BUILD APPLICATION MAP FLOOD GIS
IN BADAN LINGKUNGAN HIDUP SURABAYA

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ABSTRAK

Surabaya as the second biggest city in Indonesia having about 3.5
inhabitant in area of around 320 Km² constantly faces more complex problem,
either in economy or social sector. One of them problem is the flood that has
been prioritized and partly solved, however the result has not been as
expected. As with UU No. 23/1997, UU No. 14/2008, PerPresNo. 85/2007,
the use of GIS map is a must, while in Badan Lingkungan Hidup of Surabaya
there has not been an application that can explain and represent flood areas in
digital form.

This research uses two spatial data models (vector and raster model)
and use ILWISS version 3.6 open source software. This application is
expected to assist in the process of data exchanging, digitation, editing,
analysis of flood risk areas in Surabaya.

In map raster : map administration, map geologi and map soil to do it
asumsi self, clasifikasi food, scorrning, kode map for analysis and do it overlay
with cross map. Out put cross map rater do it cross cek with map vektor and
out put is close true. For perfect analysis in the future need more database map
tematik else for do it overlay together.

Key words : build application map GIS with two spatial data models