

Begging -
how our Local
Hosts are helping

**Absolutely Positively
Wellington City Council**

Me Heke Ki Pōneke



SAFE CITY LIVING LAB

Using sensors to enhance a collaborative and localised approach to a safe city

The **BEGINNING** of the conversation

The Council and NEC - May 2014 formal agreement with the aim of exploring how technology (especially sensors) can support a safe city

Interest in progressing the planning of how technology can support solutions tailored to local issues and opportunities

Locally delivered project must be developed in collaboration with partners and key stakeholders

Stakeholder workshops identified themes of common interest which included:

- developing a mechanism for evidence based future planning

And

- a more informed and immediate way for situational responses to local incidences and concerns

And

- a way to understand and monitor movement of people

What is a living lab?

A collaborative initiative to explore benefits to business and community of using technology in a low risk way.

Provides the opportunity to test and change quickly – an iterative and agile approach to the development of the project.

complements existing and informing future planning and delivery of programmes and services.

Cuba Mall would provide a unique opportunity for a “Living Lab” approach



Using existing assets and sources of data and information - streamlined and integrated coupled with new sensory and analytical methods and technologies

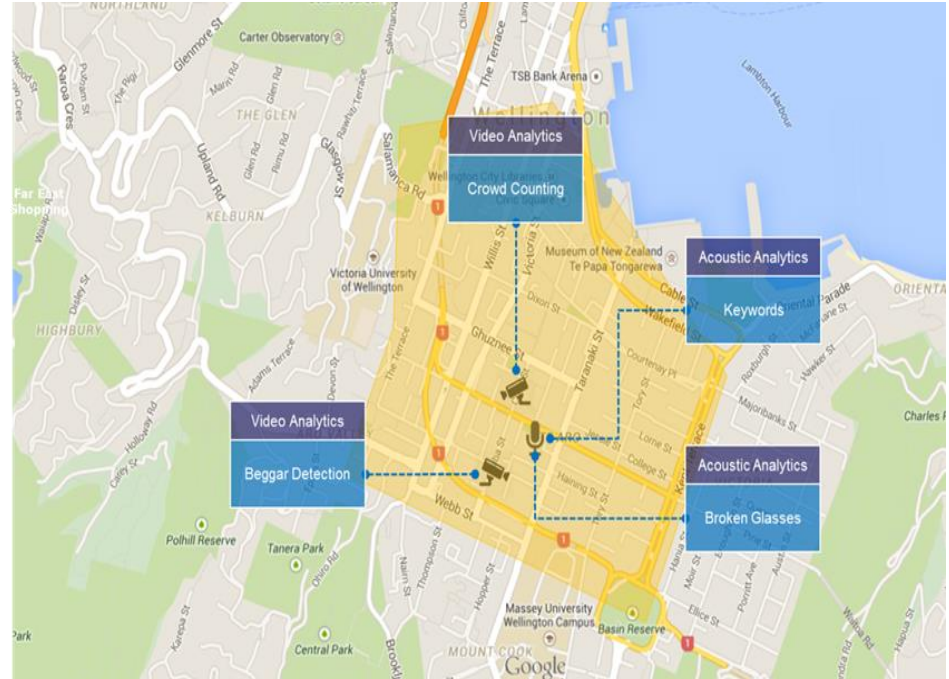
Use cases (analytics)

- Glass breaking
- Key word recognition
- Crowd detection
- Detection of beggars/rough sleepers
- Behavioural changes

Situational View – GIS Map

Overlay with:

- real-time alerts/detections
- information from external and internal data sources



Data Query

Select Layer Filters

Incident(s)

× Begging [Local Host]

× Begging [Confirm]

× Begging [CCTV]

× Begging [Kia Ora Newtown]

× Begging [Youth Host]

Point of Interest(s)

Select point(s) of interest...

Proximity

0

Observation Tag(s)

Select observation tag(s)...

Area(s)

Select area(s)...

Start Date

2016-03-31

End Date

2017-03-31

Start Time

00:00:00

End Time

23:59:59

Day(s)

Select day(s) of the week...

Age(s)

Select age(s)...

Gender(s)

Select gender(s)...

Ethnicity(ies)

Select ethnicity(ies)...

Visualisation

Heatmap

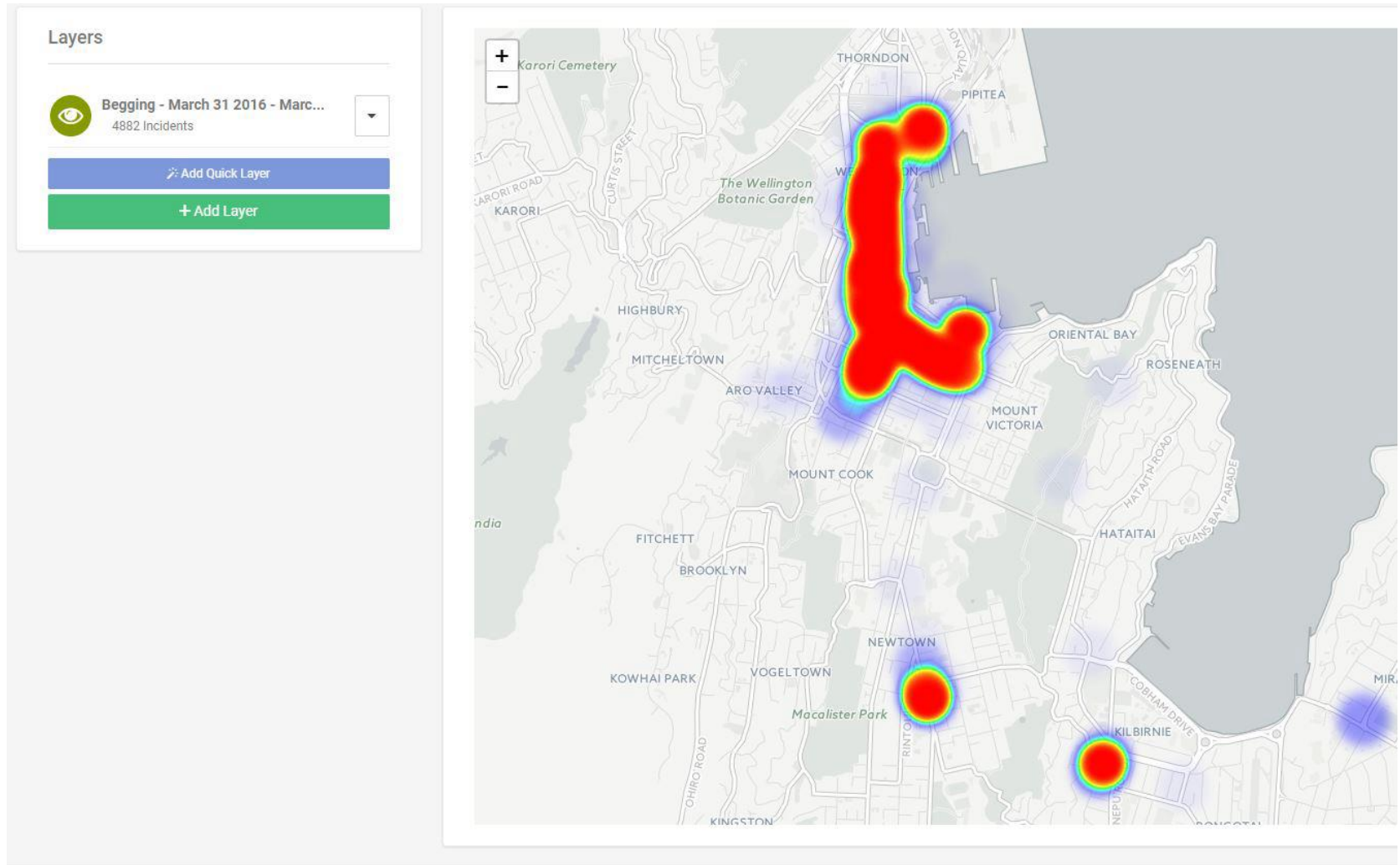
Layer Name

Begging - March 31 2016 - March 31 2017

Close

Create Layer

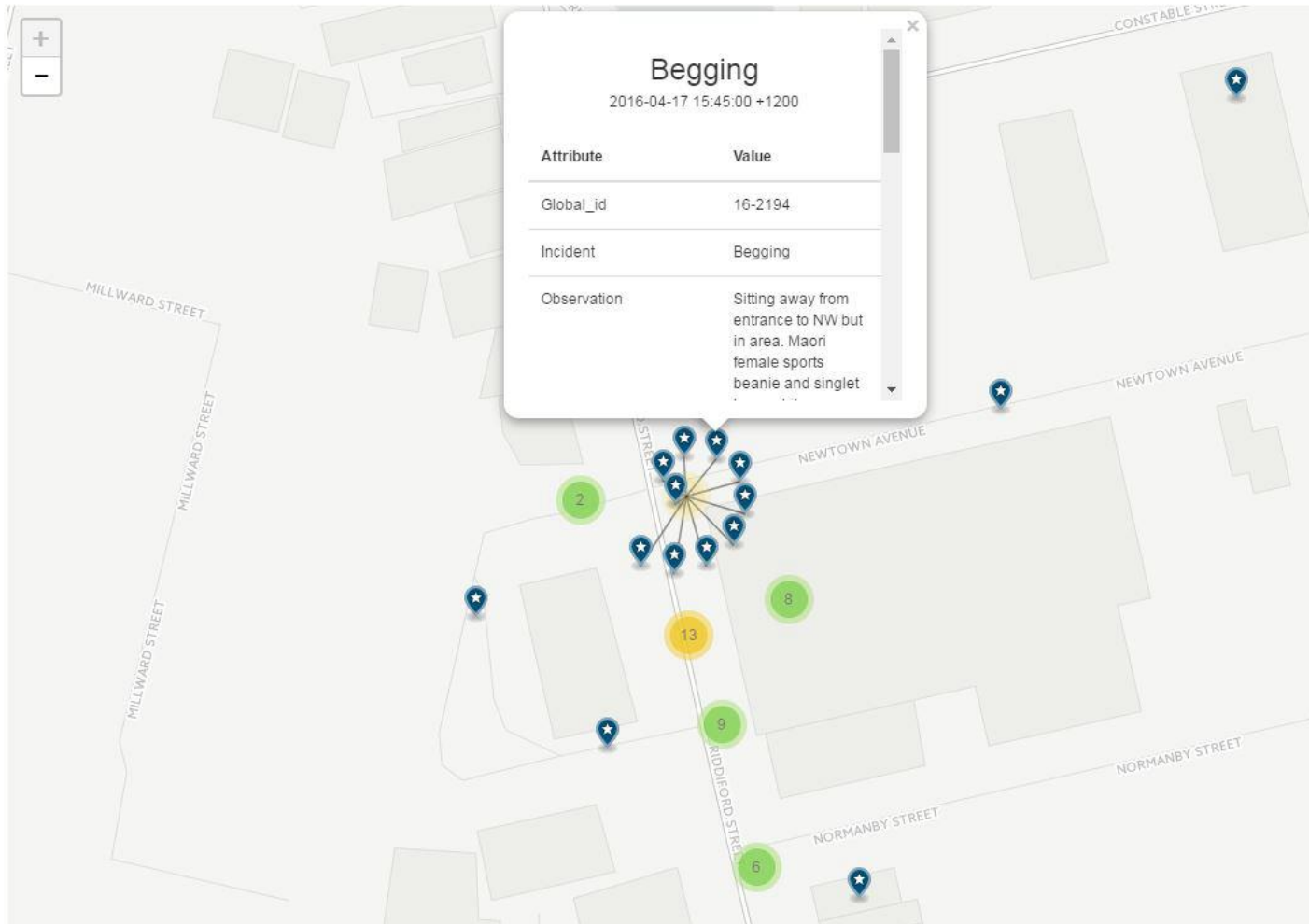
Begging: March 31 2016 – March 31 2017



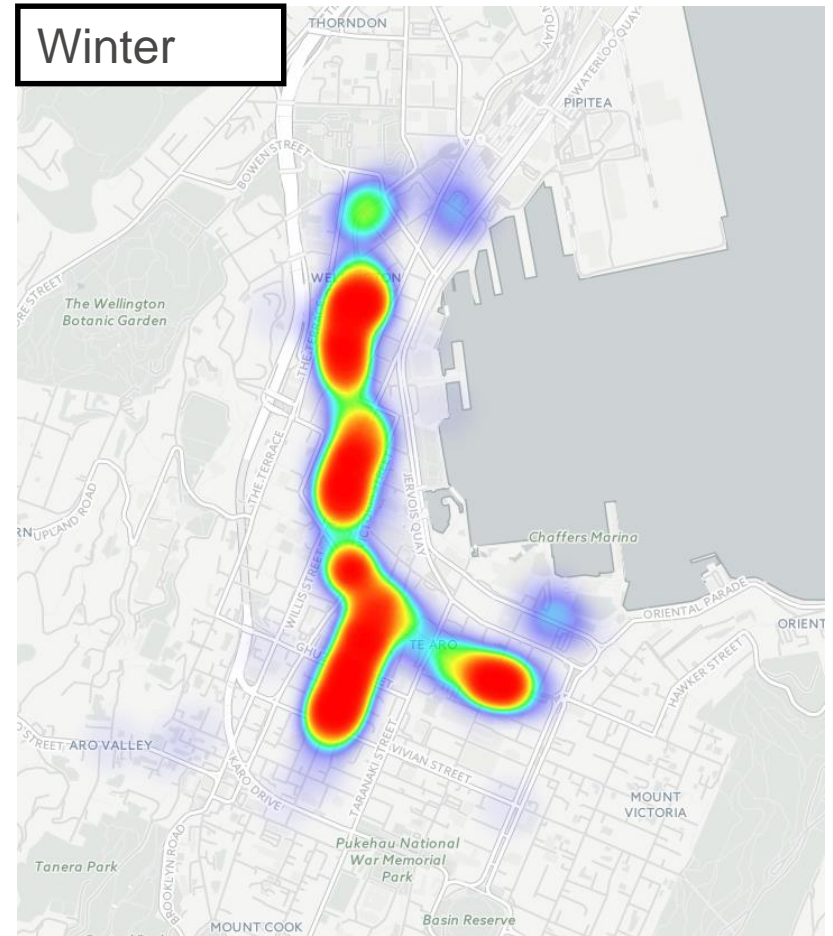
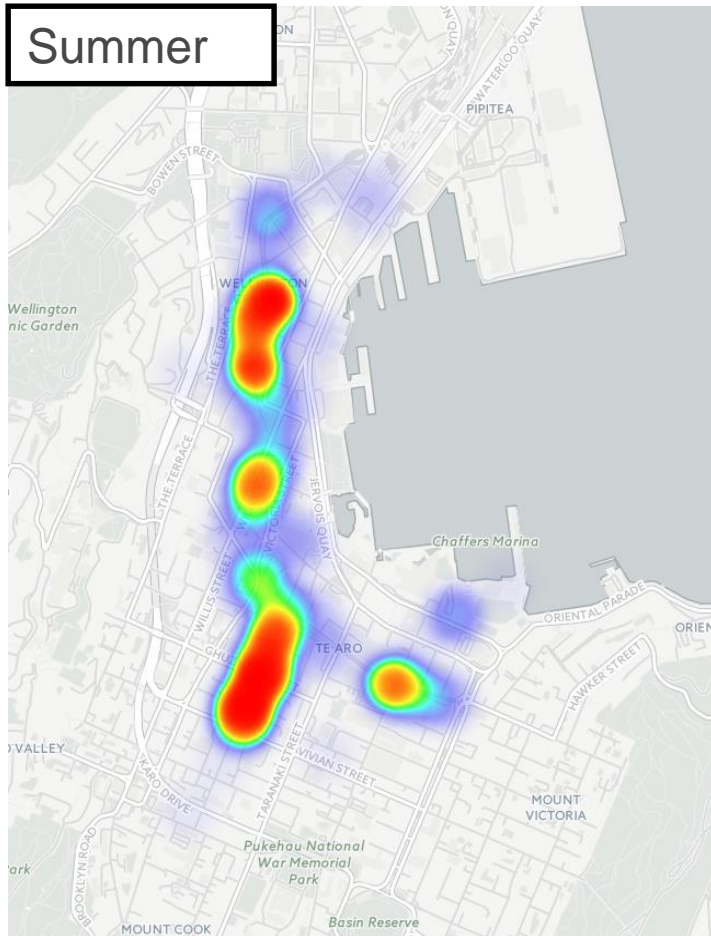
Begging – Newtown



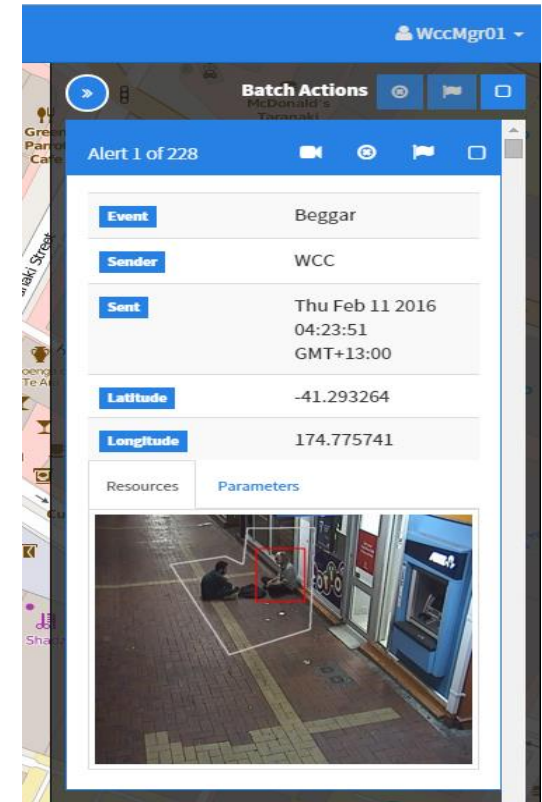
Metadata



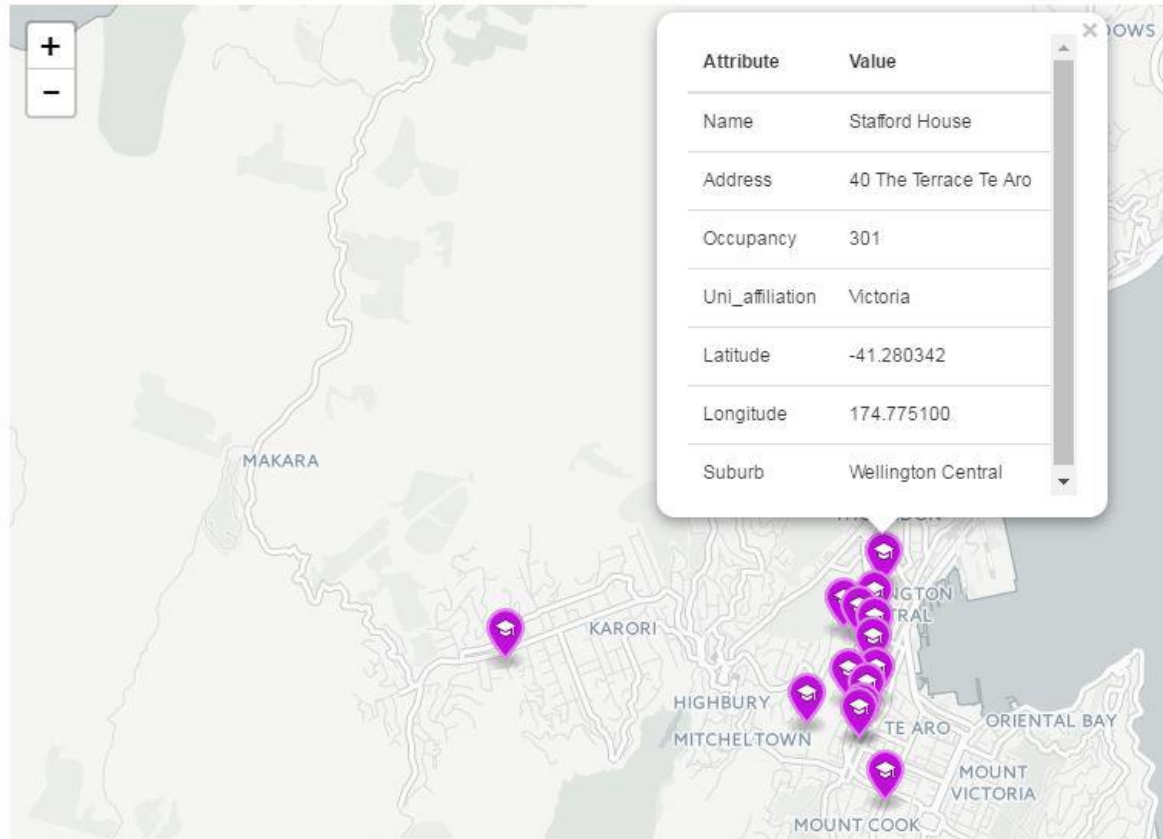
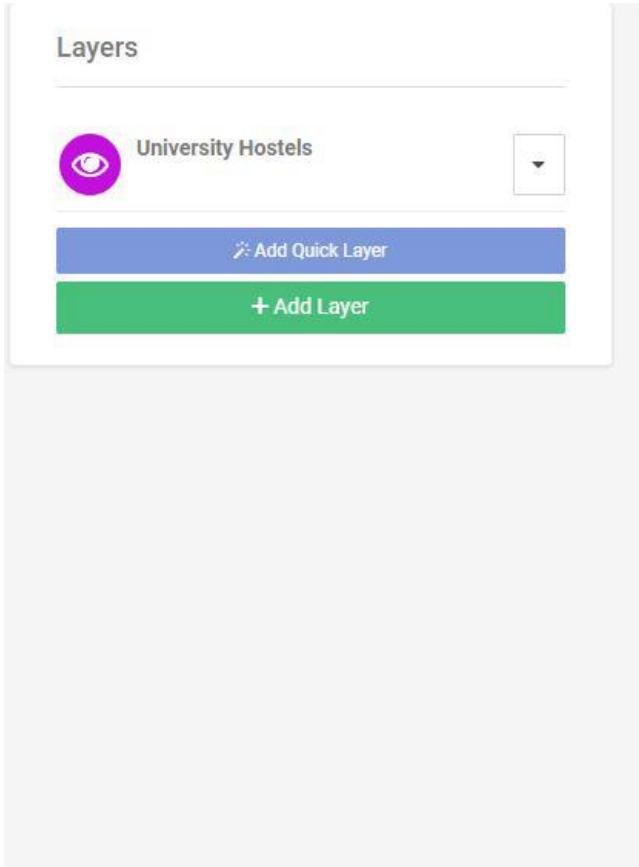
Begging: CBD Summer v Winter



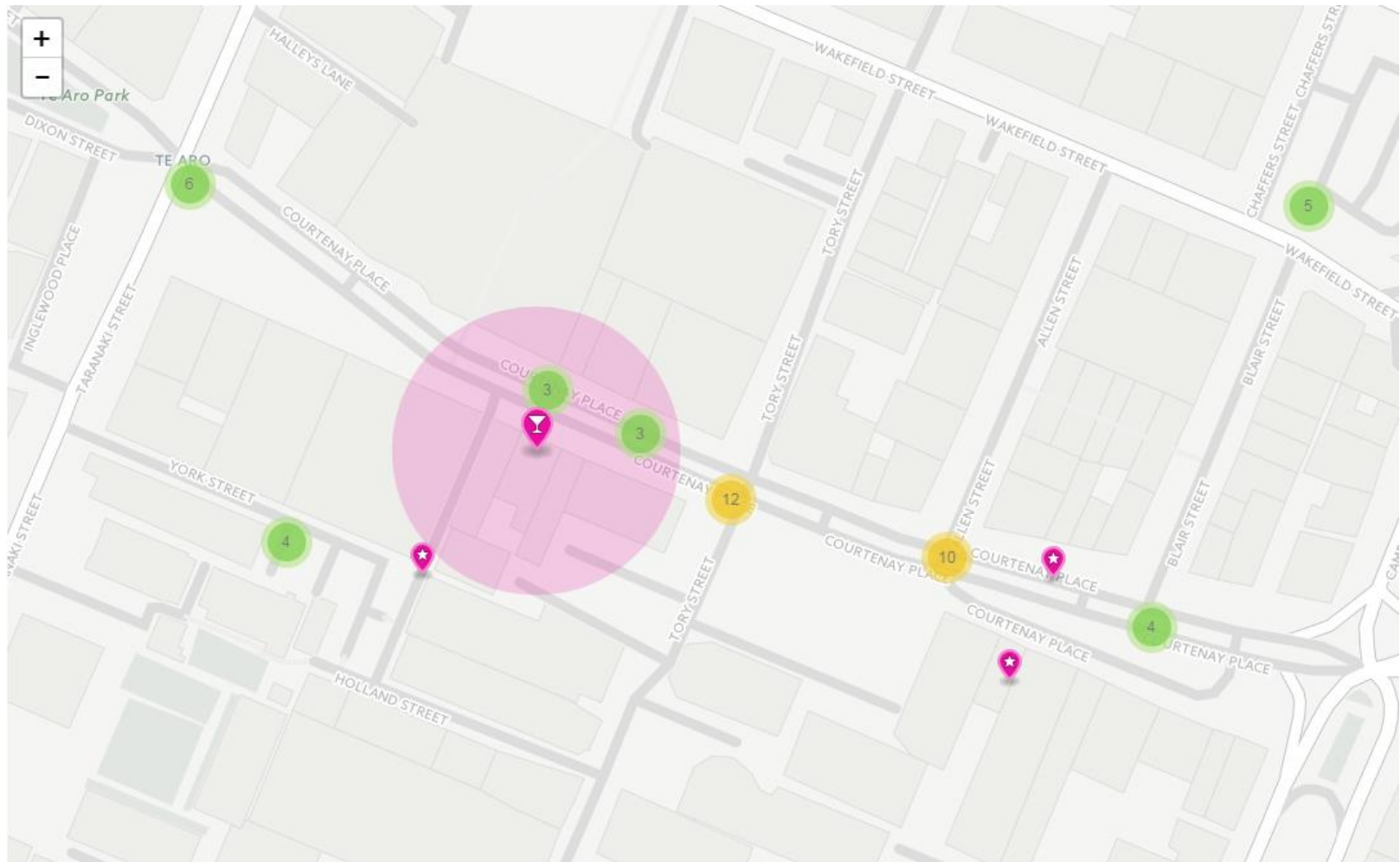
Analytic sensors and alerts



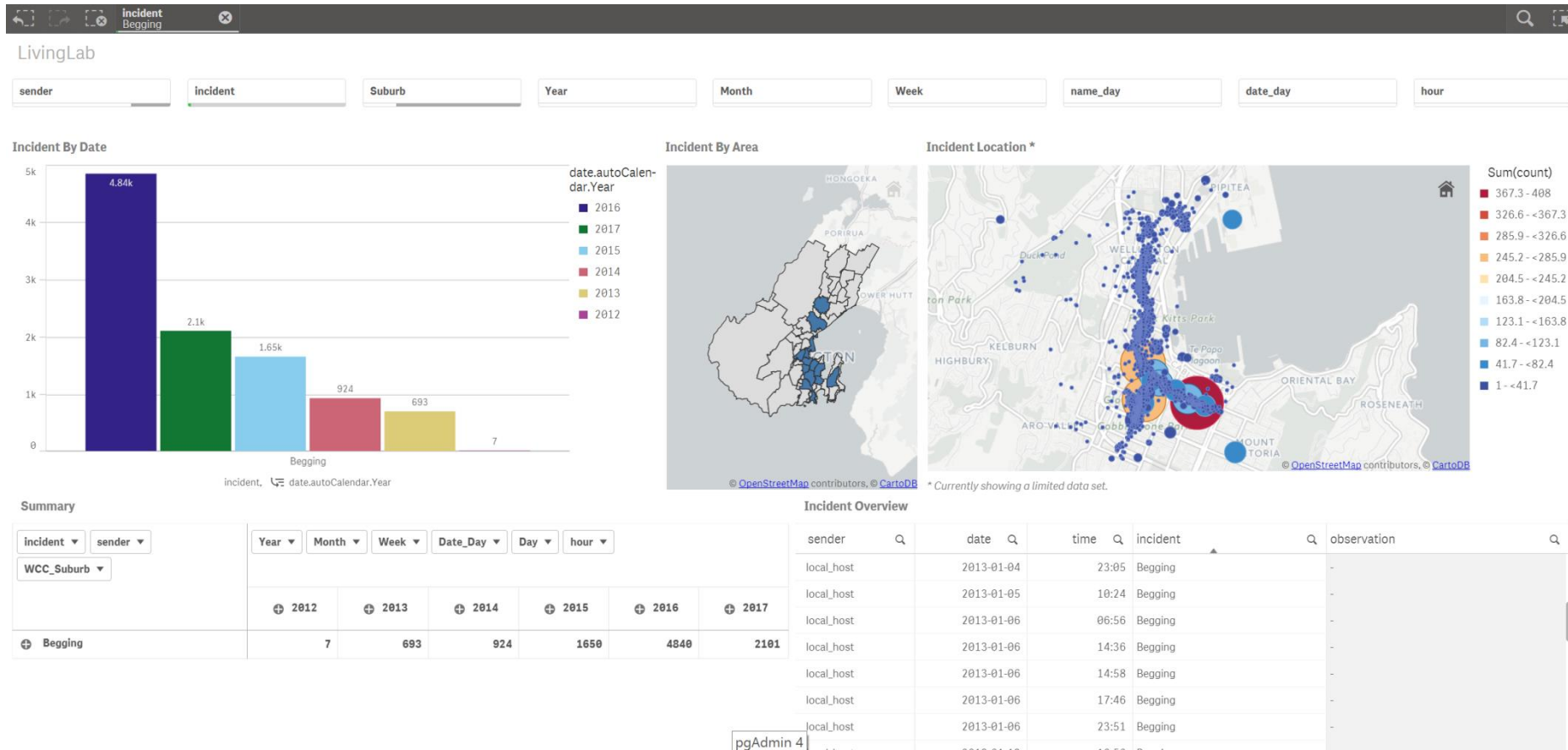
Static Layers



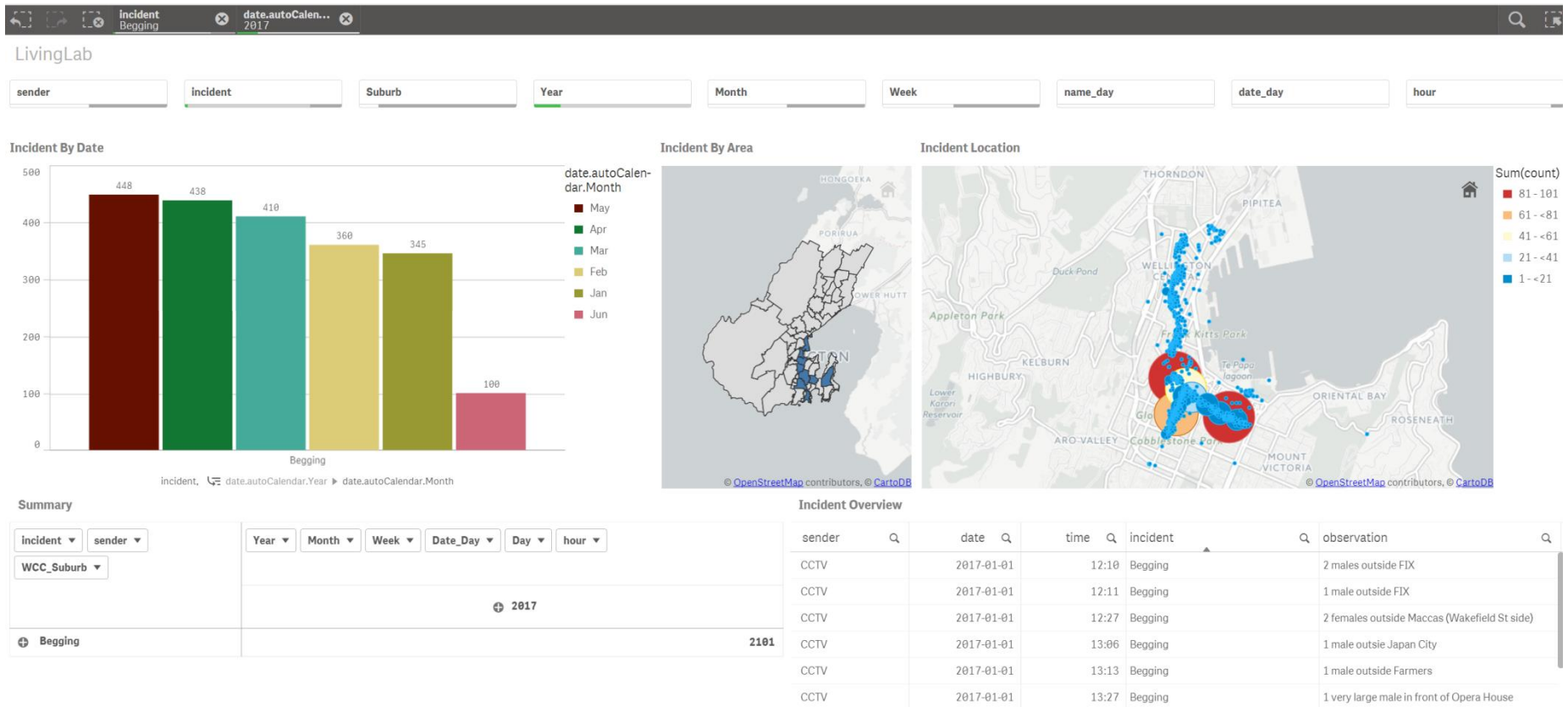
Reference point search



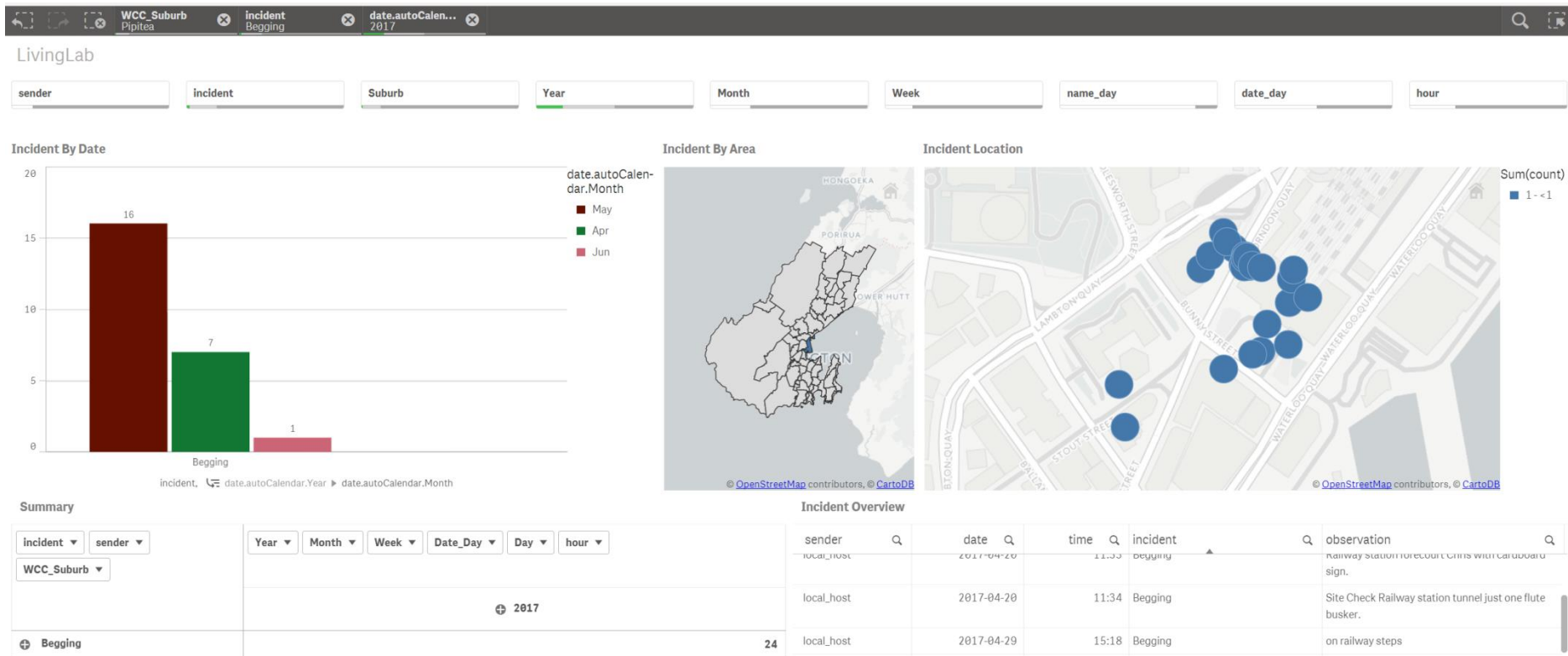
Business Intelligence Tools



Business Intelligence Tools



Business Intelligence Tools



People Counts and Flows

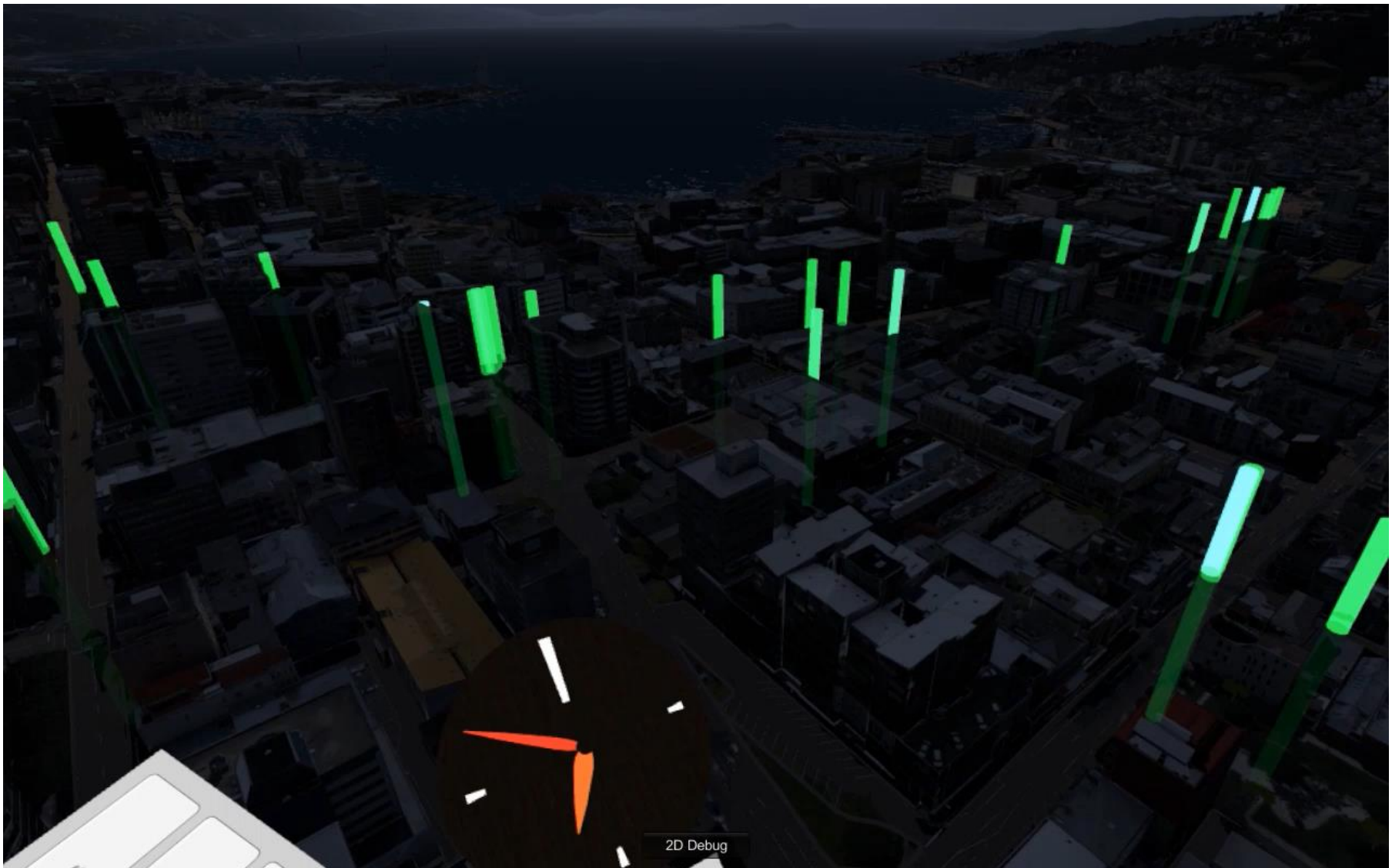


People Counts and Flows



City Model



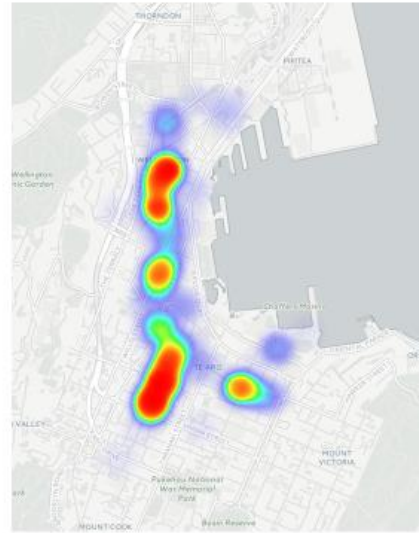


NEC

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But what is happening today ...

Distribution of locations for begging over summer and winter in the Central City



Winter: 1 June – 31 August 2016



Summer: 1 December 2016 – 28 February 2017



Live Demo

Counting Results

Incoming28831

Outgoing24745

Act. Fill Level0

Reset

Live Image



☒ Live Image

☒ Display AOI and Counting Lines

State Information

OSD StateOK

Light StateDark

Door Staten/a

Clear Zone-

Parameter SetValid