

Review

The Impact of Knowledge Spillovers on Economic Growth from a National Perspective: A Comprehensive Analysis

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Abstract: Knowledge spillovers, driven by development and research projects, are crucial in generating new companies and services. They enhance innovation, improve competitiveness, and sustain the economic growth of nations. Hence, this paper aims to examine the relationship between knowledge spillovers and economic growth. It offers a comprehensive review of the scientific literature on the relationship between knowledge spillovers and economic growth, investigating the impact of economic cycles on knowledge spillover. Doing this provides valuable insights into how to leverage them at the different stages of the economic cycle. Hence, a PRIMA systematic review was conducted. Articles from the last 15 years were analyzed from repositories and scientific databases with a Cohen's kappa coefficient of 0.8902. This review identifies and presents a systematic analysis of the impacts of favoring and hindering knowledge spillovers in the economic growth of a nation. These effects offer greater resilience to a nation after periods of recession. In addition, the case study of three countries is presented to illustrate the findings from the review. The results show that better utilizing knowledge spillovers to enhance economic growth depends on a functional compromise between the university, industry, and governments to understand and commit to knowledge-based economic development. Our study has implications for policymakers who aim to boost economic growth by promoting knowledge spillovers.

Keywords: knowledge spillovers; economic cycles; economic growth; patents; innovation



Citation: Arcos-Guanga, A.; Fier-Unda, O.; Novillo-Villegas, S.; Acosta-Vargas, P. The Impact of Knowledge Spillovers on Economic Growth from a National Perspective: A Comprehensive Analysis. *Sustainability* **2024**, *16*, 6537. <https://doi.org/10.3390/su16156537>

Academic Editors: Binuo Mooley and Antonio Boggia

Received: 8 February 2024

Revised: 2 July 2024

Accepted: 21 July 2024

Published: 31 July 2024



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1. Introduction

Nowadays, in a globalized and technology-driven economy, knowledge spillovers play a significant role in the economic growth and innovation of a country [1–3]. Its financial and technological strength, competitiveness, and international reach depend on its ability to adapt, develop, and implement inventions through effective strategies and mechanisms [4]. Moreover, innovation (included in the ninth sustainable goal of the United Nations Development Programme) is a crucial driver of economic growth by promoting technological progress, scientific research, and sustainable industries. This, in turn, stimulates the search for lasting and sustainable solutions to environmental and economic challenges while facilitating sustainable development [5]. Hence, “the need to evaluate the effectiveness of the innovation transfer is increasing” [4]. Over the few last decades, the study of the relationship between economy and innovation has emerged as a distinctive area of examination, covering regional economics, the economics of growth, firm theory, and industrial organization. It has evolved into a particular area of competence in economics specialized in exploring the effects of technological transformation as an endogenous process [6,7]. In the study of multiple domains of economic theory, “innovation is viewed as a complex, path-dependent process characterized by the interdependence and interaction of a variety of heterogeneous agents, able to learn and react creatively with subjective and procedural rationality” [7]. Therefore, examining the relationship between

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Knowledge Spillovers and Economic Growth Marjolein C. J. Caniëls, 2000-01-01 the book gives a valuable contribution to the understanding of the role of knowledge in the regional growth process as the methodological approach is eclectic and stimulating the book represents a stimulating contribution to the debate among economists social scientists and policymakers on the role of knowledge and knowledge spillovers on the future growth patterns of industrialised countries

Maurizio Baussola *The Economic Journal* **Knowledge Spillovers and Economic Growth** André van Stel, Henry Nieuwenhuijsen, Tinbergen Institute, 2002 **Knowledge Spillovers and Economic Growth** Marjolein C. J. Caniëls, 2000

One of the most striking paradoxes of our time has been the growing importance of regions in the face of a globalizing economy This insightful book explains the dynamics of regions in a global economy and sheds light on the role of knowledge in driving regional growth The author examines the way in which regions grow by receiving knowledge from surrounding regions Using evolutionary theory she advances the argument that knowledge spillovers operate locally Computer simulations analyse the impact of knowledge spillovers on economic growth across European regions Finally the author uses new original data on among others patents and research and development to demonstrate differences in economic and innovative activity across regions

Knowledge Spillovers and Economic Growth Anna Kathryn Cai, 2015 Since the seminal work of Lucas 1988 uncompensated knowledge spillovers have been shown to play a critical role in the process of economic development However the standard Lucas model studies human capital accumulation in narrow settings with one industry and a closed economy This dissertation attempts to study the development process in richer settings In particular various types of spillovers are examined Our work shows that intra industry spillovers promote economic growth but inter industry spillovers are more complex Specifically spillovers from human capital across sectors may lead to lower overall growth of consumption In an open economy setting the growth rates of human capital critically depend on variation across countries in educational productivity In particular if the growth rate of human capital is stronger abroad than domestically human capital accumulation will decline at home However the magnitude of the problem depends on differences in regional external economies In fact such differences might actually cause the stock of human capital to decline over time Our work also demonstrates that external economies from human capital have important implications for international trade which provides additional linkages for economic activity across countries Namely increased spillovers at home will lead to a deterioration in the domestic terms of trade Consequently policies designed to affect the diffusion of knowledge will impact regional economic activity

Knowledge Spillovers and Economic Growth: an Empirical Analysis for the Netherlands Adriaan J. Stel, André van Stel, H. R. Nieuwenhuijsen, 2002 **Essays on the Theory and Evidence of Knowledge Spillovers in Economic Growth** Rasmus Thönnessen, 2015 **Knowledge Spillover-based Strategic Entrepreneurship** João J. Ferreira, Leo-Paul Dana, Vanessa Ratten, 2016-11-03 This book is about the role of knowledge

spillovers and strategic entrepreneurship in the management context. It focuses on how knowledge spillovers and strategic entrepreneurship are crucial to the process of creative destruction and construction. The book aims to provide insights into and discussion on how firms combine entrepreneurial action that creates new opportunities for industries, regions and economies. This book is first of its kind to link knowledge management perspectives to strategic entrepreneurship to understand the co-creation process. Being interdisciplinary in nature, this book appeals to entrepreneurship and knowledge management scholars, students and practitioners.

Spatial Knowledge Spillovers and the Dynamics of Agglomeration and Regional Growth Max C. Keilbach, 2012-12-06 and Feldman 1996 or Audretsch and Stephan 1996 show that unformalized knowledge may play a major role in the innovation of new products. Now if unformalized knowledge is communicated personally, distance will be an important variable in this process since the intensity of contacts between persons can be expected to be negatively correlated to the distance between them. In the discussion of section 3.3.1, page 42, we saw that it was this aspect of localization that Marshall had in mind when he was alluding to local trade secrets.

4 Note that if this spatial dimension of communication between agents exists, it is possible to transfer it to regional aggregates of agents: the closer two regions, the more they will be able to profit from the respective pool of human capital, R & D output, etc. of the other region. This argument gives a spatial interpretation of the literature on endogenous growth. Now if these spillovers have a spatial dimension, then it follows from the discussion in chapter 3 that they will be one driving force in the dynamics of agglomeration. With the model to be developed in this chapter, I will investigate the hypothesis that it is these forces of agglomeration, i.e. spatial spillovers of nonrival goods or factors that are responsible for the inhomogeneous pattern of growth convergence.

To analyze this phenomenon, I consider different types of regional aggregates and different distances in the model.

Knowledge Spillovers and Knowledge Management Charlie Karlsson, Per Flensburg, Sven-Åke Hörte, 2004-01-01. This book highlights a number of issues at the leading edge of both research and policy making such as knowledge generation, production, knowledge distribution, transfer, knowledge spillovers, learning, knowledge management, information logistics, industrial clusters, industrial networks and regional innovation systems. This book will appeal to academics and researchers of knowledge management, technology and innovation and industrial organisation. Policy makers and planners in international organisations, national and regional governments, in particular those dealing with R & D policies, industrial policies and regional policies will also find much to engage them.

Endogenous Innovations and Knowledge Spillovers Werner Smolny, 2012-12-06. The recent development of endogenous growth theories has renewed the interest into the sources of productivity growth of the advanced industrialized economies. The basic advance of these models is that the evolution of technological progress is explained endogeneously within the economic model. The most important concept is the idea of endogenous market-driven innovations which are seen as the basic source of technological advances. Firms develop sophisticated production techniques and new products in order to reduce costs or to stimulate demand. Equally important is

the concept of knowledge spillovers from innovation activities and scale economies associated with them. External effects drive a wedge between private and social returns of innovation activities and scale economies affect the market structure. In addition, each year's productivity increases exhibit an enormous social value. Therefore, the analysis of endogenous innovations, scale economies and knowledge spillovers has important implications for economic policy which enhances the interest into empirical investigations of these issues. This book is a collection of theoretical and empirical work on this subject. It combines micro economic and macroeconomic issues, a special emphasis is placed on empirical applications. Much work has been devoted to the search and the preparation of appropriate data and all models are estimated with panel data. The first two chapters take an aggregate view at the growth process.

Knowledge Externalities, Innovation Clusters and Regional Development Jordi Suriñach, Rosina Moreno, Esther Vayá, 2007-01-01. This book begins with a theoretical examination of regional innovation systems, agglomeration economics and knowledge spillovers before going on to examine the same concepts within an empirical framework. Special emphasis is given to the importance of proximity in the formation of regional innovation systems. It concludes by considering innovation and human capital as determinants of regional economic growth. The concept of knowledge spillovers is used within the book to explain a number of major economic phenomena including the geographical clustering of inventions, the social returns to R and the sizeable disproportions that exist between firms in terms of their R D inputs and outputs. The contributors identify that small firms are responsible for far more product innovations than large firms relative to their measurable knowledge resources. The book also stresses the importance of a catch up mechanism that sees technological improvement as the combination of two distinct types of activity: innovation and imitation. In this way, the impact of human capital and other types of knowledge acquisition on economic growth is measured. The conclusions of the contributors are invaluabley oriented to policy implications. This book will appeal to researchers and postgraduate students of regional science and innovation and knowledge as well as policymakers.

Clusters and Regional Development Bjorn Asheim, Philip Cooke, Ron Martin, 2006-09-27. Using international examples, leading scholars present the first critical analysis of cluster theory, assessing the cluster notion and drawing out not only its undoubted strengths and attractions but also its weaknesses and limitations. Over the past decade, the cluster model has been seized on as a tool for promoting competitiveness, innovation and growth on local, regional and national scales. However, despite its popularity, there is much about it that is problematic and in some respects the rush to employ cluster ideas has run ahead of many fundamental conceptual, theoretical and empirical questions. Addressing key questions on the nature, use and effectiveness of cluster models, *Clusters and Regional Development* provides the missing thorough theoretical and empirical evaluation.

Handbook of Research on Innovation and Entrepreneurship David B. Audretsch, O. Falck, S. Heblich, 2011-01-01. This path breaking Handbook analyses the foundations, social desirability, institutions and geography of innovation and entrepreneurship. Leading researchers use their outstanding expertise to investigate various aspects in the

context of innovation and entrepreneurship such as growth knowledge production and spillovers technology transfer the organization of the firm industrial policy financing small firms and start ups and entrepreneurship education as well as the characteristics of the entrepreneur There is much in this Handbook that will prove to be informative and stimulating especially for academics and post graduate students in economics and management Those starting a PhD in innovation or entrepreneurship will find this book essential reading Routledge Handbook of the Economics of Knowledge Cristiano Antonelli,Albert Link,2014-12-05 The Routledge Handbook of the Economics of Knowledge provides a comprehensive framework to integrate the advancements over the last 20 years in the analysis of technological knowledge as an economic good and in the static and dynamic characteristics of its generation process There is a growing consensus in the field of economics that knowledge technological knowledge in particular is one of the most relevant resources of wealth yet it is one of the most difficult and complex activities to understand or even to conceptualize The economics of knowledge is an emerging field that explores the generation exploitation and dissemination of technological knowledge Technological knowledge cannot any longer be regarded as a homogenous good that stems from standardized generation processes Quite the opposite technological knowledge appears more and more to be a basket of heterogeneous items resources and even experiences All of these sources which are both internal and external to the firm are complementary as is the interplay between a bottom up and top down generation processes In this context the interactions between the public research system private research laboratories and various networks of learning processes within and among firms play a major role in the creation of technological knowledge In this Handbook special attention is given to the relationship among technological knowledge and both upstream scientific knowledge and related downstream resources By addressing the antecedents and consequences of technological knowledge from both an upstream and downstream perspective this Handbook will become an indispensable tool for scholars and practitioners aiming to master the generation and the use of technological knowledge

Foreign Direct Investment and the Chinese Economy Chunlai Chen,2017-10-27 Foreign Direct Investment and the Chinese Economy provides a comprehensive overview of the impact of foreign direct investment with extensive empirical evidence on the Chinese economy over the last three and a half decades Public Policy in the Entrepreneurial Society David B. Audretsch,2013-12-27 In this book David Audretsch examines the impact of public policy in the entrepreneurial society and in ensuring that entrepreneurship continues to serve as a driving force for economic performance Do university policies or knowledge conditions **Global Entrepreneurship, Institutions and Incentives** Zoltán J. Ács,2015-12-18 This book presents some of Zoltán J. Ács's most important contributions since the turn of the new millennium with a particular intellectual focus on knowledge spillover entrepreneurship It studies the evolution of global entrepreneurship and pays attention to the role of institutions and the incentives they create for economic agents who become either productive or unproductive entrepreneurs For productive entrepreneurs those that create wealth for themselves and for society the author

offers a knowledge spillover theory of entrepreneurship as a new way to help understand the entrepreneurial ecosystem For those that create wealth only for themselves the author develops a theory of destructive entrepreneurship that undermines the entrepreneurial ecosystem The book also presents an explanation of the role of philanthropy in reconstituting wealth to complete the circuits of capital in the theory of capitalist development Finally the author examines several public policy issues including immigration and technology transfer This volume will be required reading for students and scholars of entrepreneurship economics and public policy

Knowledge Spillovers in Regional Innovation Systems Jan Stejskal,Petr Hajek,Oto Hudec,2018-03-07 This book provides an assessment of the evolution and dynamics of regional innovation systems RISs and the economic and social impact of resulting knowledge spillovers presenting comparative case studies on the regions of several Central and Eastern European CEE countries Czech Republic Poland Hungary Slovakia Lithuania and Estonia It analyses RISs on the basis of several dimensions such as absorption capacity and intellectual capital and using several methods such as data envelopment analysis patent network analysis and weighted sum approach Further by looking at the economic and social impact of knowledge spillovers in RISs and networking it identifies key distinguishing factors including foreign direct investments still prevalent centralized decision making EU driven innovation policies and public financing of innovations Sectoral case studies e g from the automobile chemical and other hi tech manufacturing industries are presented to help readers understand the different types of knowledge spillovers in CEE countries and the evolution and dynamics of RISs and provide a multifaceted overview of the CEE regions

China's Lessons for India: Volume I Sangaralingam Ramesh,2017-09-04 This book and its companion volume offer a better understanding of the lessons that Indian policymakers can learn from China s economic experience over the last 40 years The aim of the two books together is to evaluate China s incremental reforms and how these reforms have impacted on the Chinese economy based on a classical rather than from a neoclassical perspective using a case study method In this first volume the author examines India s emergence from socialism and central planning as being in sharp contrast to China s experience and considers how we might compare the institutional difference between the countries It also covers a theoretical grounding for the comparison of the two largest populated countries in the world which will be taken up by the second volume

Knowledge, Complexity and Innovation Systems Manfred M. Fischer,Josef Fröhlich,2013-11-27 In recent years there has been growing scientific interest in the triangular relationship between knowledge complexity and innovation systems The concept of innovation systems carries the idea that innovations do not originate as isolated discrete phenomena but are generated through the interaction of a number of actors or agents This set of actors and interactions possess certain specific characteristics that tend to remain over time Such characteristics are also shared by national regional sectoral and technological interaction systems They can all be represented as sets of institutional actors and interactions whose ultimate goal is the production and diffusion of knowledge The major theoretical and policy problem posed by these systems is that knowledge is generated not only by

individuals and organisations but also by the often complex pattern of interaction between them To understand how organisations create new products new production techniques and new organisational forms is important An even more fundamental need is to understand how organisations create new knowledge if this knowledge creation lies in the mobilisation and conversion of tacit knowledge Although much has been written about the importance of knowledge in management little attention has been paid to how knowledge is created and how the knowledge creation process is managed The third component of the research triangle concerns complexity

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