Using Open Source GIS to Develop Interactive Maps for Our Qiantang River

Hao Xin
Hangzhou

Most beautiful city in China
Qiantang River Bridge
First Chinese-designed Modern Bridge

Six Harmonies Pagoda
Long History  Profound Culture
World's Longest Bridge
Hangzhou Bay Bridge
Environmental Disaster
China's Most Economically Developed Region
Why We Need Maps
Trend I: Specialization

A type of map or chart especially designed to show a particular theme connected with a specific geographic area.
Trend II: Digitization

- Computerized maps are commercially available, allowing users to zoom in or zoom out (respectively meaning to increase or decrease the scale), sometimes by replacing one map with another of different scale, centered where possible on the same point.

- The map may also have layers which are partly raster graphics and partly vector graphics.
Trend III: Interaction

Search

View

Report

Analysis

Sites

Polygons

Waterways

Send reports via:
- mobile phone
- email
- web

New sites

Errors
Charleston Waterkeeper Case
Three Practices

Google My Maps

API - Customized Web Map

Ushahidi Platforms
Application I: Google My Maps

- My Hawaii Trip (June 2011)
- Chicago Conference (June 2011)
- Hangzhou Bicycle Map
- Chinese NGO Map
Application II: Google API Based Codes
Application III: Ushahidi

- The first Ushahidi platform was launched during Kenya’s post-election violence in January 2008. Ushahidi means “witness” in Swahili. The Ushahidi platform is free and open source.

- The software allows individuals and groups to collaborate in creating live multi-media maps for all kinds of projects. For example, the Ushahidi platform has been used for projects focusing on local governance, environmental monitoring, public health mapping, human rights monitoring, citizen-based election observation, nonviolent protests, disaster response and crisis mapping.
## Comparison

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Pollution Sites

可以通过那些方式报道灾情？
1. 发送短信至 0571-85900500
2. 发送邮件至 qtriver@gmail.com
3. 在网站上报道新灾情
Water Monitoring Sites

[Map with monitoring sites labeled in Chinese]
Create & Use

Open “crowdmap.com”

Sign up for free
Thank you!