

Bye-Bike

Vision with a Mission: Safeguarding pedestrians’ safety one step at a time

By: Team Bus MRT Walk (BMW)

Problem

Context

As part of **LTA’s Walk-Cycle-Ride** campaign, cycling paths will reach 1,300km in distance by **2030**
In 2024, **over 200km** of cycling paths are **built adjacent** to footpaths

Current Measures

- Fine of up to **\$2,000** or;
- Imprisonment of up to **3 months** or;
- **Both**

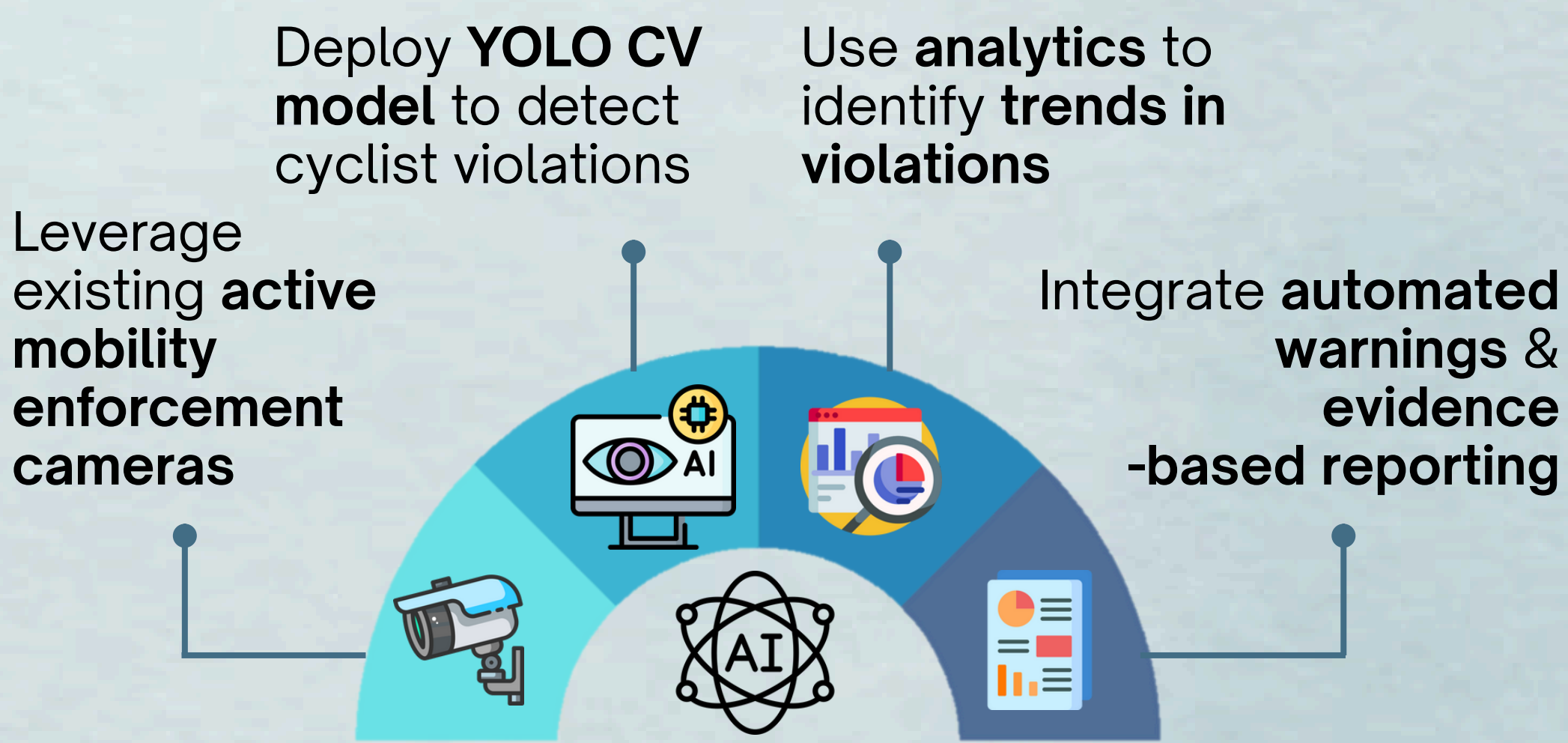
1

Low Deterrence

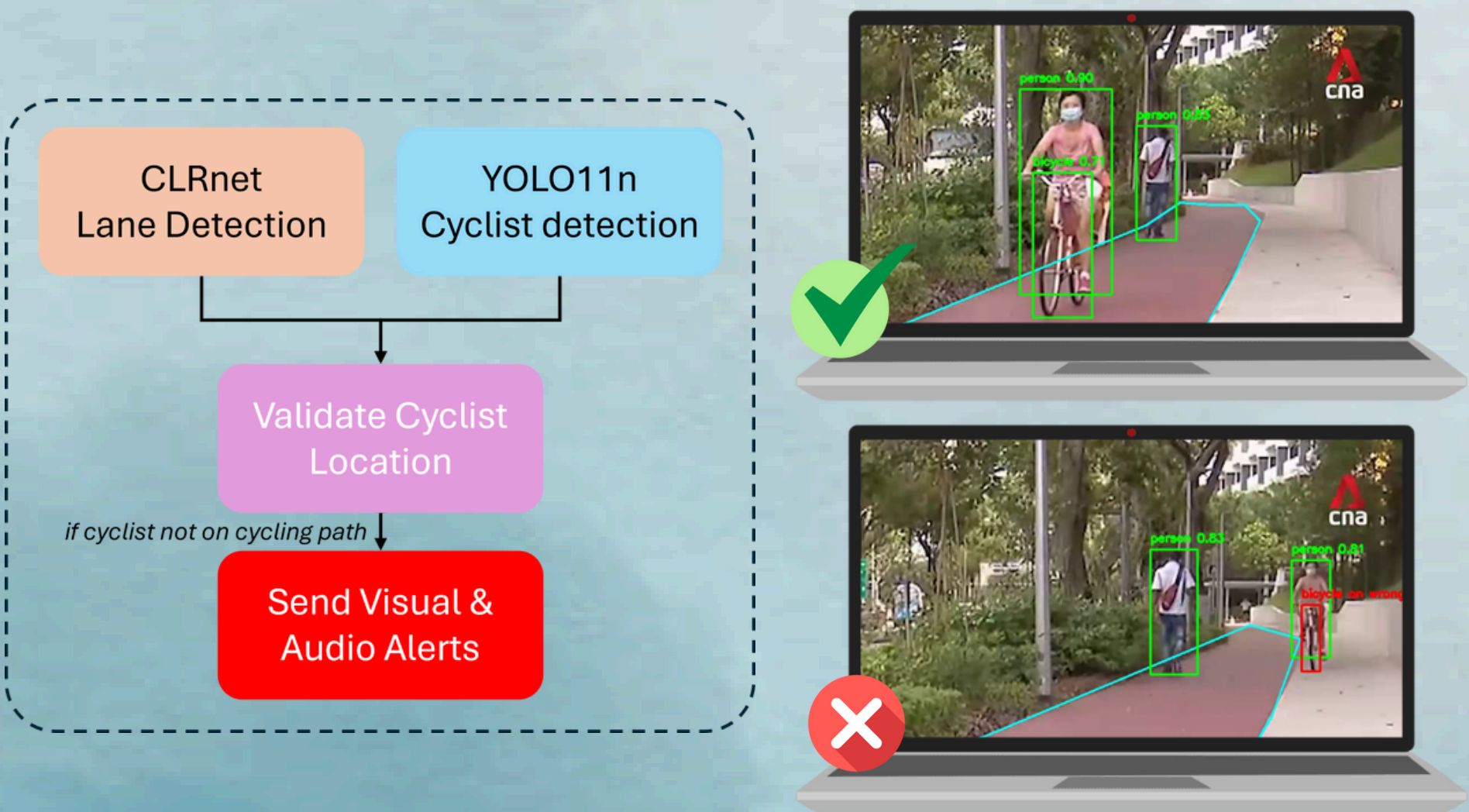
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Resource Intensive

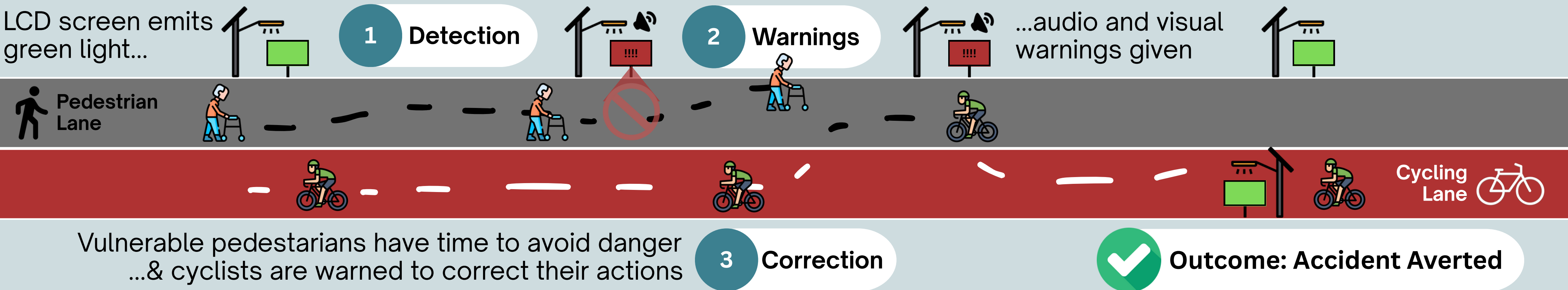
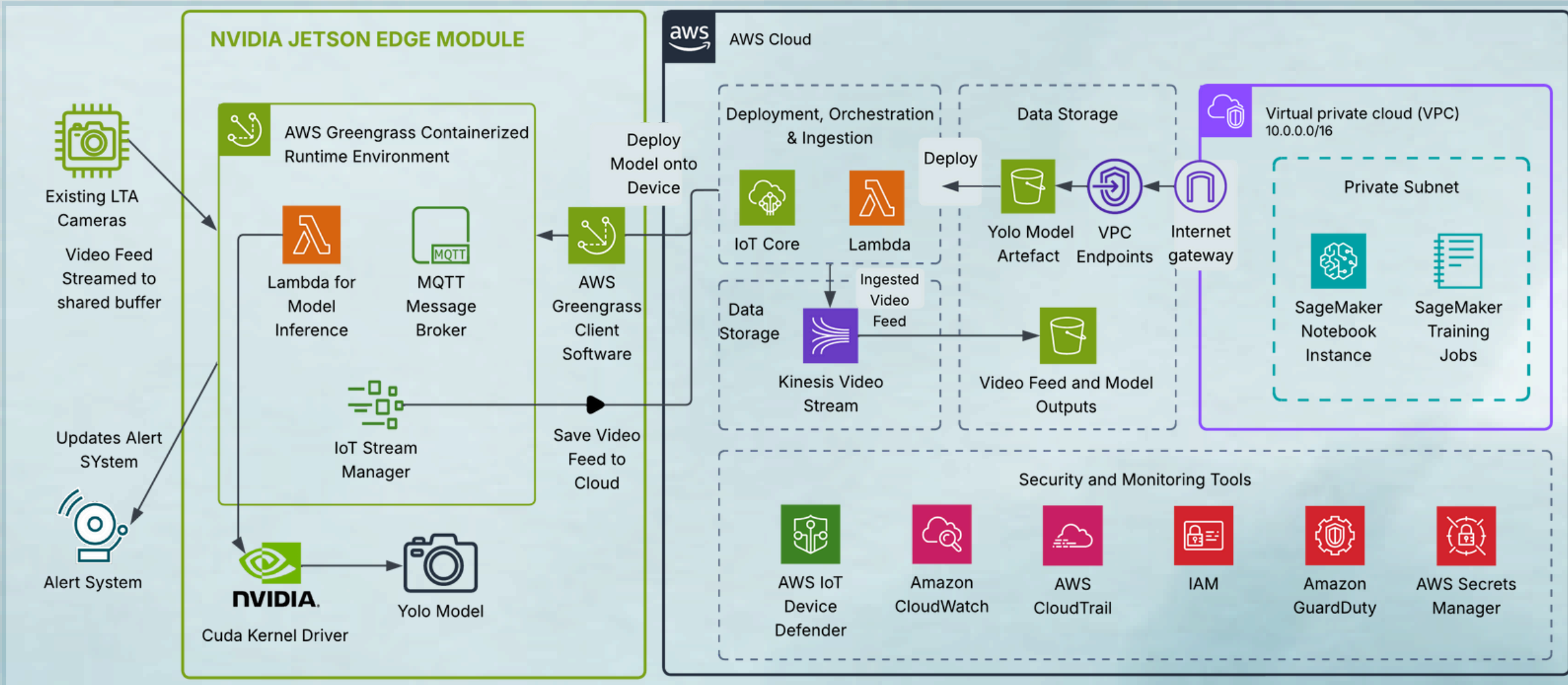
Introducing Bye-Bike



Algorithm Flowchart



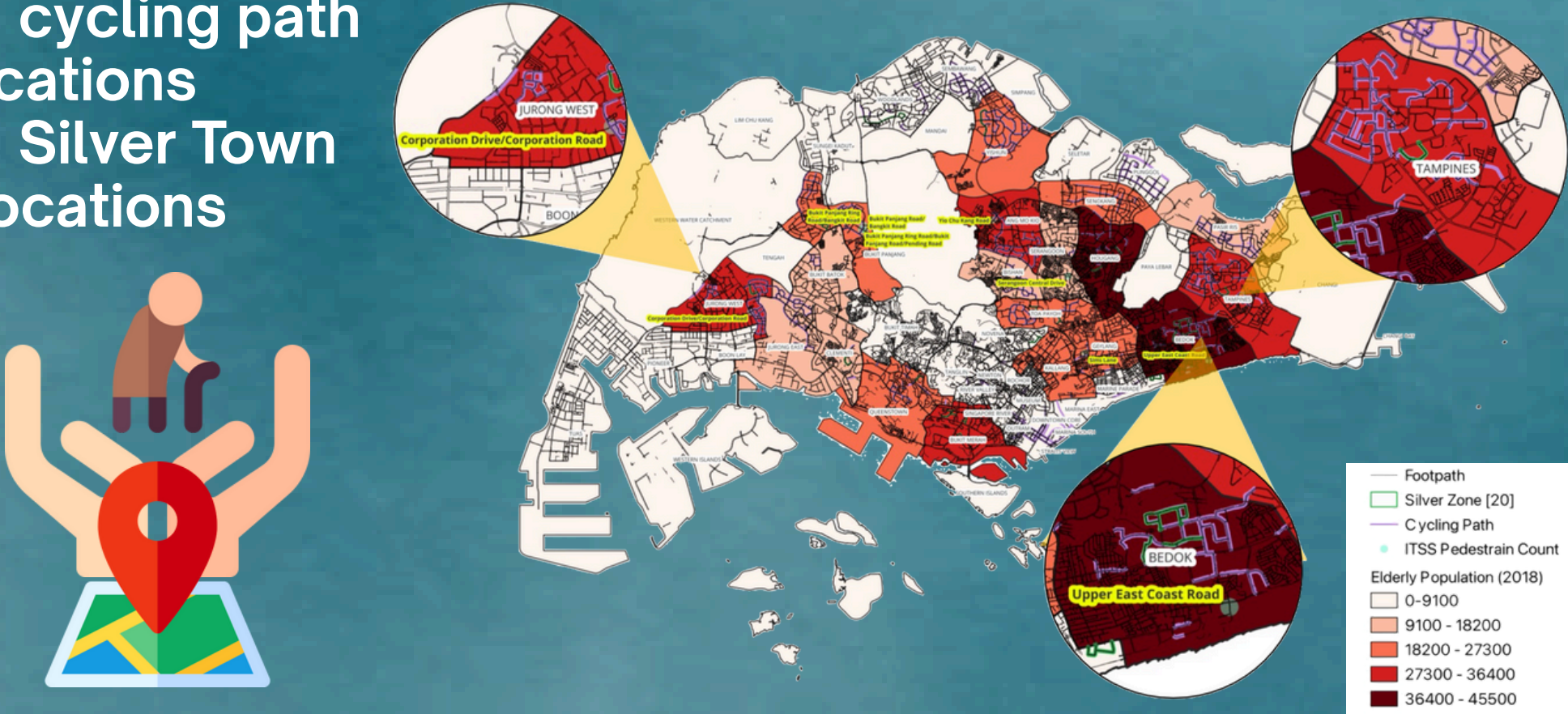
AWS Infrastructure



Implementation

Three key locations were identified for possible pilot-testing based on

- elderly population density
- cycling path locations
- Silver Town locations



Bye-Bike’s Deployment



Value Proposition

- Real-time Deterrence for Cyclist Encroachment
- Pedestrian-Centric Safety Solutions
- Smart, Scalable Integration of solution into existing systems

Productivity Improvements



Projected Impact

