL INDIVIDUALS TO FLOURISH AND SOCIETY TO PROSPER. PENANG WILL USE EDUCATION AS A MEANS TO ELEVATE THE MARGINALISED AND DISADVANTAGED FROM POVERTY, FULLY UTILISING ITS STRENGTHS OF MULTICULTURALISM AND MULTILINGUALISM.

HIGH COST OF SETTING UP AND LACK OF INCLUSIVE PRESCHOOLS: HIGH COST OF CONVERSION RATES WITH MOST SCHOOLS ONLY CATERING FOR MAINSTREAM CHILDREN. LACK OF ALTERNATIVE EDUCATION PATHWAYS: ONLY 2 GOVERNMENT VOCATIONAL SCHOOLS IN PENANG. LACK OF UPSKILLING PROGRAMME FOR CURRENT LABOUR FORCE: HIGH NUMBER OF WORKERS WITH NO SKILLS AND UNABLE TO DIVERSIFY THEIR WORK OPPORTUNITIES.

ECONOMIC EMPOWERMENT THROUGH EDUCATION: 3 MAIN INITIATIVES IDENTIFIED

STRATEGIES

Enhancing and Scaling Up Preschool Education

Intervention Programmes for Primary & Secondary School Students

nts

- One-Stop Centre for establishing preschools and childcare centres at each local council.
- Public Private Partnership in establishing Preschool Education integrating mainstream children and those with special needs.
- Committee for preschools and childcare.
- Lower conversion rates for establishing of preschools.

 Creative Learning Programmes for primary and secondary students in reading, writing, maths, science and English.

INITIATIVES (TO 2025)

- Providing alternative educational pathways through private (including international) vocational education.
- **MILESTONES BY 2020**
- 5 district Penang Learning Centres with Creative Learning Programmes focussing on band 5 & 6 schools.
- Setting up an apprenticeship programme via a public-private partnership.

Lifelong Learning and

Upskilling Programmes

- Expanding retraining and upskilling programmes through Penang Skills Development Centre (PSDC) and professional institutions.
- Apprenticeship programme up and running.
- Expanding retraining and upskilling programmes through PSDC.



Penang Institute is the public policy think tank of the state government of Penang, established in 1997 under a different name, has now rebranded to better reflect the aspirations of the state to transform Penang into an international and intelligent city. With the tagline, "Making Ideas Work", Penang Institute seeks to spur bold thinking in the key areas of economics, socio-politics and sustainable development.

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