A Proposal for Flexible, Affordable and Reliable Systematic Cadastres: Examples from Greece and Romania

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Key words: Crowdsourcing, Fit for Purpose Cadastre, Land administration

SUMMARY

Neither Greece nor Romania do not have complete cadastres for all of their territory. This paper investigates in both countries the current stage of progress, as well as the specifications and procedures applied so far for the compilation of a modern cadastre, and the process to set up a fully functional system soon.

The strategies and methodologies used for systematic property registration by both EKXA (Greece) and ANCPI (Romania), responsible NMCAs for the completion of national property registration systems, are presented and assessed in terms of efficiency, costs and compliance with a FFP approach.

The research investigates the potential for introducing the use of mobile services as an alternative approach that will accelerate the procedures, improve the quality of products and reduce the overall required times and costs. It is anticipated that the introduction of mobile services will enhance the active participation of the holders of property rights and will have a positive impact on the progress of the projects.

In order to test the results of the proposed methodologies two case studies are made, using a commercial application (ESRI's Collector for ArcGIS). The resulting cadastral surveys are compared to formal cadastral surveys compiled in both countries through the formal procedures. The implementation of the proposed procedure is tested in urban, rural and suburban areas both in Greece and Romania; the parameters of time, quality of cadastral surveys, achieved accuracies and gross errors avoidance are evaluated.

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FIG Working Week 2017
Surveying the world of tomorrow - From digitalisation to augmented reality
Helsinki, Finland, May 29–June 2, 2017