

Conor O'Driscoll

Two Different Flavours of Mobility



TRAVEL MOBILITY

How people move through space to reach work, school, services, and social life



LOCATIONAL MOBILITY

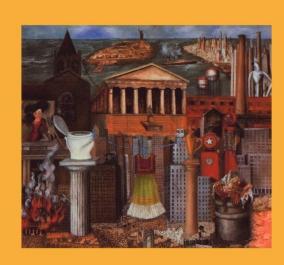
The ability to act on locational preferences in response to needs, opportunities, or constraints





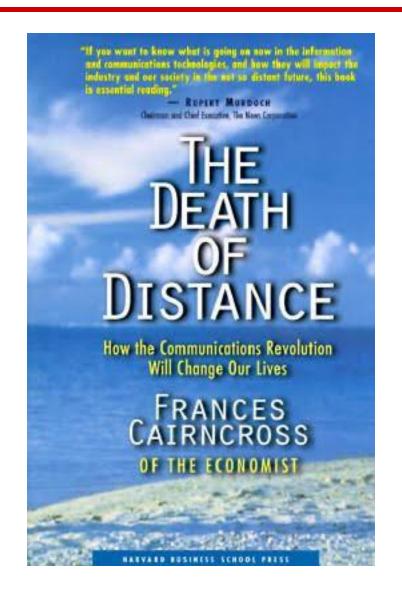


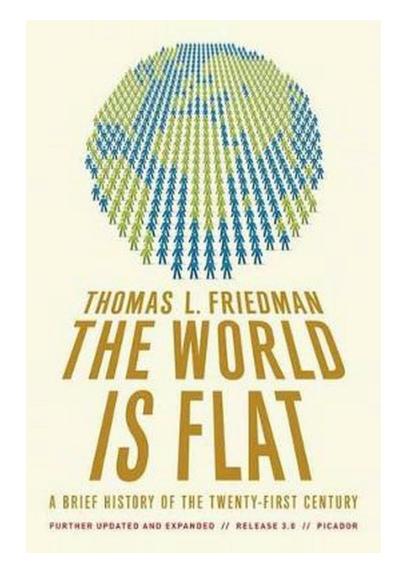




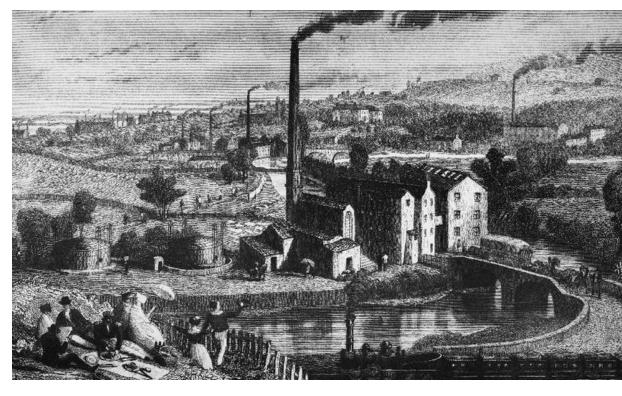
David Harvey





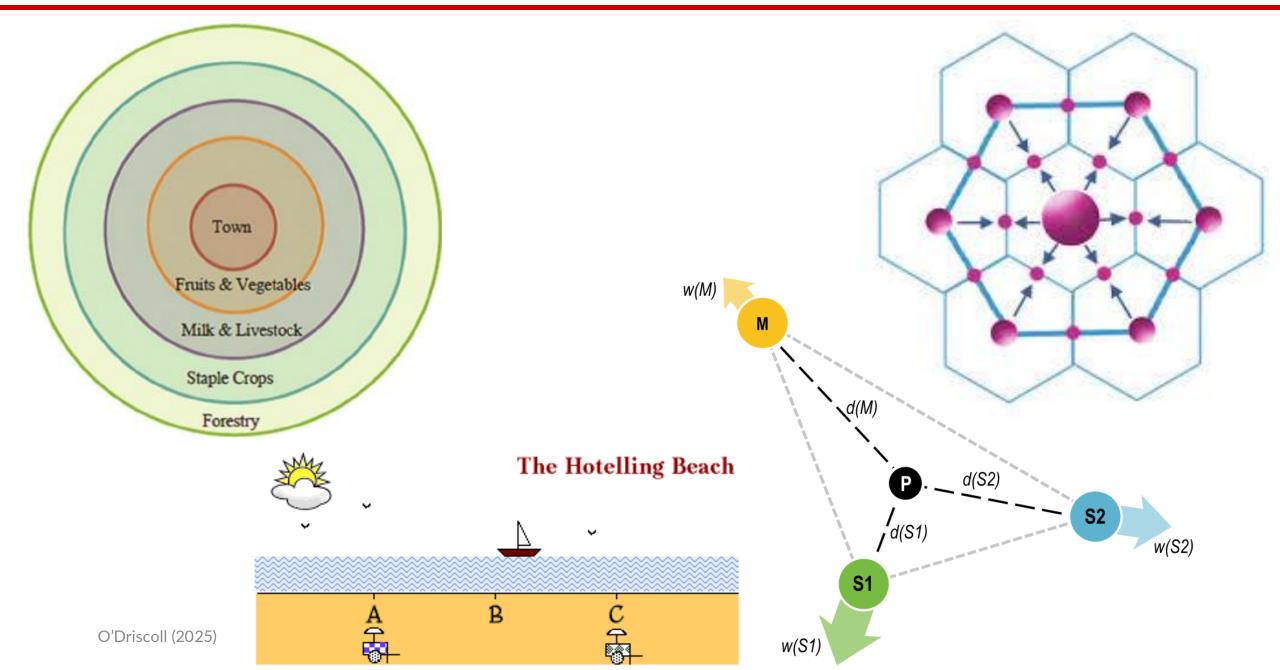


Location and Mobility: A Bird's Eye View

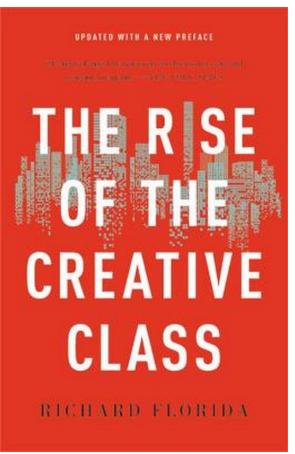


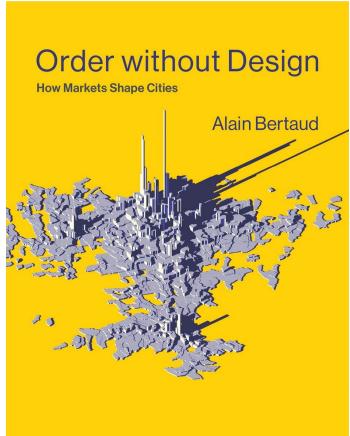


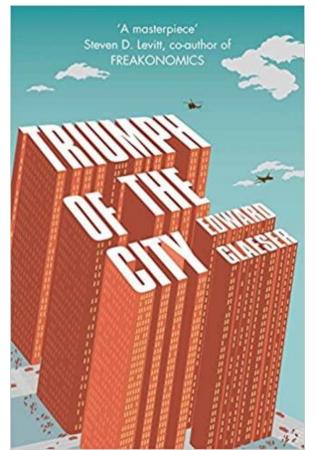


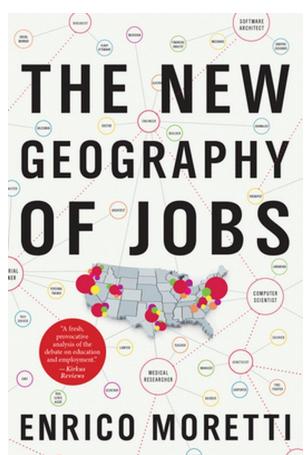


















Residential Mobility and Work-From-Home

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Al and The Spatial Configuration of Labour Markets

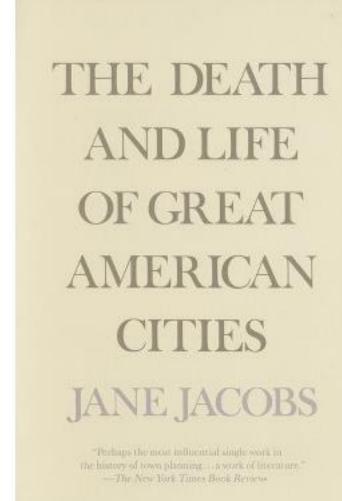
 What are the implications of AI adoption for the spatial configuration of labour markets, such as job sorting, search and matching?

- How does Al adoption reshape the role of location in the organisation of work?
 - Do these mechanisms interact with widespread WFH practices?

 What are the productivity gains of AI adoption for workers and firms, and do these vary across space?

Land Use Patterns and Regional Policy







Rethinking Urban Sprawl

MOVING TOWARDS SUSTAINABLE CITIES



OECD OEC

Urban Sprawl

Thomas J. Nechyba and Randall P. Walsh

Are Compact Cities a Desirable Planning Goal?

Peter Gordon & Harry W. Richardson

To cite this article: Peter Gordon & Harry W. Richardson (1997) Are Compact Cities a Desirable Planning Goal?, Journal of the American Planning Association, 63:1, 95-106, DOI: 10.1080/01944369708975727

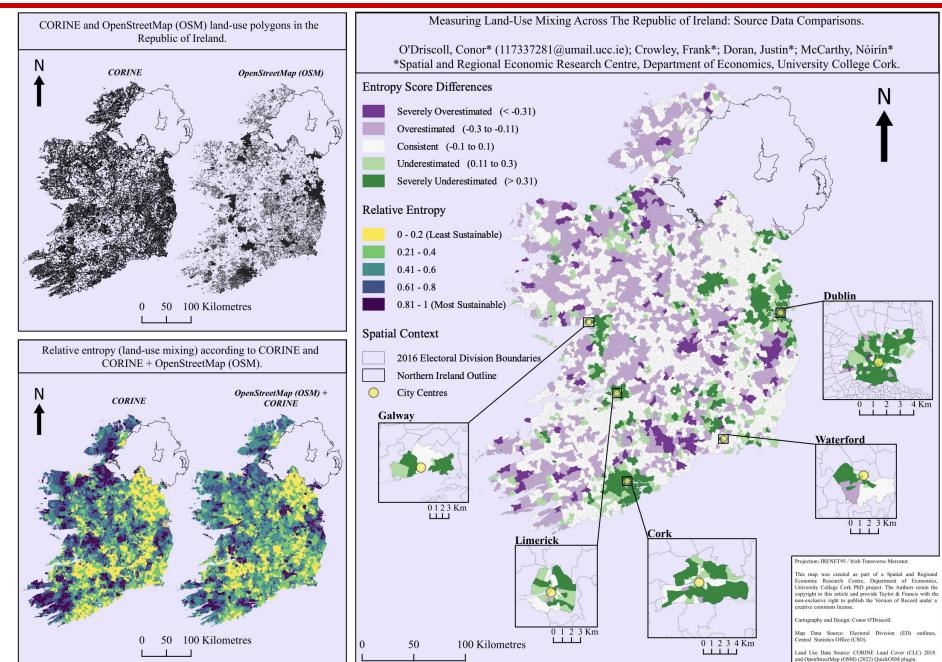
To link to this article: https://doi.org/10.1080/01944369708975727

Journal of Economic Literature Vol. XXXVI (September 1998), pp. 1426–1464

Urban Spatial Structure

ALEX ANAS
RICHARD ARNOTT
and
KENNETH A. SMALL¹







The Bottom Line

• Land-use patterns, coupled with "curious" planning regulations, are worsening the environmental degradation attributable to regional development in Ireland, while also placing a drag on local and regional economies and housing markets.

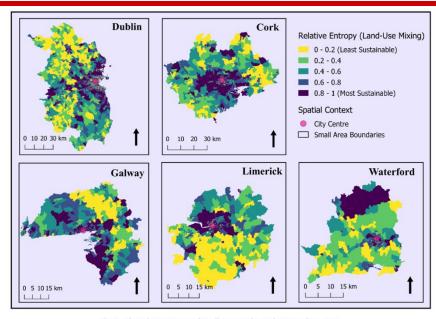


Fig. 1. The Relative Entropy of Small Areas within Irish Metropolitan Areas.

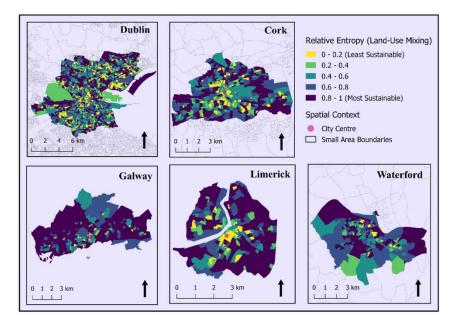
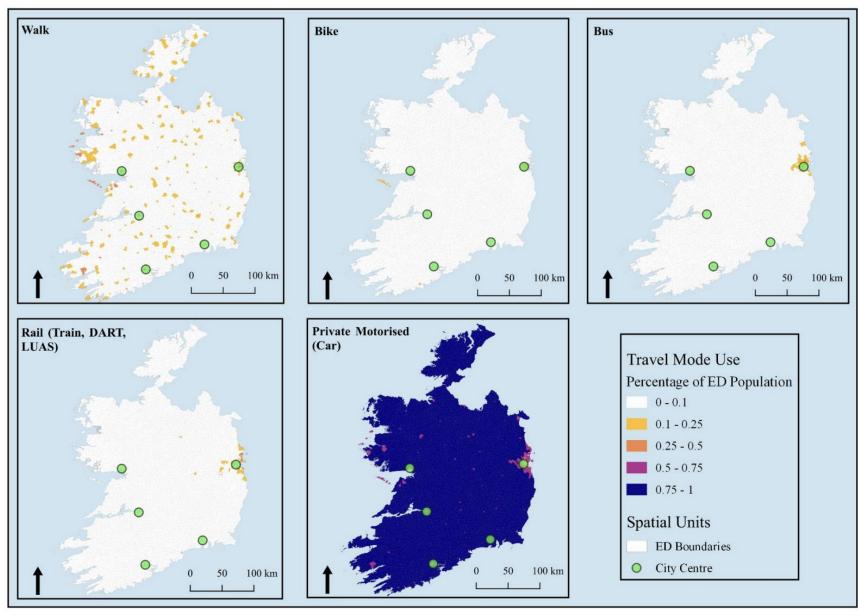


Fig. 2. The Relative Entropy of Small Areas within Irish City Cores.

Travel Behaviours and Regional Policy

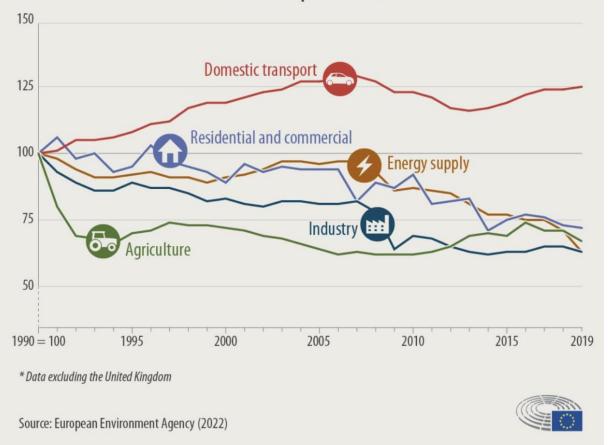






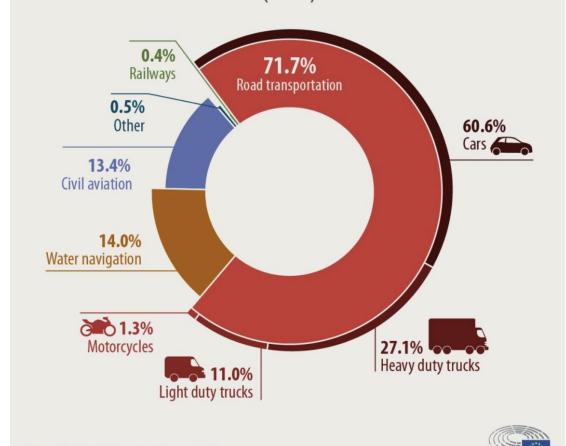
EMISSIONS IN THE EU*

Change in emission levels by sector since 1990 (in CO2 equivalent)

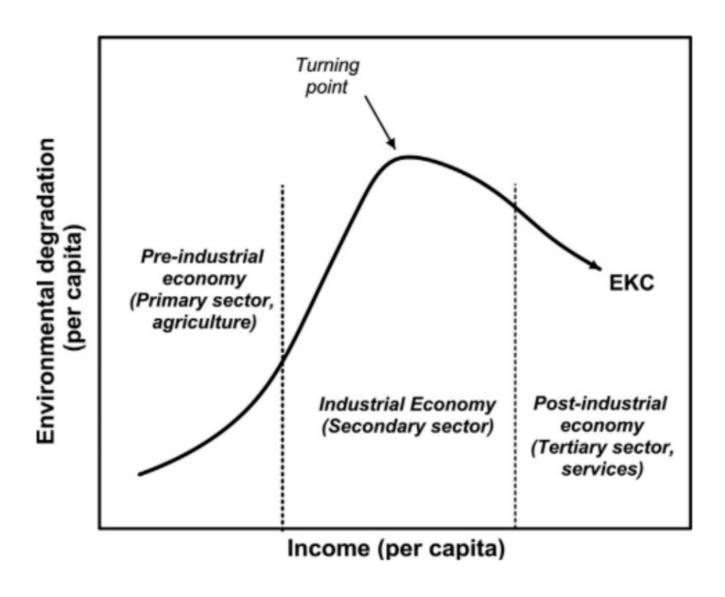


TRANSPORT EMISSIONS IN THE EU

Greenhouse gas emissions breakdown by transport mode (2019)





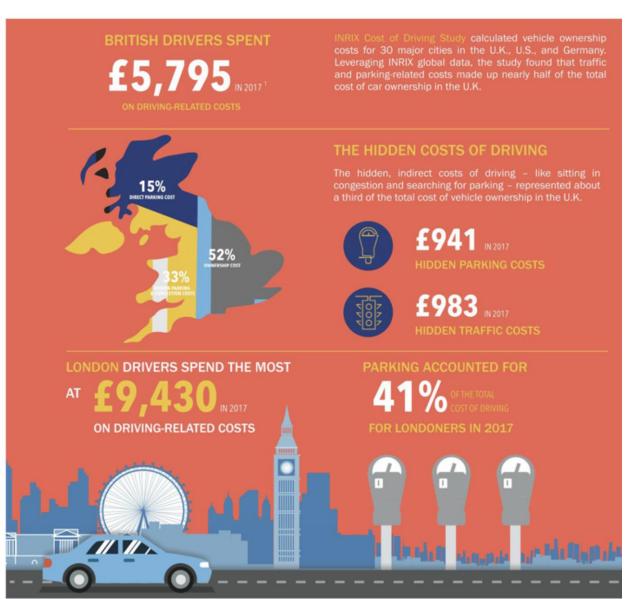








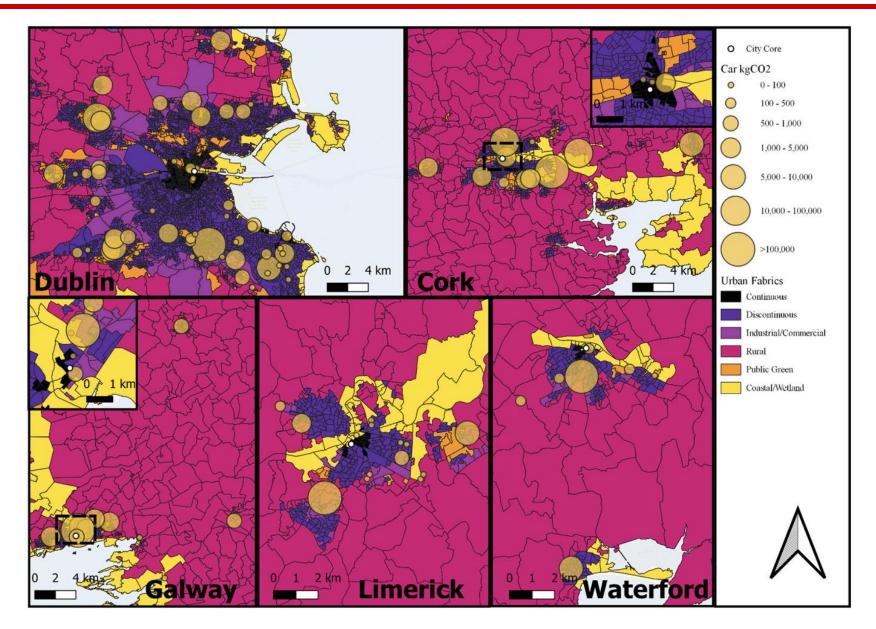
THE COST OF DRIVING IN THE UK





Economist.com







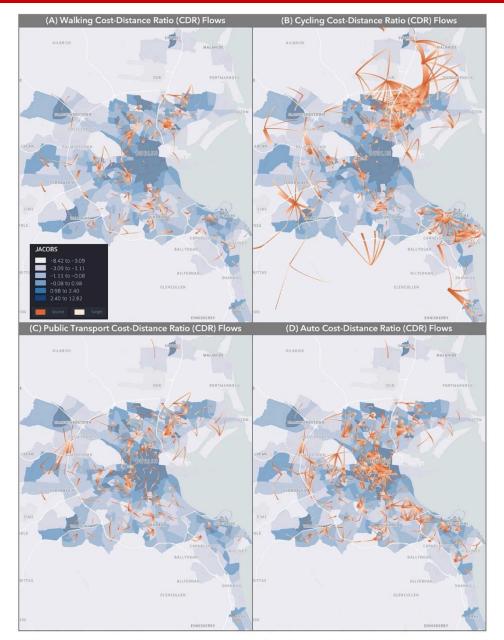


Fig. 5. (A)-(D). Maps showing largest cost-distance ratios by origin-destination flow for the (A) walking, (B) cycling, (C) public transport, and (D) auto modes. Line width is scaled by cost-distance value and overlaid on values of the aggregate Built Environment Index (BEI) by Electoral Division (ED).



But There Is Still Lots To Unpack

 More 'walkable' built environments increase the efficiency of active transport modes; however, we also find that these environments are negatively related to cost efficiency for public transport, likely due to congestion effects for buses.

Table 5

Hypothesised and observed general directions of relationship between covariates and cost-distance ratios from random forest model accumulated local effects (ALE) plots, ordered by average importance across all models. Failed hypotheses marked in red; partially-failed hypotheses marked in pink.

Hypothesised | Observed General Direction of Relationship

Variable	Walking	Cycling	Transit	Auto
POPDENZ_j	- -	- -	- +	+ +
N_WALKZ N_BIKEZ N_TRANZ N_AUTOZ	+ +	+ +	+ +	+ +
Per_0_carZ_i	- -	- -	- +	+ +
BUILDENZ_j	- -	- -	- -	+ ∩
TRNSD_j	- U	- -	- +	+ +
POPDENZ_i	- -	- -	- +	+ +
INTDENZ_j	- U	- -	- -	+ ∩
TRNSD_i	- U	- -	- +	+ +
Per_BroadbZ_i	+ +	+ +	+ -	- U
BUILDENZ_i	- -	- -	- +	+ +
LUZ_j	- -	- U	- -	+ -
INTDENZ_i	- -	- -	- -	+ ∩
LUZ_i	- -	- U	- -	+ -

⁺⁼ positive (more costly), -= negative (less costly), $\bigcup =$ U-shaped, $\bigcap =$ inverted U-shaped.

Interesting Challenges For The Future (To Me, At Least)



Untangling Who We Are and Where We Live When Studying How We Travel

Commuting in Flux: The Roles of Place and Personal Circumstance In Shaping Behavioural Plasticity

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Navigating Change: Residential Relocation, Commuting Behaviours, and Built Environments

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How Mobile Are We, Really?

- (Geographic) mobility is a core assumption throughout Economic Geography theory:
 - Von Thünen, Crystaller, Alonso-Muth-Mill, Tiebout, Krugman etc...
 - But also in applications like job-search models in Labour Economics.

- But despite regular observations in empirical work, our theoretical understanding of those who are *immobile* remains incomplete.
 - What does it mean to be "stuck in place"?
 - What are the economic and social implications of being immobile?

Inter-Regional Mobility and Intra-Regional Mobility

R³: Roots, Routes, and Relatedness

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Thank you!