













Smart Transportation Challenge 科技大道;由

Briefing Session

THURS 12 NOV 2020 | 11:00am - 12:00noon Al PLUG | Online



Agenda

- Challenge Background
- Timeline and Milestones
- Development and Planning of Hong Kong Science Park
- Submission Dates and Requirements
- Final Presentation and Ceremony
- Resources and Support (Insights, Data, and Software)
- ESRI Live Demo



Our Daily Commute Problems





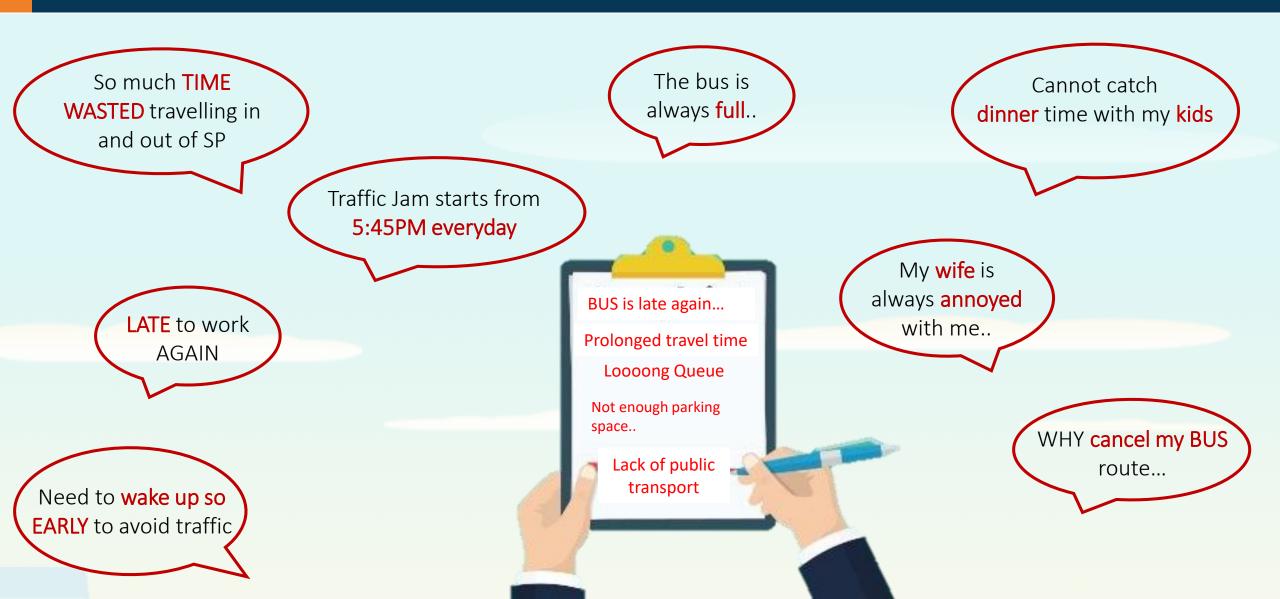








We Hear You



Possible Causes

Change within area. It's happening - FAST!



白石角小巴站排長龍時,



白石角多個住宅屋苑相繼落成, 居民需花費不少時間候車。料提供8,000多個單位。



科學園有近3萬人上班, 亦將有新大樓落成。



創新斗室落實採用「組裝合成」建築法, 有關工程預計可於2020年年底竣工。

Increase in Residentials Expansion of Science Park's **Working Population**





Increased **Traffic**

The Challenge

















Transport Data

Real-time & **Historical Data**

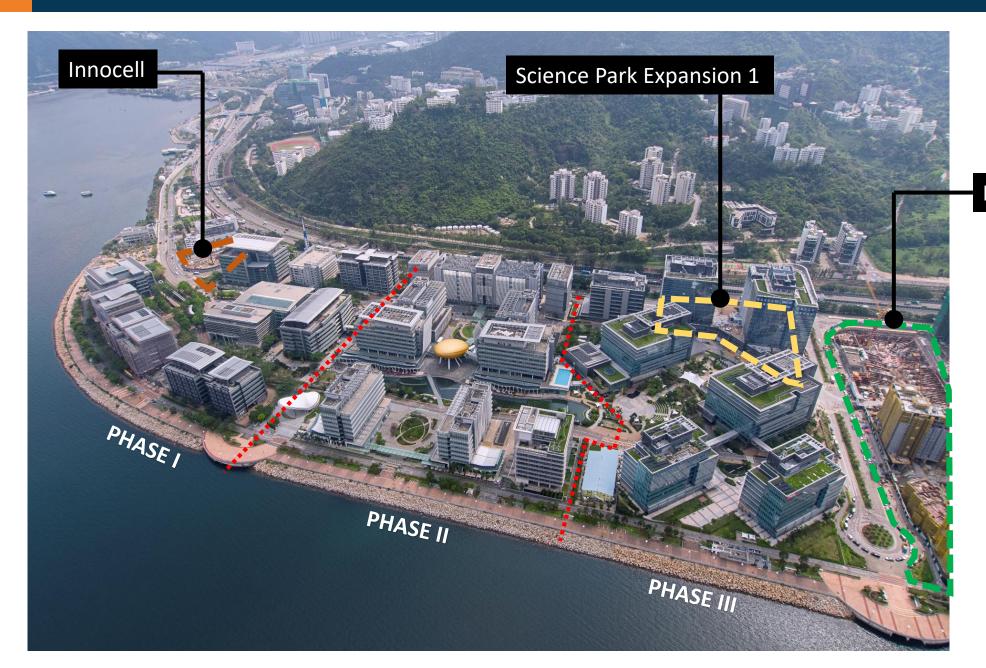
Digital Twin

Geographic Data

Development and Planning of Hong Kong Science Park

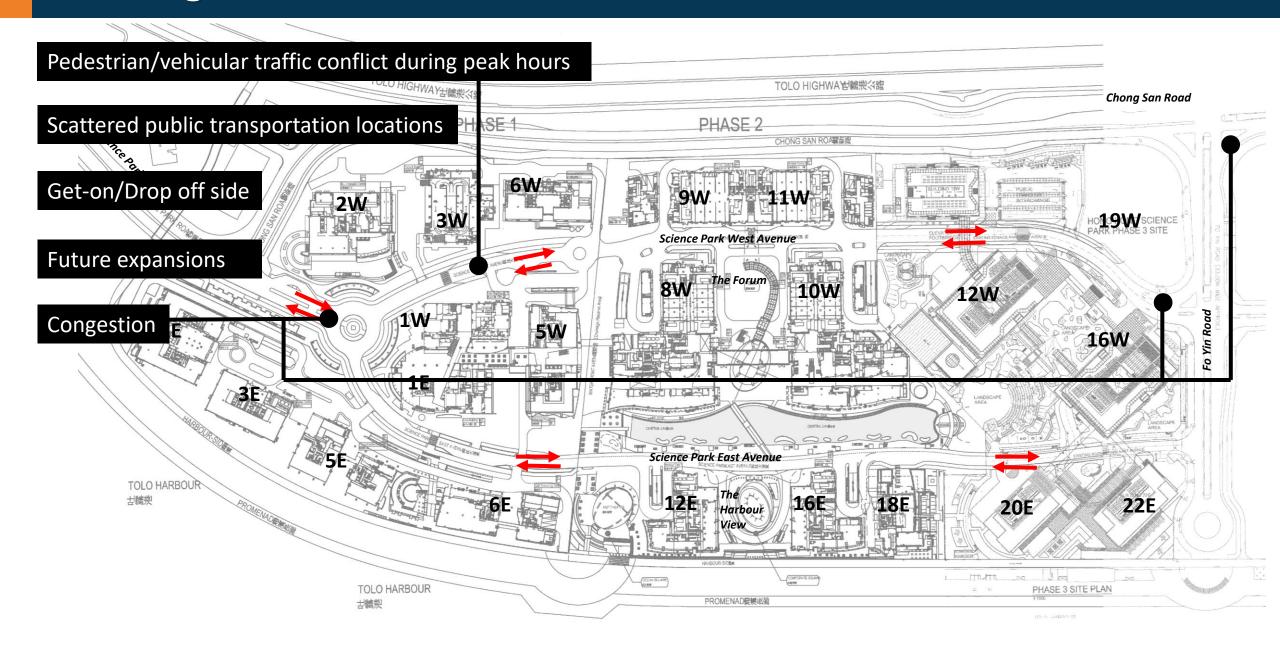


Overview

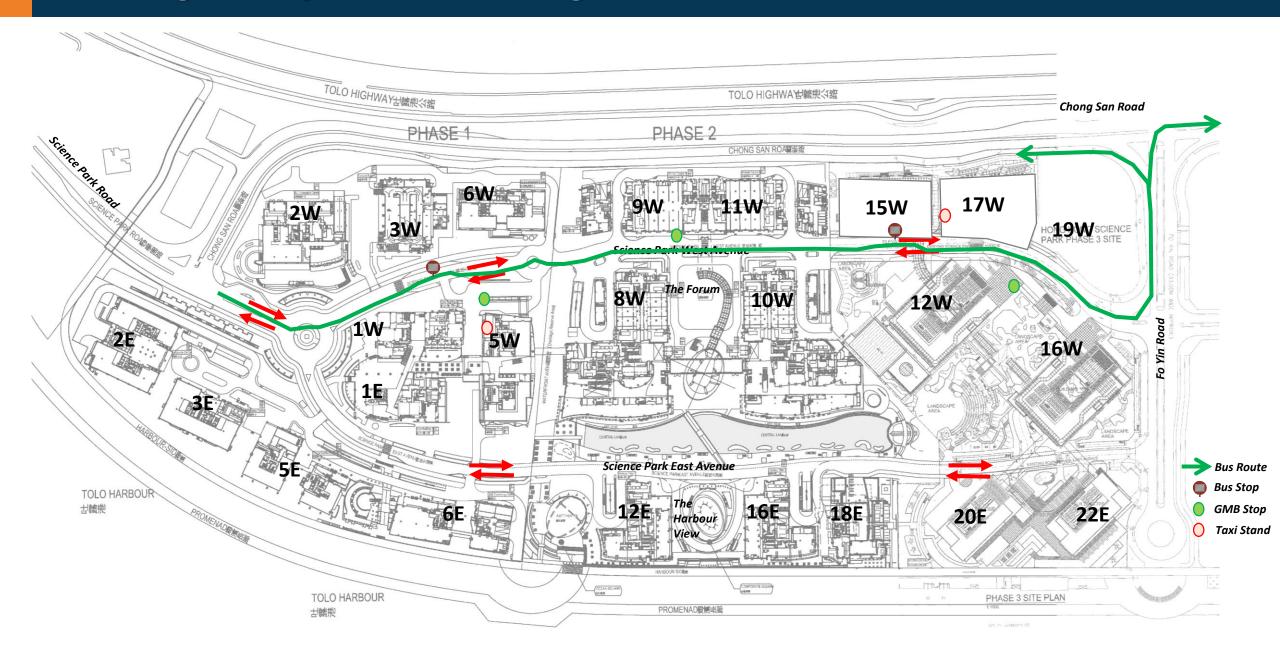


Residential Development

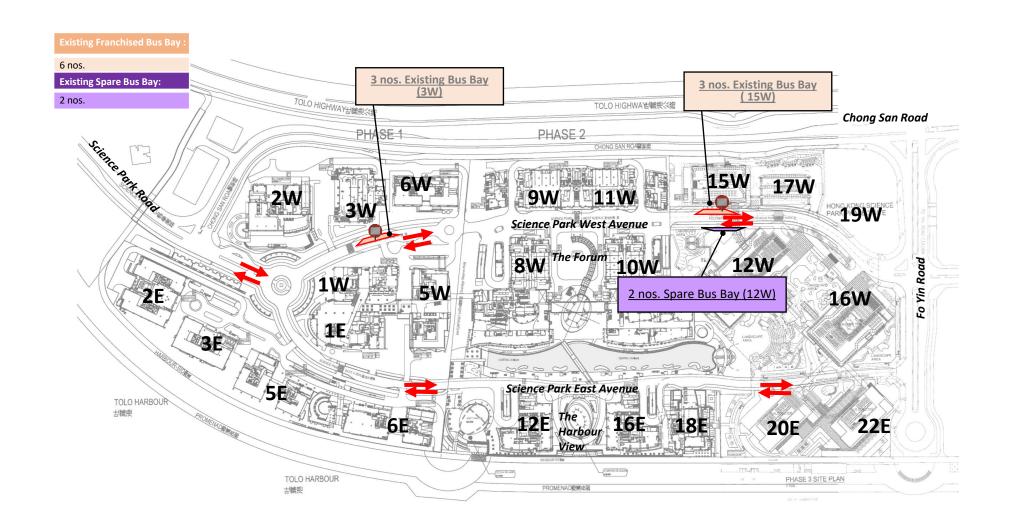
Challenges



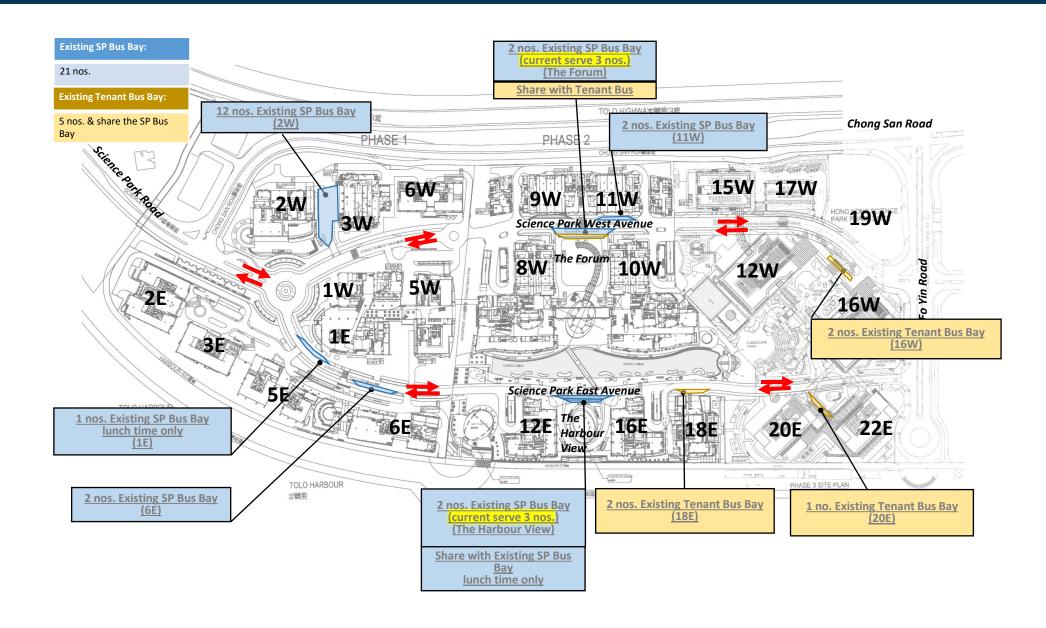
Existing Transportation Arrangement



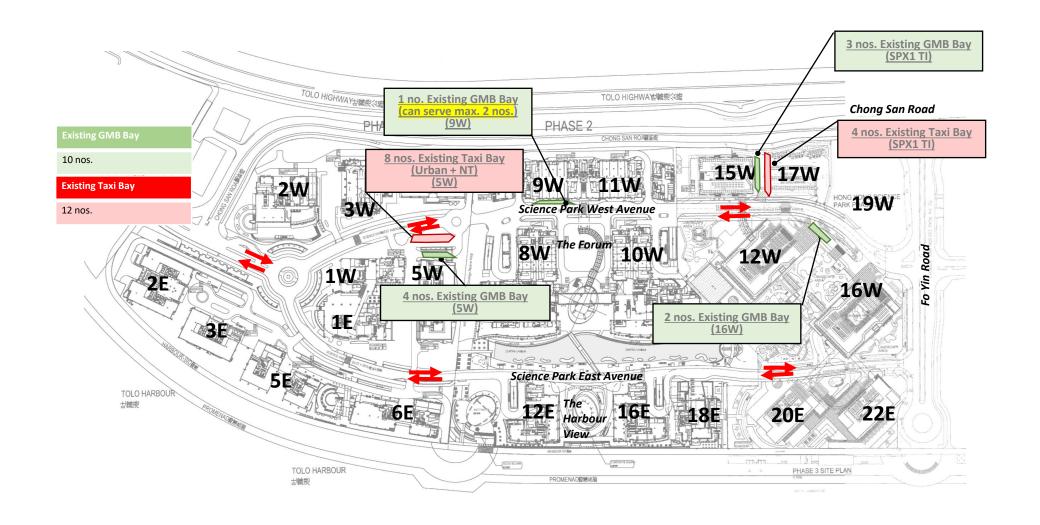
Franchised Bus Bay (8 Franchised Bus Bay)



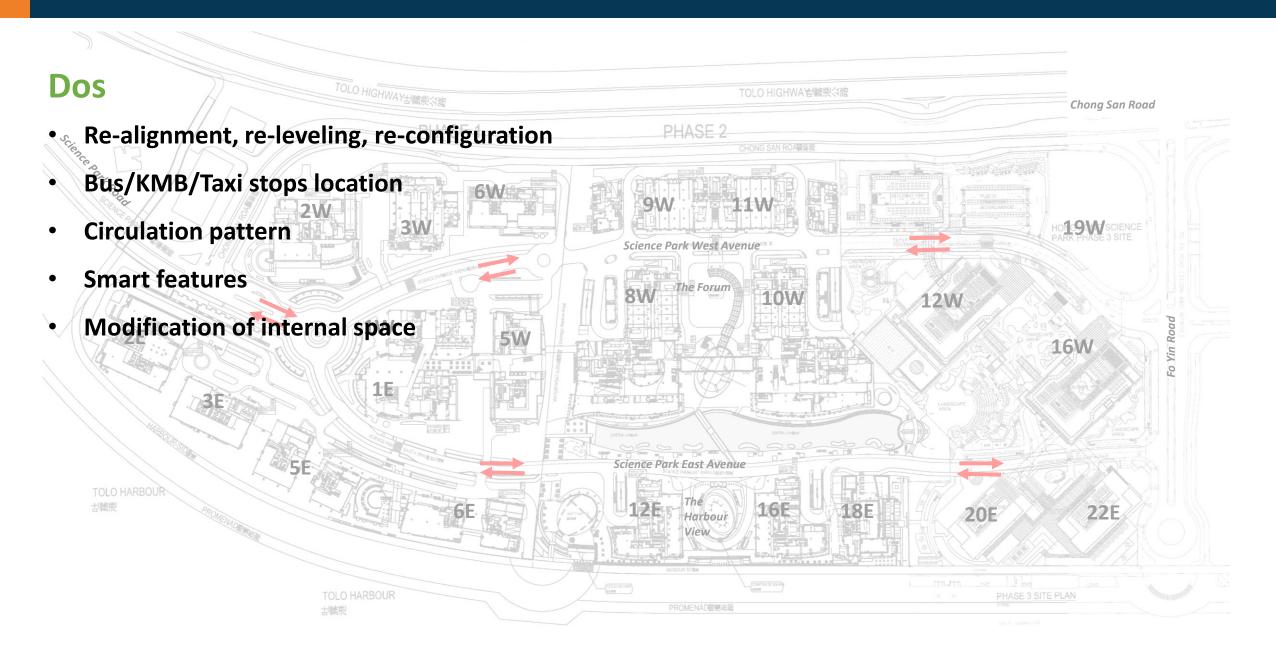
SP Bus / Tenant Bus (21 SP Bus Bay/ 5 Tenant Bus Bay = Total 26 Bus Bay)



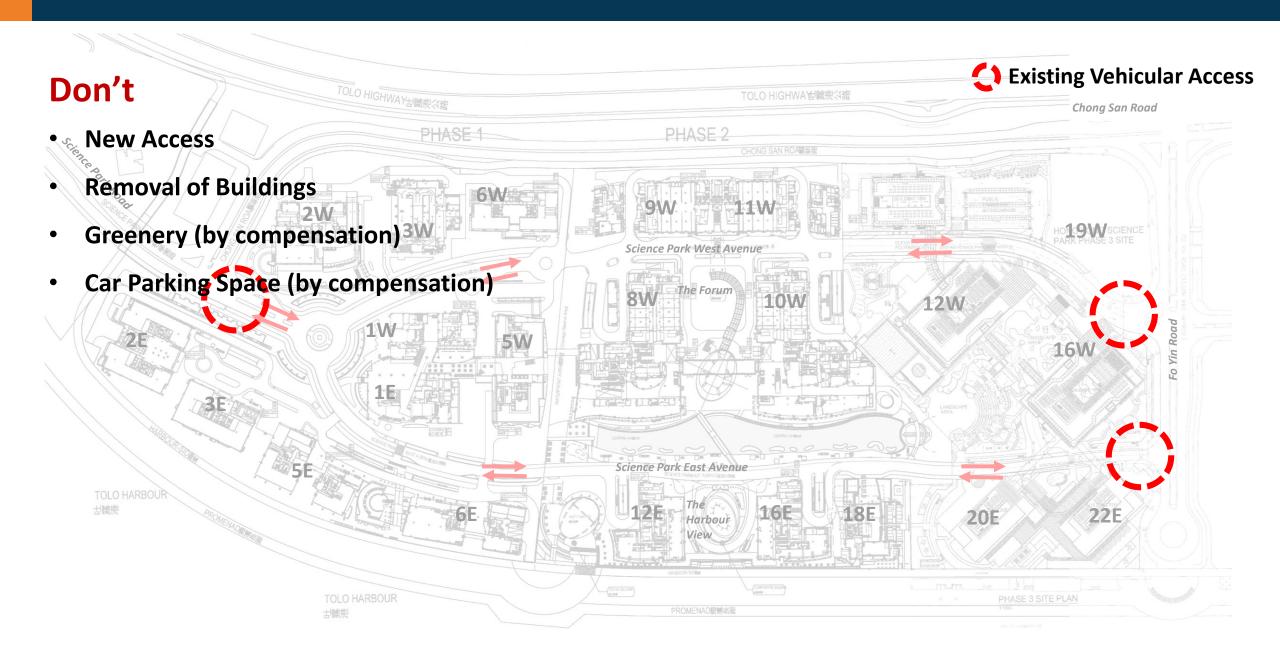
Existing traffic condition at HKSP (10 GMB Bay/ 12 Taxi Bay)



Dos and Don'ts



Dos and Don'ts



OUR OBJECTIVE



Improve Traffic problem



Increase Satisfaction of workforce in Science Park

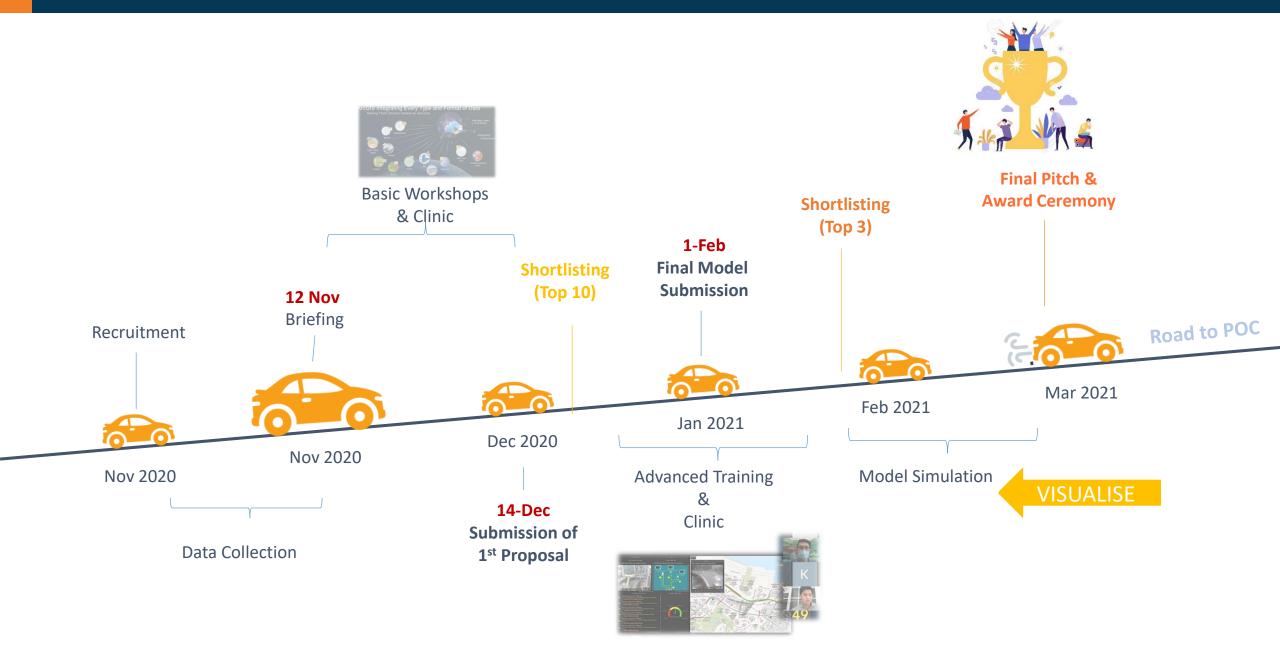


Improve Quality of Living



Support a harmonious community nearby

Timeline and Milestones



Category and Awards



Startup | Corporate | Self-formed



Awards and Prizes

- Free subscription of <u>ArcGIS for Personal Use</u> license for one year for Champion in Open Group (Public)
- Free subscription of <u>Esri Partner Network Bronze</u> for one year for Champion in Open Group (Organisation)
- Free subscription of <u>ArcGIS Online</u> for one year for Champion in Student Group (Tertiary & Secondary)
- **POC** opportunity on Science Park premises



1st Submission

Submission Requirement: <u>5 Presentation Slides</u> in PPT and PDF format based on the below judging criteria









1st Submission Deadline: 14th Dec 2020 Screening Results: 24th Dec 2020

Maximum: 10+10

2nd Submission & Presentation

Submission Requirement: Presentation Slides and Presentation





Environmental Impact, Resilience, Implementation & Operation





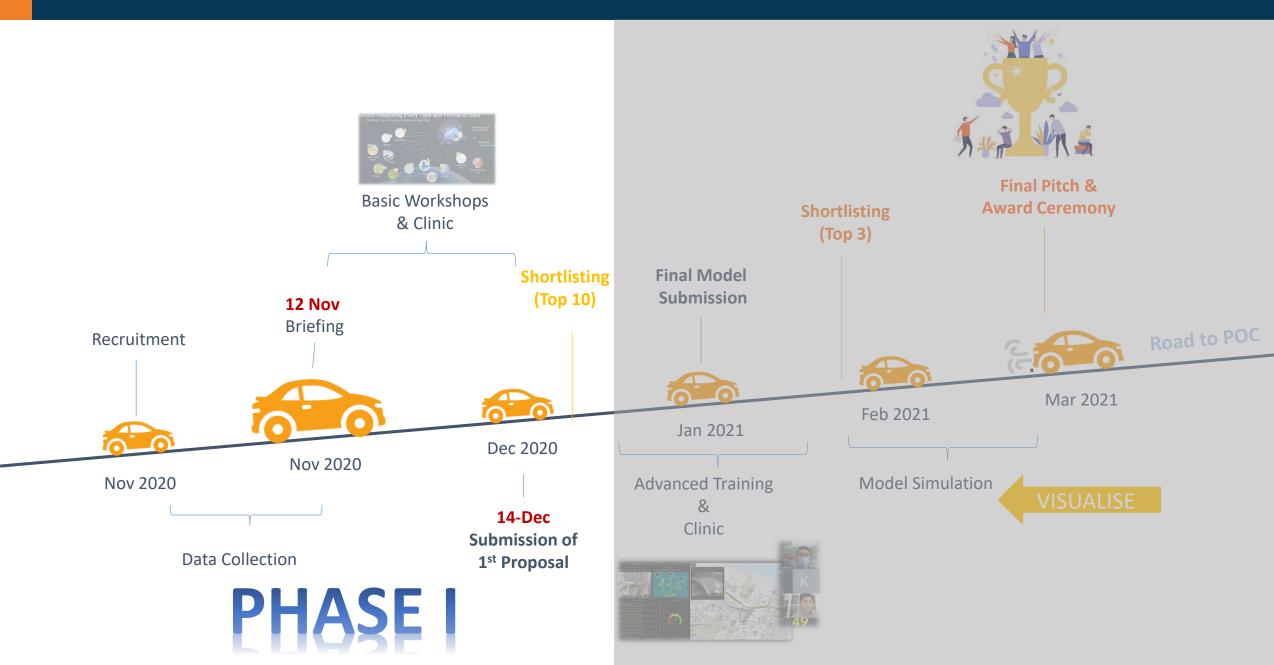
2nd Submission Deadline: **1**st **Feb 2021**Announcement of Results: 10th Feb 2021

How to start?

Phase ONE Dataset | Tools | Workshop | Clinic

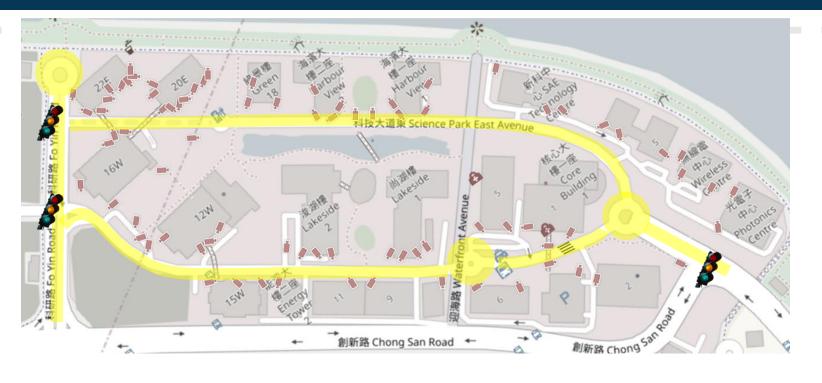


Phase ONE



Data Provision

RESIDENTIAL & TAI PO





TOLO HIGHWAY





Science Park

On-premise Smart Campus & FM historical data

- Bus Stop and Minibus People Queue
- Vehicle count on Red Taxi, Green Taxi, Minibus
- People Flow Data
- Road monitoring at roundabouts, car parks, etc











https://smart-transportation-datastudio.hub.arcgis.com/

Considered Data



Lands Department Data

- Map API
- Visualisation Map
- Basemap



Transport Department Data (with history)

- Traffic Snapshot Images from CCTV
- Traffic Speed Map
- Special Traffic News







Public Transport Data

- MTR train information
- Real-time "Next" arrival time and related data of KMB

No limitation on Treferencing External Data

Welcome to search for more to enhance your solution



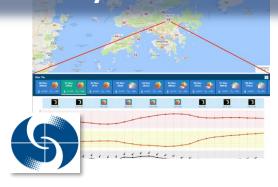
Planning Department Data

- Projections of Population Distribution 2019-2028
- 2016 Population by-census



Town Planning Board

- Planning Applications Considered
- General Papers



HK Observatory Data

- 9-day weather forecast
- Rainfall Distribution Map
- Rainfall lightning Nowcast

Phase ONE Support and Resources



Esri China (Hong Kong) Limited



Lands Department 地政總署



Transport Department 運輸署



Smart Campus@HKSTP

GIS Tools

GIS Software training & workshops How to visualise your proposals

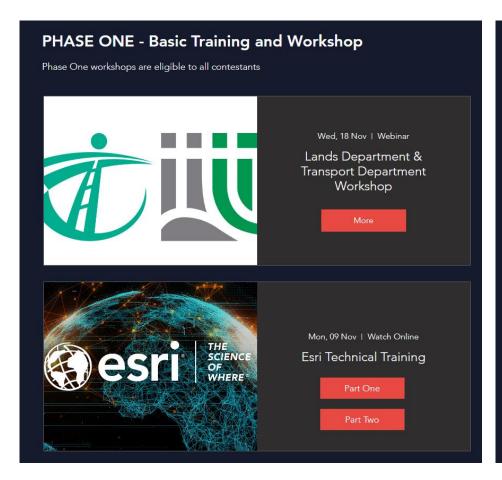
Software Training & Department Sharing

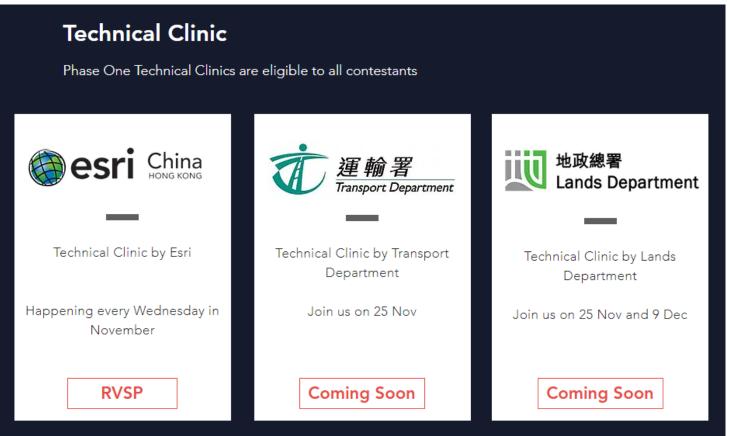
Intelligent transportation planning
Sharing on transportation related applications
Insight from the Data

Technical Clinic

Professional commenting
Sharing experience on specific topics

Website







Software Tools and Training



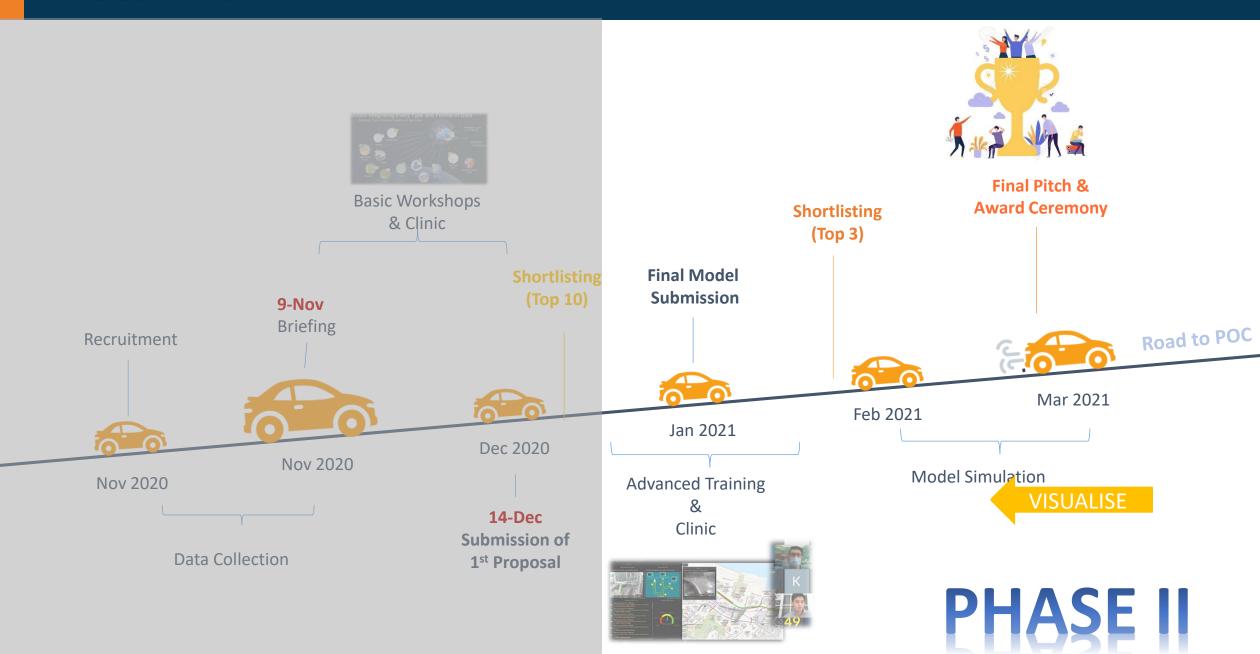
ArcGIS

The mapping and analytics platform

ArcGIS is the heart of the Esri Geospatial Cloud.



Phase TWO



What Next?

Phase TWO

Advanced Training | Professional Insights | More Data | In depth Clinic

Phase TWO Support and Resources



Esri China (Hong Kong) Limited



Smart Campus@HKSTP





Lands Department 地政總署 **Data Analytics and Workshop**



Transport Department 運輸署

Technical Clinic





The Kowloon Motor Bus 九龍巴士 **Networking Opportunities**



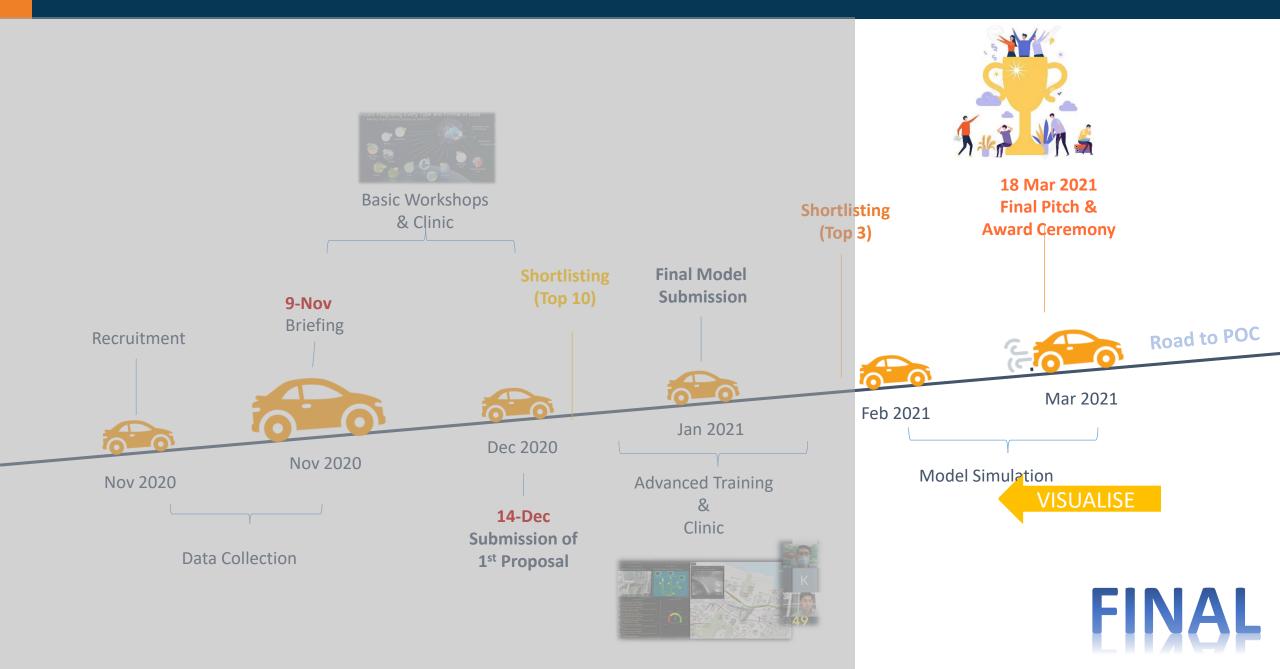


MTR 港鐵



HOW TO VISUALISE YOUR PROPOSAL?

Final Presentation





Q&A