

# Demographic Transition In Aging Neighborhoods: A GIS-Based Analysis From Germany's Countryside

Markus Schaffert and Torge Steensen (Germany)

**Key words:** Geoinformation/GI; Spatial planning; Keyword 1; Keyword 2; Keyword 3

## SUMMARY

The ongoing demographic transition within aging single-family house neighborhoods in Germany poses a significant challenge for municipalities. The scarcity of data related to the demographic composition and location quality complicates research efforts and the development of adaptive strategies for these residential areas. This issue is particularly pronounced in rural regions where resources for capturing and analyzing demographic trends are limited.

To address this gap, we propose a methodology based on Geographic Information Systems. In this approach, municipal population registers serve as a central data source for extracting insights about the residents. We present the findings primarily in the form of maps, as they are intended to be easily comprehensible for urban planners and local government staff. Additionally, we outline the initial steps in establishing a small-scale monitoring system that incorporates demographic indicators as well as reachability estimates. A case study from northern Bavaria is used as an illustration.

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FIG Working Week 2024

Your World, Our World: Resilient Environment and Sustainable Resource Management for all  
Accra, Ghana, 19–24 May 2024