

# From Metrolink to Locallink; a decade of National Transport Planning



Anne Graham, Chief Executive Officer TPS Planner of the Year<sup>1</sup>2018

### Who We Are



Non-commercial state agency

- Agency of the Department of Transport, Tourism & Sport
- Government legislation setting out our powers
- National body
- More specific powers in relation to the Greater Dublin Area
- Staff of 110 with outsourced support of another 200
- Other services outsourced e.g. taxi licencing administration

## What We Were Set Up To Do



- Develop an integrated transport system
  - Safe, accessible, attractive, well-functioning
- Increased use of the public transport system
- Increased use of cycling and walking as a means of transport
- Value for money

### What We Do



#### Bus, Rail & Light Rail



#### Integration & Technology



#### Taxi & Bus Licensing



#### Transport Planning &



#### **Investment Projects**



Personal Travel Choices



## Challenge in transport planning





Metrolink

#### Locallink





# Sustainable Transport Usage





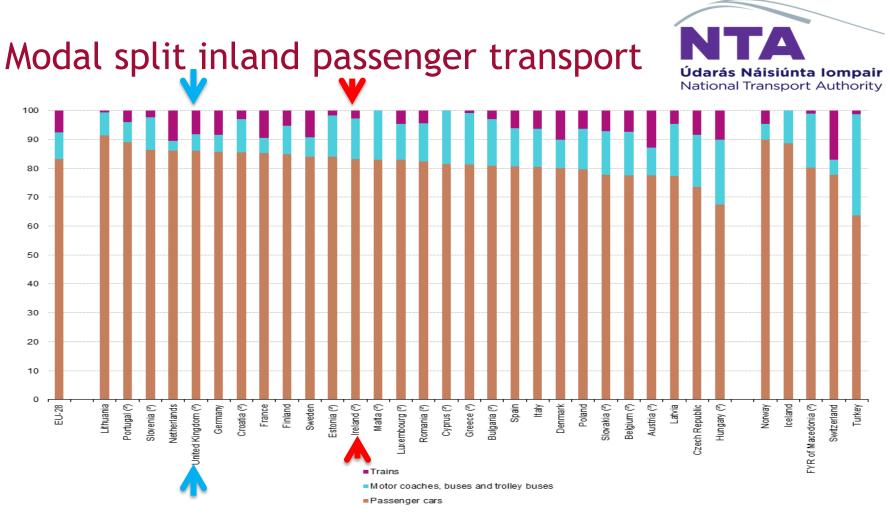


#### National

- Sustainable Mode Share 30.1% in 2011 and 2016
- Car Mode Share 69.9% in 2011 and 2016

**Greater Dublin Area** 

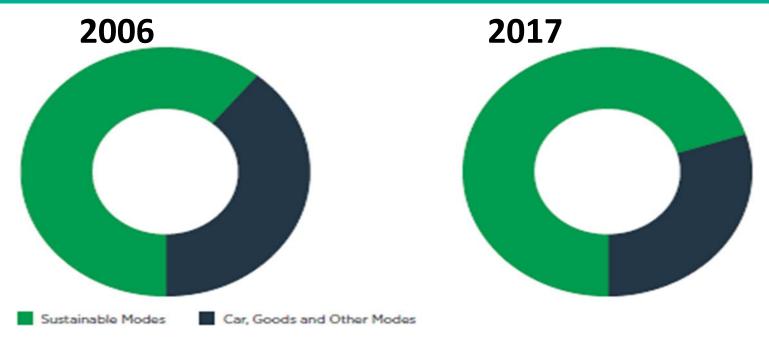
- Sustainable Mode Share 41.7% in 2011 and 42.8% in 2016
- Car Mode Share 58.3% in 2011 and 57.2% in 2016



Source: Eurostat (tran\_hv\_psmod) 2013 data

# Trend in trips by sustainable modes in Dublin city centre





Key points on modal split in Ireland



- ✓ High car usage nationally
- ✓ Mid-range compared to other EU countries
- ✓ Sustainable land transport
  - ✓ Low rail %age compared to UK
  - ✓ Higher bus %age compared to UK
- ✓ Growing mode share for cycling in cities



LUA

BUSAR

# Developing Public Transport Services

3003

## Providing funded transport services



EU Regulation 1370/2007 & DTA Act 2008 governs public transport contracts

State companies provide the majority of subsidised public transport

10% of subsidised bus services provided by other operators such as GoAhead Ireland & JJ Kavanagh

10% of bus services provided on a fully commercial basis

- No public subsidy provided
- Mainly intercity services



Commercial Bus Services represents 10% of all public transport passenger journeys

#### Key issues

- Competition regulated by NTA
- Significant growth in services on intercity market and overall growth in passenger numbers
- Getting appropriate balance between commercial and subsidised services

## Managing Rail Public Passenger Services



- NTA in contract with Railway Undertaking of IÉ only
- Dept of Transport, Tourism & Sport in contract with them for Infrastructure Manager
- New contract in 2019 will see stronger performance targets
- Underfunding of rail impacting on maintenance of infrastructure without compromising safety





- Radial intercity & commuter services into Dublin
- Focus on use of existing assets
- Efficiency of lightly-used lines
- Making case for investing in steady-state funding



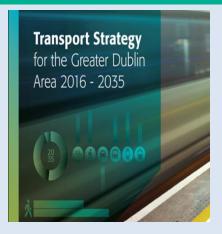
# Strategic Transport Planning



## Strategic Transport Planning

**NTA** Údarás Náisiúnta lompair National Transport Authority

- Develop evidence-based strategic plans
  - Transport Strategy for the Greater Dublin Area 2016-2035
  - Galway Transport Strategy
  - Cork Transport Strategy (almost complete)
  - Waterford & Limerick to be completed in 2019





## Regional Transport Modelling System



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



## **GDA** Transport Strategy



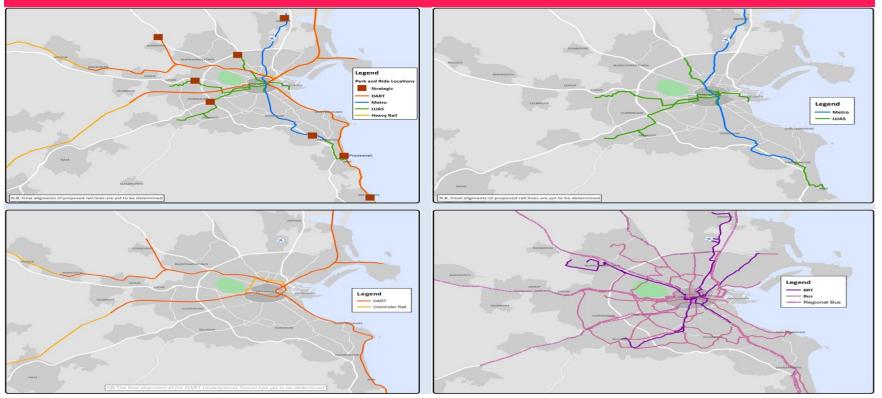
#### Is now a statutory document

#### Some key items

- New Metro North and DART Expansion Programme included
- Luas extension Bray only after Green Line is upgraded to Metro
- Luas proposals: Luas to Finglas + Luas to Lucan + extension of Red Line to Poolbeg
- Implementation of a core bus network including BRT

#### **GDA** Transport Strategy







#### Heavy Rail Network





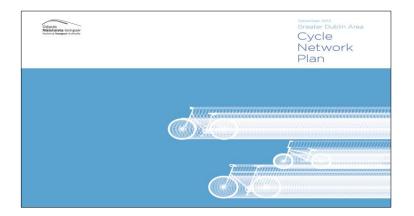
#### Light Rail Network

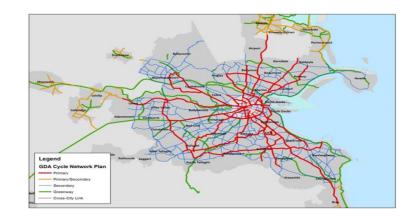






 To construct the Greater Dublin Area Cycle Network, expanding the urban cycle network to over 1,485 kilometres in length, and with over 1,300 kilometres of new connections between towns in the rural areas of the GDA.









- Meets the required 25% increase in travel demand
- Commuting by car to work falls from 62% to 45%
- Walking and cycling to work rises from 16 % to 20%
- Overall approximate cost of the measures in the GDA Transport Strategy is €10 billion i.e. €0.5bn per year
- Benefit to Cost Ratio of 1.5:1



# National Development Plan 2018 - 2027







• Metrolink €3bn

• BusConnects €2.4bn

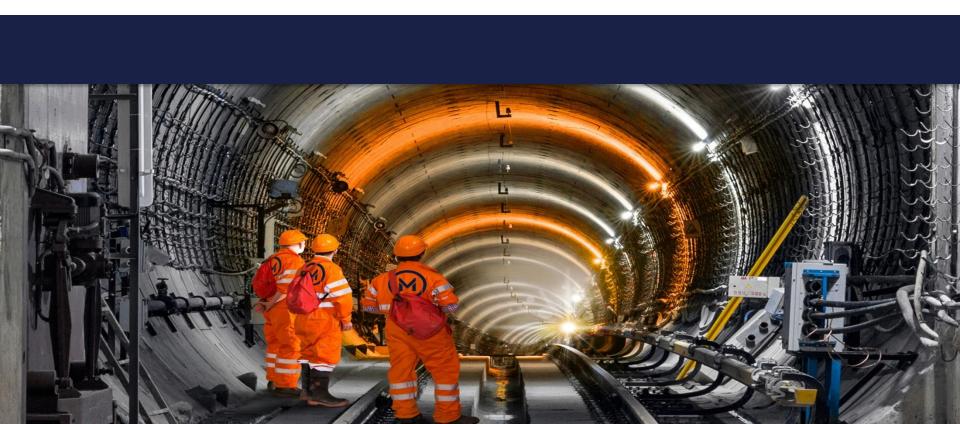
• DART Expansion €2bn

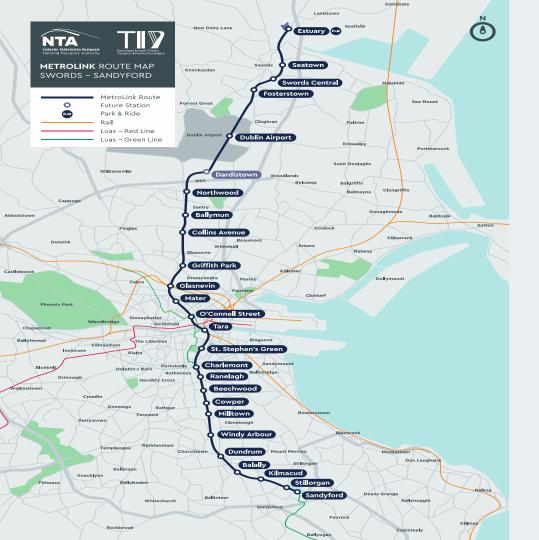
• Cycling Infrastructure

## METROLINK









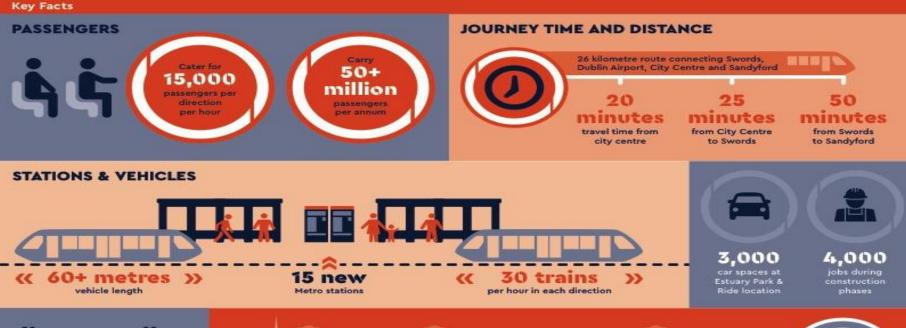




Metrolink

- Emerging Preferred Route published in 2018 for a full north-south high capacity spine from Swords to Sandyford by 2027
- Preferred Route to be published next week
- Metrolink.ie

#### METROLINK

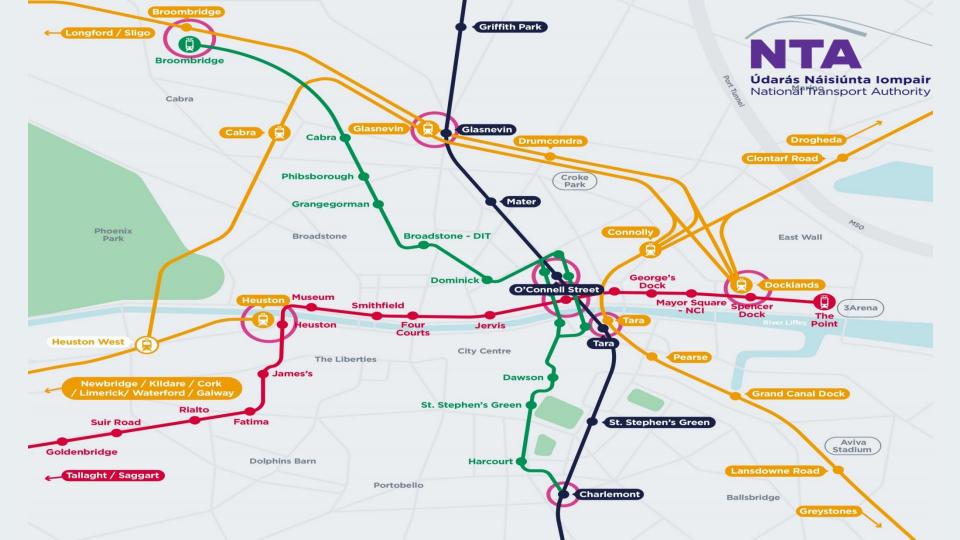




Connecting the DART system at Tara Street (city centre) & the Maynooth and Kildare Rail lines at Glasnevin



"subject to change as the public consultation progresses and final design is agreed



#### BUS CONNECTS

TRANSFORMING CITY BUS SERVICES



## BusConnects

#### BUS CONNECTS

TRANSFORMING CITY BUS SERVICES

- All our cities and towns low density layout means the bus system will form the backbone of the city's and town's public transport system
- Tackling each city region's congestion issues means focussing on the bus system
- BusConnects is a plan to fundamentally transform our cities and towns bus system





#### BUS CONNECTS

TRANSFORMING BUS SERVICES

National Development Plan 2018-2027

Bus Connects
 Rail





### BusConnects: What is it?



TRANSFORMING CITY BUS SERVICES







TRANSFORMING CITY BUS SERVICES

# BusConnects Dublin Bus Services



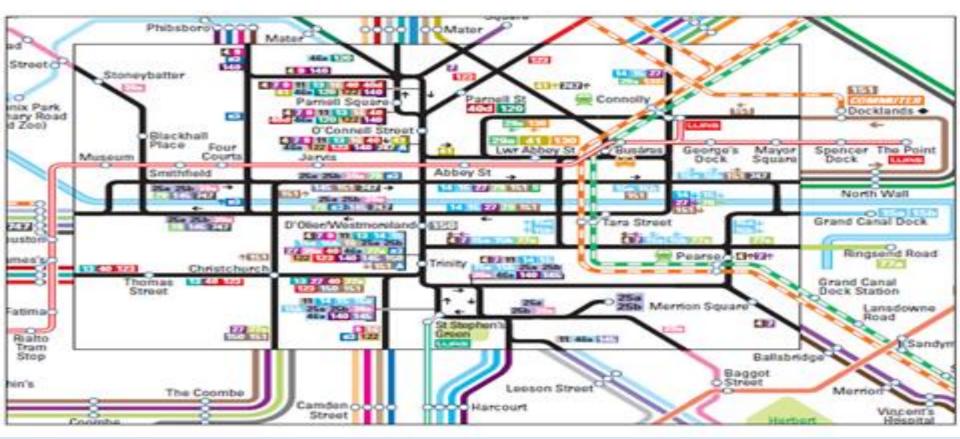
TRANSFORMING CITY BUS SERVICES

- Current network:
  - is very complex and hard to understand
  - can be significantly optimised
  - provides too many direct routes into the city centre

 new and improved rail/tram requires changes to exploit their full potential

#### Existing city centre bus routes too complex





How will this be achieved?



TRANSFORMING CITY BUS SERVICES

• Provide new and frequent orbital services

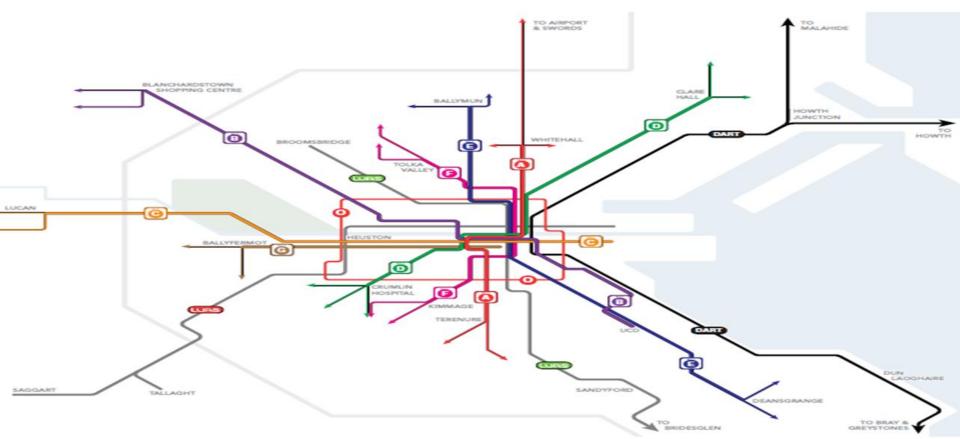
• Simplify radial routes into simpler spines

• Provide more frequent all-day services

• Simplify fares structure across all Bus, all Luas and DART:

#### **Outcome – much simpler services**





#### **Existing suburban network too infrequent**





#### Outcomes: new network has higher frequencies **BUS CONNECTS**



#### **Key Outcomes**



Outcome	Results
Increase in bus services across the Greater Dublin Area	+27%
Residents living within 400m of a bus service operating every 10 minutes or better	From 480,000 to 650,000 +35%
Jobs/college places within 400m of a bus service operating every 10 minutes or better	From 540,000 to 640,000 +18%
Residents living within 400m of a bus service every 15 minutes or better	From 765,000 to 1 million +31%

#### BUS CONNECTS



TRANSFORMING CITY BUS SERVICES

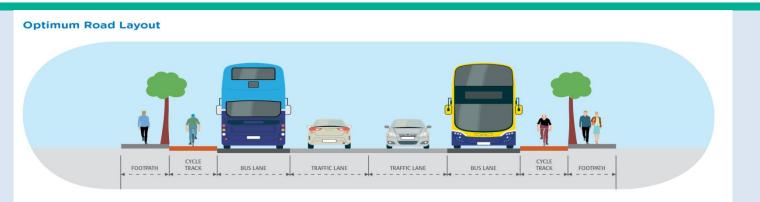
## Core Bus Corridors (Bus Lanes)



## **Target Road Layout**



TRANSFORMING CITY BUS SERVICES



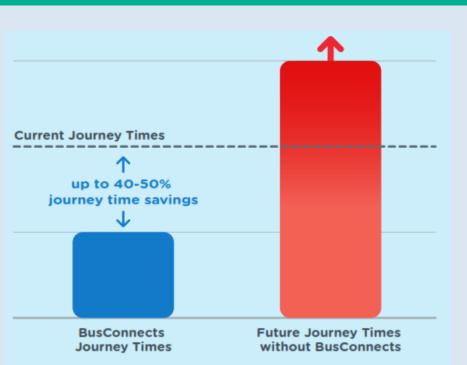
However, Dublin's roads and streets make it challenging to deliver this layout.

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

## The Benefits it will bring: For bus users

- Time Savings: Bus journey time savings of up to 40-50%
- Reliability: Reliable and punctual bus services
- Capacity: Increased capacity to carry a 50% uplift on current 140 million passengers per year.





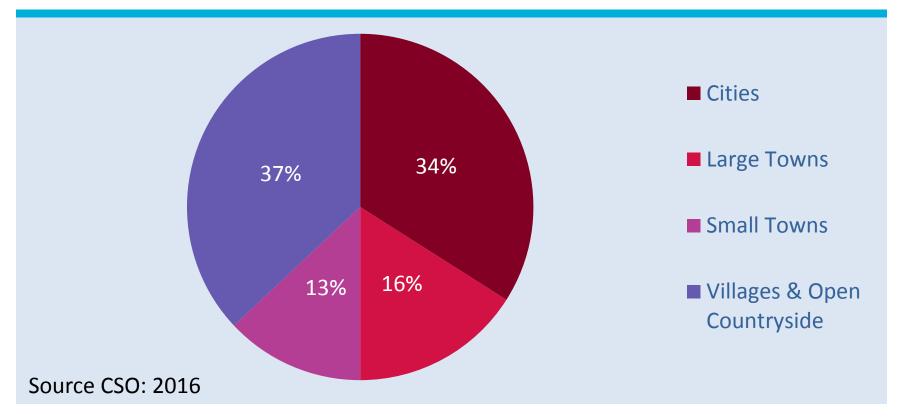


## **Outside Dublin**



#### **Distribution of Ireland's Population**





## Public Transport Planning



- Continual public transport planning work undertaken by NTA
- Focus in recent years on the services in large towns
- Analysis of unmet demand for internal transport in large towns using travel demand data from POWSCAR 2011 (CSO)
- Looked at settlements graded from 1000+, 5000+, 20000+
- Identified gaps both spatial and temporal

## Public Transport Planning



- Original listing of 19 towns greater than 10k population....
- Population, numbers of jobs and numbers of education are factors that influence the demand for transport.
- Of the 19 towns, only **11** have a regular public bus service serving internal demand
- Proposed high level interventions to close gaps

## Setting appropriate service levels



- Set out to define what level of public transport service should be
- Design for service levels that would ensure survival without owning a car



#### Setting service levels





- Operates <u>every weekday (</u>m-f)
- More than one departure and return a day
- Maximum of one interchange

#### **A Local Centre**

One way Journey Time: **45 mins / 30 mins** Min time to spend in a Local Centre: **2 hours** 

#### A County Town

One way Journey Time: **90 mins / 60 mins** Min time to spend in a County Town: **3 hours** 

### A Regional Centre/City

One way Journey Time: **3 hours / 2 hours** Min time to spend in a City: **4 hours** 

## Example - County Leitrim

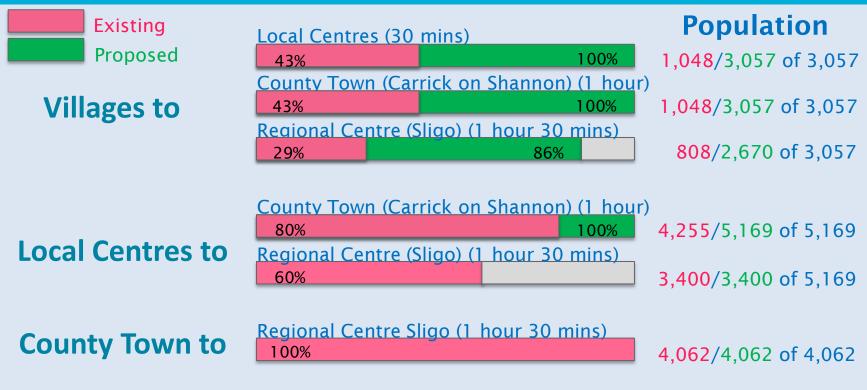


- Pop: 32,044, smallest in Ireland
- 10% of population live in urban areas with a population of 1,500+ (State avg 63%)
- 90% population live in small villages/ribbon development/one off housing
- 1 County Town (Carrick-On-Shannon), 5 local centres and 7 villages identified



#### Leitrim Audit: % of Settlement types that meet the Service Standard after Revision





• 39% of the Leitrim population live in CSO defined settlements (12,288 of 32,044)

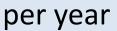


# θ 8 a a a local link

The new name for Rural Transport



- Budget of €16.5m
- 80% Demand Responsive services
- Managed by 17 local offices (down from 35)
- Up to 2 million passenger journeys









- Developed a central booking service with a Driver app and an online booking facility
- Developed a brand & website Locallink.ie
- Many Locallink offices in local authority premises





- Huge latent demand for services
- Over 60 new services commenced in last 3 years
- New evening services introduced unkindly branded "Drinklink"







- For very low demand in isolated areas we propose grant-aiding both:
  - Local Hackney services
  - Voluntary Community Car Schemes







What's been the outcome of ten years of transport planning?



## Subsidised Passenger Journeys

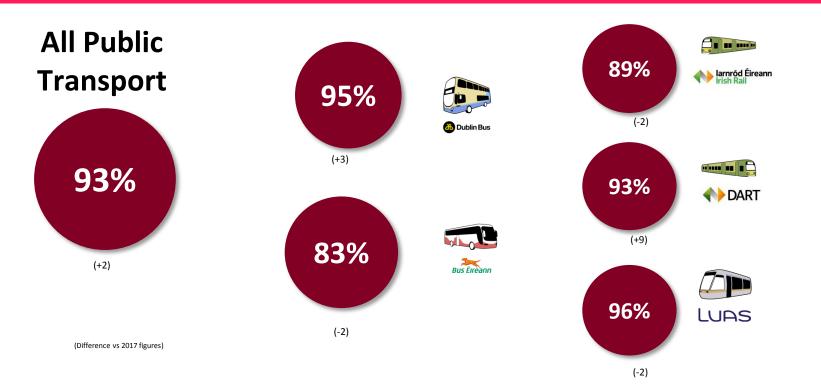


#### **Passenger Journeys each year (millions)**

Year	Total	% increase year on year
2014	216.37	3.8%
2015	224.31	3.7%
2016	234.32	4.5%
2017	250.54	6.9%
2018	266.23	6.3%
2014 to 2018	49.86	23%

## **Customer Satisfaction**





Key Learnings from NTA perspective



- Having statutory powers
- Making a statutory plan
- Using strong evidence and data based modelling
- Having ability to handle revenue risk of new services
- Designing multi-modal projects
- Involving the public in planning at earliest stage
- Being agile in delivery