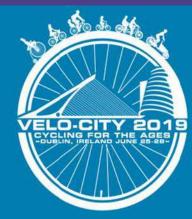


Dublin City & the Liffey Cycle Route

Roy O'Connor - Chartered Engineer



Velo-City 2019 'Cycling for the Ages' Dublin, Ireland, 25-28 June, 2019





Presentation Content

- Dublin context
- City Centre Transport Environment
- River Liffey
- Liffey Cycle Route
 - Policy
 - Technical Guidance
 - Hueston Station environs
 - Emerging Preferred Design images
 - Next Steps

Dublin Context

Co. Dublin has 4 municipal authorities

28% of the 4.78m population of Ireland

1.3 million in Greater Dublin Area (c.1.9 m in wider Copenhagen).

Economic driver for region

Est. 2.2 million Pop. 2031

Increasing journey demands



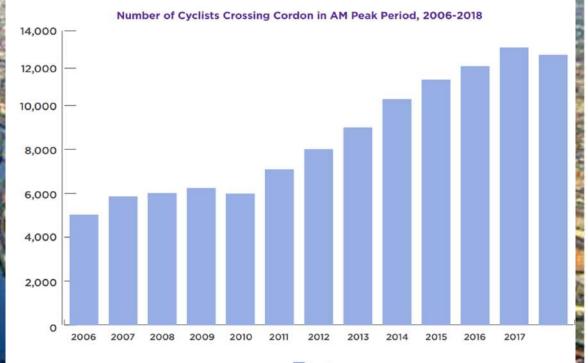


City Centre Transport Environment

- Historic city core (Narrow streets)
- Irelands biggest port 2km from centre
- Royal & Grand Canal encircle the city centre (115,000 pop.)
- 213,920 people every morning, 7am 10am (2018 data).
- 70% of people (148,600) use sustainable transport modes. Including;

Walking (23,856) Cycling (12,227), Bus (64,206) & Rail (48,306)

High west/east traffic demand through city centre along the River Liffey Corridor



Cyclists

River Liffey

Cyclist numbers now exceed 1,000 during the morning peak hours, along the Liffey Quays. Rathmines Road = 1700 (Highest volumes)

Traffic movement is tidal in nature.

There are no segregated cycle facilities from the west to city centre, mainly shared bus & cycle lanes

Cyclists exceed the numbers of persons travelling by car.

The Liffey Quays carry many of our primary bus routes with circa 370 buses (30,000 passengers) at peak hours.

Environmental Considerations include: Mature trees, bridges, street furniture, cultural & historic buildings.

River Liffey

- **Dublin** Port
- Convention centre
- IFSC
- **Customs House**
- Liberty Hall
- O'Connell Street
- Temple Bar
- Wood Quay (Viking)
- Christchurch Cathedral
- Four Courts
- Guinness Storehouse
- Croppy's Acre
- Hueston Station (Busiest)
- Phoenix Park

Liffey Cycle Route Project

RECONNECTING THE RIVER LIFFEY TO ITS CITY

Overall Objective:

To develop a Liffey Cycle Route which provide a safe, continuous & segregated cycle facility in both directions between Phoenix Park / Heuston Station & the Tom Clarke East Link Bridge.





Policy:

This transport strategy

Cycling (8.5.4.1)

The expansion of the strategic cycle network along all major water bodies including the River Liffey and the canals.

16 Objectives under cycling, including;

SHEET N1a

MTO9: To develop, within the lifetime of this plan, the Strategic Cycle Network for Dublin city - connecting key city centre destinations to the wider city and the national cycle network, and to implement the NTA's Greater Dublin Area Cycle Network Plan, and;

MTO13: In accordance with cycle routes identified in the National Transport Authority's <u>Greater Dublin</u> <u>Area Cycle Network</u> Plan.

Dublin City Development Plan 2016–2022

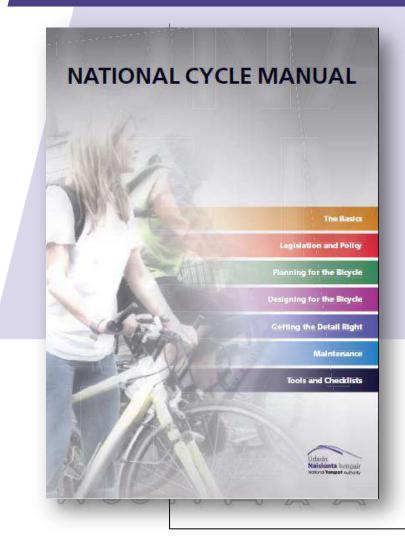
Written Statement

Comhairle Cathrach Bhaile Átha Cliath

C'Donovan

Technical Guidance





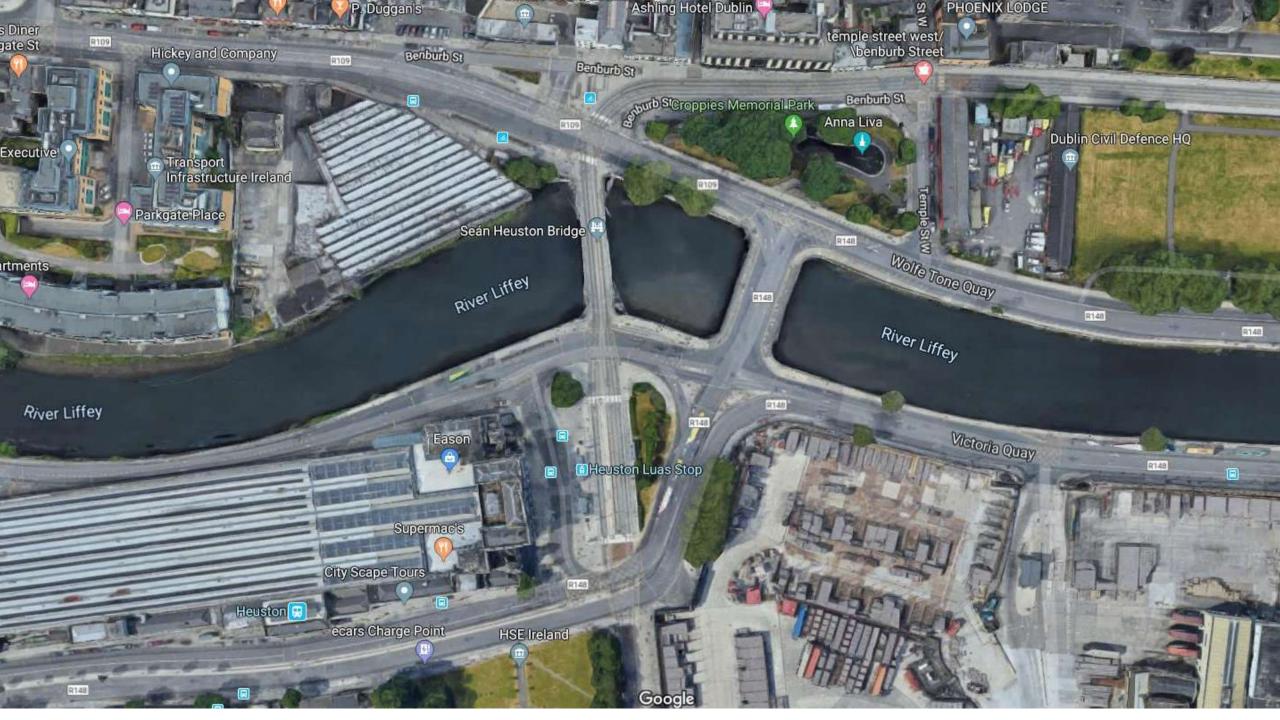


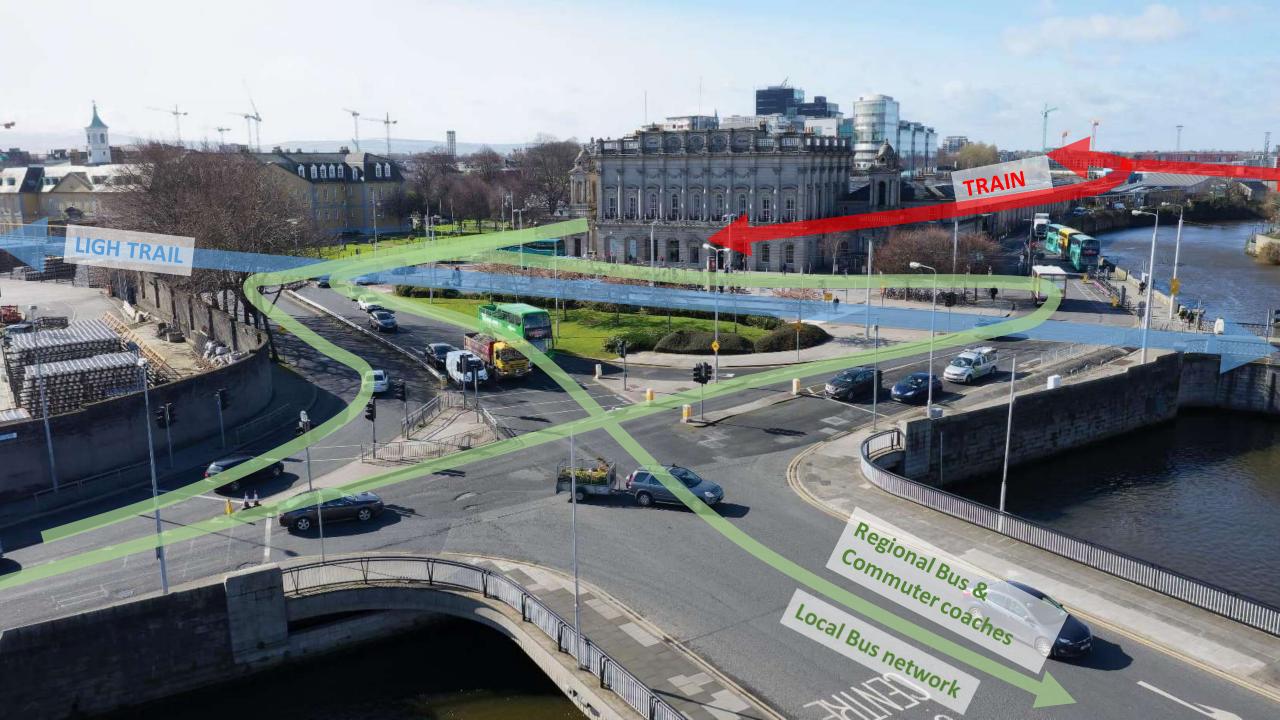
4.0 Designing for the Bicycle

4.1 Tips for A Good Design 4.2 Links Introduction 4.3 Link Types 4.4 Junction Introduction 4.5 Left Turns 4.6 Right Turns 4.7 Crossings 4.8 Roundabouts 4.9 Side Roads or T-Junctions 4.10 Transitions 4.11 Design and Construction Flowchart

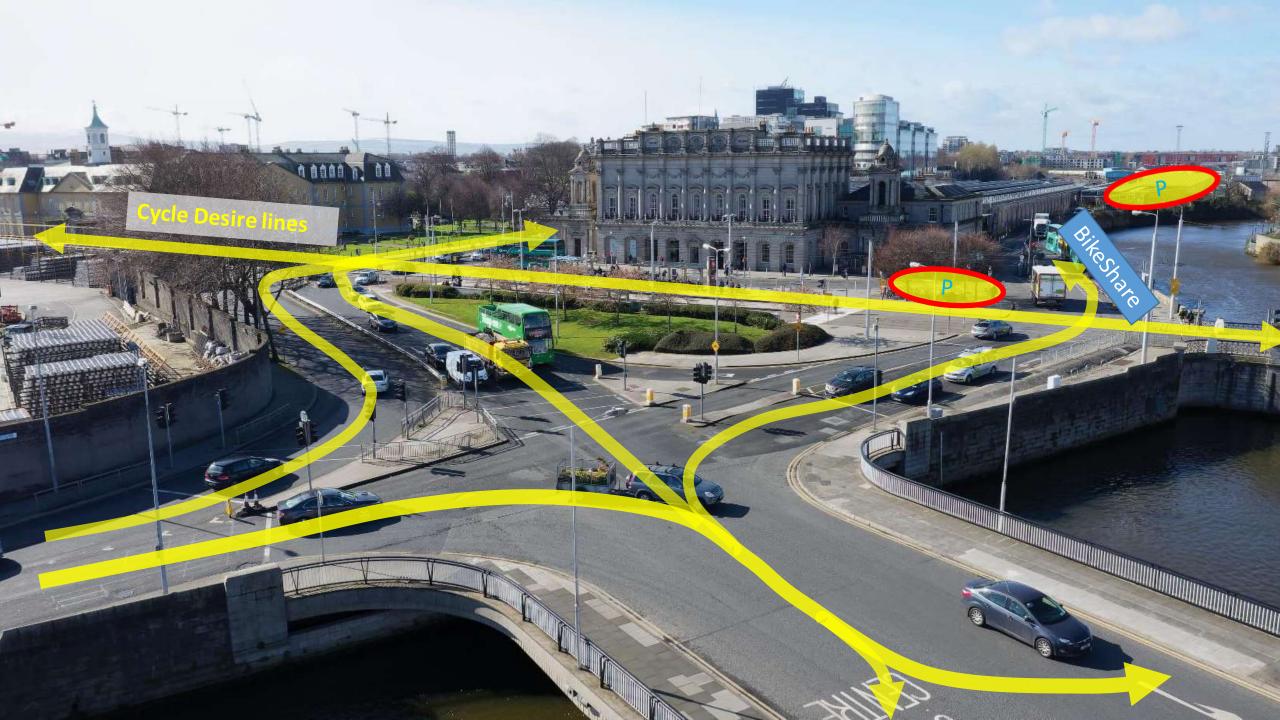
What do we want?

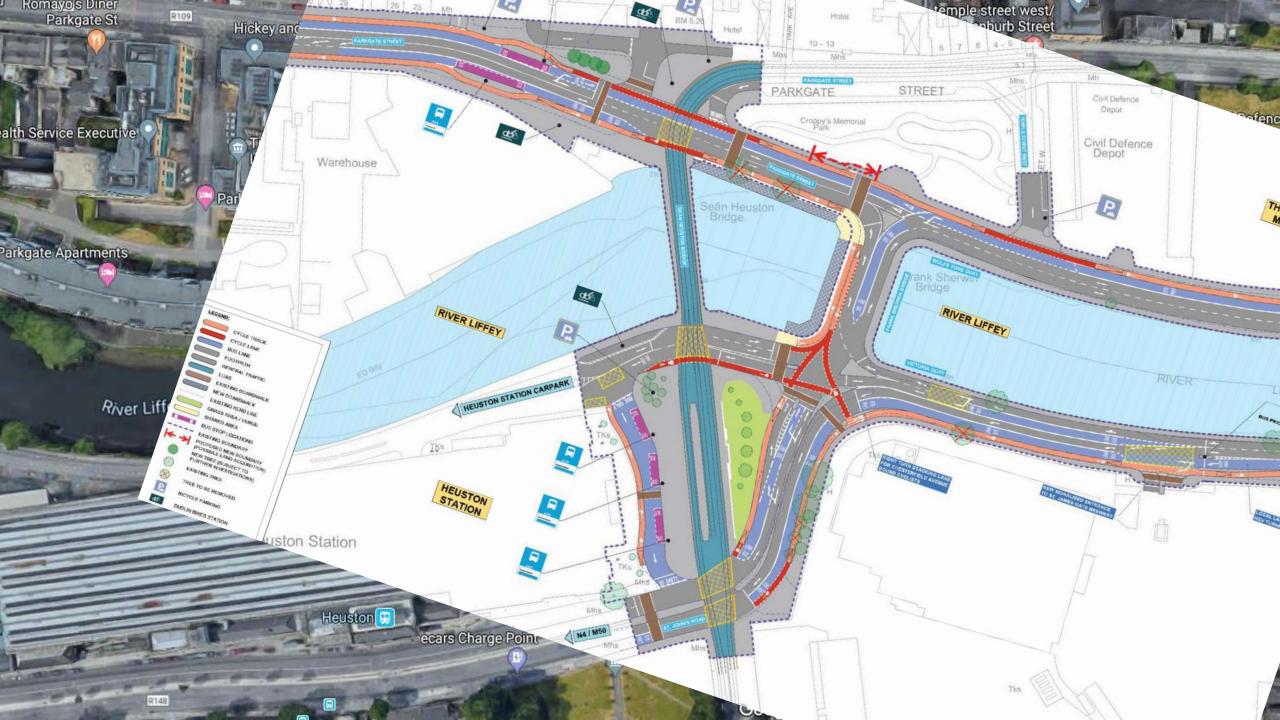
















Croppy's Acre

STEEL COLOR DING COLOR

Adjacent to the Army Barracks (now National Museum of Ireland).

Memorial Park and reputed burial ground of Irish rebel casualties of the 1798 Rebellion.

Wolfe Tone Quay

ACCOUNT OF A CONTRACTOR

Wolfe Tone Quay

ATTRACTOR STATE

Four Courts

Construction: 1786 - 1802.

Today it is the Supreme Court, the Court of Appeal, the High Court and the Dublin Circuit Court.

Headquarters of the 1st Battalion during the Easter Rising 1916.

Occupied by armed forces during Irish Civil War receiving substantial damage.

The "Witness Trees" to be retained

Inns Quay

UNAMA

PROPERTY



19 FORCE

919999999

Engineering Challenges:

20

High capacity bus stops –City centre stops.Change cycle lane to quay side of road.Trees area an obstacle

24 in rion MON - SUN

Bachelor's Walk

Engineering Challenges:

High capacity bus stops –City centre stops.
Change cycle lane to quay side of road

STATE OF

Bachelor's Walk

Transport Integration considerations:

Critical design item at detailed stage to integrate with :

Luas Dart Interconnector MetroLink BusConnects (along the Quays) GDA Cycle Network (along the Quays)

Station

Engineering Challenges:

1

Protected structures. Pinch point (Narrow street). High westerly traffic demand. Multiple conflicting turning movements

Wellington Quay



Next Steps:

Public Consultation closed June 2019 Present agreed scheme for statutory approval. Detailed design Construction (2021)



Thank you

www.nationaltransport.ie/public-consultations/

www.consultation.dublincity.ie/traffic-and-transport/liffey-cycle-route/