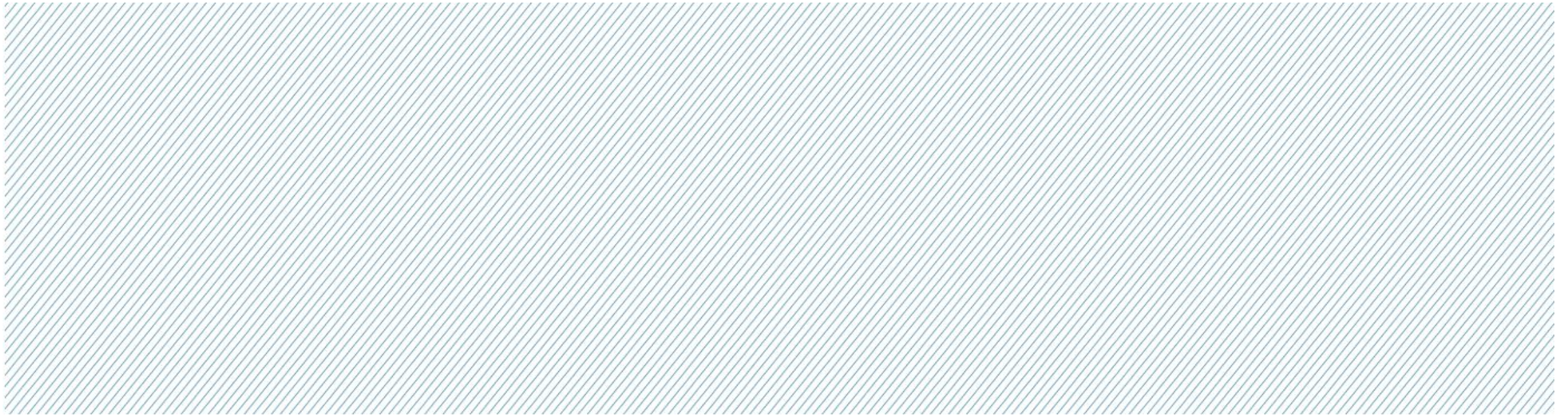

Understanding the pedestrian experience and encouraging better walking environments

Jane Goulding and Samantha Watson

NZTA



The Pedestrian Experience

A Literature Review by Jane Goulding



Walking in the Transport System

Every journey has an element of walking



It's integral to the system, influenced by a range of factors and an influencer itself

///
 You are
 pedestrians.

Yes.

All of you.



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The Literature Review

Local and international literature on pedestrian customer experience: considering pedestrian experiences, behaviours, needs, incentives and barriers, primarily from perspective of the user

Why? An understanding of the tasks, limitations, and needs of different pedestrians will increase the ability to provide targeted incitement and improved equity to increase pedestrian participation





Start with the basics... complete, continuous, and safe walkway networks ...that go somewhere (proximity, density, diversity, pleasant stimulation)



Pedestrian guidance has not yet found expression on the streets. Streets are vehicle centric in design.



There is little to no information on rural pedestrian experience and behaviour. What there is suggests there is little pedestrian participation in rural areas.



Pedestrian experience is diverse and some experiences may be overlooked. Within group nuances need to be considered



If different experiences are not properly accounted for in planning, it becomes a question of equity



Inconsistent and vehicle centric measures lead to a lack of good evidence to inform planning

Why not??



(Cheyne, C., Imran, M., Scott, M. & Tien, C., 2015; Thompson, 2009; Bean, 2006; DiGuseppi & Roberts et al., 1998; Cleland & Walton, 2004; Walton & Sunseri, 2007; Bean, 2006; Mann & Abraham, 2006; Morency et al., 2014; Cole, R., Leslie, E., Donald, M., Cerin, E., & Owen, N., 2008)

Psychosocial



(Verhoeven, Simons, Van Dyck, Van Cauwenberg, Clarys, De Bourdeaudhuij, et al., 2016; Ball et al., 2001; Thomson, 2009; Heinen et al., 2013; Timperio, Crawford, Telford & Salmon, 2004; Zivaini, Scott, et al.; 2004; Cole, R., Leslie, E., Donald, M., Cerin, E., & Owen, N., 2008; Walton & Sunseri, 2007; Mann & Abraham, 2006; Rose et al., 2009; Kent, 2014)

Safety



(Bean, 2006; Badland, Schofield & Garrett, 2008; Badland et al., 2009; Garrard, 2010; Taylor, 2009; Burt, R. Chow, K. Donohue, R. Sani, H. Taylor, K. Towns, C. Yelavich, S, 2005; Ausserer, Risser, Kaufman, Barker, Johansson & Leden, 2010; Crime Concern, 1997; Hamilton, 2000; DiGuseppi, Roberts et al., 1998; Cheyne, C., Imran, M., Scott, M. and Tien, C., 2015; Bernhoft & Carstensen, 2008; De Jong, Kaufman, Roivas, Rocakova, 2010)

Poor (traffic centric) design



(Sullivan and O'Fallon, 2006; Komnianou, D., et al, 2008; Sullivan & Gunnarsson (ed.), 2001; Basbas, Konstantinidou, Moreno & Ribas, 2010)

Comfort



(Living Streets, 2001; Ausserer, Risser, Kaufman, Barker, Johansson & Leden, 2010; Hass-Klau, Dowling & Nold, 1994; de Araujo & de Camargo Braga, 2008; Komnianou, D., et al, 2008; Timperio, Crawford, Telford & Salmon, 2004)

Providing for walking

Identifying how we can encourage a better walking environment

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Aim of the research

Understand the suitability of current funding policy and planning & design guidance:

- Pedestrian planning and design guide (2009)
- RTS14 Guidelines for facilities for blind and vision impaired pedestrians (2015)
- Subsidise walking projects, and maintenance and renewals of pedestrian facilities through the NLTP (informed by the GPS)

This research involved a technical review of these documents and industry engagement through online surveys and case studies.

Pedestrian planning and design guide



New Zealand Government

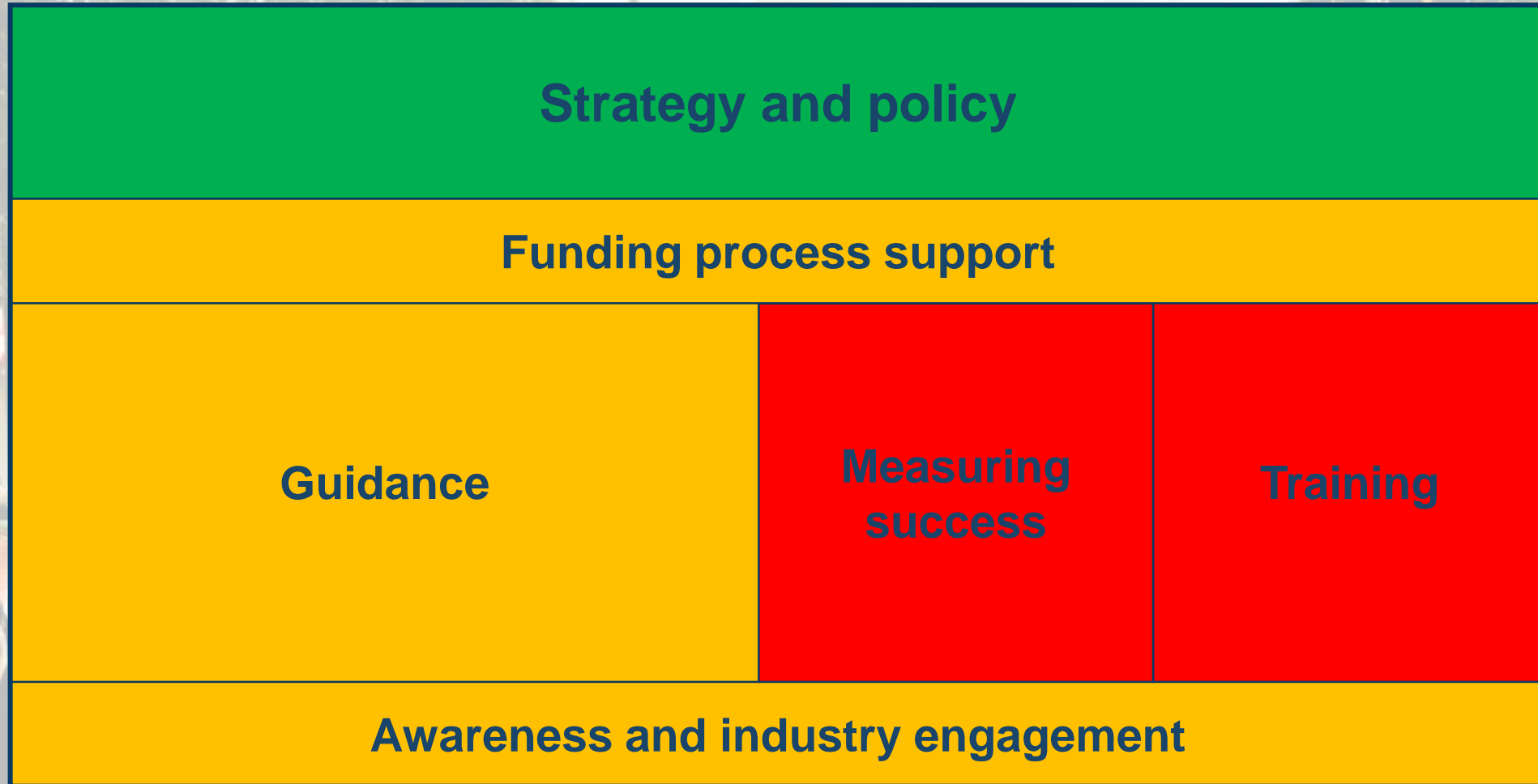
RTS 14 – Guidelines for facilities for blind and vision impaired pedestrians

3rd Edition – May 2015

Road and Traffic Standard Series



How are we doing?



How are we doing?

Funding process support:

- Economic Evaluation Manual: Guidance and the simplified procedure for smaller proposals provide a clear process for undertaking an economic assessment of pedestrian facilities...but the EEM encourages improvements for vehicles, potentially constraining walking investment
- Need a single point of guidance for how all guidance documents relate to each other and how they are applied to pedestrian facilities

Guidance:

- PPDG and RTS14 are helpful and relevant but need to be updated
- Local guidance (e.g. Codes of Practice) may be inconsistent with the PPDG and the RTS14



How are we doing?

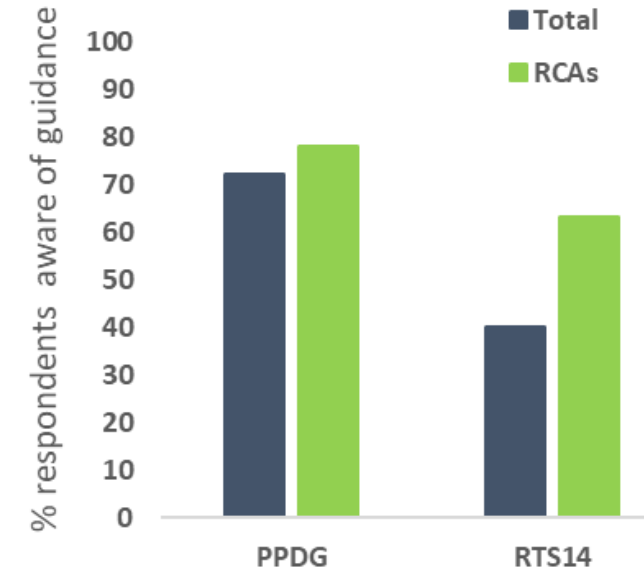
Awareness, training and engagement:

- Some consultants and local authorities are not aware of the guidance, and guides aren't necessarily being regularly used
- Barriers to implementing included cost, conflict with other outcomes, and layout design and installation of improvements being done incorrectly
- Need further engagement around supporting walkability through land use planning, and with the disability sector around areas not covered in guidance
- Reviewing and auditing projects before and after implementation could be done better to ensure design aspects are provided as per the guidance

Measuring success:

- Need good baseline information to see how we're doing to improve walkability

Awareness of Guidance



Opportunities for development

Funding process support	<ul style="list-style-type: none">• Investment Decision-Making review may present an opportunity to provide clearer guidance & support for local authorities around the funding process, and will include reviewing/updating the EEM
Guidance	<ul style="list-style-type: none">• Update guidance, and combine the PPDG and the RTS14 into one easily accessible guidance resource• Embed pedestrian design principles in all NZ Transport Agency documents• Engage with the disability sector around planning and design aspects not already covered in the guidance
Measuring success	<ul style="list-style-type: none">• Research is going forward to further develop a pedestrian LoS tool• Looking to establish baseline data, and KPIs to measure against
Awareness, training & engagement	<ul style="list-style-type: none">• Increase awareness• Consider industry training• Engage further with Property Council & NZ Planning Institute



We have a great opportunity to encourage more walking, and a better walking environment.

Thank you!

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