FOSS4G2006 - Free And Open Source Softwa

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Development of User-Participation-type Communication tools for revitalization of local communities using MapServer

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Introduction
        Recently, making the hazard map, the region community map and etc by
collaborative work with
neighboring residents is popularly practiced as one of the approaches of the
anticrime activity and town
planning in our country. So, various regional information-sharing (neighborhood
reputation restaurant,
historic site spot and etc...) is proceeded. In this case, to support the development
of the region information
collecting and sharing system through the Net will provide effective method for
neighboring residents.
However, it is very difficult for the participation resident to construct the tool of
the information management
combined with map information such as GIS technology. Because, to develop the the
mapping  tool such as
WebGIS require high cost for software purchases and annual maintenance as well as
technical expertness and
know-how.

Poupose
        With these points as  background, in this study, we provide commuication
tools for collecting and
sharing various regional information using FOSS WebGIS and DBMS - MapServer and
PostgreSQL-.

Contents
        Users have access to advanced mapping systems as GIS client on the Net using
MapServer. And  the
digital camera and GPS locator-equipped mobile-phone are combined as a data input and
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a transmission
device from the outside. The new POI(Point-Of-Interetst) data as regional information
and photographic
image of current situation that were collected by users with mobile-phone in hand are
sent to the database
server through the e-mail and these data are displayed on the GIS map in real-time.

Conclusion
        We can be achieved some merits follow through the development of the
communication tools baed on
FOSS. 1. The neighboring residents collecs the latest information change from day to
day , and they can be
shared on the Net. 2. This communication tools can be expected to lead to the
community strengthening in
the region as one of the new media. 3. GIS software introduce and maintenance cost
reduction for users.
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