GIS Application for Flood Assessment and Management.

Case Study Indonesia

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BACKGROUND

Indonesia geographic position which lays on the monsoon climate zone has constantly caused annual flood during the rainy season; and nowadays even unexpectedly occurred as well during the dry season.

Later on, the frequency of this annual flood get increasing significantly due to the changes in land use and hydrological cyclus

Regarding to that, a comprehensive information system is required to query, process and inventory the flood occurrence data to be further used as strategic information for decision-maker to take right action in managing the flood.
ACTIVITIES

Indonesia has been implementing GIS to build hydrological database, processing the data and information in order to prioritize the problem handlings occurred from the flood disaster.

One of the products that can be gained from the GIS implementation is the ready-to-use all hydrological information to be further disseminate and communicated among all related institutions.
FLOOD MAPPING
On River Basin

Map showing flood mapping on a river basin with various locations and water systems.
Flood Area Information
The development of flood database information system, which covered data collection from all Indonesia’s River Basin, will strongly support the decision-maker to make priority for managing flood risk.

The priorities are made in purpose of optimizing the allocation of financial and equipment as well the human resources
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