



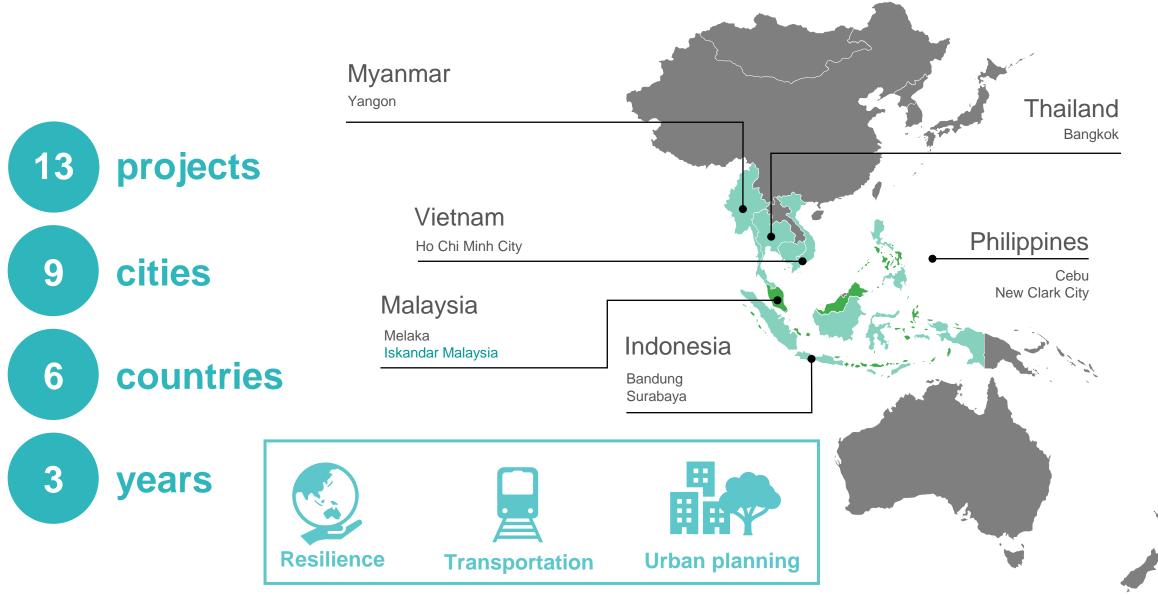
Global Future Cities Programme

SIMMS for Optimising the Transport Network in Iskandar Malaysia

25 February 2021 1.00pm – 1.30pm



Global Future Cities Programme



Introduction to the Speaker

Sujatra Jayaraj CEng MIMechE

- +14 years in EPCM industry globally
- Airports, Rail and LNG
- PM, Engineering, Project Controls



- Mott MacDonald
- Team Lead GFCP Iskandar Malaysia SIMMS
- Developing an Implementation Strategy for a Smart Integrated Mobility Management System (SIMMS)

M MOTT MACDONALD

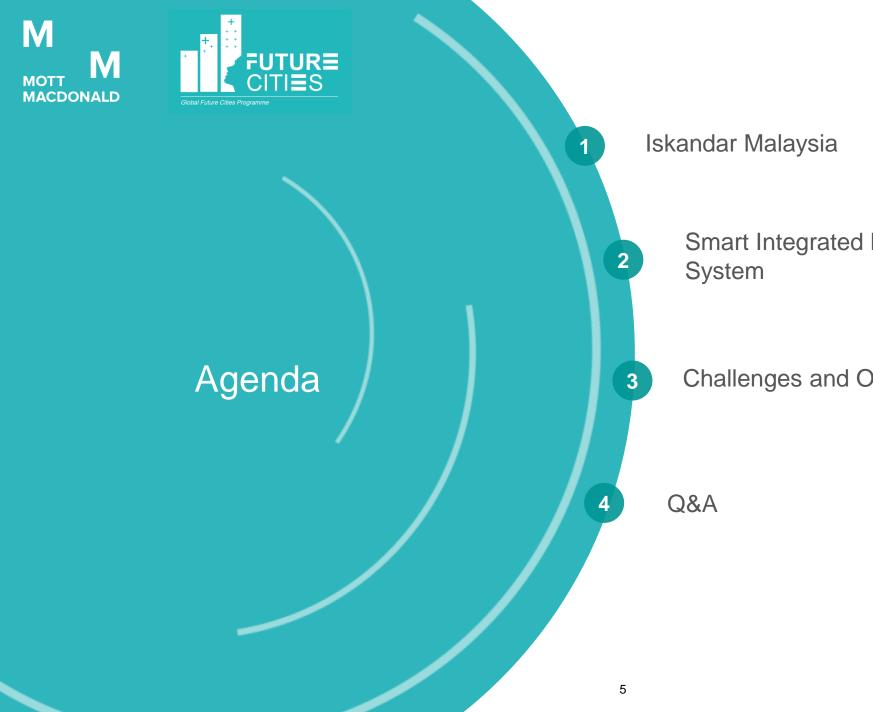


Global Future Cities Programme

Iskandar Malaysia Smart Integrated Mobility Management System (SIMMS)

25 February 2021





Smart Integrated Mobility Management

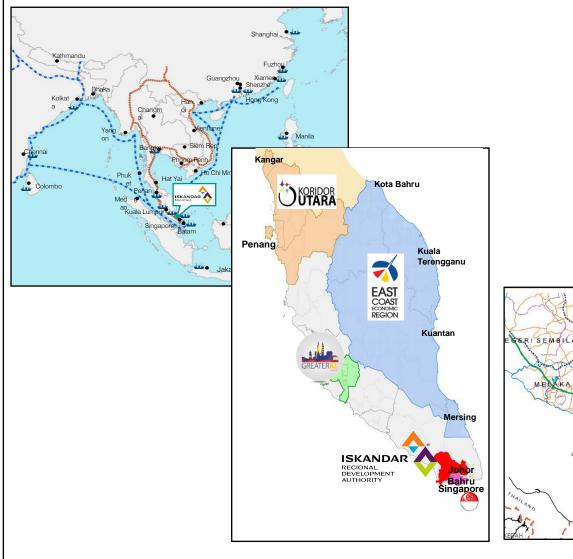
Challenges and Opportunities

Learning Outcomes

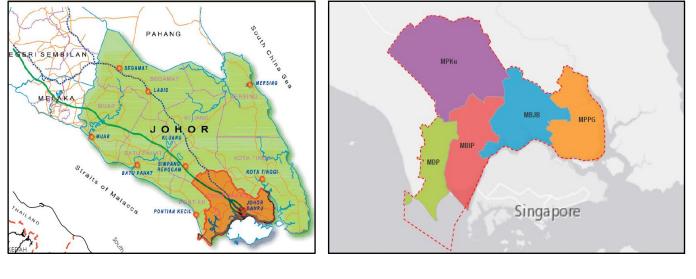
By the end of this session, you should be able to:

- 1. Gain an understanding of what SIMMS is; and
- 2. Gain an understanding of how SIMMS will enable Evidence-Based Urban and Transport Planning.

Iskandar Malaysia: Overview



- An economic development corridor in the Southern Johor, Malaysia.
- Established in 2006, under IRDA
- Encompasses an area of 2,217 sqkm, which is 3 times bigger than Singapore.
- Encompasses 5 local planning authorities



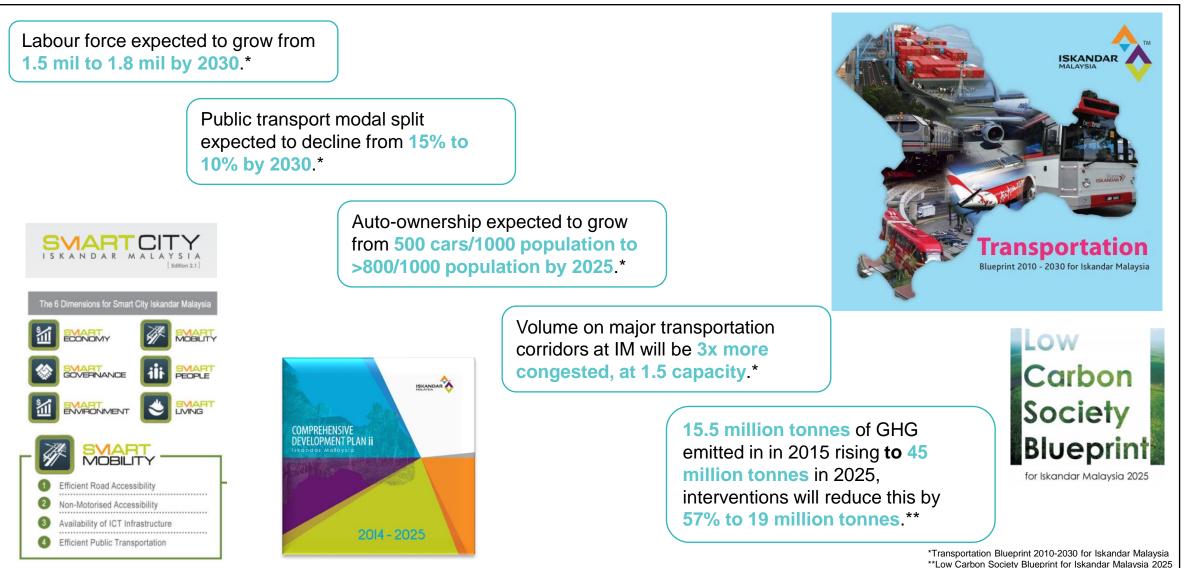
Iskandar Malaysia: A Case for Change

- Economic growth
- Population
- Transboundary economic activity (Singapore)
- Urbanisation (95% by 2040)

- Significant mobility and transportation challenges to come.
- Need a solution to support sustainable growth to avoid negative socio-economic and environmental impacts.



Iskandar Malaysia : Case for Change



***Smart City Iskandar Malaysia

Two Mobility Focused Interventions:





- 1. Provide an Implementation Strategy for a Smart Integrated Mobility Management System (SIMMS)
 - Optimise road network.
 - Minimise traffic congestion, reduce GHG, air & noise pollution.
 - Attain efficiency gains for travel time and cost, mobility management.
 - Allow data collection for Evidence based Urban and Transport Planning (E-bUTP).
- 2. Create Enabling Conditions for Data Utilisation and Management for Evidence-based Urban and Transport Planning (E-bUTP)
 - Integrate and utilise data for sustainable planning.
 - Improved understanding of travel needs of GESI groups.
 - Better understanding of how to promote modal shift to public transport.
 - Efficiency gains in planning processes.
 - Data sharing across different sectors & authorities.

What is SIMMS?

Smart Integrated Mobility Management System (SIMMS)

- Smart
- Integrated
- Mobility Management

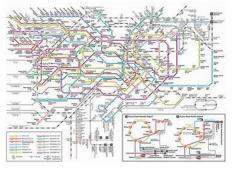
Bringing it all together as SIMMS:

• SIMMS is a system that uses data (via smart technologies) to allow for management of transportation networks at Iskandar Malaysia.





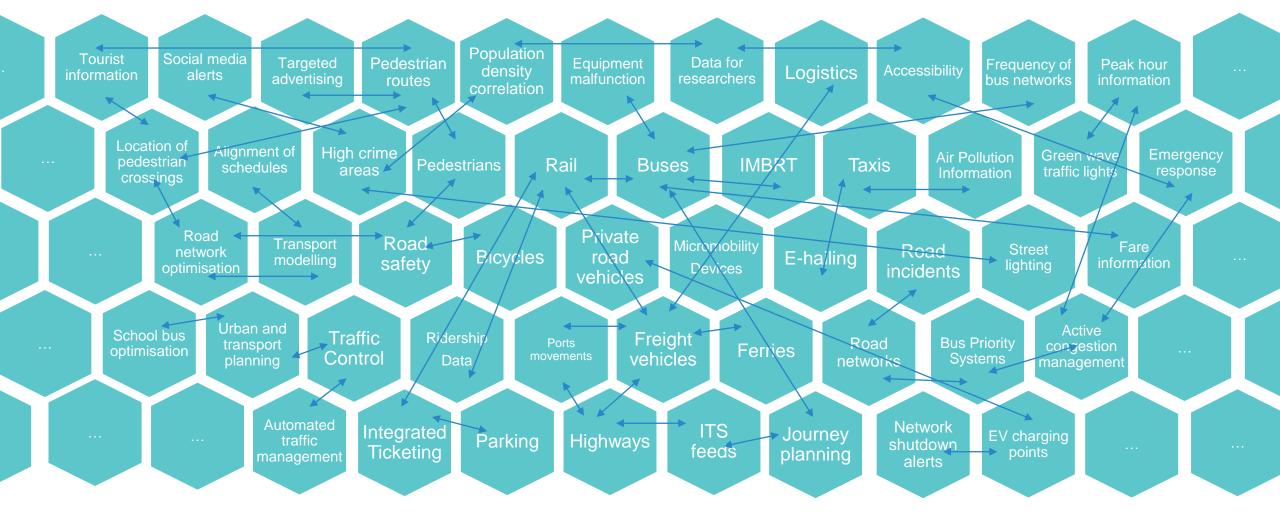




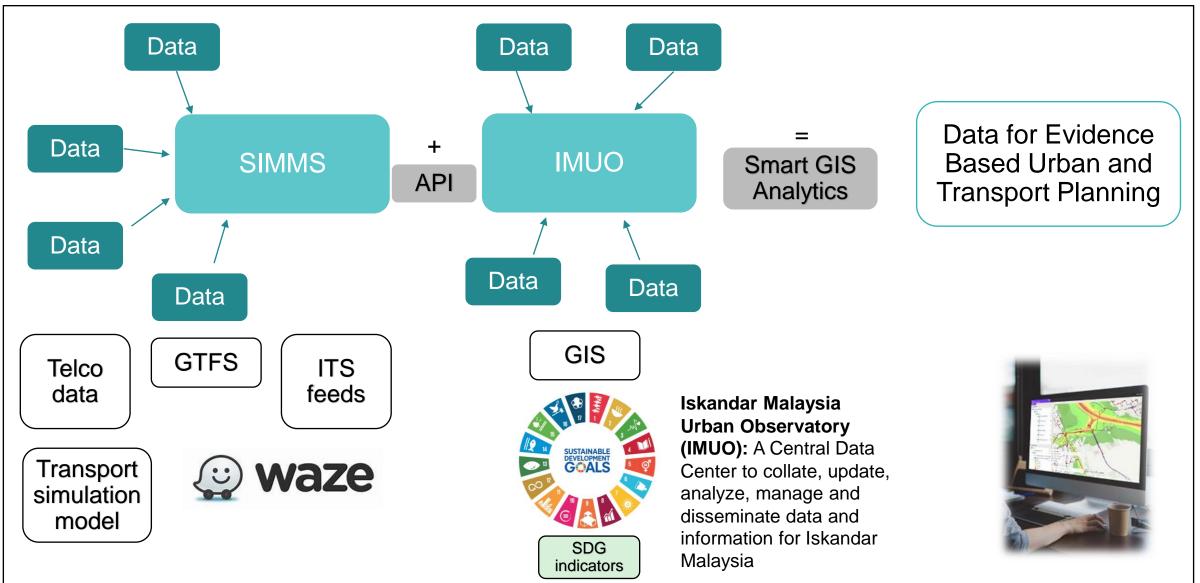


What is SIMMS?

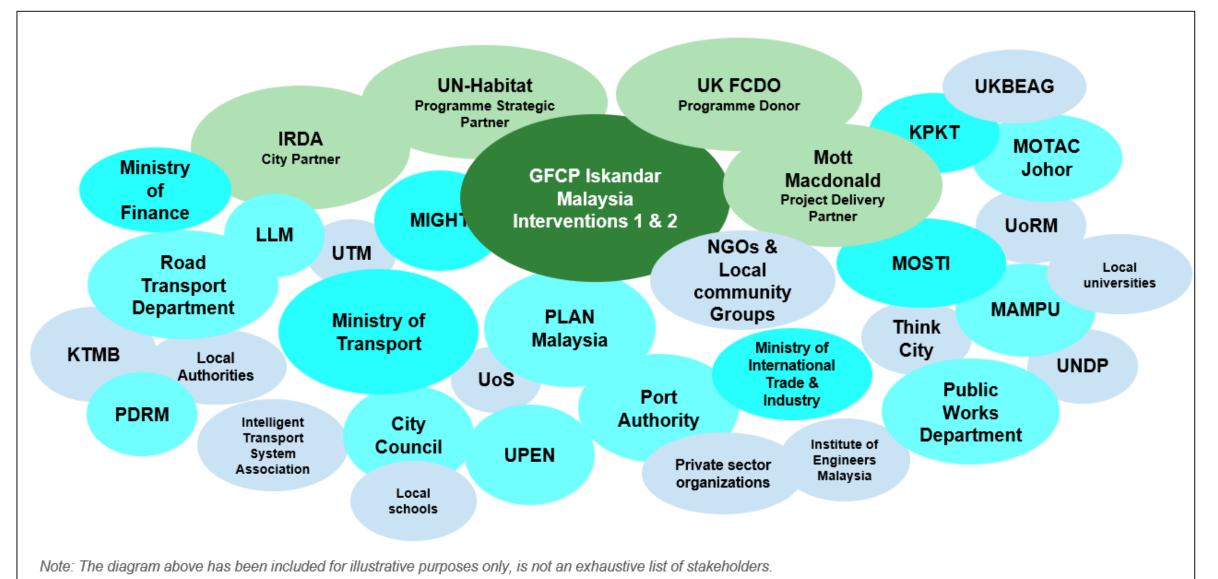
Smart Integrated Mobility Management System (SIMMS)



But there is more...



Who has this data?



Incorporating GESI (Gender Equality & Social Inclusion)

- Gender Equality means the social differences between women and men and boys and girls. Not sex or the male-female biological difference.
- Social Inclusion involves being mindful and including those groups that are left behind marginalized.
- Groups that have been identified as marginalized in Transport Planning and Design include:
 - 1. Women
 - 2. Children
 - 3. Youth
 - 4. The Elderly
 - 5. The Indigenous
 - 6. The Urban Poor
 - 7. The Rural Poor
 - 8. Persons with Disabilities
 - 9. Migrant Workers





Challenges & Opportunities

Challenges

- Data
- Covid-19
- GESI Gender equality & social inclusion
- Infrastructure readiness
- Multiple stakeholders



Opportunities

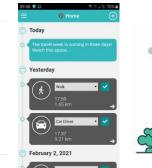
- Implement best practices (UK GDS, UK TAG)
- GIS adoption
- Novel approach to data collection
- Open data

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Government Digital Service





Recap of learning outcomes:

- 1. Gain an understanding of what SIMMS is.
- 2. Gain an understanding of how SIMMS enables Evidence-Based Urban and Transport Planning.

Additional Resources

www.gtfs.org - GTFS data specification

www.gov.uk/service-toolkit - UK GDS technology & digital standards

perjalananku.app – PerjalananKu mobile app

<u>www.gov.uk/guidance/transport-analysis-guidance-tag</u> - UKTAG (Transport Analysis Guidance)

<u>www.globalfuturecities.org</u> – Global Future Cities Programme info