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Overview

GFCP Malaysia Capacity Building Programme

As part of the Global Future Cities Programme (GFCP) capacity building plan, several virtual workshops were organised by the Malaysia Project Team with collaboration from UK partners to leverage off international expertise and share knowledge and best practices with regards to the interventions introduced in Iskandar Malaysia and Melaka under the GFCP.

Some of the themes covered include Geographic Information System (GIS) capability, Intelligent Transportation Systems (ITS) development, Urban and Transport Planning, Gender Equality and Social Inclusion (GESI), alignment of standards and data sharing policies, and heritage area conservation. These sessions were delivered in English and the key audience were made up of the project stakeholders, government and federal agencies, professional and business associations, as well as academic institutions.

Supported by

Foreign, Commonwealth & Development Office

ISKANDAR REGIONAL DEVELOPMENT AUTHORITY

PERBADANAN TEKNOLOGI HIJAU MELAKA

Delivered by

MOTT MACDONALD

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21 February 2021
SIMMS for Optimising the Transport Network in Iskandar Malaysia

Presented by

Sujatra Jayaraj PMP
Project Lead,
GFCP Iskandar Malaysia

Summary

This webinar was an informational session on SIMMS and how it is being designed to meet the needs of Iskandar Malaysia as a Smart City. SIMMS is a transportation and mobility focused tool that will enable better-informed, evidence based urban and transport planning decisions, allowing for integration of static and real-time data as an intelligent smart technology-based system.

By the end of this session, participants were able to:

1. Gain an understanding of what SIMMS is; and

2. Understand how SIMMS will enable Evidence-Based Urban and Transport Planning.

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3 March 2021
ArcGIS Knowledge Sharing Session

Presented by

Nurul Sofiana Syafril
GIS Engineer,
GFCP Malaysia

Summary

This session was held to share knowledge on types of data obtained and how they are use and visualised in ArcGIS, provide a better understanding on the types of applications that can be used in GIS data collection and their differences. It explained how organisations in Iskandar Malaysia and Melaka collect, share and manage GIS data within their organisations as well as with external parties.

By the end of this session, participants were able to:

1. Understand the existing data in the Iskandar Malaysia and Melaka Database;

2. Understand data collection methods; and

3. Understand Data Collaboration Platforms as well as Data Visualisation & Analysis Platforms.

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25 March 2021
ITS & Transport Planning – An Introduction on how ITS Helps in Transport Planning

Presented by

Megat Qamarul Zaffi
Transport Modeller,
GFCP Malaysia

Summary

This webinar offered an overview on key concepts of Intelligent Transport Systems (ITS) and how ITS plays a role in Transport Planning towards building more sustainable and resilient cities. The session also included several case studies and discussed how the innovative use of data and applications enables operators and users to make smarter, more informed decisions about transport networks.

By the end of this session, participants were able to:

1. Gain an understanding on basic ITS concepts; and

2. Understand how ITS plays a role in Transport Planning.

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8 April 2021
Gender Equality and Social Inclusion (GESI) Considerations in Urban and Transport Planning

Presented by

Rite Reddy
GESI Technical Lead,
GFCP Malaysia

Summary

This session offered an overview on key concepts of Gender Equality and Social Inclusion (GESI) and how the needs of marginalised groups could be taken into consideration for urban and transport planning. This session also discussed international and national case studies as well as the challenges that marginalised groups face with regards to transport and mobility.

By the end of this session, participants were able to:

1. Understand GESI needs and challenges with regards to mobility and transport;

2. Increase awareness on importance of incorporating GESI considerations in urban and transport planning as well as strategies for bridging the gaps identified; and

3. Understand how GESI considerations can be taken into account in projects, with examples of GESI engagement in Iskandar Malaysia and Melaka.

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Gender Equality and Social Inclusion (GESI) Awareness Training

30 March 2021
Session 1: Knowledge & Understanding

8 April 2021
Session 2: Strategies for inclusive project design, planning and implementation

2 June 2022
Session 3: Ongoing GESI Learning & Knowledge Exchange

Presented by

Kimberley Green
Regional Practice Leader for Social Outcomes (EUNA)

Rite Reddy
GESI Technical Lead, GFCP Malaysia

Summary

The Gender Equality and Social Inclusion (GESI) Awareness Training was delivered over a series of three sessions. This training aimed to offer an introduction to GESI concepts and strategic requirements of the different GESI groups, with examples of international and national best practices. The sessions also discussed the principles of mainstreaming gender and social inclusion in project interventions.

By the end of this series, participants were able to:

1. Gain an understanding on key GESI concepts;

2. Obtain an overview on the GFCP and its GESI requirements, the three-tier achievement process of minimal compliance, empowerment and transformation;

3. Understand national and international best practice in GESI and mobility and explore Malaysia specific concerns regarding GESI in transport;

4. Obtain an overview on GESI integration principles and strategies with examples;

5. Obtain an overview of GESI impact assessment and socioeconomic analysis approaches.

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7 April 2021

UK GDS Workshop: Digital & Technology Standards

Summary

This workshop aimed to share best practice with regards to digital and technology standards as well as learnings from the UK Government Digital Services (UK GDS). The UK GDS is a unit of the Government of the United Kingdom's Cabinet Office tasked with transforming the provision of online public services. This session also discussed best practices from the work that UKGDS has been doing with Digital Penang as part of the Government Digital Marketplace Programme, which is another programme under the UK Prosperity Fund, similar to the GFCP.

By the end of this session, participants were able to:

1. Understand the importance of standards setting in digital transformation; and

2. Consider some areas where standards setting could be of use to participants' organisations.

Contributors

Tony Richards
Standards and Assurance Lead, UK GDS

Paloma Jain
Senior User Researcher, UK GDS

Ben Vandersteen
Technologist, UK GDS

Tony Richards is the Standards and Assurance lead for the UK GDS programme with 5 years of experience in public service. Tony's work at present focuses on advocating for the use of digital and technology standards to drive digital transformation.

Paloma Jain is a Senior User Researcher with 5 years of experience in public service. She brings with her user research expertise to test procurement related services with global users. In addition, she works with international governments on embedding user research practises on all projects.

Ben Vandersteen is a career technologist with 10 years in development and architecture in the digital realm. His current position draws on that technical experience to support the technological ambitions of partner governments.

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Street Design and Urban Planning Workshop with UK Design Council and Urban Movement

Summary

The aim of this workshop was to share knowledge and best practice on street design principles, network planning, economic advantages as well as designing with Heritage/ UNESCO streets. The event aligned with the theme of Heritage Area Conservation with a strong focus on exemplar schemes for Melaka and was organised in collaboration with the UK Design Council and Urban Movement. The Design Council is a UK charity incorporated by Royal Charter that works to improve lives and promote inclusive design concepts. Urban Movement is made up of transport planners, landscape architects, traffic engineers and urban designers who are dedicated to shaping towns and cities into inclusive places.

Think City – a social purpose organisation based in Malaysia with the goal of creating more people-friendly, resilient and liveable cities, shared their knowledge on implementing projects in heritage context based on real-time experience in George Town World Heritage Site.

By the end of this session, participants were able to:

1. Understand principles of designing people-friendly places in cities and the process for successfully delivering change; and

2. Establish a clear set of street design principles as well as setting out a framework for thinking about streets, how to establish a strong and compelling vision, how to test your design against that vision through design review, and how to talk to people about their streets.

Contributors

Tom Perry
Head of Architecture & Built Environment, Design Council

Tom has 20 years of professional experience both in the UK and internationally delivering a range of projects from new city plans to individual community buildings. Tom has developed participatory design processes to support urban regeneration and neighbourhood planning whilst building capacity across communities and the built environment professions in Europe, Asia, Africa and Central and South America.

Christopher Martin
Co-Founder & Director of Urban Strategy, Urban Movement

Christopher Martin is an influential urban designer and planner working all over the globe to help communities improve their public spaces as well as supporting cities and Governments to develop strategy change policies and make great places possible. He is Co-Founder and Director of Urban Strategy at Urban Movement and a fully qualified Urban Designer and Planner with over 15 years' experience leading complex urban projects.

Dr Matt Benson
Programme Director, Think City

Matt Benson, a trained geographer, is a Programme Director at Think City – a specialised urban regeneration organisation established by the Malaysian government's strategic investment arm, Khazanah Nasional. In his current role at Think City he leads a small team of urban designers and researchers developing and piloting innovative solutions to improve the liveability of Malaysian cities.

Aufa Abd Rahman
Programme Manager, Conservation & Adaptive Reuse, Think City

Aufa is a programme manager at Think City leading the team of Conservation and Adaptive Reuse practice. Her works mainly involve management and coordination of conservation and public realm improvement projects, and management of stakeholders. She is also involved in implementing various projects concerning public spaces, heritage assets and national monuments in George Town World Heritage Site.

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6 May 2021
Smart City Standards with the British Standards Institution

Summary

This webinar offered an introduction to standards for smart cities and the international Smart Cities Standard Framework, ISO 37106:2018 – the international standard for building sustainable cities and communities. This session discussed how the framework supports the implementation of and measures the effective design and delivery of a smart city following a citizen-centric approach, as well as how the framework enables policymakers, municipal authorities and other stakeholders to focus on their strategic priorities whilst providing a process for continual improvement. This session was organised in collaboration with the British Standards Institution (BSI), the national standards body of the United Kingdom, incorporated by Royal Charter and responsible independently for preparing British Standards and related publications as well as coordinating the input of UK experts to European and international standards committees.

By the end of this session, participants were able to:

1. Understand standards for smart cities and the international smart cities framework, ISO 37106; and

2. Understand how stakeholders can align guidelines and local requirements into international frameworks.

Contributor

Emilia Cardamone
Programme Manager – Digital Construction, BSI

Emilia Cardamone is a Construction Engineer, with many years of experience in the market. In BSI from 4 years, she firstly worked in Italy as a Business Development Manager for the Product Certification before joining the Global Product Certification Team where she is currently the Programme Manager for the Digital Construction stream.

Emilia is responsible for the development and management of new Certification Schemes to support the digital transformation within the Built Environment sector. This involves Stakeholder engagement, facilitating discussions and workshops and create a partnership approach within the Construction Industry. She is currently managing The Smart Cities and Smart Communities Kitemark, where she has strong technical background in Urban Planning and Policies. She also supports the global team with the development, sale and management of the BIM Kitemark Schemes.

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Geographic Information System (GIS) Capacity Building

26 October 2021
Session 1: GIS Fundamentals – data gathering and processing

9 November 2021
Session 2: Deriving Data for Urban and Transport Planning

7 December 2021
Session 3: Advanced Metrics

Presented by

Jonatan McCallum
Senior Consultant

Nurul Sofiana Syafril
GIS Engineer

Matthew Fredericks
Data Scientist

Summary

The Smart Geographic Information System (GIS) training was delivered over a series of three sessions commencing from October to December 2021. The aim of these sessions was to look at the work performed to produce the Smart GIS as part of the SIMMS pilot project for the Iskandar Malaysia interventions. This included:

- Data collection
- Processing data into GIS formats
- Applying analytics
- Producing visualisations
- Generating additional functionality

By the end of this series, participants were able to:

1. Understand GIS fundamentals and best practices;

2. Obtain a better understanding on applications for GIS for integration of data files and third-party API;

3. Perform basic GIS data processing using QGIS and Online GIS;

4. Understand derivation of GIS data for urban and transport planning;

5. Understand applications of GIS for data preparation and interface/display;

6. Obtain a better understanding on machine learning an sentiment analysis with practical exercise;

7. Obtain a better understanding on advanced analytics application for deriving Public Transport Accessibility Levels (PTAL) scores and citizen complaint data

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Intelligent Transport System (ITS) Capacity Building

25 January 2022
Session 1: Developing an ITS Masterplan

9 February 2022
Session 2: Planning an ITS Intervention

22 February 2022
Session 3: ITS Tender Assessment Process/Criteria

Summary

The Intelligent Transport System (ITS) capacity building was delivered over a series of three sessions. This training was targeted at middle/senior staff likely to be involved in the development of local and regional ITS masterplans, and design and procurement of road interventions.

By the end of this series, participants were able to:

1. Obtain a better understanding on the key elements of an ITS Masterplan;

2. Understand the end-to-end process of designing an ITS intervention; and

3. Understand the procurement procedure processes, closely related to the development of the technical requirements.

Presented by

Stuart Scott
Project Principal,
Mott MacDonald

Euros Williams
Principal ITS Engineer,
Mott MacDonald