

Velo City 2019

### Cycling as a Catalyst for Sustainable Living

Session 4D:

The Planning System, Private Developments and Cycling



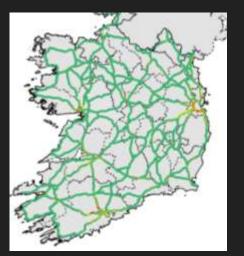


"If you plan for cars and traffic, you get cars and traffic. If you plan for people and places, you get people and places"

William H White, The social life of small urban spaces (1980)

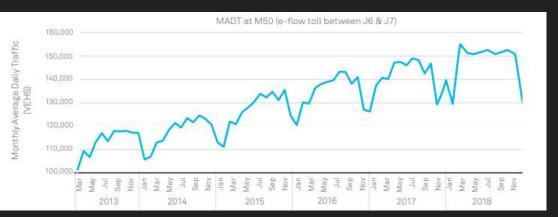


#### **Irish Context**



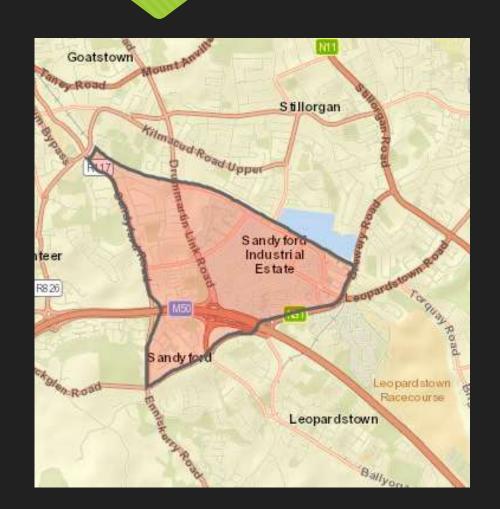












On foot	1,060	19%
Bicycle	247	<mark>4%</mark>
Bus, minibus or coach	301	5%
Train, DART or LUAS	1,393	25%
Motorcycle or scooter	25	0%
Car driver	1,616	29%
Car passenger	522	<b>9</b> %
Van	95	2%
Other (incl. lorry)	8	0%
Work mainly at or from		
home	101	2%
Not stated	146	3%

### A New Approach

- More sustainable living
- Goodbye to old Stereotypes
- Cycling for All!

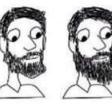




### Stereotypes



#### BIKE KNOWLEDGE TO BEARD RATIO



RIDES







RIDES AND HAS BUILT A BIKE FROM OLD PARTS



PROBABLY A WIZARD ...NO NEED FOR BIKES





**MAMIL** 











#### **External to Developments**

through on the delivery of committed sustainable transportation projects. In the absence of the this delivery, commitments made by developers cannot be realised, no matter how great the will or the need.

#### Internal to Developments

- O Smaller developments must curtail car parking and provide convenient, prominent bicycle parking, as well as good walking and cycling links to public transportation.
- Larger developments must focus on walking and cycling as dominant modes for all regular transportation needs.

#### How?

The Dutch Approach

**Public sector** commits to deliver (and actually delivers!) infrastructural improvements:

- Trunk public transport infrastructure
- Dedicated cycling infrastructure
- Segregation, including short-cuts (e.g. cycling-only bridges / tunnels contra-flow cycling on one-way streets)
- Convenient, safe public bike parking

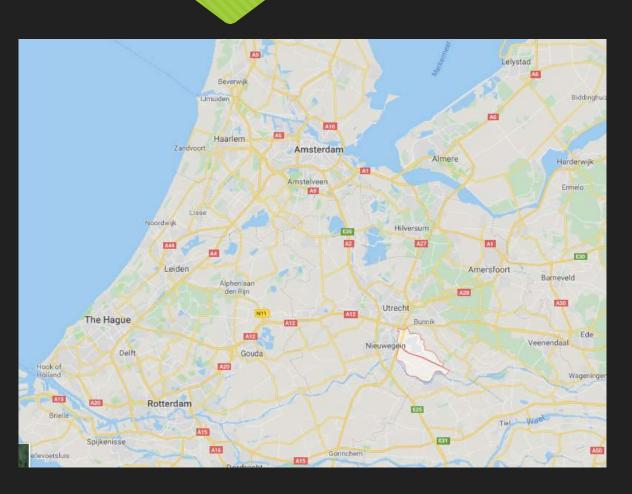
**Private sector** designs around the bicycle:

- O Bicycle parking
- O Bicycle paths
- Showers, storage, etc.

**Public sector** provides education and training so cyclists of all ages and abilities can travel safely

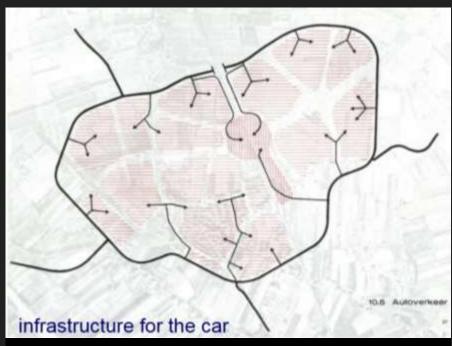






#### "The Dutch Cycling City"

- Suburb / satellite town of Utrecht (14km)
- Designed Town 1970s
- Buildings address green walking and cycling routes, rather than roads for cars;
- Cars and servicing are managed on a separate access network to the rear of properties;
- Interfaces between green routes and roads are either grade separated or favour the green route.
- Fully accessible for cars and service vehicles but **no through roads.**

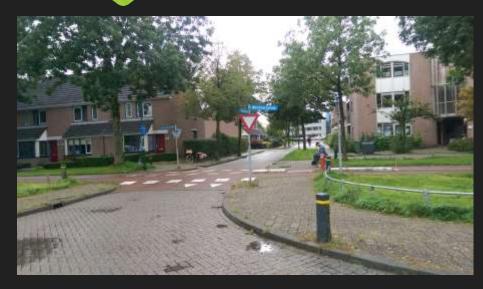


Images courtesy of Mr. André Botermans, Cycling Ambassador, Utrecht



Houten Bicycle Infrastructure





















#### Modal split in % (2011-2012)



	<7.5 km	7.5-15 km	>15 km	In general
Motor vehicles	21.3	64.6	66.8	41.3
Public transport	03.9	15.1	29.7	13.7
Cyclists	43.1	16.4	01.7	26.3
Pedestrians	30.5	0.00	0.00	17.2
Others	01.2	04.0	01.8	01.5

Courtesy of Mr. Ronald Tamse, Utrecht City Council



#### Typical Modal Split Ireland

Residential Areas in Sandyford Business District if Houten Cycling % Achieved

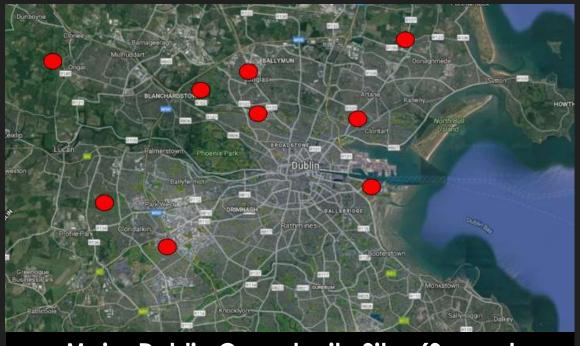


On foot	14.2%	781	<b>-279</b>
Bicycle	26.3%	1450	+1203
Bus, minibus or coach	4.0%	222	-79
Train, DART or LUAS	18.6%	1027	-366
Motorcycle or scooter	0.3%	18	-7
Car driver	21.6%	1191	-425
Car passenger	7.0%	385	-137
Van	1.3%	70	-25
Other (incl. lorry)	0.1%	6	- <b>2</b>
Work mainly at or from			
home	1.3%	74	<b>-27</b>
Not stated	2.0%	108	-38



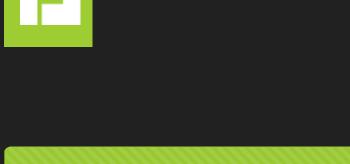


All of these sites have capacity for major residential developments, but severely constrained car accessibility



Major Dublin Opportunity Sites (Several thousand residential units each)





# Community Considerations in New Developments

#### Bicycle centric movement patterns:

- No car parking at houses but high quality convenient secure parking for multiple bicycles;
- Car share facilities for necessary external car travel;
- O Centralised, manged long-term car storage and car hire for longer distance travel;
- Delivery service from shops electric vehicles and/or cargo bikes;
- Severely restricted car access to schools, including for teachers;
- E-scooters and e-bikes for the less physically able

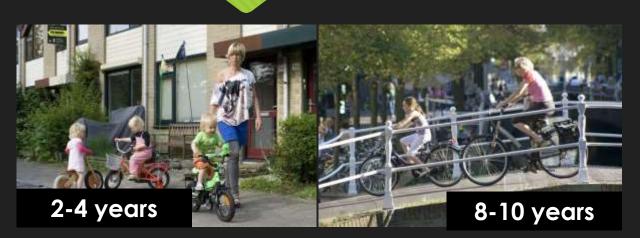
#### Community

- To be viable, it must work for all members of society;
- O Accessible community facilities amenities, post office, places of worship, community centre, nursing home etc, all with bicycle centric movement:

See <u>cyclingwithoutage.org</u> for community initiative in Copenhagen for the young to bring the old out cycling

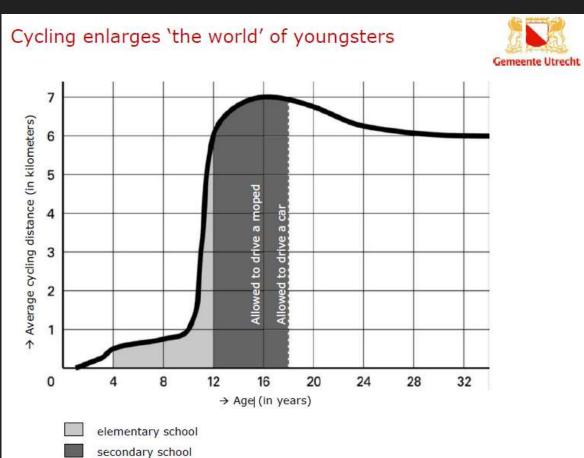


### Cycling for All





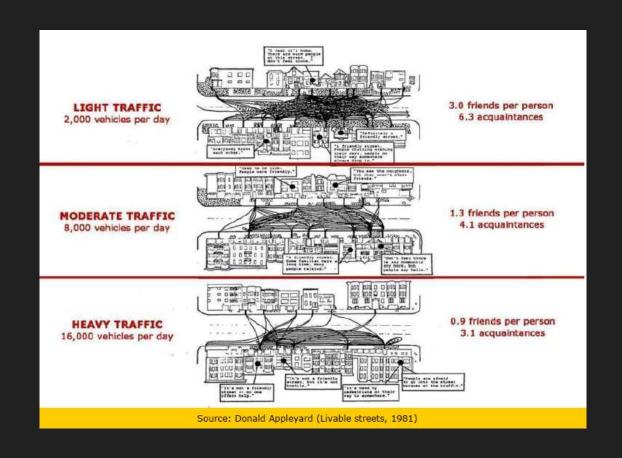




## Cycling as a Catalyst for Sustainable Living



- Increased environmental awareness
- Reduced environmental impact and carbon footprint
- Increased health awareness and longer life
- Increased community spirit
- Better mental health
- Setting good example for the next generation
- Inspires other communities!







### Thank You

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