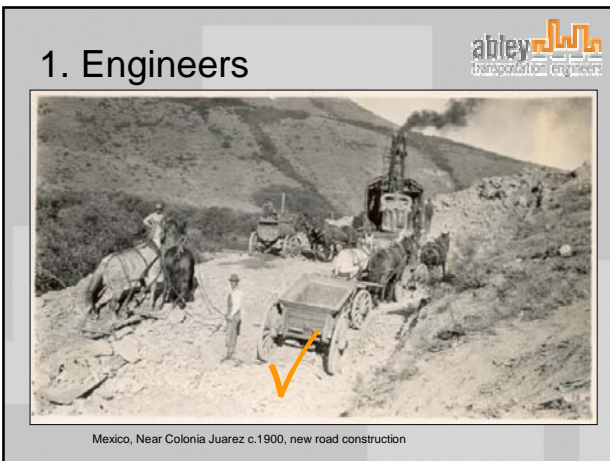
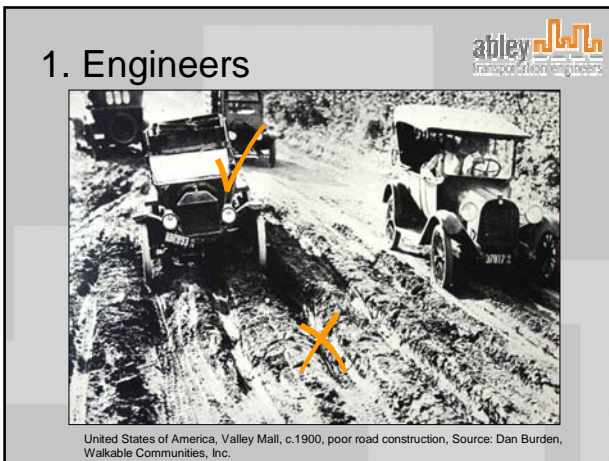
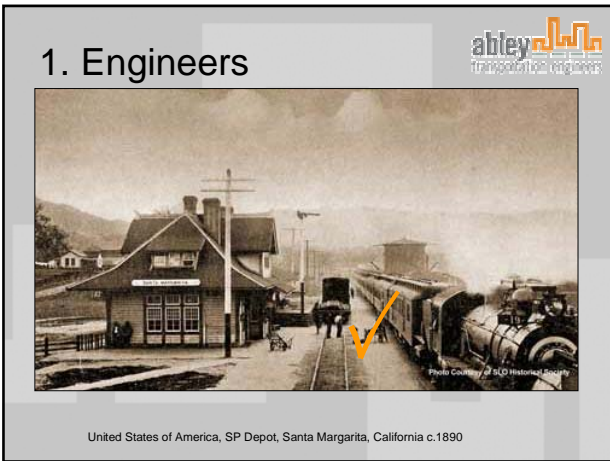
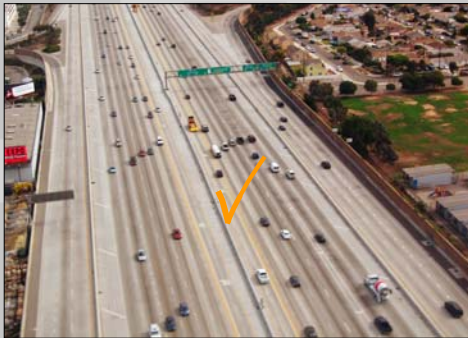


- ### Introduction
1. Engineers
  2. Outcomes
  3. Problem ID
  4. Solutions
  5. Benefits
  6. Future

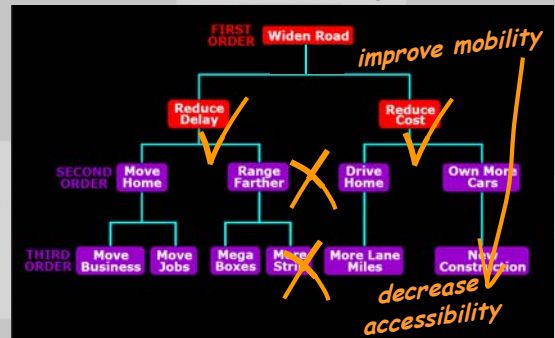


## 1. Engineers



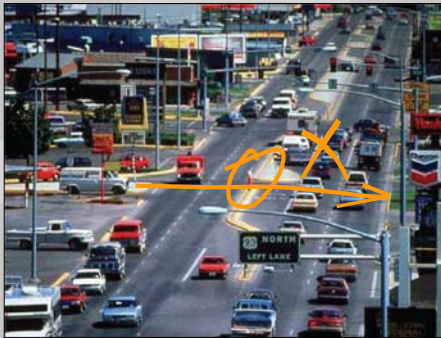
United States of America, Los Angeles, 405 Freeway, near LAX

## 2. Outcomes - Existing



Source: Dan Burden, Walkable Communities, Inc.

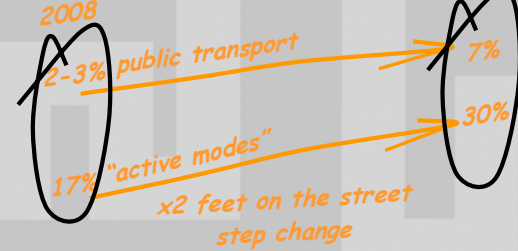
## 2. Outcomes - Existing



United States of America, Source: Dan Burden, Walkable Communities, Inc.

## 2. Outcomes - Future

“an affordable, integrated, safe, responsive and sustainable transport system”



## 2. Outcomes

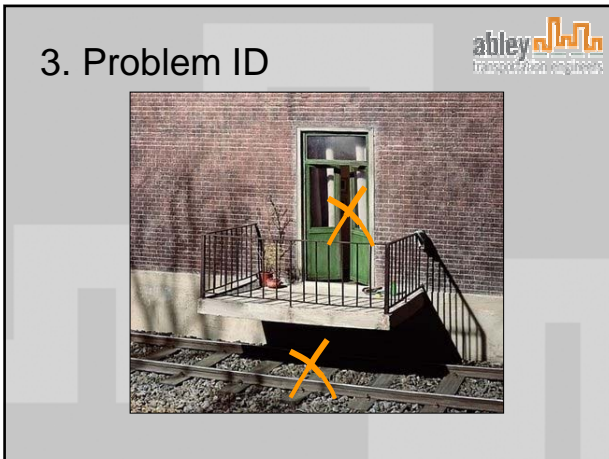
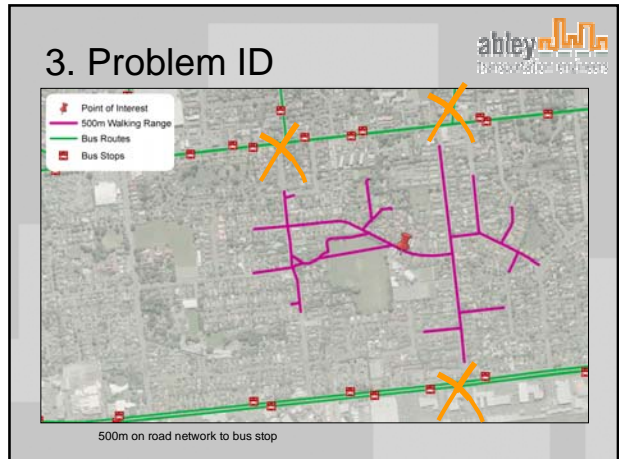
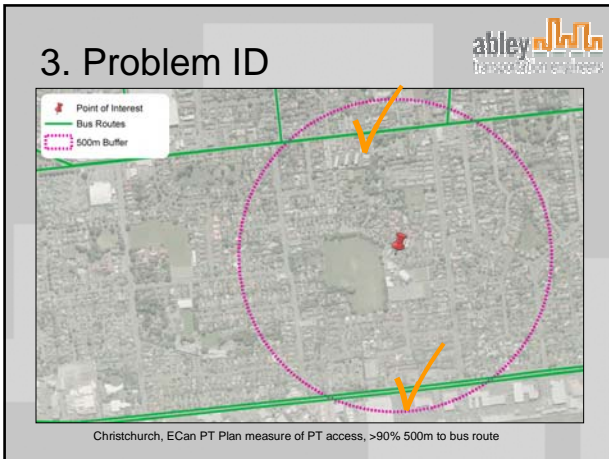
Only two questions...

- 1. What influences outcome?
- 2. How do we measure?

## 3. Problem ID



Christchurch, ECan RLTS measure of PT access, 400m to bus stop for subdivisions



- ### 4. Solutions
- Measure better!
  - Public Transport Accessibility Levels
    - Developed by London Borough of Hammersmith and Fulham (1992)
    - Adopted by Transport for London (TfL)
      - Used for transportation assessments
      - Used to vary rate of parking supply
    - Used outside London too
      - Used to determine housing density

### 4. Solutions

*access points*  
*services*  
*frequency*  
*reliability*  
*ease of walking*

*accessibility index*

*Christchurch mid weekday shopping period*



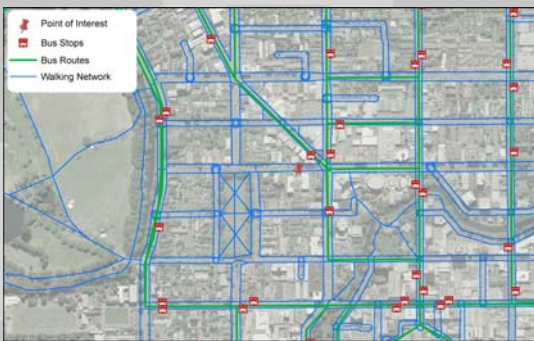
## 4. Solutions



## 4. Solutions



## 4. Solutions



## 4. Solutions

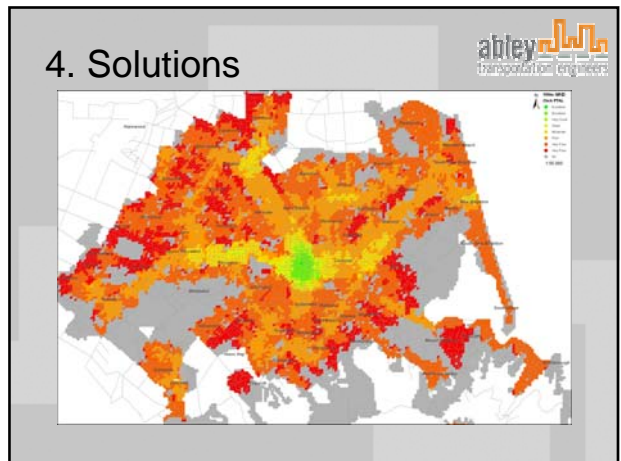
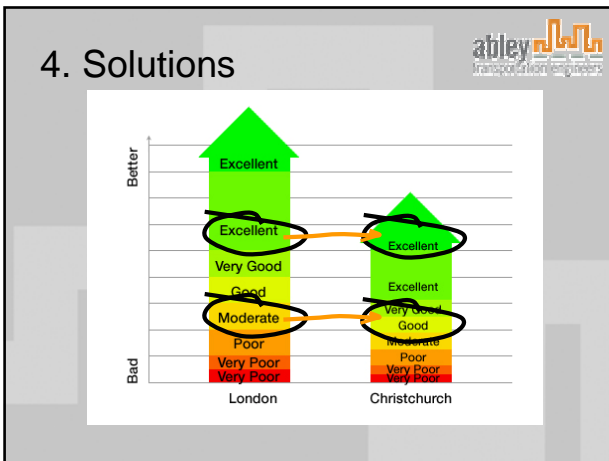
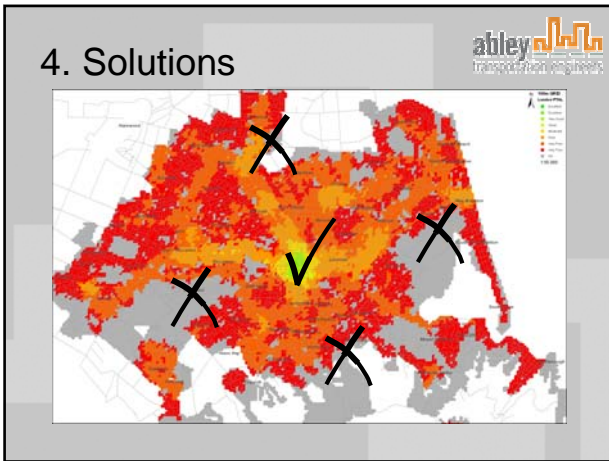


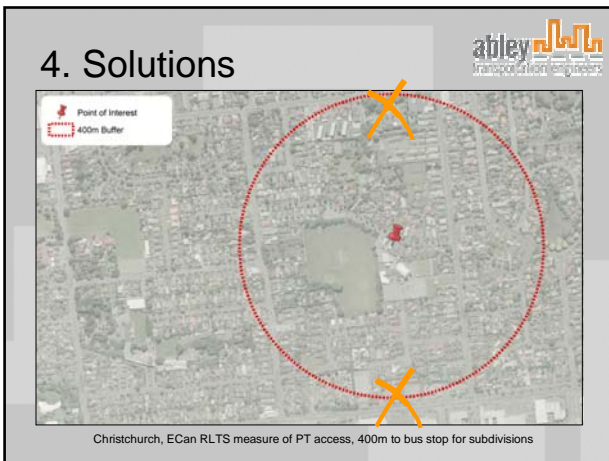
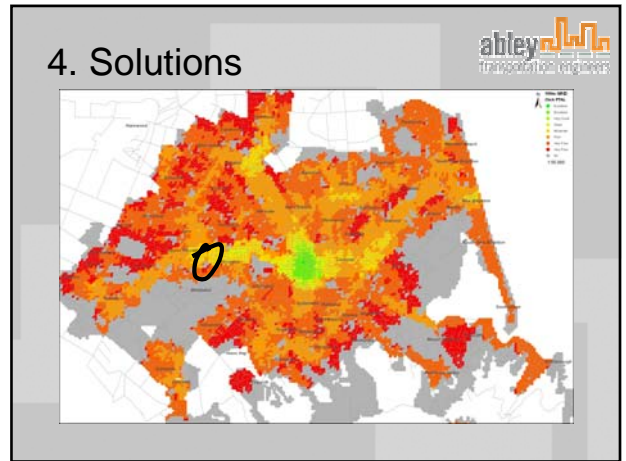
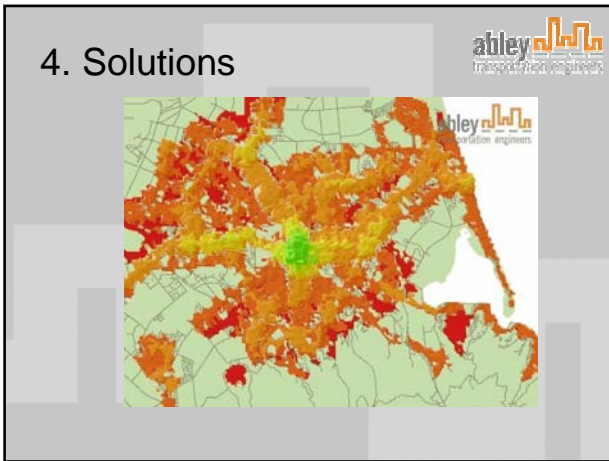
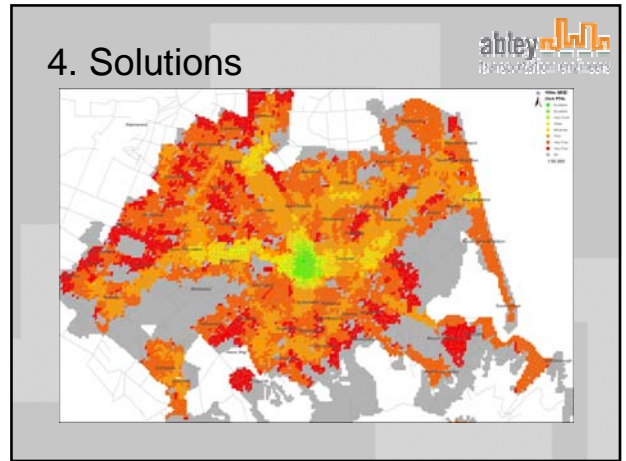
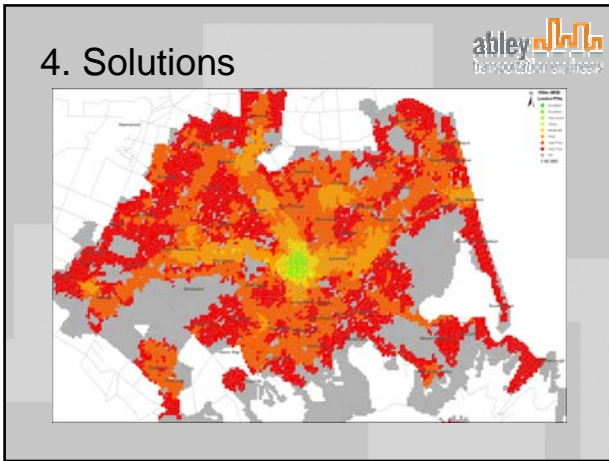
## 4. Solutions



## 4. Solutions



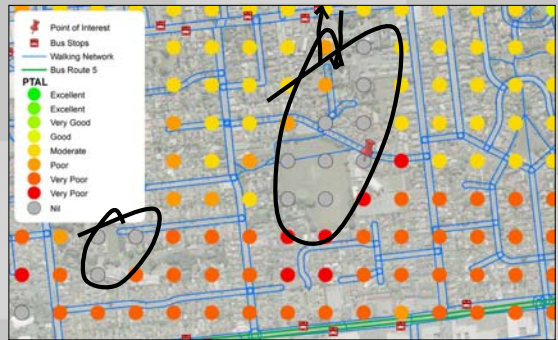




## 4. Solutions



## 4. Solutions



## 4. Solutions



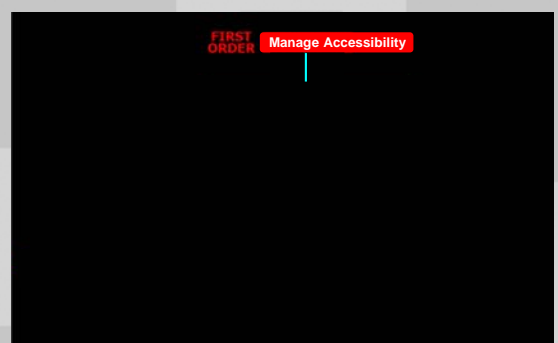
## 4. Solutions



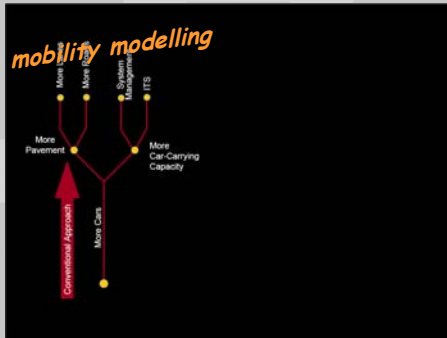
## 4. Solutions



## 5. Benefits

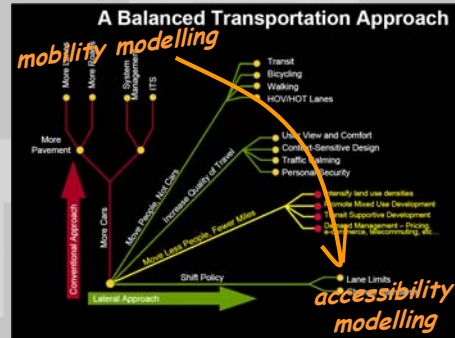


## 6. Future



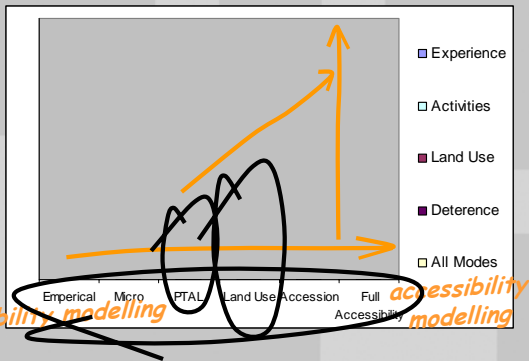
Source: Dan Burden, Walkable Communities, Inc.

## 6. Future



Source: Dan Burden, Walkable Communities, Inc.

## 6. Future



## 6. Future

- Other periods e.g. commuter
- Different walking speeds e.g. young, old
- Link with demographics – low income and low PT accessibility?
- Benchmark other NZ cities
- Create levels customised to NZ
- Link with policy – e.g. RLTS, LTCCP
- Use as part of other assessments e.g. ITA

## Summary

- Engineers are problem solvers ✓
- If you measure you manage ✓
- Q. "Can a transport system be measured?"
- A. "Public Transport Accessibility Levels" ✓
- Full Accessibility modelling is coming soon ✓✓✓✓✓

## 6. Future

www.abley.com  
Client Login  
Username: demo  
Password: demo





