

# Transport Reform

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Group One

# Network Problems - Dublin

54%

Dublin Bus Punctuality<sup>[1]</sup>

84%

Luas Punctuality<sup>[2]</sup>

77%

DART Punctuality<sup>[3]</sup>

Dublin

A light gray silhouette map of the Dublin region is positioned on the right side of the slide. The word "Dublin" is written in a large, white, sans-serif font across the center of the map.

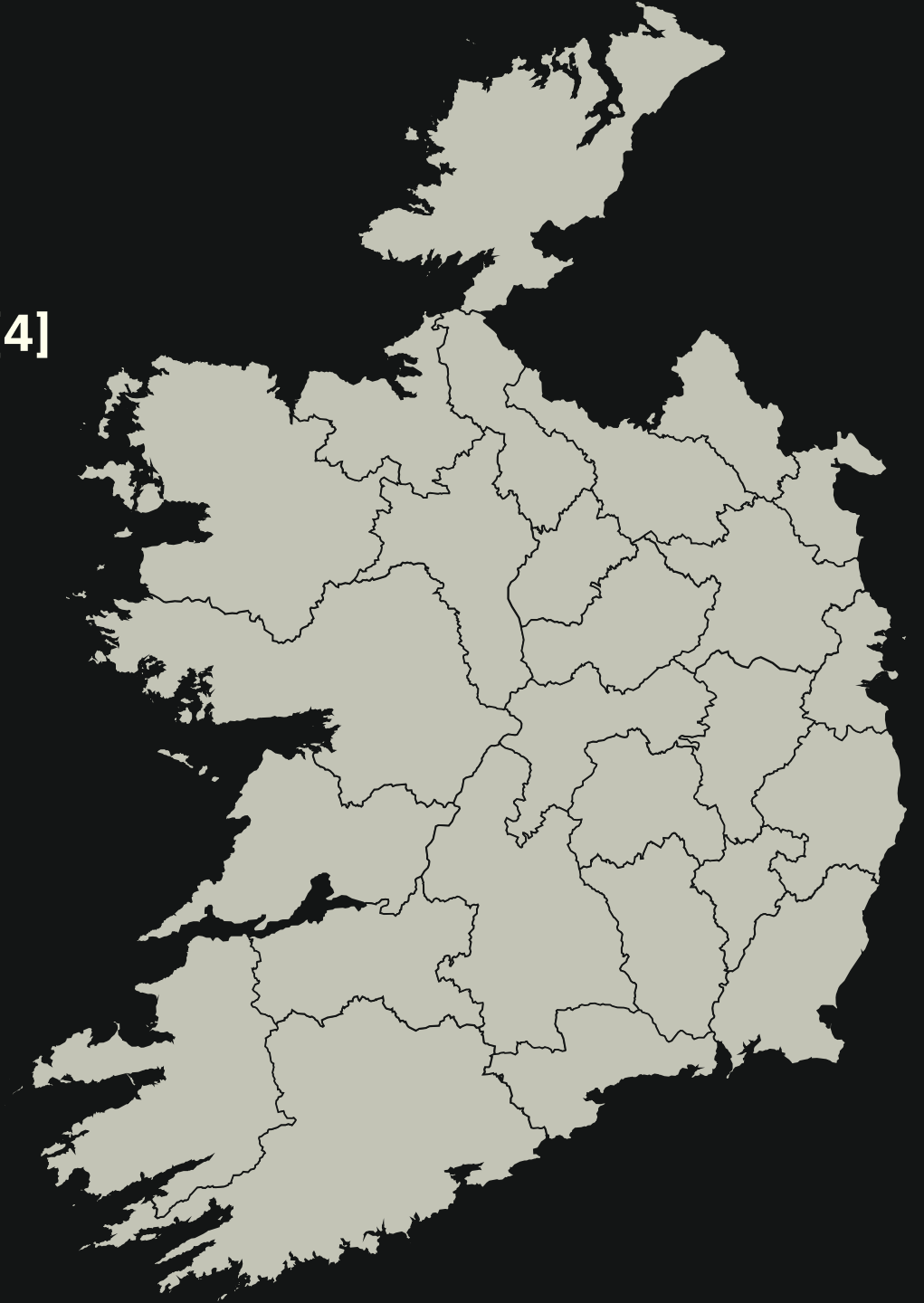
# Network Problems - Ireland

49%

Bus Éireann Punctuality<sup>[4]</sup>

88%

Irish Rail Punctuality<sup>[5]</sup>



Irish Public Transport is an **ISSUE**



# Irish Public Transport is an **ISSUE**

## SDG 11 – Sustainability

- Private Transport a high pollutant
  - 24 MILLION Tonnes of CO<sub>2</sub> released in 2019<sup>[6]</sup>
- 141,931 new cars licensed in 2016<sup>[7]</sup>
- 15.4% of people believe public transport is inconvenient<sup>[8]</sup>



# **Case Studies**

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Other European Solutions

# Amsterdam

- On-board ticket validation
- Train tickets on Digital Wallets
- Dedicated entry-exit doors for Trams & Busses

## What we will take

- Train tickets on Digital Wallets
- Dedicated entry-exit doors for Trams & Busses

# London

- All tickets loaded onto Oyster Card
- Oyster Card on Digital Wallets

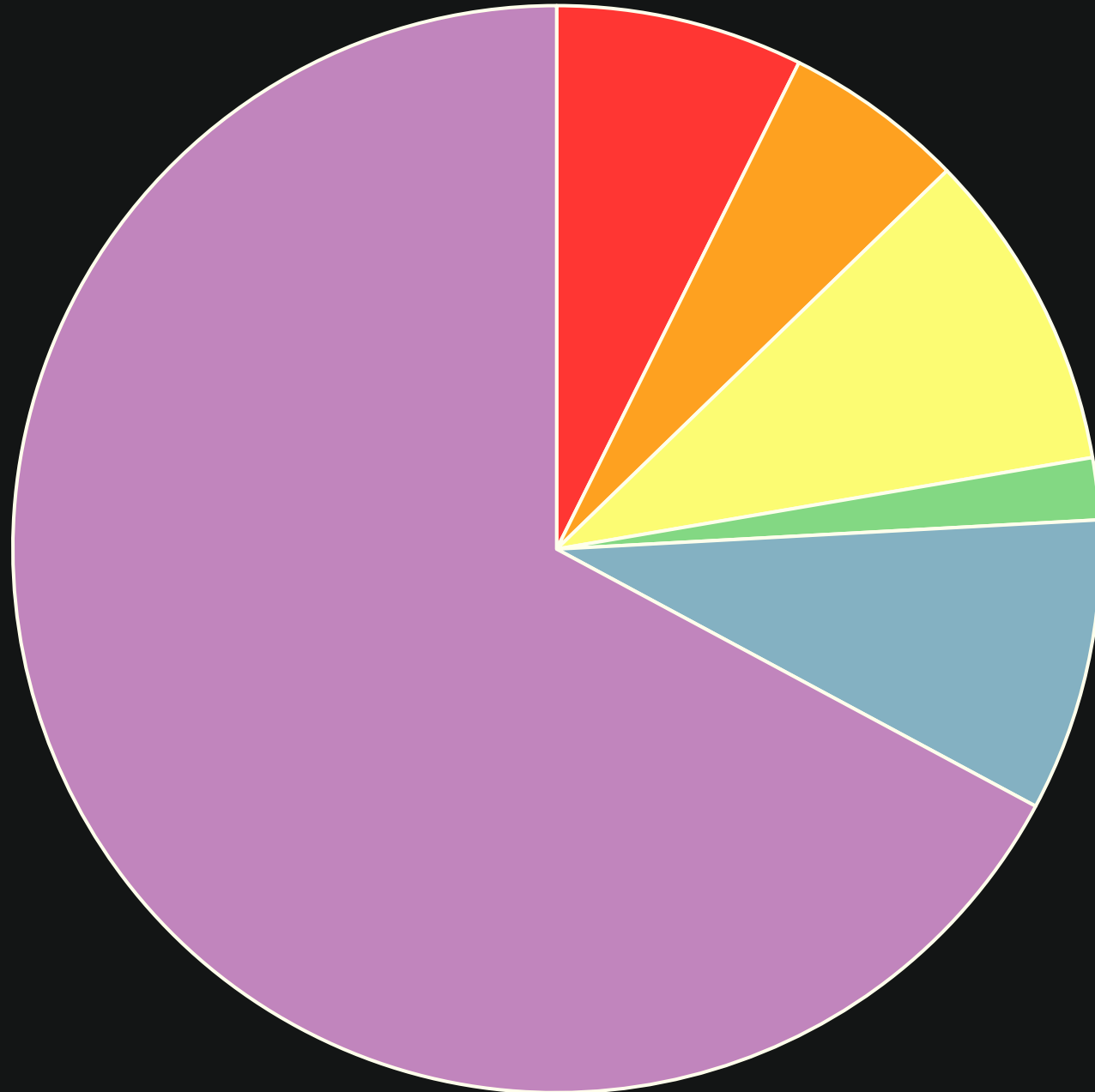
## What we will take

- Loading tickets onto transport card
- Transport card on Digital Wallet



# Our Solution

# Factors Which Encourage Greater Use of Public Transport



**More Reliable Timetables**

**Better Access to Services**

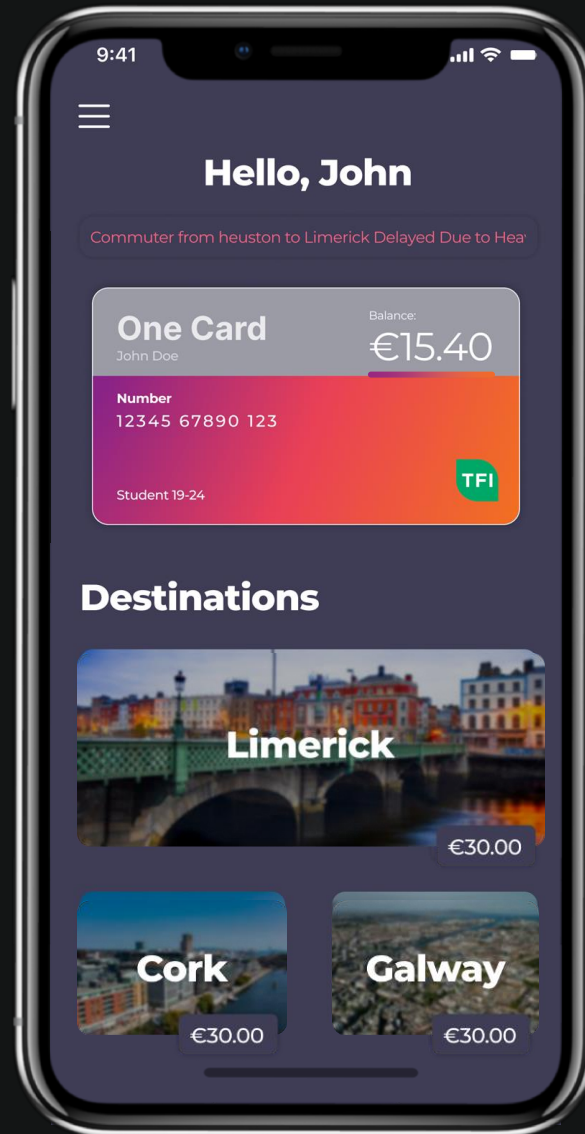
**Ease of Use of Services**

**Disability Access Improvements**

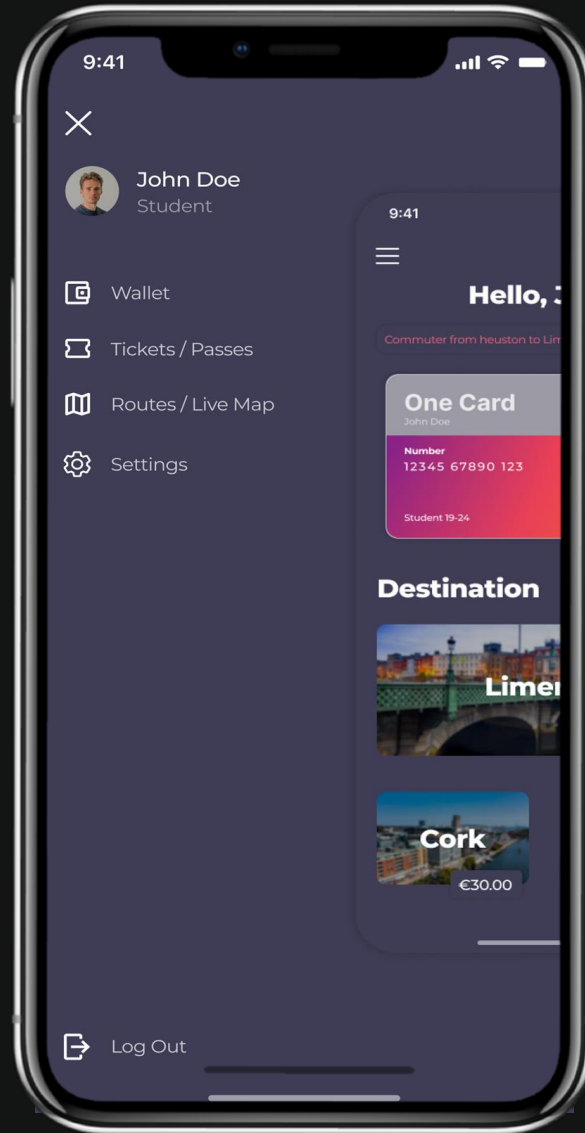
**Better Value**

**Other (See Later)**

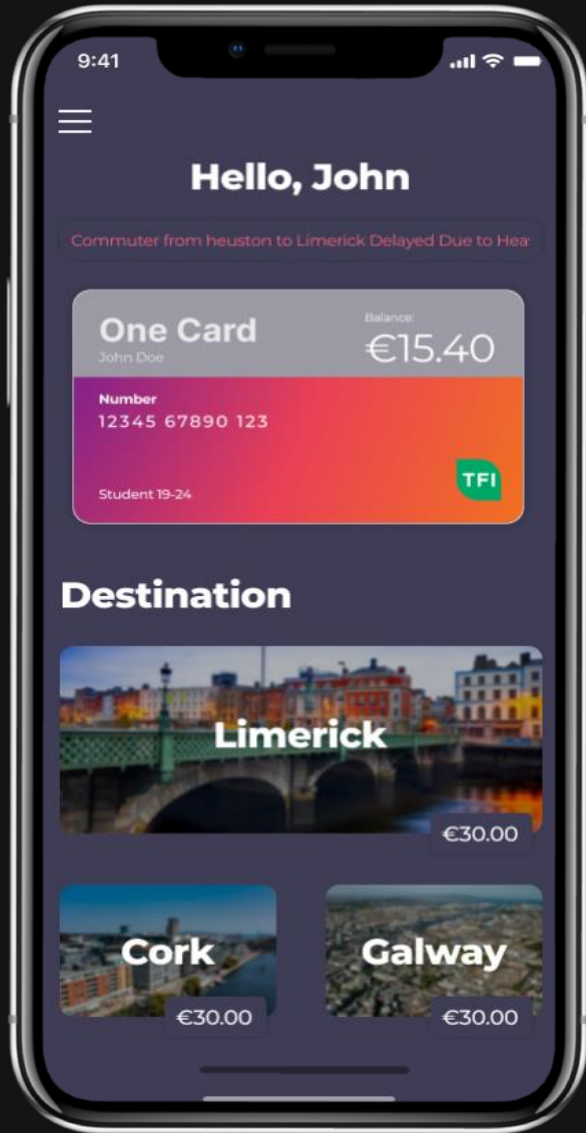
# Pt. 1 – One-Way



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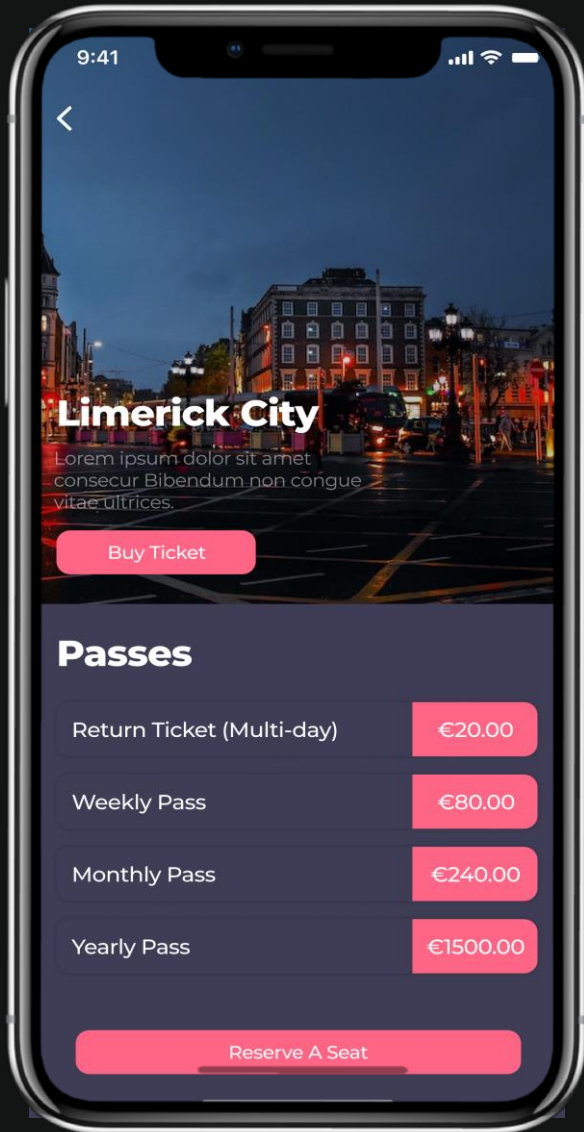


# Pt. 1 – One-Way



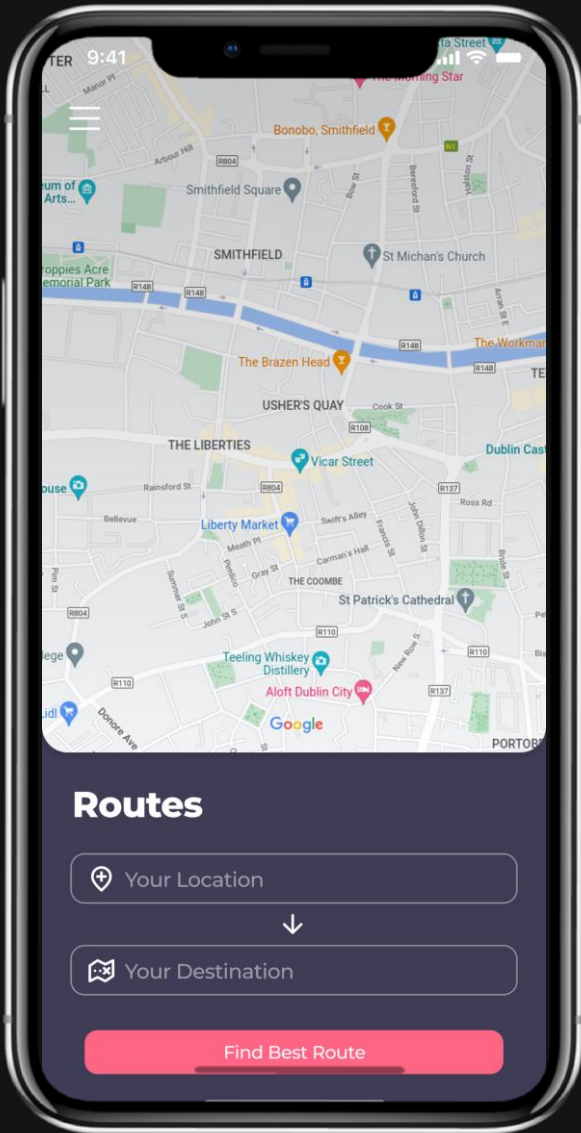
- Tailored live network updates
- Live One Card Balance
- Tailored destination selection

# Pt. 1 – One-Way



- Purchase as QR or put into One Card
- Only shows available passes for card type
- Displays remaining time on current passes

# Pt. 1 – One-Way



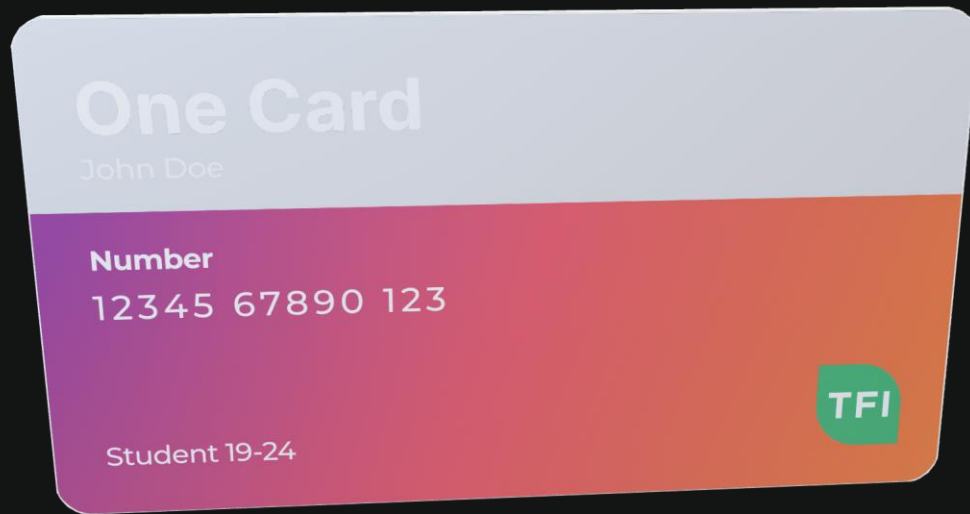
- Seat bookings included
- Complete travel journey calculated
- Discounts for purchasing in advance

# Pt. 2 – One Card





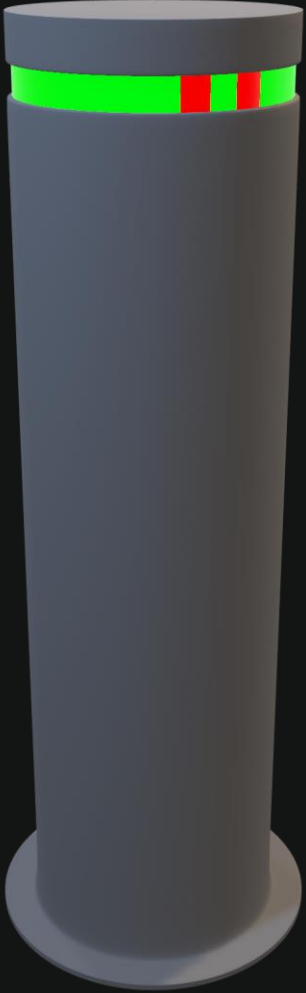
# Pt. 2 – One Card



## FEATURES:

- Can be ordered through app or in transport hubs
- No-tap top-ups
- Modern NFC capabilities
- Can be loaded into Digital Wallets
- One-tap loading of tickets onto the card
- **FREE** digital card
- €3 purchase for a physical card
- ID Photo shown when scanned by inspector

# Pt. 3 – One Card Validator



## FEATURES:

- Shape allows up to 10 simultaneous validations
- Sleek and modern design
- Simple UX, Traffic Light colour scheme
- Reduces average time spent validating
- Simple operation makes it accessible

**End Users**

# Our Target Market

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- Broadly, the Irish Populus
- Focus on frequent-travellers:
  - Digital cards
  - Transport tickets on card
  - Unified transport app
  - Simplified boarding de-boarding process
- Tourists:
  - Current system confuses tourists, loss of revenue
  - Simplifies & cheapens public transport cost
  - Provides an aid for transport planning
  - “Where You Should Go” section

# **Ethical Concerns**

# **Ethics and Concerns**

## **Facilitating those without permanent home addresses:**

- Card can be kept digital-only (free)
- Purchase of a physical card in transport hubs

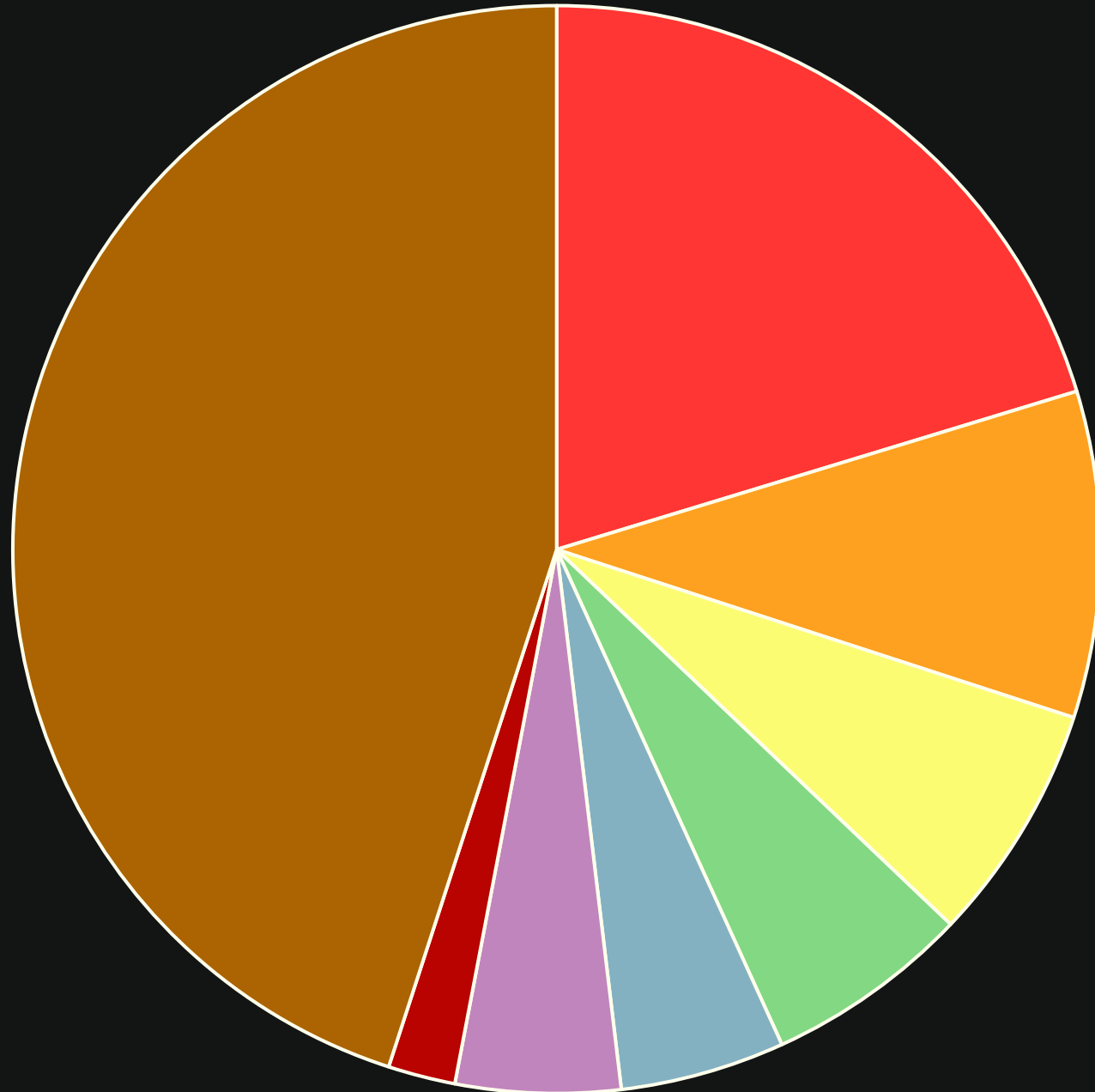
## **Facilitating those without internet or a mobile:**

- Top-Up available in any store with current Leap Card top-up machine (Backwards compatible)
- Top-Up at all transport hubs

# **Future Expansions**

# Further Encouraging Public Transport Work

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**No Alternative**

**More Direct Routes**

**Better Value**

**More Reliable Times**

**Closer Stops to Destinations**

**Shorter Journey Times**

**Environment Improvement**

**Reasons Discussed Earlier**



# Irish Rail Network, 2022.



# Our Proposed Changes

Leinster Expansion One

Cork Expansion

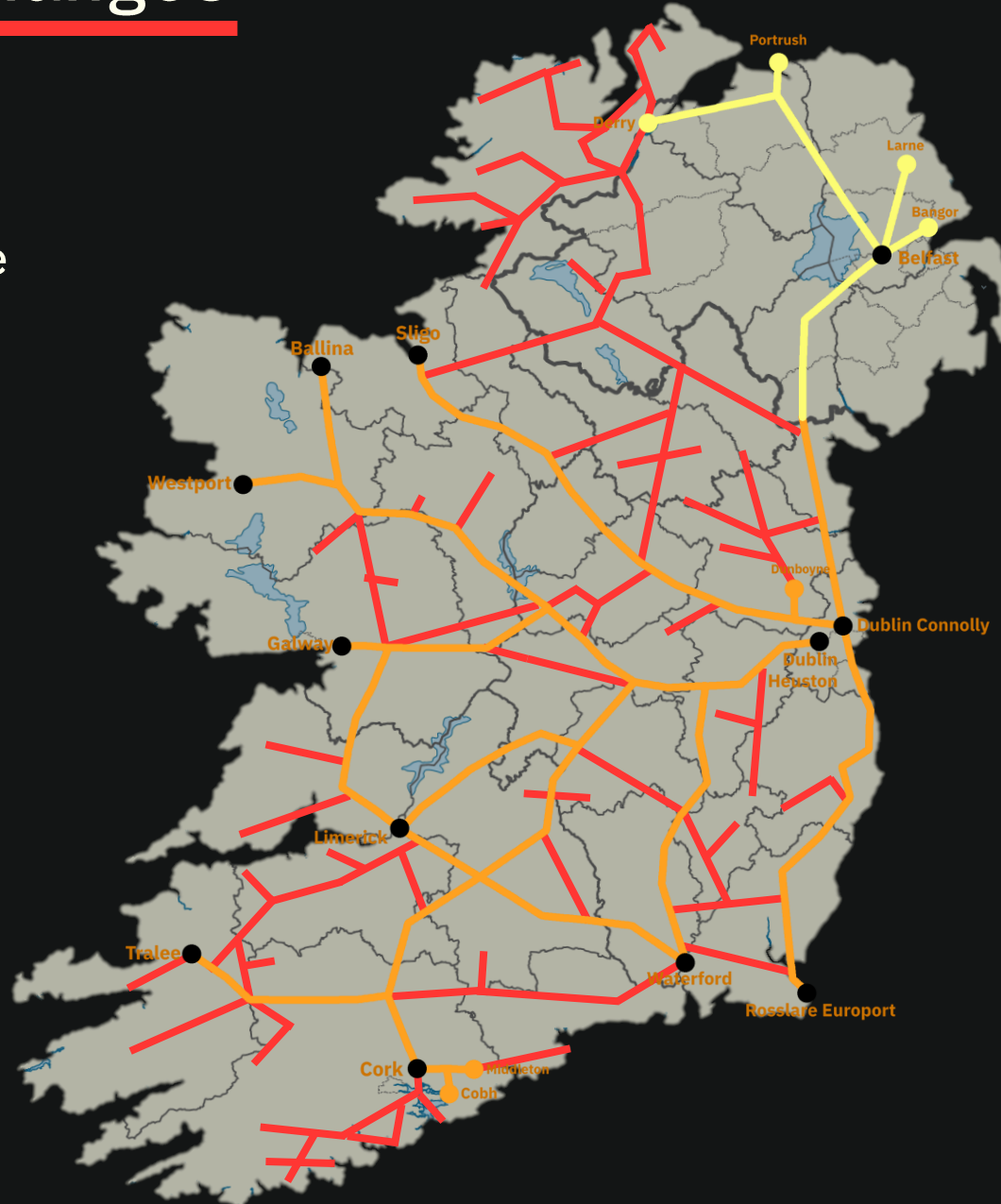
Munster Expansion

Midlands Booster

Connacht Expansion

NI Interconnect

Donegal Foundations

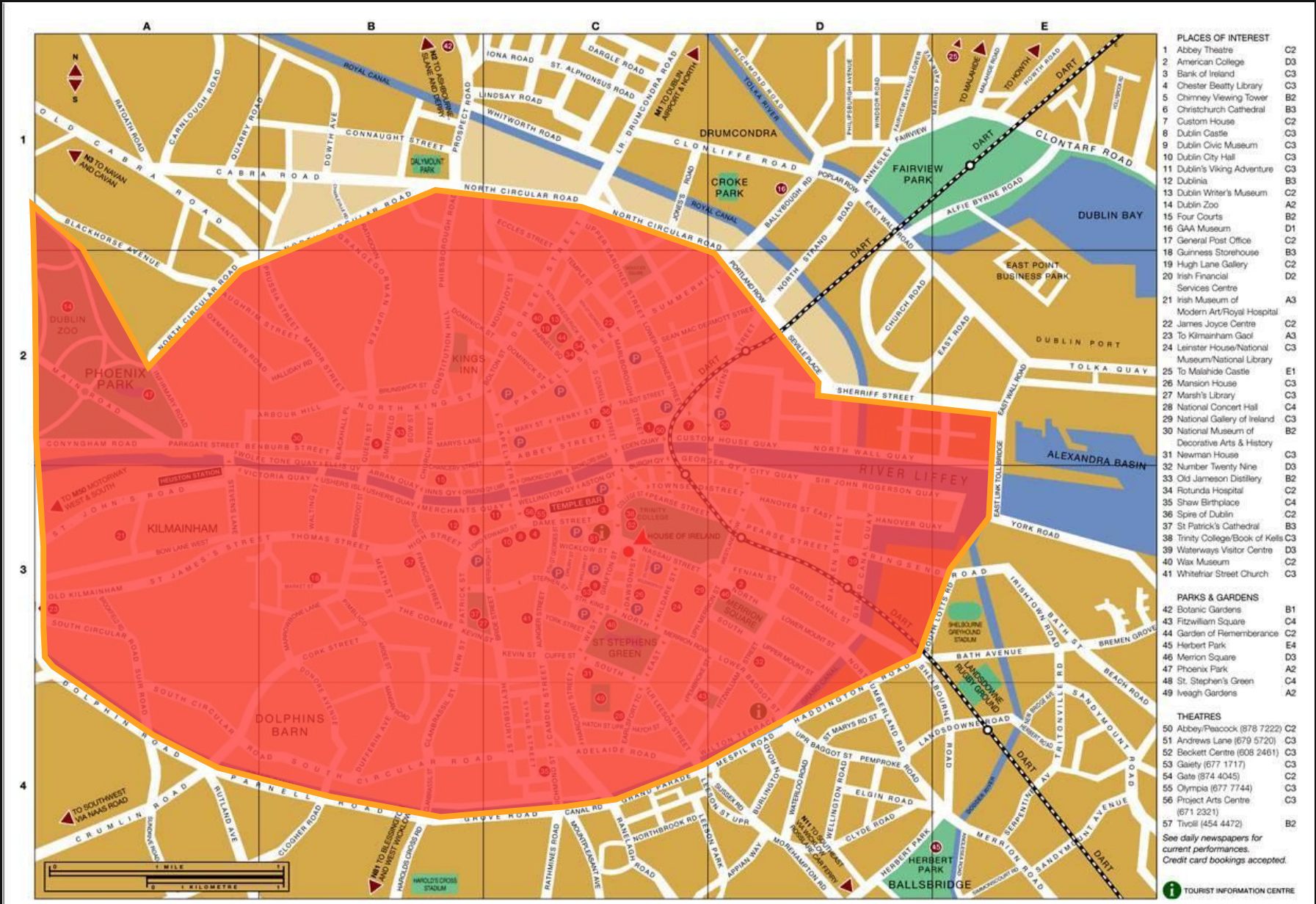


# New Bus Éireann Coverage





# Removal of Private Transport in City Centres



## Other Changes

- Inc. Connolly Services by 50%
- Electrification of expanded IÉ Network
- Expanding DART services to S.E. Dublin
- Sync all timetables for simple transfers
- Rollout of Hydrogen Busses
- Cheaper trans-county transport

# Conclusion

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- We believe that implementing our proposal would incentivise Public Transport
- We believe our proposal will heavily improve sustainability
- We believe our proposal will help the differently abled

## Sources

For mentioned sources, a bibliography, Team Charter and the Slide Deck, visit the following website:

<https://rjm.ie/oneway>

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