

# **Interesting Issues**

Background to the projec

# Interesting Issues

- Background to the project
- Management Structure

# Interesting Issues

- Background to the project
- Management Structure
- Geographic coverage

# Interesting Issues

- Background to the project
- Management Structure
- Geographic coverage
- Data collection

# **Interesting Issues**

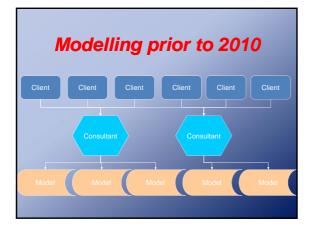
- Background to the project
- Management Structure
- Geographic coverage
- Data collection
- Model structure

# Interesting Issues

# **Background**

- First Hamilton model built in 1967
  Updated in 1977-80
  Period models developed in the 80's
  Regular updates -- but still using 1967 data
  Other models built for Cambridge, Te Awamutu
- Awamulu

  Also a region wide assignment model



# **Scoping Study**

- Recommended
   –a new model be built following a data collection exercise.
   –a management structure that would ensure long term benefits for the model owners
- Gabites and TDG engaged in October 2007 to build and operate the model

# **Objectives for the WRTM**

### As opposed to

# **Objectives for the WRTM**

- - Currently

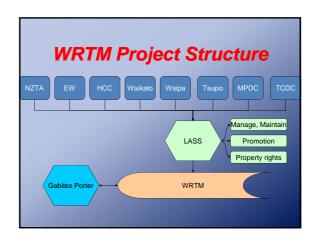
     Existing models used old or borrowed data

     Asking more (too much) of existing models

# Objectives for the WRTM

- 2. Quality data and modelling:
  3. Minimise project and administration overhear!

   Range of project managers and administrators

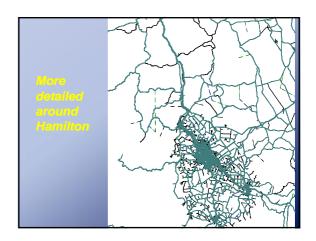


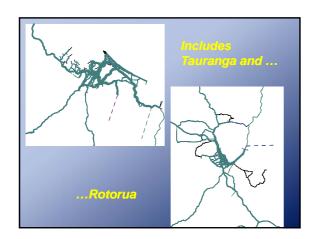
# **Project Timetable**

- Project = Model Build + Operation
   Contract signed 19th October 2007
   Initial Completion data April 2009
   Delayed by Home Interview Survey
   Clean HIS data available March 2009
   Model build completed Jan 2010

# Geographic Coverage







## **Data Collected**

## **Data Collected**

# **Household Interview Surveys**

- Survey March 2008 to January 2009
   Face-to-face interviews conducted
   2,000 Households (1,000 in Hamilton)
   Saturday Survey for additional 500 HHs
   Trip rates:
   Unexpanded = 9.4 daily person trips/HH
   Expanded = 11.2 daily person trips/HH

## **Data Collected**

- Household Interview Surveys

## **Data Collected**

#### **Roadside Interview Surveys**



# **Data Collected**

- Household Interview Surveys
- Roadside Interview Surveys
- Bus Passenger Interview Surveys

#### Data Collected

- Bus Passenger Interview Surveys

  - Survey 50% peak & 33% off-peak
     On-board interview survey
     Interviewed 4,700 passengers
     30% sample (16k pax/day)
     Expand to EW patronage data

# **Data Collected**

- Household Interview Surveys
- Roadside Interview Surveys
- Bus Passenger Interview Surveys
- Census Data (JTW & Crosstabs)

## Data Collected

- Household Interview Surveys
- Roadside Interview Surveys
- Bus Passenger Interview Surveys
- Census Data (JTW & Crosstabs)

## Data Collected

- Household Interview Surveys
- Roadside Interview Surveys
- Bus Passenger Interview Surveys
- Census Data (JTW & Crosstabs)
- Journey Time Surveys

# Capabilities of the Models

#### **Two models**

# Capabilities of the Models

#### **Vehicle Driver**

- - Three periods

    Morning Peak 0700 to 0900

    Inter peak 1100 to 1300

    Evening peak 1600 to 1800

# Capabilities of the Models

#### **Vehicle Driver**

- Suitable for

  Road network analysis

  Network operation

  Landuse planning

  Impute to economic analysis

# Capabilities of the Models

#### **Two models**

- Vehicle driver

# **Capabilities of the Models**

#### **Person model**

• Car Passenger
• Bus Passenger
• Walk and Cycle

# Capabilities of the Models

## **Person model**

- Two Periods

   Morning Peak 6700 to 0900

   Inter Peak 1100 to 1300

# Capabilities of the Models

#### **Person model**

# **Model Form**

## **Model Form**

## **Model Form**

## **Model Form**

## **Model Form**

toad Assignment - full Intersection modelling

# **Model Form**

Road Assignment – full Intersection modelling Public Transport time sliced assignment

# Some Basic Statistics

# Some Basic Statistics

900 Zones 8400 Nodes

# Some Basic Statistics

900 Zones 8400 Nodes 20.000 Links

# Some Basic Statistics

900 Zones 8400 Nodes 20,000 Links 13 Trip Purpose

## Some Basic Statistics

900 Zones 8400 Nodes 20,000 Links 13 Trip Purposes Three step takes 6 minutes per period

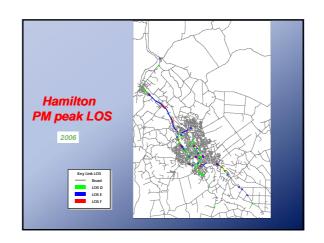
# Some Basic Statistics

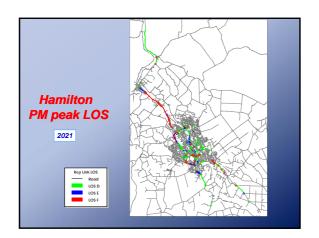
900 Zones 8400 Nodes 20,000 Links 13 Trip Purposes Three step takes 6 minutes per period Four step takes a little longer

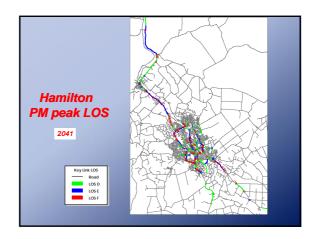
# Some Basic Statistics

900 Zones 8400 Nodes 20,000 Links 13 Trip Purposes Three step takes 6 minutes per period Four step takes a little longer TRACKS software platform









# Peer Review Reviewer (Ian Clark)



# Peer Review Reviewer (lan Clark) Involved from inception Assisted client with: • the RFT for model build • data collection • tachnical note review

# Peer Review Reviewer (lan Clark) Involved from inception Assisted client with: • the RFT for model build • data collection • technical note review Final sign off

