

BOOSTING CROSS-BORDER REGIONS THROUGH BETTER TRANSPORT

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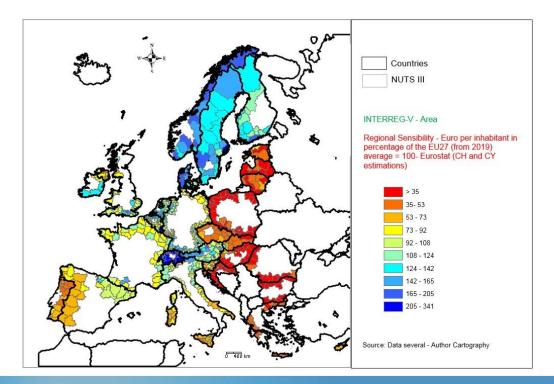
Socio-economic impacts

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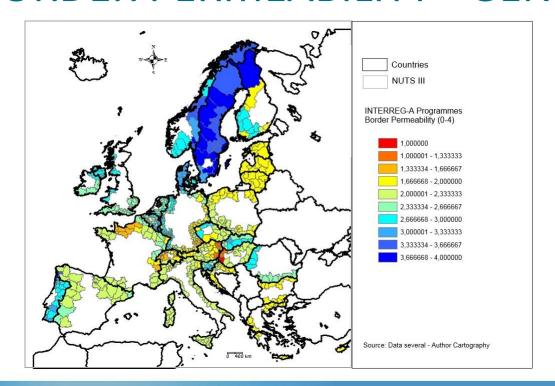


ECONOMIC IMBALANCES IN EU BORDER REGIONS



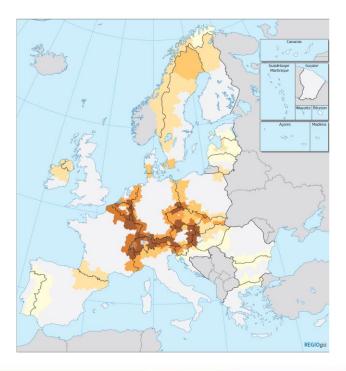


BORDER PERMEABILITY - GENERAL





INCREASED SOCIOECONOMIC POTENTIAL FROM **OVERCOMING NEGATIVE BORDER EFFECTS**



Total GDP loss as % of NUTS 3 GDP

< 3

3.1 - 6

6.1 - 9

9.1 - 12

12.1 - 15

> 15

Loss of GDP in EU NUTS 3 land border regions due to cross-border obstacles (Source: 7th Cohesion Report)





GAINS OF EFFECTIVENESS AND COMPETITIVENESS OF PUBLIC TRANSPORT

- 1. <u>Economic:</u> Less fuel consumption, less car congestion
- 2. <u>Environmental</u>: Less atmospheric pollutant emissions
- 3. <u>Social:</u> Enlarge offer to lower income classes
- If there is a big enough population and adequate public transport services, relevant urban policy will realize the compact city that reduces environmental deterioration and improves the efficiency of people's activities.
- However, financial sustainability of public transport totally depends on population density

Source: (Masanobu and Hanaoka, 2003)

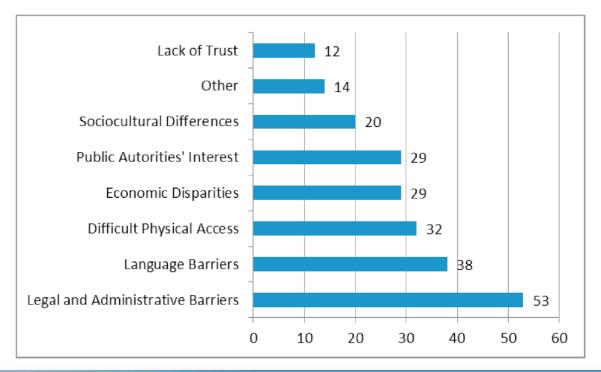




CB TRANSPORT – AS A BARRIER

Relevance and frequency of obstacles for EU citizens – 2016 (%)

Source: (EC, 2016).

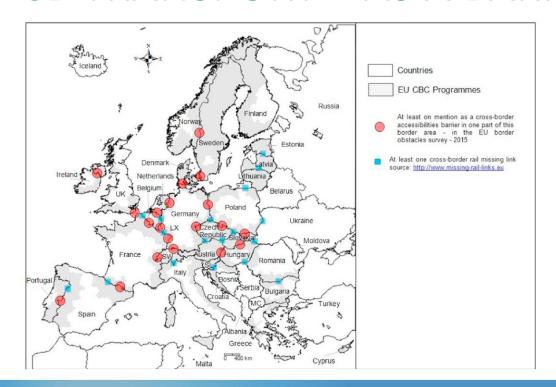








CB TRANSPORT – AS A BARRIER







CB PUBLIC TRANSPORT – DEMAND VS SUPPLY

TP: CB Transport Permeability index.

TSi: CB Transport Supply index (0-1)

TDi: CB Transport Demand index (0-1)

B: Buses CB intensity (0-1)

T: Trains CB intensity (0-1)

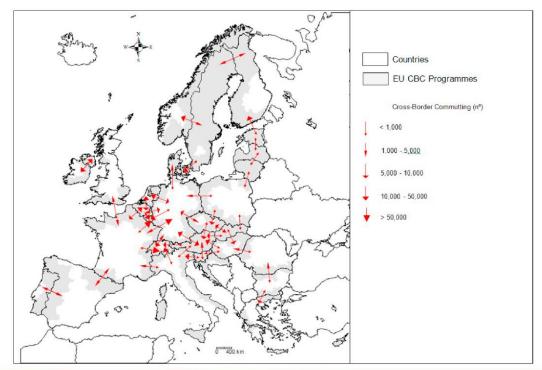
C: Commuters CB intensity (0-1)

P: Population density in the border region (0-1)

D: Demand for CB transports (0-1)

TSi = (B + T)/2; TDi = (C + P + D)/3; TPi = (TSi/TDi)

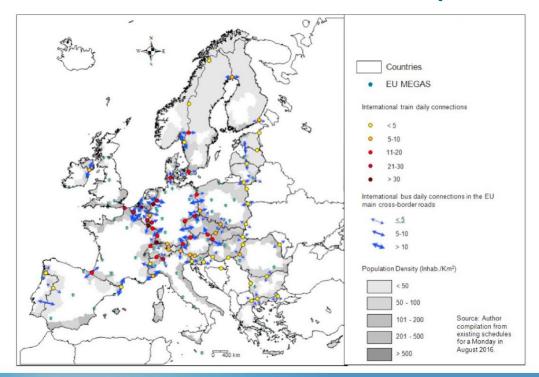
CB TRANSPORT – DEMAND (CB COMMUTTING)







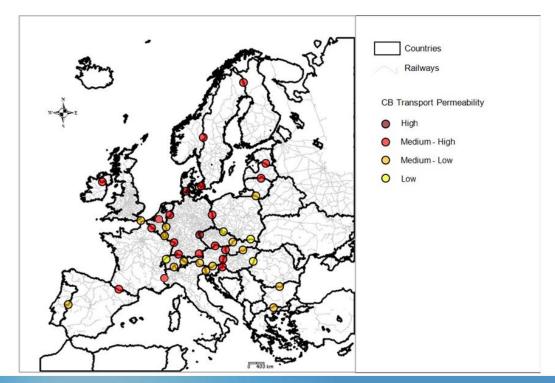
CB TRANSPORT – SUPPLY (BUS & RAIL)





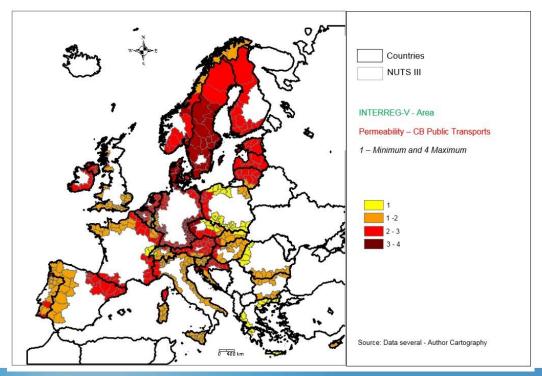


CB PUBLIC TRANSPORTS – PERMEABILITY INDEX



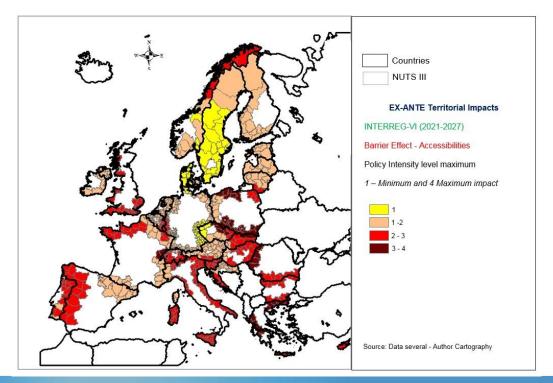


CB PUBLIC TRANSPORTS – PERMEABILITY INDEX

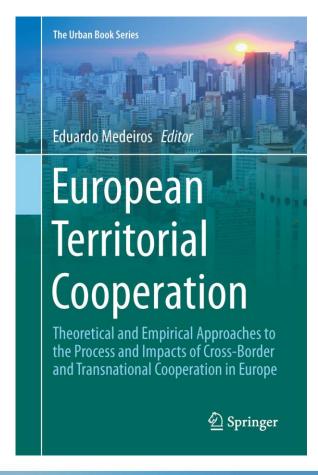




EX-ANTE TERRITORIAL IMPACTS - ACESSIBILITY







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