

# Agriculture as a success factor for municipalities?

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**Abstract** – Prospective changes in agricultural policies will set more emphasis on targets and customer concerns. The analysis of a unique data base stemming from 18,000 citizens' responses in 60 communes shows interference between the performance of farming and the cognition of quality of life. Agriculture is – among other factors – one of the most significant predictors of quality of life in a municipality.<sup>1</sup>

## INTRODUCTION AND MOTIVATION

Austrian agricultural policy has been striving for years to reward services performed by a multifunctional agriculture. Currently, with the reform of agricultural and regional policy of the EU the targets are discussed anew. In this situation, arguments and evidence in the multi-functionality are important. To what extent does agriculture promote common goods and achieve objectives, perceived and recognised by the population? The analysis of a record on population surveys in citizen participation processes helps to answer this question.

The research project "ErfolgsVision" (engl. "Vision of Success") analyzed the results from population surveys in a cross-comparable way. The research project aimed at giving better support to citizen participation processes. The general idea was that an eagle's eye view of the recent citizen participation processes may yield new information, valuable for regional development consultants as well as municipality management and policies.

Three partners joined for that project: SPES Academy, the data owner and regional developer; STUDIA-Schlierbach, an applied social researcher, so far responsible for municipal survey evaluations; and the Department of Statistics and Probability Theory at the Vienna University of Technology.

## PARTICIPATION PROCESSES AS A DATA SOURCE

Over the past few years, the SPES Academy supervised and controlled numerous citizen participation processes in Austrian and German municipalities, mostly within the framework of Local Agenda 21, LEADER or communal business development programmes. These processes established innovative ideas, alliances and problem solutions in the municipi-

palities. For many of them it was the first time that broad levels of the population were actively involved in local development.

Interviews were conducted in order to understand citizens' demands, preferences and dispositions. They covered major issues concerning the habitation environment, infrastructure and services. They also assessed social capital in communities and positions on strategic fields of action. The results of the surveys have been used to provide a basis for local decision making. They have been reflected and discussed in communal committees and – most often – presented in public events or published in the local news. Each municipality received its own evaluation, consisting of tables, texts and graphics. This data gathered from local polls resulted in a unique record when summarised over the regions and years,.

The SPES "Gemeindepanorama" (engl. "panorama of the municipality") is a screening of the local mind-set. Between 2000 and 2006, 60 communities participated, 45 of them from Austria (Upper and Lower Austria, Tyrol and Vorarlberg) and 15 from Germany: Baden-Württemberg and Bavaria. In total, 18,748 questionnaires have been collected, on average 312 per municipality. The survey has been subject to individual adaptations towards the municipal needs. It usually comprised about 250 questions, most of them multiple choice. 134 questions have been posed identically in 30 or more municipalities and yield comparable results. Some 25 questions concerned the local agriculture.

In the course of the research project, those data have been merged with statistics on demography and economy. 40 mayors gave feed-backs on recent performance of their commune.

## ANALYZING SUCCESS FACTORS

*Hypotheses.* Starting the research project, SPES developed a list of 27 hypotheses to be tested and questions to be answered, e.g.

- What makes communities successful?
- What makes quality of life (satisfaction)? What success factors are conditions for a sustained positive trend in quality of life?
- What factors encourage optimism? E.g. a strong mayor, successful projects, citizens interior binding and commitment, youth on board, good climate in coexistence and cooperation, high social capital, good communal information and public relations.
- Sector thinking in the communities disturbs the development of a positive quality of life. The closer to the habitat, the more important networked, holis-

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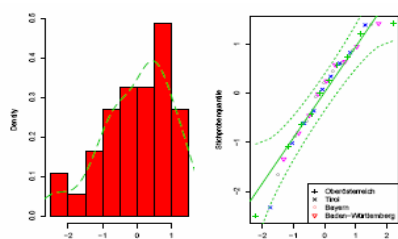
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From the questions and hypotheses, we derived target variables. Sets of explanatory variables were not derived from the hypotheses, but with an automatic search procedure (*Lasso regression*). An *all-subset regression* has been carried out to find the essential set of variables explaining the target variable. Robust regression procedures have been applied to attain results that are not susceptible to singularities.

The significant factors for a commune's quality of life are thus linked to supply structures, merchants' activity and inventiveness, to social climate factors like "youth-friendliness". It is important to mention, that model variables have been selected by the methods described above. Other model calculations show an influence of health services' supply and education and vocational training opportunities.



$$\text{QoL} = 8.73 + 0.28 A + 0.21 Y + 0.14 V + 0.20 M_c + 0.20 M_i$$

$$(5.9) \quad (4.0) \quad (3.6) \quad (3.8) \quad (3.2)$$

$$adj. R^2 = 0.93, \quad dF = 27$$

- Heißenhuber, A., Gaiser, S., Schmidlein, E.M. and Baaske, W. (2002). Kommunale Agrarverantwortung für eine nachhaltige Entwicklung der bäuerlichen Landwirtschaft. Krappitz, U. (Hg.), Regina, Neu- markt i.d.Opf., ISBN 3-00-009142-4.
- Tichbon, C. and Newton, P. (2002). Life is Do-able: Quality of Life Development in a supportive Small Group Setting. *Occ. Paper Series*, vol.2, Mental Health Foundation. New Zealand. ISSN 1175-6640.