



The battle for parking

- when even transport planners disagree

Kylie Huard & Sarah Connolly
Stantec New Zealand



Context

DCC Zero Carbon Plan

Emissions and mode share targets

- Net zero by 2030
- Requires 42% emissions reduction from transport
 - **24%** decrease in light fleet travel per capita

Zero Carbon Alliance – 6 largest employers



ZCA Parking Principles

Purpose & Scope




1. Best Practice Report
 - Literature Review
 - Parking Management toolbox
 - Case studies
2. Parking Principles for Zero Carbon Alliance (ZCA)
3. Review of parking practices – 2 organisations



A bit about us...



Sarah, 55
Transport Planner

-  Lives in Dunedin, NZ
-  From London, United Kingdom
-  BSc Geography, MSc Sustainability

Work interests

- Business Cases / Investment Planning
- Policy and Strategy development
- Climate change and emissions reduction

-  5'9"
-  Leo
-  Nature
-  Swimming
-  Reading








Kylie, 50
Transport Planner

-  Lives in Dunedin, NZ
-  From Sydney, Australia
-  BSc Environmental, MEng Transportation

Work interests

- Parking management
- Walking & cycling network planning
- Strategy development

-  5'6"
-  Capricorn
-  Dogs
-  Cycling
-  Gardening



Best Practice Report



Image source: <https://www.divvyparking.com/4-common-workplace-parking-problems-and-how-to-solve-them/>

Literature review

- Parking - the **most** important mode shift factor
- Carrots + sticks **vs** carrots alone
- The role of government
- Organisations can significantly influence mode shift

- Parking management
 - personal, unpopular & contentious

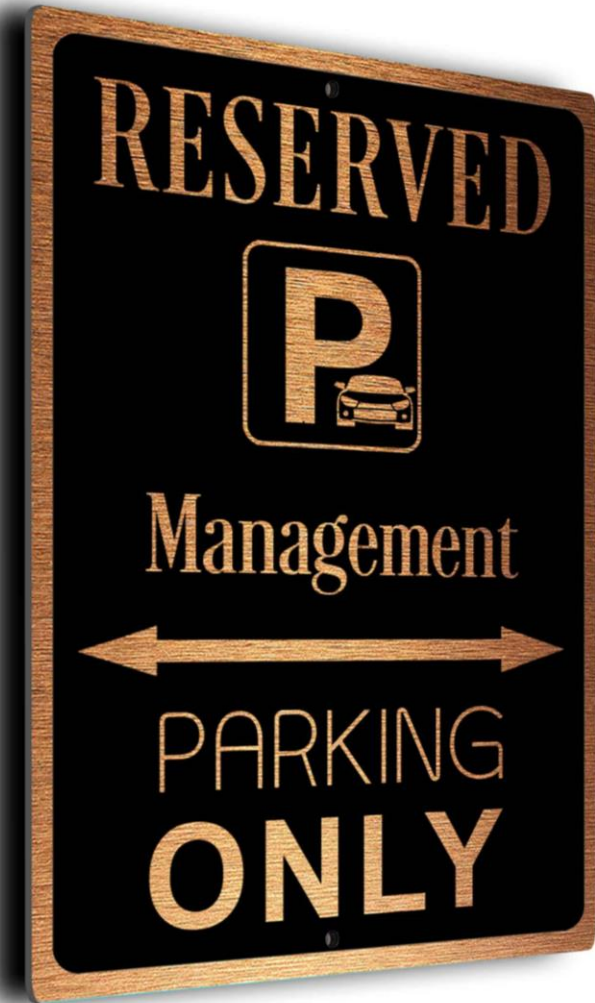


Parking management toolbox

Managing supply

Managing demand

- Prioritising users
- Pricing (general)
- Pricing (emissions-based)
- Optimising parking
- Incentives not to drive



Case Studies

- **Nottingham City Council**
 - Workplace Parking Levy
 - Funds sustainable transport reform
 - Congestion, emissions, economic benefits
- **Optus**
 - Paid parking
 - Priority parking
 - Carpooling scheme
 - Travel clinics





Carpooling



Source image: <https://www.edenredbenefits.com/blog/how-carpooling-benefits-employees-employers-the-planet>



Carpooling

Sarah

- A bit mixed
- Framed by experience @ Met Office (UK) & DCC
- Addresses PT deficiencies

Kylie

- Cynical
- Framed by experience @ Councils & Monash Uni
- Issues with uptake, admin, enforcement, fraud

Outcome

- Dynamic carpooling enabled by tech

Source image: <https://www.edenredbenefits.com/blog/how-carpooling-benefits-employees-employers-the-planet>

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Ride-share parking dumped

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By David Loughrey

News > Dunedin

A ride-share parking system for Dunedin's tertiary area has been dumped after 10 years, after confirmation it was only "marginally successful", could not be enforced easily and was subject to significant abuse.

Dunedin City Council transportation planning manager Sarah Connolly said staff had tried a variety of methods to deal with the scheme's problems, but had "run out of solutions".

Before it winds up next March, council staff will review the 165 on-street parks used by the scheme to decide what should replace them and identify any other changes that would make parking more convenient.

A report to yesterday's planning and environment committee recommended the council abandon the scheme from next March, when existing registrations expire.



Sarah Connolly.



EVs and low emission vehicles



EVs and low emission vehicles

Kylie

- Negative (Petrol vehicle owner / cyclist)
- Not available to some people
- EVs not the silver bullet – congestion, parking demand

Sarah

- Positive (owner of an old EV)
- Equity (is this real? Can it be managed?)
- Confused with charging

Outcome

- Too complex for workplaces to manage





Key findings

- **DP required workplaces to provide parking**
 - NPS provides opportunity to reduce supply
 - Parking levy effective tool to encourage this
 - Workplaces subsidise driving but not people using other modes
- **Parking revenue is addictive**
 - Balancing emissions & revenue KPIs is challenging
- **Carpooling can help with transition to reduce travel demand**
 - Free or cheaper parking a major incentive
- **Transport and parking is nuanced**
 - influence of personal values and biases on decision making
- **Being challenged enhances critical thinking** – more robust solutions