

Cadastral Base-Map Management in Indonesia

Refi Rizqi Ramadian, Sheilla Ayu Ramadhani, I Gde Witha Arsana, Agus Wahyudi Kushendratno and Virgo Eresta Jaya
(Indonesia)

Key words: Digital cadastre; e-Governance; Geoinformation/GI; Cadastral Base Map; Fit for Purpose; Digital Transformation

SUMMARY

The implementation of Geographic Information Systems (GIS) has been greatly impacted by the advancement of information technology. In Indonesia, the government recognized the potential benefits of using GIS for land-related activities and began using the technology while conducting a comprehensive and systematic land registration project (called PTSL) in 2017. The project itself has been developed and adjusted following the country needs. Trials on methods of spatial data acquisition were held and collaborations were also carried out to get a full yet complete cadastral base map throughout Indonesia.

The urge of modernizing Land Administration system led to the development standard and procedure for online management of cadastral base map. The primary goal of this development is to improve the accessibility and efficiency of data interoperability, where the existing data are expected to provide greater benefits for the public interests. By 2021, the plan on developing a digital scheme for cadastral base map management was firstly executed. As the initial step, compiling the existing imageries data and map were taken into action to make them easily accessible through web services. The following year – 2022, another development was implemented towards the system to adapt to the changing policy on cadastral survey methods.

The system – like any other system, still needs to be developed and adjusted following the needs of the stakeholders and users. The development of managing cadastral base-map in Indonesia and the efforts carried out to achieve the current improvement are elaborated in this paper. The challenges and how to tackle the issues related with system development were also mentioned – along with some further recommendations and resumes of the papers at the final section, thus they can be helpful both as a practical experience or basic knowledge for developing such system.

Cadastral Base-Map Management in Indonesia (12068)

Refi Rizqi Ramadian, Sheilla Ayu Ramadhani, I Gde Witha Arsana, Agus Wahyudi Kushendratno and Virgo Eresta Jaya (Indonesia)

FIG Working Week 2023

Protecting Our World, Conquering New Frontiers

Orlando, Florida, USA, 28 May–1 June 2023