

C5 loT Projects

Michael Bateman, Head of Bespoke Development, C5 Alliance

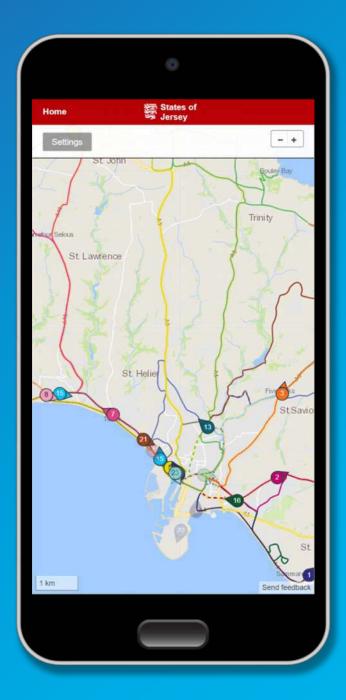


Introduction

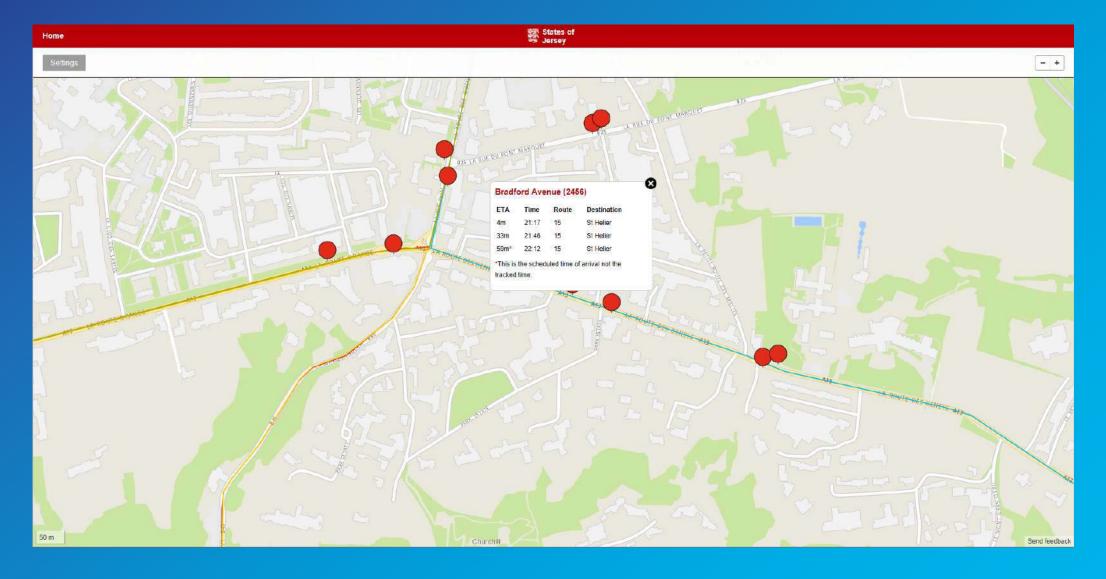
- Bus Tracker
- Car Parking Spaces
- Air Quality Sensors
- Garden Tags
- Big Data



Jersey Bustracker

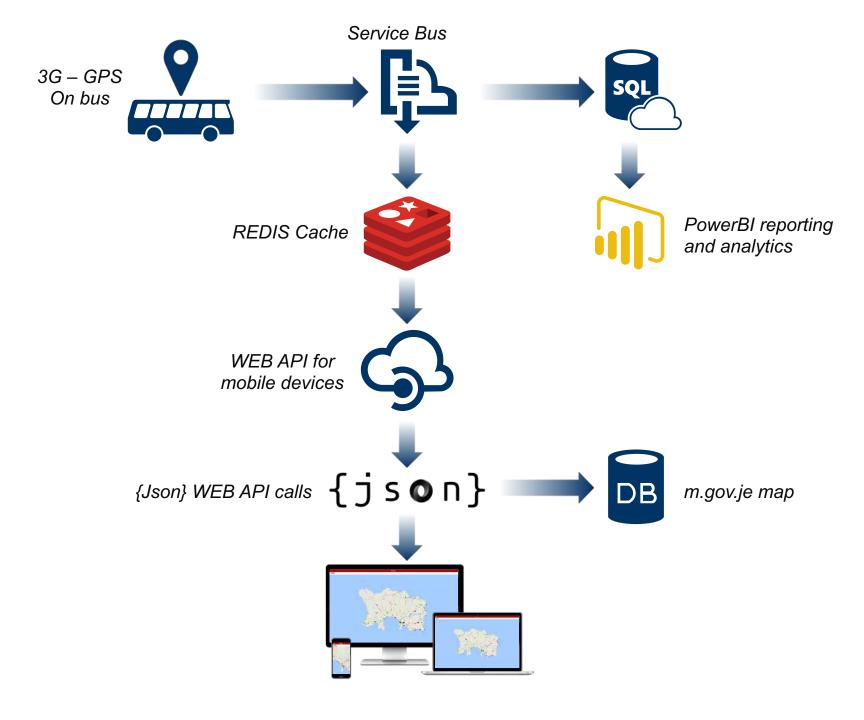






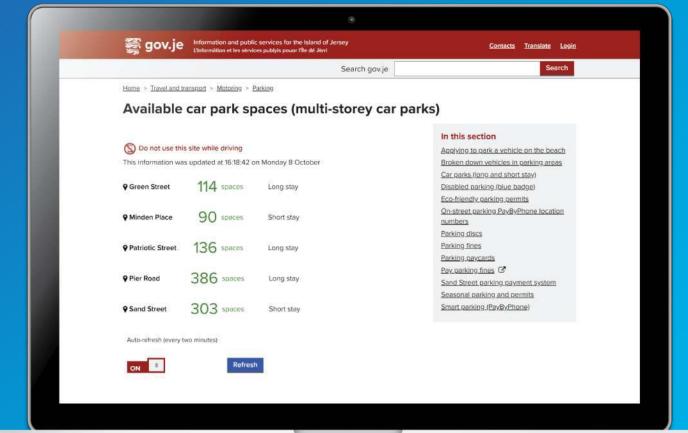


Bus Tracker system architecture



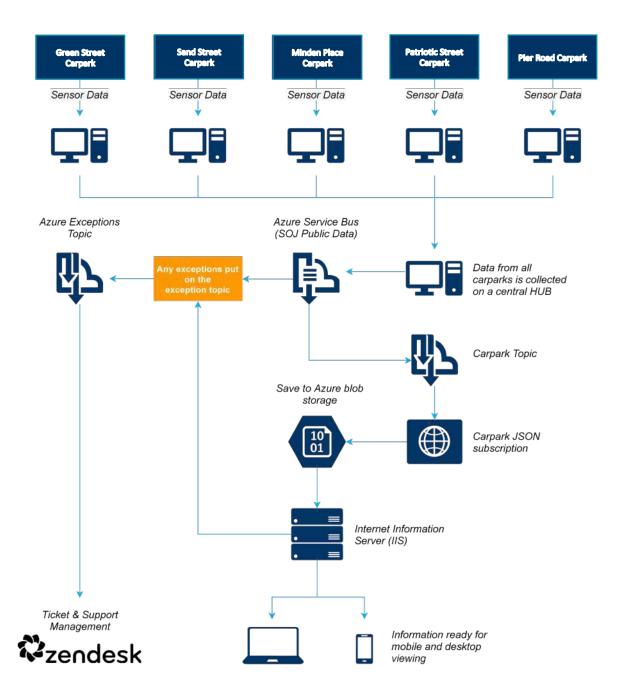


Available Car Park spaces on gov.je





Car Park data system architecture



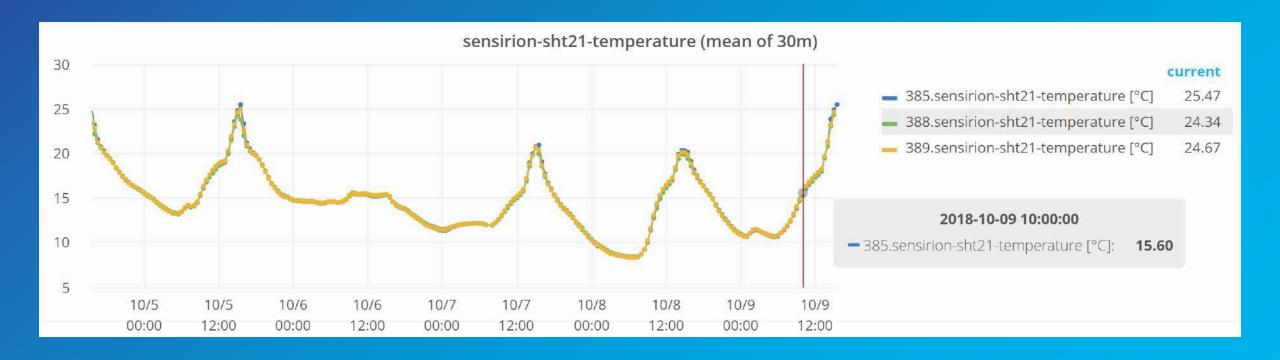


Air quality

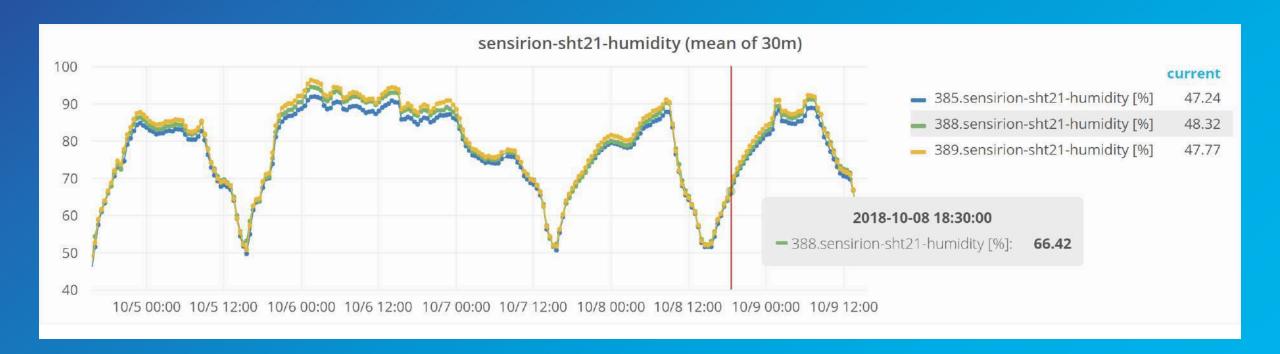


C5 alliance

Temperature over time

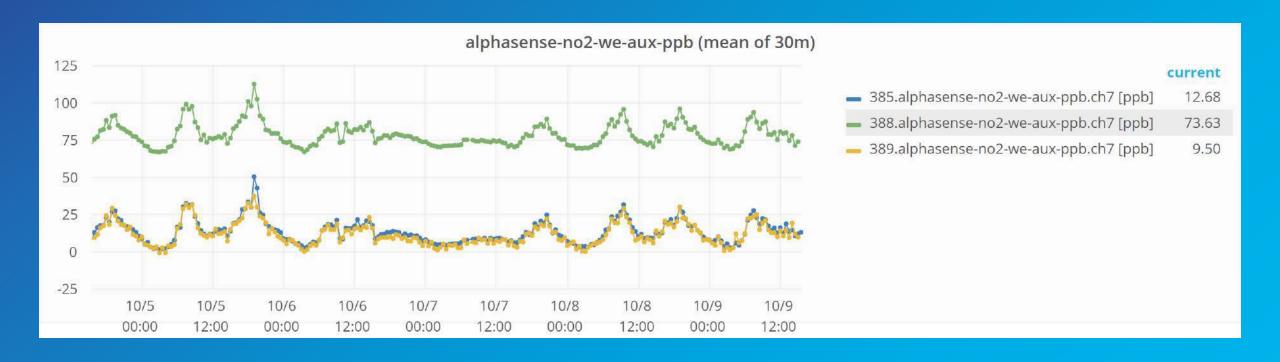


Humidity over time



C5 NO₂ Resulations

NO₂ Results over time



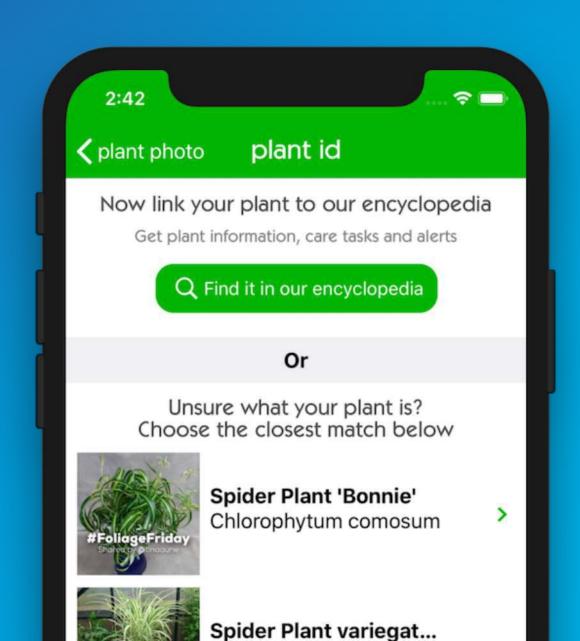


Air sensor system architecture



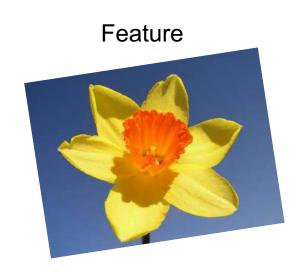


Garden tags plant identification

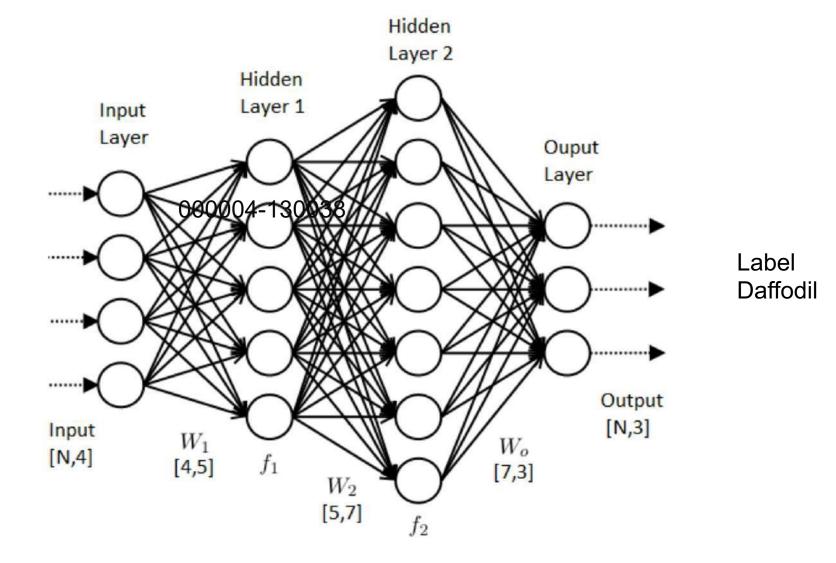




C5 Supervised Learning



Label **Daffodil**





C5 Plant ID Process

Input



Daffodil

Source Images



1020 Daffodil images

Result

Daffodil - 16%

Natal lily or bush lily - 6%

Daffodil 'Tete a Tete' - 4%

Japanese Anemone 'Honorine Jobert' - 3%

Yellow Eyed Grass - 3%

Kaffir Lily 'Mollie Gould' - 2%

Pot Marigold - 2%

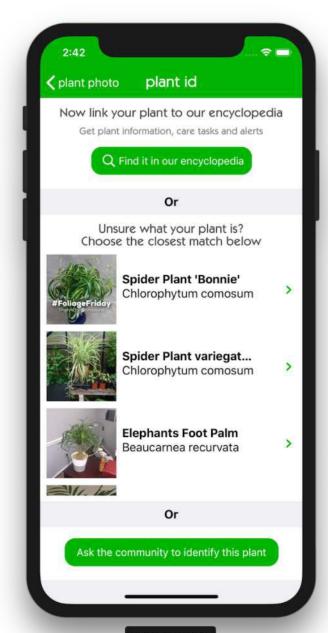
Bedding Dahlia - 2%

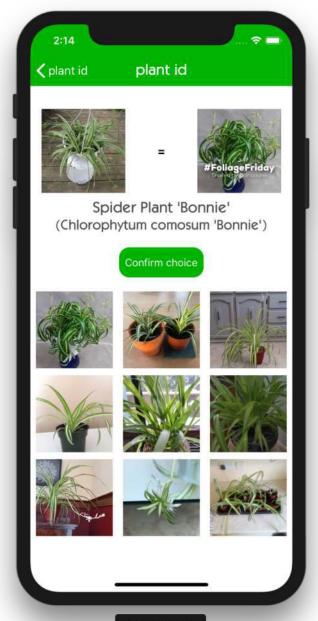
Pot Marigold - 2%

Japanese Anemone - 2%









iPhone X - 11.3

iPhone X - 11.3

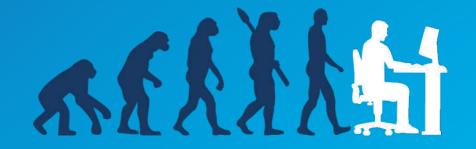


Big Data

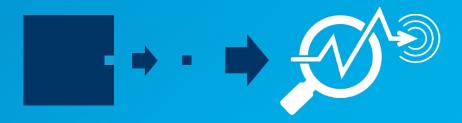


Big Data: did you know?

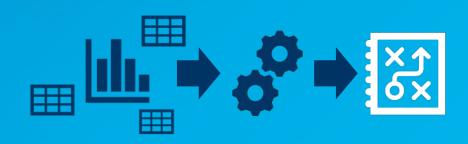
We've created more data in the last few years than in the entire span of human history



Less than 1% of the generated data has been analysed



Analysis of this data can uncover new patterns or enhance efficiencies in existing ones





Big data discoveries...



Men who skip breakfast are at greater risk of coronary heart disease



Users of the Chrome and Firefox browsers make better employees



Typing with proper capitalization indicates creditworthiness



Female-named hurricanes are more deadly

Just because that relationship exists, doesn't mean it will happen

See more examples - Predictive Analytics: The Power to Predict Who Will Click, Buy, Lie, or Die



Thank you





