

CONFIDENTIAL

AT Technology Update

Recommendation

That the Board:

- i. Note the AT Technology Update.



Executive summary

The AT Technology Update, included as Attachment 1, will be presented as part of this agenda item. This will include the Journey Planner, which is now beginning to incorporate some first and last leg details; the Tamaki Ngapipi CCTV project, which will aid in traffic management; and the AT Labs and Developer Portal project.

Attachments

Attachment Number	Description
1	AT Technology Update Presentation

Document ownership

Submitted and Recommended by	Roger Jones Chief Technology Officer	
Approved for submission	David Warburton Chief Executive	

Technology Update

Roger Jones, CTO

25 October 2016



Journey Planner Update

- Currently in Test
- Uber fare information instead of walking component
- Blue Bubble will also be available



Bus Train Ferry



Cycling & Walking



Driving & Parking

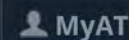


Projects & Roadworks



About us

Contact us



Log in or register

We are improving the journey planner. [Find out about the changes](#) or [tell us what you think](#).

Change search

Britomart Place, Auckland Central to 1 Remuera Road, Newmarket

Departs at 3:51 pm 14min

WEST HOP \$1.80

HOP \$1.80 | \$0.99 (child) | \$1.28 (tertiary)

Cash \$3.00 | \$2.00 (child)

Britomart Place, Auckland Central



209 metres, 3 min

Walk to Britomart Train Station

3:54 pm

WEST
Britomart Train Station To Swanson Train Station
AT Metro

Departs from Britomart Train Station

Stop 133

4:02 pm

Arrives at Newmarket Train Station

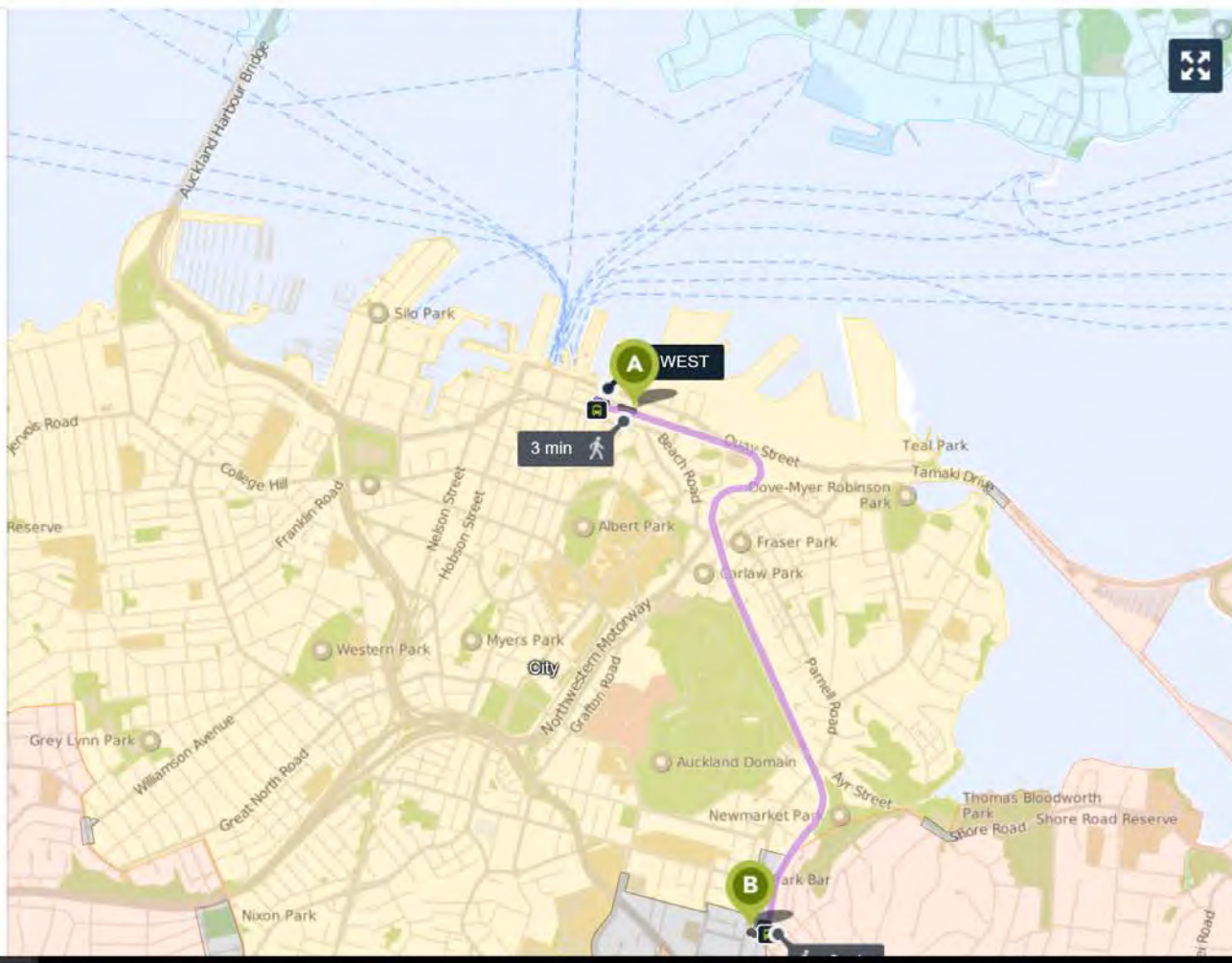
Stop 115

Newmarket Train Station



182 metres, 3 min

Walk to 1 Remuera Road, Newmarket





Bus Train Ferry



Cycling & Walking



Driving & Parking



Projects & Roadworks



About us

Contact us



MyAT Log in or register

We are improving the journey planner. [Find out about the changes](#) or [tell us what you think](#).

Change search

Britomart Place, Auckland Central to 1 Remuera Road, Newmarket

Departs at 3:51 pm 14min

WEST HOP \$1.80

HOP \$1.80 | \$0.99 (child) | \$1.28 (tertiary)

Cash \$3.00 | \$2.00 (child)

UBER

Britomart Place, Auckland Central
TO Britomart Train Station

2 min

- uberX™ \$12
- UberXL \$19 - \$20
- uberASSIST \$12

Departs from Britomart Train Station
Stop 133
4:02 pm
Arrives at Newmarket Train Station
Stop 115

Newmarket Train Station

- **182 metres, 3 min**
- Walk to 1 Remuera Road,
- Newmarket



Tamaki Ngapipi CCTV Update

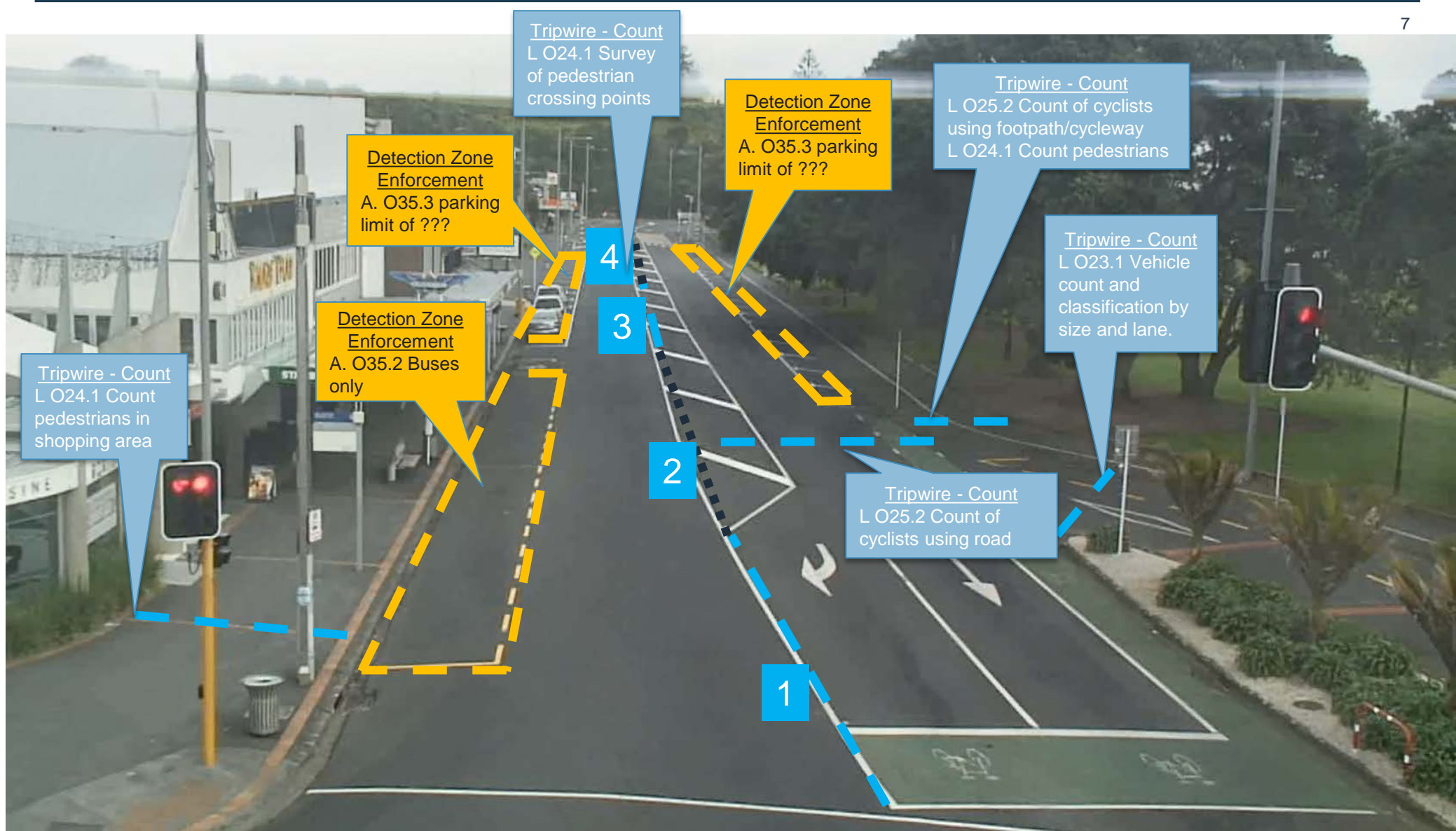
- Project
 - Initially for traffic management, especially in summer
 - Business case failed
 - Picked up, included safety, traffic time, congestion monitoring, traffic counting made business case worthwhile
 - 3 months from start to finish –
 - \$150,000 total cost
 - 23 CCTV Cameras

Tamaki Ngapipi CCTV



Tamaki Ngapipi New - High Level CCTV Design v3.2



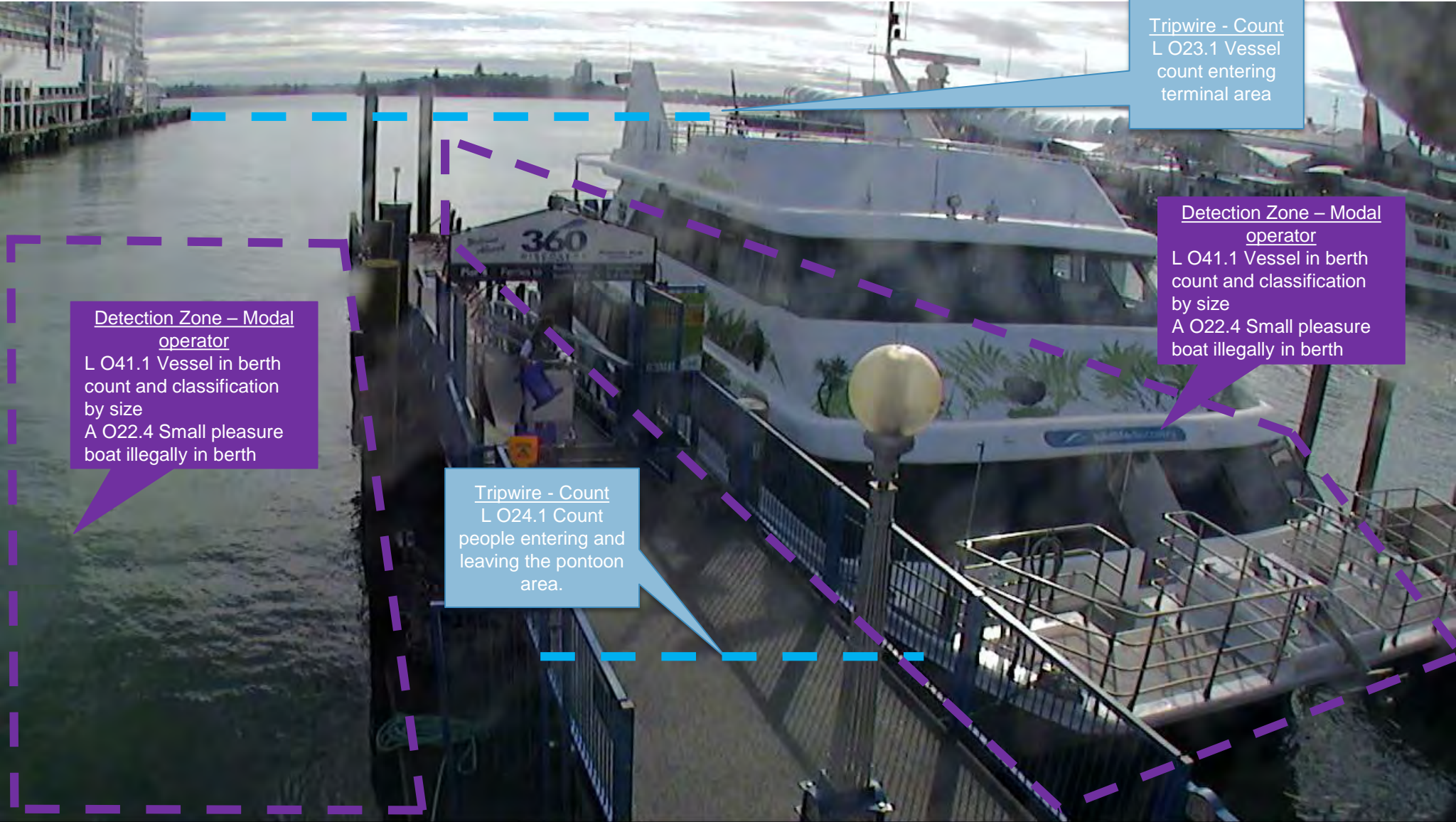


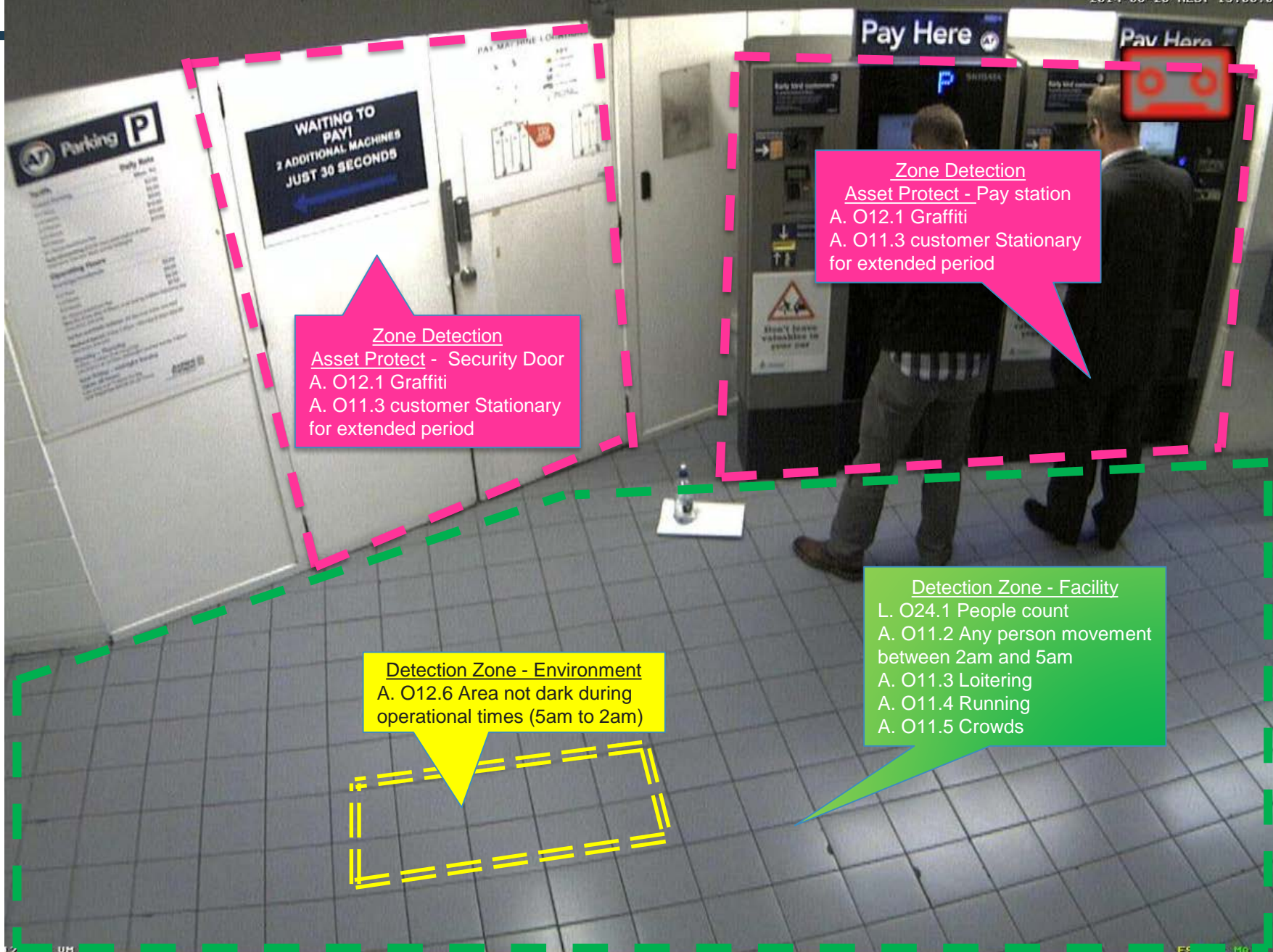
Tripwire - Count
L O23.1 Vessel
count entering
terminal area

Detection Zone – Modal
operator
L O41.1 Vessel in berth
count and classification
by size
A O22.4 Small pleasure
boat illegally in berth

Detection Zone – Modal
operator
L O41.1 Vessel in berth
count and classification
by size
A O22.4 Small pleasure
boat illegally in berth

Tripwire - Count
L O24.1 Count
people entering and
leaving the pontoon
area.





Zone Detection
 Asset Protect - Security Door
 A. O12.1 Graffiti
 A. O11.3 customer Stationary for extended period

Zone Detection
 Asset Protect - Pay station
 A. O12.1 Graffiti
 A. O11.3 customer Stationary for extended period

Detection Zone - Environment
 A. O12.6 Area not dark during operational times (5am to 2am)

Detection Zone - Facility
 L. O24.1 People count
 A. O11.2 Any person movement between 2am and 5am
 A. O11.3 Loitering
 A. O11.4 Running
 A. O11.5 Crowds



Tripwire - Count
L O23.1 Vehicle
count and
classification by
size and lane.

Tripwire - Count
L O23.1 Vehicle
count – Motorcycle
access

Detection Zone Traffic
A. O22.4 Stationary
Vehicle for extended
time

Zone Detection Asset
Protect – Barrier Arm
A. O12.2 Monitor barrier
arm is operational

Detection Zone Traffic
A. O22.4 Stationary
Vehicle for extended
time

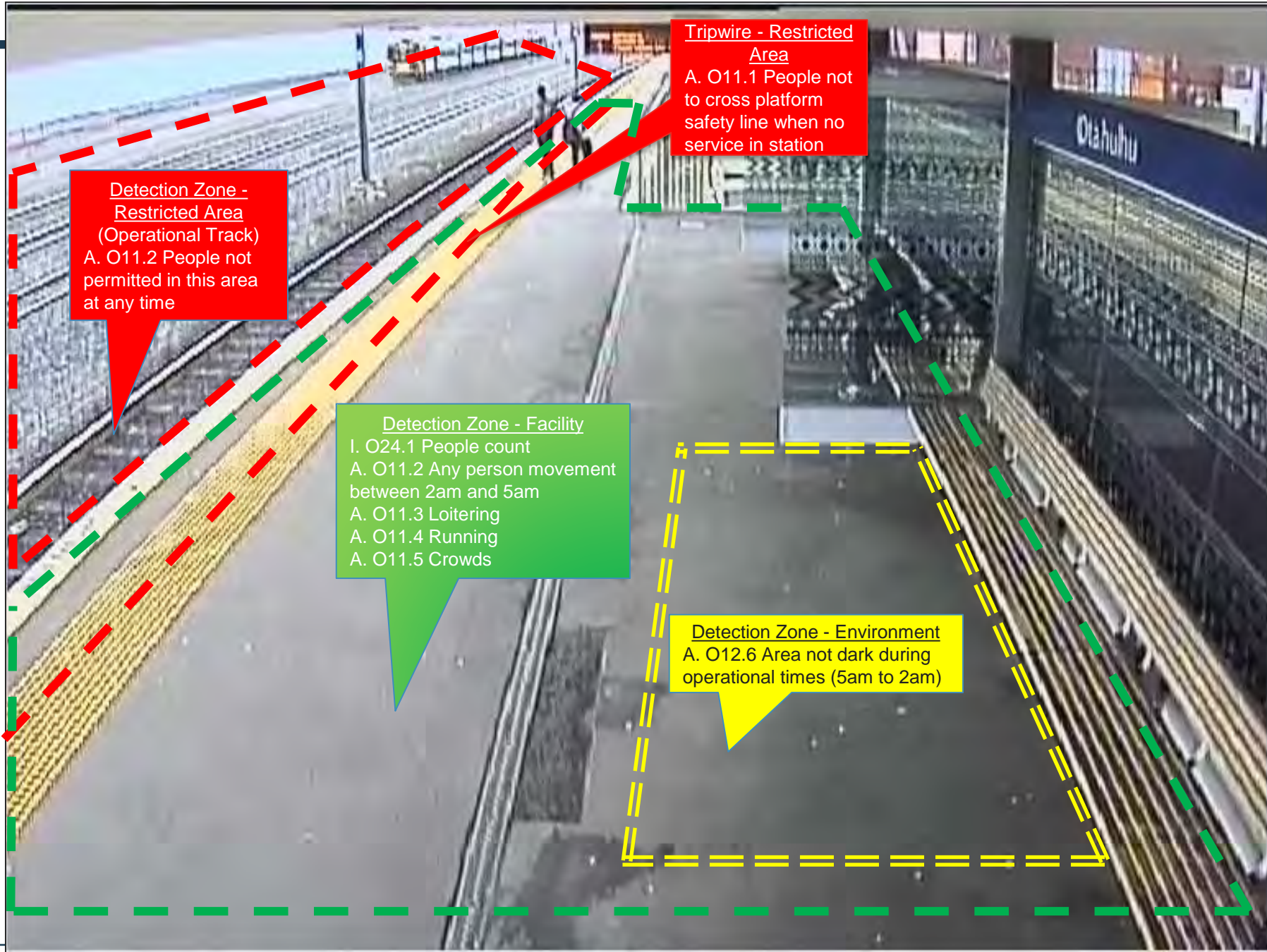
Tripwire - Count
L O23.1 Vehicle
count and
classification by
size and lane.

Detection Zone - Facility
A. O11.2 Any person movement
between 2am and 5am
A. O11.3 Loitering
A. O11.4 Running
A. O11.5 Crowds

ANPR
L O23.2 Vehicle
Identification

619463 VM UC

FS REC TH



Detection Zone - Restricted Area (Operational Track)
 A. O11.2 People not permitted in this area at any time

Tripwire - Restricted Area
 A. O11.1 People not to cross platform safety line when no service in station

Detection Zone - Facility
 I. O24.1 People count
 A. O11.2 Any person movement between 2am and 5am
 A. O11.3 Loitering
 A. O11.4 Running
 A. O11.5 Crowds

Detection Zone - Environment
 A. O12.6 Area not dark during operational times (5am to 2am)



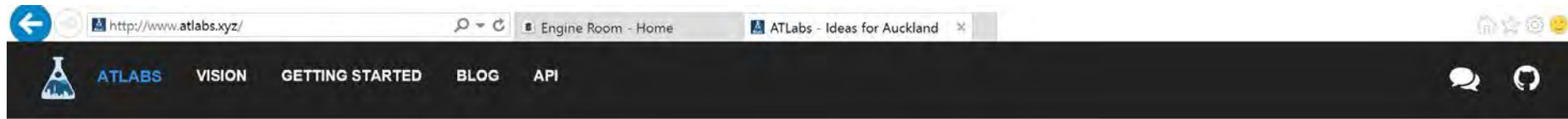
AT Labs

- New access and functionality for development community.
- Ability to put concepts required out to development community, with code if available, time-frame to complete and options of rewards for successful outcome.
- Open Source development, T&Cs to be developed and QA process of submitted code to be finalised

The screenshot shows a web browser at the URL <http://www.atlabs.xyz/>. The page features a dark blue background with a blurred image of people in a laboratory setting. The main heading is "TEAM UP" in large white letters, with the subtext "to create what's next for Auckland" below it. The navigation menu includes "ATLABS", "VISION", "GETTING STARTED", "BLOG", and "API". There are three main content cards, each with a blue circular icon and a button:

- Latest Apps**: Icon of a cloud with a download arrow. Text: "Check out some of the latest apps being cooked up...". Button: "LEARN MORE".
- Get Involved**: Icon of three people. Text: "Have a great idea for an app? Can you design, code, or test? We need your help...". Button: "GET STARTED".
- T-PRIZE**: Icon of a dollar sign. Text: "Solve some of our most interesting problems for fame (and money...)". Button: "COMING SOON".

At the bottom center, there is a small logo for "Sponsored by AT".



Be Empowered

to make change happen



Join a project

Improve an existing app or start something entirely new...



View Issues

Known issues just begging for your attention...



Discuss

Need some help, got a query, or just want to share?



Getting started

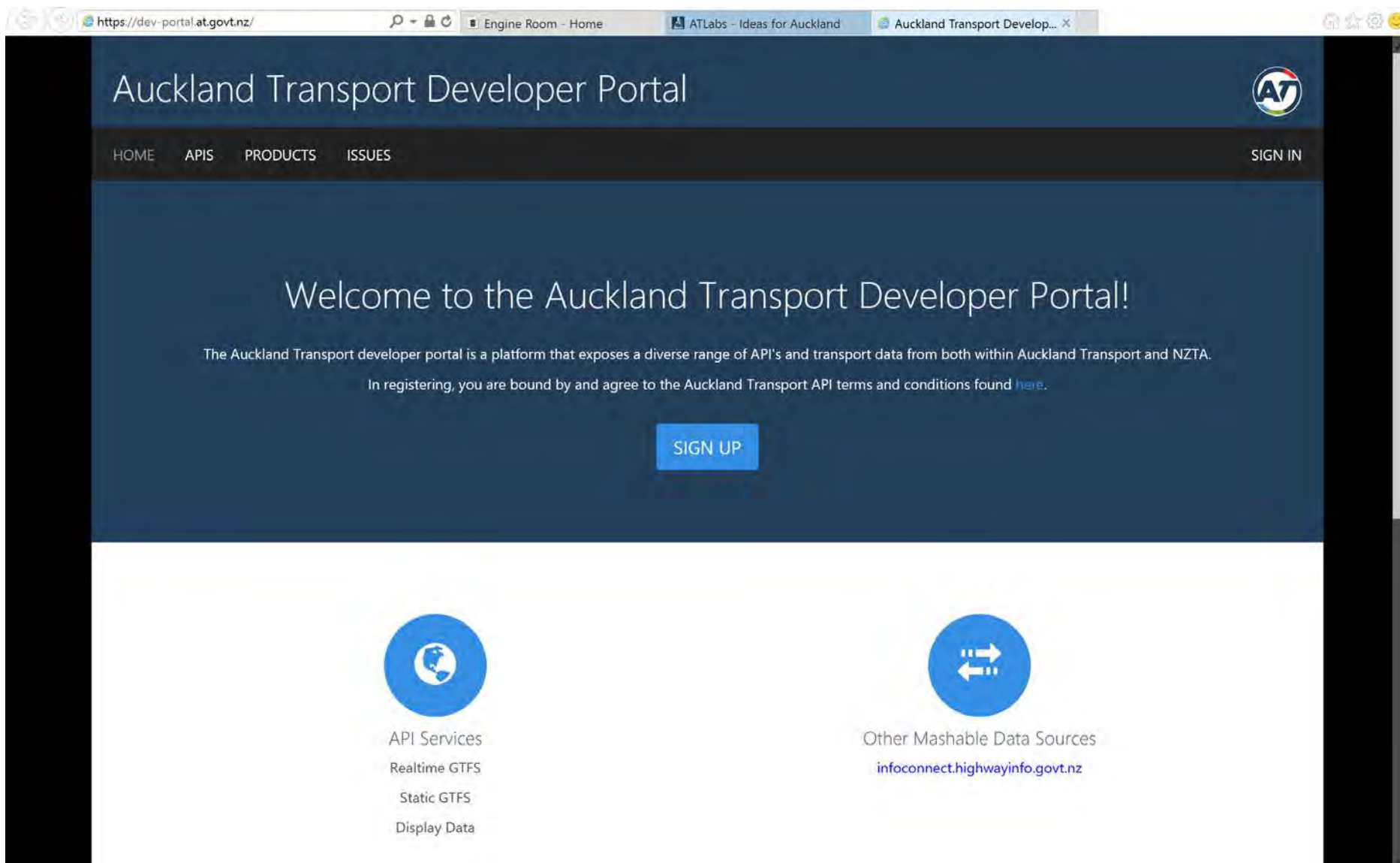
Learn more about transport APIs and other cool stuff...



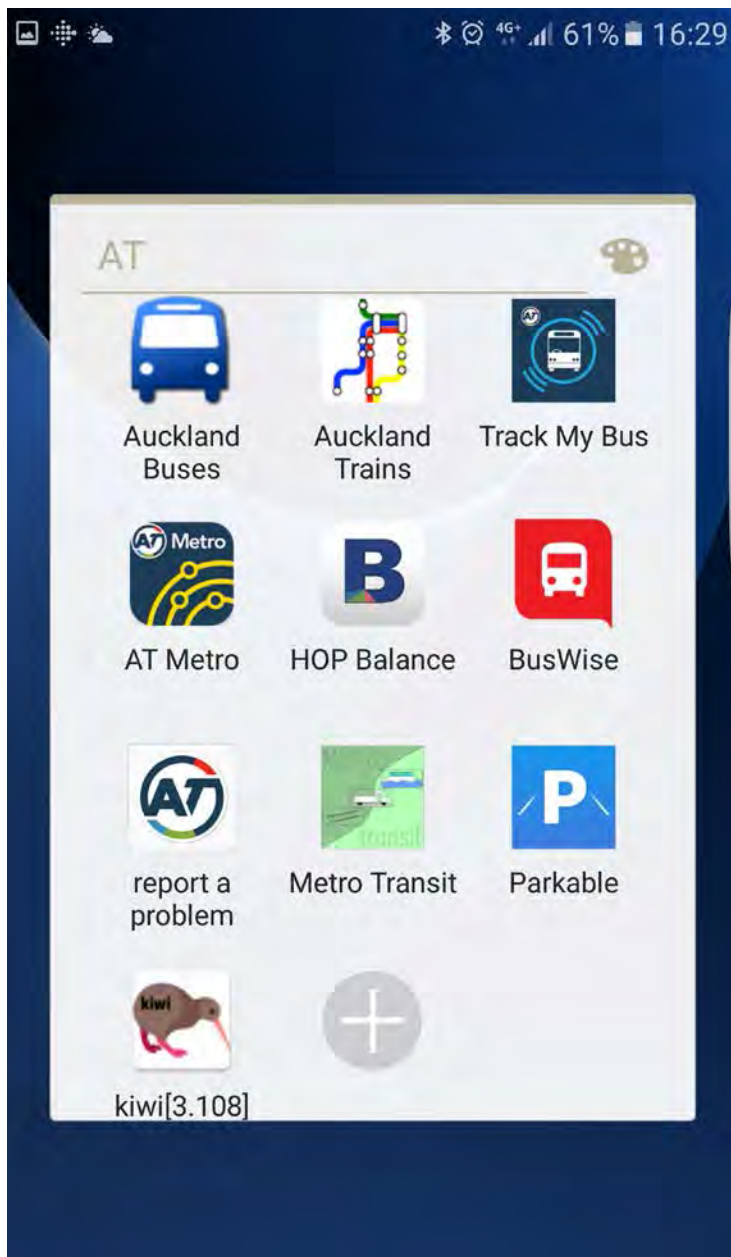
APIs

Transport APIs.





The screenshot shows a web browser window with the URL <https://dev-portal.at.govt.nz/>. The page title is "Auckland Transport Developer Portal". The navigation menu includes "HOME", "APIS", "PRODUCTS", "ISSUES", and "SIGN IN". The main content area features a large heading "Welcome to the Auckland Transport Developer Portal!" and a sub-heading "The Auckland Transport developer portal is a platform that exposes a diverse range of API's and transport data from both within Auckland Transport and NZTA. In registering, you are bound by and agree to the Auckland Transport API terms and conditions found [here](#)." Below this is a prominent blue "SIGN UP" button. The lower section of the page is divided into two columns. The left column, titled "API Services", lists "Realtime GTFS", "Static GTFS", and "Display Data". The right column, titled "Other Mashable Data Sources", lists the URL infoconnect.highwayinfo.govt.nz. The Auckland Transport logo is visible in the top right corner of the page and in the bottom right corner of the overall image.



Auckland Transport Mobile Apps (Android)

Only 3 developed by AT,
remainder by other developers.