



- Road building
- Car parking
- Lower density
- Decentralisation

M

Sustainable mobility city

- Public transport
- Cycle networks
- Roadspace reallocation



City of places

- Public realm
- Street activities
- Traffic restraint
- ToD/mixed use developments

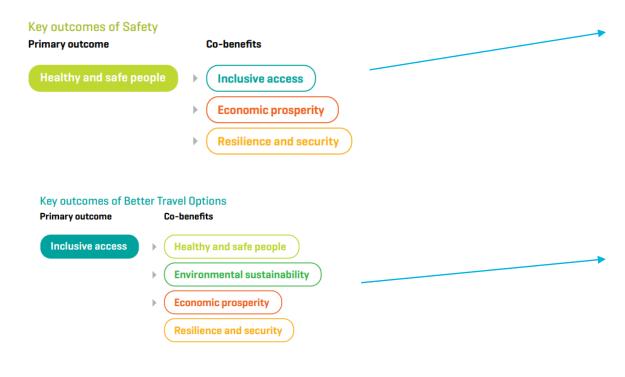






Government Policy Statement on

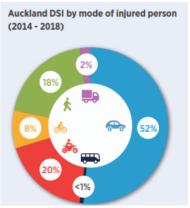
LAND TRANSPORT

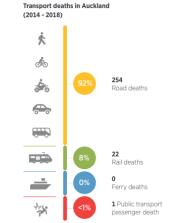


Strategic Priority: Climate Change

Climate Change priority: Transforming to a low carbon transport system that supports emissions reductions aligned with national commitments, while improving safety and inclusive access.

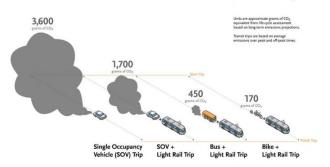








Greenhouse Gas Emissions Per Person Per Trip





Mikhail Chester et al, "Infrastructure and Automobile Shifts: Positioning Transit to Reduce Life-Cycle Environmental Impacts for Urban Sustainability Goals", Environmental Research Letters E. no. 1 (2011). doi:10.1088/1744-9326/8/17015041 Improving how our cities respond to growth to enable improved housing affordability and community wellbeing

What is the National Policy Statement on Urban Development (NPS-UD)?

National direction that sets out objectives and policies for urban development under the Resource Management Act 1991. Councils must give effect to these objectives and policies.

Why do we need an NPS-UD?

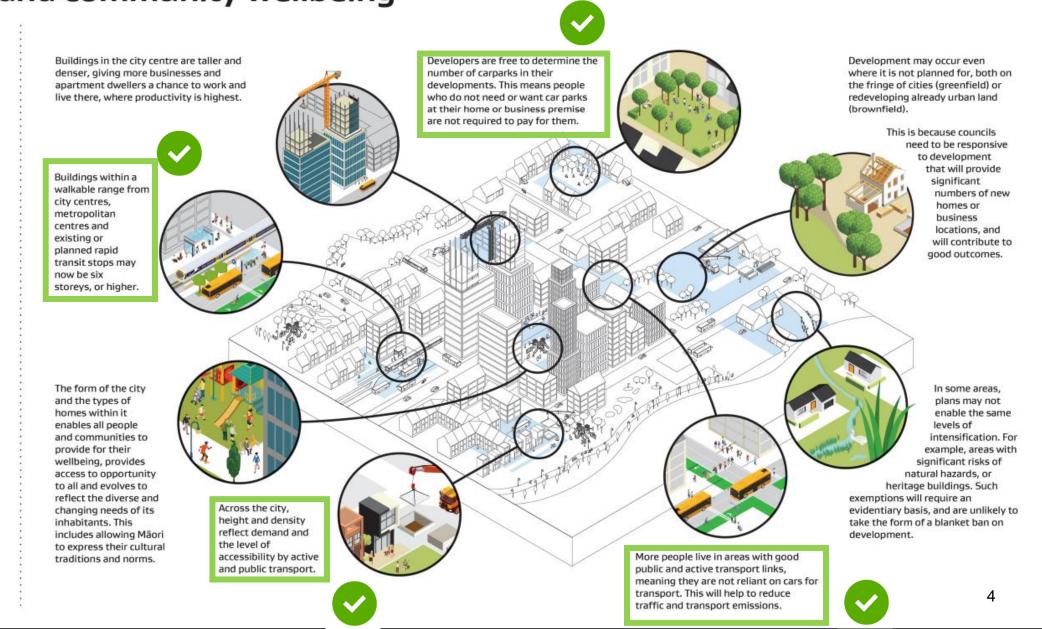
Constraints in the planning system have made it harder for people to build and live in the homes they want, where they want. This has led to high land prices, unaffordable housing, and a system that incentivises land banking and speculation. It has also resulted in people having poor access to employment, education and social services. This impacts most on our poor, vulnerable and younger generations.

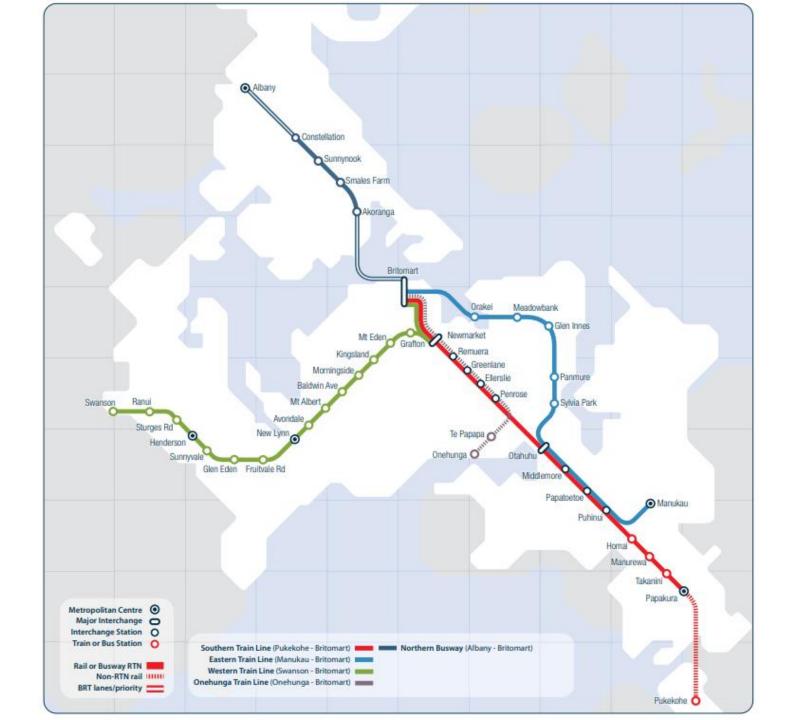
Where does it apply?

Some policies apply only to "Tier 1" local authorities in Auckland, Christchurch, Wellington, Tauranga and Hamilton. These include the most directive policies, particularly regarding intensification.

Others apply to both Tier 1 and Tier 2 (Napier-Hastings, Nelson, Whangarei, Palmerston North, New Plymouth, Rotorua, Dunedin, Queenstown).

The majority of policies, including carparking, apply to all urban environments that have, or are planned to have, more than 10,000 inhabitants.





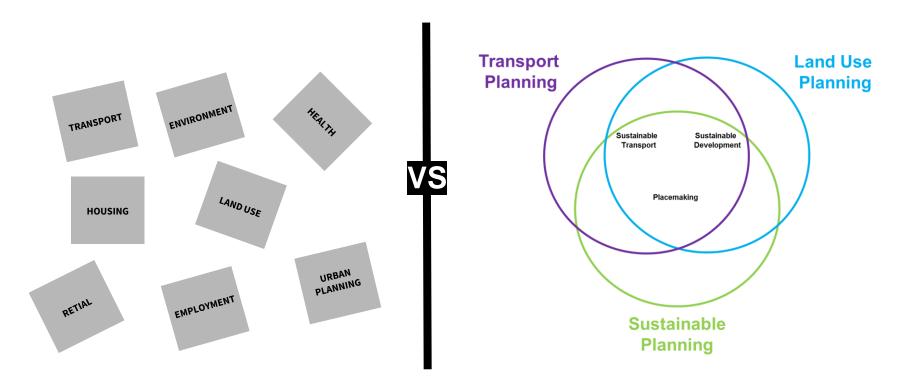
The big 'F' word Funding

How can we decide where we will invest?

- Funding complexity with many private and public stakeholders
- Why should this station get the investment and not another one?
- It is not always clear what is good, bad or ugly and how to assess it
- Station Typology: Road hierarchy example
- Need for cross-sector Decision Support Tools to consistently guide operational and investment decisions around transit hubs to deliver desired outcomes

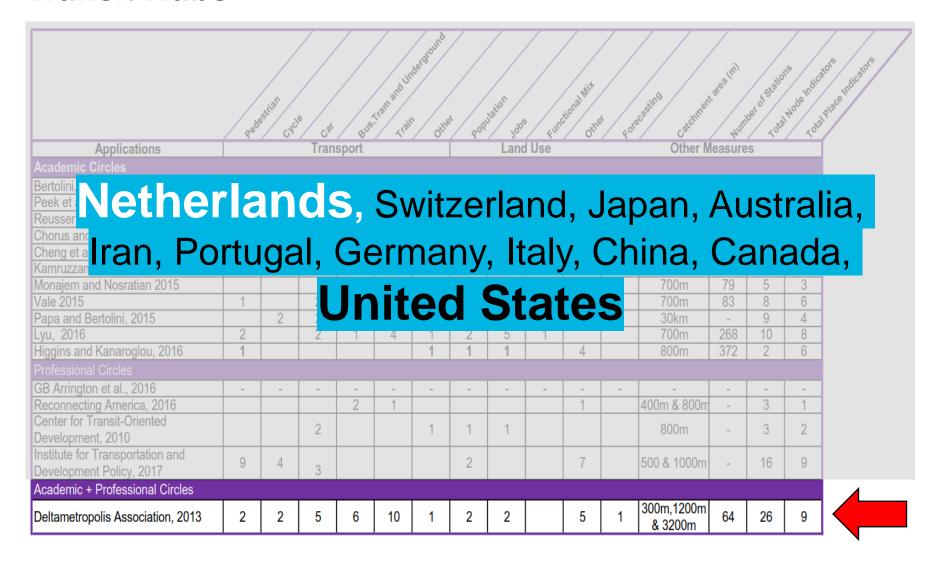
TRADITIONAL PLANNING

CROSS-SECTOR PLANNING



Review of International Decision Support Tools for Transit hubs and surrounding facilities

Review of International Decision Support Tools for Transit Hubs



Maak Plaats: Butterfly Model



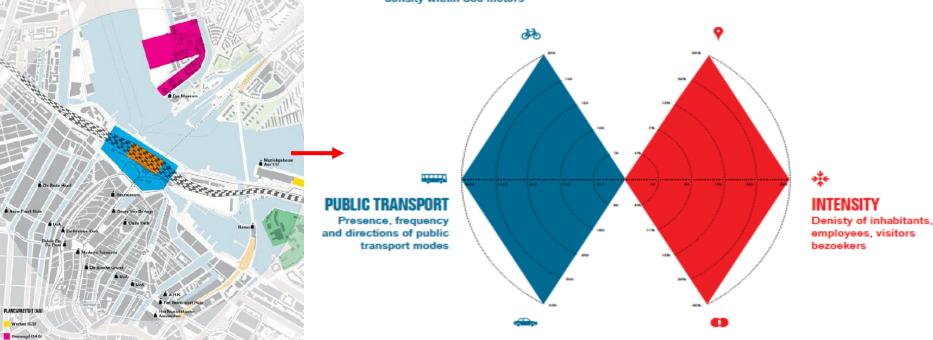
Land Use

SLOW TRAFFIC

Presence of bicycle storage, bicycle rental, and rail crossings, network density within 300 meters

PROXIMITY

Intensity of use in the first 300 meters with respect to the total



ROADS

T

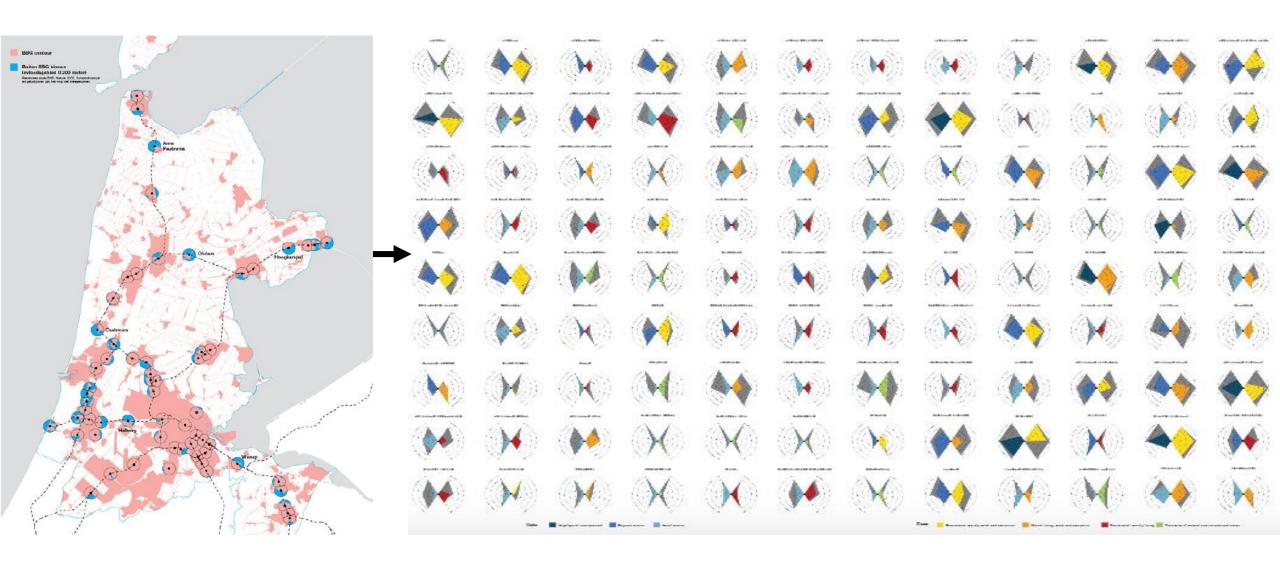
Presence of highways, highway exits, regional roads and parking facilities

DIVERSITY

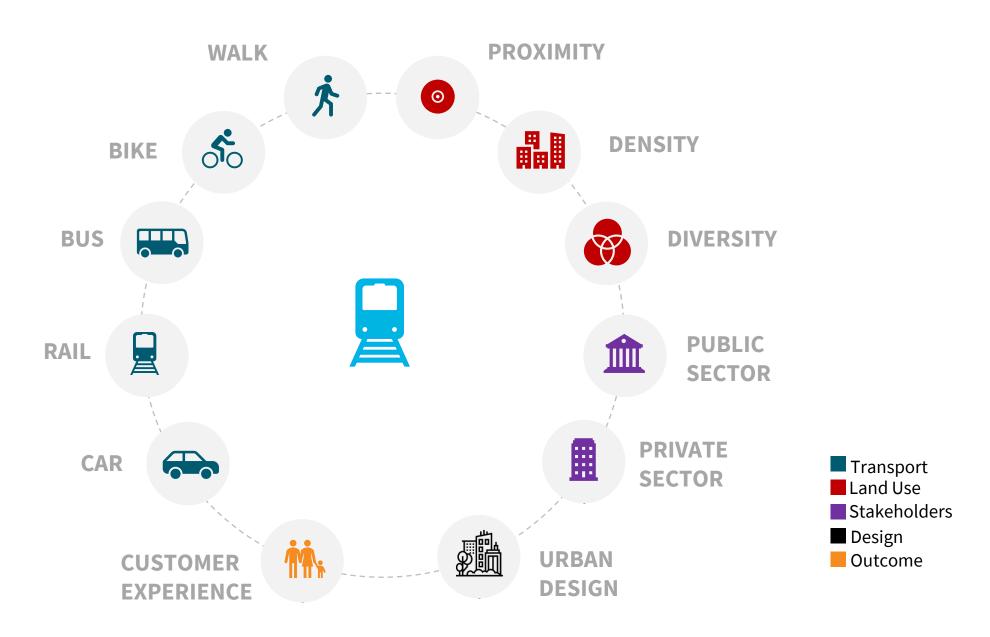
Ratio of inhabitants and emplyees per hectare

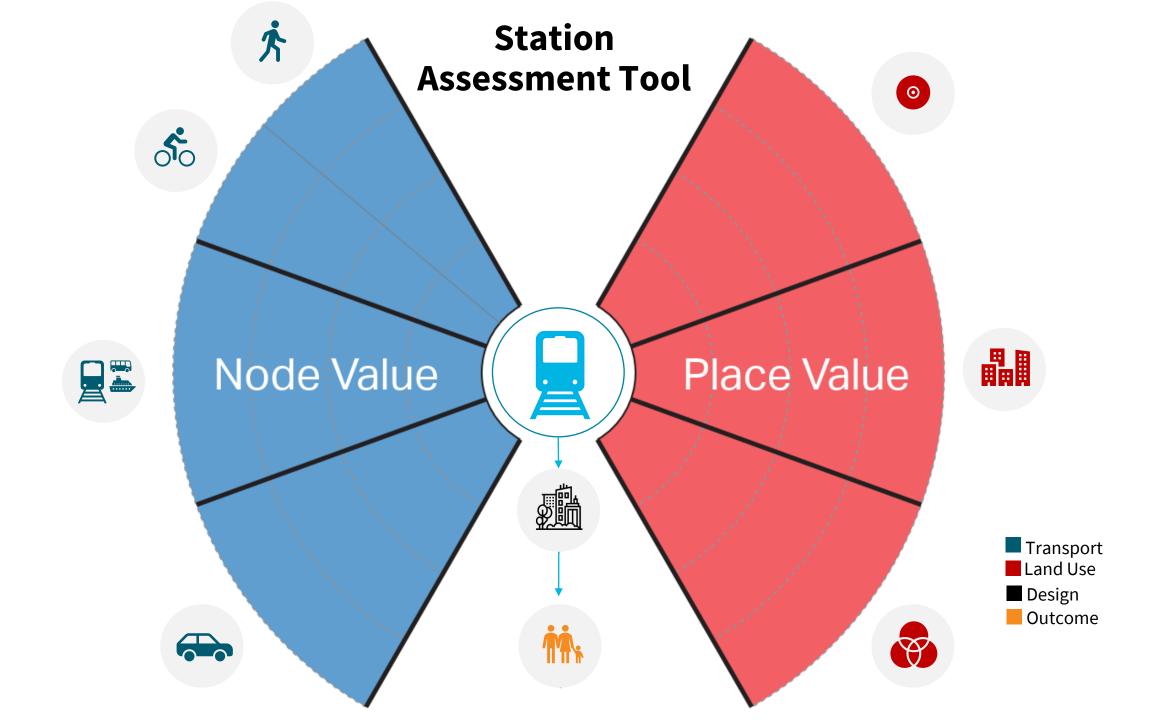
10

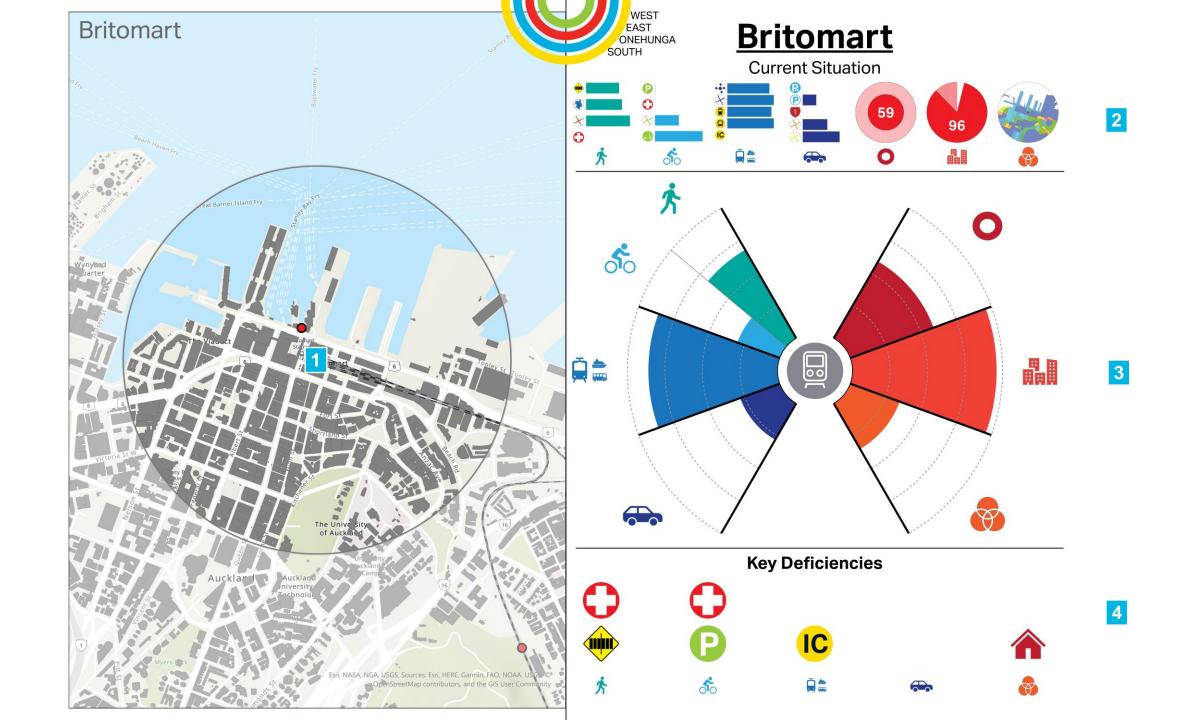
Butterfly Model Applied in Netherlands



Quality Station







Potential Applications

- TOD Decision Support Tool (integrated with transport and land use outcomes)
- Simplify decision making for all stakeholders but still based in strong evidence
- Ongoing measuring tool (baseline and future investment)
- Works well with advancing transport and land use policy outcomes
- Use results to guide investment and planning decisions
- Superb tool to support the NPS-UD Intensification Process and delivering better outcomes

