

# Measuring Entrepreneurial Ecosystems

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## Abstract

How can entrepreneurial ecosystems and productive entrepreneurship be traced empirically and how is entrepreneurship related to entrepreneurial ecosystems? The analyses in this chapter show the value of taking a systems view on the context of entrepreneurship. We measure entrepreneurial ecosystem elements and use these to compose an entrepreneurial ecosystem index. Next, we measure the output of entrepreneurial ecosystems with different indicators of high-growth firms. We use the 12 provinces of the Netherlands as a test case for measuring the entrepreneurial ecosystem elements, composing an entrepreneurial ecosystem index and relate this to entrepreneurial outputs. The prevalence of high-growth firms relates to the overall value of the entrepreneurial ecosystem index, but not to individual elements of the entrepreneurial ecosystem. The model fit increases once we introduce a multiplicative index and a non-linear model. By measuring entrepreneurial ecosystems and their outputs in this way we move from the ecosystem metaphor to a complex system model of the entrepreneurial economy.

## Introduction

The entrepreneurial ecosystem approach has gained prominence amongst entrepreneurs, entrepreneurship supporters (Feld 2012), and in public policy (Isenberg 2010). Entrepreneurial ecosystems have revealed to be a mobilizing metaphor in the public and private sector, also bridging the boundary between the two. The popularity of the concept is however not a sign of its robustness: the approach is highly undertheorized, and not yet adequately measured (Stam 2015). This chapter offers measures and methods for analysing entrepreneurial ecosystems as a system, moving beyond the metaphorical use of the entrepreneurial ecosystem concept. We use complex systems - systems composed of many components which may interact with each other – reasoning to improve insight into how entrepreneurial ecosystems function as a whole system. Complexity economics (Arthur 2013) provides the conceptual basis for analysing the relation of entrepreneurial ecosystems with outputs (entrepreneurship) and outcomes (value creation and structural change).

Several studies (Stam 2015; Spigel 2017; Stam and Spigel 2018) have shown that the entrepreneurial ecosystem approach can be used to synthesize prior academic research on the geography of entrepreneurship (see e.g. Sternberg 2009; Stam 2010) and entrepreneurship and regional development (see e.g. Fritsch 2013). The synthesizing model (see Figure 1) includes insights from the academic literature (i.e. the aspects that have been deemed important elements of entrepreneurial ecosystems), but most importantly it provides more causal depth with four ontological layers (framework conditions, systemic conditions, outputs, and outcomes), including the upward and downward causation, and intra-layer causal relations (Stam 2015). Upward causation reveals how the fundamental causes of new value creation are

# Measuring Entrepreneurial Ecosystems The Regional

**Peipei Pang**



## **Measuring Entrepreneurial Ecosystems The Regional:**

## **Measuring Entrepreneurial Ecosystems The Regional** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Measuring Entrepreneurial Ecosystems The Regional**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Measuring Entrepreneurial Ecosystems The Regional**

1. Understanding the eBook Measuring Entrepreneurial Ecosystems The Regional
  - The Rise of Digital Reading Measuring Entrepreneurial Ecosystems The Regional
  - Advantages of eBooks Over Traditional Books
2. Identifying Measuring Entrepreneurial Ecosystems The Regional
  - 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 Measuring Entrepreneurial Ecosystems The Regional
  - User-Friendly Interface
4. Exploring eBook Recommendations from Measuring Entrepreneurial Ecosystems The Regional
  - Personalized Recommendations
  - Measuring Entrepreneurial Ecosystems The Regional User Reviews and Ratings
  - Measuring Entrepreneurial Ecosystems The Regional and Bestseller Lists

5. Accessing Measuring Entrepreneurial Ecosystems The Regional Free and Paid eBooks
  - Measuring Entrepreneurial Ecosystems The Regional Public Domain eBooks
  - Measuring Entrepreneurial Ecosystems The Regional eBook Subscription Services
  - Measuring Entrepreneurial Ecosystems The Regional Budget-Friendly Options
6. Navigating Measuring Entrepreneurial Ecosystems The Regional eBook Formats
  - ePub, PDF, MOBI, and More
  - Measuring Entrepreneurial Ecosystems The Regional Compatibility with Devices
  - Measuring Entrepreneurial Ecosystems The Regional Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Measuring Entrepreneurial Ecosystems The Regional
  - Highlighting and Note-Taking Measuring Entrepreneurial Ecosystems The Regional
  - Interactive Elements Measuring Entrepreneurial Ecosystems The Regional
8. Staying Engaged with Measuring Entrepreneurial Ecosystems The Regional
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Measuring Entrepreneurial Ecosystems The Regional
9. Balancing eBooks and Physical Books Measuring Entrepreneurial Ecosystems The Regional
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Measuring Entrepreneurial Ecosystems The Regional
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Measuring Entrepreneurial Ecosystems The Regional
  - Setting Reading Goals Measuring Entrepreneurial Ecosystems The Regional
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Measuring Entrepreneurial Ecosystems The Regional
  - Fact-Checking eBook Content of Measuring Entrepreneurial Ecosystems The Regional
  - 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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