

Do regional economists answer the right questions?

On the discrepancy between the questions regional economists solve and the questions policy makers actually ask

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Abstract

In this position paper I argue two things: namely, (i) regional (or spatial) economists do not always answer the type of questions policy makers are concerned about, and consequently (ii) they are very restrictive in the tool set they apply. First, policy makers—whether national, regional or local—are oftentimes concerned about holistic approaches and future predictions. Exemplary questions are “What works best for my country/region/city” and “If we change this what will happen to the country/region/city as a whole?”. Regional economists—actually, most economists—usually isolate phenomena in order to, at best, explain the impact of a single determinant. Indeed, most regional economists feel very uncomfortable when asked to predict or give the best set of determinants for a certain phenomenon. This has its consequences for the tool set the regional economists applies. Usually a parametric regression type of framework is applied isolating the determinant under consideration and controlling as much as possible for unobservables and unobserved factors, ideally in a pseudo-experimental framework. A direct consequence of this approach is that emphasis is very much on explaining the impact of a determinant and not on predicting phenomena. For many applications that is definitely the right approach, however, as this paper forcefully argues, it is very much as well a selective approach that does not do well to deliver on some of the questions policy makers ask regional economists.

Keywords

Regional science — spatial heterogeneity — conditional robustness — predicting — data science

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Contents

Introduction	1
1 Background	1
2 Research gaps	2
3 Research Agenda	2
3.1 Regional heterogeneity	2
3.2 Conditional robustness	2
3.3 Regional sorting models	2
References	2

Introduction

The sexiest job in the next 10 years will be statisticians.

Hal Varian, 2009

The above quote from Hal Varian is in one aspect wrong; nowadays, we do not call them statisticians, but data scientists. Nevertheless, companies such as Google, Ebay, Whatsapp, Facebook, Booking.com and Airbnb, have not only witnessed enormous growth but also changes the socio-economic landscape.

1. Background

Regions are conceptually different than cities, as they contain urban, suburban and rural areas simultaneously. Whilst smaller regions can still be seen as the total influence radius of metropolitan areas—such as measured by the concept of local labor markets and the NUTS-2 regions in Europe—, larger regions can typically contain a multiple of cities in combinations with their various hinterlands—such as the Dutch Randstad, the Belgian Flemish Diamond, and the German Ruhr areas.

In recent years, the urban economics literature witnessed large growth; not only noticed by a wider acceptance in mainstream economics, but as well by larger scientific rigor and increased robustness of empirical findings. Remarkably, the empirical regional economics (or regional science in general for that matter) literature lagged behind, although many concepts and challenges in both disciplines are conceptually similar and are derived from similar theoretical backgrounds.

Similar to urban economics¹, there is not yet a clear (con-

¹For this reason, in the UK in 2013 a new centre called “What Works Centre for Local Economic Growth” led by Professor Henry Overman at the London School of Economics (LSE) has been established. This centre

sensus in) understanding in which policy instruments are actually (cost-)effective in promoting regional growth.

To do so, I first review the previous literature in section 1. This section focuses mainly on regional economics as it has a larger emphasis on *causal* effects. To a lesser extent we deal with the (economic geography) literature. Based on this literature review Section 2 deals with the research gaps that can be identified.

- housing & population;
- amenities;
- connectivity & accessibility
- networks;
- social & human capital

2. Research gaps

3. Research Agenda

3.1 Regional heterogeneity

(Thissen et al., 2016; de Graaff et al., 2012b,a)

3.2 Conditional robustness

In regional science in general and in regional economics in specific, remarkably little attention has been given to reproducibility and robustness of results (with some exceptions as, amongst some others, by Rey, 2014; Arribas-Bel and de Graaff, 2015; Arribas-Bel et al., *Forthcoming*).

3.3 Regional sorting models

As in Bayer et al., (2004) and Bayer and Timmins, (2007) and recently by Zhiling et al., (2016) and Bernasco et al., (*Forthcoming*).

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focuses mainly on the causal impact (impact evaluation) of investments at the city level.