2ND International Conference on Entrpreneurship, Innovation and Regional Development

Contribution of location theories for Regional Development: an empirical study applied to technology-based firms João J. Ferreira,-University of Beira Interior Carla Susana Marques University of Trás os Montes e Alto Douro Cristina Fernandes – University of Beira Interior

Thessaloniki, 2009

Contents

1. Introduction

2. Theoretical Views on firms' location

- 2.1.Neoclassical View
- 2.2 Behavioural View
- 2.3 Institutional View
- 3. Methodological and statistical procedures
- 4. Results: Location factors of technology-based firms
- 5. Final considerations

Introduction

 Entrepreneurship, as well as the factors behind its existence and their influence on regional economic development, has been studied by several authors (Birley, 1985; Kirchof e Phillips, 1988; Storey, 1994).

Introduction

- Questions on location theories are inevitably linked to the question of entrepreneurship and its relevance to regional development.
- That is to say, what makes entrepreneurs, who are responsible for the entrepreneurial activity; choose a particular location to set up their business?

Introduction

 Given the importance of regional development and location theories, we shall aim to identify, in the present research, the reasons which lead technology-based firms to set up in a particular region, with particular emphasis on the factors which influenced the decision to locate technology-based firms in the Beira Interior Region (Portugal).

2.Theoretical Views on firms' location

- Location of economic activity can be analysed through three distinct views (Hayter, 1997):
 - (i) the neoclassical
 - (ii) institutional and;
 - (iii) behavioural.
- We chose to follow the theoretical classification advanced by Hayter (1997)

2. Theoretical Views on firms' location



- The classification of technology-based industries includes the OECD (2003) classification for R&D intensive manufacturing industries, given the major contribution that these firms may give to the country in terms of R&D production, wealth and added value.
- Four key categories have been identified: (i) high-technology industries; (ii) mediumtechnology industries; (iii) medium-lowtechnology industries; and (iv) low-technology industries.

- Based on OECD (1996) criteria, our unit of analysis (Beira Interior region) is rural in all the localities that it comprises, as we shall next demonstrate.
- We used the face-to-face method in our research, in order to obtain the highest possible number of responses.

- The objectives of our research were to analyse and identify the factors which inform decisions on the location of technology-based firms in the Beira Interior Region (Portugal).
- We aim to:
 - (i) empirically validate the proposed conceptual model on decisions on the location of technology-based firms in Beira Interior;
 - (ii) identify which factors influence the location of technologybased firms in Beira Interior; and
 - (iii) characterize firms according to distinct technology levels and detect eventual differences between levels. In order to identify the location factors of high, medium and low-technology firms in Beira Interior, we carried out a factor analysis on 19 items of the questionnaire

- The factor analysis reveals that the proposed conceptual model has a slightly different application when applied to Beira Interior Region, in what concern the aggregation of factors.
- Thus, our empirical model is as follows:



4. Final considerations

- It was precisely at this point that we have answer for our research question:
- what are the reasons that make technology-based firms set up in a particular region? And particularly, which were the location factors in the case of technology-based firms in Beira Interior?

4. Final considerations

- According to the results obtained it was possible to identify the following factors which influence the location of technology-based firms in the Region of Beira Interior:
- (i) the founder's wish to live in the locality;
- (ii) the employees' wish to live in the locality;
- (iii) proximity to the founder's residence;
- (iv) the founder's birthplace;
- (v) the level of economic activity in the region (this factor only influences high and medium-technology firms).

4. Final considerations

 We can thus conclude that entrepreneurs with firms in Beira Interior region were led by personal reasons when deciding on the location of their firms.

• In other words, they were primordially influenced by behavioural factors.

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