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Land use transiton analysis using polygon based land use

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Most of the land use data is mesh or cell based format: land cover map derived from remotely sensed data, Digital Detailed Land Use Data (10m mesh), or Digital National Land Infromation and others. While, there are few researches based on polygon -based land use data because of the low accessibility. Zoning of city planning and many statistics information which has interactive relationships with land use are aggregated into administrative boudary which is irregular rectangular. The inconsistency of data aggregated unit has impacts on the relational analyzes between land use and socioeconomic data (Briassoulis, 2008). This study aims to analysis land use transition using multi-temporal polygon-based land use data for the year of 2000, 2005, and 2008 in Tsukuba City, Ibaraki Prefecture, Japan.

Reference

Briassoulis, H. 2008. Land-use policy and planning, theorizing, and modeling: lost in translation, found in complexity? Environment and Planning B, 35 (1),113-121.

Keywords: polygon-based land use data, spatial temporal data, land use, transition analysis