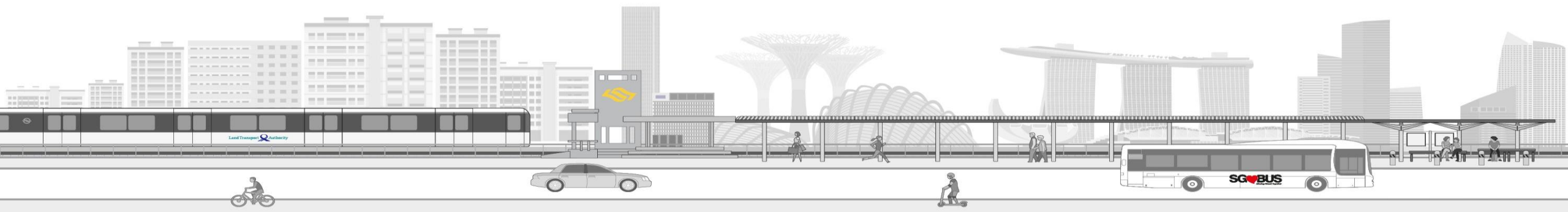


Theme 3: Safe Assets

Problem Statement 5:

Develop a safe and cost-effective cleaning solution for gantry signs with minimal disruption to traffic

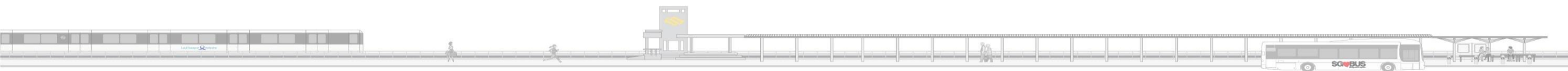
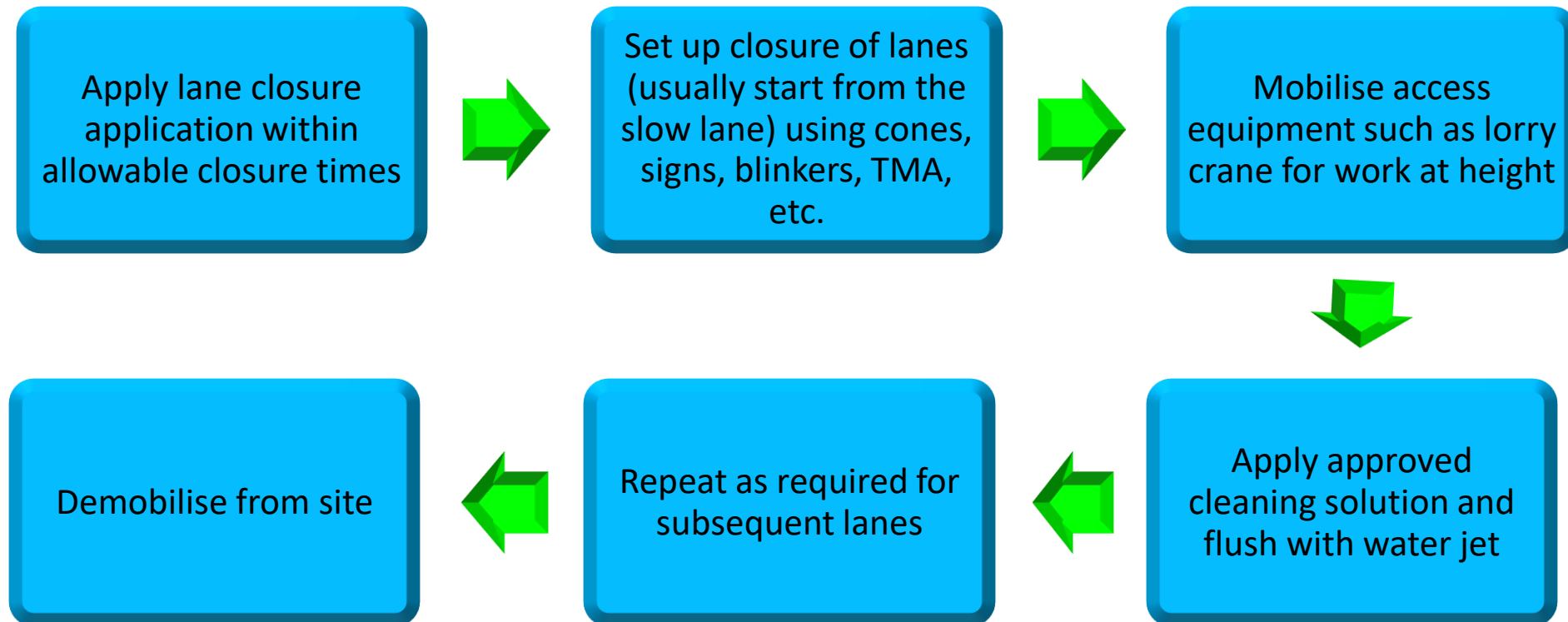
Presenter – Thomas Ngew (Bridges & Tunnel Management)



THEME 3: SAFE ASSETS

5. Cleaning of Gantry Signages

Current Methodology



THEME 3: SAFE ASSETS

5. Cleaning of Gantry Signages

Challenges Faced



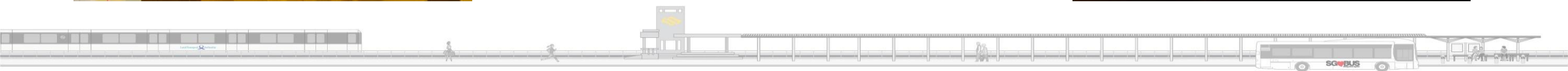
Labour Intensive

Lane Closures required - poses disruption to motorists



Limited working window – late night / wee hours to minimize disruptions

Work at height - high risk work for workers



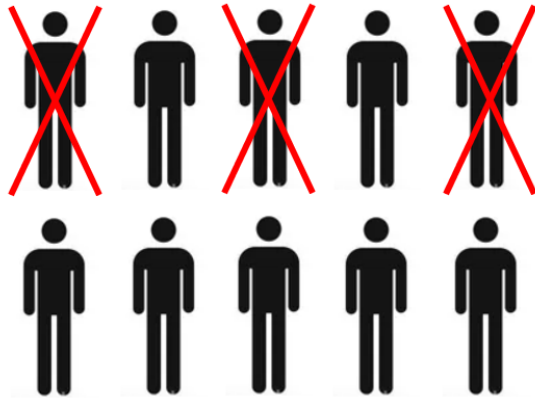
THEME 3: SAFE ASSETS

5. Cleaning of Gantry Signages

Solution Re-engineering

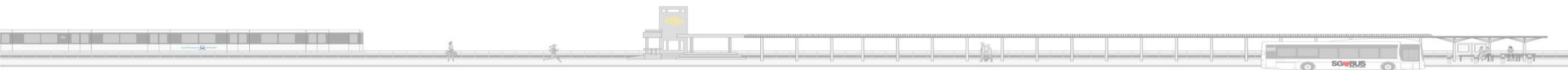
Targets

- At least 25% reduction in manpower
- At least 25% reduction in washing duration



Exclusions

- Drone **not** permitted to fly near / above live traffic.
- Rail-and-Track machines **not** to be considered– Likely to result in high modification costs to existing gantries



THEME 3: SAFE ASSETS

5. Cleaning of Gantry Signages

Questions & Answers:

Q1: What is the height of the gantry signs?

A1: Please refer to LTA's Standard Details of Road Elements – Chapter 10

https://www.lta.gov.sg/content/dam/ltagov/industry_innovations/industry_matters/development_construction_resources/Street_Work_Proposals/Standards_and_Specifications/SDRE/Content_Page_JULY_2020.pdf

Q2: What is the typical road closure times?

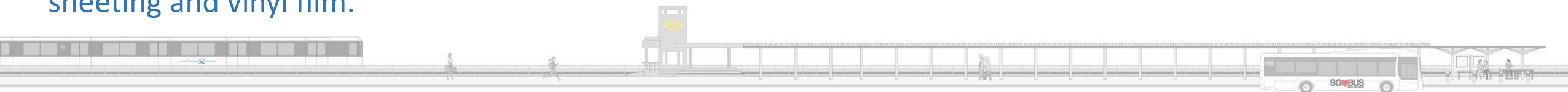
A2: Typical road closure time for cleaning activity usually takes place after 10.30pm and ends before 5.00am the next day.

Q3: Will LTA consider solution that applies a special coating to the gantry signs so that the time interval gantry signs cleaning can be increased from 1 year to 1.5 – 2 years?

A3: We are open to any solutions / combination of solutions that best fit our objectives and requirements.

Q4: What are the material of the gantry signs?

A4: The material of the gantry signs is typically made of aluminum composite panel with retroreflective sheeting and vinyl film.



Thank You



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