

# Article

## Transport Infrastructure and Regional Development: A Survey of Literature on Wider Economic and Spatial Impacts

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**Abstract:** The main purpose of the paper is to provide an overview of methods used to research the relationship between transport infrastructure investments and regional development, with a focus on wider impacts both in the traditional economic context (wider economic impacts or WEIs) and—which is a methodological novelty proposed by this paper—in the spatial context (wider spatial impacts or WSIs). In terms of methodology, research may be conducted using the following methods: cost-benefit analysis (CBA) and multi-criteria analysis (MCA), accessibility and potential models, econometric production function estimates, regional modelling, trade and input-output (IO) modelling, Land Use-Transport Interaction (LUTI) or spatial computable general equilibrium (SCGE) models. In the European Union, approaches based on cost-benefit analysis (CBA), or possibly multi-criteria analysis (MCA), continue to prevail. Notwithstanding the availability of a wide range of methods for quantifying socio-economic impacts, the European Union recommends that wider economic impacts at the regional and national levels be assessed by means of qualitative approaches. This being the case, it is recommendable for the European Commission to take broad-ranging action towards ensuring that the effects of transport infrastructure investments are assessed by means of a broader range of approaches.

**Keywords:** CBA; MCA; potential accessibility; econometric estimations; input-output; general equilibrium models; transport infrastructure; European Union

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### 1. Introduction

Transport infrastructure investments can have a considerable but varied impact on regional development. Regional development and economic growth theories emphasise the role of transport links in generating income (balanced and unbalanced growth strategies) or in its interregional redistribution (polarisation theories and new economic geography theories) and identify infrastructure investments as a potential source of ‘crowding out’ private investments (classical theories) or as public expenditure necessary to stimulate economic growth (the Keynesian theory), thus enabling ‘externalities’ to be achieved (the new growth theory).

The complexity of relationships between infrastructure expansion and regional development and of the transmission of effects requires a separate overview of literary sources. The comprehensive overviews of studies that were produced at the time when research into these topics was ‘booming’, such as [1,2], do not provide an insight into the most recent research efforts/trends/methods, i.e., those from the last two decades. In addition, to the best of the authors’ knowledge, there are no new comprehensive literature surveys which encompass the broad range of methods that look into what is referred to as wider economic impacts (WEIs), which cannot be captured by conventional cost-benefit analysis (CBA). The exceptions include publications by Legaspi et al. [3] and Rothengatter [4], which, however, focus on approaches to measuring WEIs based on GDP

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### **Table of Contents Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning**

1. Understanding the eBook Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
  - The Rise of Digital Reading Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
  - Advantages of eBooks Over Traditional Books
2. Identifying Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In

- Planning
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
  - Personalized Recommendations
  - Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning User Reviews and Ratings
  - Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning and Bestseller Lists
- 5. Accessing Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning Free and Paid eBooks
  - Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning Public Domain eBooks
  - Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning eBook Subscription Services
  - Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning Budget-Friendly Options
- 6. Navigating Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning eBook Formats
  - ePub, PDF, MOBI, and More
  - Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning Compatibility with Devices
  - Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
  - Highlighting and Note-Taking Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
  - Interactive Elements Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
- 8. Staying Engaged with Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs

- Following Authors and Publishers Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
- 9. Balancing eBooks and Physical Books Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
  - Setting Reading Goals Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
  - Fact-Checking eBook Content of Economic Impact Analysis A Uk Literature Survey And Bibliography Progress In Planning
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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