In July 2012, Iskandar Malaysia was chosen as a pilot region for the smart city model for Malaysia, as well as for the world, at the first intersession meeting of the Global Science and Innovation Advisory Council (GSIAC) in San Jose, California. Within four years of declaring Iskandar Malaysia as pilot for all Smart City projects in Malaysia, IRDA received enthusiastic feedback from the parties interested to realise this goal together.

Iskandar Malaysia made further inroads in realising our smart city plans consistent with the government’s acknowledgement of the need for smart city developments that focus on strengthening infrastructure to support future growth and quality of life as contained in the 11th Malaysia Plan 2016-2020.

Iskandar Malaysia’s definition of a Smart City is how we focus, think and implement our plans towards achieving the Iskandar Malaysia vision in 2025. It is a city that performs well focused on 6 areas: the economy, governance, environment, mobility, people and living quality. The Iskandar Malaysia Smart City framework aims to transform the Rakyat’s quality of life and accelerate the economy through a sustainable economic and technological ecosystem towards smart, connected and inclusive communities.

I am delighted to share that 56% out of the 80 projects from the 35 identified programmes under Smart City Iskandar Malaysia which had been declared since its launching until December 2016 are completed.

We will continue to ensure that the economic corridor’s development is carried out strategically to transform it into a Smart City as guided by our Comprehensive Development Plan ii 2014-2025 (CDPII).

We are also proud to announce the establishment of the Futuristic Iskandar Malaysia Advisory Council (FIMAC). The objective of FIMAC is to bring together all relevant and key stakeholders related to futuristic initiatives within Iskandar Malaysia.

This is also the platform for all relevant parties to share and exchange ideas as well as be part of the team that will shape the future of Iskandar Malaysia within the context of technology and innovation, in a cohesive and holistic manner.

For a Smart City to work, it requires the combined efforts of the public and private sectors. This Smart City booklet is published to ensure all the stakeholders are kept abreast with the development of Iskandar Malaysia and its Smart City agenda.

I urge everyone to support these initiatives which would contribute to the overall success of this Smart City. It is a shared responsibility which lies on our shoulders. Let us all work together to promote Iskandar Malaysia and its potential, as the first Smart Metropolis of Asia, to the world.

DATUK ISMAIL BIN IBRAHIM
Chief Executive of Iskandar Regional Development Authority
ISKANDAR MALAYSIA

ISKANDAR MALAYSIA IS MALAYSIA’S ECONOMIC GROWTH CORRIDOR COVERING A TOTAL AREA OF 2,217 SQ KM (12% OF JOHOR STATE)

ABOUT ISKANDAR MALAYSIA

Launched by the Government in November 2006, Iskandar Malaysia is envisaged to become a “Strong and Sustainable Metropolis of International Standing” set to spur economic developments that actuate Malaysia’s global potential. Iskandar Malaysia is centrally located within South East Asia’s new economic zone and a short eight-hour flight radius from Asia’s burgeoning growth centres such as Bangalore, Hong Kong, Seoul, Shanghai, Singapore, Taipei and Tokyo.

Besides the strategic location and space for business expansion and quality living, Iskandar Malaysia has a package of good fundamentals and strengths such as existing infrastructure, cultural familiarity, friendly policies and an ease-of-doing business environment based on global best practices. Each of Iskandar Malaysia’s five flagship zones features signature developments that form its catalytic drivers with development in each zone progressing according to, and in some areas, ahead of schedule.

Iskandar Regional Development Authority (IRDA), the regulatory authority mandated by an Act of Parliament to plan, promote and facilitate the emergence of the economic zone, has been entrusted to ensure that the community will not be marginalised but instead, will benefit from its development and become active participants of the growth and value-creation activities of Iskandar Malaysia. Iskandar Malaysia is projected to create 817,500 employment opportunities by the time the economic corridor reaches maturity in 2025. Since its inception, more than 700,000 jobs have been created.

Iskandar Malaysia in the context of Regional Corridors

Iskandar Malaysia Covers 5 Local Planning Authorities.

- Johor Bahru City Council (MBJB)
- Johor Bahru Tengah Municipal Council (MPJBT)
- Pasir Gudang Municipal Council (MPGP)
- Kulai Municipal Council (MPKu)
- Pontian District Council (MDP)

Economic Indicators Targets, Iskandar Malaysia, 2025

<table>
<thead>
<tr>
<th>Economic Indicators</th>
<th>Targets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated GDP (At a constant 2005 price)</td>
<td>RM 34.3 Bi</td>
</tr>
<tr>
<td>GDP Per Capita</td>
<td>RM 25,025</td>
</tr>
<tr>
<td>Growth Rate</td>
<td>4.1% (2005-2010)</td>
</tr>
<tr>
<td>Population</td>
<td>1.4 Mi</td>
</tr>
<tr>
<td>Employment</td>
<td>0.6 Mi</td>
</tr>
<tr>
<td>Investment Achieved</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Smart City Iskandar Malaysia was endorsed by the Prime Minister of Malaysia on 1 November 2012, at the 2nd Inter-session Global Science and Innovation Advisory Council (GSIAC) meeting in Kuala Lumpur with a mandate for Iskandar Malaysia to become the 1st Smart City in Malaysia.

Smart City Iskandar Malaysia is an added value enabler and an initiative that aims to provide ease of doing business as well as improve living quality in Iskandar Malaysia. Smart City Iskandar Malaysia is a programme that serves as a tool to accelerate Iskandar Malaysia towards achieving its vision.

Focusing on 3 areas namely Economy, Environment and Social and promoting 6 dimensions namely Smart Economy, Smart Governance, Smart Environment, Smart Mobility, Smart People and Smart Living. The 6 dimensions serve to guide Iskandar Malaysia on its journey towards becoming a Smart City. The projects listed under Smart City Iskandar Malaysia were identified from Iskandar Malaysia’s blueprints.

The unique feature about Smart City Iskandar Malaysia is the ‘smart’ way of doing things. This includes how we focus, think and implement it.

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>DESCRIPTION</th>
<th>UNIQUE APPROACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMART ECONOMY</td>
<td>Adopts innovative economic growth and value creation activities towards making Iskandar Malaysia a high income region.</td>
<td>Grow the economy through smart investment</td>
</tr>
<tr>
<td>SMART GOVERNANCE</td>
<td>Promotes efficiency of public and social services and encourages public participation towards becoming a transparent government.</td>
<td>Smart Governance that focuses on needs of the Rakyat</td>
</tr>
<tr>
<td>SMART ENVIRONMENT</td>
<td>Positioning Iskandar Malaysia as a green and low carbon region in line with its aim to achieve sustainable development by improving the natural environmental quality.</td>
<td>Manage environment through smart collaboration</td>
</tr>
<tr>
<td>SMART MOBILITY</td>
<td>Aims to prepare an efficient road accessibility as well as public transportation and improvement of ICT infrastructure in Iskandar Malaysia.</td>
<td>Provide smart mobility and connectivity</td>
</tr>
<tr>
<td>SMART PEOPLE</td>
<td>Prepare the Rakyat towards becoming smart people with 1st class mindset.</td>
<td>Produce smart people and mindset</td>
</tr>
<tr>
<td>SMART LIVING</td>
<td>Encompasses various focus areas that lead towards improvement of the community lifestyle in Iskandar Malaysia.</td>
<td>Provide smart living quality</td>
</tr>
</tbody>
</table>
**01 SMARTXP BY GREENLAND**

The 700 sq metre Experiential Centre also known as SmartXP is a collaboration between Iskandar Regional Development Authority (IRDA) and Greenland Tebrau Sdn Bhd. SmartXP is located at Greenland Tebrau Bay and is open to the public since end of 2016. This centre provides the experience of a futuristic Smart City through Smart Technologies by utilising touch screen displays, virtual reality, hologram model to motion sensory stimulation, and interactive games.

SmartXP helps to promote Smart City Iskandar Malaysia framework, characters and components by preparing showcase ‘Show and Tell’ for other stakeholders to understand and implement Smart City in their respective development.

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**02 HEALTHCARE INTEGRATED HUB - MENARA LANDMARK MEDICAL SUITE**

Medical tourism is one of the promoted economic activity in Iskandar Malaysia. Menara Landmark Medical Suites showcases the first of its kind integrated Medical Services Facilities in Iskandar Malaysia. Designed to provide superior consulting spaces to clinical and allied health professionals, a concept for medical practitioners and specialists to come together and practice under one roof.

The building is designed with wide and spacious entrance, convenient drive-way/drop off point, ambulance parking bay, disable-friendly, clean and comfortable walk-way. The Doubletree Hotel by Hilton is integrated with the Medical Suites for convenience of medical travelers.

Services available are:

1. Systemic Dialysis Centre
2. Dr A. Radzi’s Oncology Clinic & Daycare Centre
3. Beverly Wilshire Medical Centre
4. TMC Fertility Centre
5. Diamagnetic Physio Centre
6. Amim Fertility Centre
7. Amim Dental Surgery
8. Gribbles Pathology Sdn Bhd

For more info, please scan the QR code.

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**03 MaGICX (MEDIA AND GAME INNOVATION CENTRE OF EXCELLENCE)**

Launched in December 2016, MaGICX (Media and Game Innovation Centre of Excellence), the anchor for the games gamification ecosystem is geared to be the nucleus of the Iskandar Malaysia Innovation Valley, complementing Pinewood Iskandar Malaysia Studios (PIMS) and fostering growth of the creative industry in Iskandar Malaysia.

Established to provide the necessary support in terms of technical expertise, research, business development, publishing, marketing and training for industry players / developers to produce commercially viable products, MaGICX intends to create an environment that will contribute towards talent development, industry promotion, knowledge-sharing and international collaboration. Currently focusing on Virtual / Augmented Realities and Hologram, MaGICX’s interests lie in Islamic Media, Medicine, Education, Oil and Gas, Culture and Heritage, as well as Interactive Technology.
Telekom Malaysia Berhad (TM), via Inneousa Sdn Bhd, a tripartite joint venture between TM, UEM Sunrise Bhd (UEM Sunrise) and Iskandar Investment Berhad (IIB) launched its Integrated Operations Centre (IOC) in Iskandar Puteri, Johor on 1 July 2016.

The IOC, the first ever in Malaysia, will serve as a centralised command centre for Internet of Things (IoT) operations of various smart city services. This will enable Inneousa to provide a single nationwide monitoring dashboard to coordinate operations of smart services involving physical devices and sensors, vehicles, buildings as well as incidents and events.

TM Group Chief Executive Officer Tan Sri Zamzamzairani Mohd Isa, commented about the IOC set-up by saying, "The aim of the IOC is to manage the operations of smart services nationwide such as smart ICT, safety and security, smart mobility, city-wide services, energy and facilities management, digital signages as well as citizen portal. The efficiency of the IOC relies on the information and communications by a large pool of sensor networks."

This means optimising a city’s operations to make it a better place to live, work and play for its community as outlined in our promise, ‘Life Made Easier’.

A smart city operates via people, embedded electronics, software, sensors, and network connectivity that enable the data to be collected, exchanged and analysed into valuable and timely information at the IOC. The IOC in turn, provides 24/7 support throughout the year via Artificial Intelligence (AI) based proactive monitoring with services such as situational awareness, smart services analytics, emergency response as well as alarm management. In Iskandar Puteri, these smart services are for the various property development projects owned by UEM Sunrise and IIB such as Puteri Harbour, East Ledang, Ledang Heights, Gerbang Nusajaya, Southern Industrial and Logistics Clusters (SiLiC), and EduCity.

Green Economy Guideline (GEG) manual serves as a guide on how to grow green in all sectors promoted within Iskandar Malaysia. The manual is drawn up with the help of government ministries and agencies, business associations, local bodies, international agencies and IRIDA business teams to help businesses and industries to adopt and inculcate environmentally sustainable economic behaviour that will lead to the creation of a prosperous, resilient, robust and globally competitive green economy in Iskandar Malaysia. The key focus areas identified in the Green Economy Guidelines are energy efficiency, renewable energy, waste management, water management, green procurement, human capital development and green accounting.

The Low Carbon Society (LCS) Action Plan for Johor Bahru, Johor Bahru Tengah, Pasir Gudang, Kulai and Pontian were formulated to further accelerate the realisation of Low Carbon Society (LCS) in Iskandar Malaysia. These Local Authority-Level LCS Action Plans were developed to ensure effective implementation of the Low Carbon Society Blueprint for Iskandar Malaysia 2025 (LCSPBIPM 2025). Each LCS Action Plan recognises and responds to the distinctive economic, social and environmental characteristics, as well as strengths, potentials and issues unique to each Local Authority area. LCS programmes in this LCS Action Plan are structured following the 12 LCS Actions in the LCSPBIPM 2025.
Sungai Segget River Revitalisation project involves the development of a Centralised Sewerage Treatment Plant (CSTP) and a Flood Mitigation System for Sungai Segget. The CSTP integrates two (2) world class infrastructure systems comprising of Sequencing Batch Reactor (SBR) and SCADA monitoring system to achieve Class II-B water quality.

Cohesive Mobility Solution (COMOS) is an urban mobility solution that is Smart, Convenient and Green. This initiative is driven through a Public-Private Partnership (PPP) involving a few key stakeholders namely Ministry of International Trade and Industry (MITI) and Ministry of Energy, Green Technology and Water (KeTTHA). COMOS has 3 core business activities namely EV Car Sharing, EV EcoRide and EV Corporate Branding and Leasing. This initiative is not only ‘0’ pollutant but also convenient and its users.

Installation of electric charging stations in Iskandar Malaysia has been part of promoting green transportation in this economic region. GreenTech Malaysia has developed ‘ChargEv’ network, a uniform, corporate identity for EV charging stations in Malaysia. Having its target in 2016 to install 300 EV charging stations in Malaysia, GreenTech Malaysia has successfully installed the charging stations at least 12 locations in Iskandar Malaysia as of December 2016.

IRDA’s role in this project is to identify the target locations for ‘ChargEV’ points and engage with identified building owners to promote the comprehensive electrical charging infrastructure and ecosystem. More charging stations are expected to be installed especially along the North-South Expressway.
WIRELESS IN ISKANDAR MALAYSIA

As of 2009, Iskandar Malaysia has 104 hotspots provided by the private sector. In 2016, the Johor State Government has launch a free WiFi service known as Johor Free WiFi as part of the state’s Suara Rakyat Johor initiative based on feedback from the Rakyat who wants the telecommunication services to improve in the state. This project has been installed and maintained in all 10 districts with a total of 135 hotspots, where Iskandar Malaysia enjoys 47 hotspots.

In 2017, the Johor State Government has announced that there will be an additional 70 Johor Free WiFi hotspots will be installed in various locations within the state.

<table>
<thead>
<tr>
<th>No</th>
<th>Location</th>
<th>Free WiFi Hotspots</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>JOHOR BAHRU</td>
<td>29</td>
</tr>
<tr>
<td>2</td>
<td>BATU PAHAT</td>
<td>17</td>
</tr>
<tr>
<td>3</td>
<td>KOTA TINGGI</td>
<td>13</td>
</tr>
<tr>
<td>4</td>
<td>KLUANG</td>
<td>10</td>
</tr>
<tr>
<td>5</td>
<td>PONTIAN</td>
<td>9</td>
</tr>
<tr>
<td>6</td>
<td>SEGamat</td>
<td>9</td>
</tr>
<tr>
<td>7</td>
<td>KULAI</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>MERSING</td>
<td>7</td>
</tr>
<tr>
<td>9</td>
<td>MUJAR</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>LEDANG</td>
<td>4</td>
</tr>
</tbody>
</table>

ICT INFRASTRUCTURE IMPROVEMENT

The private sector has played a major role in upgrading the ICT infrastructure across the Iskandar Malaysia region. Requirements by Malaysian Communications and Multimedia Commission (MCMC) to use Fiber connectivity as the backbone for all LTE supported mobile telco base stations has ensured that most locations are Fiber ready.

Additionally, projects such as the Sedenak Iskandar Data Hub (SIDH) as well as the TM-VADS Data Centre in Nusajaya, ensure the ICT infrastructure needs of the Investors, and tech enabled entrepreneurs are met locally.

ISKANDAR MALAYSIA NON-MOTORISED TRANSPORT (NMT) GUIDELINE

The purpose of the Iskandar Malaysia NMT study is to establish goals, objectives, and benchmarks that are into improving safety, expanding mobility options, and increasing the number of trips taken by walking and cycling within Iskandar Malaysia. The IM NMT study is a strategy for developing the necessary infrastructure and policy in a community to create an environment where walking and cycling are safe, practical, enjoyable, and viable transportation choices for citizens.

Iskandar Malaysia NMT study was accomplished with a comprehensive inventory and analysis of existing bicycle and pedestrian facilities in Iskandar Malaysia; complete with a prioritised list. The priorities listed in this study are based on predefined criteria and are for illustrative purposes only. This is a key set of data that is necessary, but not wholly sufficient for implementation. The recommended projects are intended to be a guide for IRDA and Local Authorities (PBT) and other stakeholders.

- Formulates and proposes the new specific NMT policy.
- Identifies the existing NMT route and recommends the NMT route to be developed and retrofitted without compromising the safety and environmental (green) aspects.
- Provides the rules and regulation aspect for the NMT users.
- Recommends guidelines and standards for relevant authorities to refer to in planning, designing, developing and retrofitting the NMT infrastructure and facilities for new and existing development.
- Outlines the basic parameters of the five (5) NMT pilot projects identified in a Focused Group Discussion (FGD) attended by key agencies in Iskandar Malaysia. This Part will establish the starting point of the projects and provide the analytical approach in determining the feasibility of the projects.
01 SMART HEALTHY CITY & COMMUNITIES PROGRAMME

Smart Healthy City & Communities programme is aimed to enhance the people’s quality of life, and to achieve a sustainable economic and technological ecosystem that would ultimately create smart, connected and inclusive communities.

Diversified choices in health management for better lifestyle and varied recreational facilities focusing on family-oriented activities help create smart, urban communities that will yield an improved quality of life.

Framework

HOW IT BENEFITS YOU?

1. A holistic approach to healthcare, creating an attractive harmonious and healing environment.
2. Offers flexibility in healthcare services that allows for the changing needs and technology, delivering benefits to all segments.
3. Better access to healthcare practitioners resulting in efficiency, and improved reliability and patient health.

Receiver of Smart Healthy City & Communities Township Recognition

1. Taman Seri Austin - 1st Smart Healthy City Township
   Date: 15th February 2014

2. Bandar Seri Alam - 1st Cycle Connected Township
   Date: 18th May 2014

3. Rumah Iskandar Malaysia - Generasi Sinar & Rakyat Township
   Date: 23rd May 2015

4. Hutan Bandar MPJUB - Mutsara Rini Smart Healthy City Township
   Date: 5th December 2015

5. Medini Iskandar - 1st Smart Healthy City & Communities in Iskandar Puteri
   Date: 30th September 2017

02 ISKANDAR MALAYSIA TOURISM MOBILE APPS

Discover unique attractions, what to see, and where to go in Iskandar Malaysia. Some useful features that are available in the apps are:

1. Points of Interest
   Information on historical places, theme parks and various attractions and shopping areas in Iskandar Malaysia.

2. Makan Places
   Share the location and information on the flavours of Iskandar Malaysia that include traditional, modern & fusion food outlets.

3. Event Directory
   Details on events organised by IRDA or Iskandar Malaysia partners.

4. Useful Info
   Share the information on nearest petrol stations, hospitals, banks and some others useful travelling amenities. It will locate the nearest location for you, based on your current location.

Main Menu
Points of Interest
Makan Places
Events
Useful Info

03 FUN & HEALTHY LIFESTYLE

This programme is a smart partnership between the government agencies, private sector as well as NGOs. Various events and happenings were organised to encourage healthy lifestyle among the citizens.

- JB CAR FREE DAY
  Organised monthly by Johor Bahru City Council (MBJB)

- WORLD HEART DAY
  Collaboration between Regency Specialist Hospital, Seri Alam & Happy Riders on 3rd October 2015

- Smart Partnership with Seri Alam Properties and organised by Southern Coast Ltd. On 2nd - 3rd May 2015

- 300 riders during the Fun Break Ride at Laman Sri Lamong 12 Jun 2015. 8th Birthday celebration for June babies sponsored by Johor Bahru City Council (MBJB)

- Night Ride at Seri Austin Farewell to Datin Bibi & Certificate of Commendations to Junior Riders by Datin Seri Mokhtar Ketas of Johor
Sedenak Iskandar Data Hub (SIDH), is a specially created 700-acre data centre space in Iskandar Malaysia. Building on the encouraging performance results of the industry, the SIDH is set to meet the region’s rising demand for data centre space and services. The SIDH is equipped with robust, state-of-the-art infrastructure; including multiple fibre pathways connecting directly to International Exchanges; supported by high capacity power and reliable connectivity; and friendly cloud and data centre policies.

The SIDH will create a healthy ecosystem for local businesses to scale their capabilities and competencies with knowledge sharing from established data centre players. The hub will also contribute to the development of sustainable communities where future generations can continue to thrive and expand. With the rise of the 4th Industrial Revolution (4IR), the availability of data centres and data centre hubs are becoming more crucial.

Besides SIDH, Iskandar Malaysia also has 3 Data Centre areas at MSC Cyberport, Medini and Nusajaya Tech Park.

The Iskandar Malaysia Urban Observatory (IMUO) is a single platform to keep and analyse data and resources, translation of knowledge into policy and for informed decision making. IMUO is an integrated platform that forms the key thinking component to realise and sustain the Smart City Iskandar Malaysia initiatives.

The IMUO framework was completed in 2016 and IRDA is currently collaborating with United Nation Development Programme (UNDP) to prepare the business plan, data centre system and application and co-ownership strategy between stakeholders.

Iskandar Malaysia is looking at district energy as one of the solutions to reduce carbon emission produced by industry and commercial sectors. To spearhead the district energy initiatives in Iskandar Malaysia, IRDA has registered an interest to collaborate with United Nation Environment Programme (UNEP) in District Energy in Cities Initiative under SE4ALL in May 2016. This initiative is working to raise the awareness on the opportunities and multiple benefits of district energy.

According to study done by World Resource Institute, buildings are responsible for one-third of global energy demand and one-quarter of global GHG emissions.

As one of the effort in reducing carbon emission produced by building, IRDA has sealed a partnership agreement with World Resource Institute as the secretariat for BEA initiative. The BEA is a public-private collaboration that turns global expertise into action to accelerate local government implementation of building efficiency policy and programmes.
**ISKANDAR MALAYSIA BUS RAPID TRANSIT (IMBRT) SYSTEM**

Bus Rapid Transit (BRT) System as been identified as the main mass transit mode in Iskandar Malaysia for immediate implementation in order to provide greater access and mobility to address socio-economic issues and reduction of Iskandar Malaysia carbon emission. The IMBRT is currently in its Detailed Engineering Design phase and targeted for construction in 2019.

**RAPID TRANSIT SYSTEM (RTS)**

The RTS system is intended to be a convenient and cost-effective system that integrates well with other transportation services. The two stations will have co-located Customs, Immigration and Quarantine (CIQ) facilities so that passengers only need to clear immigration once from each way of travel and each station will integrate with new RTS Multi-Modal Transportation Hubs (MTH).

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**JOHOR INTERNATIONAL YOUTH HUB**

As part of the youth development agenda in Iskandar Malaysia, the Johor International Youth Hub (HAB) was created for the youth of IM as a platform to gather, exchange ideas and organize recreational activities among the youth generation.

True to its tagline “for youth and by youth”, HAB has attracted more than 2500 participations from the youth to conduct events and activities at the local HAB which is situated in Hutan Bandar MBJB.

To further strengthen the role of youth in IM, an Iskandar Malaysia Youth Committee (IMYC) has been appointed to be the main representatives for the youth groups in major decisions particularly on youth programmes / initiatives carried out for IM youth agenda.

HAB framework that emphasizes on total participations by youth in HAB overall development.

**2.5K YOUTHS HAVE BEEN INVOLVED AND PARTICIPATED IN VARIOUS YOUTH PROGRAMMES AT HUTAN BANDAR MBJB**

Intended outcomes from the development of Johor International Youth Hub:

- Create a meshing point for the youth to connect, gather and conduct youth activities that promotes sustainable thinking as well as social integration among the youth communities.

- 3,000 LOCAL YOUTH participated and benefited directly from the youth programmes / activities conducted.

- OVER 10,000 YOUTH involved and engaged during the “touchpoint” programmes.

- 75% YOUTH provided positive responses on youth programmes / activities conducted based on surveys given.

- 5% HIGH RISK YOUTH reduced at identified locations within Iskandar Malaysia.
01 MEDINI - OPEN ACCESS NETWORK, OTHER SMART CITY INITIATIVES

The vision of smart city for Medini is to ultimately produce a smart, sustainable community where residents, investors and visitors are able to experience a place that is uniquely liveable, connected, efficient and safe. The goal is to deliver smart solutions to anyone who spends any amount of time in Medini, regardless of which walk of life they originate from with high quality security, infrastructure and services, as well as systems & networks that effectively enhance their quality of life.

Mission Statement

- **CUSTOMERS**
  - Design a holistic and integrated city to provide the best customer experience

- **SHAREHOLDERS**
  - Maximize value creation for our shareholders and stakeholders

- **EMPLOYEES**
  - Committed towards creating a conducive environment to nurture talent

**LEADING THE WAY IN CREATING A SUSTAINABLE LIFESTYLE**

- **LIVABLE**
  - With a high quality of life, including attractive amenities, convenient services, and responsive public services.

- **CONNECTED**
  - With systems and networks that are physical, social and technological, designed to support a more efficient and enjoyable way of life.

- **EFFICIENT**
  - With high quality infrastructure and services that set it apart from other locations in Johor.

- **SAFE**
  - Where people and property are secure and comfortable, day and night.

Medini’s Current Smart Pilot Projects:

- **MEDINI COMMAND CENTRE**
  - Systems such as the Building Management System, Security Management System and Energy Management System have been integrated through web monitoring program installed in Medini 6.

- **SOLAR PANEL AT MEDINI 7**
  - Solar system with 14.38kwp capacity installed on the rooftop of Medini 7 in September 2015.

- **ELECTRIC VEHICLE**
  - Purchased two electric vehicles for the use of Medini visitors and future rental program (in planning process).

- **GREENWALL AT MEDINI 6**
  - 5,425mm x 6,300mm greenwall or vertical gardens help to reduce heat and cleans outside air pollutants - offsets the carbon footprint.

- **MEDINI INNOVATION CENTRE**
  - In line with establishing Medini as a smart township, this challenge encourages younger generation to be innovative and future-oriented, where they too can help model the future-Medini township.

02 RUMAH ISKANDAR MALAYSIA - ADOPTION OF VARIOUS SMART INFRASTRUCTURES AND PROGRAMS

Rumah Iskandar Malaysia was established to change the public perception on public housing. It was created as a benchmark for new public housing concept and standards in Iskandar Malaysia for other developers to evaluate, adapt and incorporate into their projects. Rumah Iskandar Malaysia is also a soft enabler to provide affordable public housing which enhanced public facilities and amenities to be rented out to local residence and transients, who are newly arrived in Iskandar Malaysia to seek employment.

The technology used in building the houses is called Industrialised Building Systems (IBS). IBS is a construction process that utilises techniques, products, components, or building systems which involved prefabricated components and on-site installation. IBS technology resulted in increasing the productivity of works.

Rumah Iskandar Malaysia utilised about only a third of the workers needed on a project of this scale. IBS also resulted in less utilisation of skilled workers like plasterers and carpenters etc. Overall, IBS resulted in a smaller carbon footprint.

In addition, RIM was designed using crime prevention through Crime Prevention through Environmental Design (CPTED) based on the idea that the proper design and effective use of the built environment can lead to a reduction in incidence and fear of crime, and an improvement in the quality of life.

Green Technology is also being uses in Rumah Iskandar Malaysia namely:

- **Solar Panel**
  - Rumah Iskandar Malaysia has PV panels capable of generating 210kwh to reduce cost and reduce carbon footprint.

- **Rainwater Recycling System**
  - Where rainwater is collected though a series of pipes and stored in tanks and used to water landscaped area.

- **Eco-Friendly Paint**
  - Green paint where the paints used is able to reflected 90% of the sun rays and help to cool the building.

- **Cool Roof System**
  - The roof provides a cooler indoor environment due to circulation of air.

- **The Green Paver Blocks**
  - Used for the carpark are made from rejected materials.
UMCITY – Collaborations with Smart Partners

Collaboration with Smart partners

Citadines Medini | Shama Medini | Corporate Office Tower
316 units | 313 units | 108 units

SAMSUNG

SMART SECURITY

Working with Samsung S1 Security, UMLand development employs smart security design and implementation for the following key services - Video Security, Access Control, Emergency Notification.
Korea’s largest security provider Samsung S-1’s provides optimal customized solutions for crime and fire prevention.

SMART TECHNOLOGY

For our Serviced Apartments and Hotels UMLand implements the INNCOM Honeywell system:
- Energy Control with Comfort
- Energy management with BMS Integration
- Advanced Management Information control
- Expanded Functionality Through integration
- On-line door locks, IPTV Control, PMS, BMS
- Innocom is the Global Leader for integrated room automation

SMART ENVIRONMENT

For UMLAND Medini Lakeside, working with AECOM, we used the principles of Water Sensitive Urban Design to minimise environmental degradation and improve recreational appeal.
Rejuvenated and revitalized, the lake will be primed as a natural ecosystem providing water quality improvement, bank stability, wildlife habitat and recreational uses.
In November 2016, Iskandar Malaysia formed the Futuristic Iskandar Malaysia Advisory Council (FIMAC) as a platform for exclusive forums, knowledge sharing sessions and collaboration opportunities in smart city and shape the future of Iskandar Malaysia within the context of technology and innovation in a cohesive and holistic manner.

The platform collectively acts as the market accelerator and advisor to transform Iskandar Malaysia into a smart city. The council members consist of local authorities, professional bodies, academia, technology partners, service/solutions providers and economic sector players in Iskandar Malaysia.

The objective of this document is to provide clear Smart Township criteria for the Smart City Iskandar Malaysia development project in order to improve the quality of Smart Township’s facilities & services and ultimately, spur the development of the region and provide higher living standards for the citizens.

The recognition program is based on the Smart City Iskandar Malaysia framework and components of the Smart Township.

In 2014, Iskandar Malaysia was invited as one of the partnering cities or regions for the Global Energy Efficiency Accelerator Platform (GEEAP), a flagship programme for the Sustainable Energy for All (SE4ALL) initiative led by the United Nations Secretary-General and the President of the World Bank.

Iskandar Malaysia represented the Asia Pacific region in sharing its commitment on Energy Efficiency under the Lima Paris Action Agenda (LPAA) during COP21 in Paris and COP22 in Marrakech. Iskandar Malaysia shared the action plans to improve energy efficiency in two important green initiatives namely Building Efficiency Accelerator (BEA) and Global District Energy (GDE).
ISKANDAR MALAYSIA WITH UK TRADE & INVESTMENT

This is a platform for Iskandar Malaysia to identify potential partners from United Kingdom (UK) for collaboration with local companies in implementing research and development (R&D), and innovation for Sustainable Smart Cities development, new green building materials and technologies.

ISKANDAR MALAYSIA WITH GREENLAND

A collaboration to promote Smart City Iskandar Malaysia framework, characters and components by preparing showcase ‘Show and Tell’ for other stakeholder to understand and implement Smart City concepts in their respective development.

ISKANDAR MALAYSIA WITH NIPA

A collaboration with National IT Industry Promotion Agency (NIPA) to develop the ‘checklist’ or ‘must have list’ for the smart township in Iskandar Malaysia. The establishment of the Smart City Iskandar Malaysia Guidelines for Recognition programme will outline the smart township recognition drivers and criteria.

ISKANDAR MALAYSIA WITH FUTURE CITIES CATAPULT (FCC)

In collaboration with Future Cities Catapult (FCC), Iskandar Regional Development Authority (IRDA) has developed ‘Iskandar Malaysia Innovative Sustainable Transport Solutions’ that identifies Intelligent Transport Solution policy and enabler.

ISKANDAR MALAYSIA WITH HEWLETT PACKARD

A collaboration on using Internet of Things (IoT) as a key enabler in the transformation towards smart cities and how the Hewlett Packard Enterprise (HPE) Universal IoT Platform can support in that transformation.

ISKANDAR MALAYSIA WITH ZENATA

SOCIÉTÉ D’AMÉNAGEMENT ZENATA (SAZ) vision to develop Zenata EcoCity as an example for the rest of Africa and IRDA’s vision to develop Iskandar Malaysia into a strong and sustainable metropolis of international standing formed a strong basis to establish professional, institutional and corporate cooperation in the field of urban metabolism and smart cities approach to urban management and foster the knowledge exchange and cooperation in sustainable urban planning and design.
ISKANDAR MALAYSIA WITH TELEKOM MALAYSIA

Telekom Malaysia (TM) as Strategic Partner for Smart City initiatives in Iskandar Malaysia which will enable TM to implement suitable smart services such as safety and security, smart mobility, city-wide services, energy and facilities management, as well as citizen portal in line with the Iskandar Malaysia Smart City Framework.