Renovation of the National Geospatial Dataset in Republic of Korea

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Summary
Geographic Information is using various way like disaster management, urban planning, transportation, ground or underground facility management. But, since middle of 1990s, Korea is not interested in establishing spatial framework because of industrialization-oriented land strategy. Absence of spatial framework makes unpredictable disaster and it retrieve sacrifice of people and loss of property. Some disasters make recognition that demands of system of spatial data and introduce national spatial framework like gas explosion of Ahyeon district in 1994 and Daegu city in 1995. To import and amplify national spatial framework, establishing spatial framework by 5-year per phase plan since 1995, and now it goes to fifth phase. National Spatial Framework project achieved to establish various geographical information database and expand businesses related with spatial information. But there are some problems. First, quality control of spatial information is insufficient in latest update and consistency. It doesn't satisfy demands of user. Second, access and retrieval of source data is difficult because exhibit of spatial information is passive. And last, spatial information is not considered to connected usage and it makes difficult to integrate. So, National Geographic Information Institute (NGII) of Korea provides frameworks of 5 core spatial information themes consist of Transportation, building, hydrography, administrative boundary and digital elevation model. These themes will be based of connected spatial information from 1/5,000 maps and providing locational and substantial reference system to integrating and using of spatial information. Finally, preventing duplication, increasing usability, establishing related data and sharing system was achieved by result of National Spatial Framework project.