Safe Life, Safe KOREA!!

Public Safety Map Service for Safer Korea

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AGENDA

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

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Map, Solution for Understanding Social Problems

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

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

Public Participant

Public Safety Map Service

National Safety Info. Integration
National Safety DBMS

Safe & Secure Society!!

Promoting level of regional safety management for Local Government

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

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

Diagnosis & solution
Local Safety Diagnostic System

Safety Management
National Safety Enterprise System
Project Organization Chart

General Project Manager
Ministry of Public Safety and Security

Project Manager

ndmi
NATIONAL CREATIVE MANAGEMENT INSTITUTE

Professional Agency
NIA
NATIONAL INFORMATION SOCIETY AGENCY

Contractor
CHUNG-ANG AEROSURVEY CO., LTD.
Implementation Plan

-2013-
- Setting up ISP 
- 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.

2013 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)
- Project Briefing for citizen (14.1.20)
- Trial open of map service (14.2.28)
- Workshop for 15 trial areas (14.3.18)
- Project brief meeting for 115 areas (14.5.27)
- HelpDesk activating (14.5-6월)

Concerns for stigma effect, property price down etc.

- Minimizing Side Effect!

Requests for open time delay from Local Governments

- Adjusting Open Date!

Inconvenient, provider-oriented GUI

- Designing User-friendly GUI!

Crazy map loading time~~

- Tiled Map Service!

Latest data-based map service?

- Updating Map DB!
Main Improvements

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
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

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**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
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Device-driven Map Service

Applicability to Any Device!
(PC Web, Mobile App.)
Ⅲ. 2nd year Project Overview
1 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
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
Thank You