Alice platform Introduction

SmartcityKorea Inc.

01

Alice Introduction

Smart City IOC Platform

Platform for the City
Platform for the People

Alice is an integrated platform for comprehensive management used by the Smart City Integrated Control Center, and is an infrastructure solution that connects unlimited number of city management solutions, and immediately responds to and manages disaster and emergency situations in the city through favorable exchange with government sites. It is also a solution that efficiently delivers collected data to citizens and visitors as mobile services and communicates with them.

For example, urban prevention, traffic conditions, current status of energy (power, gas) use, climate and environmental information, parking problems, smart street lights, network security, healthcare, various IoT sensor information, water and sewage treatment, waste disposal, We'll efficiently process drone camera information, information coming from citizens, and information coming from other government agencies.

Better cities by managing stored big data or having predictive preventative effects through analysis. So the ultimate goal of this platform is to provide citizens with a more convenient urban environment

Smart City IOC Platform

Korea Telecommunications Technology Association (TTA) Certificate

Good Software 1 grade Certification

Alice Smart City Platform Architecture
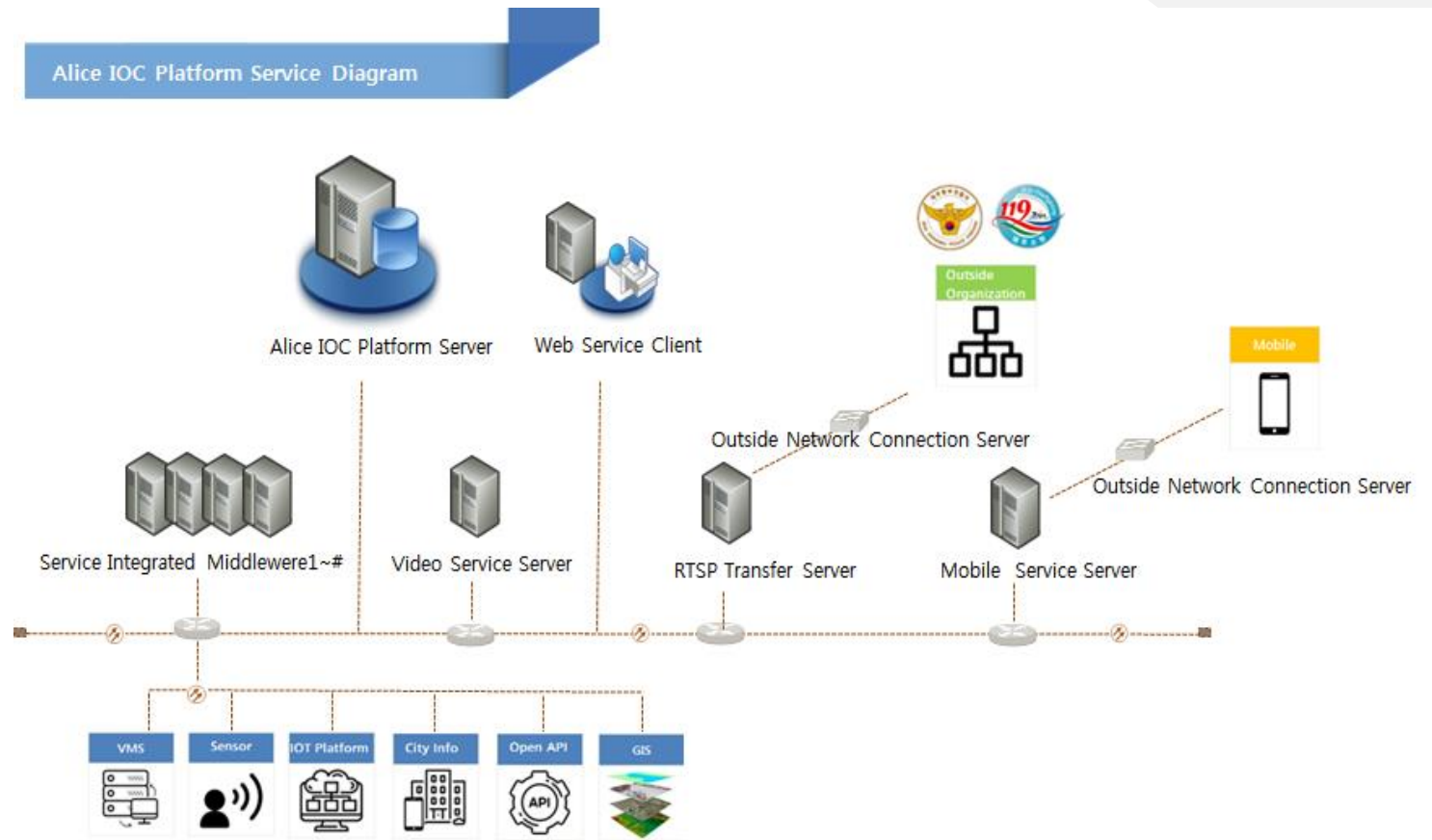
Smart City Platform

Alice is Any Openness and Any Interoperability,
Work for the open value of Any Customization.

Alice Smart City integration platform is located in Web Service Client(Presentation Layer) and IOC Platform Server. It consists of an Service Integrated Middleware server (communication/site device middleware) for information connection with external agencies and a CCTV Video Service server. Also RTSP transfer server as well.

The Middleware server and the Video service server are connected by DB the connection information between the existing system and the associated agencies, including Police station, Fire Station, etc.

Provides disaster information with related agencies and connection information including CCTVs to the Web Service Client Layer.

For the citizen service and video notification to the manager, Mobile Service server is needed.

Alice IOC Platform Service Diagram

- Alice IOC Platform Server
- Web Service Client
- Service Integrated Middlewere1~#
- Video Service Server
- RTSP Transfer Server
- Mobile Service Server
- Outside Organization
- Outside Network Connection Server
- Outside Network Connection Server
- Mobile
- VMS
- Sensor
- IOT Platform
- City Info
- Open API
- GIS

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Alice Smart City Platform Features

interoperability	UX/UI Customization	Flexibility	Automaticity

UX/UI Customization
Visualization | Structuration | Story / Scenario

Flexibility
Existing vendor UI/UX

Alice UI/UX

Alice has excellent interoperability with other types of systems and integrates data that are scattered such as CCTVs, systems, and sensors. Configures interoperability for seamless control
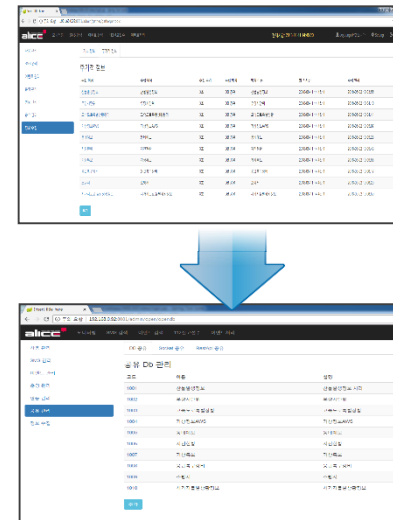
Alice can create multiple information icons on the MAP that can be sorted according to different situations and customer needs.

Express by platform user settings
User wants besides UI
The screen is displayed on each site.
Optimized for Customization
Control screen provided
.

Collect and share linked solution DB. Bigdata collection support, ensuring automatic event handling.

Alice Smart City Platform Web Viewers

Integrated Sites

Fire Station	Police	Related Org.

CCTV

IOT Sensor

FMS
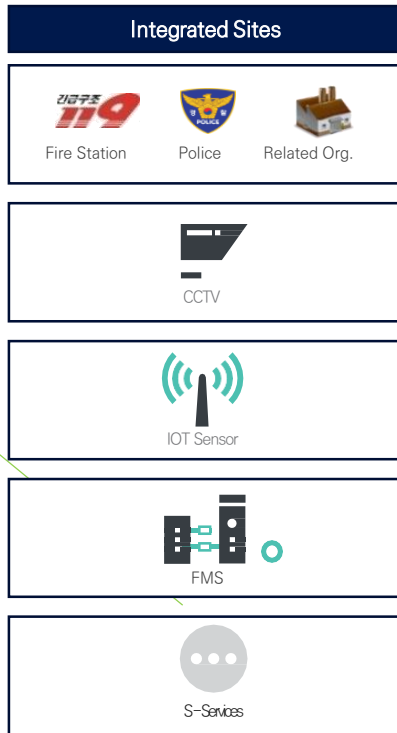
S-Services

Any Solutions
S-service
Sensor
Management

alice

Display / Control

Data Base / Management

Integrated / Interfaced

Total Integrated Monitoring Viewer

Login

Main Viewer

Mobile Viewer

Main Viewer

02

Alice operating method

Smart City IOC Platform

Alice Smart City Platform Operation Plan

SMS Notifications

Alice Smart City Platform

Presentation area(Service management area)

Internal Management Module
- User management
- SOP management
- License
- Performance management

Service Expression Module
- Web server
- App/Device
- WEB

Master server Layer
- Internal Server Module
- interface module

WAS (Tomcat 8x) , JSP, Servlet, Framework, JDBC, DM(Maria DB)

- Broker server
- Proxy server

- S-service GIS server SMS , E-mail
- DB Link GIS Link
- Video content CCTV camera

Data transfer

Integrated Control Expression

Uniform Integrated Expression

Uniform screen display

Express all linked solution information

Real-time event information, such as alerts

Control / Management / Operations

Interlocking linkage
Data analysis
Expression
Situation propagation

Location Based Information Dissemination

CCTV, EMS, ITS, Smart Street Lights, Environmental Sensors, Digital Signage, Access control, parking control, facility management, safety devices, tags, alarm sensors, etc.

Alice Smart City Platform Application Area
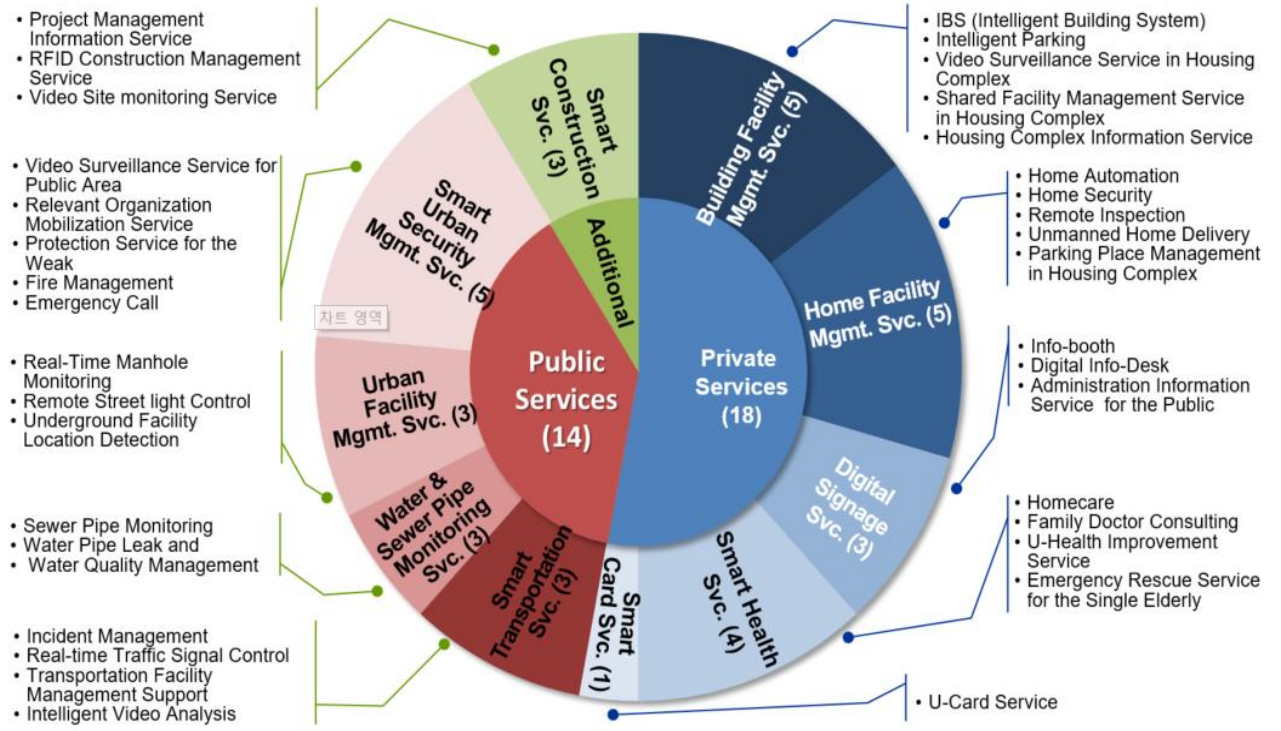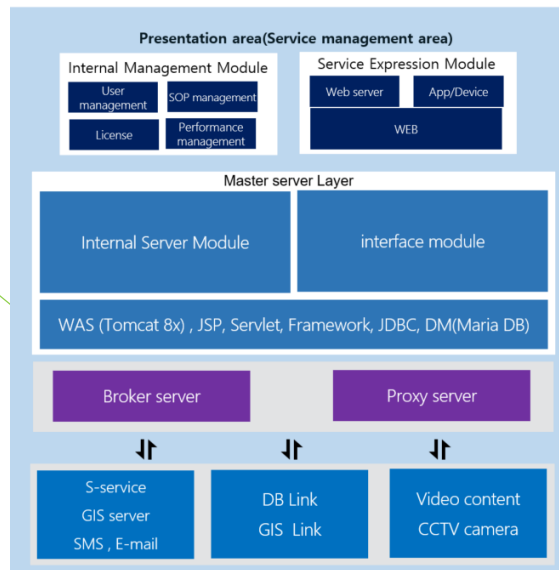
Alice Smart City Platform Expansion Plan

Enter and add licenses in Store

→ Various linked services or solutions can be expanded by adding licenses in the store

Future Cloud-based services available for Living Labs

Alice Smart City Platform Screen Configuration (Example)

Initial Main Screen

Expression Icon

Service presentation bar
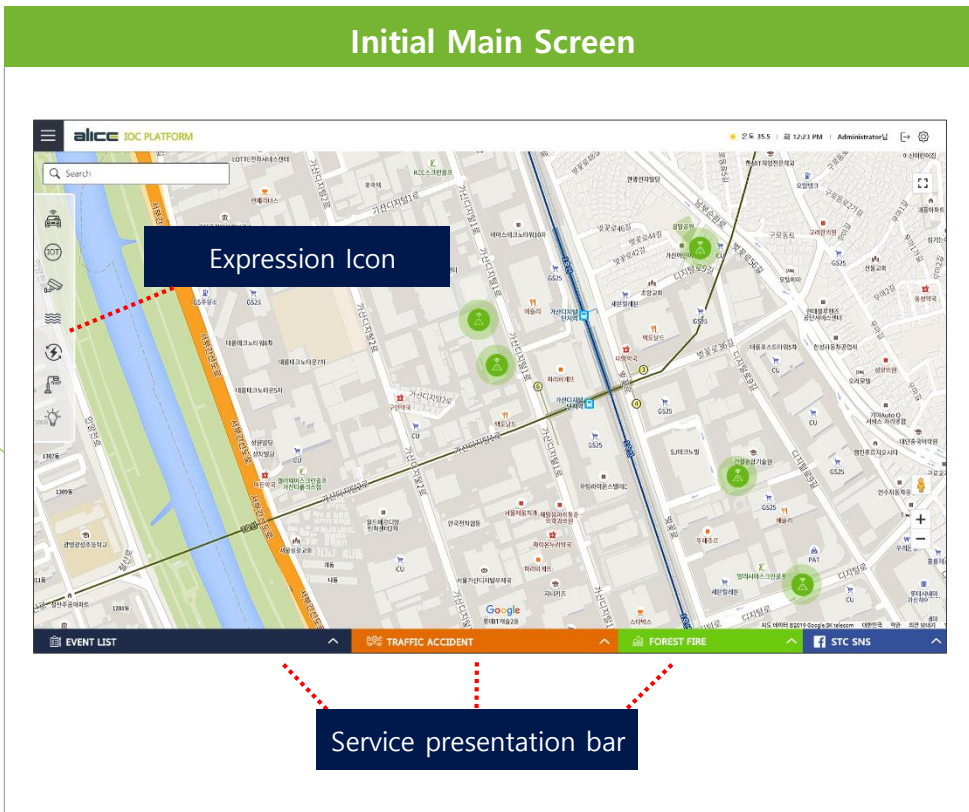
Operations Management Screen

CCTV control screen

Event List · Statistical graph · APP Link Viewer

Alice Smart City Platform SOP Operations

Standardized business procedures (SOPs) can be established for users in all areas

→ **Event handling environment according to operating procedure (SOP)**

SOP Report

Add SOP

SOP Service

03

Alice Mobile Service Platform

Smart City IOC Platform

03. Alice Mobile Platform

Smart city Platform

Alice Mobile Service Platform

introduction | **Alice Smart City Platform Mobile App.**

alice M

Smart City Mobile Platform

Received all events through Alarm push service
→ **Live video monitoring with connected CCTV Camera**
→ **Integrated 3rd services data supporting**
→ **Single App. supports integrated multi-App supporting**

03. Alice Mobile Service App.

Smart Service Solution
Smart Service Mobile Application

introduction | **Smart Service Mobile Application**

SecuCat

Emergency Signal Mobile App.

SecuCat is a smart phone application. When a registered user sends an emergency signal, the integrated control center receives the location information of the mobile phone, checks the surrounding CCTV, and dispatches the police to help.

It can be operated in connection with the CCTV integrated operation center, and it can also be automatically contacted to registered police stations and guardians.

Main UI

Management Viewer

- Emergency Signal use

- Movement Routine
- Center Operation S/W

04

Alice expectation effect

Smart City IOC Platform

Alice Smart City Expected Effects

01
Return on investment

- Implementing smart city services ensures a clear return on investment
- Profitability of Dongtan Smart City → Rate of return on investment 157%

02
cost reduction

- The introduction of smart city systems minimizes operating costs 10% reduction in overall operating costs through system deployment operations

03
Rise in value

- Increase asset value and market impact
- Through the smart city system 10% increase in the value

04
security assurance

- Ensuring the Safety of Urban Crimes
- Secure citizens' safety by preventing crimes with smart city service in Gangnam-gu

All services related to the city can be linked

An open platform that allows any service or solution of any other type to be linked
→ **All solutions related to the city are integrated.**

Openness　　　**Integrity**　　　**Flexibility**

City, transportation, security, water and water supply.

power supply, distribution, power generation

railway, telecommunications, infrastructure

Airport, passengers, operations, ports

Factory, Manufacturing, Safety, Access Control

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05

Alice Deployment Case

Smart City IOC Platform

Project for the establishment of a platform for flood control station in Nakdong River
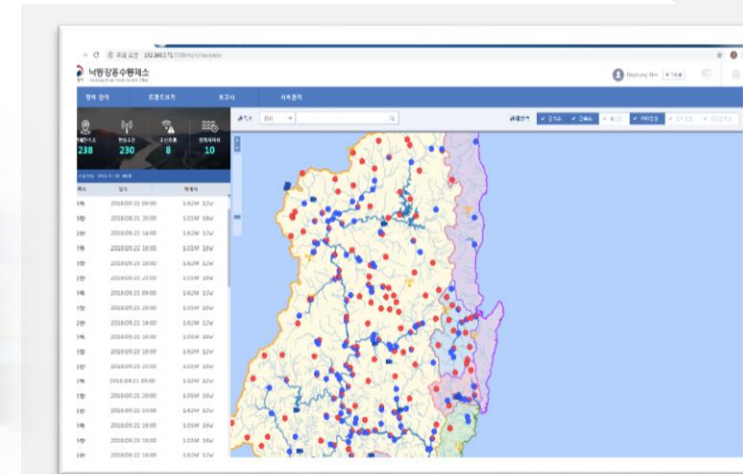

Nakdong River Flood Control System Main Screen

Business content

- platform establishment
- System integration (flood control station)
- Water level and rainfall data interworking and CCTV images displayed
- Support various reports and associated DB output and management

Key Products and Solutions

- Integrated platform
- water level measurement sensor
- Rainfall measurement sensor
- CCTV (water level observation)
- GIS Server Interworking

water level variation measuring system by period

Jeju Island Smart City Platform Establishment Project

- **Jeju Smart City Platform Main Screen**

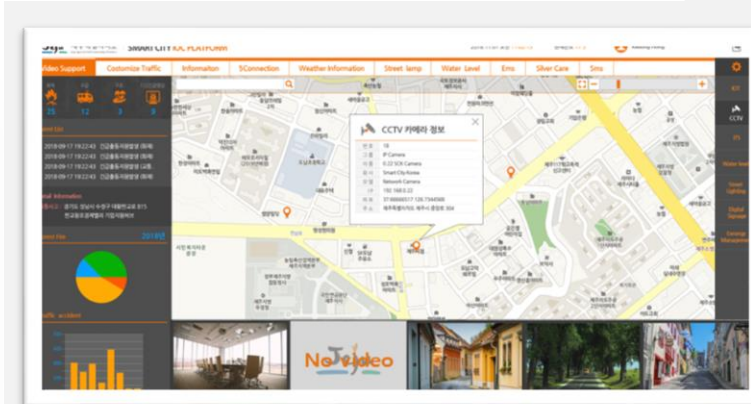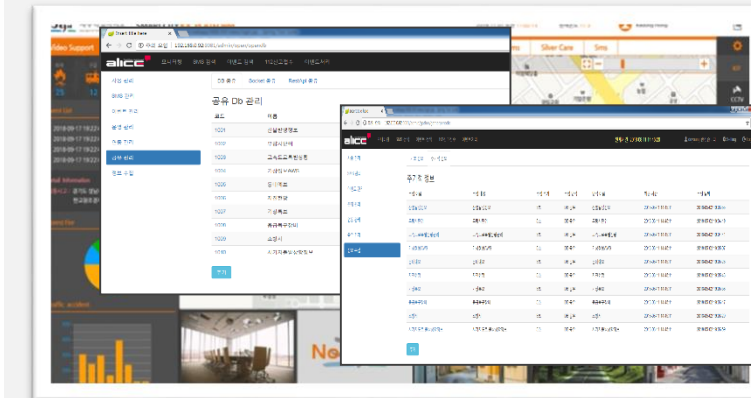- **Jeju Smart City Platform Data Collection Screen**

Business content

- Project to install Smart City Platform in Jeju Island
- Jeju Island, Jeju City and Seogwipo City Control System Integration
- Top 5 Link Service

Key Products and Solutions

- Integrated platform
- Integrated Platform Specification H/W , S/W
- CCTV VMS Interworking (more than 6,000 VMS cameras from 3 other models)
- Smart City City Urban Association Top 5 Link Service Package
- Jeju Tourist Emergency Rescue Notification Service
- New GIS

Integrated Platform in KT Underground Utility Tunnel

Smart Platform in KT | **Underground utility tunnel Monitoring Platform implement project**
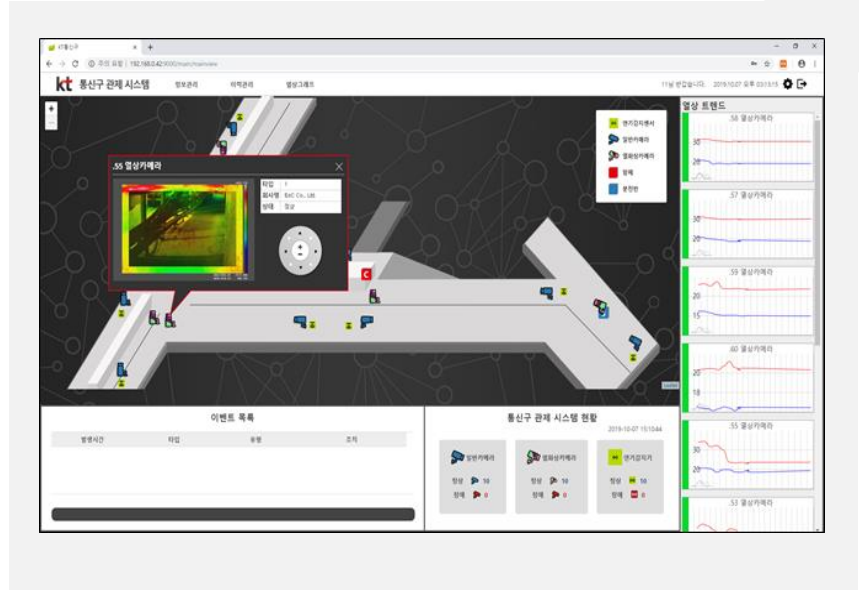

Business content

- Project to install Smart Platform in KT underground utility tunnels
- KT communication cable, Military communication cable utility monitoring System
- Event alarm Service

Key Products and Solutions

- Integrated platform
- Integrated Platform Specification H/W , S/W
- CCTV VMS integrated
- IOT sensors integrated with thermal cameras
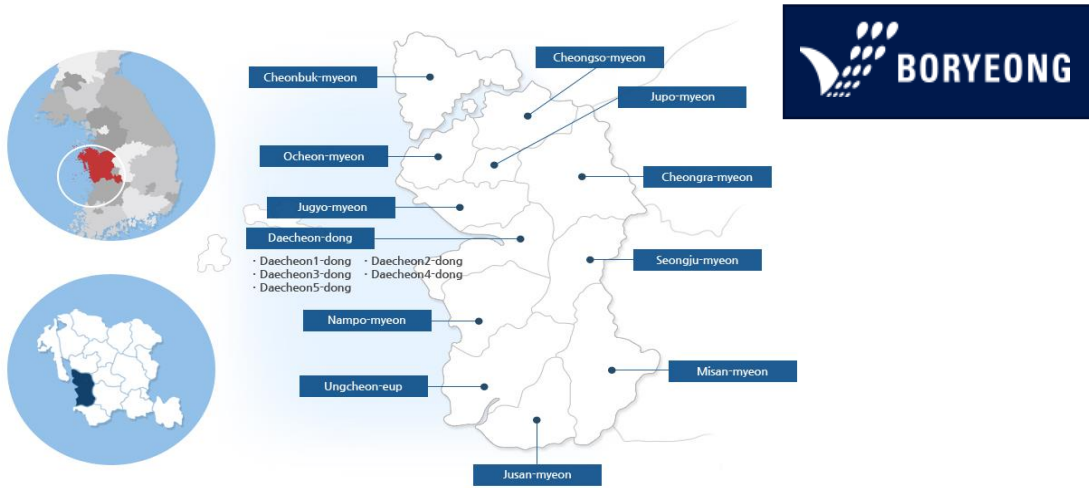- Event Notification Service
- New 3D map viewer applied

Integrated Platform in Boryeong city Early Warning System

Smart Platform in Boryeong City | **Early Warning & Monitoring Platform implement project**
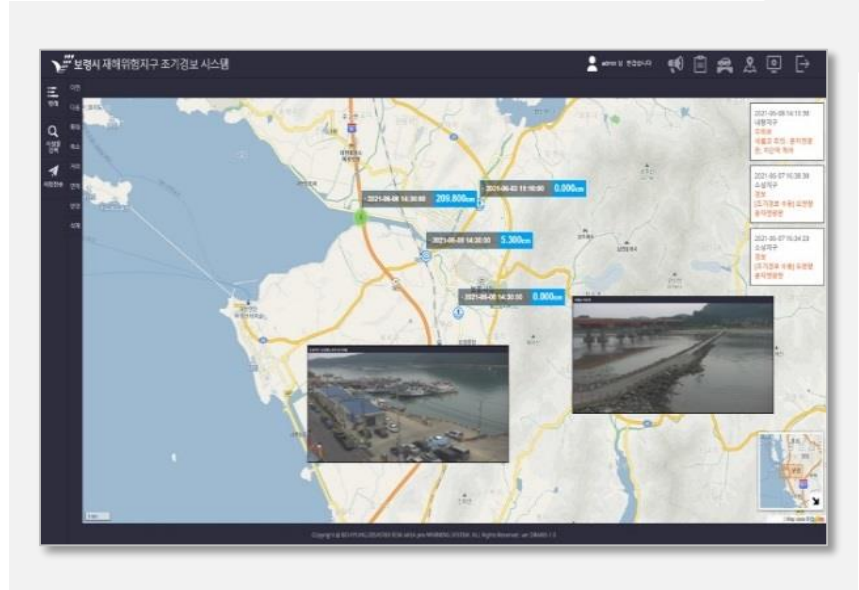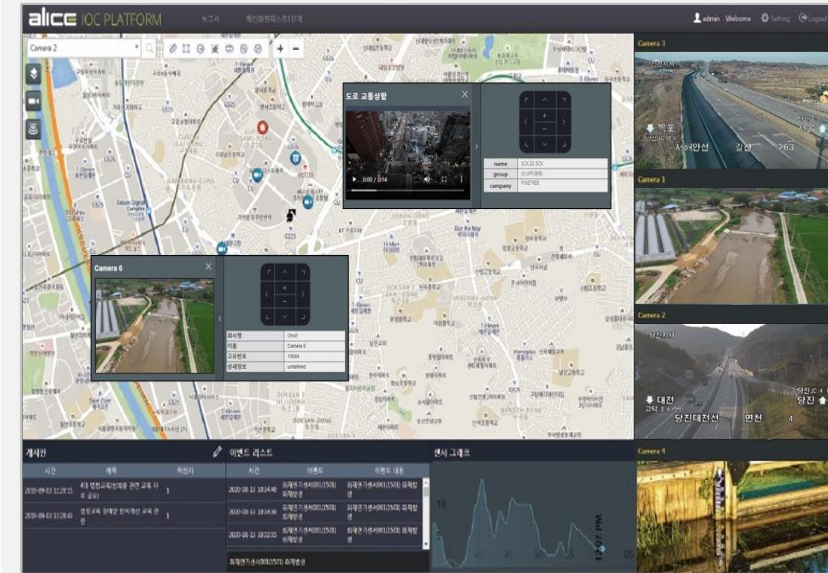

Business content

- Project to install Smart Platform in Biryeong City Monitoring Center
- GIS based water level, rainfall data integrated with platform
- Event alarm Service

Key Products and Solutions

- Integrated platform
- Integrated Platform Specification H/W , S/W
- CCTV VMS integrated
- Water Leve, Rainfall sensors integrated
- Local Broadcasting system, Media wall integrated

Integrated Platform in Chungcheongnam-Do

Smart Platform in Chungcheongnam-Do │ **Smart city Platform implement project**

Business content

- Project to install Smart Platform in Biryeong City Monitoring Center
- GIS based water level, rainfall data integrated with platform
- Event alarm Service

Key Products and Solutions

- Integrated platform
- Integrated Platform Specification H/W , S/W
- CCTV VMS Interworking (more than 25,000 VMS cameras from 5 other models)
- Smart City City Urban Association Top 5 Link Service Package
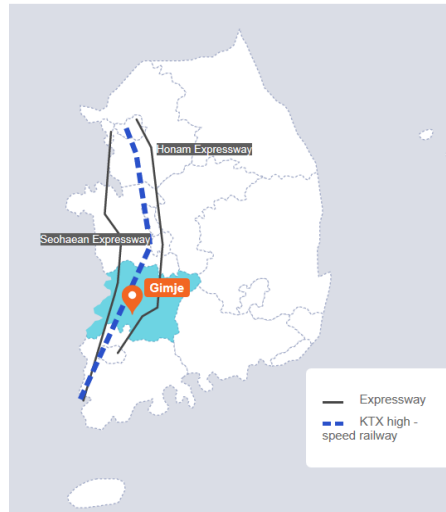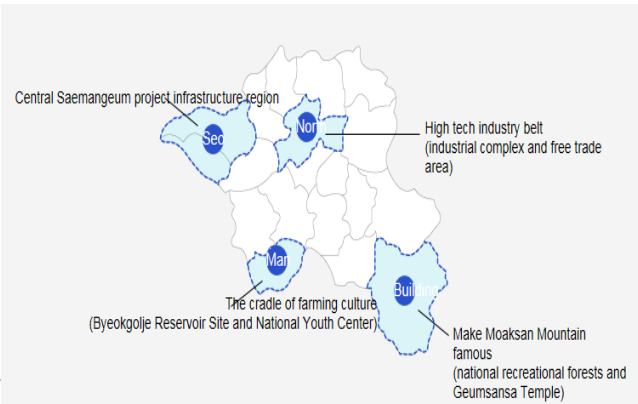- S-Services integrated, Mobile App. integrated
- New GIS

Integrated Platform in KimJe city Special Vehicle Monitoring

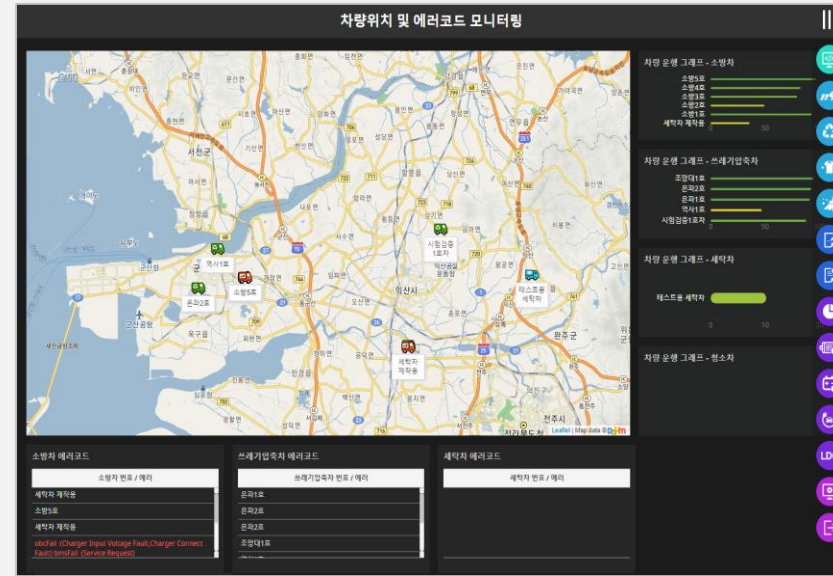**Smart Platform in Kimje city** | **Smart city Platform implement project**

Business content

- Project to install Smart Platform in Kimje City Monitoring Center
- GIS based special vehicle location in other data integrated with platform
- Event alarm Service

Key Products and Solutions

- Integrated platform
- Integrated Platform Specification H/W , S/W
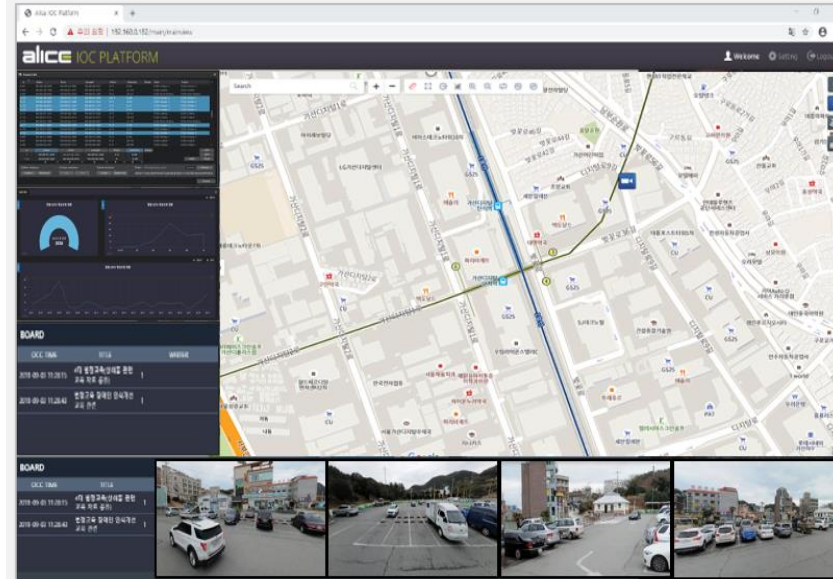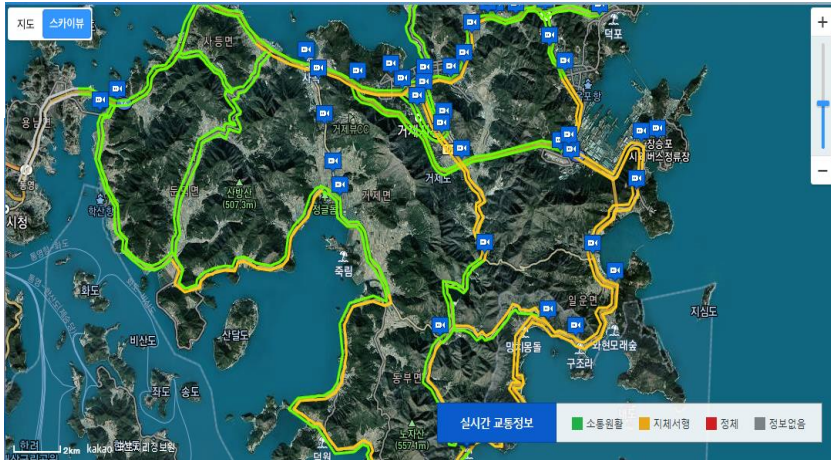- Vehicle status Interworking
- Reports and DB management
- New GIS

Integrated Platform in Geoje city Senior Health care Monitoring

Smart Platform in Geoje city | **Smart city Platform implement project**

Business content

- Project to install Smart Platform in Geoje City Monitoring Center
- GIS based senior health care devices (Blood pressure, Heart bite, etc.) location in other data integrated with platform
- Event alarm Service

Key Products and Solutions

- Integrated platform
- Integrated Platform Specification H/W , S/W
- Location info, ID info, Blood pressure & Heart bite Data status Interworking
- Vehicle parting management with Video Analysis
- Reports and DB management
- New GIS

Integrated Platform in Dobong-gu Ward Office

Smart Platform in Dobong-Gu Office | **Bigdata Platform implement project**
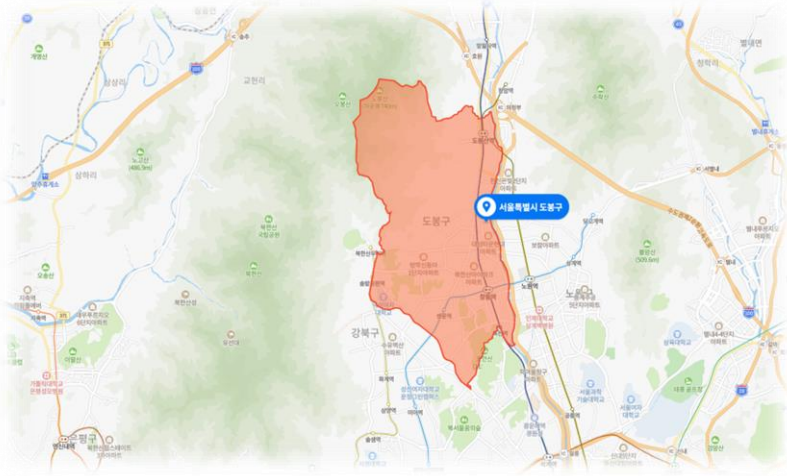
Business content

- Project to install Smart Bigdata Platform in Dobong-gu office Monitoring Center
- Bigdata collection and monitoring with platform
- Graph display & state and event display. Various reports and related DB output and management support
- Support for providing and expressing big data information to the digital ward mayor's office

Key Products and Solutions

- Integrated platform
- Integrated Platform Specification H/W , S/W
- Smart crosswalk/ Illegal parking for disabled people/ Illegal parking in electric charging areas/ Indoor air quality/ River usage/ Smart trash can/ Gas sensor in confined areas
- New GIS

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Integrated Platform in Nakdong River Monitoring Center

Nakdong River Project 2022Y │ **Project for upgrade of a platform for flood control station in Nakdong River**


Business content

- Platform establishment 2022Y
- System integration (flood control station)
- Water level and rainfall data interworking and CCTV images displayed
- Support various reports and associated DB output and management

Key Products and Solutions

- Integrated platform (CS based integrated platform)
- Total DB integrated
- River video surveillance / electronic sign board / image / video water level / indoor / smart CCTV
- PTZ Control / Smart CCTV On/Off Control
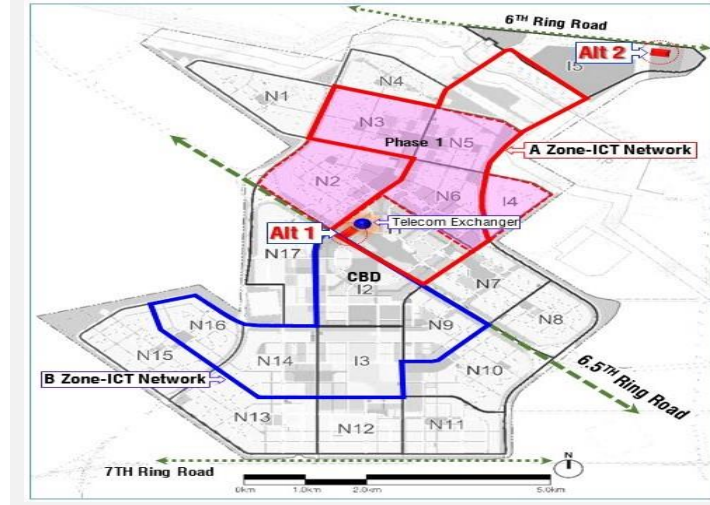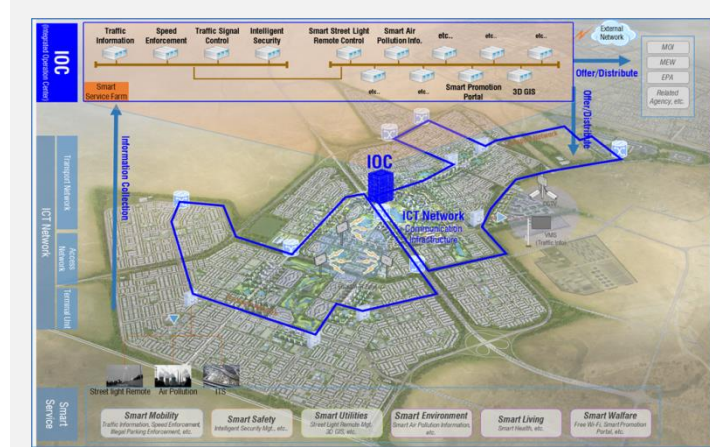- GIS Server Interworking

14
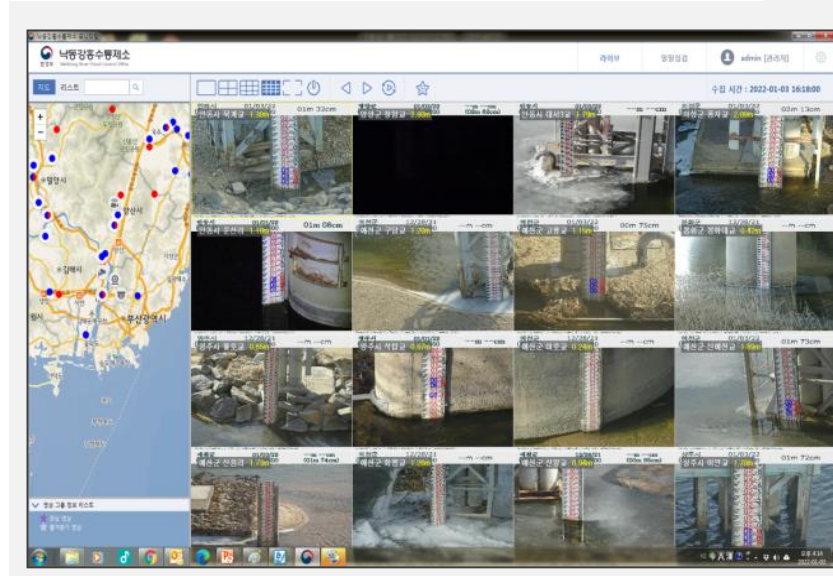
A Plan to Develop Smart City Center in Kuwait

Smart City in Kuwait | **South Saad AL Abdullah Smart city project in Kuwait IOC platform Design**

- IOC location evaluation
- Integrated system and components design
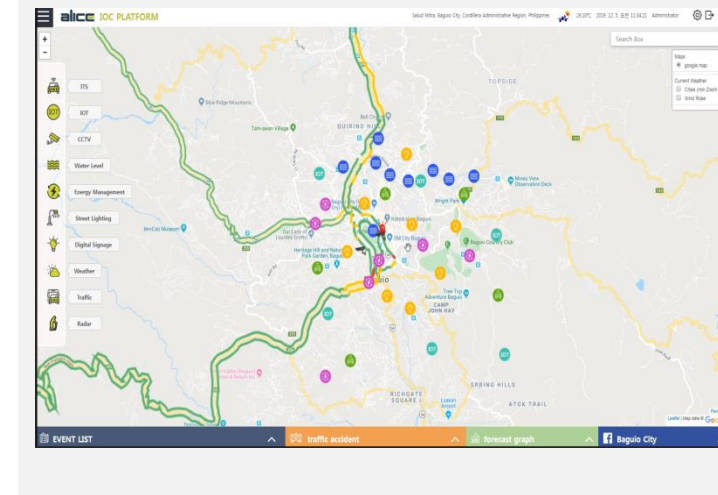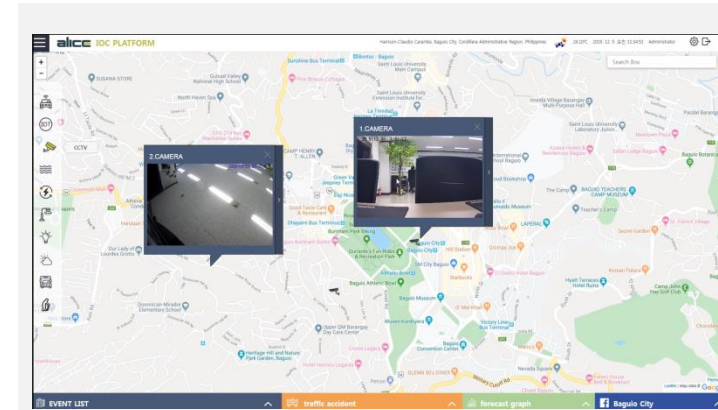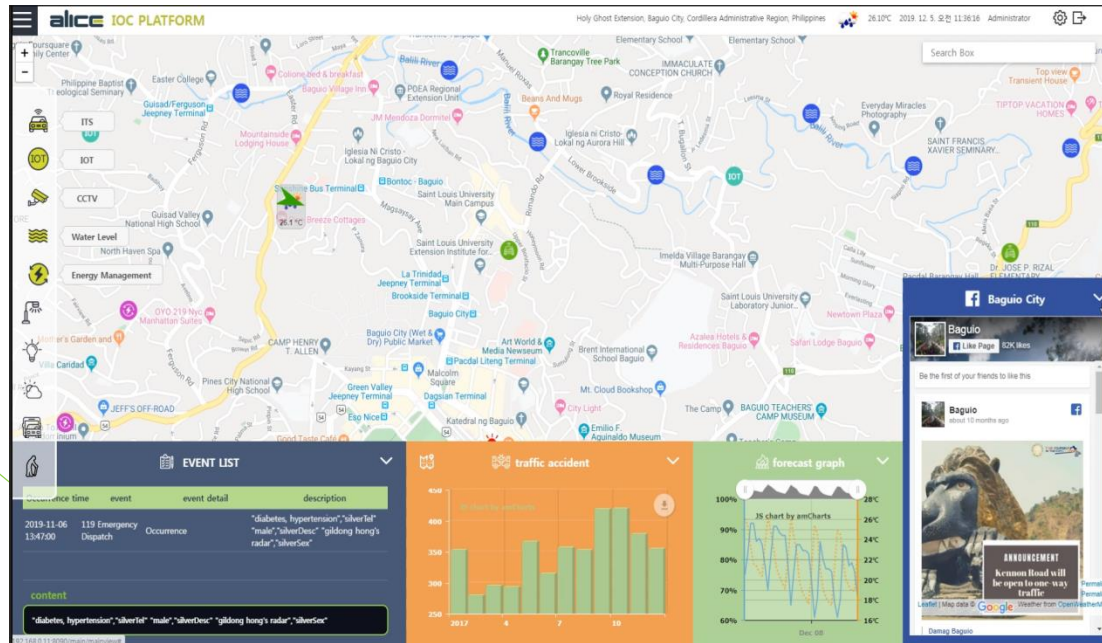- Integrated platform implementation plan and required function definition

Key Products and Solutions

- SCK Alice integrated platform is recommended
- Platform system configuration and specs requirement H/W , S/W
- Platform and GIS linking plan
- Common DB configuration and design
- System Security design

A Plan to Develop Smart City Center in PHP

Smart City in Philippines | **Baguio City in PHP smart city Platform designed and proposal**

Key Products and Solutions

- SCK Alice integrated platform is recommended
- Platform system configuration and specs requirement H/W , S/W
- Platform and GIS linking plan
- Fire sensor & Air pollution management sensor linkage
- LPR camera and Security VMS integrated design

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Thank You.

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