

# Clear Route

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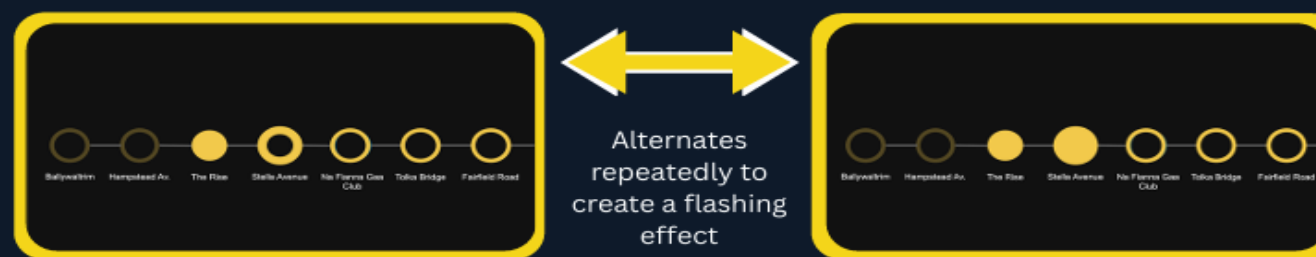


Research shows that people with **intellectual and developmental disabilities** use public transport **10–30% less** due to **accessibility and information barriers**.\*

Stakeholders report **unclear destination announcements, inaudible audio, and unreliable stop information**, creating **uncertainty and discouraging independent travel**.

Clear Route provides a **high-contrast visual route display** with **optional on-demand audio**, designed using Universal Design principles to improve **clarity, confidence and accessibility**.

## How Clear Route Works



Past = Faded | Current = Solid | Next = Flashing | Upcoming = Hollow

Displays stops in sets of seven; automatically scrolls as the journey progresses.



## Deployment

Units are distributed throughout the vehicle, with installations both downstairs near priority seating and upstairs on double-deck buses.



Clamp-mounted to the handrail with vibration isolation.

## Device Features

- High-Contrast Display** - Displays route progress
- Stop Info Button** - On-Demand Announcements
- Speakers** - Current & next stop audio (button activated)
- Headphone Jack** - Earphone audio support
- GPS Antenna** - Tracks real-time position

## Power Integration

The unit connects via a concealed **low-voltage cable** routed through existing interior wiring channels and fused into the vehicle's **24V onboard supply**.

## Universal Design Features

- Braille-labelled stop info button
- High-contrast visual route display
- Optional on-demand audio output
- Minimal text, predictable layout
- Multiple communication modes

## Impact & Sustainability

- **Increases independent travel confidence**
- **Reduces reliance on private cars**
- **Supports inclusive, low-carbon transport**

\*Park et al., Impacts of disability on daily travel behaviour: A systematic review, Transport Reviews, 2023  
National Disability Authority, Stakeholder Feedback, 2026  
Fighting Blindness, Stakeholder Feedback, 2026

Smarter Travel Student Awards

