

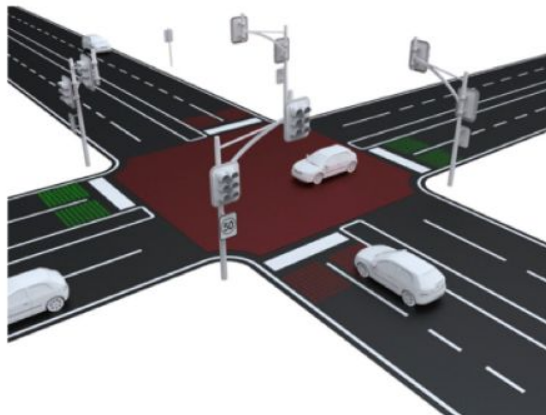


**Monash University Mobility Design Lab,  
Street Furniture Australia  
and IDS Digital.**



**Submission for the  
Smarter Hobart Challenge  
June 2021**









1989 QVB Bus Shelters

*We are a  
35 year old startup.*

Our mission is to bring  
lasting enjoyment to public spaces.



Canberra Light Rail



Barangaroo Ferry Wharf



Bellerive Beach, Hobart



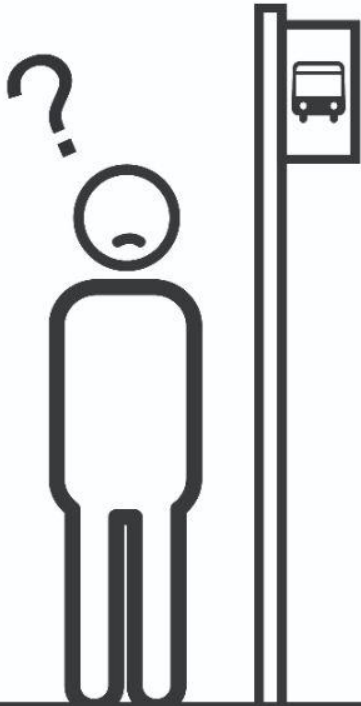
ChillOUT Smart Hubs

# **Our design approach**

- **User centred with focus on enriched experience**
- **Quality seating, lighting, signage and shelter.**
- **Enhances a hyper-aware digital integration and connectivity.**
- **Is modular, expandable and adaptable.**
- **Is low maintenance with a good sustainable life cycle.**
- **Resilient in the face of vandalism.**
- **Enhances a sense of personal security and wellbeing.**
- **Accessible to the breadth, needs and abilities of the community.**
- **Creates a distinctive addition to the Hobart landscape.**



Current Journey Experience





## Journey map: Bus stop user experience and digital service functionality

If app features real time information (RTI), passengers can reduce their bus stop wait times. Helps to reduce perceived safety concerns associated with waiting at isolated bus stops.



01. Pre-Trip

02. Getting to stop

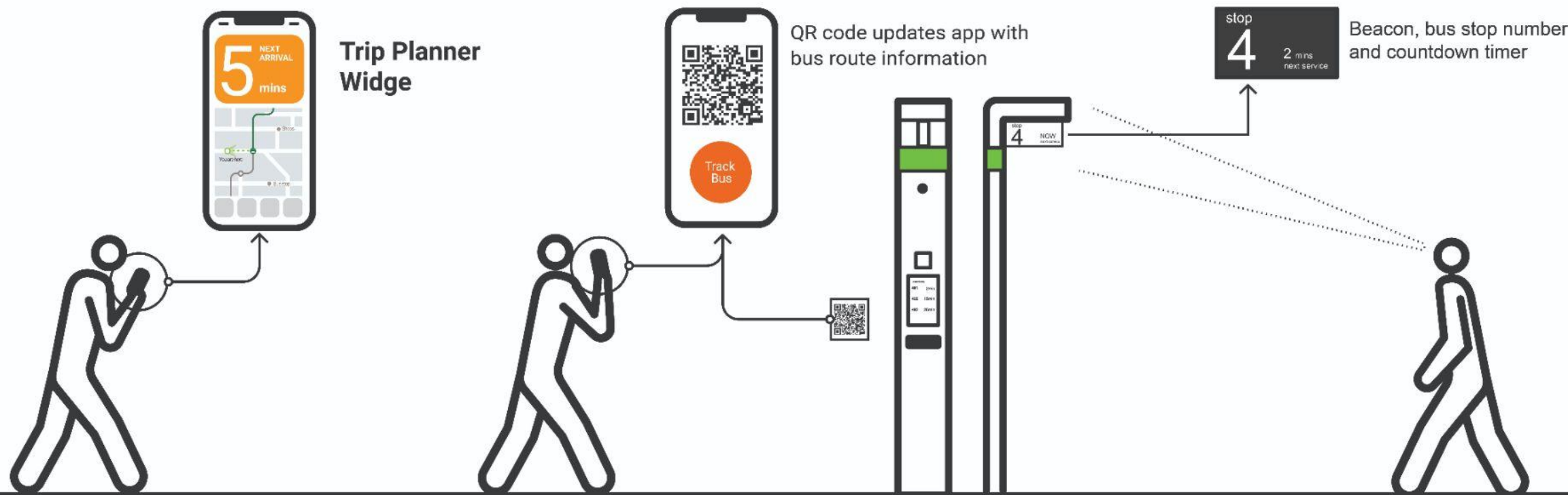
03. Waiting at stop

04. Bus arrives

05. At next stop

06. Alighting bus





01. Pre-Trip

02. Getting to stop

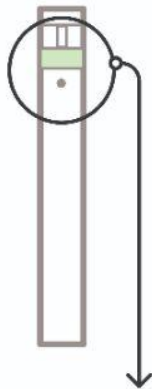
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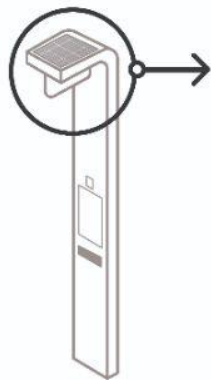




### Public announcement sound system Sensor + Camera

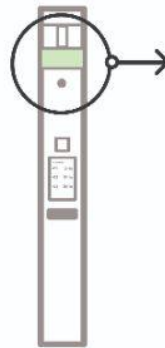
Detect people waiting at stop and activates following features:

- Announcements
- Lights to be turned on (limit light pollution)
- Target CCTV footage
- Activate beacon for bus driver
- Add features for those with disability



### Solar Panel

Inbuilt solar panels power stop amenities.  
Stops can therefore be built at any location, not relying on local power grids



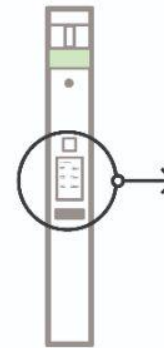
### LED Indicators

Stops visible from a distance  
• Identify active bus stops



#### For Passengers

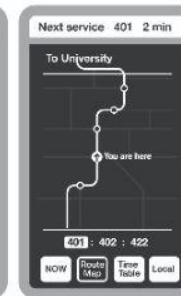
Green LED on when the bus has departed from the previous stop.



### Display

Real time information about the stop and surrounding environments

- Reduces uncertainty/ perceived wait time as passengers know when the bus will arrive



01. Pre-Trip

02. Getting to stop

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**Beacon**

Helps stop to be identified  
by bus passengers

- Night
- Wet weather
- Fog/ fogged windows
- Unfamiliar location



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02. Getting to stop

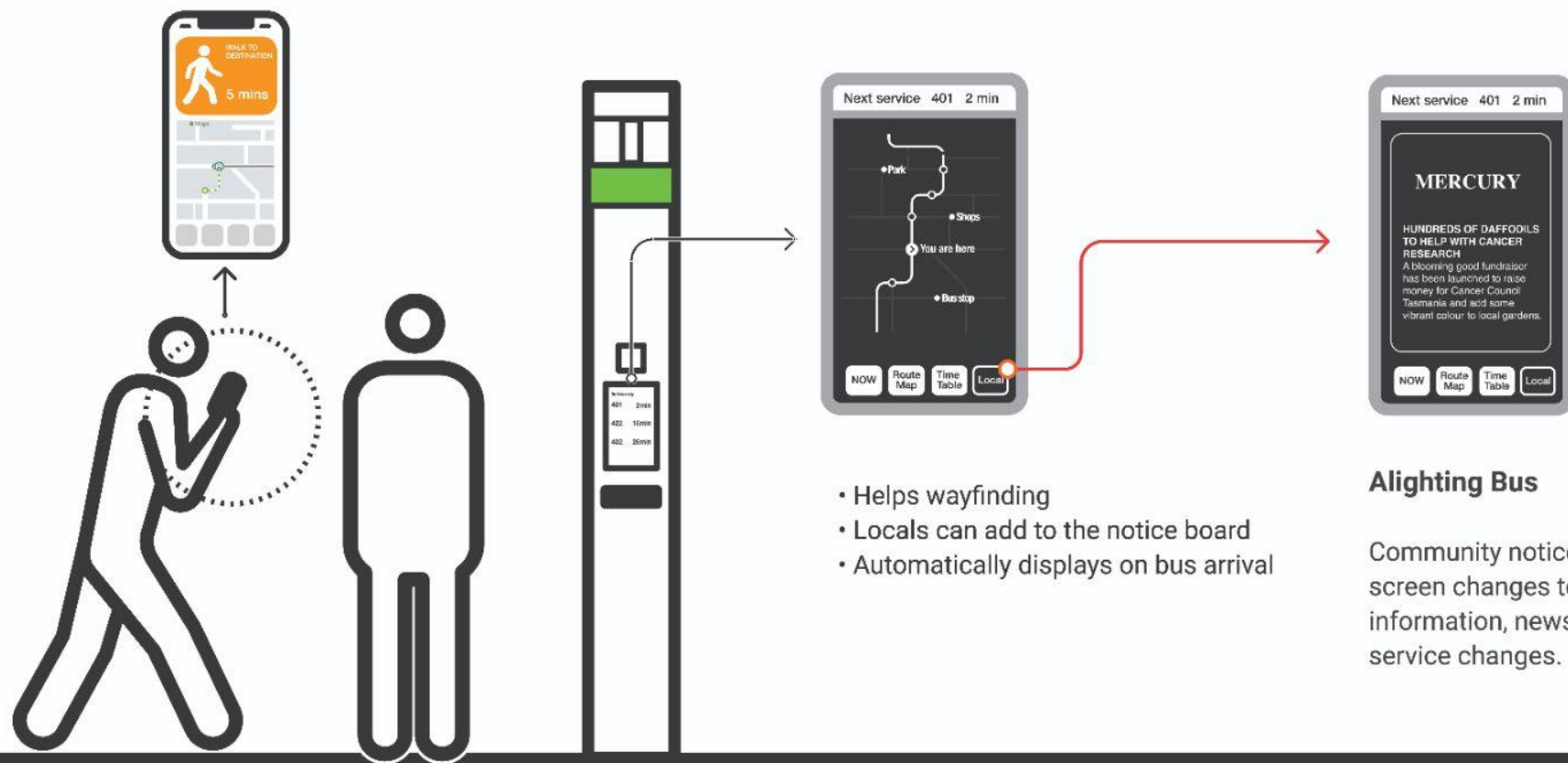
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- Helps wayfinding
- Locals can add to the notice board
- Automatically displays on bus arrival

### Alighting Bus

Community notice board Dynamic screen changes to show local information, news & events service changes.

01. Pre-Trip

02. Getting to stop

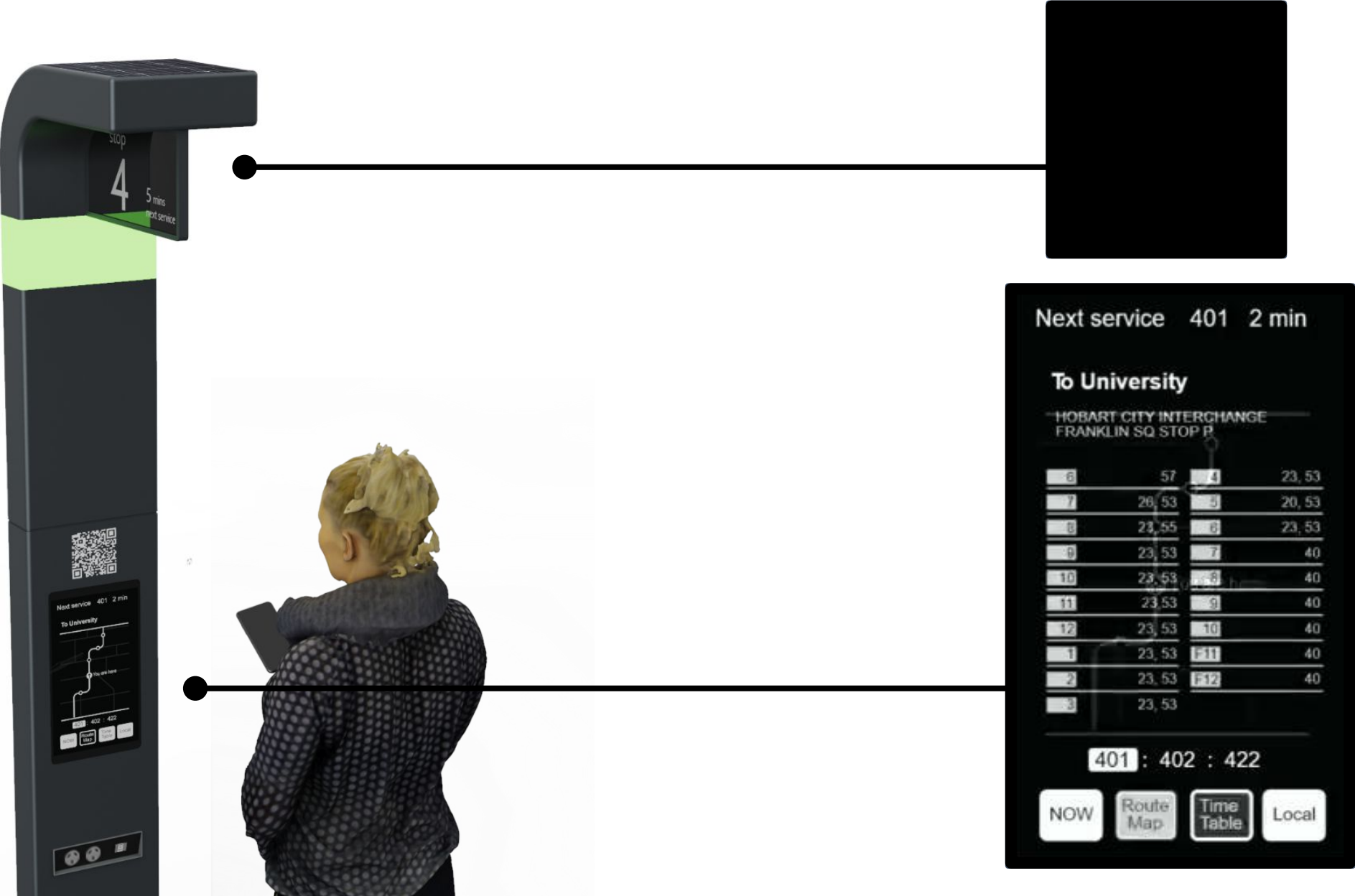
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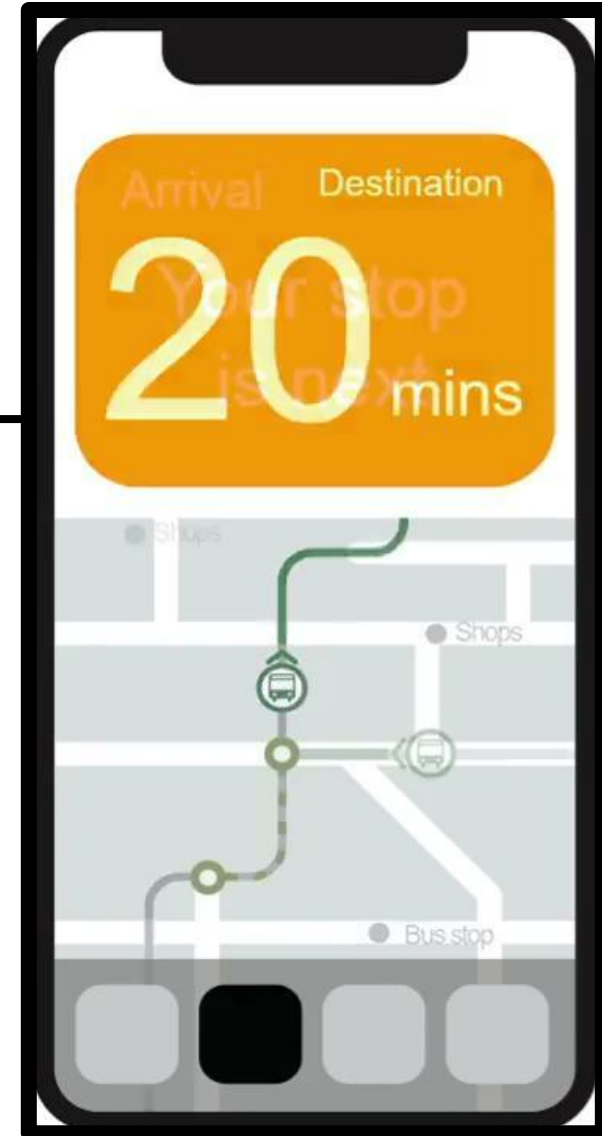
06. Alighting bus

# Bus Stop Display

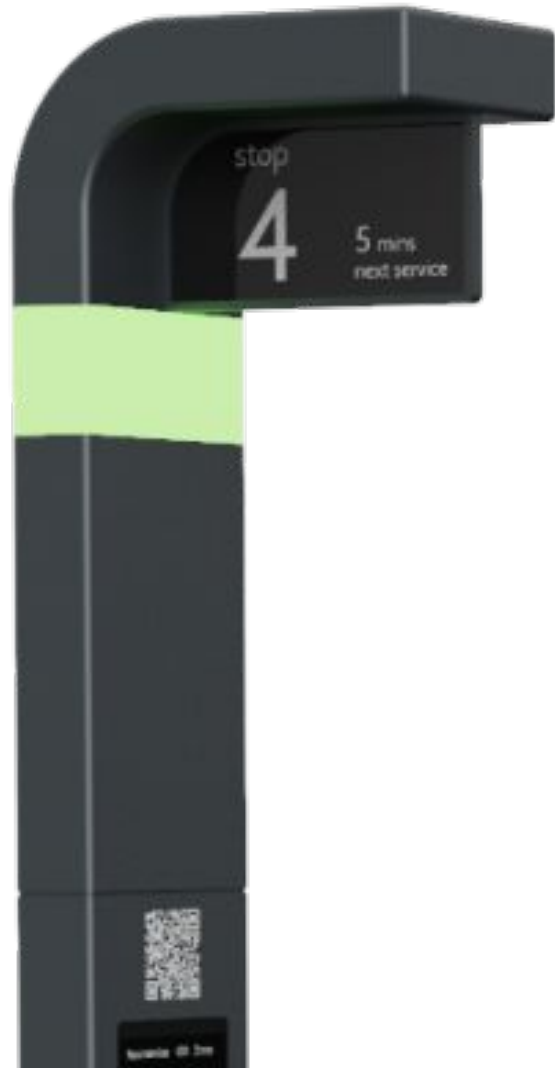




# App Walkthrough



**Base unit single totem for  
constrained spaces.**



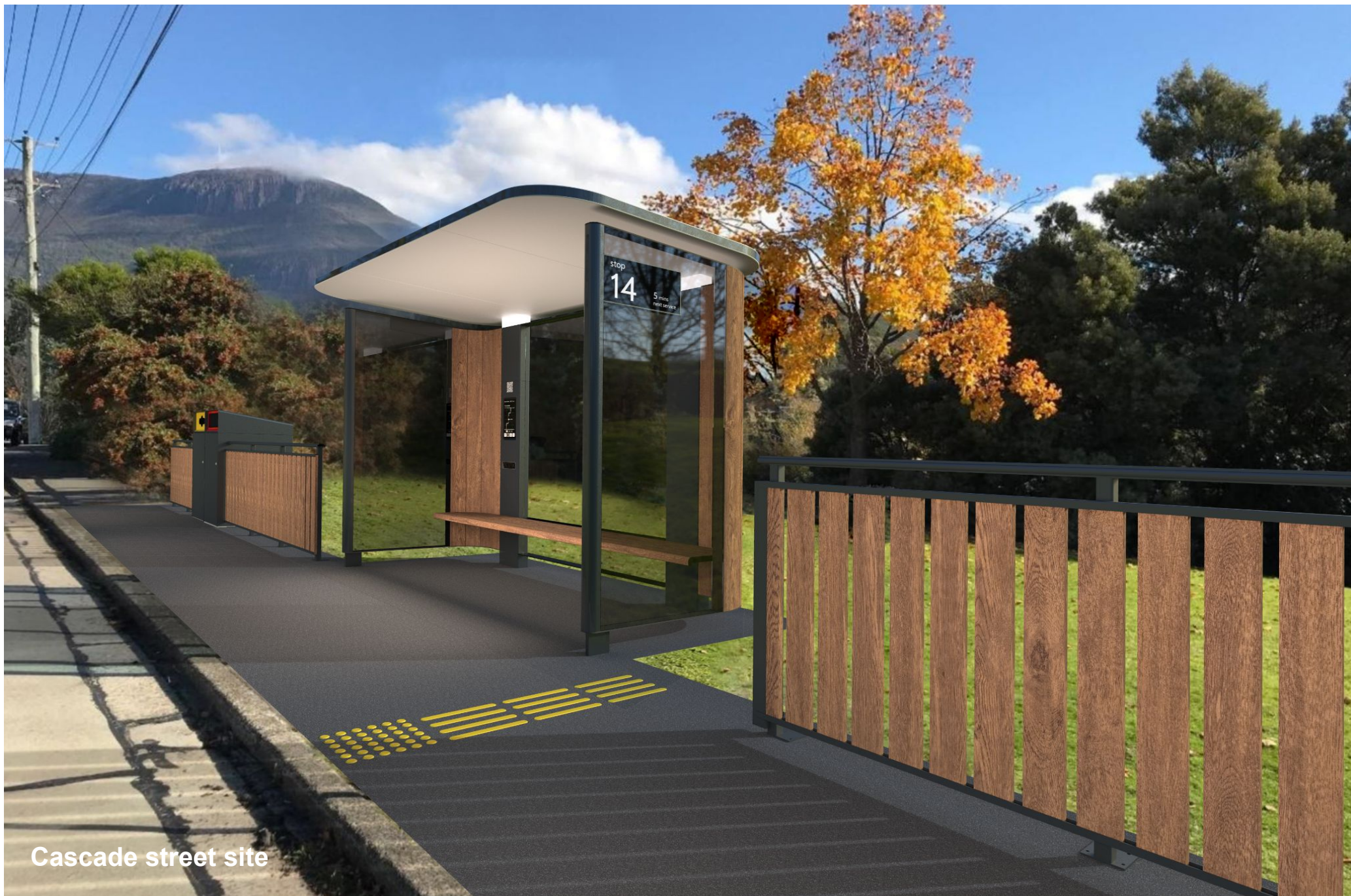
**Sandy Bay Road**



## Outer suburban single totem



**Urban  
twin totems,  
full digital  
experience**



Cascade street site



## Urban twin totems, full digital. (Cascade street site)





**Two totems with all-round weather shields. All glazed version.**



## Concrete seat substructure version



Two totems and digital advertising panel.





## Revenue generating options e.g. small coffee shop



## Revenue generating options e.g. Australia Post vending



## Multiple units for large interchange sites





**Structure to accommodate hills**



**Range overview - Modular, Expandable and Adaptable**



**Low fidelity  
mock-up**







## A complete range providing solutions in multiple environments



### What our range allows for

- ✓ Size options
- ✓ Operating system options
- ✓ Open and closed frame options
- ✓ Custom fabricated solutions to meet individual client requirements
- ✓ Custom designed API's and firmware solutions to ensure system compatibility and integration.
- ✓ Bespoke development for multiple environmental conditions and install situations



## Materials and finishes for **durability** and **low-maintenance**



Wood Without Worry (Woodgrain Aluminium)



Textura



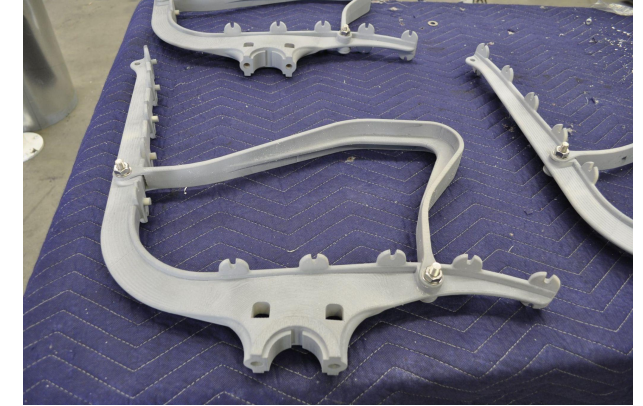
Durabright



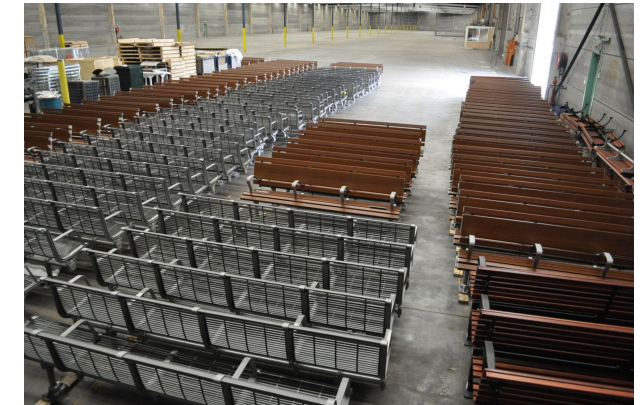
## In-house manufacturing and quality control to ISO standards



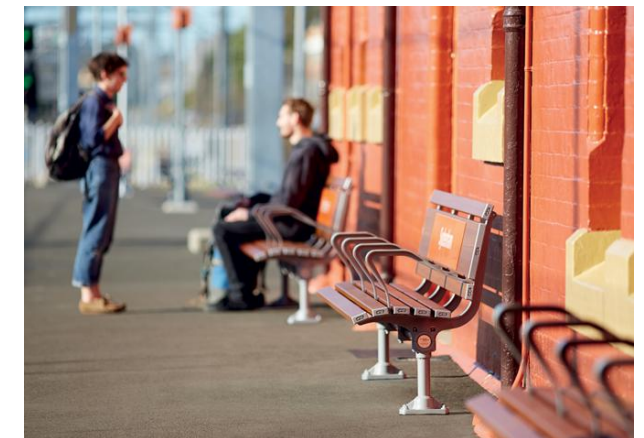
Regents Park Factory, Western Sydney



Inhouse prototyping



Manufacturing



Delivered to site





# Questions

# Other resources



[Link to app prototype](https://xd.adobe.com/view/d64cb8a0-d3bc-4452-aa82-fec928894128-831f/)

# Other resources

Next service 401 2 min

To University

4012min

42215min

40225min

NOW

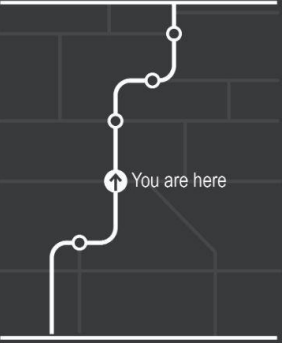
Route Map

Time Table

Local

Next service 401 2 min

To University



401 : 402 : 422

NOW

Route Map

Time Table

Local

Next service 401 2 min

To University

HOBART CITY INTERCHANGE  
FRANKLIN SQ STOP P

6	57	4	23, 53
7	26, 53	5	20, 53
8	23, 55	6	23, 53
9	23, 53	7	40
10	23, 53	8	40
11	23, 53	9	40
12	23, 53	10	40
1	23, 53	F11	40
2	23, 53	F12	40
3	23, 53		

401 : 402 : 422

NOW

Route Map

Time Table

Local

Next service 401 2 min

MERCURY

HUNDREDS OF DAFFODILS  
TO HELP WITH CANCER  
RESEARCH

A blooming good fundraiser  
has been launched to raise  
money for Cancer Council  
Tasmania and add some  
vibrant colour to local gar-  
dens.

NOW

Route Map

Time Table

Local

[Link to signage prototype](#)