

Development of Digital Twin for Tuas Port Construction Activities





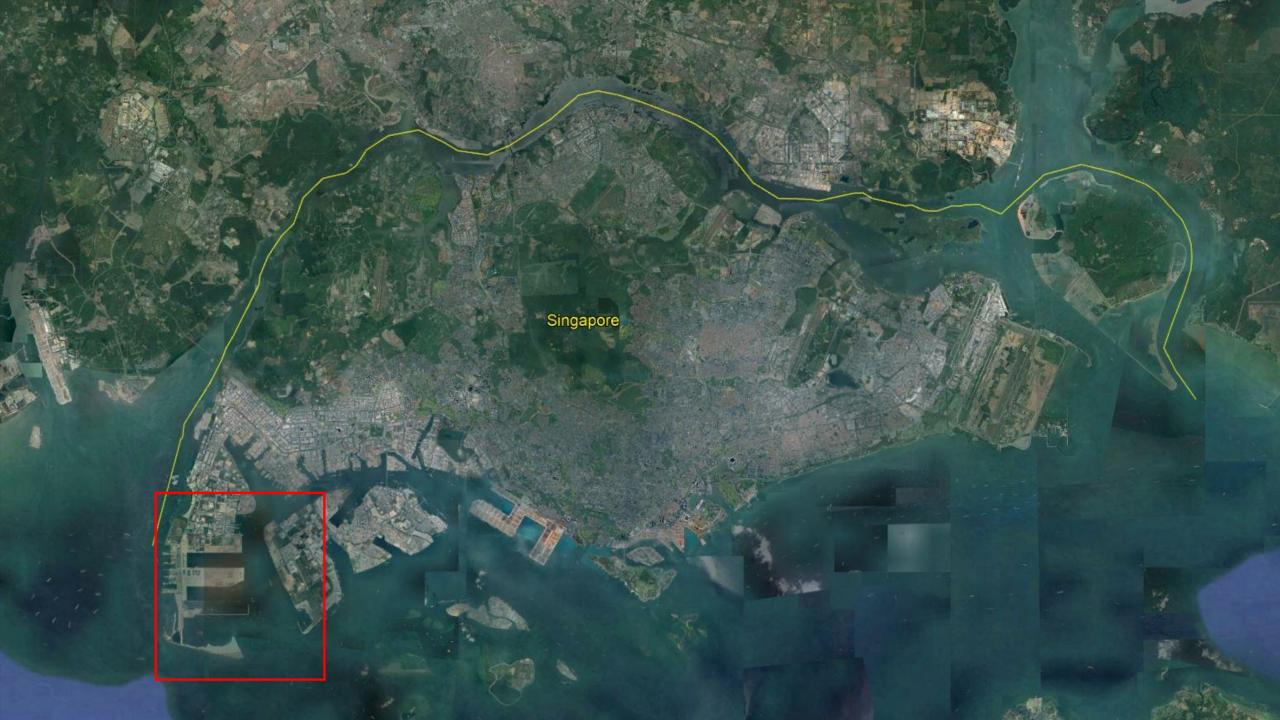
Lee Loo Hay
Professor, Dept of Industrial Systems Engineering & Management
Co-Director C4NGP
National University of Singapore

Event 1

Event 2

Event 1

Executor











Hotspot

Safety

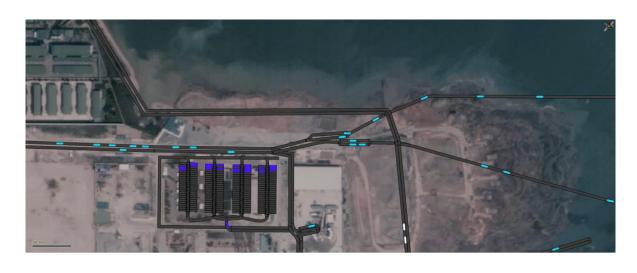
Mitigation Strategy

Scalability

Digital Twin for Tuas Construction Site

Traffic Hotspot Prediction



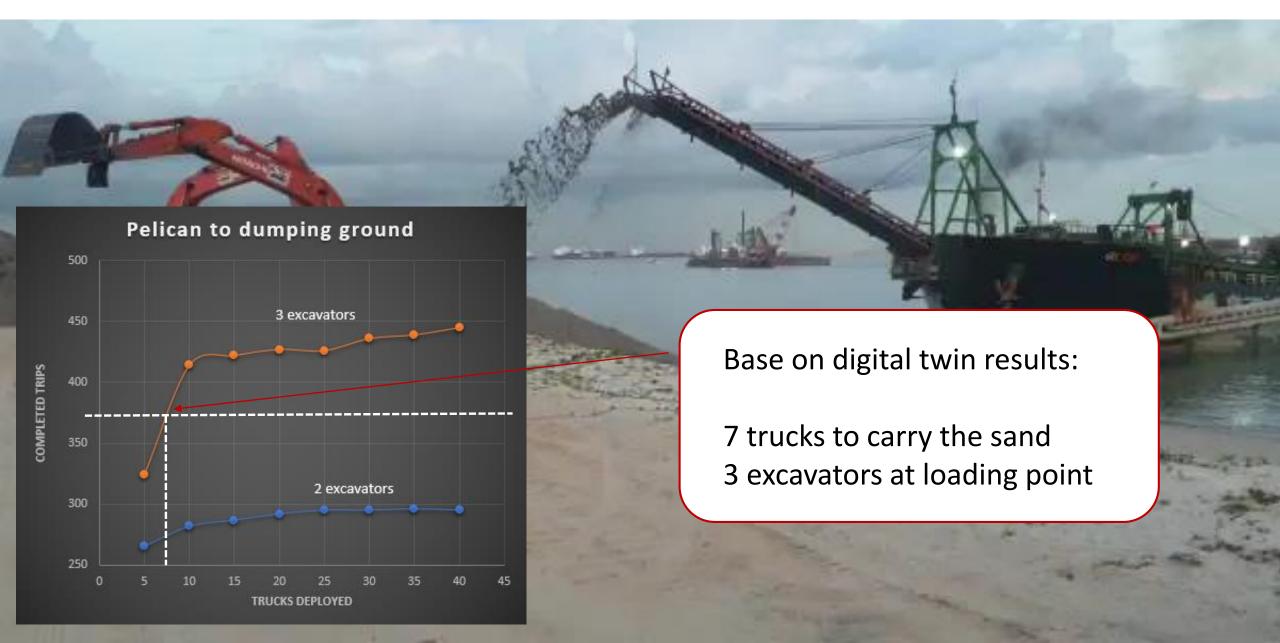


Current situation: soil truck traffic



Future situation: soil truck traffic + planned additional 70 sand trucks

- Safety (contractors and users)
- Reduce in operating efficiency and delay
- Mitigation strategies





Digital Twin



Crystal Ball to see the Future

Center of Modeling and Simulation for Next Generation Port (C4NGP) @ Innovation 4.0, NUS

