Reassuring citizens beyond safety

Smart & Safe City, Seoul
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Facilities
Integration of control functions through inter-organizational sharing and cooperation realizes a safe and strong city for citizens and against crisis.
Sharing and cooperative space creates **budget cuts** and **synergy effects**.

Integration of **3** dispersed functions ➔ **Annual saving of 900** million won

**Expected Effects**
Integration of functions **minimizes social costs** (victims and property damages)

Y 2010, Seoul, Disasters **96,243** cases
  - **Casualties 60,429** Property damages **69.5** billion won

Y 2010, Traffic Fatalities **427**
  - Traffic Congestion Costs **8.5** trillion won
Integrated establishment of urban management control tower realizes

Smart Safe City

**Strengthening Actions**
- Disaster scene video relay, sharing, support decision-making

**Citizen Participation**
- UCC: SNS/Blog, Mobile
  - Diversifying citizen participation channels

**Notifying Situation**
- DMB, CBS, E-board
  - Notifying disasters, traffic info to citizens

**Data Collection/Analysis**
- Real-time collection/analysis of weather info, e.g., rainfall, snowfall

**Situation Monitoring**
- Sharing CCTV info with districts/agencies, surveillance of vulnerable areas and traffic

**Liaison with Relevant Agencies**
- Weather Center, Forest Service, Emergency Agency, 119, etc.

**Disaster scene video relay, sharing, support decision-making**

**Diversifying citizen participation channels**

**Notifying disasters, traffic info to citizens**

**Real-time collection/analysis of weather info, e.g., rainfall, snowfall**

**Sharing CCTV info with districts/agencies, surveillance of vulnerable areas and traffic**

**Weather Center, Forest Service, Emergency Agency, 119, etc.**
Project Outline and Background
Overview of Seoul Safety Control Center

<table>
<thead>
<tr>
<th>Location &amp; Size</th>
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<tbody>
<tr>
<td>Location: B3 of the building</td>
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<tr>
<td>Size: 472 m², 112 seats</td>
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<tr>
<th>Construction Period</th>
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<th>Project Cost</th>
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<td>5.2 billion won</td>
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Details

- **Integration of disaster, traffic and chungmu control center** (server, network and video equipment)
- **Integration of CCTV digitals for control** (817 No in total of Police, Facilities Management Corporation, Disaster Management, Traffic Information Center, etc.)
- **Real-time linkage between integrated control center and field** (helicopter, mobile command center, portable video system)
- **Videoconferencing system** (city-government/city-district/control center-mobile command center)
Process of sharing and cooperation for integrated control center

1. Established a plan for disaster control center relocation
   Apr. 2011

2. Project kick-off
   Dec. 2011

3. Decided functional integration and location change of control center
   Jun. 2012

4. Changed building design
   Jul. 2012

5. Construction completed
Comparison of Control Center (before/after)

| Previous Control Center |

Disaster
In Seoul EOC

Traffic
In Jongno Fire Station

Chungmu
In Namsan Fire Protection & Disaster Headquarters

Seoul Safety Control Center (since 2012)
Functions and Operating Plan
Constant monitoring of extreme rainfall or snow followed by prompt alert

- Emergency monitoring 24 hours and 365 days, and prompt forecast/alert
- Step-by-step emergency management agency operations, controlling and taking actions against disasters, and commanding recovery operations (17-53 staffs by phase)
Real-time monitoring of traffic conditions, and changing to support system in case of disaster

**Normal Operations**
- Analysis/provision of traffic condition monitoring info

**Traffic Emergency**
- Video monitoring of road restrictions

**Disaster**
- Disaster response support

Parking car enforcement cameras to be used as disaster management
War management in case of emergency, ensuring the safety of Seoul

Normal operations: Situation analysis and support in decision making
- DID / Beam Projector
- CCTV Linkage
- Integrated Control System

Emergency: Maintaining situation and support in military operations
- Videoconferencing System
- NBC Protection Facilities
- EMP Equipment
Correlated response in case of simultaneous crises

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<th>Normal Operations</th>
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<tr>
<th>Emergency</th>
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<tbody>
<tr>
<td>Disaster Stages 1,2</td>
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<td>Disaster Stage 3</td>
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Multi-functional video system sharing in case of complex situations

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<tr>
<th>Disaster Video</th>
<th>Video Sharing</th>
<th>Traffic Video</th>
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<tbody>
<tr>
<td>▪ Principal rivers/bridges</td>
<td>▪ GIS info / traffic info</td>
<td>▪ High speed roads</td>
</tr>
<tr>
<td>▪ Inundated/snow areas</td>
<td>▪ Cars on road, aircrafts</td>
<td>▪ Principal arterial roads and tunnels</td>
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Facilities
Flexible space is designed to strengthen inter-organizational cooperation and effective response

- Total Size: 472m²
- Total Seating: 112 seats

**Disaster Control Room**
- Disaster Situation Team of Urban Safety Div.
- Monitoring disaster situation 24 hours a day

**Video Equipment Room**
- Urban Safety Div.
- Maintenance room for video and communication equipment

**Operating Room**
- Traffic Information Team of Traffic Info. Center
- System operation and maintenance

**Main Room (Common)**
- Traffic condition monitoring
- Disaster Safety Countermeasures HD in case of emergency
- Ulchi Exercise

**Multi-Zone (Common)**
- Emergency countermeasures meeting
- Briefing for the press and visitors, field trip
Situation and stage-specific staff deployment and space utilization
Introduction of cutting edge infrastructure and equipment for optimal response to various crisis situations

- Linkage and integration of 817 CCTVs of 5 agencies in the city
- Top-spec display board
  “70 inch Cube X 21No / 46 inch DID X 24No”
- Real-time emergency monitoring, quick response
  “Mobile Equipment Linkage and Field Videoconferencing”
Seismic special class, NBC protection 1st class, eco-friendly materials

- Eco-friendly environment for staff working 24hours
  - Lighting and ventilation enhanced
  - Eco-friendly materials e.g. birch

- Seismic special class, NBC protection 1st class
  - Interior planning against earthquakes, NBC
Ensuring safe living of Seoulites

Seoul Safety Control Center
will keep the safety of Seoul.