Public Safety Map Service for Safer Korea

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I Introduction
II Trial Map Service Review
III 2nd year Project Overview
Map Service Demos
CHOLERA

- 19 Broad St London
- 128-3 Broad St London
- 33 Broad St London
- 14-17 Old Broad St London
- 78 Bishopsgate London
- 26 Throgmorton St London
- 55 Bishopsgate London
- 23 Austin Friars London
...
Map, Solution for Understanding Social Problems

An Easy, Simple and Powerful Tool, MAP!!
I. Intro.
Project Overview

Providing public safety info. to strengthen safety measures from various types of accidents and disaster events

Public Participant
Public Safety Map Service

Safety Management
National Safety Enterprise System

Diagnosis & solution
Local Safety Diagnostic System

National Safety Info. Integration
National Safety DBMS

Public data DB
Government Dept., NEMA, Police Agency, Local Government

Promoting level of regional safety management for Local Government

Safe & Secure Society!!

Act on Disaster and Safety Management National Affairs 92 National Safety Measures Plan Government 3.0
Project Organization Chart

General Project Manager

Ministry of Public Safety and Security

Project Manager

ndmi

Professional Agency

NIA

Contractor

CHUNG-ANG AEROSURVEY CO., LTD
Implementation Plan

- 2013 -

1st year project

- Setting up ISP (Aug. to Dec. 2013) -

2nd year project

- Building System & DB (Aug. to Dec. 2013) -

- 2014 -

- Service Trial Open (Sept. 2014) -

- Building System & DB (Mar. to Nov. 2014) -

- Map Service Open (Nov. 2014) -

Establishing Mid-long term Master plan (2013 to 2017)

Building 15 areas for 4 sectors

Building 15 regions for 8 sectors

Extending 115 regions for 4 sectors

(criminal, traffic accident etc.)

Map service open with PC web and mobile App.

- Project Briefing (3 times) -

- 2014.1 -

Project briefing for citizen (1 time)

- 2014.3 -

Workshop for 15 Local Go (1 time)

- 2014.5 -

Workshop for 115 Local Go (1 time)
II. Trial Map Service Review
Service Improvement Activities

Providing Advanced Map Service through Public Screening!

Project brief meeting (Oct./Nov./Dec., 2013)
- Concerns for stigma effect, property price down etc.
  Minimizing Side Effect!

Project Briefing for citizen (14.1.20)
- Requests for open time delay from Local Governments
  Adjusting Open Date!

Trial open of map service (14.2.28)
- Inconvenient, provider-oriented GUI
  Designing User-friendly GUI!

Workshop for 15 trial areas (14.3.18)
- Crazy map loading time~~
  Tiled Map Service!

Project brief meeting for 115 areas (14.5.27)
- Latest data-based map service?
  Updating Map DB!

HelpDesk activating (14.5-6.

[Image]
Minimizing Side Effect by Map Service with Sensitive Info. Clipping!

Before Editing

Map service with sensitive raw data

After Editing

Eliminating sensitive info. through overlay analysis with road layer
2 Main Improvements

Designing User-friendly GUI for Easy Understanding!

Initial GUI
Providing simple contents-oriented Info. GUI

Latest GUI
Providing story-oriented Info. GUI
Main Improvements

Promoting Service Performance with Advanced GIS tech. & Infra Integration

- Optimized Map service
  - Building basemaps through map tiling tech.
  - Promoting map loading time rapidly

- Effective System OS
  - System OS optimization
  - High Availability solution of map server for stable map service

- Adapting Vworld Maps
  - Providing basemaps with Vworld 2D&3D maps
  - Vworld online connecting using OpenAPI

To Be
(Dec. 2014)

As Is
(2013)

- Slight Layer Stack Overflow for Service
- Slow map loading time

- Optimized System Architecture to Trial Project
- Optimizing trial project

- Providing Basemaps with Vworld 2D Maps
- 2D map-oriented service
Main Improvements

Updating Latest DB to Provide Accurate Safety Map Service!

< Renewed 98 Map Layers to Jun. 2014 >

- Traffic accident
- Disaster
- Criminal
- Customized

- Landslide/Earthquake occurrence data
- Fire occurrence statistical data
- Traffic accident statistical data
- High-traffic accident occurrence area
- High-crime area for children
- High-crime area targeting at women...

...
Device-driven Map Service

Applicability to Any Device!
(PC Web, Mobile App.)
Ⅲ. 2nd year Project Overview
Broadening Service Regions

Building Expansively to 115 Local Governments!

4 sectors map service

- Traffic accident
- Disaster
- Criminal
- Customized

2013 project area
Starting 15 trial regions

2014 project area
Extending 115 regions - Dec. 2014 -
Expanding Map Service Contents

Developing Service Contents for Additional 4 Sectors!

Map Contents for New 4 Sectors

- Facility
- Industry
- Health & Food
- Accident

Target Area
15 trial regions
- Providing service on Dec. 2014 -
Establishing National Safety Map Platform

Providing OpenAPI-based Platform for National Safety Data Sharing!

Safety-monitoring Corps (online connection on Dec. 2104)

NGO

- Safety info. reporting

Public Sector
- Public safety data

Private Sector
- Service contents

Academy
- Research report

Citizen
- Community mapping activities
Map Service Demos
Map Service Demos
Map Service Demos

- Traffic Accident Map Service
- Disaster Map Service
- Criminal Map Service
- Customized Map Service
Further Plan

A Powerful Tool for Solving Social Problems, MAP!!

Nation-Wide Service Expansion

15 regions ➔ 115 regions ➔ Whole country

Project & Policy for Safer Society

Build safer KOREA together, Public Safety Map!

Danger  Safety
Question & Answer
Thank You