



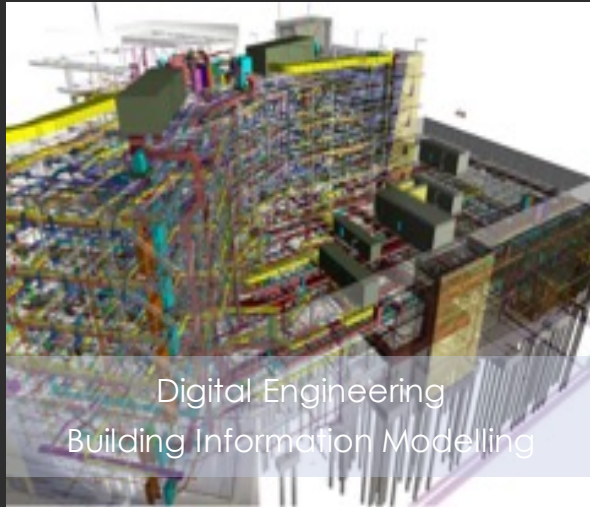
# From Here to Where, and How?

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# Technology is disrupting cities & industries



# The internet of everything is here



Collecting data from wireless  
sensors (things)

*...and then doing something  
meaningful with it.*





# Why all the fuss about IoT?



**6.4 billion** internet-connected devices in 2016

**46 billion** connected devices, sensors & actuators by 2021.

(Juniper Research 2016)



Potential global economic impact of IoT applications

**\$11.1 trillion** (USD) per year in 2025.

(McKinsey & Company 2015)



**\$116 billion**  
of potential upside to the  
Australian economy by 2025  
(IOTAA 2016)

A\$308 bn  
in 18 years.  
Average productivity  
improvements  
of around 2% p.a.  
(PWC/ACS 2018)

# IoT will create new jobs but will require new skills

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Data Scientists,

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Software & Systems Engineers,

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Full Stack Developers,

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Cyber Security Professionals

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Communications & Network Designers

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Cognitive Design

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Behavioural Scientists


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+

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Change Agents

**We need to be future fit!**



FLFET

fleet.space

South Australia is at the forefront of IoT

# Why are cities investing in IoT?

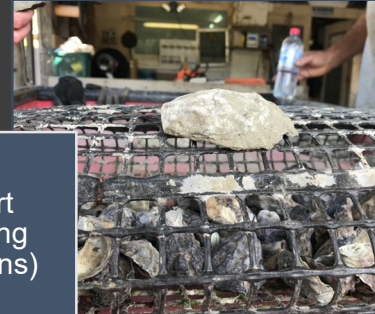
STEM



Economic  
Development  
& Jobs



Smart  
Farming  
(Regions)



Asset  
Management



Smart Water



Environment



Smart Cities



Safety &  
Security



Building critical digital infrastructure to support their communities to thrive.



# Smart Cities & Suburbs Program

- \$50 million program for collaborative & innovative smart city projects.
- \$28.5m awarded in Round 1 across 52 Projects
  - Air quality monitoring
  - Autonomous Vehicle Trials
    - Active transport
    - Smart Buildings
    - Smart Parking
  - People Counting
  - Energy Data Sharing
    - Waste Reduction
  - Integrated Water and Energy Systems
    - Environment Modelling
    - 3D City Modelling





# Enabling Principles to derive value

(community, business, industry, environment)

- Open source & standards based
- Interoperability
- Data sharing
- Co-creation

Minister Hon. Paul Fletcher MP



NATIONAL NSW LOCAL COUNCIL

## Tracked smartphones to tell the council how to fix our streets

By Jacob Sautwick  
26 April 2018 – 12:01am

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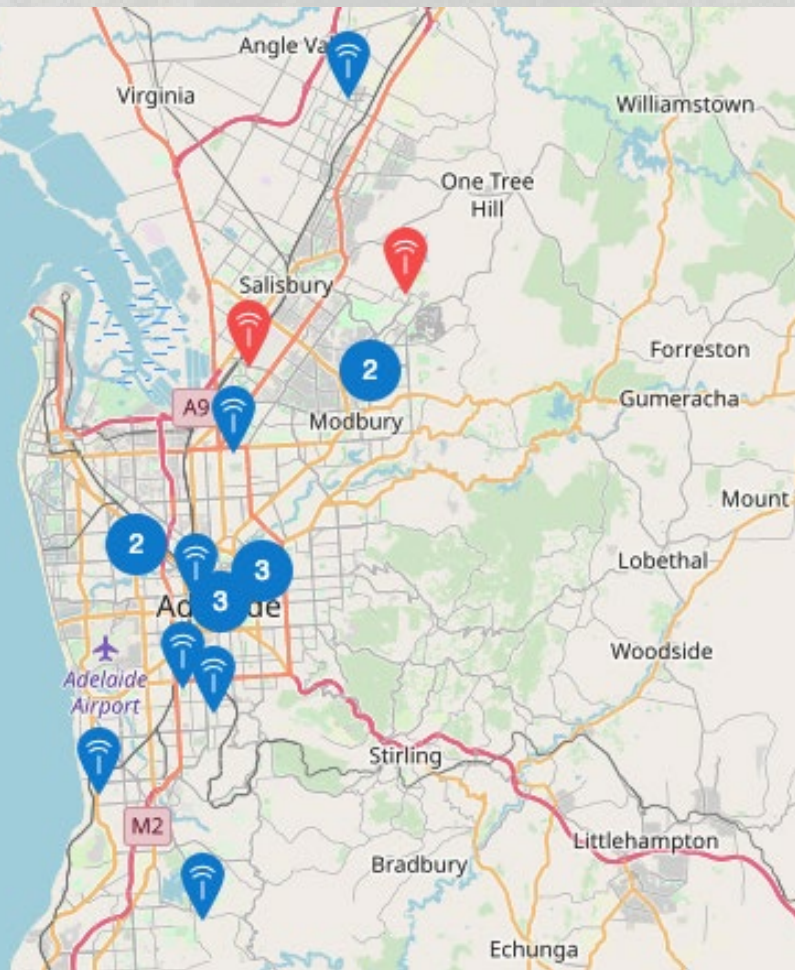
0 Leave a comment

The movement of pedestrians and vehicles in inner-city Liverpool will be captured by upgraded CCTV cameras and smartphones.

The project, part-funded by the federal government's \$50 million "Smart Cities" program, aims to help the local council map potential tweaks to streets and planning rules, in an area undergoing rapid development.







# Connected Cities

- Collaborative project between City of Prospect, City of Burnside, City of Port Adelaide Enfield, City of Playford, Campbelltown City Council, and the University of Adelaide
  - Community and environment driven use cases – parks and places
  - Key Partners: G3 International, Local IoT Suppliers (Smart City Solutions)
  - Leverage the existing TTN network which has been deployed by Leo Gaggie (TTN) & other Cities – eg. City of Tea Tree Gully.
- Deploy city wide public access IoT network using The Things Network

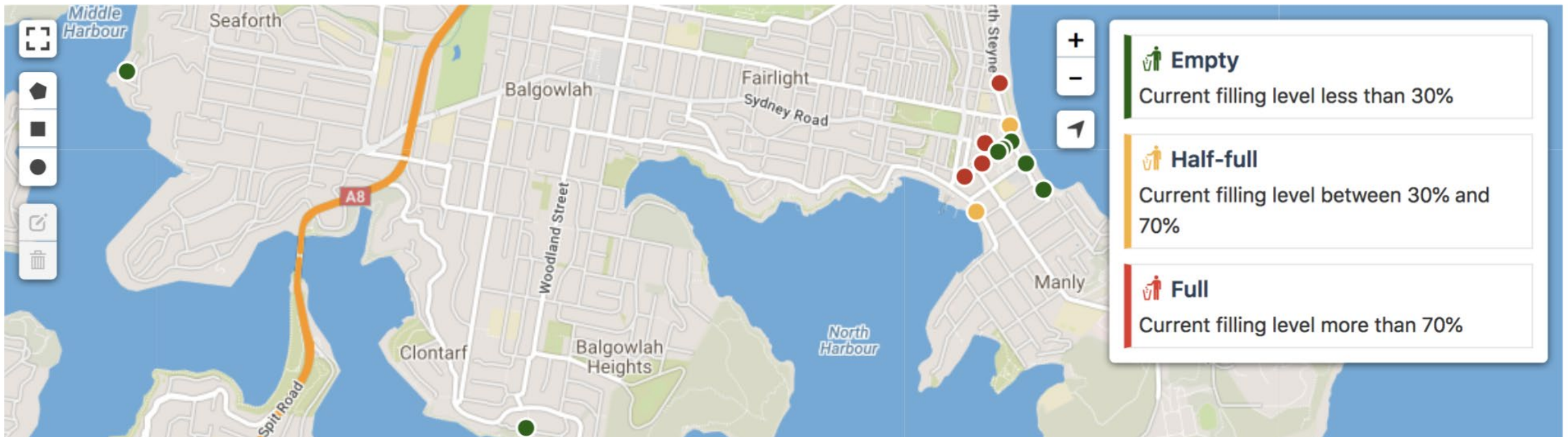
Data is the underlying currency of IoT.....



Current (real time) filling level of Smart Bins in the Northern Beaches area

[Click here to access to historical data dashboard -->>](#)

Current filling levels map





An aerial, black and white photograph of a dense urban area, likely a city center, featuring numerous buildings, streets, and green spaces. A network of thin, light gray lines connects several white circular nodes scattered across the image, creating a web-like pattern. A large, semi-transparent teal rectangle is centered over the image, containing the text "Thank-you" in a white, sans-serif font.

Thank-you



“We always overestimate the change that will occur in the next two years and underestimate the change that will occur in the next ten.

Don't let yourself be lulled into inaction.”

Bill Gates