IDENTIFYING THE POTENTIAL OF GREATER POLAND TO DEVELOP COOPERATION NETWORKS

Foresight, a tool for creating common future (visions), relies on monitoring significant developments and formulating strategic objectives for enterprises, sectors or regions. The article presents a comparative analysis of the findings of identity studies carried out in 2010 and 2016 in the Region of Greater Poland (also referred to by its Polish name of Wielkopolska) as part of a foresight project that relied on business networks to foster innovation. Region’s identity translates into its potential and propensity to change, as it is interpreted as the synergy of key skills and common values. The discussion below identifies trends in building the region’s identity and shows whether such an identity will support the development of cooperation networks.

The above research has shown an identity as being a factor in the assessment of coexisting formal structures and relationship networks, which constitutes a significant potential of a region. While noting the incorporation of regional identity into foresight research, the authors emphasize the need for regular studies. Knowledge on regional identity helps formulate measures that support a sense of community and reveal the opportunities which the decision-makers involved in building Innovative Wielkopolska can use to make a difference. The study findings show that significance of identity components changes along with transformations in public expectations.

**Keywords**: foresight, region’s identity, shaping of networks, potential, Wielkopolska (region in Poland)

1. INTRODUCTION

A study carried out at the Poznań University of Technology between 2009 and 2011 within the framework of the project “Foresight – Wielkopolska Business Networks – knowledge transformation scenarios in support of innovative economy” has suggested that Wielkopolska’s developmental transition should begin with defining the Region’s strategic identity (i.e., specifically, the shared values and key competencies that define it), systemic measures aimed at promoting entrepreneurship and network initiatives, preparing and coordinating programs to foster research and development cooperation, helping disseminate knowledge via business support institutions and among businesses and stimulating the development of social capital. By identifying such potential, that is
locally available capacities and tangible as well as intangible resources, a launching pad will be formed for realistic development scenarios.

Defined as learning organizations, whose knowledge is transferred among individual actors, regions aspire, as their key purpose, to seek to disseminate their knowledge and have it used for experimentation (in the pursuit of innovation). Knowledge is a resource that grows along with increases in the number of its applications. This is because practical applications of knowledge help better understand the underlying causes and principles. As knowledge is disseminated (diffused) via networks, new skills and competencies are acquired and critical issues are identified. As a consequence, knowledge is built and disseminated across a shared value network through human interactions which allow information to be transferred across organization structures. One’s identification with a specific location or institution and one’s dedication to pursue structural improvements and modifications can well be identified by reference to identity. The article relies on a method developed by K. Ragin-Skorecka and applied to assess the identity of the Wielkopolska Region in 2010 and 2016 studies.

The resulting comparative material outlines the transitions witnessed in the Wielkopolska Region helping one to reassess the existing potential for implementing the concept of Innovative Wielkopolska which the Region has pursued for a number of years.

2. METHODOLOGY FOR INVESTIGATING THE POTENTIAL OF THE WIELKOPOLSKA REGION

2.1. The use of foresight to prepare for the future

The term “foresight” was coined by J.F. Coates, who defined it as “a process by which one comes to a fuller understanding of the forces shaping the long-term future which should be taken into account in policy formulation, planning and decision-making.” K. Safin sees foresight as a process that enables one to “preempt various possible variants of the future and prepare responses to the most likely events.” Foresight is a process that encompasses recurring periods of reflection followed by the construction of networks which incorporate diverse social groups. It relies on social consultation and debates among various stakeholders. In its multiple scenarios, foresight research follows the stages of:

1. analysis (quantitative as well as qualitative),
2. model development (relationship networks, process modeling),
3. verification by way of social consultations,
4. development of deployment precepts (scenarios).

The procedure leads to building a shared multi-faceted outlook while ensuring widespread identification with the adopted strategy. Foresight is employed to explore

---

long-term potentials resulting from the impact of science and innovation on the general public. The perceptions of the future, commonly represented in foresight surveys as individual scenarios, rely on diagnoses of the status quo, assessments of the development potential, the identification of trends and attempts to identify mechanisms triggered by the decisions of various interest groups. An actively created vision of the future combines the items monitored, trends and impacts on the future seen vis-à-vis the development trends desired by decision-makers. Therefore, foresight research begins with attempts to identify and analyze the status quo in the recognition that the future results from past and present actions.

With respect to the Region of Greater Poland, the foresight research has focused on networking, the diffusion of innovative ideas and institutions which support businesses and regional identity, all of which helped assess the current potential.

2.2. Procedure for assessing growth opportunities

Regional development relies on the accumulated resources to create growth poles and differentiate structures by polarizing the economy. Such growth poles emerge, evolve and fade away through the spread of innovation and the impact of development incentives. Discrepancies in regional development arise over time through the operation of cause-and-effect mechanisms within the existing structures. Such feedback mechanisms generate positive or negative reinforcement (respectively triggering either growth or recessions). By recognizing significant resources and relationships as well as measures and incentives that stimulate or impede growth or recessions, decision-makers and local authorities formulate their regional policies and intervene in the process. Therefore, relevant research and assessments are focused on networks. In a network, borderlines between individual network components become blurred. This is because less attention is being paid to formal limitations while priority is given to relationships across and within the individual components. A network’s cohesion is achieved by ensuring that its components are sufficiently diverse so as to secure and guide the initiatives of individual entities. A key to assessing the development potential of a given region is to identify the characteristics of its network. Note that the view that networks are multifaceted, commonplace and beyond one’s grasp preempt debates on whether network mechanisms operate properly. Networks, which have become ubiquitous, are often seen as backgrounds to formal organizations. Researchers commonly forego attempts to identify the differences between structures and networks. As a consequence, they resort to the term “network organization” which implies unpredictability. This approach is justified with the growing complexity, environmental pressures, orientation issues, uncertainty and data overload.

If organizations and networks are recognized as suited to face different challenges, one will naturally expect that different research methods and approaches to their description be used for their assessment. Nevertheless, operating realities and pragmatics make it necessary to assess circumstances in which networks and structures coexist. For that reason, the authors assume that a key to synthetically assessing the status quo is to define the identity of an organization.
Fig. 1. Characteristics of regional identity

Source: (Ragin-Skorecka, 2010a, p. 20)
2.3. Regional identity

Scholars vary in the definitions of organizational identity they adopt depending on their research perspectives. Zarębska defines organizational identity as an ethos that expresses the aims and values of significance for an organization and that presents the rationale for individuality that helps distinguish oneself in a competitive market. Identity helps present organizations to target groups – they are a planned self-presentation which relies on a specified strategy. Pacholski and Wyrwicka compare organizational identity to “a genetic code which determines the predispositions and traits manifested by a given organism, which may either be improved during its lifetime or left unexpressed and unutilized”. To ensure terminological consistency, organizational identity has been defined as “a system of mutually complementary features of an organization which distinguish it individually, ensure its stability and consistency and contribute to its internal and external reputation”. Identity has been assumed to manifest itself through an organization’s reputation, reputation being a notion broader than image and affording deeper insights into the complexities of identity.

Regions (voivodships) are the highest-level units of administrative subdivision in Poland as well as the highest echelon of local governments. Being highly autonomous entities, regions resemble organizations. Having recognized this, one may proceed to a discussion on regional identity and a region’s stakeholders.

The identity of a Voivodship is a system of the region’s complementary features which distinguish it from others and which contribute to its stability, cohesion as well as internal and external reputation. The features that make up a region’s identity are defined with emphasis on the good intentions that underpin them and how they are evaluated.

The variables that make up a region’s identity can be divided into the three categories (Fig. 1) of shared values, key skills and the overlap between the two. Key skills provide the region with an advantage helping it stand out from among other regions. These features are susceptible to change – they can be fashioned to ensure the achievement of the specific objectives of a region and its residents. Shared values are a blend of cultural transformations, stereotypes and local traditions. They are acquired and evade control as many of them do not become absorbed into the collective awareness of the region’s local community. The overlap between the two is an area of a region’s own values which are

---


also key skills and which, under proper conditions (or circumstances) become controllable13.

3. SELECTED RESEARCH OUTCOMES

3.1. Study outline

The study’s objective was to assess the identity of the region and identify its key properties that translate into the regional identity. The findings additionally helped identify the region’s features and the ways changes were attempted to improve the region’s perception.

The study relied on a survey questionnaire comprised of 78 questions referring to the tree of the region’s identity features. Responses to these closed-ended questions could be selected on a seven-point scale ranging from the lowest score (weight) of 1 to the highest score of 7. The identity scores were used to evaluate two aspects. One was the respondent’s assessment of the present state of a given regional identity component. The other indicated the significance of the component in developing the region’s identity. The respondents’ input helped define the region’s identity broken down by respondent groups as well as identify the key elements of the region’s identity and rank them by importance.

The first such surveys were conducted in 2010 as part of the research project “Foresight – Wielkopolska Business Networks – knowledge transformation scenarios in support of an innovative economy”. Carried out in Wielkopolska, the survey involved a representative sample of five respondent groups. The responses were contributed by 800 residents, 200 local government officials, 50 representatives of the news media, 50 business managers, and 100 research scholars. The sample and its weighing was designed to ensure representativeness across the individual subregions of Wielkopolska (the subregions of Poznań, Kalisz, Leszno, Pila and Konin).

The survey was repeated in 2016, this time covering 50 respondents as it was not possible to include a larger population. Due to the small size of the sample, the interpretation of the outcomes will not be broken down by subregions but rather generalized over the entire region of Wielkopolska.

The region’s identity was assessed and the key identity components that require change to improve its perception identified by means of an own tool relying on fuzzy logic and factor analysis14.

3.2. The identity of Wielkopolska

The majority of the region’s identity components are soft factors which escape assessment by hard criteria. As the evaluations were expressed in a natural language, it was necessary to employ the tool of Fuzzy Identity Indicator. The interpretation focused on a triangular fuzzy number which is diffused and consequently translated into an understand-

---


able description of a region’s identity. The tool and its underlying algorithm are presented in[15].

Fig. 2. Fuzzy Identity Indicators for Wielkopolska in 2010 and 2016

Source: Own research

An analysis of the outcomes received from the entire study population showed that the identity of Wielkopolska deteriorated in 2016 approximating model level B. This means that the region’s identity is made up of a neutral reputation and a neutral image. In 2010, the region’s identity was close to level B+ (Fig. 2). The outcome and its comparison with the previous findings suggest the upsetting conclusion that Wielkopolska’s identity is in decline.

3.3. Key identity variables

The Fuzzy Identity Indicator can be used to identify areas that are key to developing a strong regional identity. Changes in these variables should be recognized as a top priority. Fig. 3 shows the regional identity components whose Fuzzy Identity Indicators were the highest in 2016 and 2010. Respondents in 2016 pointed to 7 and those in 2010 to 8 variables that are key to the entire population whose Fuzzy Identity Indicators ranked high.

A comparison of the 2016 and 2010 results shows improvements in the regional identity components for the components of continuation of predecessor policies, propensity to migrate within the region, attempts to modify ancestral ways of doing things, predisposition to parsimony and reluctance to take risk. Such findings are interesting as the characteristics fall into the area of own values which can hardly be controlled at the level of the organization, i.e. e.g. the level of regional authorities or entities operating in the region.

No improvements were seen in the areas of access to universities by senior citizens, access to interest and discussion groups and partner relationships among businesses. All of the above are controllable variables set out in the category of key competencies. Particular attention at the regional level should be paid to the variable of partner relationships among businesses as a critical success factor in Wielkopolska.

The year 2016 saw the arrival of new areas in need of improvement, i.e. water and sewerage infrastructure, access to libraries and reading rooms, commitment to creating business networks and development objectives. All of these variables fall into the key skills category. Particularly disquieting is the addition of the two final key factors as it suggests difficulties in Wielkopolska’s development.

Factor analysis proved helpful in reducing the homogenous set of input variables by replacing it with a single new variable. Such analysis shed light on the internal relationships among factors tackled in multidimensional observations and helped identify key factors and rule out information that was of little significance for the matter at hand, i.e. for the region’s identity. The variables that help define the significance of the selected identity components are the importance of each highlighted identity characteristic.

The results subjected to interpretation by factor analysis are the rotated factor loading score matrix and a factor loading score plot. Figure 4 presents the regional identity components given the highest factor loading scores (above 0.62) in 2016 and 2010. 20 variables were selected in 2016 and 14 in 2010 that were significant for the entire population.

No improvements were seen in the areas of development objectives, continuation of predecessor policies and actions taken by Wielkopolska politicians. These are controllable variables set aside as key skills that refer to regional policy. A number of new areas of key significance for improving regional identity emerged in 2016. The majority of them fell into the key skills category.
Identifying the potential of Greater Poland …

A comparative analysis of the Fuzzy Significance Indicator and factor analysis outcomes points to the key regional identity variables that require modification. In 2016, these were:

- access to libraries and reading rooms,
- commitment to creating business networks,
- development objectives.

Fig. 4. Regional identity components of high significance as identified in 2010 and 2016

Source: Own research
The above characteristics fall into the key skills (KS) category, which makes them controllable variables. Of particular importance for Wielkopolska’s economic development is the focus on selecting adequate development objectives and ensuring the support and engagement of public administrative authorities in the creation of economic networks.

4. CONCLUSIONS

The above research has shown identity as being a factor in the assessment of coexisting formal structures and relationship networks, which constitutes a significant potential of a region. While noting the incorporation of regional identity into foresight research, the authors emphasize the need for regular studies. Knowledge on regional identity helps formulate measures that support a sense of community and reveal the opportunities which the decision-makers involved in building Innovative Wielkopolska can use to make a difference. The study findings show that significance of identity components changes along with transformations in public expectations. However, one should note that a number of significant factors remain unaffected by economic and political developments. Such identity components should be taken under “particular care” and be used as a tool for integrating the local community.

Furthermore, by identifying variables that can be controlled by regional authorities, the study points to opportunities to take action and make a difference thus facilitating measures that promote growth and help achieve the desired aims.

REFERENCES

IDENTYFIKACJA POTENCJAŁU WIELKOPOLSKI W KSZTAŁTOWANIU
SIECI WSPÓŁPRACY

Foresight, jako narzędzie kreowania wspólnej przyszłości (wizji), zakłada monitorowanie istotnych zjawisk i wytyczanie kierunków strategicznych dla przedsiębiorstw, branż lub regionów. Artykuł pokazuje analizę porównawczą wyników badań tożsamości Wielkopolski (przeprowadzone w roku 2010 i 2016), realizowaną w ramach foresightu dotyczącego proinnowacyjnego oddziaływania sieci gospodarczych. Tożsamość regionu, jako synergia umiejętności kluczowych i wartości wspólnych stanowi o potencjale regionu i gotowości do przeobrażeń. Prezentowana tu analiza pozwala dostrzec w jakim kierunku przeobraża się tożsamość regionu i czy będzie wspierać kształtowanie sieci współpracy.

Wyniki prezentowanych badań pokazują tożsamość jako parametr oceny współistnienia struktur formalnych i sieci powiązań, która stanowi istotny potencjał regionu. Zwracając uwagę na ulokowanie tożsamości regionu w badaniach foresight, autorki podkreślają potrzebę prowadzenia cyklicznych badań. Wiedza o tożsamości regionu wytycza kierunki działań wspierających poczucie wspólnoty i ujawnia możliwości sprawcze decydentów budujących Innowacyjną Wielkopolskę. Uzyskane rezultaty badań pokazują, że istotne elementy tożsamości zmieniają się, gdyż przemianom ulegają oczekiwania społeczności. Warto jednak dostrzec, że ważność niektórych czynników pozostaje niezmienne, nie podlega dynamice sytuacji gospodarczej i politycznej. Te składowe tożsamości powinny być „pod szczególną opieką” i być obiektem działań integrujących lokalną społeczność.

Prezentowane badanie pokazuje również możliwości sprawcze, identyfikując zmienne sterowane z punktu widzenia władz regionu, co powinno ułatwić wprowadzanie zmian prorozwojowych i ukierunkowanie funkcjonowania na pożądane cele.

Słowa kluczowe: foresight, tożsamość regionu, współpraca w sieci, potencjał, Wielkopolska

DOI: 10.7862/rz.2016.mm52

Tekst złożono w redakcji: październik 2016
Przyjęto do druku: grudzień 2016