The proposal to extend the Polish cadastral model towards rational land management

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SUMMARY

Land use research is a crucial aspect of sustainable land management. The study aims to introduce a new land use class into the Polish cadastral model, based on land use registration systems in other European countries. The proposed addition of a new land use class aims to link the tax system with land and building records, facilitating the identification of taxable land. It has been proposed to extend the UML application schema with an additional class of land use and land cover objects, namely the Area of Special Functional Character. The proposed new land use class could be a very promising solution for unambiguously identifying areas with special functional character. Unambiguous identification of land classification into specific land use classes is essential for sustainable land management, as it enables better planning and resource allocation. The study results can serve as practical guidance for local authorities responsible for land administration and property taxation. Furthermore, they could constitute the first step towards developing a multifunctional real estate cadastre that incorporates the tax system.