Demo: Identification of potential for residential building



contractors - Alpine Building Centre





Background

Social housing has special requirements for property sizes, especially with regard to economic development and suitability for subsidies. Since suitable and mobilizable building land reserves are scarce, the densification of existing buildings or an overlapping of retail buildings with housing-use is becoming more and more important. This requires a valid and periodically updated data basis that shows potential plots of land, densification potential or possibilities for overlapping uses of retail and housing.

Method

iSPACE developed a prototypical approach within the Alpine Building Centre, which automatically identifies plots of land, options for densification and potentials for overlapping uses of retail and housing, which are suitable for social housing on the basis of digital data. By interlacing with indicators of the local building structure or with the number of owners, indications of mobilisation probabilities can be generated.

Objective

- Precise determination of building land reserves with special suitability for residential building contractors within already zoned areas
- Identification of possibilities for densification (e.g. addition of another storey) or overlapping retail buildings with housing

Innovation

- Parameter definition for the suitability of social housing
- Transferable, parameterizable GIS model: plot number of owners local building structure residential units

Benefit

- Localization & quantification of existing reserves for residential land with specific suitability for non-profit housing
- Identification of potentials for overlapping of retail buildings and housing within the zoning categories residential and commercial building land Indicators for probability of realization

Demonstration

- Alpine Building Centre
- Stakeholder-Workshop

Publication

- Gadocha, S., Prinz, T. & Spitzer, W. (2019): Räumliche Daten für die Mobilisierung von Nachverdichtungspotenzialen. In: AGIT – Journal für Angewandte Geoinformatik.
- Prinz, T., Spitzer, W. & Gadocha, S. (2020): Räumliche Indikatoren zur Nachverdichtung. Abstract und Präsentation. Münchner GI-Runde 2020.
- Prinz, T (2020): GIS und Smart Settlement Systems sowie Mobilität der Zukunft. Präsentation. ADV-Konferenz GeolT - Die gemeinsame digitale Erde.





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