

# Constructing the Auckland City Rail Link

Ian Clark and Andrew Mein

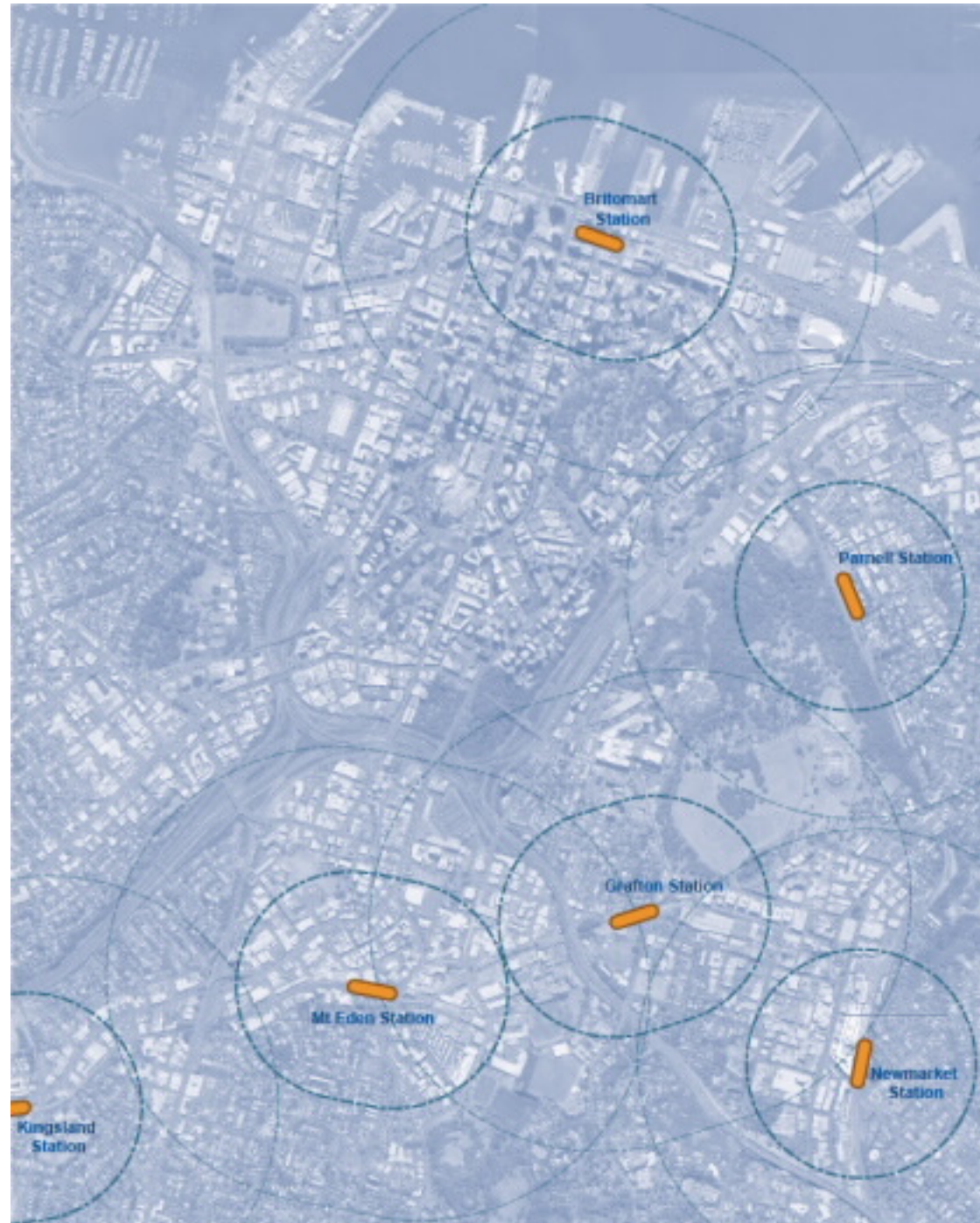
**flow**

TRANSPORTATION SPECIALISTS

# Existing / Future Rail



# Existing Station Catchments



**flow**

TRANSPORTATION SPECIALISTS

# Future Station Catchments



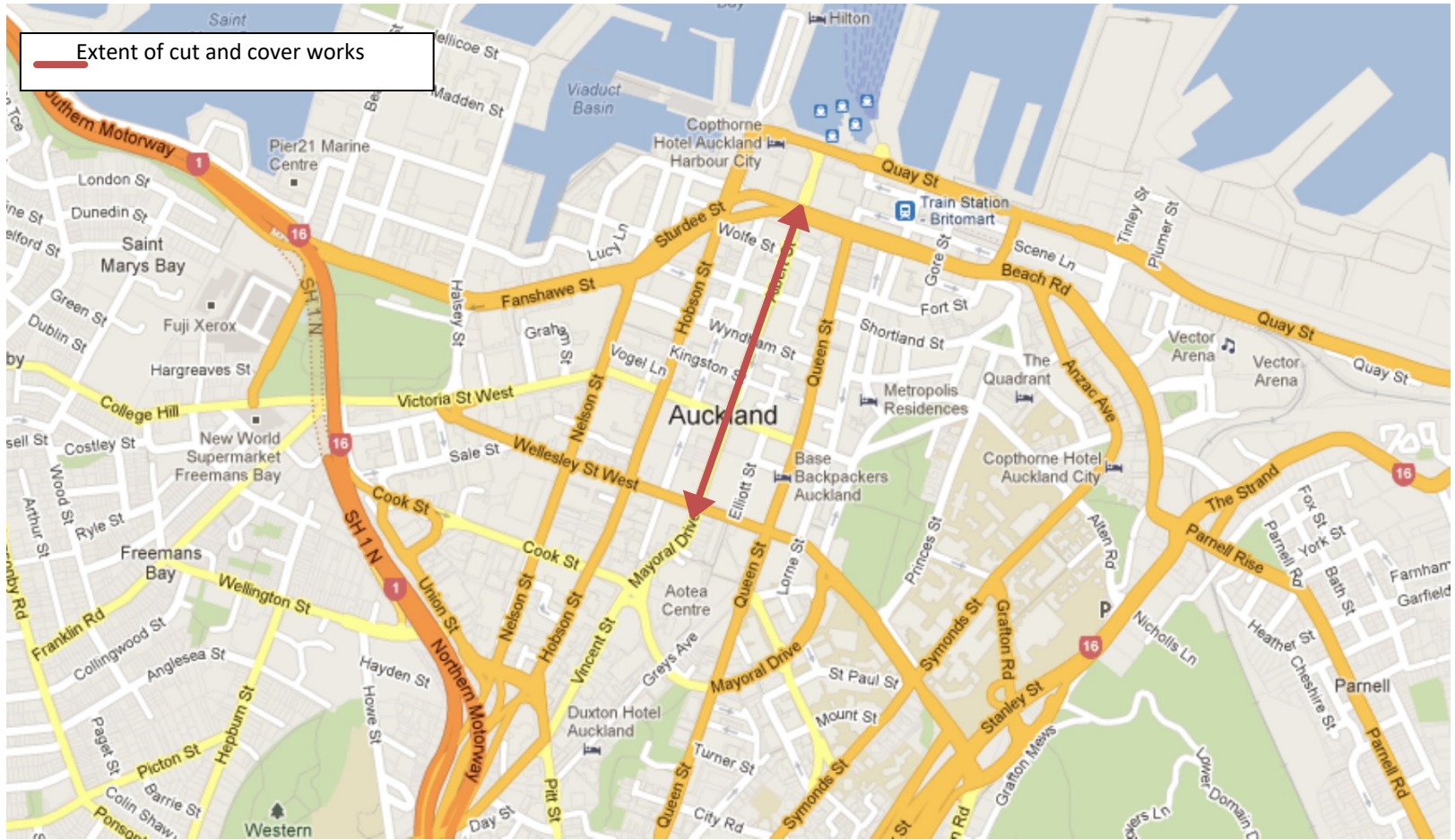
# Transport Planning of CRL

- Integrated Transport Assessment (2012)
  - Council Hearings (2013)
  - Environment Court Hearing (2015)
- Albert Street Stormwater Main Realignment ITA and Hearing
- Alteration to Designation: Britomart
- Alteration to Designation: Mount Eden
  - Environment Court (2017)
- Enabling works construction started late 2015

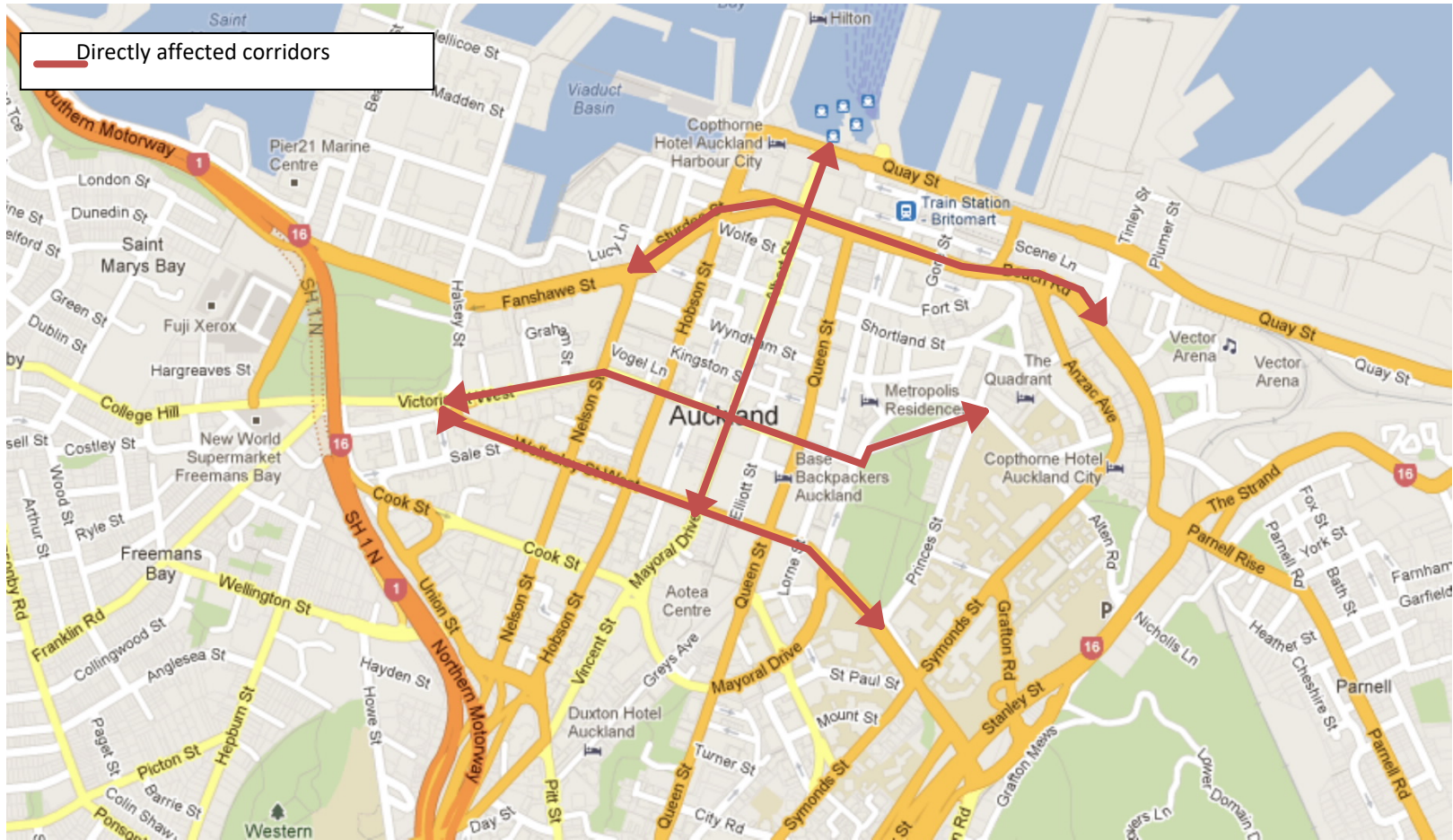
# Transport Planning of CRL

- Integrated Transport Assessment (2012)
  - Long term effects (post construction)
  - Short term effects (during construction)
- Council Hearings (2013)
  - Effects during construction
  - Evolution of Conditions

# CBD Effects



# CBD Effects





# Transport Planning of CRL

- Integrated Transport Assessment (2012)
  - Council Hearings (2013)
  - Environment Court Hearing (2015)
- Albert Street Stormwater Main Realignment ITA and Hearing
- Alteration to Designation: Britomart
- Alteration to Designation: Mount Eden
  - Environment Court (2017)
- Enabling works construction started late 2015

# Downtown



**flow**

TRANSPORTATION SPECIALISTS

# Albert Street



# Albert Street



**flow**

TRANSPORTATION SPECIALISTS

# Albert Street



# Stormwater Main Realignment



# QE2 Square/Britomart Station



# Temporary Britomart Entrances



**flow**

TRANSPORTATION SPECIALISTS



# Evolution of Conditions

- Original conditions
  - Generic
  - Main constraints
    - How closures/restrictions were to be permitted
    - Based on modelling
- Evolving conditions
  - Monitoring conditions
    - Absolute increases
    - Actual v modelled increases

# Comments (1)

- Avoid, remedy or mitigate effects?
- What effects are acceptable?
- Complex area – other things going on
  - What is the relevant base line?
  - What is to blame, if problems emerge?

# The City Rail Link



**flow**

TRANSPORTATION SPECIALISTS

# The City Rail Link



**flow**

TRANSPORTATION SPECIALISTS

# Comments (2)

- Approach to conditions
- Traffic monitoring conditions
  - Conditions clearly specified mitigation
  - Movement hierarchy
  - No bus conditions
- Trip suppression

# The City Rail Link

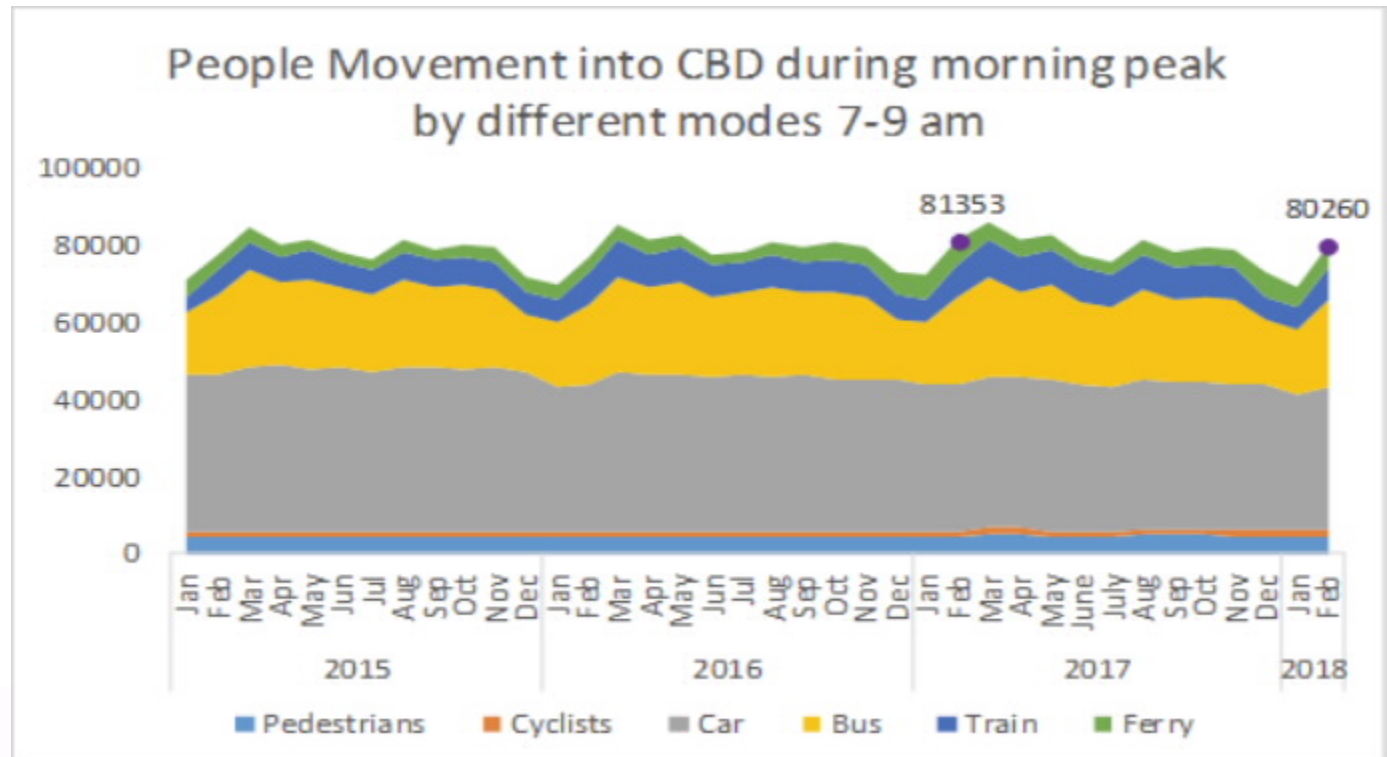


# Comments (3)

- Don't assume CRL conditions translate to other projects

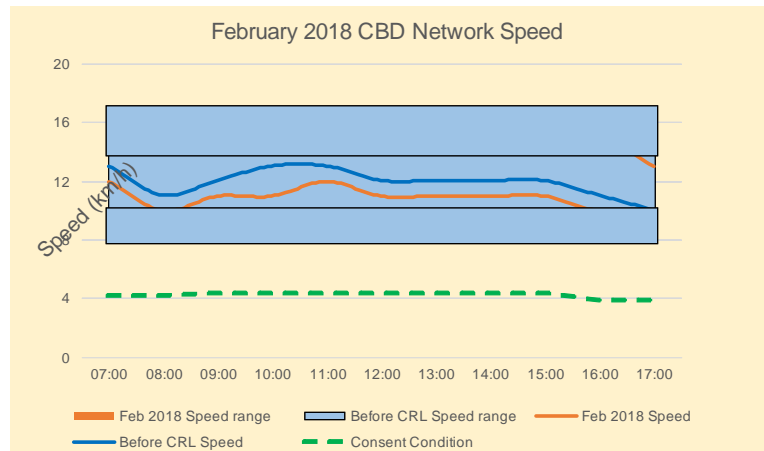
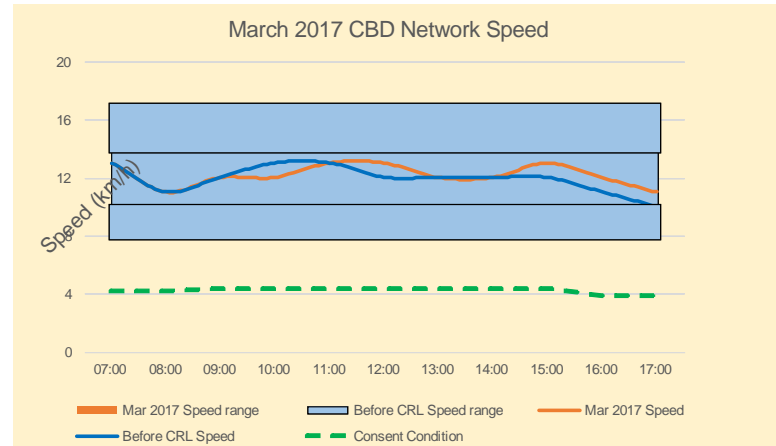
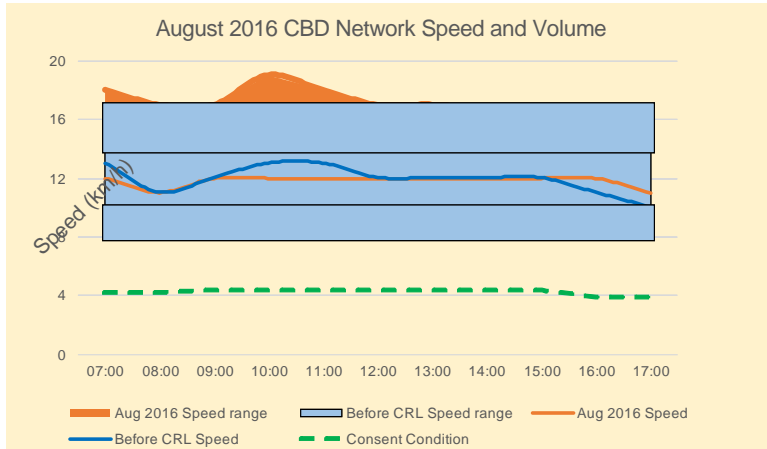
# Trends – Person Trips by Mode

- October 2015 – CRL works started
- July 2016 – Main works commenced on Albert and Customs Street Intersection



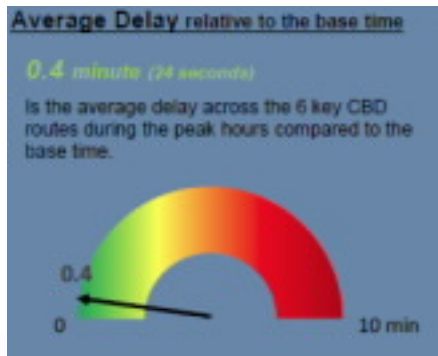
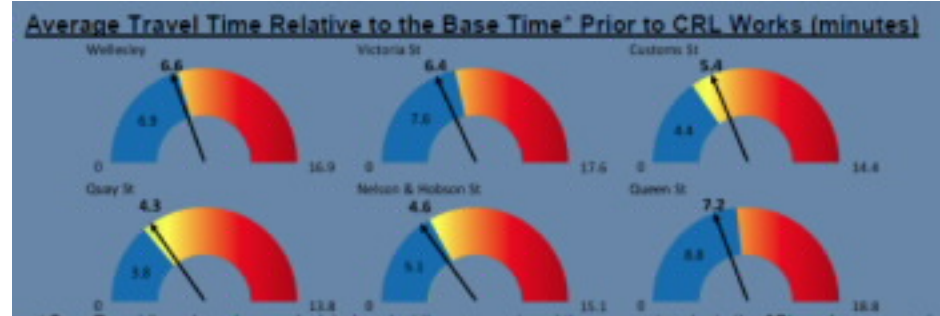
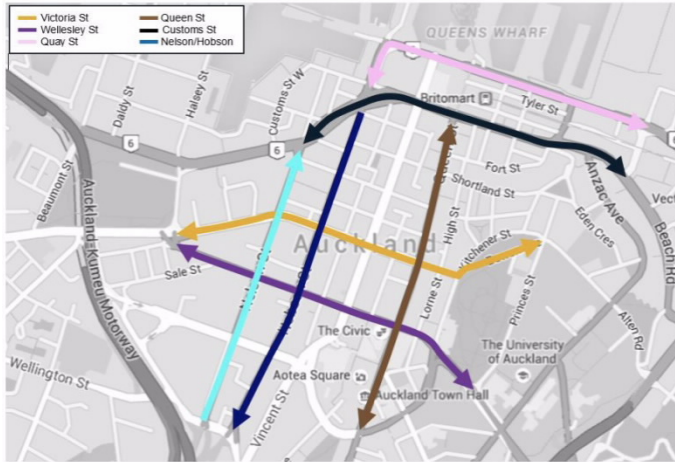


# Trends – Vehicle Speeds



# Trends – Travel Time

- Affected Routes August 2016



# Thoughts

- Traffic model continues to provide a dependable prediction of outcomes for the various stages of works
- Traffic volumes predicted are slightly higher than currently observed
- Construction works within the CBD at all time high and CBD is still operating and function within expectation

# Questions?

- [ian@flownz.com](mailto:ian@flownz.com)
- [andrew@flownz.com](mailto:andrew@flownz.com)

**flow**

TRANSPORTATION SPECIALISTS