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## SUMMARY

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### Developing Interactive Land Monitoring Reports for Communications using Geospatial Dashboard

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**Key words:** Interactive map platform, land monitoring report, communications of public policy, data dashboard, SOC related to people's livelihoods Map

Declaring a switch-over towards Data Economy, the Government takes a variety of actions for promoting the change in the way of tasking in government agencies. To this end, the Government makes it mandatory to provide supporting data for policy-making and encourages data analysis to be made and new technologies to be introduced. Along with this, an open innovation is to be pursued addressing the cooperative participation of professionals in private sector in daily practices.

To diagnose the intermingled pending issues among independent regions and to find appropriate solutions, required are cooperative actions derived through participation and communication among many stakeholders in a variety of fields. In addition, an integrated framework for promoting the rationality in policy-making needs to be accompanied, too.

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The purpose of this research is to make interactive land monitoring reports for communications as a platform that enable dynamic contents comprising interactive maps, graphs, video clips to be produced in an explanatory manner and various opinions to be shared in the data dashboard. Eventually, the platform intends to play a critical role in promoting communication and integration by providing a framework for monitoring various land territorial issues and encouraging data to be used and analyzed.

Founded upon the outcome of the preceding research named ‘Building Interactive Land Monitoring Reports for Promoting Well-Communication with the General Public (Lee et al., 2018)’, the platform built in this project makes it possible to examine some timely policy issues receiving national attention such as the accessibility of living infrastructure, the regional real estate market trends over time, the spatial distribution of nursery facilities (kindergarten, preschool, etc.) and corresponding demand population, etc.

Using the interactive reports, we could intuitively figure out the issues in concerned areas based on data analysis and visualization and confirm that the interactive reports could be utilized as a useful tool for promoting interactive communication and sharing opinions efficiently.

In addition, based on the outcome of this research, we suggested some key strategies for utilizing interactive reports for territorial land monitoring and policy-making and discussed further works. The research outcomes are summarized into three folds.

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First, we ascertain that the interactive reports provide an integrated tool for enabling 1) regional issues to be identified cooperatively in the process of diagnosing the status quo of territorial land, 2) information to be shared in an efficient communication framework for implementing policies and, 3) the policy effects to be measured and new issue highlighted to be found out. We are certain that the integrated tool will effectively promote the practice of data-driven territorial land policy-making.

Second, the interactive reports provide a solid ground point for finding collaboratively on solutions towards identifying regional issues, managing conflicts, monitoring the level of people's awareness of issues and conflicts, making territorial land policy through interactive communication, and supporting the process of learning territorial land, etc. In this manner, the reports expected to be utilized as a framework for sharing information and communicating effectively in supporting policy-making processes.

Finally, to build and utilize this sort of interactive reports effectively, we should create demand-based data production system, further develop data-driven communication tool for the territorial land policy-making support, build collaborative task system for producing and utilizing interactive reports in an open environment, and create data ecosystem of utilizing data.