

Acronyms and modelling in Greater Christchurch

MoT Knowledge Hub, 23rd May 2019

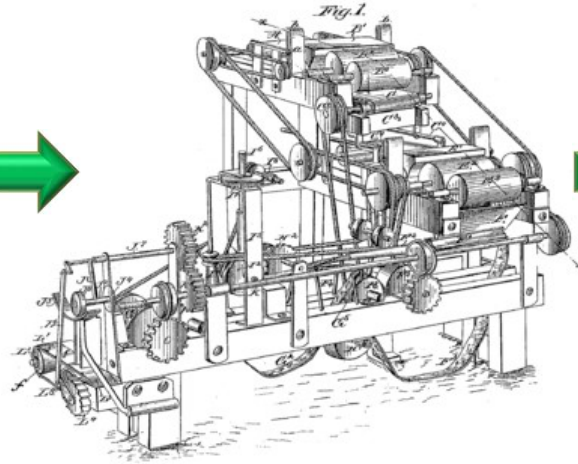
Outline

- A few acronyms
- An analytical framework
- Inputs
- Requirements
- Some disclaimers

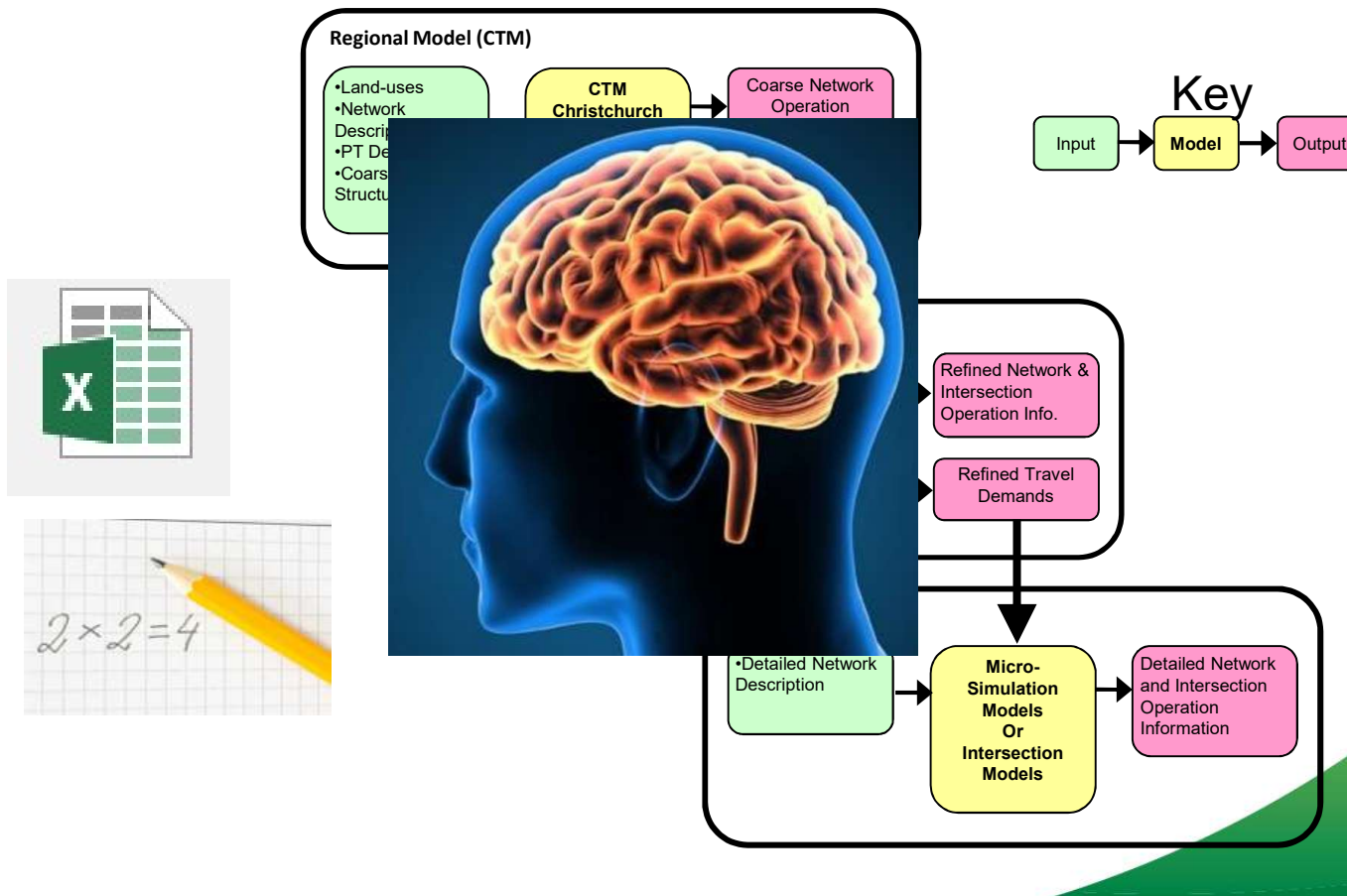
Acronyms

- WDC, SDC, CCC, ECan: Waimakariri District Council, Selwyn District Council and Christchurch City Councils, Environment Canterbury (Regional Council)
- GCP, MMG, LUMMG: Greater Christchurch Partnership, Transport Model Management Group, Land Use Monitoring and Modelling Group
- CTM, CAST, SATURN, LUTI: Christchurch Transportation Model, Christchurch Assignment and Simulation Traffic Model, Simulation and Assignment of Traffic to Urban Road Networks, Land Use and Transport Interaction models

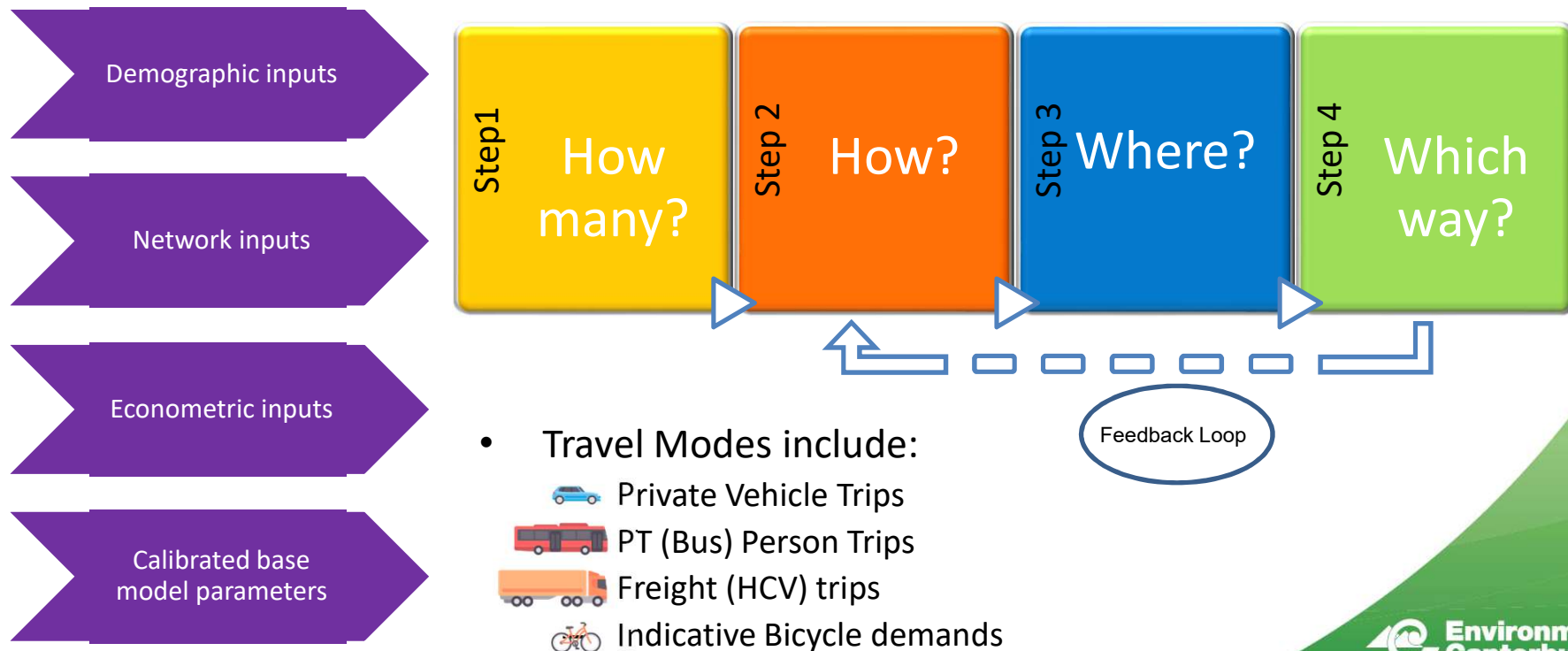
The black box



Analytic framework



Modelling process



Challenges: timing

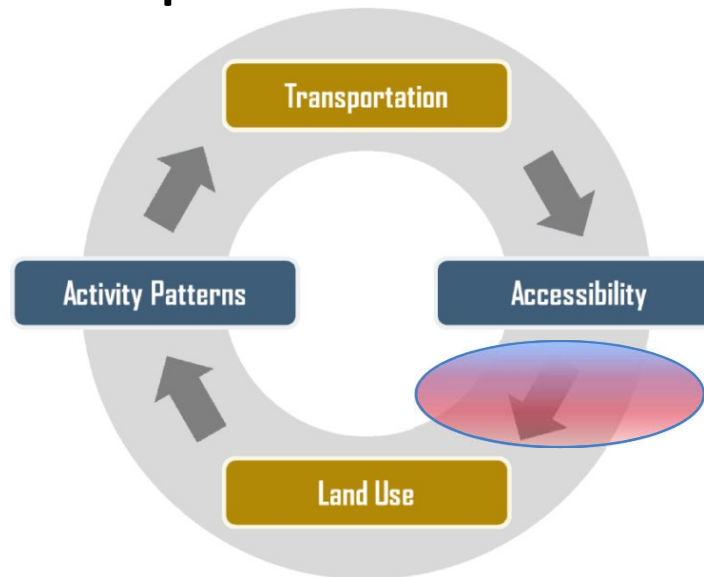
- 5 yearly census
 - ~1 year to process
 - ~1 year to put through transport model
 - 2013 models available in 2016
 - 2018 models available in...
- Forecast updates

Changing requirements

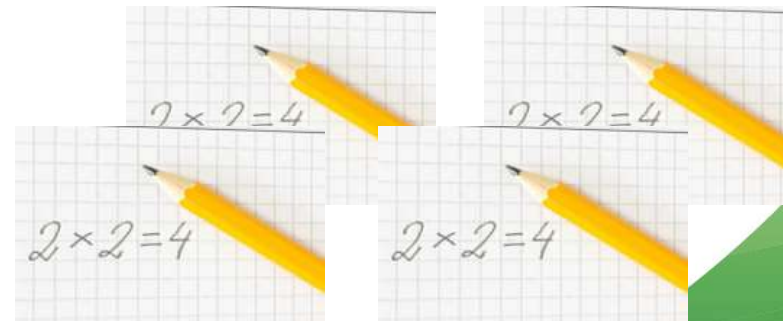
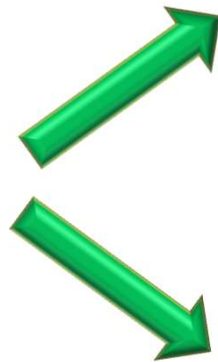
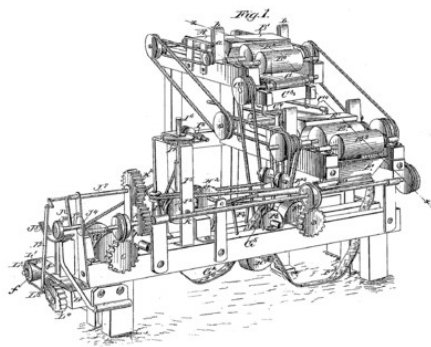
- Capturing the important stuff
 - Large changes to inputs
 - Model responses, all modes
 - Consistency of approach
 - Simplicity rather than false accuracy

Land use - StatsNZ

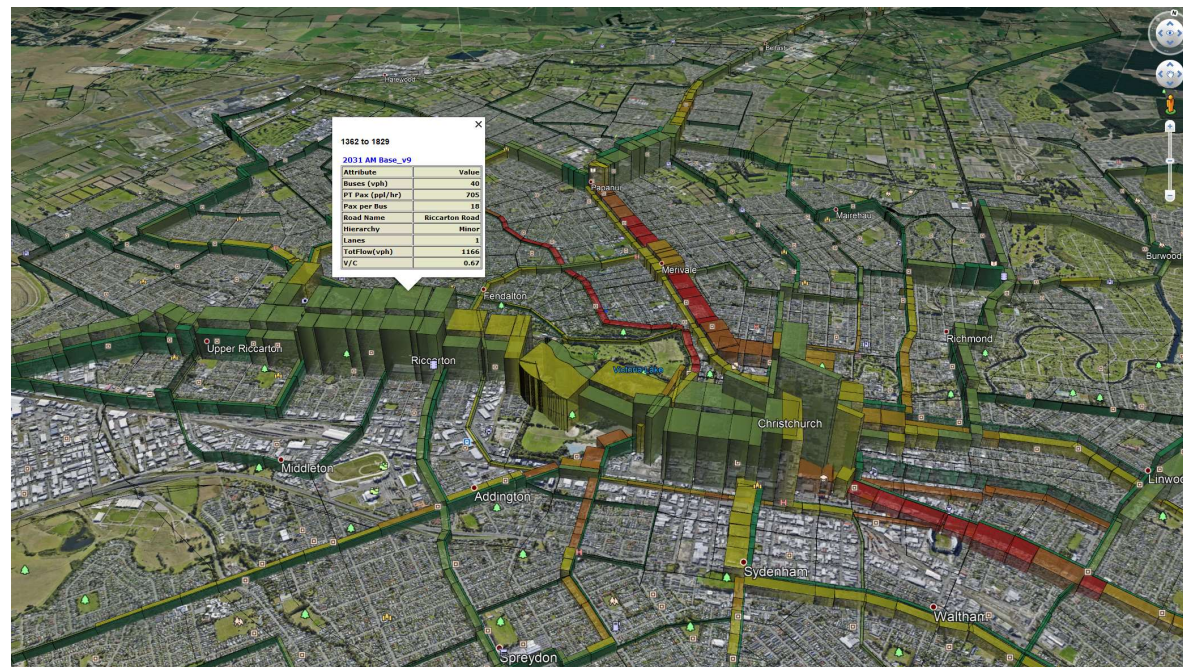
- Land use – transport interaction (LUTI)



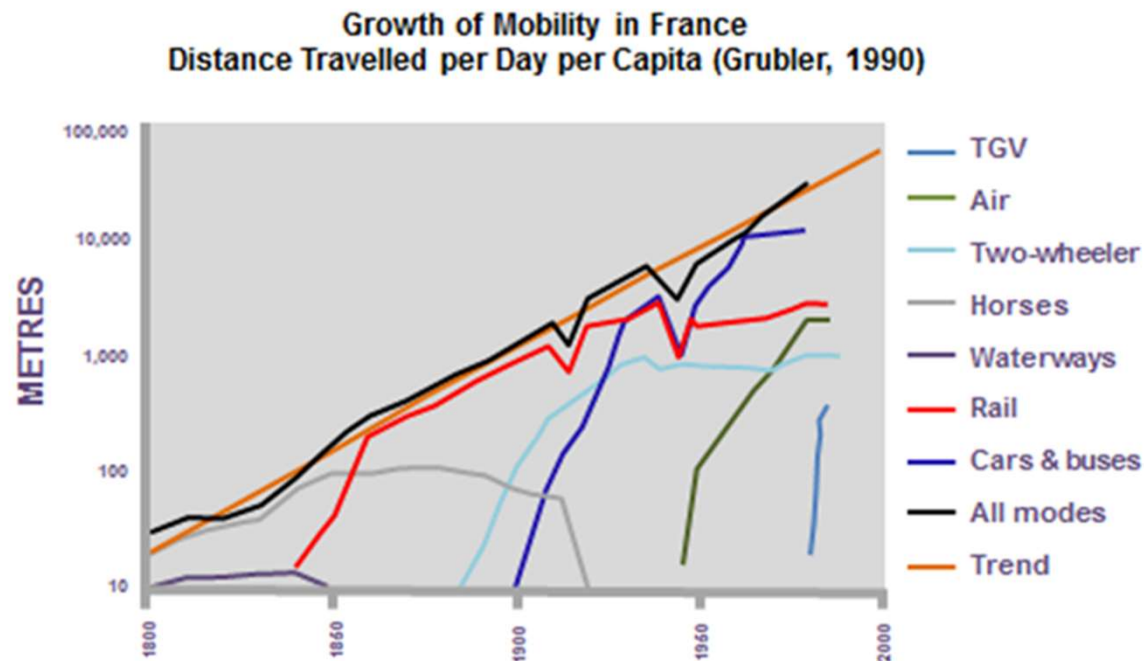
Options



Still just a model!



How far can we predict?



Summary

- “Traditional” analytical tools
- Decision makers’ requirements changing
- Future uncertain, a range of desirable and also plausible futures
- Analytical tools just help

Questions?