



REFLECTIONS ON PARTICIPATION OF **24 HOUR UNIVERSAL DESIGN CHALLENGE**

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👤 Full-Time Student, BSc. Construction Management.
Final Year DT117



👤 Part-Time Student, BTech. Construction Technology.
DT133 & DT134



👤 Took Part in the Challenge as part of research for Thesis
/ Use as Case Study



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WHAT IS UNIVERSAL DESIGN?



Universal Design

Broad-Spectrum of ideas meant to produce buildings, products and environments that are accessible to everyone (People of all ages, with and without disabilities)



WHAT IS THE 24 HOUR UNIVERSAL DESIGN CHALLENGE?

- 👤 The 24 Hour Universal Design Challenge was organized by TrinityHaus, the Centre for Excellence in Universal Design and the NDA.
- 👤 Main organisers; Dr A Fennell (TCD), J Hubbard, N Murphy (NDA/CEUD) and Professor Ruth Marrow (Queens University).
- 👤 There were five teams with a variety of design disciplines.
- 👤 Each team were given a map, ours was showing Abbey Street between Liffey street and Capel Street.
- 👤 We first walked, photographed, observed and got inspiration on how un accessible to everyone it is.



THE PROJECT BRIEF

- ✎ Each team was assigned a different route through the city
- ✎ Teams had a design sponsor each - a member of the public with a disability, to identify obstacles and problems
- ✎ Teams had their own conference room for the 24 hours to come up with an idea, design it and present to a team of judges and the public
- ✎ Teams worked throughout the night to come up with a solution based on their experiences to fulfill the principles of universal design



TEAM A – DESIGN SPONSOR



👋 This is our Team Design Sponsor, Genny

👋 Genny is a self described Venetian Blind



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OBSERVING ACCESSIBILITY OF ROUTE



👤 We walked Abbey Street with Genny along the Luas Line.

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OBSERVING ACCESSIBILITY OF ROUTE



👤 Obstacles were everywhere!



👤 Even common objects were serious hazards



OBSERVING ACCESSIBILITY OF ROUTE



👤 Even well intentioned Interfaces failed



OBSERVING ACCESSIBILITY OF ROUTE



👉 Genny showed us how to walk with a blind cane.

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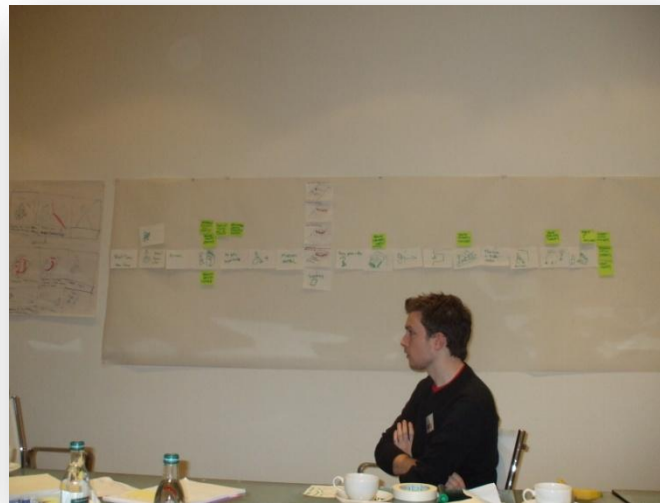


COMING UP WITH THE IDEA



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PUTTING TOGETHER VIDEO AND PRESENTATION



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IDEA CONCEPT "MYWAY"



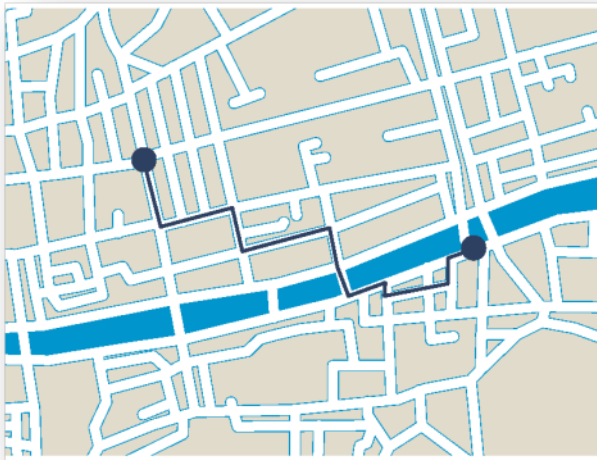
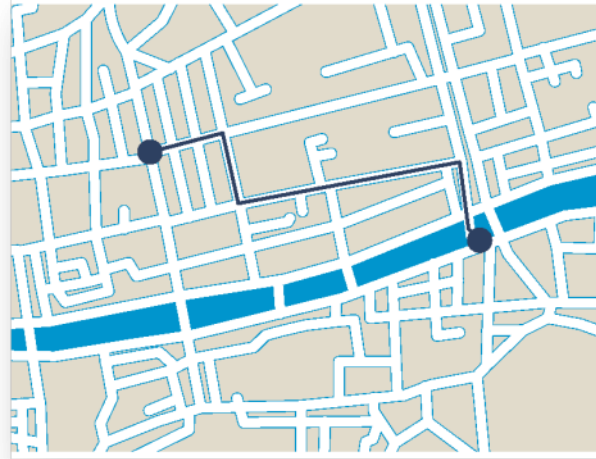
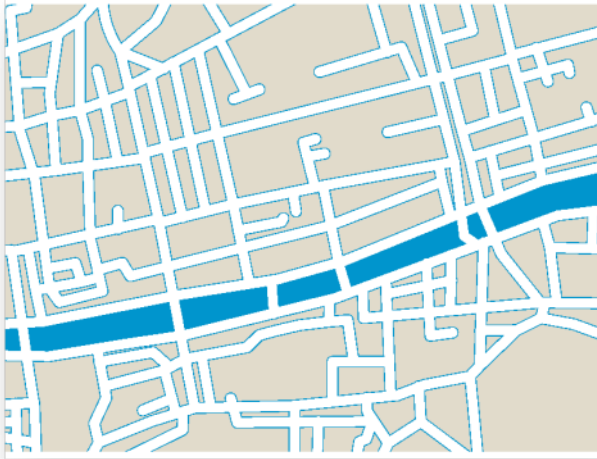
 MYWAY

Finds the path most travelled



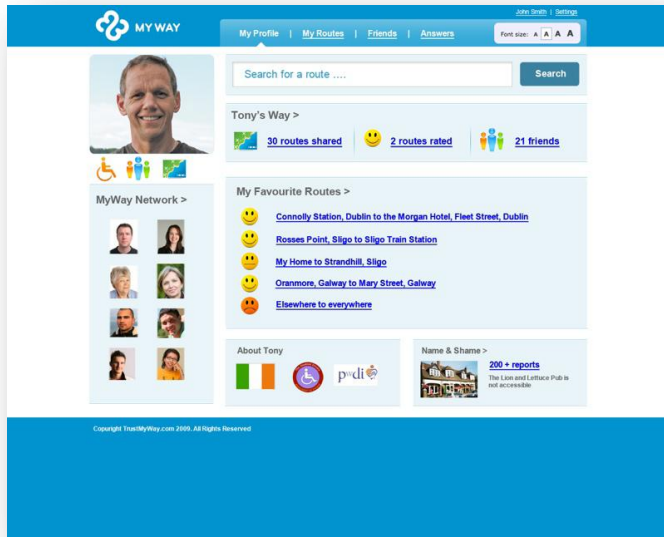
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IDEA CONCEPT "MYWAY"



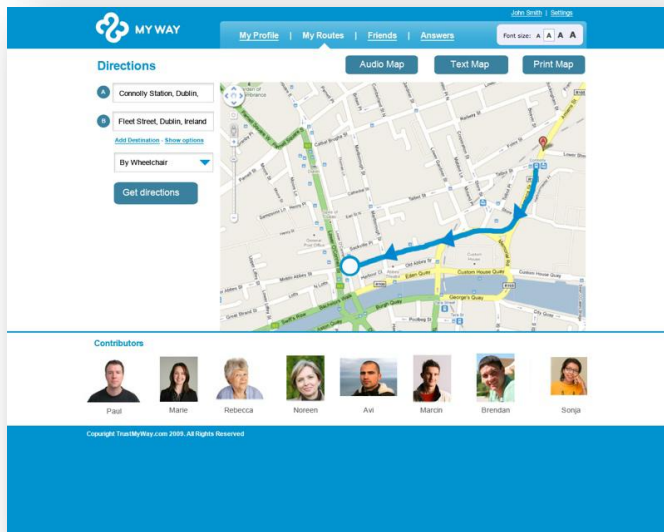
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IDEA CONCEPT "MYWAY"



 MY WAY

is also a Social Network
where members can log
their routes and share with
other members



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WHO CAN USE THE SERVICE?

MYWAY supports everyone

- 👤 Blindness/Poor Visibility
- 👤 Buggy users/Young Children
- 👤 Cyclists
- 👤 Deaf/Hard of Hearing
- 👤 Elderly
- 👤 Tourism
- 👤 Wheelchair users
- 👤 Also just for fun for users to log distances and routes they walked



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MY WAY VIDEO



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MY WAY VIDEO

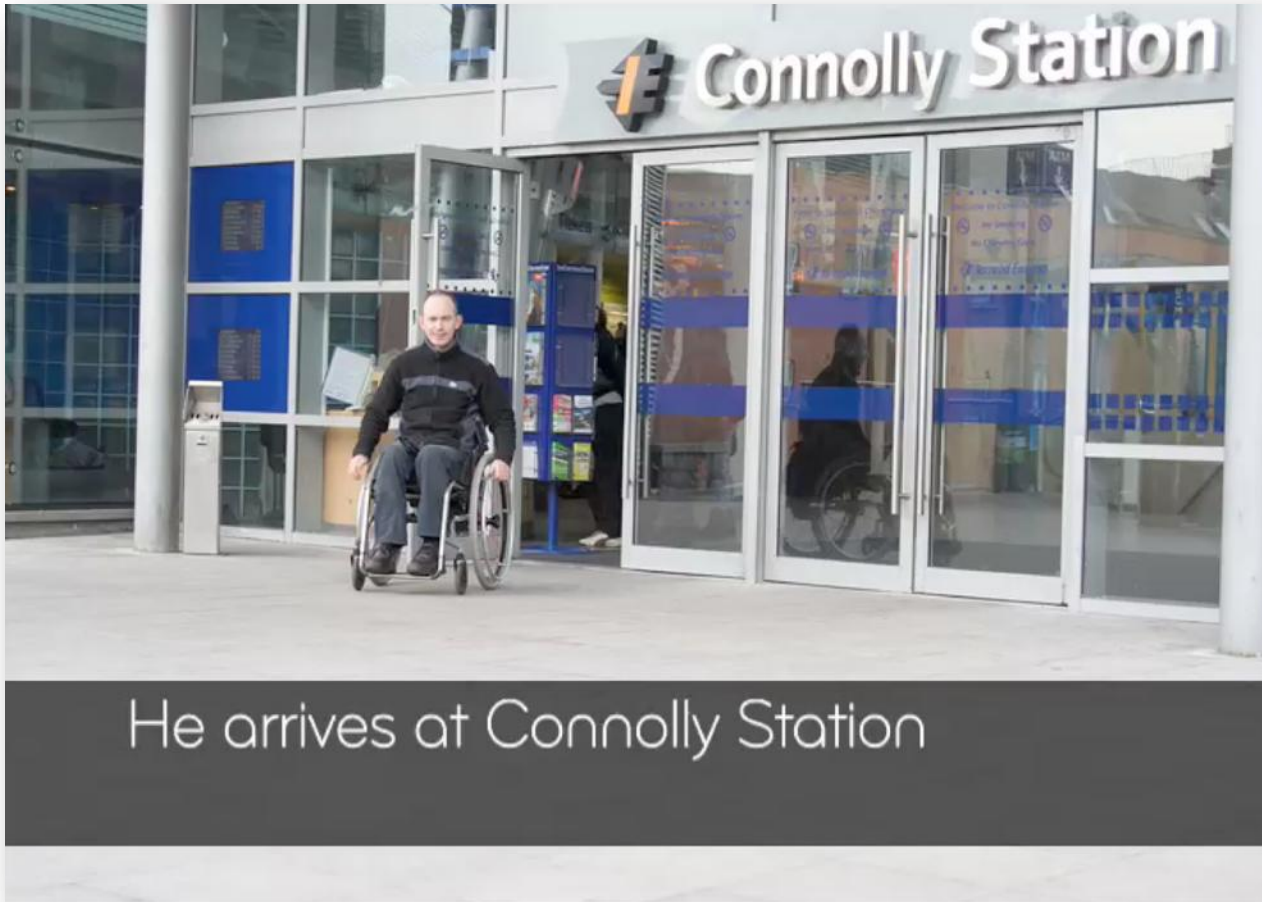


Tony's an engineer from Sligo...and he's also in a wheelchair. He's going to a conference in Dublin and is unfamiliar with the City.



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MY WAY VIDEO

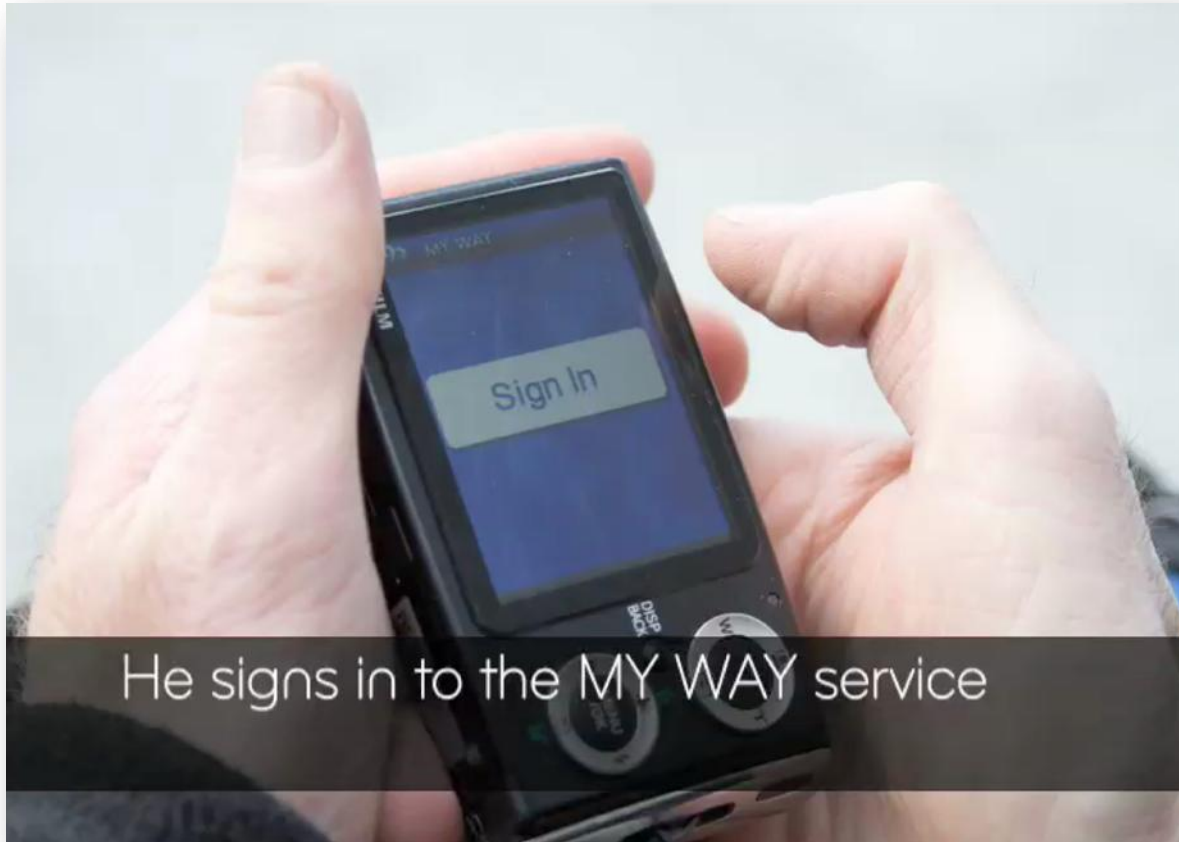


He arrives at Connolly Station



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MY WAY VIDEO

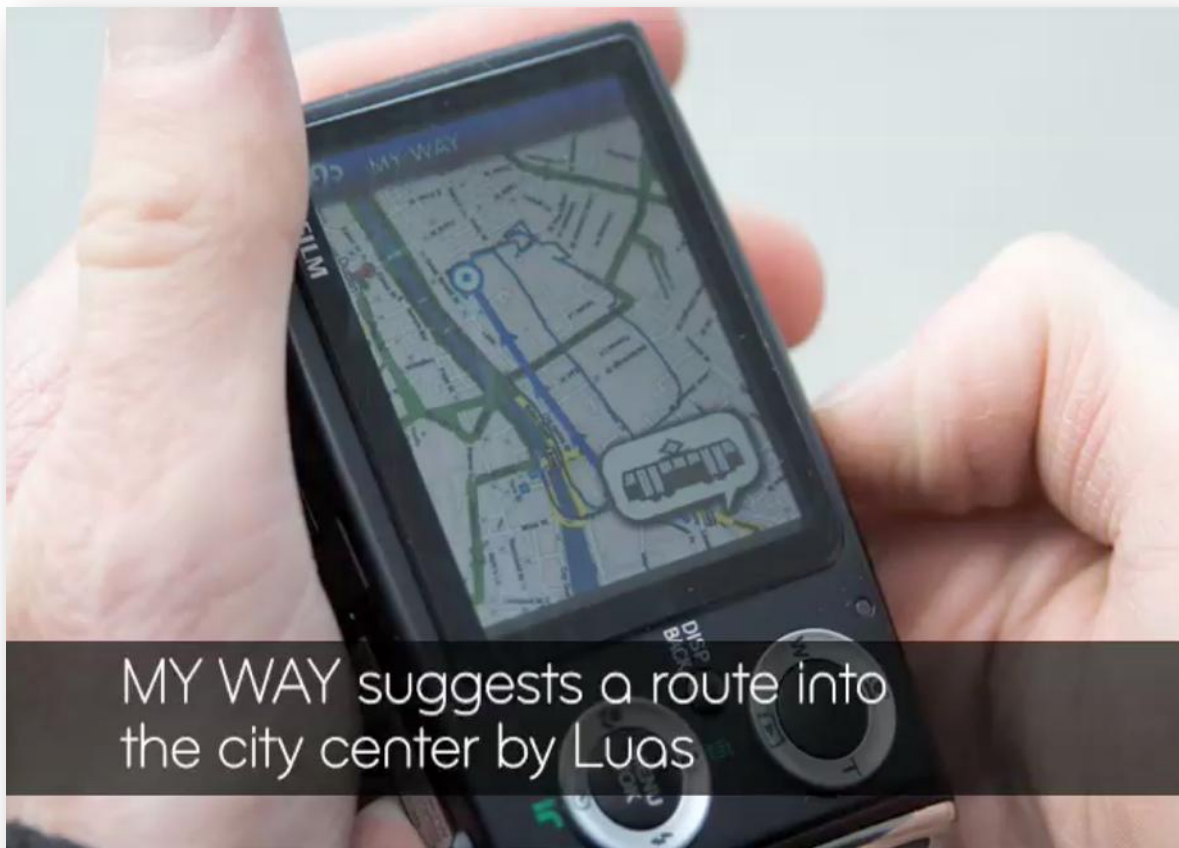


He signs in to the MY WAY service



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MY WAY VIDEO



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MY WAY VIDEO



He can choose various methods to get directions



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He takes the Luas to Abbey St.



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MY WAY VIDEO



On arrival, Tony rates the luas as a good choice



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He is confused as MY WAY suggests the Millennium Bridge



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In Temple Bar, he struggles on the cobble stones



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MY WAY VIDEO



He decides to report the obstacle
for other MY WAY members



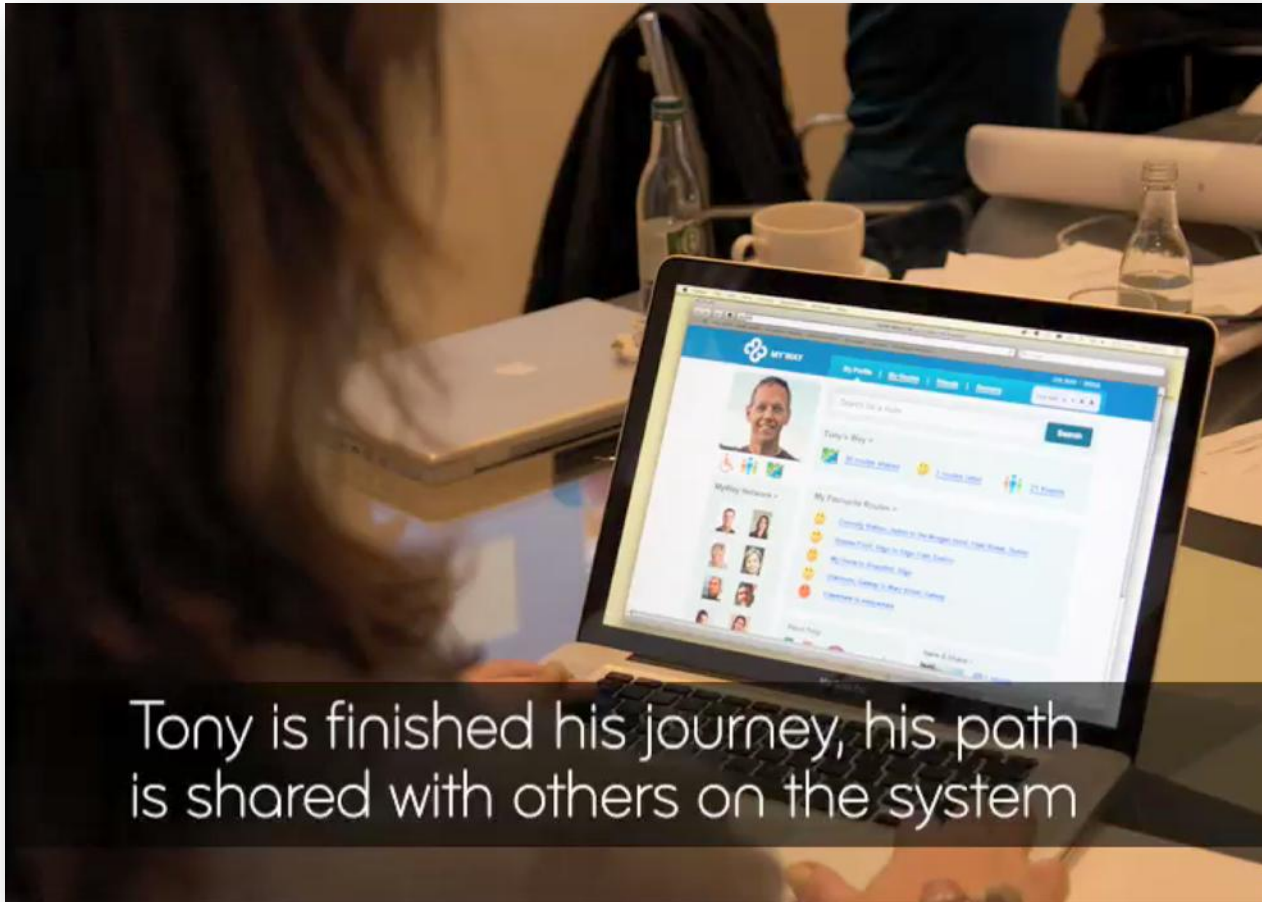
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MY WAY VIDEO



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MY WAY VIDEO

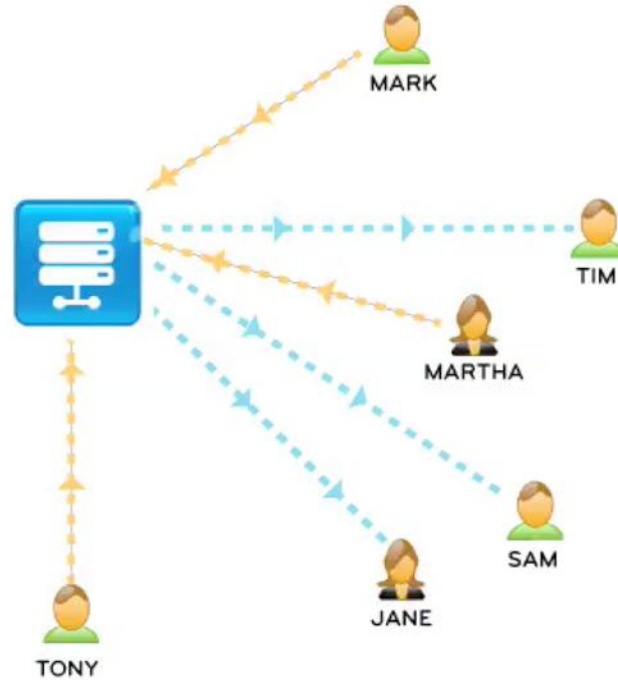


Tony is finished his journey, his path is shared with others on the system



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MY WAY VIDEO



All members journeys are continuously updated



THANK YOU



“Peoples Choice Award Winners”

Team A (MY WAY Team)

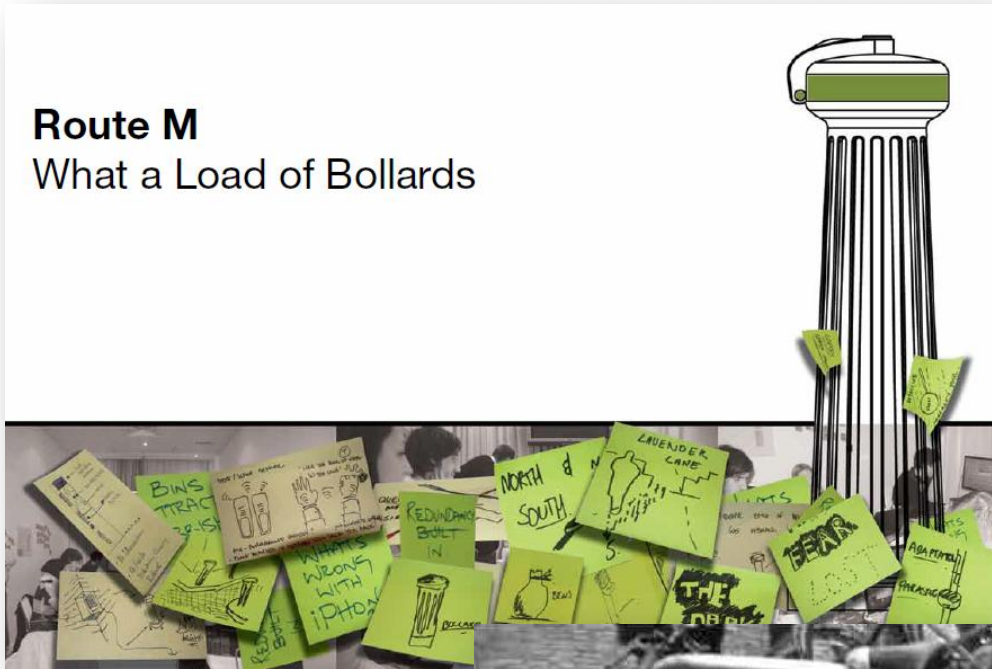
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OTHER PROJECTS

Route M

What a Load of Bollards



👉 Judges Choice
Award Winners

👉 Team Route M

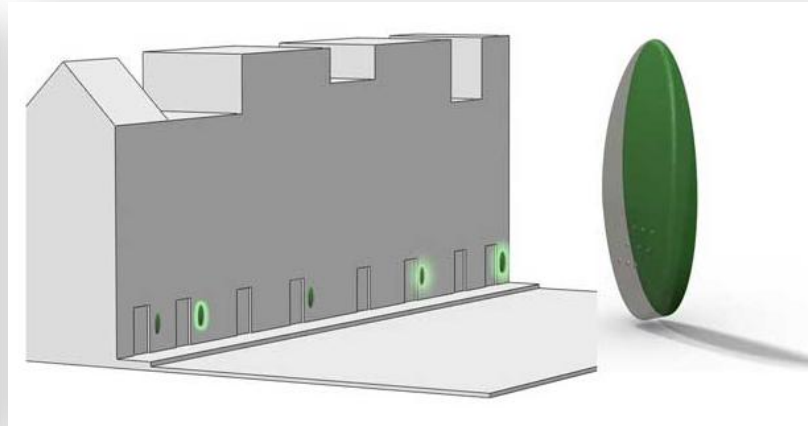


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OTHER PROJECTS



👉 Runners Up – Team G
PLUS ONE – Urban
Mobility Solution for
Dublin Bikes



👉 Green Leaf - Team W
Sharing accessible places
online between design
professionals



👉 Ground Control- Team H
The Illuminated
Floor Button

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FUTURE PROJECTS



 <http://planet.globalservicejam.org/>



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CONCLUSIONS

- 👉 Universal Design effects everyone, not just those with disabilities.
- 👉 Putting myself into the shoes of someone with a disability, helped to understand the avoidable difficulties of getting around through little effort of thought in design.
- 👉 Dublin City's not as accessible to everyone as I thought, unless an individual's familiar with the area due to many unnecessary obstacles.
- 👉 It takes little thought and effort to incorporate and consider Universal Design into building.





QUESTIONS?

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