



Potential economic benefits from improved connectivity - a case study of rail between Scotland and the North East of England

Scottish Transport Summit June 15<sup>th</sup> 2017 Glasgow

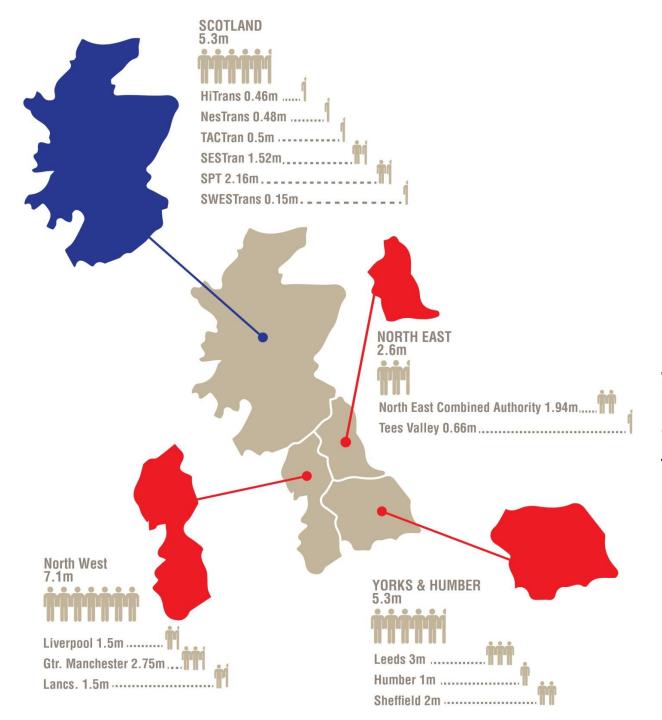
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### Scotland and Northern England are Sizeable Economies SYSTIA







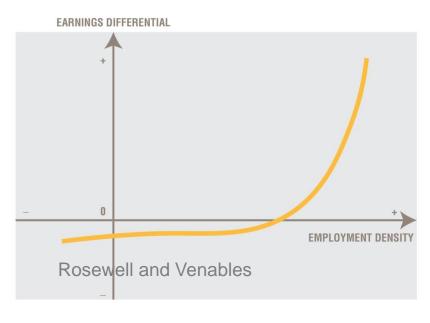
With some significant functional economic areas

# How improved connectivity benefits the economy (i)



#### BY EXPANDING PLACES.....

- Facilitating larger & more effective labour markets
  - allowing constrained places to grow and
  - more productive economic activity within city centres

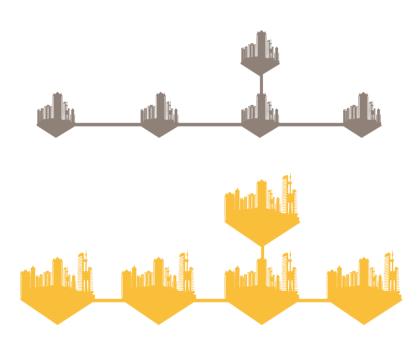


# How improved connectivity benefits the economy (ii)



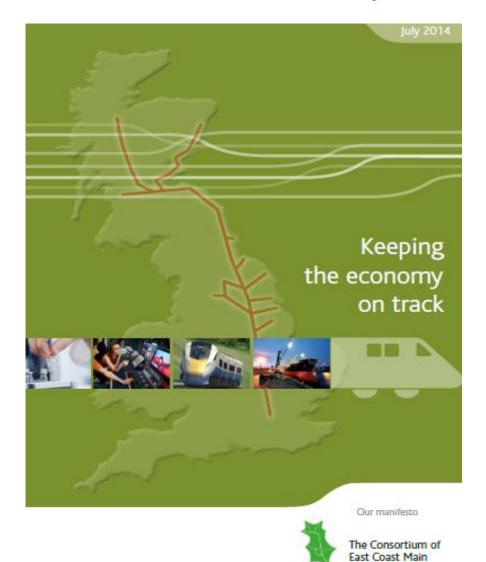
#### BY CONNECTING PLACES.....

- Better connectivity improves access to markets and acces to suppliers
- Similar economies can grow
- Different economies tend to specialise
- Productivity gains can be realised



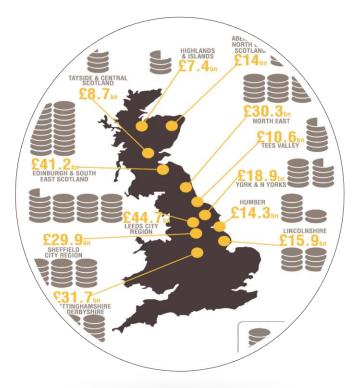
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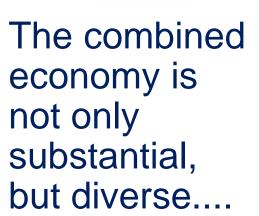
### The East Coast Main Line Study



Line Authorities











Manufacturing specialism's – both advanced and applied: requiring links to important freight routes





Finance and business service sectors require good business-to-business connections





The growing renewable energy sector along the North East coast is increasing the need for collaboration





Biotech and
"science city"
sector is
growing and
creating
demand for new
business-tobusiness
connections





Emerging digital and creative sectors



Tourism is important along the whole length of the corridor and particularly in Scotland





The North Sea oil and gas industry: still an important driver for connectivity, including to related sectors



International
Links – and
connections to
the East Coast
ports are
important for
trade

## Modelling these linkages: the SYSTRA Economic Model:



#### Inputs:

- Size of the economies (No of jobs)
- Structure of the economies (type of jobs)
- How far apart they are
- The connectivity improvement between them

#### Outputs:

 The marginal uplift in GDP from one level of connectivity to another







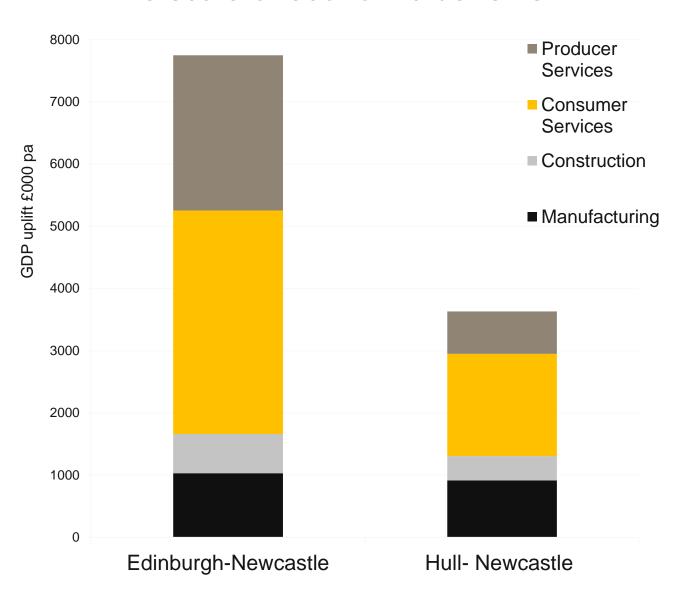
# Observations 1: Size is important. But not the whole story...

| Size of Absolute<br>GDP Increase per<br>Economy Pair | % Total Net<br>GDP | % of Economy<br>Pairs |
|--|--------------------|-----------------------|
| >£5m pa  | 38                 | 3                     |
| £1m- £5m pa  | 41                 | 15                    |
| <£1m pa  | 21                 | 82                    |
|  | 100%               | 100%                  |

A small numbers of connections between the largest economies generate most of the potential benefits .....however uplifts in smaller economies can be proportionately more valuable



## Observations 2: Economic structure affects the scale of economic benefits

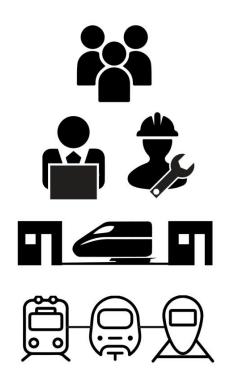


Hull and Edinburgh have different sized economies but they are also structurally different ...the graph shows how the GDP uplift from improved connectivity is `affected by this

## In Summary – Does better connectivity make a difference?

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- Yes, noting the caveats about scale, structure, proximity etc earlier
- 'Necessary but not sufficient' condition
- Requires substantial political capital behind it
  - Define goals
  - Strategy to deliver
  - Provide certainty (stick to it)
  - Deliver it





### Thank you for listening

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