

## Keeping Ireland Moving



Transport & Mobility Forum Cork
Mix Your Mode Seminar
March 2020

#### What We Do



Bus, Rail & Light Rail



Integration & Technology



Taxi & Bus Licensing



Transport Planning &



**Investment Projects** 



Personal Travel Choices



## Current Issues facing our Cities



- Low density layout
- An over-reliance on private car travel;
- Significant peak-hour congestion and journey time unreliability;
- Significant dispersed traffic movements to, through and around the city centre area;

## Current Issues facing our Cities



- An inappropriate mix of transport modes within in the city centre due to limited road space;
- A public transport service and network in need of enhanced capacity and additional priority;
- A limited, discontinuous cycle network;
- Restricted footpaths, poor accessibility for disabled / mobility impaired





	Greater Dublin	Cork	Limerick	Galway	Waterford
Car	51.4%	62.3%	59.4%	60%	68.1%
Bus & Rail	19%	10.8%	7.5%	8%	4.4%
Walking & Cycling	23%	22.5%	25.1%	28%	20.1%

Travel to Work & Education: 2016 census; 2011 census for Galway

### Longer Commutes - Census 2016



- Commuting times rose in every county;
- The average commute for those at work rose in 2016 to 28.2 minutes, having fallen between 2006 (27.5mins) and 2011 (26.6mins);
- Close to 200,000 commuters (11% of all commuters) spent an hour or more commuting to work in 2016;
- This has increased by almost 50,000 persons (31%) on the 2011 figure of 152,000.

### Longer commutes - Census 2016



- Dublin city and suburbs saw a 10.9% increase in the number of workers commuting from outside the urban area;
- Number of workers commuting in to Cork city and suburbs increased by 13.5% between 2011 and 2016 and Limerick city and suburbs saw a rise of 13.1%;
- Over 40 % of workers in Cork commuted from outside the urban area while in Limerick and Galway city and suburbs, half the workforce commute from outside the urban area.

### What's the Solution?



#### Reduce demand for travel

 Better integration of land-use & transport planning

## Introduce demand management measures

 tolling, congestion charging, parking charges



### What's the Solution?



# Encourage greater use of sustainable modes

- Make existing public transport services more attractive
- Provide new public transport infrastructure
- Give higher priority to sustainable modes on existing roads
- Provide safe segregated walking & cycling routes
- Change attitudes to sustainable transport





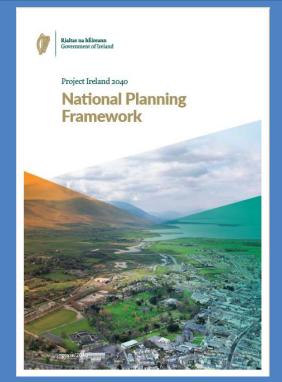


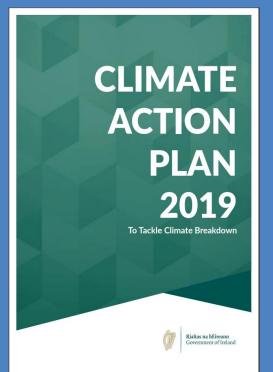


### **National Strategies**









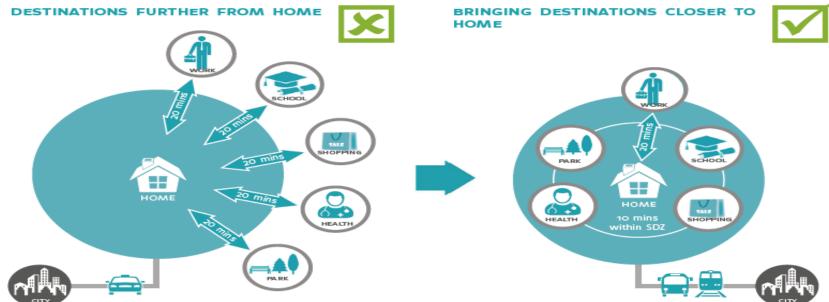
### Project 2040





## **Compact Growth**





Destinations further from home increase car use adding to congestion.

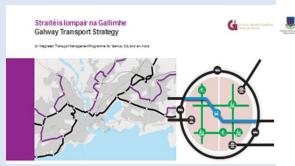
Destinations closer to home reduce car use and congestion

## **Strategic Transport Planning**



- Develop evidence-based strategic plans
  - ✓ Transport Strategy for the Greater Dublin Area 2016-2035 (Six-yearly review to commence in 2020)
  - ✓ Galway Transport Strategy
  - ✓ Cork Transport Strategy
- Limerick public consultation April 2020
- Waterford to commence in 2020





### Regional Transport Modeling System



- Developed regional transport models to support
  - ✓ Transport Strategies
  - ✓ Transport Investment
  - ✓ Transport Appraisal

Focus can be on peak trips to work/education

Hard to model cycling outcomes

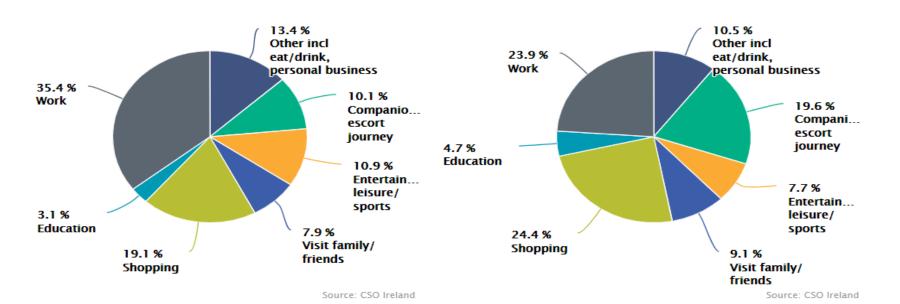


## Trip Purpose by Gender



Figure 3.1 Distribution of journeys by purpose – Males 2016

Figure 3.2 Distribution of journeys by purpose – Females 2016

















## CORK **METROPOLITAN AREA**

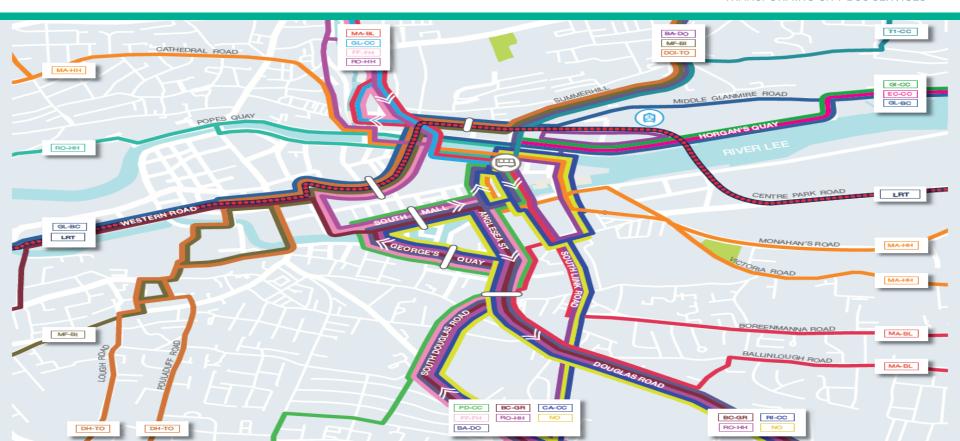
DRAFT TRANSPORT STRATEGY 2040



#### **Cork BusConnects**



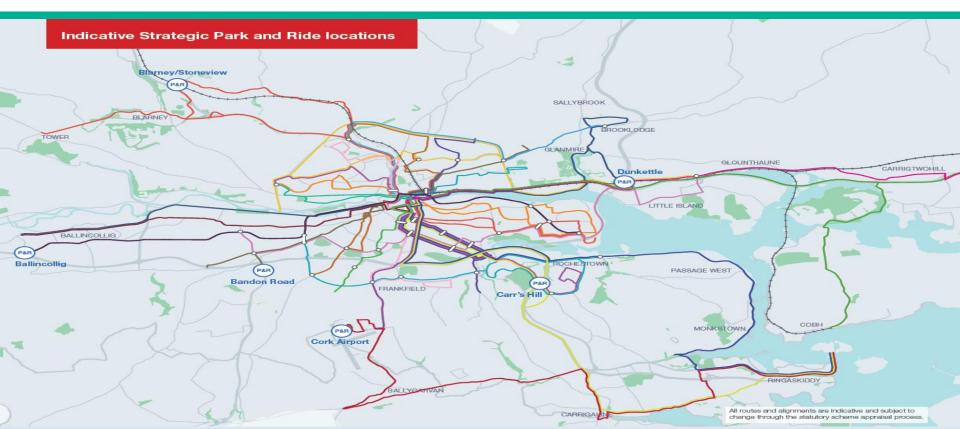
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### **Cork Park & Ride**



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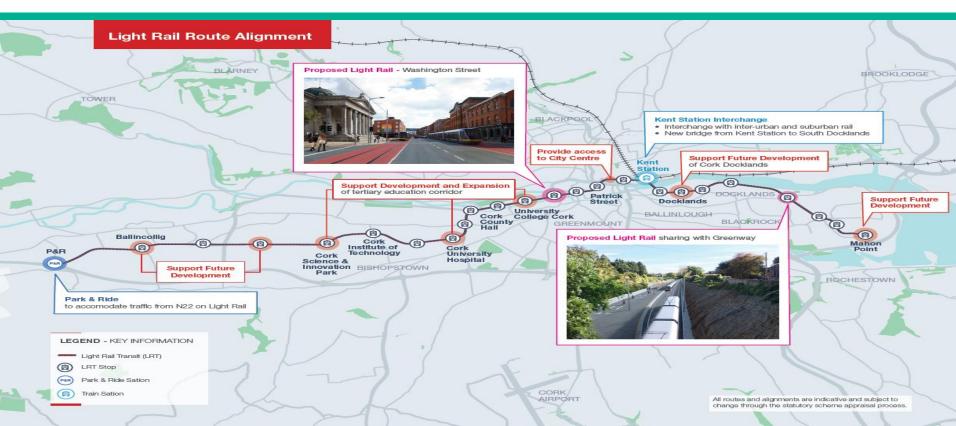


## **Cork Suburban Rail services**



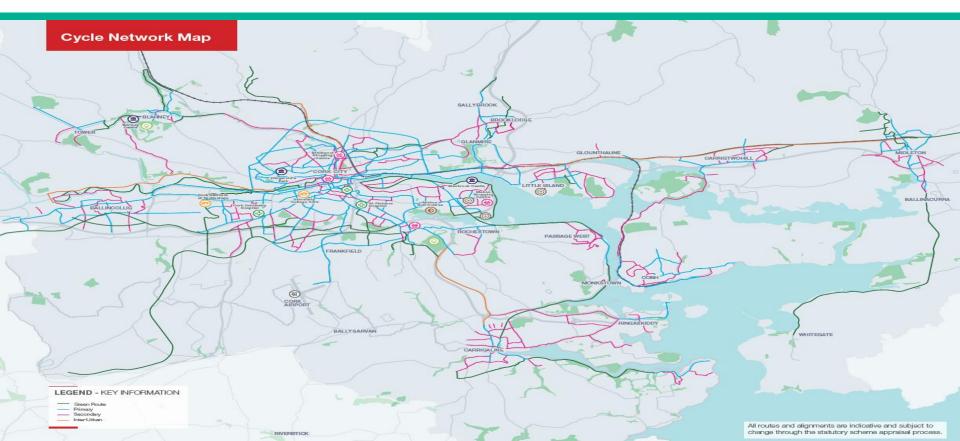






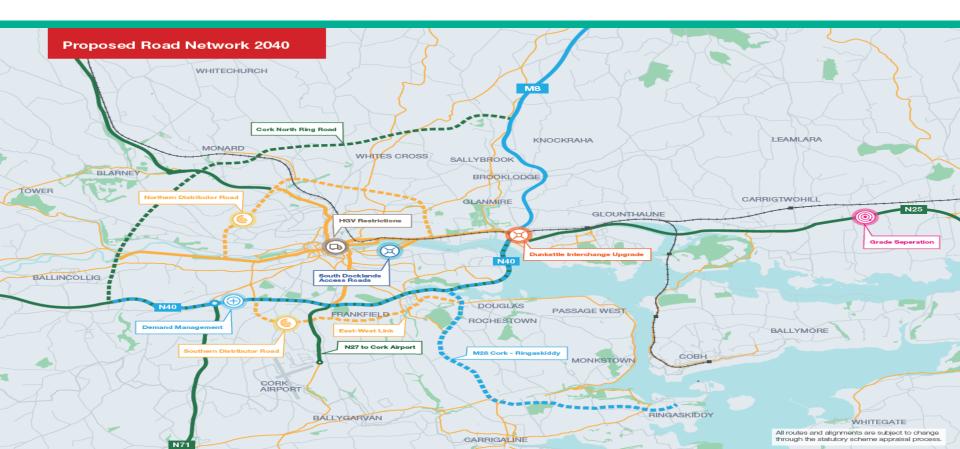
## **Cork Cycling Network**



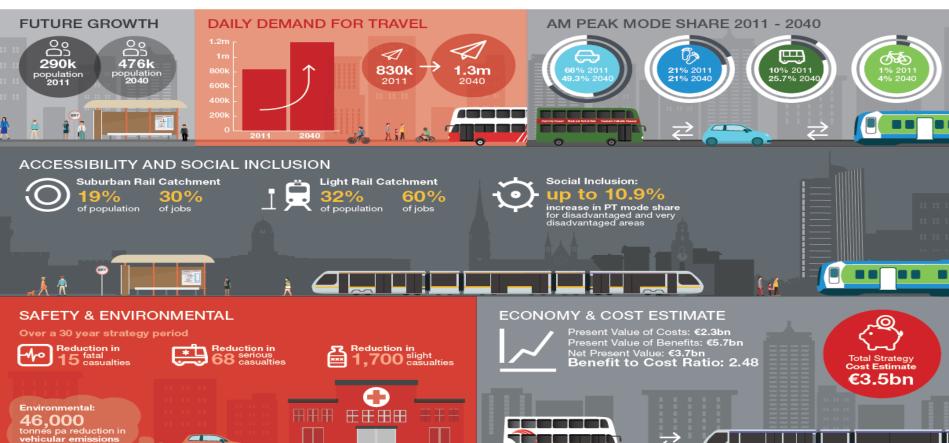


## **Cork Roads Network**





#### **STRATEGY** OUTCOMES



## Cork Strategy Next Steps



- Report on 171 submissions completed
- Final strategy to be published this afternoon
- Incorporation by Cork City Council & Cork County Council in their next development plans
- BusConnects team being established by Cork City Council & the NTA
- NTA will pursue implementation of Cork BusConnects & heavy rail improvements & the feasibility study on light rail



## Making public transport services more attractive



### Technology and integration



- National intermodal online journey planner and app has been completed
- Real Time Passenger Information signs & app available at <u>www.transportforireland.ie</u>
- Integrated ticketing via our Leap card



### Public transport improvements



- Additional services
- Improved reliability & punctuality
- Improved information at stops
- Transport for Ireland brand developed as the unifying brand

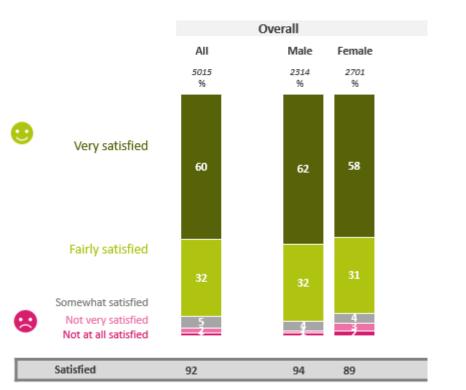


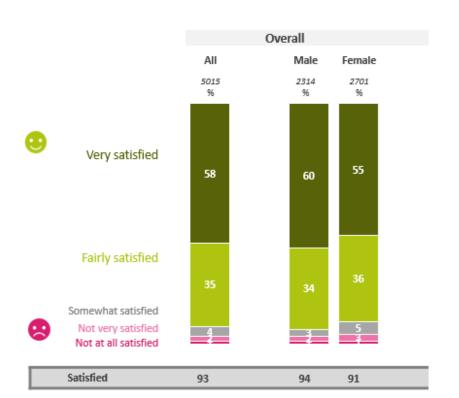
### Measuring customer satisfaction



#### Satisfaction with personal safety at the stop by gender



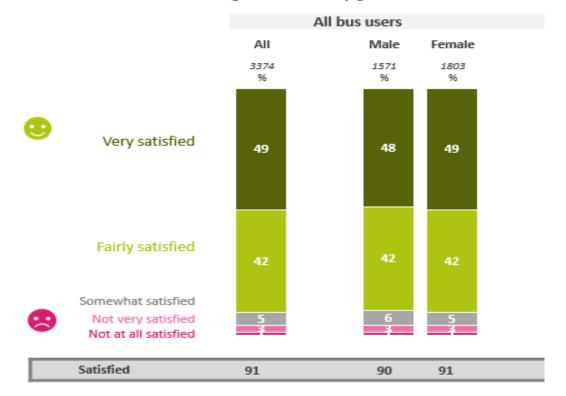




### Measuring customer satisfaction

## Údarás Náisiúnta Iompair National Transport Authority

#### Satisfaction with routes being convenient by gender:









#AndSheCycles campaign



# Provide new public transport infrastructure







## National Development Plan 2018 - 2027







## **Key Projects - Allocated Funds**

Metrolink €3bn

BusConnects €2.4bn

DART Expansion €2bn

Cycling Infrastructure









### **BusConnects: What is it?**



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A Network of "Next Generation" Bus Corridors



Complete Redesign of Bus Network



State-of-the-art Ticketing System



Simpler Fare Structure



Cashless Payment System



Park & Ride facilities



**New Bus Livery** 



New Bus Stops + Shelters



Use of Low Emission Vehicles

#### **Low Emission Vehicles**





- BusConnects will contribute significantly to tackling the challenges of climate change and reducing carbon emissions.
- Framework contract now in place for diesel electric double deck buses for urban services – first 100 to be delivered commencing Q3 2020
- Procurement of single deck electric buses to commence shortly
- Bus trial with 3 hydrogen fuelled double deck buses to commence in 2020





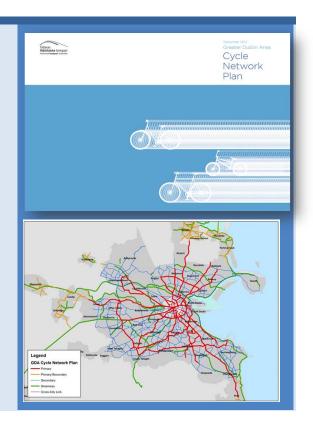
# Cycling Infrastructure 9





- Bus Connects will deliver improved cycling & walking infrastructure
- Cycle Network plans in place for all cities
- Need to dramatically improve our delivery rate of segregated cycling infrastructure

New NTA Cycle Design Office



## **Next Generation Ticketing**



- NGT will include the move to accountbased ticketing technology including open payments
  - Cashless city bus services
  - simpler & more integrated fares
  - allowing easier transfer between buses and onto trains and trams
  - Contactless EMV
  - "Mobile first"













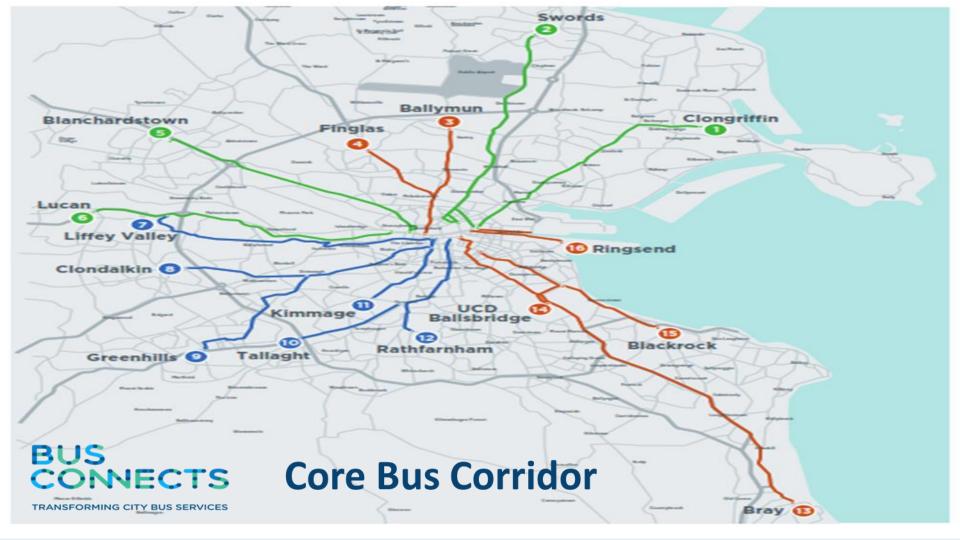


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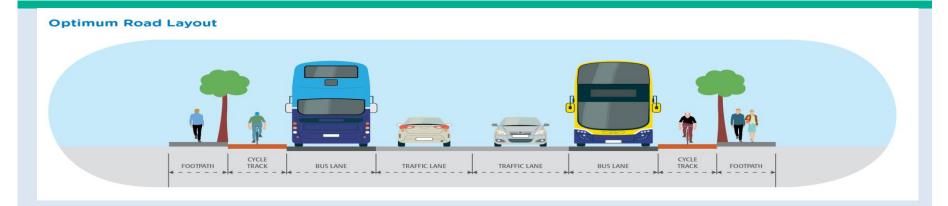




### **Target Road Layout**



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However, Dublin's roads and streets make it challenging to deliver this layout.

To achieve dedicated bus lanes & cycle tracks requires difficult decisions, including:

- ➤ Loss of portions of gardens and driveways
- > Traffic changes
- > Reduction of on-street parking
- Removal of trees



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#### Redesigning the Bus Network



- With over 130 routes (excluding Nitelink and Expresso) the current system of bus routes is complex, radially focussed and with limited orbital connections.
- The system is not designed to allow easy interchange between services.
- Under BusConnects we have undertaken a major redesign of the bus network.



### BusConnects Dublin Network - Equality Plan



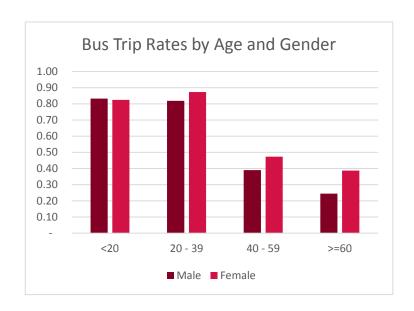
#### **Objective**

To prepare a plan supporting equality of access to the bus network. Approach

- 1. Consider **existing barriers** to equal access and what is being done to mitigate them.
- 2. Review a **sample of bus stops and journeys**, to support development of baseline data and assessment methodologies.
- 3. Prepare a **draft Action Plan**, consolidating and integrating existing actions with new activities.

### BusConnects Dublin Network - Equality Plan



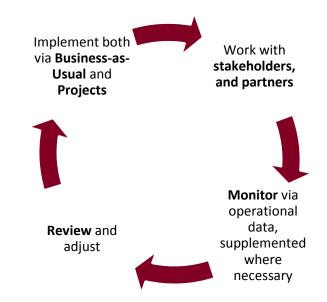




Women's trip rates are somewhat higher, while trip lengths are a little shorter.

### BusConnects Dublin Network - Equality Plan

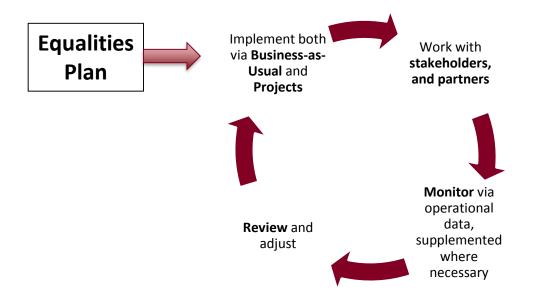




Enhancing equal access is a continuous process working across all activities

#### Implementation Process



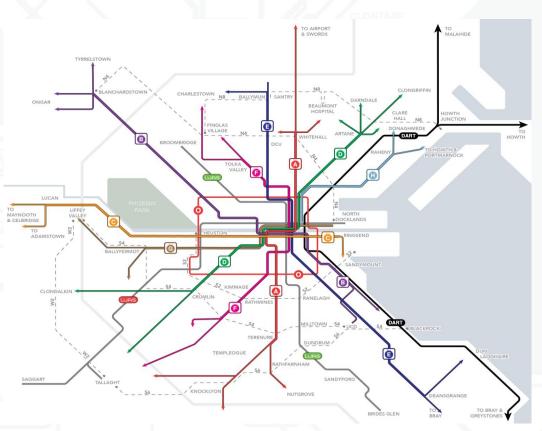


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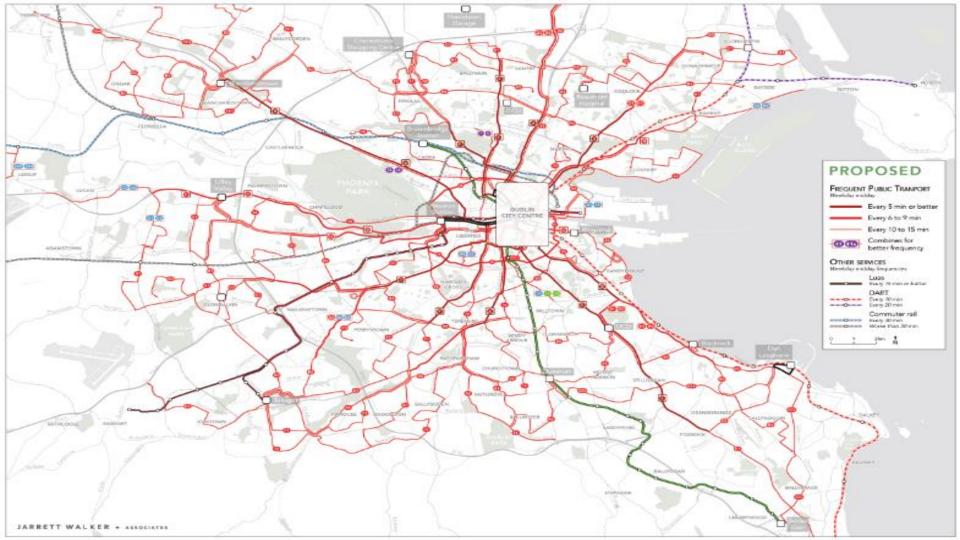
#### **Key Concepts**

- Spines: There are eight high frequency Spines
- Orbitals: There are ten orbitals covering the north, south and west of the city
- Capacity: More all day services
- Times: Longer service hours at weekends and evenings









## **Next steps**





#### **Bus Network**

- Second round of public consultation on network completed
- Close to 13,000 submissions received by web form, email, consultation forms and post
- Submissions are being analysed and some more changes will be made
- Final network will be published in Q2 2020
- Implementation in stages will commence in Q1 2021

## Summary



- Transport strategies for all cities will be in place by 2020/early 2021
- ✓ Planning process will have commenced for Metrolink, Dublin BusConnects bus corridors & Galway city centre bus corridor in 2020
- ✓ Procurement of diesel electric hybrid double deck buses and battery electric/electric rail fleet will be complete in 2019 & 2020 respectively

## Summary



- ✓ Cycle network plans in place for all cities NTA design office in place to speed up delivery – 3 fold increase in budget
- ✓ Additional Luas lines route options commenced
- Design work commenced on electrification of Dublin commuter rail
- ✓ Programme of Park & Ride projects to be developed

## Summary



- ✓ Lots happening to keep Ireland moving sustainably
- A lot more to be done
- ✓ We must ensure that equality of access is at the heart of all our plans