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Mutual liaison between the revision of Fundamental Geospatial Data and the development of maps in the local governments

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The Geospatial Information Authority (GSI) is developing and providing Fundamental Geospatial Data (FGD) which is positional information to provide positional reference to geospatial information on a digital/electronic map. The GSI engages in the project based on Basic Act on the Advancement of Utilizing Geospatial Information passed in May 2007. In this development project, GSI also starts its efforts to update FGD, and aims to build a new framework for updating in cooperation with local governments.

The GSI developed 1:2,500-scale FGD in an area of 62,000 km² by the end of FY 2009. (As for 1:25,000-scale FGD, the GSI has already finished development and provision in a whole area of Japan in FY 2007). The GSI aims to finish development 1:2,500-scale FGD in areas designated for urban planning (about 100,000 km²) by the end of FY 2011.

Furthermore, it is important to ensure its freshness in order to expand the use of FGD, therefore the GSI starts the investigation to update FGD by using survey results. For example, the GSI makes a manual to update FGD with drawings for roadworks / road ledgers / urban planning maps, and investigates a scheme to collect information about changed area and reflect it on FGD effectively in cooperation with local governments.

In addition, we verify the use effects of FGD in the map developing work of local governments, and make a manual to use FGD in the work, in order to promote the utilizing of FGD. According to our estimation, the developing cost of urban planning maps could be reduced by 20-30% from the current cost, if FGD is updated properly.

Under the tight fiscal situation of the government, it is necessary for national government and local governments to cooperate together in the FGD development project. We will promote the project in cooperation with the map developing work of local governments.

Keywords: Fundamental Geospatial Data, NSDI Act of Japan, Public Survey, positional reference, seamless, provision without charge through the Internet