Transport Infrastructure and Economic Opportunity

Myra Mohnen University of Ottawa

NBER, October 2021

Location matters for social mobility

 Growing body of evidence shows that where children grow up has substantial causal effects on their prospects for upward income mobility.

```
[Case and Katz 1991; Massey and Denton 1993; Cutler and Glaeser 1997; Sampson et al. 2002; Chetty, Hendren and Katz 2016; Chyn 2018; Deutscher 2018; Laliberté 2018 building on Wilson 1987]
```

- Transport infrastructure has the potential to play an important role on the economic opportunity of individuals
 - Lower-income populations tend to suffer from restricted transport options (e.g. Chetty and Hendren 2018; Chetty et al. 2014)
 - In the long-run, this has the potential to break the link between parents' economic status and their children's outcomes, that is, to increase social mobility.

Train to Opportunity?

Can transport infrastructure break the link between parents and their children's economic status?

- Exploit census records and the expansion of the railroad in 19th Century England and Wales
- Estimate the causal effect of having better access to the railroad network on intergenerational mobility



Railroad Network



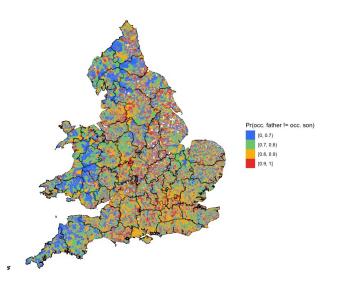


Historical Records

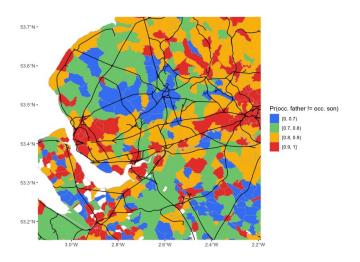
England 1851 Census

Parish on Thomship of Reclasiastical District of		City or Borough of		Town of	Village of	Village of	
	of Street, Place, or the Name or the Name or the Night of the 30th March, 1851		e of Females	Rank, Profession, or Occupation	Where Born	1	
4 framble Por San	Name Sign	Mas 72 Mice 32	XI How	House Keeper	form Services Make		
Soul Sam Samble Read All	The Do Son wel so Son sunder Sidney Hes	Mar 23	1 So	helen- helen- lecksmith	Do Go		
Relationsh to head of household	ip to San	Man 35	In	ecupation rem Lefourer	Birthplace Ro Russ De Wendre		
Eir	Marital status	*	& An	Age male/ female	go Do Sitting		
14_U 3	Epo	al of Persons 47	10				

Spatial Pattern of Social Mobility



Spatial Pattern of Social Mobility



Three Main Findings

- 1. Better access to the railroad network led to significant changes in social mobility patterns
 - Sons who grew up approx. 5km closer to the train station were 6pp more likely to work in a different occupation than their father and 5pp more likely to be upward mobile
- 2. Better access did not benefit everyone equally
 - It benefitted families at the top and bottom of the occupational ranking
- The majority of the effect is driven by changes in local labor market opportunities
 - Better connected sons were significantly more likely to work in new industries and in occupations requiring literacy and skills