

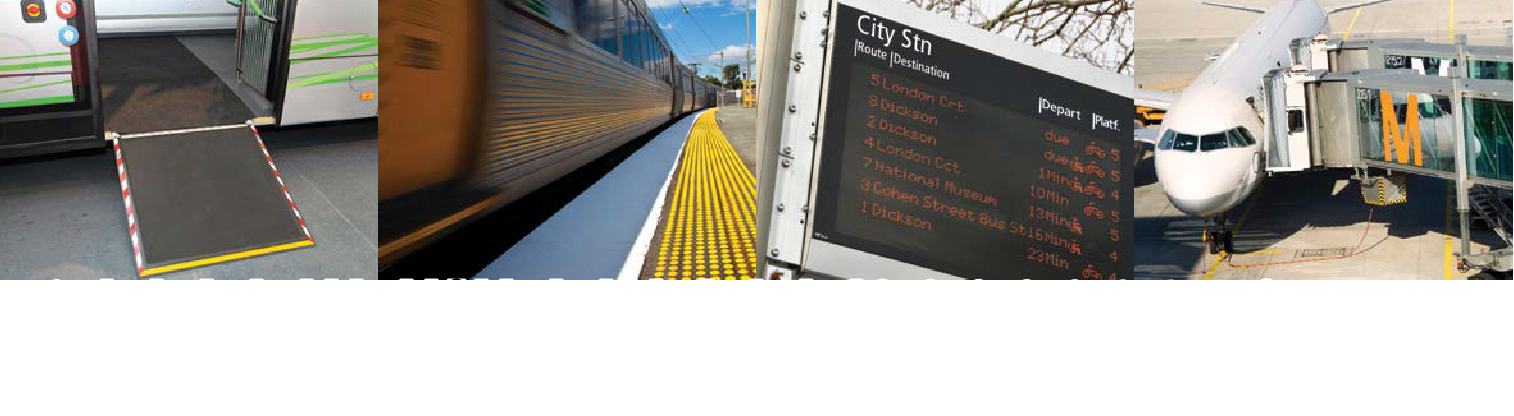




# The Whole Journey

# A guide for thinking beyond compliance to

# create accessible public transport journeys



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# Foreword

Public transport is for everyone, with no exclusions. I welcome the development of the *Whole Journey: A guide for thinking beyond compliance to create accessible public transport journeys* in response to the Second Review of the Disability Standards for Accessible Public Transport and applaud the way it elevates the importance of the public transport journey for people with disability.

The National Disability Strategy 2010–2020 identifies accessible public transport as a key factor in the capacity of a person with disability to participate in, and contribute to society and the economy.

In 2015, almost one in five of us lived with disability (4.3 million people) with around

half of people with disability aged 15 to 64 years participating in the labour force. This is considerably fewer than those without disability. Better public transport can help change this.

A key theme to emerge from the most recent review of the Disability Standards for Accessible Public Transport 2002 (Transport Standards) was the need to work across government and other boundaries to improve the whole journey for people with disability. The Transport Standards enable public transport operators to demonstrate how discrimination has been removed from public transport services.

The Transport Standards also help to ensure Australia meets its international obligations. The ratification of the United Nations Convention on the Rights of Persons with Disabilities (CRPD) in 2008 reflects the Australian Government’s commitment to promoting and supporting the equal and active participation by people with disability in economic and social life.

The Guide highlights that it is far better to consider the whole journey at the start of the transport planning process, and that this consideration can go beyond compliance with the regulations. A journey is made up of many parts, and every part must be addressed to ensure a successful outcome. By examining the journey from pre-journey planning through to public transport, return journey planning, disruption and supporting infrastructure, the Guide shows how each part can be improved and lead to a better outcome for people with disability.

This Guide was developed with the direct input of people with disability as well as input from those who will use it, such as transport planners, transport operators, architects, engineers, builders and certifiers. It is based on national research and in-depth consultations and workshops with stakeholders including disability organisations, public transport providers, all levels of government, service providers and other interested individuals.

I believe it demonstrates what can be done by working together and thinking beyond compliance to create accessible public transport journeys.

I welcome the endorsement of the *Whole Journey: A guide for thinking beyond compliance to create accessible public transport journeys* by my ministerial colleagues at the Transport and Infrastructure Council, and I look forward to working cooperatively with all jurisdictions to see what we can achieve as we embrace the whole journey of public transport accessibility.



The Hon. Darren Chester MP

Minister for Infrastructure and Transport.

# Contents

1. [Introduction 1](#bookmark0)
   1. [Transport Standards and the whole journey 3](#bookmark1)
   2. [Who should use *The Whole Journey Guide*? 4](#bookmark2)

[1.3 Benefits of focusing on the whole journey 5](#bookmark3)

[1.4 Consultation on the Whole Journey Guide 6](#bookmark4)

1. [Influencing factors 7](#bookmark5)
   1. [The varied needs of users 7](#bookmark5)
   2. [Universal design considerations 7](#bookmark5)
   3. [Drivers of change 9](#bookmark6)
   4. [Urban design 10](#bookmark7)
   5. [Integrated planning 11](#bookmark8)
   6. [Governance and management of places 12](#bookmark9)
   7. [Liveability 12](#bookmark9)
2. [Parts of a journey 13](#bookmark10)
   1. [Pre-journey planning 14](#bookmark11)
   2. [Journey start and end 19](#bookmark12)
   3. [Public transport stop, station or terminal 24](#bookmark13)
   4. [Public transport service 30](#bookmark14)
   5. [Interchange 35](#bookmark15)
   6. [Return journey planning 40](#bookmark16)
   7. [Supporting infrastructure 45](#bookmark17)
3. [What does this mean for us? 50](#bookmark18)
   1. [We all influence accessible public transport 50](#bookmark18)
   2. [Focus on human-centred design 50](#bookmark18)
   3. [Accessible formats, data, apps and technology 51](#bookmark19)
   4. [Maintaining the human touch 51](#bookmark19)
   5. [Infrastructure lifecycle from planning/procurement to decommissioning 52](#bookmark20)
   6. [Communicate, don’t correspond 52](#bookmark20)
   7. [Knowledge capture and sharing 53](#bookmark21)
   8. [Accessibility when things go wrong 53](#bookmark21)
4. [Implementation 54](#bookmark22)
   1. [Mainstreaming whole journey thinking in business practice 54](#bookmark22)
   2. [Working in partnership 55](#bookmark23)
   3. [Regional and remote challenges 56](#bookmark24)
   4. [Education and training 58](#bookmark25)
5. [Acknowledgements 59](#bookmark26)
6. [References 62](#bookmark27)

# Acronyms

DDA *Disability Discrimination Act 1992*

MLAK Master Locksmith Access Key

NDIS National Disability Insurance Scheme NDS National Disability Strategy 2010–2020 TGSI Tactile Ground Surface Indicator WCAG Web Content Accessibility Guidelines

# Introduction

This guide provides advice on how transport planners and providers, architects, engineers,

builders, certifiers and all levels of government can work together with people with

disability to make public transport more accessible.

There are a variety of standards across government and industry that must be complied with in relation to designing and building public infrastructure. This guide asks us to go beyond compliance to deliver better outcomes.

The Disability Standards for Accessible Public Transport 2002 (Transport Standards)1 are made under subsection 31(1) of the Commonwealth [*Disability Discrimination Act 1992*](https://www.legislation.gov.au/Details/C2016C00763)(DDA)2. The Minister for Infrastructure and Regional Development is responsible for providing public transport policy advice on the Transport Standards.

Before the Transport Standards were introduced––while certain obligations existed in the DDA and individuals had the right to lodge discrimination complaints––there was no

focused effort to remove discrimination from Australia’s public transport systems including aircraft, buses and coaches, ferries, taxis, trains, trams, light rail, motor rail, rack railways and other rolling stock.

The Transport Standards provide a level of certainty to operators and providers of public transport services and infrastructure on their responsibilities under the DDA. The standards identify target dates for compliance within a 20 year timeframe, and

30 years for certain trains and trams. The standards also help ensure Australia meets its international obligations.

The ratification of the [United Nations Convention on the Rights of Persons with Disabilities](https://www.un.org/development/desa/disabilities/convention-on-the-rights-of-persons-with-disabilities.html)3 in 2008 reflects Australia’s commitment to promoting and supporting equal and active participation by people with disability in economic and social life. The DDA and Transport Standards are important for Australia to meet its international obligations.

There are also a number of support programs. For example, the Australian Government has established the [National Disability Insurance Scheme](https://www.ndis.gov.au/) (NDIS)4 to support people with a permanent and significant disability which affects their capacity to take part in everyday activities.

Line

1 [https://www.legislation.gov.au/Details/F201](http://www.legislation.gov.au/Details/F2011C00213)1C00213

2 [https://www.legislation.gov.au/Details/C2016C00763](http://www.legislation.gov.au/Details/C2016C00763)

3 [https://www.un.org/development/desa/disabilities/convention-on-the-rights-of-persons-with-disabilities.html](http://www.un.org/development/desa/disabilities/convention-on-the-rights-of-persons-with-disabilities.html)

4 [https://www.ndis.gov](http://www.ndis.gov.au/).au/

In the 15 years since the Transport Standards were established, there has been a significant change in the way that governments, public transport operators and providers address access to public transport for people with disability. In this context, the DDA requires the Transport Standards to be reviewed every five years, with the first review commencing in 2007 and the second in 2012. The next review is scheduled to commence in 2017.

The [Second Review of the Transport Standards](https://infrastructure.gov.au/transport/disabilities/review/2012.aspx)5 found them effective in bringing forward investment in accessible infrastructure and conveyances, and requiring public transport operators and providers––public and private––to plan and implement upgrades to their transport assets.

The second review also found the Transport Standards were effective in reducing discrimination on the grounds of disability, but that progress towards compliance was continuing. Still, there were a number of areas where improvements could be made.

One of these is addressing whole-of-journey accessibility, one of seven key recommendations from the review. This document, *The Whole Journey: a guide for thinking beyond compliance to create accessible public transport journeys* (The Whole Journey), has been prepared to address this recommendation.

#### Disability Standards for Accessible Public Transport, Second Review Report Recommendation 4

##### “That the Australian Government, jointly with state, territory and local governments, develop accessibility guidelines for a whole-of-journey approach to public transport planning by 30 June 2016.”

The [Australian Government’s Response to the second review](https://infrastructure.gov.au/transport/disabilities/review/2012.aspx) 6, also agreed to work jointly with state and territory governments to update and modernise the Transport Standards.

This process is being undertaken in close consultation with industry, local government and the disability sector, and includes consideration of current alternative and innovative design solutions.

5 <https://infrastructure.gov.au/transport/disabilities/review/2012.aspx>

6 <https://infrastructure.gov.au/transport/disabilities/review/2012.aspx>

* 1. Transport Standards and the whole journey

Whole-of-journey planning is about creating complete, seamless journeys for public transport users – journeys from A to B and to C to D and back again. Public transport is a crucial aspect of liveability in any community, providing an alternative option to private vehicles. Public transport seeks to offer cost effective, environmentally sustainable mass transport services for those who choose to use it, as well as those who have no other transport choice due to their age (young or elderly), economic situation, lack of a driver’s licence or disability. For these people especially, public transport is key to their participation and inclusion in society.

Delivering an accessible, whole public transport journey is important not only for those with permanent disability, but also for people who may have a temporary disability––such as

an injury––as well as older people, pregnant women, people travelling with children, and people who are in unfamiliar locations or carrying luggage, goods or equipment.

#### Quote from to the second review of the Transport Standards – National Disability Services

##### “The success of the Transport Standards is about achieving access for the ‘whole journey’. The standards are only a means to an end. Success is not achieved with partial implementation: for example, a train door may be wide enough but if a person cannot access timetable information they cannot use the train. Real success is only achieved when people are able to make the whole journey.

**Whole-of-journey accessibility requires that accessible provision is consistent and reliable. It only takes one ‘stranding’ or one barrier along the journey for a person to lose confidence with the transport system and to disable further participation.”**

The DDA allows the Australian Government to make standards to ensure that people with disability are not discriminated against, and to provide information about these standards. The purpose of the Transport Standards is to enable public transport operators and providers to remove discrimination from their services.

The Transport Standards do this by providing technical clarity. This includes extensive technical criteria for certain parts of a public transport journey, including stops, terminals and public transport vehicles. They have created a wave of positive change across

all aspects of the public transport that they cover. The standards also interact with the

[*Disability (Access to Premises – Buildings) Standards 2010*](https://www.legislation.gov.au/Series/F2010L00668)7.

7 [https://www.legislation.gov.au/Series/F2010L00668](http://www.legislation.gov.au/Series/F2010L00668)

There are however many other aspects of a person’s journey that are not addressed by the standards. Even in public transport systems that otherwise comply with prescribed accessibility standards, people with disability often face a range of barriers to a seamless accessible journey.

While some guidance on whole-of-journey planning is available at the local, state and territory government levels, there has been no guidance at the national level to help operators and providers to address whole-of-journey accessibility.

In developing the Whole Journey Guide, the Australian Government’s intention is to promote thinking beyond compliance. This includes facilitating best practices based on innovation and continuous improvement, human-centred design, understanding,

consultation and collaboration. Accordingly, the Whole Journey Guide is not intended to be a legally enforceable standard, nor guidelines to the Transport Standards. Instead it seeks to examine each element of the journey to provide direction and highlight the experiences people have within and between the different parts.

However, it is also recognised that some individual elements within the guide, and practices arising from future developments as a result of the guide’s use, may suggest consideration of new or amended standards in specific areas. The five-yearly reviews of the Transport Standards provide opportunities for this to occur.

* 1. Who should use *The Whole Journey Guide*?

This guide is designed to encourage policy makers, planners, designers, builders, certifiers

and operators to think beyond compliance and the physical and governance boundaries of services and infrastructure, and to focus instead on people’s accessibility needs across their whole journey.

This means a change of focus from providing compliant public transport infrastructure or services to enabling a travel experience that is accessible, comfortable, seamless, efficient and cost effective.

The Whole Journey Guide also provides a resource for people with disability to use when discussing whole-of-journey accessibility and by informing those not familiar with accessible transport solutions.

This whole journey approach requires cooperation and discussion between those who deliver, service and use parts of the transport system. Everyone needs to work together to identify issues, solutions and opportunities.

#### Carolyn, Victorian public transport user:

##### “Better and compulsory training in disability access (understanding the DDA,

**not just complying with standards) is needed for people responsible for planning, purchasing, and delivering services, from the ones designing and ordering new rolling stock or modifying existing infrastructure, through to those delivering the service: ticket sales, drivers, etc.”**

This includes:

* Australian, state and territory government agencies
* local governments
* public transport infrastructure owners
* public transport service providers
* architects
* landscape architects
* urban designers
* strategic and urban planners
* transport planners
* engineers
* building certifiers
* accessibility consultants/auditors
* software/website designers
* builders
* owners of private facilities
* retailers
* building managers
* precinct managers
* academia/researchers
* public policy makers
* disability support workers and agencies

## Benefits of focusing on the whole journey

In 2015 there were 4.3 million Australians with disability, representing 18.3 per cent of the population (Australian Bureau of Statistics, 2015). Around half of Australians aged 65 years or more reported having disability. Given Australia’s growing and ageing population, the number of people with disability will continue to increase.

People with disability are more likely to experience social and economic disadvantage because of more limited opportunities to earn income and the high cost (in proportion to their income) of their housing, travel, medical and other needs. In many cases disability restricts people from driving a private vehicle, either through physical or cognitive ability or the lack of economic resources to own and operate a car. For many people, the perceived or real inaccessibility of public transport leaves them reliant on family or friends, or particular types of public transport such as the taxi system and the increasingly popular ride-share. This reliance on others to drive them where they want to go affects their ability

to participate independently in many social, economic or cultural aspects of the community.

Access to public transport opens up opportunities for personal empowerment, social inclusion and community participation. People can choose to travel to see friends and family, and participate in social and cultural activities or other initiatives such as training or education. Accessible public transport allows individuals to travel based on their requirements (such as cost, time of day, urgency of travel, length of the journey, interchanges etc.) rather than having to rely on private transport options.

Public transport is cost effective for individuals and the economy. Improving the accessibility of public transport can promote more efficient transport decisions by individuals, and increase the customer base as more people are able to travel for work, business or study. This improves productivity and supports a stronger economy.

## Consultation on the Whole Journey Guide

The guide has been developed with the community, industry and governments, drawing on their extensive knowledge and experience. Its development was overseen by the National Accessible Public Transport Advisory Committee.

Initially this involved in-depth consultations and workshops around the nation with stakeholders including disability non-government organisations, public transport providers, and all levels of government, service providers and other interested individuals.

The draft guide was available for public comment from 27 March to 14 June 2017 and 43 formal submissions were received. During this time the Department of Infrastructure

and Regional Development also partnered with Disabled People’s Organisations Australia to hold in-depth focus group workshops with people with disability in Sydney, Brisbane, Perth and Darwin.

The consultations provided valuable additional material which the Department has sought to incorporate as far as practical, while keeping the guide to a length that is readable and consistent with its intended purpose. This includes promoting ‘thinking beyond compliance’ by facilitating best practices based on innovation and continuous improvement,

human-centred design, understanding, consultation and collaboration.

Some issues raised within the submissions have been identified for consideration as part of the current modernisation of standards being undertaken by the Department of Infrastructure and Regional Development (see also section 1.1 above).

The submissions may provide readers with further information and perspectives. This includes viewpoints of organisations representing people with physical, vision, hearing, intellectual or other disability.

Submissions are available on the Department’s website [infrastructure.gov.au](http://www.infrastructure.gov.au/transport/)/transport/.

The views or recommendations of third parties do not necessarily reflect the views of the Department of Infrastructure and Regional Development or indicate its commitment to a particular course of action.

# Influencing factors

There are a range of factors that sit outside the public transport system but which influence the accessibility of a journey using public transport. This section highlights some of the influencing factors to be considered when planning for whole-of-journey accessible

public transport.

## The varied needs of users

The expectations of people with disability are just as varied as those of other public transport users – they have their own individual needs and preferences.

The availability of accessible public transport is, or should be, the key to independence and participation for many people with disability.

Some disabilities are clearly identifiable, others are not, and each person will have varying levels of comfort in talking about their access requirements. Some people require high levels of assistance, while for others, just a few small access improvements can make a world of difference to their journey.

Everyone involved in the provision of accessible public transport has a responsibility to understand and respect these differences as they work towards enabling transport users to more easily participate in and travel through the built environment.

Accessibility should be top of mind in our decision-making, not an afterthought when faced with compliance requirements. This thinking will benefit all users, not just those with accessibility requirements.

## Universal design considerations

As outlined in the [National Disability Strategy 2010-2020](https://www.dss.gov.au/our-responsibilities/disability-and-carers/publications-articles/policy-research/national-disability-strategy-2010-2020):8

“*Taking a universal design approach to programs, services and facilities is an effective way to remove barriers that exclude people with disability. Universal design allows everyone, to the greatest extent possible, and regardless of age or disability, to use buildings, transport, products and services without the need for specialised or adapted features.*

*The principles of universal design can also be applied to the design of programs run by government, businesses and non-government organisations. This will result in greater efficiency by maximising the number of people who can use and access a program without the need for costly add-ons or specialised assistance.*

8 [https://www](http://www.dss.gov.au/our-responsibilities/disability-and-carers/publications-articles/policy-research/).dss.gov[.au/our-responsibilities/disability-and-carers/publications-articles/policy-research/](http://www.dss.gov.au/our-responsibilities/disability-and-carers/publications-articles/policy-research/) national-disability-strategy-2010-2020

*Universal design assists everyone, not just people with disability. For example, wider doorways are better for people with prams, while decals on fully glazed doors help to keep everyone safe. Providing information in plain language can assist people who speak English as a second language and people with low literacy. As the population ages, the presence of disability will increase, and adopting a universal design approach will become even more important.”*

Important elements of universal design (based on Audirac, 2008) include:

* + **Accessible design:** designing for equal useability for all with regard to mobility, facilities, devices and services, and incorporating disability access standards.
* **Inclusive design:** designing products and services for the needs of the widest possible audience.
* **User-centred design:** placing users’ perspectives and needs at the centre of the design process.
* **Barrier-free design:** constructing or retro-fitting infrastructure and vehicles to eliminate barriers and obstacles that would otherwise restrict the range of users and purposes for which the space can be used.
* **Trans-generational design:** improving quality of life for people of all ages and level of mobility both now and into the future.
* **Assistive technology:** engineering that supports improved access for people with disability to complete tasks by increasing, maintaining or improving the functional capabilities and independence to facilitate accessibility and participation.

The Australian Local Government Association’s Disability Inclusion Planning: A Guide for [Local Government](http://alga.asn.au/?ID=14814&amp;Menu=50%2C601)9 (October 2016) is a valuable tool for integrating disability inclusion planning within organisations.

While it was developed for use by councils, it also provides a more general resource to inform design matters in the context of the [National Disability Strategy 2010–2020](https://www.dss.gov.au/our-responsibilities/disability-and-carers/publications-articles/policy-research/national-disability-strategy-2010-2020)10

(NDS), the introduction of the [National Disability Insurance Scheme](https://www.ndis.gov.au/)11 and responding to the requirements of state, territory and Commonwealth legislation and policy. The guide’s suggested steps for disability inclusion action planning are:

* allocate **responsibility**
* **consult** with the community and staff
* map your **operating environment**
* determine **governance and accountability**

9 <http://alga.asn.au/site/misc/alga/downloads/publications/Disability_Inclusion_Planning.pdf>

10 [https://www](http://www.dss.gov.au/our-responsibilities/disability-and-carers/publications-articles/policy-research/).dss.gov[.au/our-responsibilities/disability-and-carers/publications-articles/policy-research/](http://www.dss.gov.au/our-responsibilities/disability-and-carers/publications-articles/policy-research/) national-disability-strategy-2010-2020

11 [https://www.ndis.gov](http://www.ndis.gov.au/).au/

* develop **strategies and actions**
* develop a **monitoring, evaluation and reporting** strategy
* publish, **promote and implement** the plan.

## Drivers of change

Some key trends and issues shaping the future of transport in Australia will also influence

public transport journeys.

**Population:** Australia’s population is growing strongly and the age structure of the population will change. For example the number of Australians aged over 75 years will increase from 6.4 per cent to more than 14 per cent of the population by 2060.

Generation Y and later generations will comprise an increasing proportion of the workforce and may more likely embrace developing transport options, including on-demand and tailored transport services12. These changes will impact on public transport networks in terms of needs and preferences and give added urgency to the need to ensure greater public transport accessibility at all stages of people’s journeys.

**Economic trends:** Trends in per capita wealth and income will influence the communities ability to sustainably fund accessible public transport. For example, the growth of night/weekend economies has the potential to change transport demand. Ensuring best value for money for accessible services in these situations will be important13.

**Awareness:** increasing awareness and understanding of what is required for people with disability, as well as emerging opportunities to improve accessibility, is increasing expectations of people with disability, the community, industry and government14.

**Climate change:** changes in our climate are expected to result in more extreme weather events such as heatwaves and storms. This creates potential for greater disruption to public transport services and a higher demand for weather protection to address these extremes. It will require greater redundancy and flexibility in the transport systems to manage climate related disruption. It will also affect infrastructure provision in relation to the design of public transport bus stops, platforms, terminals and footpaths15.

**Digital connectivity and big data:** the increasing digitalisation of transport information,

ticketing and services is leading to techno-reliance and reduced staffing levels both on public transport services (with the introduction of driverless trains for instance) as well as the introduction of new transport modes such as car-sharing services and autonomous vehicles.

12 Brisbane City Council submission on the draft guide.

13 Association of Consultants in Access Australia submission on the draft guide.

14 John McPherson submission on the draft guide.

15 Ms Mandy Dunn submission on the draft guide.

The increasing availability of data can help us better understand customers and their trips, more effectively integrate travel options with destinations, and enable systems to be designed for user needs and their desired experience. Data can also enable staff to provide customer focused one-on-one assistance during their journey where needed.

**Innovation and technology:** this is a rapidly evolving area of opportunity for both people with disability and public transport providers to facilitate whole journey outcomes.

For example, autonomous vehicles that sense the environment and navigate without human input are no longer science fiction. These are expected to have a significant impact on future public transport delivery. Important considerations include the capacity for such vehicles to indicate their whereabouts verbally as well as visually, and to provide passengers with journey advice.

Future transport on-demand services will also make journeys more accessible. Coupled

with first-mile, last-mile connectivity that is currently operating elsewhere in the world,

a shift in the balance between set services and flexible transport-on-demand options can

be expected16.

**Urbanisation:** Australia is highly urbanised, with more than 90 per cent of the population living in urban areas. Urbanisation with integrated, inclusive and iterative planning can provide great opportunities to citizens in terms of culture, commerce and productivity.

The complexity of cities however creates challenges, including urban sprawl, increasing traffic congestion, car-reliance and decreasing rural populations. These will have implications for public transport accessibility.

##### Other possible drivers might include:

* Increasing connectivity of transport users in terms of apps and real time communication between users.
* Real-time monitoring of video surveillance equipment and access to public address systems.
* The effect of technology on infrastructure management practices and staffing.

## Urban design

The design of the urban environment, streets and the layout of building structures form the foundation of movement networks in cities and regional areas. As identified in the Urban Design Compendium17 a good movement framework:

* provides the maximum choice for how people will make their journeys
* takes full account of the kinds of movement a development will generate
* makes clear connections to existing routes and facilities.

Line

16 Transdev Australia submission to the draft guide.

17 https://udc.homesandcommunities.co.uk/urban-design-compendium?page\_id=&page=1

Applying good urban design principles to spaces that form part of a public transport journey––such as origins and destinations, public transport interchanges and the streets in between––are critical factors that contribute to the quality and character of a user’s experience of their journey. Adopting urban design principles, such as supporting active

and interesting building façades that put ‘eyes on the streets’ can enhance an area’s sense of security and safety.

Good urban design can also support wayfinding. Through visual cues in the environment,

such as landmarks, views and vistas, and permeable street blocks, a journey’s start and end in particular becomes more comfortable and safe with a clear network of routes and paths. It also provides an opportunity to encourage development of public transport multifunctional interchanges that are passenger friendly and maximise the journey experience18.

## Integrated planning

Integrated planning recognises that a city or regional area is supported and governed by the interrelationships between physical infrastructure, people and the context of a place. Cities and towns are hubs for ideas, commerce, culture, productivity and social

development. An integrated planning approach considers the design of transport networks within the context of the opportunities that cities and regional areas can bring.

Maximising the integration of land use planning and transport planning provides the best opportunity to enhance the accessibility of an area, and enhance a user’s experience of the whole journey. This also enables streets to be considered as public spaces that feel safe, comfortable and are a delight to experience.

New (greenfield) developments versus existing or old (brownfield) situations pose varied challenges. Greenfield sites provide opportunities to achieve best practice accessibility informed by disability advisory groups (see figure 14). Improving accessibility of existing facilities, particularly those with heritage classification or engineering constraints, can pose significant challenges and costs. Working with disability advisory groups in these situations is particularly important, and frequently enables solutions to be found that best meet the needs of all parties involved.

An integrated planning process also considers the design of places in the context of human behaviour and experience. This approach brings a truly holistic perspective to the planning and design of public transport. It brings focus to users’ journeys and their interactions with the environment during these journeys.

18 Brisbane City Council submission on the draft guide.

## Governance and management of places

A range of stakeholders are involved in planning, designing, procuring/purchasing, constructing, certifying, operating and maintaining, and redeveloping public transport systems and their surrounds.

These stakeholders are often restricted by issues such as geographic boundaries,

land ownership, scope of work, budgets, separate approval processes and other issues that effectively ‘divide up’ public space and aspects of the public transport system.

This division means people often only focus on their piece of the puzzle, rather than the complete picture.

Effective governance and management of precincts and places that interface with public transport is an important aspect of creating whole public transport journeys. A clear vision for the whole will lead to more pieces fitting together to provide better accessibility.

## Liveability

Public transport accessibility is the key to creating equitable environments where everyone

can access and benefit from the full range of opportunities available in our society.

A seamless and enjoyable public transport journey can enable greater access to jobs, healthcare, education and other services.

Urbanists like Jan Gehl of Gehl Architects are encouraging conversations that focus on the relationship between the shape of cities and their impact on quality of life. Such thought leaders advocate strongly for investment in high quality public spaces (including street networks) with connected and accessible public transport networks.

##### “For cities to be liveable, people need to have freedom of choice in terms of mobility. According to what your daily needs are, you can walk, you can bicycle, you can take public transport,” *Jan Gehl, Gehl Architects.*

1. Parts of a journey

In this part of The Whole Journey, we explore a person’s journey across eight key stages.

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|  | **Pre-journey planning:** these are the decisions about using public transport that are made based on available information. |
|  | **Journey start and end:** these occur outside the public transport system. For example, travelling from home to the stop, station or terminal along a footpath, and then from the stop, station or terminal to the final destination. |
|  | **Public transport stop/station:** the dedicated locations where public transport services operate to and from. |
|  | **Public transport service:** the conveyance that enables the journey, the ‘on board experience’, as well as the scheduling/routing of services |
|  | **Interchange:** places where service or mode transfers take place. |
|  | **Return journey planning:** reversing the journey for the return to origin or an onward journey to another place. |
|  | **Disruption to business-as-usual:** this includesplanned and unplanned disruption to public transport services or along the journey start and end sections. |
| Image of different types of disabilities symbolising various infrastructure that can be found on various public transport. | **Supporting infrastructure:** this supports the journey and includes mid and end of trip infrastructure such as toilets, drinking fountains, wayfinding and seating |

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|  | Pre-journey planning |

Pre-journey planning generally takes place before someone leaves their location to start their public transport experience. It involves accessing information about public transport routes, service timetables and any required connections and conditions at the destination, from:

* online sources
* telephone services
* printed materials, or
* by asking someone (friends, family, customer service staff or others) to help provide this information.

People with disability have highlighted that a great deal of time and effort is required for pre-journey planning. People with accessibility requirements need to be confident that they can efficiently and safely complete their public transport journey. This is in contrast to other customers who can often make more spontaneous public transport travel decisions.

During this pre-journey phase, public transport users are seeking information to confirm the accessibility of all parts of the journey. Their decision making during this phase is also influenced by past experiences. Building confidence around the accessibility of the entire journey is key to enabling and encouraging more people to use public transport for their travel needs.

**Aspirations for this journey part**

* Encourage and enable more people to make informed decisions about using public transport.
* Reduce the amount of time it takes to pre-plan public transport journeys.
* Increase the confidence of public transport users that their journey will be

seamless and safe.

### How can we achieve this?

#### Providing a richer set of information/data in journey planning tools

People with disability have highlighted that they often have to use a number of customer

service information resources, apps or other data sources to understand or confirm

the accessibility of their journey. Adding additional data into regular journey planning apps––such as the accessibility status of stops, vehicles and interchanges––as well as information about the surrounding environment, provides the information people need to make informed decisions about their journey. This includes details on facilities available at the stop/station (such as a shelter), gradients, locations of steps, stairs, ramps (including kerb ramps), escalators and lifts, accessible car parking locations, footpath quality and continuity, gradient of ferry boarding points subject to tidal variation, and weather data.

Real-time information about the ‘busyness’ of the public transport system should be included in these tools so people can decide if they want to delay their journey for a quieter time. Information about delays and disruptions should also be included as they occur to allow continued planning en-route.

Journey planning tools should make use of this information and provide individualised planning information based on people’s needs.

#### Provide information in a range of formats

People seek information in different formats. Tech savvy travellers often use apps for their journey planning, while others prefer to speak to customer service officers, use visual information sources, or read paper timetables and information at the public transport stop. However this is not always possible or appropriate for many users who can’t make use of technology for economic or practical reasons.

Currently, information about accessibility options is not always easy to find on transport and infrastructure provider websites. Communicating the availability of journey planning tools and assistance is an important whole-of-journey consideration.

#### Excerpt from submission on the draft guide by Blind Citizens Australia

##### “…smart phone applications have become an important method of accessing information for many people. For people who are blind or vision impaired, apps are extremely useful for those who feel confident in accessing them. However, an essential factor to take into account when designing services and infrastructure is that the majority of people who are blind or vision impaired, and are over the age of sixty-five, do not use a smart phone. Even when technology is accessible, the learning curve associated with adjusting to the use of screen-readers on phones and computers is long and steep for people who acquire vision loss later in life.

**Therefore, many people either choose not to use smart phone technology, or go through a lengthy period where it is not practical for them to do so.”**

Links to information and journey accessibility planning tools and assistance can be improved by these being consistently located on service and infrastructure providers’ websites. User testing by people with disability should always be a design consideration in relation to online information19.

Information should be provided in a range of formats to address the accessibility requirements of all users, and will need to include both technology based and more traditional formats. Simplicity is important for all users, but particularly for people who may have difficulty reading, who are deaf, those with a cognitive disability or those from non-English speaking backgrounds.

#### Safety

Safety and security can have a significant influence on user perceptions, and their comfort and confidence in using public transport. Information about public transport (including for the ‘pre-journey planning’ and ‘return journey planning’ stages), that informs users about stops and station facilities and staffing helps support user planning and use of public transport.

#### Providing training

Some people with disability are comfortable using technology for journey planning, some are not. Organisations offering journey planning tools and apps should also provide training so people can set up and gain skills and confidence in using the apps and tools.

Opportunities for people to physically experience the public transport system in a controlled and comfortable environment through training sessions or open days could also be considered. These activities would build people’s confidence and capacity to make decisions about public transport travel. The United Kingdom for example has produced a comprehensive [Travel Training Good Practice Guide](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/4482/guidance.pdf)20 to facilitate this.

#### Customer service to cover the whole journey

Customer service staff should be trained and equipped to help people plan journey parts around their immediate area of responsibility. Being able to access information about the surrounding environment such as road closures or construction works can have a

significant benefit to their customers and business. This is discussed further in section 3.7.

#### More consistency within the public transport system

The more consistent journeys are, the easier pre-journey planning will be. If people generally know where to seek travel information and what to expect along each part of their journey, they will have more confidence relying on past experiences to help inform their journey planning.

19 Vision Australian submission on the draft guide.

20 <https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/4482/guidance.pdf>

#### Address Web Content Accessibility Guidelines (WCAG)

[Web Content Accessibility Guidelines](https://www.w3.org/WAI/intro/wcag.php)21 (WCAG) are an internationally recognised standard that document how to make web content more accessible for people with disability. There are 12 guidelines organised under four principles: perceivable, operable, understandable and robust. Journey planning tools should meet each of these.

#### User involvement in tools development

Inclusion of people with disability is essential to developing and testing new apps and tools to make sure that they meet the needs of users.

21 [https://www.w3.org/WAI/intro/wcag.php](http://www.w3.org/WAI/intro/wcag.php)

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| **Online ‘plan a journey’ and training tools**  Trip planning results and timetables on the Transport for NSW website use notes to show accessible trips. Customers with disability can plan their trips using only accessible services. A ‘location facilities’ search tool has been introduced that lists facilities (including accessible features) at stations, interchanges and wharves. This is complemented by the First Stop Transport eLearning module developed for anyone wanting to learn how to use public transport. The module also incorporates training materials for those seeking accreditation as a travel trainer through a Registered Training Organisation. | **Image of person using TransportNSW Online trip planning**  Figure 1 – [Transport for NSW Online trip](https://tp.transportnsw.info/nsw/XSLT_TRIP_REQUEST2?language=en) [planning](https://tp.transportnsw.info/nsw/XSLT_TRIP_REQUEST2?language=en) [[1]](#footnote-1) © Transport for NSW |
| **Adelaide Metro’s smartcard introduction videos**  The Adelaide Metro website has a series of videos that introduce its new smartcard ticketing system. The information is provided in a range of formats including spoken, plain English, subtitles, images and photographs, with on-screen AUSLAN interpreting for all content. These multiple formats cover a wide range of information needs. | Image of Adelaide Metro smartcare introduction video  Figure 2 – [Video clips to introduce](https://www.youtube.com/watch?v=lvmcCiRVzHo) [smartcard ticketing system](https://www.youtube.com/watch?v=lvmcCiRVzHo)[[2]](#footnote-2) © Adelaide Metro (Creative Commons) |
| **The Rocks precinct accessibility maps**  Sydney’s Rocks accessibility map is a good example of a precinct-wide approach to accessibility information. It provides information about routes through the precinct that are and aren’t accessible, and details accessible paths, lifts and bathrooms. It also includes information about public transport options within the precinct. | Image of The Rocks accessibility map  Figure 3 – [The Rocks accessibility map](https://www.therocks.com/media/141657/c4f853b8-d9d7-c228-b1d9697fdc0d8c6d.pdf)[[3]](#footnote-3)  © Sydney Harbour Foreshore Authority |

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|  | 3.2 Journey start and end |

To enter the public transport system, people need to travel from their location to a public transport node such as a bus stop, train station, ferry terminal or airport. Depending on the distance to the public transport node, public transport options and the local setting, people may do this by walking, travelling in a mobility device (such as a wheelchair or motorised scooter), catching a taxi or ride share, driving a private vehicle and parking at the station, or being dropped off by another person. People with disability have highlighted that the start and end of their journey can often be problematic due to a lack of information about the environment they are entering. This is also a challenging part of the journey

for transport operators and service providers because they often have no control over conditions surrounding the public transport infrastructure.

The journey start and end is managed and affected by a range of stakeholders including local government, state and territory government departments, private developers and landowners, and utility providers (such as telecommunications, gas or water). When issues arise during this part of the journey it can be difficult for public transport users to work out which organisation to contact for assistance.

This part of the journey is not addressed by the Transport Standards, but is subject to broader DDA requirements.

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| **Aspirations for this journey part**   * Travelling to and from public transport nodes is easy and efficient for people with   accessibility requirements.   * Stakeholders involved in managing the environment surrounding the public transport network understand the impact their actions have on public transport users, and work cooperatively to resolve issues and explore opportunities. |

#### Excerpt from submission to the 2012 Transport Standard review –

John McPherson

##### “Unless the pedestrian and transport connections between transport nodes are fully accessible, transport nodes risk being no more than accessible islands in an inaccessible ocean. Large areas of both urban and rural landscape currently

**feature these archipelagos of accessibility, with their scattered stops, stations and terminals embedded in a matrix of difficult access paths and poorly coordinated multimodal transport routes.”**

*How can we achieve this?*

* + 1. Transparent information about accessing stops/stations/terminals

Having a stop, station or terminal that complies with Transport Standards does not automatically make the infrastructure accessible. Issues such as topography in the vicinity of transport infrastructure and legacy streetscape features are not easily resolved.

Therefore, information needs to be made available about the environment surrounding public transport infrastructure. This would enable people to plan their journey based on their individual needs and be directed to use suitable routes to public transport nodes. This is especially relevant to footpath gradients, quality and continuity, and the availability and suitability of kerb ramps.

#### Pathway quality

Pathways leading to public transport nodes should be maintained to a high standard by the relevant authority. This will make this part of the journey as safe, convenient and comfortable as possible for those with accessibility requirements. Improving pathways

means fixing broken pavements, maintaining levels, managing street clutter and avoiding

trip hazards.

The Western Australian Department of Transport has collaborated with a number of state government authorities, local bodies and organisations to develop the comprehensive Planning and Designing for Pedestrians: Guidelines publication. This encompasses disability standards. It was rolled out to local government with a series of workshops in 2012 and was reviewed in 201625.

When designing journeys, approaches and pathways, it is desirable to take into account the relationship between pedestrian movement patterns and the path of the sun

(daily and annual) to maximise shade during the day when most people use the route26.

25 Western Australian Local Government Association submission on the draft Guide.

26 Royal Australian Institute of Architect submission on the draft guide with references to Kennedy (2010), Subtropical Design in South East Queensland: A handbook for Planners, Developers and Decision Makers, QUTe-prints, p.29.

In regional and rural areas, not all footpaths will be paved or sealed. Areas in the vicinity of public transport infrastructure should be prioritised for this treatment. Where this is not possible, measures should be considered such as compacting the existing soil to create a smooth surface, rather than using materials that could be uneven or unstable, such as gravel. In some instances, an alternative stop location could be considered that might achieve a better result.

#### Obstructions

People with disability have highlighted significant issues that impact access to public transport. These include temporary signage (such as A-frames), parked cars, retractable barriers, low hanging branches, commercial activity such as café or retail display stands, construction works and other obstructions along pedestrian pathways. The Australian Human Rights Commission has provided guidance on [footpath and access requirements](https://www.humanrights.gov.au/our-work/disability-rights/publications/advisory-note-streetscape-public-outdoor-areas-fixtures)27 as part of the *Disability Discrimination Act 1992*.

Increasing awareness of these issues within the community will improve access to the public transport system.

Where required, those with enforcement powers such as local government, should work with stakeholders to maintain unobstructed paths, especially in the vicinity of public transport infrastructure.

For example, to ensure effective collaboration between stakeholders, the Yarra and Melbourne councils in Victoria have helped develop f[ootpath use policies](https://www.yarracity.vic.gov.au/services/business-in-yarra/business-permits-and-regulations/footpath-trading)28.

#### Precinct planning and coordination

Stations often function as the centre of many communities, and are important nodes in a neighbourhood. A series of activities at stations can transform a station or stop into a multi-use destination.

Where public transport nodes sit within a precinct––such as a retail, health, education or sporting facility or airport terminal––planners and managers should consider how activities within the precinct impact access to public transport, especially for those with accessibility requirements.

27 https://[www.humanrights.gov.au/our-work/disability-rights/publications/advisory-note-streetscape-public-](https://www.humanrights.gov.au/our-work/disability-rights/publications/advisory-note-streetscape-public-outdoor-areas-fixtures)

[outdoor-areas-fixtures](https://www.humanrights.gov.au/our-work/disability-rights/publications/advisory-note-streetscape-public-outdoor-areas-fixtures)

28 https:/[/www.yarracity](http://www.yarracity.vic.gov.au/services/business-in-yarra/business-permits-and-regulations/footpath-).[vic.gov.au/services/business-in-yarra/business-permits-and-regulations/footpath-](http://www.yarracity.vic.gov.au/services/business-in-yarra/business-permits-and-regulations/footpath-) trading

From a planning perspective, precincts should be designed with their role as a conduit and supporter of public transport infrastructure in mind. This may involve integrating seating, clear wayfinding information and cues, shade and other supporting infrastructure into the area. An example of the effective delivery of a precinct plan is the extensive network of signage established by the City of Sydney and Brisbane City Council for people who are blind or who have low vision. These networks use Braille and tactile street signs on the mast of traffic signals that feature audio tactile pedestrian crossing controls29.

From a management perspective, the area’s role in public transport journeys should be acknowledged and respected through day-to-day precinct management. Actions that take place in the precinct have the potential to impact people’s public transport journeys.

An example is the Australian Taxi Industry Association, which has sought to address this need through its [Taxi Rank Design Specification](http://www.atia.com.au/wp-content/uploads/Generic-Taxi-Rank-design-specification.pdf)30. This guides the process of designing accessible taxi ranks for various facility types located in urban centres.

[Taxi Rank Master Plans](http://www.atia.com.au/publications/taxi-rank-master-plans/)31 have been developed for Adelaide, Brisbane, Canberra, Melbourne and Sydney.

#### Temporary works

Pedestrian movement and informal desire lines should be considered when there are temporary works in the vicinity of public transport infrastructure that impact pathways, kerb ramps and pedestrian crossings. For example, organisations that approve works and management plans should require that provisions such as temporary kerb ramps be included where no other safe, convenient and accessible options exist.

People who are blind or who have low vision say that they struggle with these types of temporary works as signage is often used to direct people to detours. Alternative ways to communicate changes and detours, or a combination of measures, should also be considered, for example temporary fencing in place of bollards.

Consideration should also be given to how temporary changes and diversions are communicated so people can be informed about changes that may affect their journey.

Utility owners should consider the impact of their work on accessibility, especially in relation to temporary works and reinstating pavements, particularly in the vicinity of public transport infrastructure.

29 John McPherson submission on the draft guide.

30 <http://www.atia.com.au/wp-content/uploads/Generic-Taxi-Rank-design-specification.pdf>

31 <http://www.atia.com.au/publications/taxi-rank-master-plans/>

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| **Clarifying responsibilities**  Western Australia’s Public Transport Authority has worked closely with local government to clarify roles and responsibilities for planning and designing public transport infrastructure. The authority sought legal clarification to ensure that it understood its responsibilities and that staff were better informed where planning, maintenance, and upgrades were required to the network. This also gave local government confidence in what its scope entailed, and enabled more open dialogue where funding was required to support accessible upgrades. | Image of person using a wheelchair boarding a bus. Figure 4 – Blue Cat Bus in Perth © Public Transport Authority of Western Australia |
| **Complete streets approach for designing safe access for all users**  The complete streets approach recognises that streets are destinations, and that good design ensures people who travel as pedestrians, cyclists or on public transport have just as much right to use the streets as drivers. Outcomes of this approach have resulted in streets that are more pedestrian friendly, have improved safety and security through good design and surveillance, provide more permeable and legible street networks, and improve bus operations through appropriate allocation of street space. | Figure 5: [Bondi Junction Complete Streets](http://www.waverley.nsw.gov.au/building/current_projects/bondi_junction_projects/great_places/complete_streets) [Project](http://www.waverley.nsw.gov.au/building/current_projects/bondi_junction_projects/great_places/complete_streets) © Waverly Council, NSW |
| **Cities unlocked**  A pilot project undertaken in the UK between Future Cities Catapult, Guide Dogs and Microsoft, is improving mobility and navigation for people with low and no vision. The project was piloted in London. It uses a headset and smartphone app that provides the wearer with a 3D soundscape for a richer understanding of their surroundings. | **Photo fo Cities Unlocked headset** Figure 6 – [Cities Unlocked](http://futurecities.catapult.org.uk/project/cities-unlocked/)32 headset used to navigate the city, © Future Cities Catapult |

32 <http://www.waverley.nsw.gov.au/building/current_projects/bondi_junction_projects/great_places/> complete\_streets

33 <http://futurecities.catapult.org.uk/project/cities-unlocked/>

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|  | 3.3 Public transport stop, station or terminal |

The ‘at the stop’ stage of a public transport journey involves a person’s experience at the stop, station or terminal, from their arrival until they board the vehicle or conveyance. During this stage they:

* enter the stop/station or terminal
* configure information about their journey
* access ticketing, retail or other facilities
* navigate their way to their platform or boarding area
* wait for their service
* board the public transport vehicle or conveyance.

Public transport stops/stations/terminals can be as simple as a sign or stop marker at the side of a road, or complex as a multi-modal interchange where many services converge.

People with disability have highlighted issues at this point in the journey, including:

* lack of shade to wait under
* space issues associated with mobility devices
* visual and audio ‘clutter’ associated with advertising or general street/road signage
* issues around identifying and hailing their service
* late changes to platforms
* difficulty in boarding a public transport vehicle.

In larger transport premises such as airport terminals and interchange rail stations, moving

between drop-off points and boarding points can be a particularly difficult.

**Aspirations for this journey part**

* The stop/station/terminal should be easy to identify through visual and audio messaging, easy to access, provide information about services in a variety of formats, and provide a safe, suitable boarding point for users.
* Public transport users need to locate boarding points from drop-off points and surrounding infrastructure at allotment boundaries.
* Travellers should be safe and comfortable while waiting at the stop/station/terminal for their service.

### How can we achieve this?

#### Consistency

People with disability have highlighted that consistency within the built environment helps accessibility. If parts of a stop/station are generally consistent with other stops/stations, they are more likely to safely and efficiently navigate the location because they are predictable and reliable. This doesn’t mean a ‘cookie cutter’ approach should be taken to planning and designing stops/stations/terminals, but consistency should be a key element in the design process.

#### Amenity considerations

People with disability have reported waiting at a public transport node for longer periods of time because they arrive earlier to ensure they can meet their service with the least amount of stress. They sometimes have to wait for more services than planned if the public transport vehicle isn’t accessible when it arrives (this is especially relevant to buses and trams in some locations around the country).

Depending on the location and local climate, this may mean waiting in the hot sun or pouring rain, so some form of shelter needs to be considered. Other amenity considerations (depending on the scale of the stop/station) should include seating,

drinking water and bathrooms. This will be of increasing importance as future changes in climate occur.

#### Real time information

Where relevant and possible, real time information about upcoming arrivals should be provided at the stop/station in a variety of formats. This could be a combination of signage, audio announcements and ‘beacon’ type technology that interacts with smart devices.

Journey planning apps should also access real time information so people can use this to understand the arrival progress of services.

For example, the Perth CAT bus system has visual and audio real-time information at the bus stop on the arrival time of the next bus, and Transport for NSW has been trialling ‘beacon’ type technology.

For people with hearing impairments, there should be visual indications of the arrival of a train or bus, particularly in high traffic situations such as larger train stations. For example, whenever a train approaches a platform, flashing lights could indicate the train’s

imminent arrival.

#### Hailing arrangements

Hailing a public transport vehicle can be difficult for people with disability, especially those who are blind or have low vision. Hailing points, including taxi ranks, should be easy to identify through a variety of formats and in line with the Transport Standards.

For example, Transport Canberra has made bus hailing kits available for passengers who are blind or have low vision. The kit consists of a clear plastic pouch with three slots and a set of numbered inserts, which used together display the required bus route number to bus drivers. The inserts have large, raised print and Braille to help with identification. In some overseas cities, buses broadcast their number and destination through a speaker mounted on the outside of the vehicle. At Brisbane busway station platforms, people who are blind or who have low vision can use the platform’s emergency phone on the platform to contact the bus control room. Their needs are then communicated to the driver of the required

bus service.

Drivers should also be trained to recognise when a traveller might be blind or have low vision (for example, a person using a mobility cane or guide dog), or if they have a physical or mobility disability which affects their capacity to hail a bus34. Drivers need to be vigilant and alert for these travellers, and to stop even if they are not hailed.

#### Drop off/pick up points

People with disability will often use taxis to travel to their chosen stop, station or terminal. Consideration should be given to creating a drop off/pick up point with access to the public transport node. This may include locating the area a suitable distance from the public transport node, providing an accessible route (including level footpaths, kerb ramps, wayfinding information and cues), and considering how ticketing, security and other activities at the stop/station/terminal may impact a person’s journey to the public transport node.

It is important to ensure the built environment provides curb ramps near taxi ranks, bus stops, and the taxi/vehicle drop-off/pick-up areas at transport interchanges to enable wheelchair users to travel between the footpath and road. ‘No-stopping’ zones should take into account that people with disability often need to be assisted by taxi or other drivers, especially in situations where motorised mobility devices need to embark or disembark.

#### Customer service

People with disability highlighted the importance of having customer service staff available to assist them, especially in busy, complex environments. Such staff need to be well trained and able to provide information about the accessibility of the location.

34 Vision Australia Submission on the draft guide.

For example, this is important for people with disability when they arrive independently at the entry to a terminal or large interchange station (e.g. by taxi or bus), and need to reach the check-in or boarding point. At airports, collaboration is needed between the arriving vehicle operator, the terminal operator and the airline.

There are examples in retail and banking where the customer service model has shifted to a concierge model. This means people are offered individualised service at the start of their interaction, rather than people seeking customer service staff when they have an enquiry. This is a model that could also be considered for busy stop/stations and airport terminals.

Service staff should be easily identified by their uniforms and should be located in consistent and accessible locations within the stop/station, for example at a customer service point.

For stops/stations that aren’t staffed, help points should be available for more than just emergency situations, and clear contacts provided for those who need help and

assistance. These details should also be provided in Braille for customers who are blind or have low vision.

#### Consider advertising’s impact on accessibility

Advertising is common at public transport nodes. For people with disability, this sometimes impacts their capacity to access wayfinding information and see approaching public transport vehicles.

For example, audio-based advertising and other sounds can make hearing station announcements difficult. In placing advertising, consideration should be given to its appropriateness and positioning in terms of safety and accessibility for those with disability.

#### Ticketing

While some people with disability carry travel cards that serve as a valid travel ticket, others have to purchase tickets or validate their travel card.

Electronic ticketing systems have advantages for transport providers in terms of efficiency and planning, and can help better meet customer needs through journey analysis information. These systems can increase customer convenience and independence35.

Examples include the “*go* card” (Queensland), Opal (New South Wales), SmartRider (Western Australia) and myki (Victoria) cards. There is also a strong demand for a national integrated electronic ticketing system that could facilitate access to disability related concessions when travellers are interstate. A national pass system also could be used as a form of access key technology for specific needs of the user, such as locked toilets.

35 Department of Transport and Main Road (Qld) submission to the draft guide

However, some people prefer or need to hold a paper ticket36, although the decreasing number of ticket booths may create barriers for paper ticket users in the future. Where this is the case, public transport service providers should consider familiarisation and training sessions for people who are switching to this form of ticketing to help them understand how to use and top-up (including setting automatic top-up) their travel cards. There may also be opportunities for transport service providers to partner with organisations that support people with disability in this area.

The Adelaide Metro website has a series of videos that introduce its new smartcard ticketing system. The information in these is provided in a range of formats including spoken, plain English, subtitles, pictures and photographs with on-screen Auslan interpreting of all content. These multiple formats cover a wide range of information needs (see figure 2).

36 Carers NSW and Carers Victoria submission on the draft guide.

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| **G:Link – Gold Coast light rail**  Every service and every station caters for passengers of all mobility levels. When trams pull into a station the door entry is almost level to the platform, though this can alter a few centimetres depending on the number of people on board the tram. The platform and trams have been designed to make it as easy as possible for everyone to board and exit at the platform. Ramps are still available for passengers who feel more confident using them or who need them to board and disembark. | Photo of G:link tram at platform Figure 7 – G: Link tram. Image supplied courtesy of TransLink, Department of Transport and Main Roads |
| **Training bus stops**  Guide Dogs Queensland’s facility at Bald Hills has three replica TransLink bus stops. These are used to familiarise and build the confidence of people who are blind or who have low vision and their guide dogs. This is a good example of pre-journey planning focused on building an individual’s confidence and capacity. | Figure 8 – TransLink training bus stop at Guide Dogs Queensland  Figure 8 – TransLink training bus stop at Guide Dogs Queensland © Guide Dogs Queensland |
| **Try before you ride**  Public Transport Victoria holds an annual ‘try before you ride’ event to allow people of all abilities to familiarise themselves with its transport system and infrastructure. This includes people with disability, parents with young children and elderly users. Participants have a chance to boost their confidence by practicing how to board and alight a low-floor tram, low-floor bus, train, coach and accessible taxi at the Box Hill Interchange. | Figure 9 – Try before you ride flyer  Figure 9 – Try before you ride flyer © Public Transport Victoria |

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|  | 3.4 Public transport service |

The in-vehicle/conveyance stage of a journey involves the passenger’s interaction with the vehicle (bus, train, tram, aeroplane or ferry etc.) and potentially its driver. During this stage, the customer boards the vehicle, travels to their destination stop/station and alights. Ideally, the customer is able to board independently, quickly and effectively; have a safe, secure and comfortable experience on board the vehicle; is provided with information during the journey; and alights the vehicle easily at their desired stop/station.

People may need assistance with boarding and alighting in the form of ramp deployment and other mobility aids. This is particularly true for coaches and mini buses, and some ferries affected by tides. It is also true for airlines where aerobridges are not in use.

Requirements of the in-vehicle stage may be different depending on the mode of travel and length of the journey.

**Aspirations for this journey part**

* People using public transport feel confident, safe and secure knowing they can get

on, travel and then get off the service.

* Fellow passengers and staff are courteous and respond to requests for assistance from people with disability.

### How can we achieve this?

#### Limit the need for assistance

Wherever possible, planners and designers should aim to eliminate the need for ramps and accessibility aides when people enter and exit a public transport vehicle.

This involves providing appropriate infrastructure, such as consistent platform and vehicle levels, or using vehicles that can adjust to different kerb heights (such as kneeling buses), as well as ensuring a consistent location for accessible boarding points. Minimising boarding gaps is important, however this can be difficult in some situations. For example, on older train systems and ferries, and where there are curved platforms. In such situations suitable mobility aids that maximise potential for independent access and assisted boarding may need to be examined. Consideration of such options needs to take into account that many people with disability prefer independent boarding that does not require separate processes that draw attention to them or delay a journey. This aspiration

should be considered during infrastructure planning and when design and procurement decisions are made, as such decisions are likely to impact public transport accessibility for many years.

#### Audible announcements

People who are blind or have low vision have highlighted that audible announcements within vehicles significantly improve their public transport experience because information on their location is communicated during the journey37.The importance of communication increases as routes become more complex, such when stops are frequent (for example, 300 metres apart), as does the difficulty in using audible announcements. Apps such as the [Stop Announcer (NSW)](https://transportnsw.info/apps/stop-announcer)38 are an effective alternative for transport users who need access to information on their whereabouts.

Clear, timely and accurate audible announcements within interchanges is also important, particularly where there are dynamic bus bays and users rely on announcements to get to right departure point. This is considered further at section 3.5.3 ‘boarding points’.

#### Vehicle fleet consistency

Consistency of essential accessibility features across the whole journey is important. Features such as exit buttons, priority seating and the location of allocated spaces should be as consistent as possible. People with disability have highlighted that vehicles can have significant differences in this regard, such as exit buttons located in different places. These differences can significantly impact on people’s ability to travel independently.

This will be increasingly important as transport providers pursue service improvements in response to technology opportunities, including use of different vehicles for different services in the future.

#### Vehicle livery

Vehicle colours, icons or numbering systems are important identifiers for public transport users. The symbology and colouring of these should be considered to ensure identifiers are consistent across the fleet and provide clear information for users.

Changes to these symbols or colours should be considered in consultation with relevant user groups to ensure they do not affect accessibility.

#### Driver and staff training and passenger awareness

A driver’s behaviour and actions can make a positive and lasting effect on the relationship

with a customer with disability, and their confidence to use public transport again.

37 Disability Standards for Accessible Public Transport 2002, Part 27, Clause 27.4

38 https://transportnsw.info/apps/stop-announcer

Especially relevant to buses, trams, airlines and taxis, drivers should be appropriately trained to enable them to assist people with accessibility requirements. This includes identifying signals to stop and pick a person up, assisting with boarding and ticketing, waiting until the person is settled before moving off, driving in a manner that considers passenger safety and comfort, helping to identify a desired stop, and helping travellers alight from the vehicle.

Drivers could also be trained to communicate with people non-verbally, such as writing in notebooks, using communication cards, or using selected Auslan phrases.

For example, V/Line, Victoria’s regional public transport operator, has introduced innovative and simple solutions to improve the travel experience for people with disability. It is the first public transport operator in the world to be accredited in the Communication Access Symbol (see figure 12).

Passengers who are travelling on public transport have a role to play in enabling an accessible journey. Raising community awareness and encouraging people to watch out for and help people with a disability along their journey is essential. This needs to be coupled with better understanding about the many types of disability, including physical, vision, hearing, intellectual, a combination (e.g. deaf/blind), culturally and linguistically diverse people with disability, and children with disability.

People with disability have highlighted that priority seating is often unavailable on busy public transport services, and at times priority seating is also shared with other customers such as parents with prams. To address this issue, education and awareness programs are being implemented in a number of jurisdictions across Australia. These include passenger etiquette campaigns (see figure 10), and in the Northern Territory where community awareness is being actively raised on this issue.

Sometimes a disability may not be apparent in the first instance. Transport for London has addressed this issue through a ‘please offer me a seat’ program, to help customers who have difficulty standing yet struggle to get a seat on public transport because their disability is not immediately apparent39.

#### Consider advertising’s impact on accessibility

Advertising and public information are common on public transport. But advertising on bus windows can make it more difficult for people with disability to know where they are in their journey. Audio-based advertising can also make hearing travel or emergency announcements difficult.

39 Arthritis Australia submission on the draft guide.

At the same time, there is an opportunity to be inclusive of travellers with disability in general advertising for public transport.

As noted above, advertising placements should consider implications for people with disability in terms of safety and accessibility.

#### Passenger communications

To enable people with disability to communicate with a driver or service provider in the same way as other passengers, communication options should be matched with passenger needs.

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| **Passenger etiquette campaigns**  Fellow travellers have a role to play in creating accessible public transport journeys.  Guide Dogs Victoria, Public Transport Victoria and Yarra Trams launched an education campaign on transport etiquette around travellers who are blind or have low vision. | Image of banner for education campaign Figure 10 – Banner for an educational campaign © McCann Sydney |
| **On-board announcements**  State Transit in NSW provides an audible and visible next stop announcement service on its MetroBus services.  All new buses now also feature LED destination signs with strong contrast between the large white writing and black background, making these easier to read for who are blind or have low vision. | Image showing on-board next stop announcment sign in a rail carriage. Figure 11 – It is common for public transport to feature on-board next stop announcements coupled with destination signs and arrival time estimates © Transport for NSW |
| **V/Line disability awareness and communication training**  V/Line, Victoria’s regional public transport operator, is making it easier for customers with disability to use public transport.  In 2013, it commenced the journey to become communication accessible and in 2016 became the first public transport operator in the world to be accredited under the Communication Access Symbol. More than 550 frontline staff completed disability awareness and communication training to improve their knowledge and skills.  Through a collaborative approach with industry experts, customers and staff, V/Line has introduced innovative and simple solutions to improve the customer experience for people with disability. | Image of transport officer assisting a person with a disability  Figure 12 – Improving customer experience for people with disability at V/Line © V/Line |

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|  | 3.5 Interchange |

People may need to transfer to another transport mode or route at some point during their journey. To do this, they exit the service, navigate their way through an interchange or other environment to the next service, and then board. Changing services or modes occurs at an interchange. Some of these transfers occur in a purpose built interchange,

while others require travellers to exit one service/form of public transport and travel to their next stop or station, usually by the urban street network. Transfers need to be efficient as delays may cause customers to miss their next service, or a specific accessible service, impacting their confidence and level of stress.

People with disability have highlighted that they are less likely to embark on public transport journeys that involve interchanges as it adds complexity and uncertainty to their trip.

**Aspirations for this journey part**

* People are not deterred from a public transport journey because it involves an interchange.
* The interchange experience is as easy, convenient and efficient for a person with

disability as it is for other public transport users.

### How can we achieve this?

#### Coordination of different operators

Interchanges are places where different services and modes, sometimes managed by different operators, converge to provide journey options for people. Public transport providers should strive to coordinate services as much as possible to provide a seamless experience for travellers, which will also encourage greater use. For example, wait times between services delivered by different operators should be considered and optimised for customers.

A ‘precinct’ approach should be taken in complex interchange environments, such as airports and major rail or bus stations, where all providers come together to discuss interchange interfaces and find ways to improve these for their customers. Airports are particularly challenging for people with disability for a range of reasons, including their large size, security requirements and difficulty navigating from drop-off points to check-in counters.

#### Wayfinding

Wayfinding is important to enable people to exit a transport service, quickly orientate

themselves and locate the boarding point for their next service or the exit.

Wayfinding takes into account all the cues people use to orientate themselves within an environment. This includes looking for known landmarks, knowledge from previous experiences at that (or a similar) location, indicators such as signage or tactile ground surface indicators (TGSIs), maps, apps, sounds, textures, contrasts, temperature, interaction with other people (including customer service staff) and other cues.

People with disability may rely heavily on some of these cues and find others to be of no use. For example, a person who is blind or has low vision may find they rely heavily on sounds, texture, temperature and TGSIs to navigate their way.

Transport interchange design should consider wayfinding from the start and use its principles to deliver an environment that users can intuitively navigate. Standardised designs for interchanges could further facilitate navigation.

In addition to great design outcomes, wayfinding strategies and plans should be considered, especially in complex, busy interchange environments. These designs and plans should consider multiple wayfinding options to cater for people’s varied information needs. People with disability should be involved in creating wayfinding strategies and plans. For example, for a person with cognitive impairment, pictorial representations as well as signs will be beneficial. These will also help those whose first language is not English.

A small (100 square metres) easy to access communications centre in large transport interchanges such as airports could facilitate access to information. This could include for example a range of communication and accessibility features such as Braille, audio loops, sound and lighting with ‘changing places’ premium toilets nearby40.

#### Boarding points

Lead stop operations––where multiple services stop in order of arrival rather than having a dedicated stop per service/destination––have been highlighted by people with disability as problematic when it comes to service recognition, moving to the right location on the platform and hailing the driver.

Dynamic stand allocation is a new approach to bus management that is being implemented around the world. It uses real-time information to assign buses to vacant stops based on their route and arrival or departure time. While this approach significantly reduces the space required for the interchange, people’s ability to move to the required bus stand also needs to be taken into consideration. Appropriate information also needs to

40 Deaf Blind Association submission on the draft guide.

be provided––and time allowed––for them to complete this movement. The business case for new approaches such as these must include consideration of accessibility implications.

Examples include the use of auditory, visual and touch-based advisory systems to communicate stand locations. Approaching vehicles should also display information to help travellers navigate between stands and boarding points, and customer service staff, such as a concierge, should also be available. These initiatives need to be underpinned by clear and consistent stand allocation protocols and underscored by passengers having sufficient information and time to access their transport.

As with any new system or approach, a review of the user and operator experience and what has and hasn’t worked is important to inform improvements and other developments.

#### Vertical transportation

Moving between floors within an interchange can be one of the most difficult aspects of the travel experience. People with accessibility requirements, especially those who rely on mobility devices, have highlighted that there are usually limited opportunities to travel between floors/levels.

Pre-journey planning needs to be supported by tools that identify where lifts, escalators, ramps and assistance are available. This should also consider the need for a different route or use of an alternative entrance/exit at an interchange.

Considering the potential impact of disruptions in the middle of a journey is also important, for example, a broken lift can be a major impediment. Contingency information in

pre-journey planning tools and real time communications within a facility should also be provided. This should include alternate or additional facilities such as second lifts, ramps or direct assistance.

#### Platform/stop changes

People with disability have highlighted that late platform or stop changes within an interchange present a significant challenge to them. If a change must be made, this should be announced by both audible and visual means. Consideration also needs to be given

to minimising the distance that people need to move to access a new boarding point, and avoiding changes that require vertical transportation to access the new location.

#### Kiss and ride and taxi facilities

The convenient access to an interchange for people with disability is often from where they are set-down at dedicated drop-off/pick-up zones. These should be located and designed to provide clear and legible access to major interchange entry points and visible when exiting.

#### Real time information

Information about service arrival and departure times and locations should be provided visually and by audible announcements within the interchange.

Alerts, particularly in relation to safety matters, need to be provided in formats that ensure all users receive necessary information. For example, a person with a significant hearing impairment will need a visual alert, as standard audio alerts will not work41.

#### Acoustic environment

Interchanges are often noisy, especially during peak travel times. Speaker quality and building acoustics should be tested to ensure audio announcements are high quality.

Announcements should be spoken slowly and clearly to aid understanding. Feedback from people who are hard of hearing is that accents, high pitched voices and quiet voices can all impact their ability to understand announcements.

Audible advertising can also impact people’s ability to hear announcements, so limiting this is preferable. This is also discussed at section 3.5.3 (boarding points).

#### Supporting infrastructure

While some people try to reduce the amount of time they need to spend at an interchange, others may use interchanges as a place to break their journey, access amenities and rest before continuing.

Supporting infrastructure such as accessible bathroom facilities and seating should continue be considered under the appropriate standards.

As the concept of workplaces become more fluid, infrastructure such as Wi-Fi and mobility aid charging points could be considered to enable time spent at interchanges to be productive. All such services should be identified visually and audibly, and referenced in journey planning materials.

#### Customer service staff uniforms

People with disability have highlighted that the symbology and colour of customer service staff uniforms is very important to them when they are in a busy interchange. Being able to easily identify service staff is critical to the accessibility of their journey. When uniform changes are proposed, this should be taken into consideration.

41 Vision Australia submission on the draft guide.

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| **Dynamic stand allocation at Perth’s Wellington Street Bus Station**  The Public Transport Authority of Western Australia recently opened Australia’s first bus station using dynamic stand allocation. The station has a consolidated passenger waiting lounge, similar to an airport waiting lounge, with passengers boarding buses through sliding glass doors. This follows international developments in bus station design and provides quiet air-conditioned waiting areas, high quality seating and furnishings, and real-time information on 116 screens throughout the station.  Accessibility was considered during the new bus station’s design and development by adopting a semi-dynamic arrangement. Bus route groups are permanently assigned to groups of stops so that passengers will always wait in the same area. Individual bus arrivals are dynamically assigned to stops within that group. Fellow travellers have a role to play in creating accessible public transport journeys. | Photo of new waiting lounge at Wellington Street Bus Station, Perthc  Figure 13 – New waiting lounge at Wellington Street Bus Station, Perth, © Public Transport Authority of Western Australia Western Australia |
| **Christchurch bus interchange**  The planning and design of Christchurch’s new bus interchange included input from groups including the city’s Disability Advisory Group and an audit by the national Barrier Free New Zealand Trust.  Early and regular consultation with disability groups resulted in positive accessibility outcomes for all users. For example, the interchange features walking strips and electronic Braille information stands for people who are blind or have low vision, and step-free ground-level access and signage heights and types designed with all users in mind. This bus interchange also uses dynamic stop allocation. | Figure 14 – Consultation with disability groups helped achieve positive accessibility outcomes for all users © Otakaro Limited |
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|  | 3.6 Return journey planning |

Once people have reached their destination, they usually need to return to their origin. This involves retracing their steps to undertake the return, or journeying on to another location.

People should be able to easily find the start of their return journey by re-tracing their travel path, but this is not always a smooth process, especially for those with accessibility requirements.

People with disability often arrange their return journey as part of the pre-journey planning. Their travel plans may be fixed on returning on a particular service at a particular time. If their circumstances change while they are out, or if changes are made by the transport provider, it can be difficult to re-plan their return journey.

**Aspirations for this journey part**

* People can easily re-trace their steps to find the public transport node that takes

them back to their origin.

* Return journey planning should be flexible so people don’t have to work to a rigid

return schedule if they don’t want to.

### How can we achieve this?

#### Paired stops

For bus coach and mini-bus services, bus stops should be paired, meaning that the inbound stop has a corresponding outbound stop that is easily accessible. For example, placing bus stops on opposite sides of the road to each other and having suitable safe crossing points, such as traffic lights, pedestrian refuge islands and kerb ramps depending on the local setting. This will help people to easily find their return bus stop. Naming conventions for paired stops should be consistent, for example, ‘Stop A Inbound’ paired with ‘Stop A outbound’42.

#### Journey planning tools

Journey planning apps should be easy to access and use. For example, return journey functionality should be incorporated so that it is easy to reverse a journey in the app and be guided to the relevant boarding point and service.

42 Vision Australia and John McPherson submission on the draft guide.

Geolocation features should also be incorporated into apps so that people can use this function to locate themselves and plan a return journey. ‘Favourite’ journeys should be saveable so people can easily access their favourites to get up-to-date information about service times. Overall, planning information should dynamically adjust to the user’s location and the time of day (including tidal changes for ferries) to help identify a return journey.

#### Real time information

Information about arriving services should be provided in real time either by signage, audible announcements or via an app to enable people to plan their return journey.

#### Customer service

As with pre-journey planning, the return journey benefits from the support of customer service advice and direction. This may be more critical where the level of direction and assistance for people with disability may be higher as they are starting from a location which is less familiar.

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|  | 3.5 Disruption to business as usual |

Occasionally, there may be disruptions to the usual operation of the public transport system. Examples are cancellations of services, closure of a train line or busway, weather related disruptions such as severe storms or fog, vehicle breakdown, replacement of

a train with a bus service, or evacuation of a vehicle or station due to an emergency. Disruptions can be planned or unplanned. A planned disruption is generally well managed with advance notice, and alternate transport arrangements can be put in place to minimise disturbance as much as possible.

Unplanned disruptions are generally more difficult to manage as information about the nature of the disruption and alternate arrangements can be difficult to source and communicate.

When disruption occurs, people should be made aware of the situation, how they should respond, and whether there are alternative arrangements in place for them to complete their journey.

People with disability say that disruptions are highly stressful and the possibility of

disruption is a significant barrier to their participation in public transport journeys.

**Aspirations for this journey part**

* People with disability are no more impacted by a disruption than their fellow travellers.
* People with accessibility needs know where to go or who to ask for information and assistance if there is a disruption.

### How can we achieve this?

#### Disruption management planning

Managing disruption should consider people with accessibility requirements. This includes involving people with disability in planning and training evacuation activities so that management plans appropriately address the range of accessibility needs. This planning, testing, training and evaluating should be undertaken for a range of disruptions, from a broken lift to a major emergency.

Processes should be implemented so that any change to the environment within the vicinity of public transport infrastructure is assessed to determine its impact on

accessibility. This should not presume any degree of familiarity with the environment and be equally accessible to a new, intermittent, regular and overseas user.

#### Communication

Communicating disruptions should be across multiple platforms. For example, a person who is blind or has low vision may not be able to see a sign that provides details about a disruption which can cause confusion about the situation. A person with a hearing or cognitive impairment may not hear or understand an announcement. The WA Public Transport Authority has introduced a smart phone based warning system to alert commuters to service disruptions, and this initiative has gone some way to addressing the-issue.

Ideally communications systems need to integrate the disruption notification across the whole journey and its parts––journey start to end and back to the start again. In practical terms, this would integrate notification of pathway disruptions due to council road works, or utility company works, which result in public transport system and interchange disruptions. Creating an online space where people can discuss the accessibility of a particular stop/ station/interchange can be an effective way to support continued improvement in the whole journey. This can be achieved in partnership with public transport owners and operators.

Where vehicle replacement is needed due to a planned or unplanned disruption, it should be based on prior contingency plans which aim to provide the same level of accessibility as the original vehicle. For example, bus services that are replacing a train should be accessible, not replaced with high floor coaches. Where this is not possible, any change to accessibility should be clearly communicated and aids and assistance provided to enable access that ensures affected passengers are not unduly inconvenienced, for example, wheelchair accessible taxis.

Vehicle replacement should consider and provide guidance around situations where insufficient low floor buses and coaches are available and how the operator should manage such situations. This would include ensuring a percentage of replacement vehicles were accessible, having taxis on standby, and staff available to manage vehicle access and provide timeframes for the next accessible vehicle to arrive.

#### Help/meeting point

Providers should consider implementing a help/meeting point (with an accessible path to the area) in major stations, terminals and interchanges so people can seek assistance, especially during disruptive events. This area should have customer service staff or fully accessible help phones, and be visible, accessible and easy to navigate towards.

#### Real time information

Real time information about the nature of the disruption and alternate arrangements/ expected wait times should be provided via screens, audible announcements and apps.

#### Customer service

Customer service staff need to be trained on the importance of notifying patrons of changes, disruptions and emergencies, with particular focus on user groups that may require additional assistance.

#### Acoustic environment

During a disruption, the acoustic environment is likely to be more cluttered than usual because more people are being clustered together within an area and potentially with other environmental noise (e.g. thunder and rain from a storm). Disruption management planning should also consider this interference within the acoustic environment and have strategies for clear and concise audible announcements during events.

#### Vertical transportation

Management plans should be prepared for any disruption to lift or vertical access.

These should identify alternative ways to change floors where possible (see section 3.5.4).

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| Image of different types of disabilities symbolising various infrastructure that can be found on various public transport. | 3.8 Supporting infrastructure |

People interact with supporting infrastructure during their journey. This includes ‘hard’ infrastructure such as bathroom facilities, drinking fountains, signage, seating, shelter, lighting, maps and timetables. It also includes the ‘soft’ infrastructure such as customer service staff, other public transport operator staff and people involved in their journey. People with disability have highlighted the importance of both hard and soft infrastructure during their journeys.

Hard infrastructure generally provides a framework that commuters can travel within independently. It includes facilities (bathrooms, seating etc.) and signage to assist them along their journey.

But the soft ‘people’ infrastructure is also key to a successful journey. Customer service staff, drivers and other support people often make or break the travel experience.

**Aspirations for this journey part**

* Supporting infrastructure allows people to travel safely, informed and comfortably.
* Where assistance is required, there are people available, trained and eager to help.

### How can we achieve this?

#### Supporting the journey

The Disability Standards for Accessible Public Transport address a number of issues related to supporting infrastructure for public transport users. However, integrated planning and delivery of user needs is necessary to ensure seamless accessibility for the whole public transport journey. This should include, among other things, addressing specific needs in relation to seating, shelter, signage, wayfinding, drinking fountains, Wi-Fi, charging/power points, food and beverage, bathrooms and retail options.

#### Precinct planning and coordination

Stations and interchanges often function as the centre of many communities and are important nodes in a neighbourhood. Where public transport nodes sit within a precinct, such as a retail, health or sporting precinct, planners and managers should consider how supporting facilities can help increase accessibility across the whole journey.

#### Wayfinding

Wayfinding is important to enable people to complete their journey. Wayfinding strategies and plans should be considered, especially in complex, busy interchange environments. These plans need to consider multiple means of wayfinding to cater for people’s varied information needs (including static and dynamic forms). People with disability should be involved in creating wayfinding strategies and plans.

#### Excerpt from submission on the draft guide – Vision Australia

##### “Step-Hear signs are audio signposts which are detected by either a smartphone app via Bluetooth or by radio frequency via a wrist-worn activator. Successful trials of these audio signs have been carried out in Brisbane’s Queen Street Mall and King George Square bus station. At the bus station the signs identify boarding gates and various significant wayfinding decision points. The mall signs identify where people are in the mall and identify the escalators leading down to the Queen Street bus station”

* + 1. Customer service staff

People with disability have highlighted that access to customer service staff is often very important to their journey. These staff should be available within the station/interchange environment in a relevant, known area, ideally somewhere near an entrance to the public transport node.

There are examples in retail and banking where customer service has shifted to a proactive, concierge model where customers are offered individualised service at the start of their interaction, rather than people just seeking customer service staff when they have an issue. This may involve training frontline staff to enhance understanding of respectful service, together with an understanding of the broad range of disability that they may come across in their daily transport roles43.

Staff uniforms should make them easily identifiable in a busy environment. They should be well informed on accessibility in the station or interchange and its surrounding area, and their first task should be to determine the specific access needs of the customer, rather than making assumptions which can often delay or lengthen the journey.

#### Security matters

Security is an increasingly important part of our national transport infrastructure. Ensuring security requirements support people with disability requires careful consideration and planning by staff with appropriate skills and training.

43 Brisbane City Council submission on the draft guide.

#### Positive use of feedback

People with disability and other transport users should be encouraged to provide feedback about problems they experience as this helps transport operators improve accessibility.

Online feedback is quick and current. Sydney Trains uses Twitter to collect feedback, which is an excellent example of this. Alternative forms of providing feedback such as letters or facsimiles should also be provided where a user doesn’t or can’t use the internet.

Another effective way to gain and collate such feedback is the Snap Send Solve app. Local government authorities use this across the country to identify access issues so that they can be dealt with promptly. The app user takes a picture of the issue, adds any comments, and forwards it to the relevant local government authority. This is determined by the location of the issue logged on the app.

#### Bathroom facilities

Accessible facilities are required in any location where toilets are provided44 and should be kept clean, sanitary, available and safe.

Factors that need to be considered to achieve this may include the bathroom setting (for example, within a facility or elsewhere), staffing, maintenance and cleaning, lighting and security arrangements, and adequate space for carers.

Careful consideration needs to be given to the use of Master Locksmith Access Key (MLAK) bathroom facilities. These do not necessarily aid accessibility as not everyone who needs to use the facilities has access to a key. If there are justifiable reasons for using MLAK, customer service staff should carry keys to unlock facilities for users and accessible information needs to be provided at the toilet so customers know how to locate customer service staff.

44 Disability Standards for Accessible Public Transport 2002, Part 15.

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| **Bluetooth beacons**  Bluetooth beacons are being installed and trialled in a range of major transport hubs to guide people who are blind or with low vision through these indoor spaces. The beacons interact with apps on people’s smart phones and push information to the app as users travel past the beacons.. | Phone of person using smart phone  Figure 15 – Bluetooth beacons push information to travellers’ smart devices © Transport for NSW |
| **Assistance animal toilet facilities**  A good example of thinking beyond compliance is Brisbane Airport’s assistance animal toilet facilities. People who travel accompanied by an assistance animal have highlighted that transiting through an airport can be difficult if  they need to toilet their animal. They need to exit the building, toilet the animal then go through security screening again, a time delay that may not be appropriate within their journey.  Brisbane Airport has dedicated toileting facilities within the sterile area of both its domestic and international terminals, allowing the animal to be toileted without leaving the building. Sand or real grass is used, as many assistance animals will not toilet on artificial turf | Photo of airport animal toiletting facility  Figure 16 – Assistance animal toileting facility at Brisbane’s International Airport © Brisbane Airport Corporation |
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An initiative acknowledged as best practice model for improving the social inclusion of people with disability who are unable to use regular accessible public toilets is the

Changing Places initiative. This initiative45 incorporates a height adjustable adult-sized changing bench, tracking hoist system, enough space for the user and a carer, a safe and clean environment, and a centrally placed peninsula toilet.

Using and updating the [National Public Toilet Map](https://toiletmap.gov.au/)46 by industry, government and transport users with information on accessible bathroom facilities is suggested47.

45 [www.changingplaces.org.au](http://www.changingplaces.org.au/)

46 https://toiletmap.gov.au/

47 Carer Australian NSW and Carers Australian Vic joint submission on the draft guide.

Security considerations can be informed by crime prevention through environmental design ([CPTED](http://www.cpted.net/))48. This is a multi-disciplinary approach that looks at the built, social and administrative environment to influence and mitigate potential negative offenders.

**“If a journey does not provide a continuously accessible path from beginning to end, then it cannot be used, regardless of how many pieces of compliant infrastructure exist along the way”,** *quote by Cat Smith, Chief Executive Officer of VCOSS, 2011.*

1. <http://www.cpted.net/>

# What does this mean for us?

As users, planners, designers, policy makers, certifiers and operators of public transport services and infrastructure, we all have a role to play in creating accessible public transport journeys.

The Transport Standards provide a set of minimum requirements for compliance, but as can be seen in Part 3 of this guide, there is a great deal more to accessibility than just compliance with the standards.

This section of *The Whole Journey: a guide for thinking beyond compliance to create accessible public transport journeys,* provides a set of key principles drawn from the discussion on the journey parts.

## We all influence accessible public transport

It is clear that an accessible public transport journey requires more than just infrastructure and conveyances that comply with the Transport Standards. The success of a journey also relies on accessible surroundings, built environments and positive interactions with people along the way.

Even if you are not directly involved in planning, designing and operating public transport, you often have an indirect influence on public transport accessibility through planning, design, construction, implementation/operation of policy, public realm, land use planning, roads, buildings, structures, events, customer service and other parts of everyday life.

This puzzle of planning, design and operational elements needs to fit together and

complement each other to facilitate accessible journeys.

## Focus on human-centred design

We plan, design and operate public transport for people and the journeys they take. Rather than just focusing on the infrastructure piece we are responsible for, we need to think about the journey it facilitates. This is a change of mindset, from what needs to be done to comply with standards, to what needs to be done to best facilitate accessibility. It means thinking beyond compliance, beyond the boundary and beyond the scope of your project in partnership with transport users.

At the same time implementation approaches need to be multi-faceted to ensure they reflect the varied needs of users and are accessible for all individuals, including people with disabilities, regardless of their disability49.

49 Cerebral Palsy Support Network submission on the draft guide.

By taking this approach, accessibility, universal design and human-centred design considerations are brought to the forefront rather than being an afterthought. It’s about people and their journeys, not just public transport infrastructure.

## Accessible formats, data, apps and technology

Accessing information during all stages of the journey is critical. Presentation formats require a fit-for-purpose approach to meet the diverse range of accessibility needs, for example, large print, Braille, audio, and pictograms. Multilingual format also needs to be assessed. High quality presentation and delivery is essential, and information must be clear and concise regardless of whether it is visual, audio or another format.

With technology we have the opportunity to better document and understand our world. Big Data, the Internet of Things, smart devices and apps are changing the way we consume and create information. As a result, we can expect to see more options to individualise journey planning through richer datasets that communicate more than just public transport information.

Creating and sharing data about the built and natural environment is an important aspect of providing higher quality journey planning, or ‘journey management’ tools. Some of

this information will come from sources outside the public transport environment such as weather authorities, local government or transport authorities. We need to encourage the creation, certification and sharing of data to facilitate accessible journeys.

We also need to address accessibility within the digital realm by ensuring digital tools can be used by people with varied needs. Data from transport users can also be used to quickly identify access problems faced during journeys.

However, technology still needs to be seen as one of a suite of accessibly tools and options. For some users, technology solutions are not appropriate for economic or practical reasons.

## Maintaining the human touch

Digital technologies are influencing lifestyles, providing greater opportunities for access to and exchange of information, and connections to social and online networks. Experiences in our lifestyles are not purely digital, or purely physical. In the public transport system, digital technologies provide the opportunity for public transport staff to shift to ‘high value’ activities that rely on knowledge, expertise and responsiveness. Human interaction will remain a crucial element to facilitate accessible public transport journeys. We can’t just design out the need for customer service people and support by implementing technology based solutions, and expect that this alone will facilitate accessibility.

People like to know there is someone who can help them, either in person or on the phone. That person must understand their needs and be able to provide the information or assistance required to facilitate the journey. This means taking time to understand your customers’ needs at all parts of the journey.

Proactive, individualised, ‘concierge’ type customer service is proving a successful strategy in other industries (such as retail and banking). These services provide direct human interaction if needed and a degree of confidence and reassurance for customers. Such services can also help maintain customer service standards even if there are fewer staff.

## Infrastructure lifecycle from planning/procurement to decommissioning

Many designers, planners, engineers and stakeholders play a part in planning, designing, tendering/procuring, purchasing/contracting, constructing, certifying operation and maintaining/redeveloping public transport systems. These people enter and exit the project lifecycle as appropriate and are generally focused on the part they have to play. However, they all need to be focused on creating an accessible public transport journey, regardless of the project stage or their specific role.

Budgets need to be sufficient to meet accessibility requirements50 and cost-benefit tools should be applied to ensure maximum benefit51. Decisions made during planning and procurement, such as the choice of rolling stock, the height of platforms, the location and method of vertical transportation, and interface with the precinct, can have a lasting accessibility legacy for future operators and users of the public transport service.

Accessibility needs to be addressed early in the project lifecycle––and consistently throughout the project––through comprehensive engagement with people who will participate in future project stages, including transport user groups. This should include pre-procurement consultation with key disability stakeholders to ensure that accessible systems, fixtures and facilities are incorporated at the design stage.

Customer focused performance criteria should also be built into all stages of projects.

## Communicate, don’t correspond

Clear and consistent communication is key to understanding and resolving issues, negotiating outcomes and creating more accessible public transport journeys.

50 Queenslanders with Disability Network submission on the draft guide.

51 Department of Transport and Main Roads (Qld) submission on the draft guide.

Create a dialogue with user groups about their requirements, talk to people who are responsible for environments surrounding your project, engage with people who will inherit your decisions, share lessons learnt and research outcomes with your peers, and discuss user issues before they escalate into major problems.

By communicating and engaging with people, we better understand the issues and opportunities, and can make more informed decisions that take whole-of-journey accessibility into consideration.

We also allow others to understand the issues and opportunities we face and move towards a place of mutual understanding.

## Knowledge capture and sharing

Around the country and the world, people are doing great work to facilitate accessible public transport journeys. We need to better capture and share the accessibility hits and misses so people can build from this knowledge rather than starting from scratch.

To do this we need to communicate, build and maintain networks, evaluate and monitor accessibility and work with user groups to understand the success––or not––of an accessibility outcome.

## Accessibility when things go wrong

Planned and unplanned disruptions to the public transport network and the surrounding environment are key barriers.

We need to better plan for and manage disruption to ensure accessibility is at the forefront, not an afterthought.

We also need to consider how disruption outside the public transport system impacts people’s journeys, and put in place appropriate management strategies to limit this impact.

# Implementation

## Mainstreaming whole journey thinking in business practice

#### Business planning

Referencing the Whole Journey Guide in corporate documents is an effective way to mainstream whole journey thinking. For example:

* strategic and business plans
* state and territory government public transport action plans and implementation plans
* planning instruments in Commonwealth, state, territory, corporate and local authorities
* corporate guidelines for planning, designing, tendering, procuring, purchasing, contracting, constructing, certifying operation, and maintaining and redeveloping public transport systems
* disability policies and action plans
* corporate training resources.

#### Coordination within an organisation

Staff responsible for disability inclusion action plans or their equivalent are ideally placed to promote use of the Whole Journey Guide. This would support development and implementation of relevant policies and procedures with the aim that all modes of transport provide universal design with seamless access.

Within larger organisations this staff member should be supported by a senior executive champion.

#### Commercial delivery

Professional practitioners/consultants are encouraged to use this guide to inform whole journey outcomes.

#### Non-transport sectors

The Whole Journey Guide may suggest equivalent whole journey human-centred approaches in non-transport sectors, for example for the tourism and accommodation sectors52.

52 Western Australian Local Government Association submission on the draft guide.

#### Monitoring and evaluation

Monitoring business effectiveness is necessary to improve enterprise performance including public transport accessibility. It should include customer focused measures for all stages of project development and subsequent operations.

Tools or apps to help measure and evaluate the transport user experience are also important. For example, the Department of Transport in Western Australia developed a walkability audit tool.

#### Accreditation

Independent accreditation systems allow organisations to demonstrate their commitment and effectiveness in delivering accessible public transport.

For example V/Line is the first public transport operator in the world to be accredited in the Communication Access Symbol system that has been developed by Scope53 (see also figure 12).

## Working in partnership

#### Consultation

Consultation between all stakeholders and people with disability is crucial to planning, developing and delivering accessible transport services. Commitment and capacity of all parties to listen to, hear and respond is essential.

Planning consultation with stakeholder groups provides the opportunity to ensure meaningful and effective outcomes. This should include people with disability and also extend beyond ‘user groups’ to include individuals without affiliations to access a diversity of views drawn from experience.

Considering options (not just single proposals) by stakeholders is essential, and information should be provided in a variety of accessible formats. Investing in education and awareness may be required to underpin a consultation process.

Honouring agreed consultation outcomes is essential, however when changes to consultation outcomes are needed, checking back with stakeholders is necessary.

#### Collaboration

Collaboration requires understanding and consultation between stakeholders involved in different parts of the whole transport journey. This will provide the linkages to understand issues and opportunities and to ensure that journey parts connect without gaps. It may

53 Scope is a Victorian not-for-profit organisation (www.scopeaust.org.au).

take place at a number of levels including local, regional and inter-jurisdictional, and will potentially involve stakeholders from industry, user groups and individual users, non-government and government organisations.

Public transport providers seeking to improve accessibility can use collaborative opportunities to make connections and identify and test possible solutions. Collaborative forums may already exist as a foundation for discussion or alternatively a new specific purpose group may need to be formed.

There are a number of existing established groups that can support collaboration.

For example, state and territory governments have established groups that consult on accessible public transport matters.

Similarly many local government authorities have established accessibility reference and advisory groups. These may be well placed to work with transport providers to, for example, ensure pedestrian environments leading to transport infrastructure are fully accessible.

An initial discussion between collaborators will need to establish if there is sufficient purpose for a collaborative project. Collaborations may range from information sharing to action on joint projects. Stakeholder collaboration could also be undertaken through online surveys or by approaching specific disability groups and distributing surveys through member organisations and other relevant networks. Easy, fit-for-purpose cross

communication forums between various stakeholders may be needed for example, through

a Linked-In specific project group.

#### Leadership

Community and industry leaders who are committed to improving public transport accessibility can be critical to establishing purpose, facilitating change, setting action agendas and maintaining momentum and focus. Sponsors or champions can provide standing for a project within a community or organisation. Possible contenders to fill these roles should be identified early in the collaborative process.

## Regional and remote challenges

People in regional and remote areas face significant challenges in relation to public transport which is critical if they seek to access basic services such as health and education.

#### Challenges

Distance increases transport costs and journey times. Lack of services and gaps in timetables is common.

People living in regional and remote areas may only have a single bus service to get to their nearest centre and to access the services they need such as specialist medical treatment. That service may run at the beginning or end of the day, so the return trip is 12 hours later or the next day.

Bus stops may not be easy to identify, especially on roads that are unlit. Passengers can expect to receive no support on unstaffed rail platforms. Stops or stations with buildings are not likely to have any audible announcements. Station/stop services and amenities are frequently inadequate or non-existent, as is the case for on-board services. Air services may require travel in small aircraft which for some people with disability can be difficult to board, worse, possibly uncomfortable and/or demeaning to board, or even impossible to board. Aviation safety compliance can in some cases limit travel opportunities for users of large motorised mobility devices.

In remote areas, often the only form of transport is by small plane. Where there are no scheduled services, plane charter may be the only option, which comes at great cost. Bush buses are expensive.

In relation to remote areas, lack of accessible transport may force a person with disability and a chronic medical condition to live (and die) in a distant city, isolated from their family, community and country.

#### Finding solutions that meet local needs

Regional and remote settings frequently require a fit-for-purpose approach or tailored strategies and solutions to ensure public transport is accessible. This requires planning and solutions based on rural and remote design needs, not just urban design.

Local solutions can be enhanced by being identified, agreed and implemented with input and participation from the whole community. This guide can be used to support initial conversations and then be complemented by local discussions and engagement. The aim is to establish collaborative outcomes involving transport planners, local government and other professions. For example, Tenant Creek’s bus service and bus stops were instigated and built in consultation with the local community.

For some communities lacking accessible public transport, simple solutions such as access to a van to establish a ‘community transport’ service run by a local group may be needed. This can enhance access to transport, as well as improve economic, health and social outcomes. Where people rely on informal transport arrangements, these can be enhanced through systems that communicate information about opportunities to share private transport (community pooling).

Moving from urban models of transport provision to local fit-for-purpose models may need to be supported by cultural change that is open to innovation. Regulators may also need to ensure there is enough flexibility to support local solutions that can increase access

to transport for people with disability, subject to being consistent with their regulatory objectives.

## Education and training

Incorporating this guide in education and training curricula is an important opportunity to ensure whole journey thinking is embedded in future public transport practice.

This can include:

* tertiary studies in planning, architecture, engineering, design, building, certification,

social sciences, public policy and business

* vocational courses associated with construction, engineering and disability support
* corporate training
* community education.

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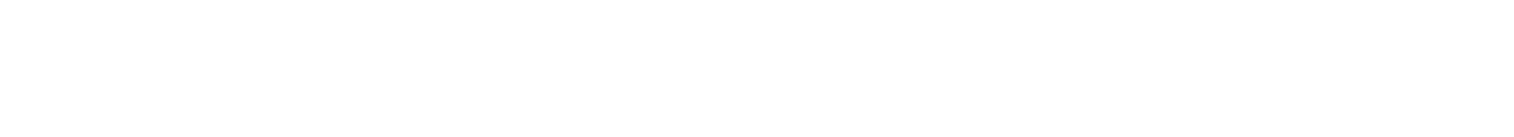
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2. <https://www.youtube.com/watch?v=lvmcCiRVzHo> [↑](#footnote-ref-2)
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