



# Ballm.AR

*Working title*

A First Responder System You Can  
Get Excited About

# Our Diverse Team



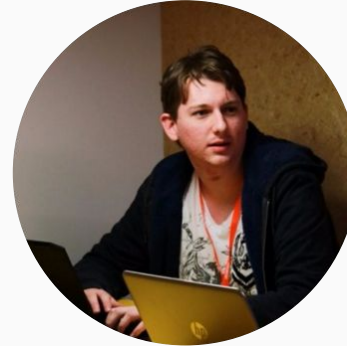
Nathan Glover

Computer Systems  
Engineer



Rico Beti

Software Developer



Stephen Mott

Mechanical Engineer



Luke Stokes

Mechatronics Engineer

Different **Backgrounds** | Unique **Ideas** | Better **Solutions**

# Picture This

Main water pipe has just burst

You're the **first person** to notice it

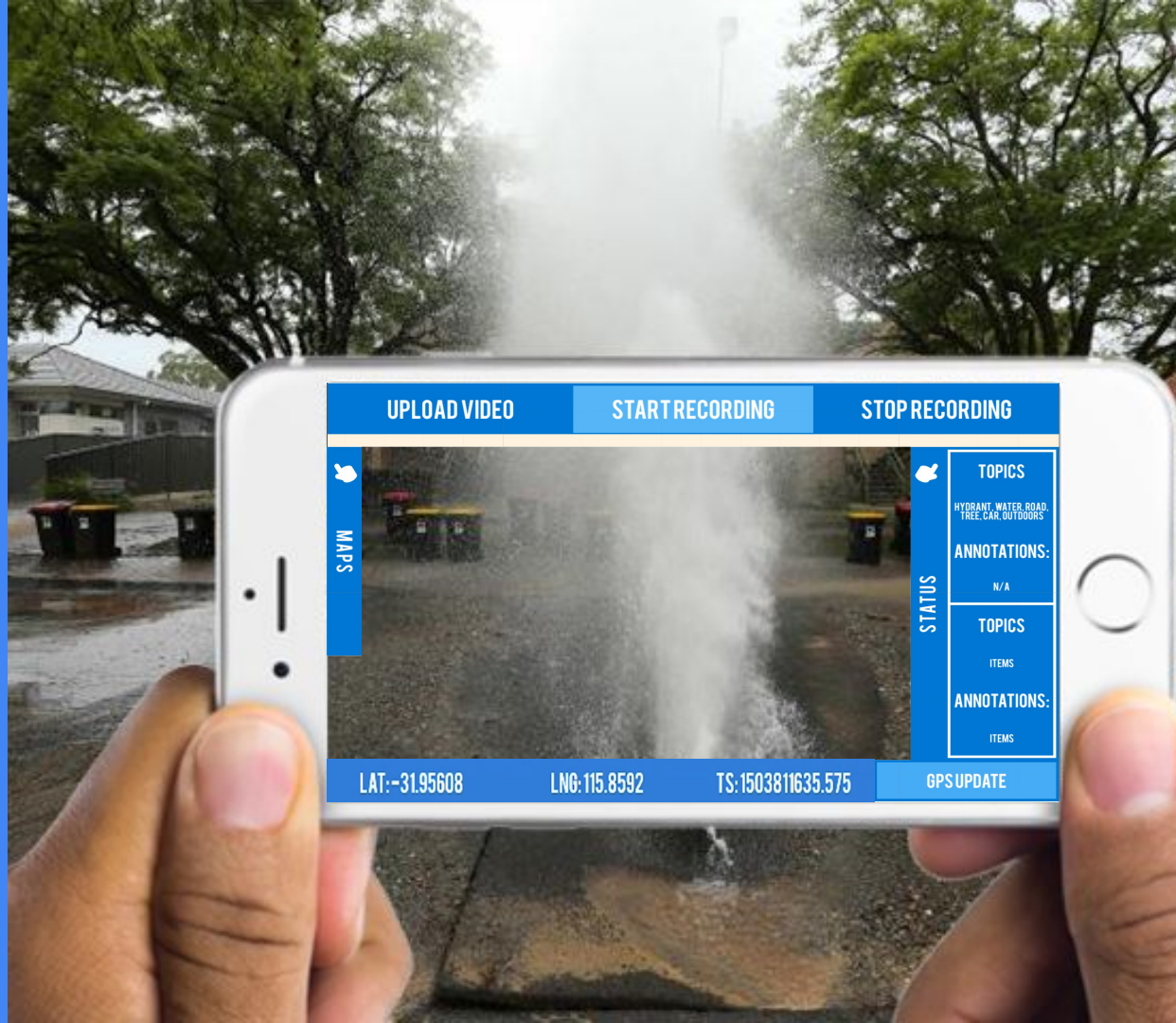
What do you do?



# Introducing

## Ballm.AR

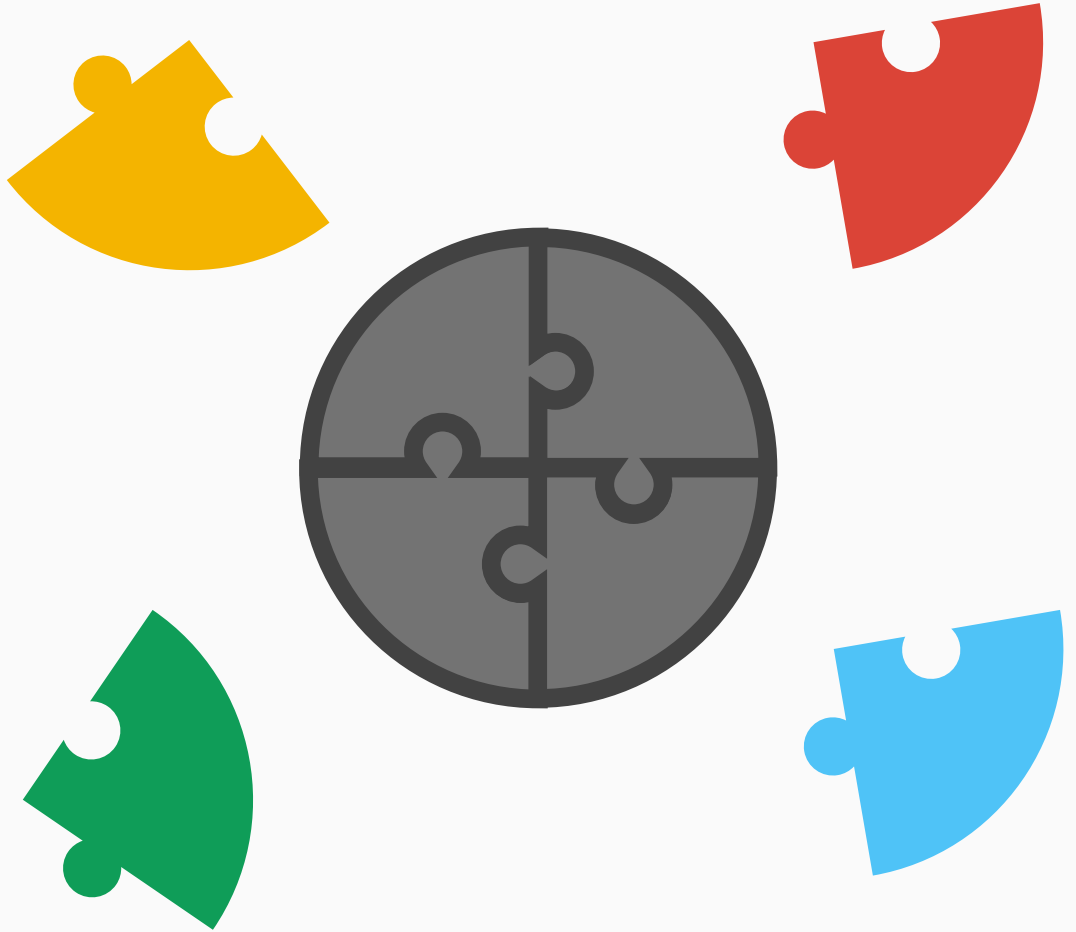
Fostering community involvement in the reporting and logging of significant events.



# Key Pieces

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So what are the **key pieces** addressed by our system?



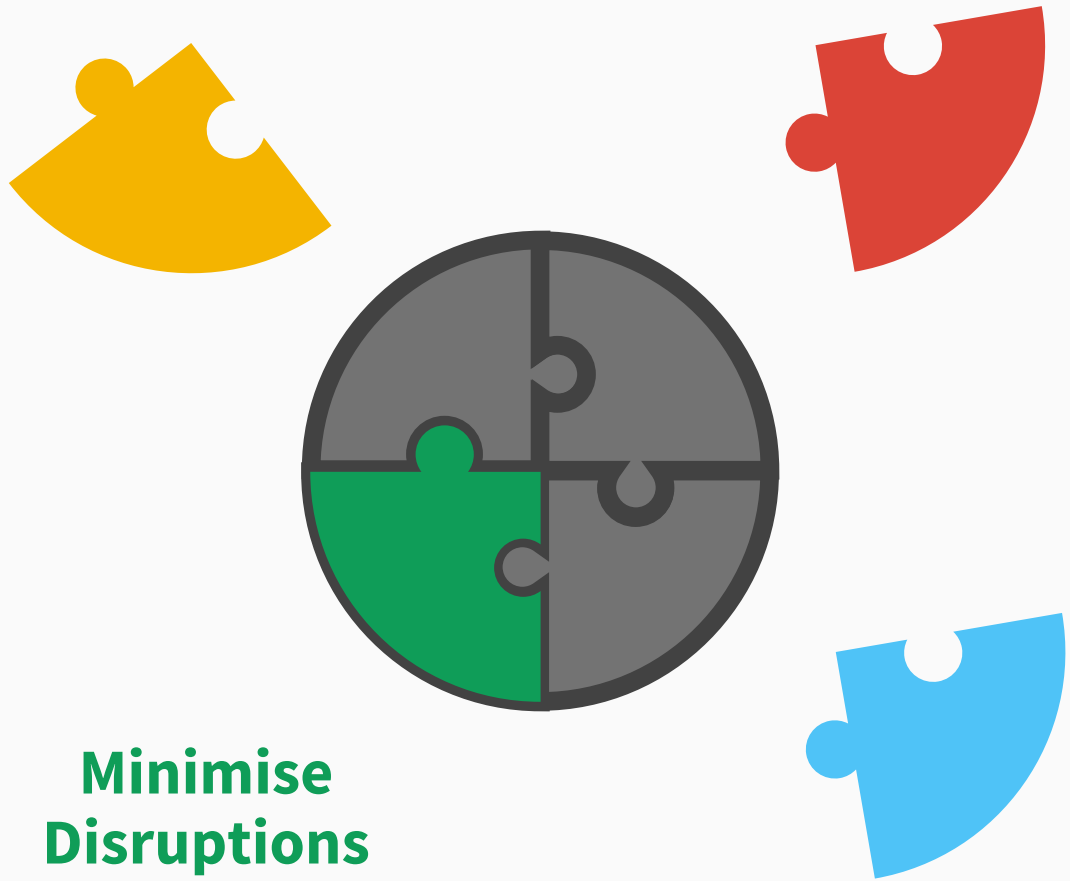
# Key Pieces

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Find the **best** resource

Find them in a **timely** manner

Service **prioritization**



**Minimise  
Disruptions**

# Key Pieces

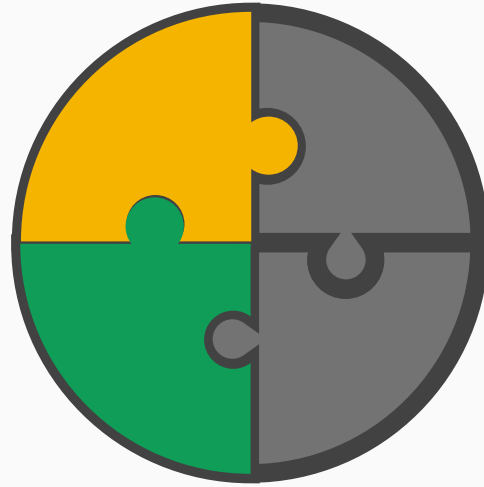
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**Empower** the first responders!

**Encourage** and **reward** community involvement

**Foster** a strong connection between people and their local townships.

**Community  
Input**



**Minimise  
Disruptions**

# Key Pieces

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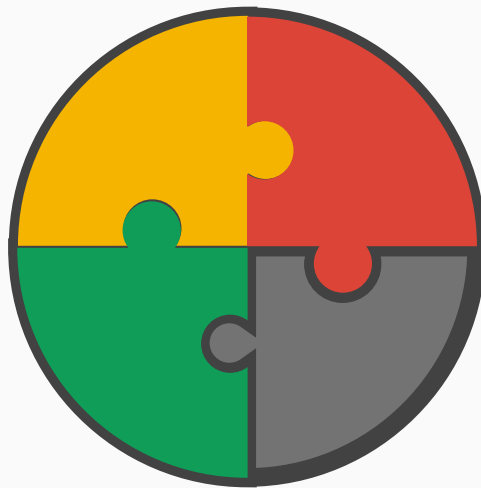
Utilize **realtime** utility  
datasets  
(<http://data.wa.gov.au/>)

**Traffic** and **geolocation**  
information

Harness **cloud** and **device**  
based **analytics**

**Community  
Input**

**Data Driven  
Decisions**



**Minimise  
Disruptions**





# Key Pieces

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Provide **safety** alerting based on analytics

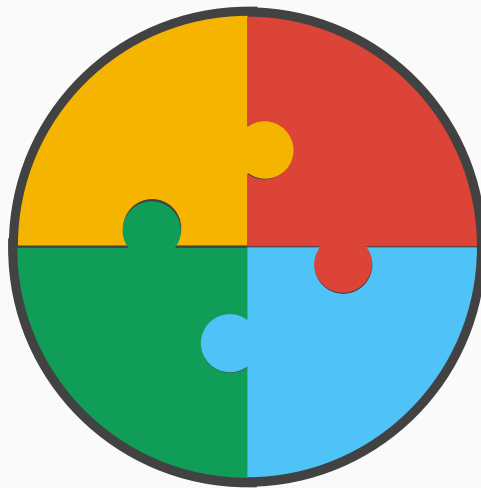
**Visual & Audio** warnings

**ETA** information

Optional **phone support** if situation is urgent

**Community  
Input**

**Data Driven  
Decisions**



**Minimise  
Disruptions**

**Instant  
Feedback**

# Ballm.AR (Working prototype)

## Map Display

Point of interest,  
hazard warnings,  
**traffic data**

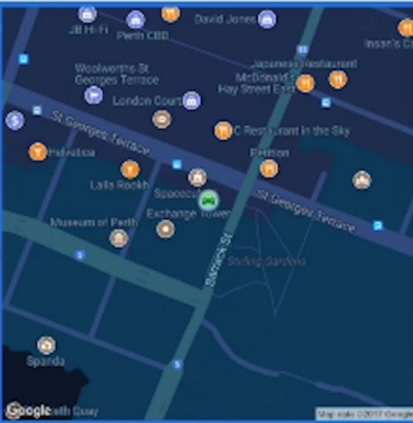
## Geo Locale

**Logged** with the  
incident


UPLOAD VIDEO

START RECORDING

STOP RECORDING



MAPS



STATUS

LAT:-31.95608

LNG:115.8592

TS:1503811635.575

GPSUPDATE

## Logging Controls

**Full video**  
**uploaded** when  
on WiFi

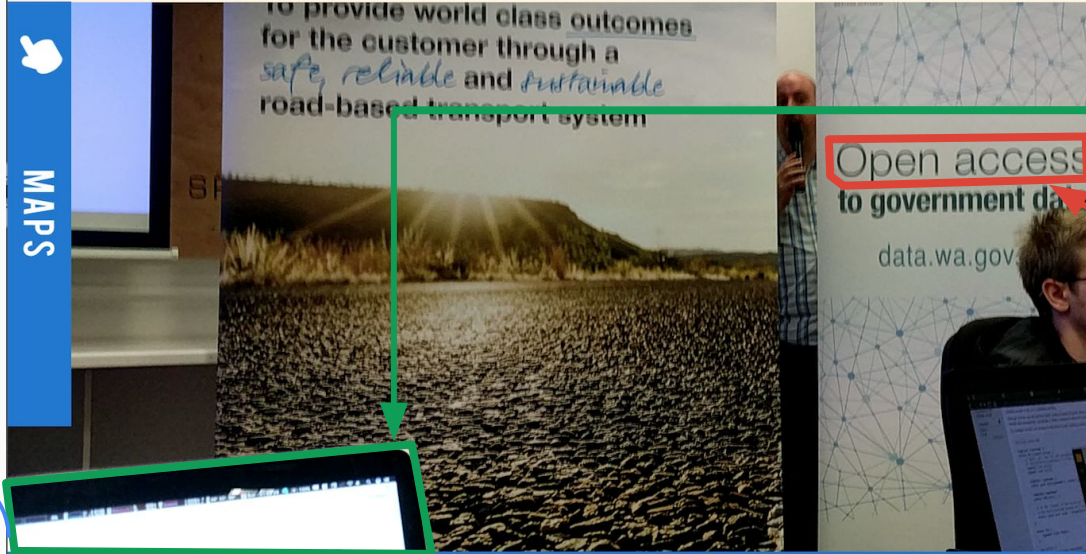
# Ballm.AR (Working prototype)

UPLOAD VIDEO

START RECORDING

STOP RECORDING

MAPS



STATUS

TOPICS  
DISPLAY, MONITOR, INDOOR,  
COMPUTER, SCREEN,  
ELECTRONICS

ANNOTATIONS:  
OPEN ACCESS, USER  
CHANNEL, TRANSPORT

TOPICS  
ITEMS

ANNOTATIONS:

LAT:-31.95608

LNG:115.8592

TS:1503813130.181

GPSUPDATE

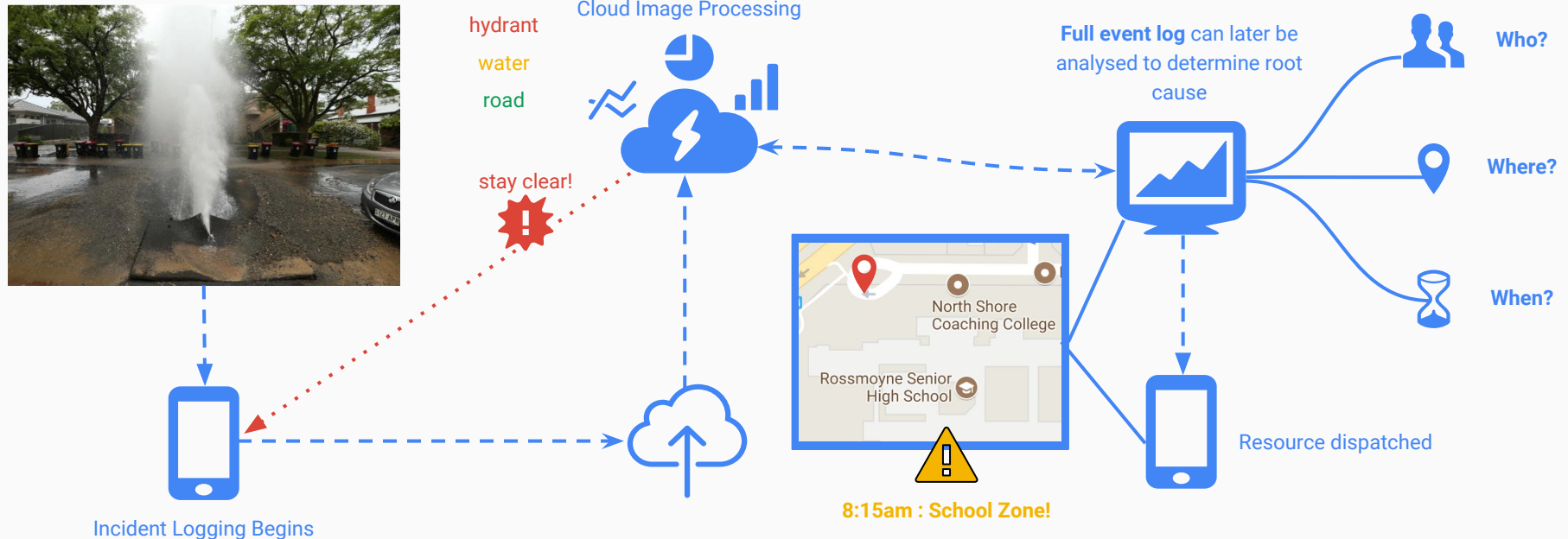
Items  
determine  
urgency

**Item based  
analysis** means  
alerts can be sent  
if certain items  
are in view

Item  
Recognition

**Frames**  
frequently sent  
and processed  
via **Microsoft  
Azure** computer  
vision suite.

# Typical Scenario



# Direction

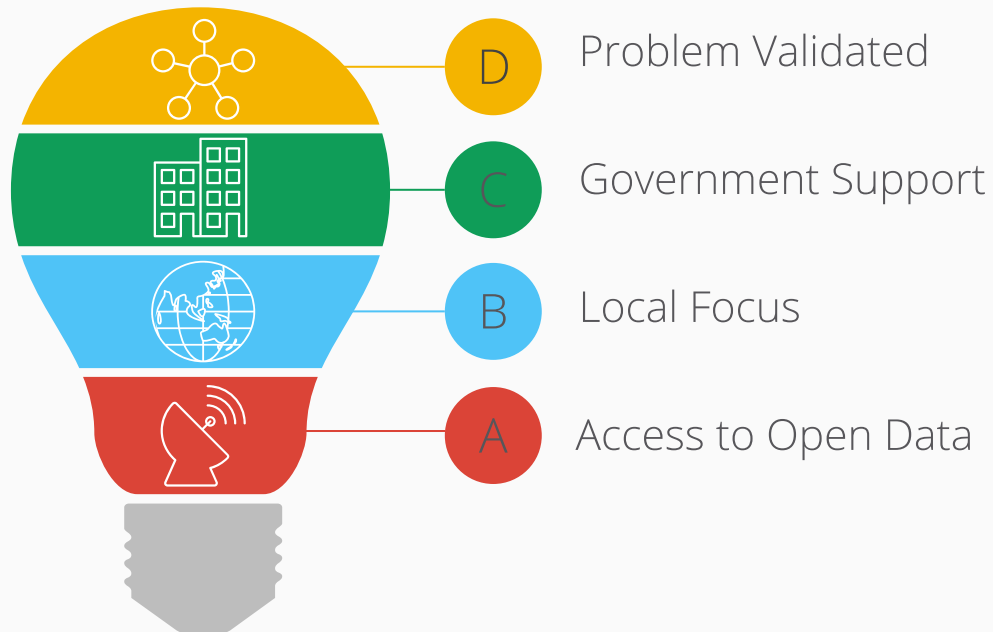
## Local Focus

- Strong **integration** with local government
- When **value** is identified, it will naturally spread

**Utilize** open data on [data.gov.au](https://data.gov.au)

## SPUR grant application

- Improved Government service to benefit community
- Reduced operating cost for Government sector



# Business Model

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## Software as a Service

- Existing SaaS tenders already accepted by Govt

## Lean startup

## Focus on **problem validators**

- Main Roads
- Watercorp



# Summary

## What we have done:

- Validated our problem (Watercorp / Main Roads WA)
  - Validated business model
  - Leveraging open data, while working to integrate non public datasets
  - Improved response times
  - Improved data logging and reporting capabilities
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