

FLOW – “Decongesting Europe”

Transparency & Ethics in Transport Modelling -
Dublin City Councils Experience

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Modelling for Non-Modellers

From a Clients Prospective

- Modelling Brief
- Limitation of Multi Modal Approach
- Local Context
- Auditing
- Interpretation

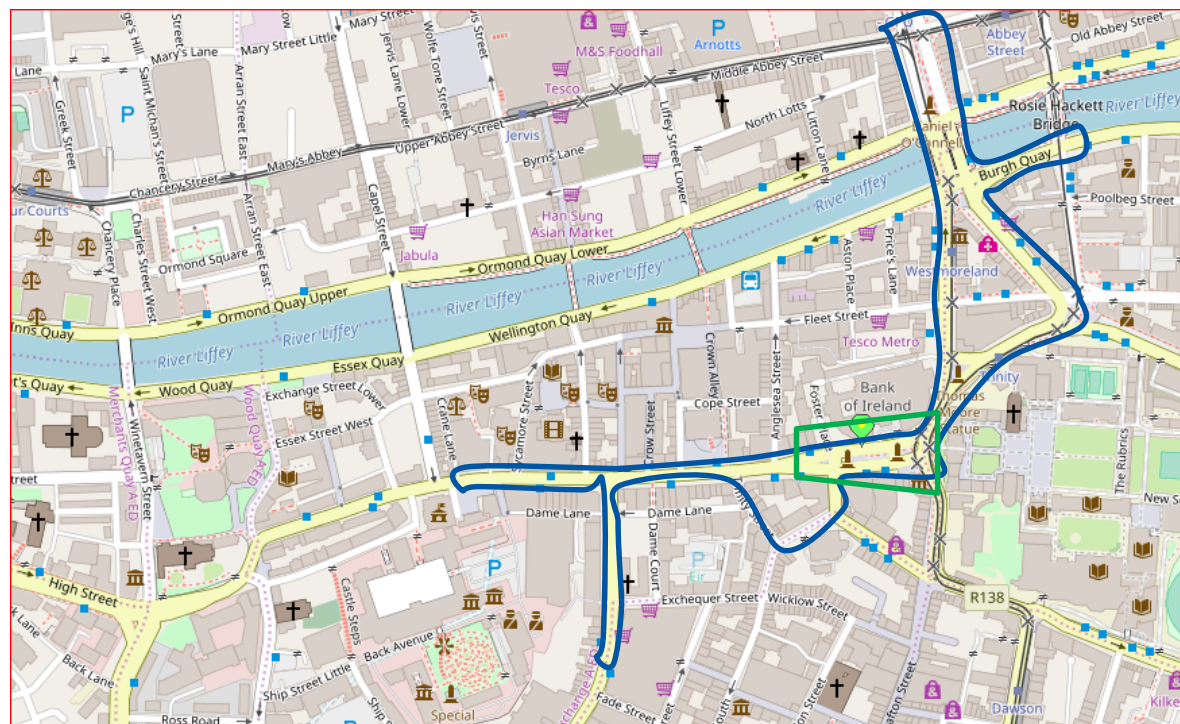


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Modelling Brief

What do you want to do?

- City Centre Pedestrian Plaza
- Model brief
 - Existing - Base Model

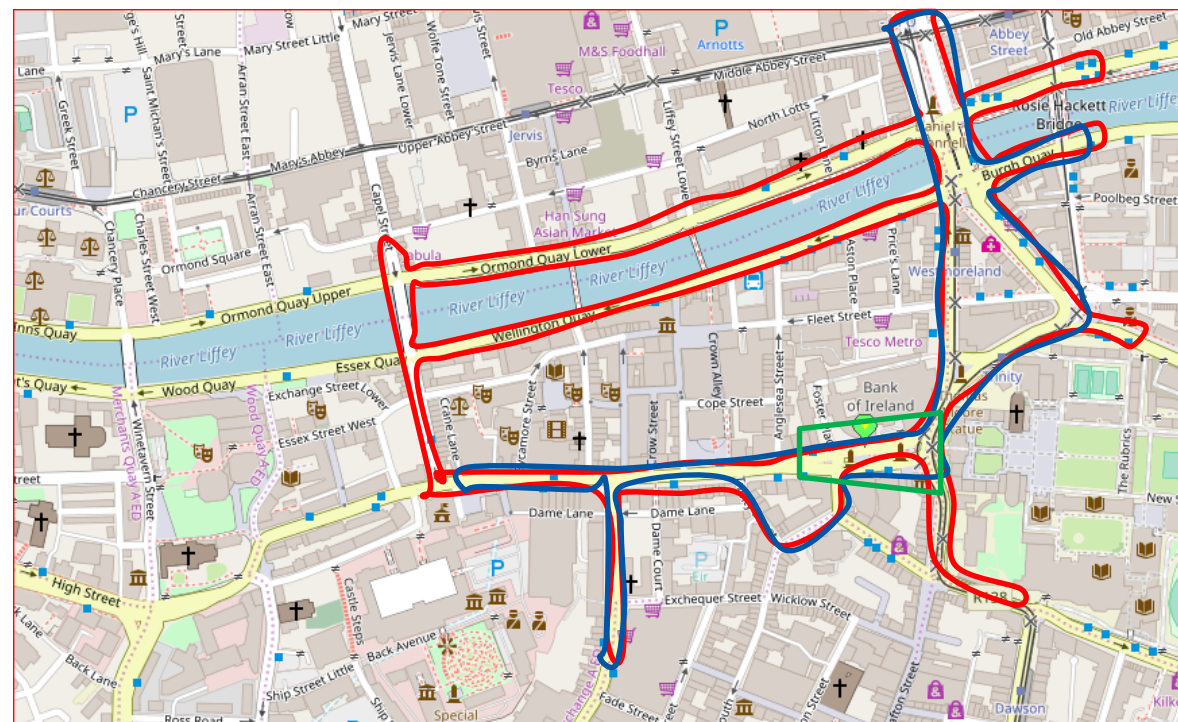


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Modelling Brief

Do Something Model

- Displaced Vehicles / People
- Where do they go?
- Affects of diverted Traffic need to be assessed



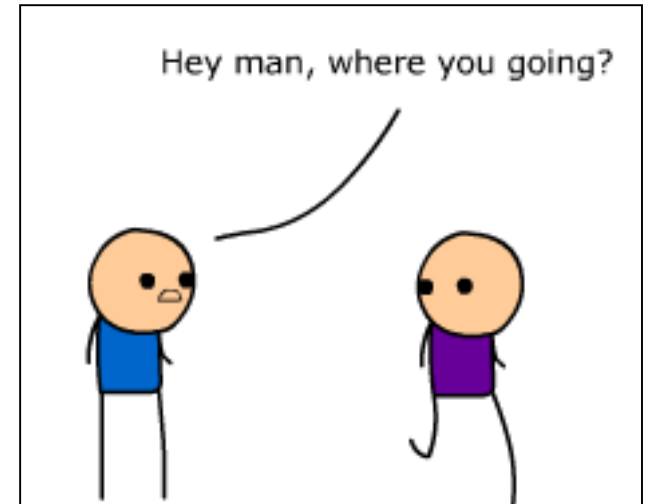
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Limitation of Multi Model Approach

Data Collection

➤ Traditional Methods

- Vehicle detector Traffic Counts
- Public Transport Number and frequency



Cyanide + Happiness Explosm.net



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Limitation of Multi Model Approach

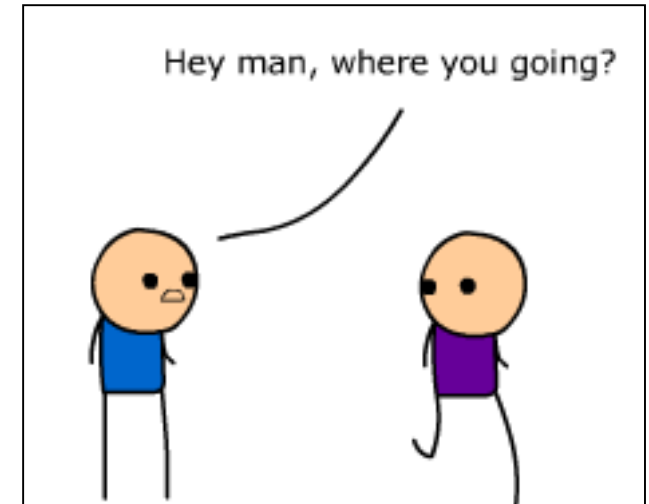
Data Collection

➤ Rubbish In = Rubbish Out

- Origin Destination Matrix
- Pedestrian Counts

➤ Demand Models

- Future Conditions
- High level of Modal Shift



Cyanide + Happiness Explosm.net



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Local Context – Multi Modal

Software set for more disciplined behaviour

- Difficult to capture local behaviour
- Multi Modal interactions
 - Fixed Times for Crossing
 - Fixed locations for Pedestrian

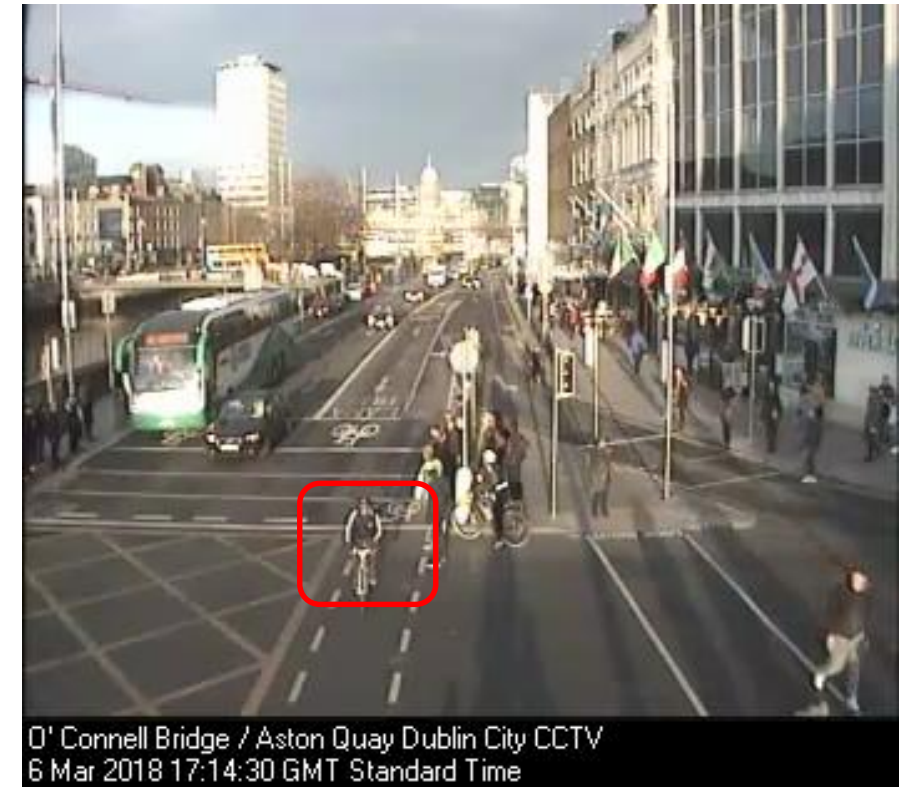
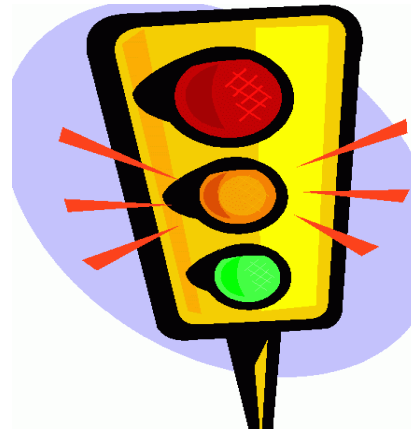


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Local Context

Software set for more disciplined behaviour

- Amber Gamblers
- Red light violation
 - Software allows aggressive driving
 - Do we model for *bad behaviour*



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Auditing

What is the modeller concealing?

- Base Model versus Reality
- Route Selection for transport Modes
- Latent Demand in Model
- Travel Time Savings



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Auditing

Communicating Results

- Quantitative Results
- Visual Results



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Interpretation

Interpreting and Communicating the Modelling Outcomes

- Black Box - Results
- Comparison between design options
- Results -Trends not facts



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Thank you for your attention!

Go raibh maith agaibh! Thank you! Danke! Köszönöm!
Obrigado! **Dziękuję!** благодаря!

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