Disaster Information Management System and ASEAN wide-range cooperation with ICT

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NTT DATA CORPORATION
Regional Business Sector

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1. (output) ASEAN Regional Disaster Management System

AHA Centre promotes wide-range cooperation within & outside the region in the event of disasters.

WebEOC®

System to support appropriate disaster response by sharing, understanding & analysing the emergency/disaster situation throughout the region on the web.

※WebEOC : Web Emergency Operation Center
2. (output) Japan-ASEAN Public-Private Partnership Committee - Feasibility Study in Vietnam

- Improvement of Urban Environment
  - Hanoi
  - (Mekong region)/【Hanoi】
  - (Mekong region)/【Thang Long】
  - Energy Information
  - Equipment Operation Info
  - Security Information

- Water Resource Management
  - (Mekong region)

- Improvement of Efficiency of Logistics and Distribution
  - Da Nang
  - (Mekong region)/【Da Nang】
  - Logistics Information

- Disaster Prevention and Response to Disaster
  - Can Tho
  - (Mekong region)/【Can Tho】
  - Disaster Related Info

Visualization of model for gathering/analyzing diverse sensing info in several locations

Telecommunications network in rural areas, cloud computing center
3.(output) Japan-ASEAN Public-Private Partnership Committee - Feasibility Study in Indonesia

Data Gathering

Sensor Network System
- Water Level Sensor
- Flood Footage
- Weather Information

Information Sharing, Processing/Analysis, Support of

Cloud Data Center
- River stage Information/Precipitation Information of Various Area, etc.
- Surveillance footage
- Satellite Image and Weather Information
- Data Center

Distributing Information to Residents

Disaster Prevention Information Delivery System
- Rural Region ICT projects (USO Project, etc.)
- Satellite
- Rural Region
- Flood Information/Weather Information
- Mobile digital TV
  At Maluku Selatan Batang Lomang Batu taga

National Spatial Data Infrastructure (NSDI)
4. (background) Japan-ASEAN Public-Private Partnership Committee

**Objective**

The goals were the greater promotion of cooperation between the public and private sectors in international ICT deployment for ASEAN member nations, and the strengthening of ties between Japan and ASEAN member nations.

The Council has three Study Groups on individual topics including disaster management system.

**Study Group on ICT for Disaster Management**

Disaster management system utilizing ICT is now playing an important role to reduce human and economic losses in Japan, which is vulnerable to natural disasters such as earthquake, tsunami, typhoon.

Based on such experiences and knowhow to develop and operate ICT system, we are discussing substantial proposals in accordance with situations and demands of each ASEAN countries.

**Member**

18 entities participating

<table>
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<tr>
<th>Japan Radio Co.Ltd.</th>
<th>Hitachi Kokusai Electric Inc.</th>
<th>NEC Corporation</th>
<th>Asian Disaster Reduction Center</th>
<th>Keio University</th>
<th>FUJITSU LIMITED</th>
<th>National Institute of Information and Communications Technology</th>
<th>Pantel Corporation</th>
<th>NTT Communications</th>
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【Organization】

- E-Government
- ICT for Disaster Management
- Sensor Network
5. (background) Japan-ASEAN Public-Private Partnership Committee - Cases of ICT Usage for Disaster Management in Japan

Monitoring & information collection system
- Seismic device
- Sensor signal reception & analysis device
- River information system
- Rain gauge
- Water gauge
- Heli-tele system

Analysis & decision making system
- Earthquake Early Warning System
- Sensor signal reception & analysis device
- Earthquake early warning
- Analysis using GIS

Multicasting & announcement system
- Digital multicasting disaster management radio system
- "Area Mail"
- Using Satellite
- Mobile carrier
- Mobile phone
- Satellite
- Civilians
- Fire brigades & flood prevention team

Disaster countermeasure & rescue system
- Digital disaster management radio system
- (Digital circuits)
- Base station
- Mobile station
Idea of regional information coalition:
10 ASEAN Member States are connected and safer community with strong resilience is realised.
7.(proposal) M2M cloud as a common social infrastructure - What Is M2M?

Originally M2M means a system that connects and automatically and optimally controls machines, without human intervention.
We will provide “universal” M2M cloud service, collaborating with NTT Group.

Vision

Our M2M cloud can be used with sophisticated security

by anyone, from anywhere, for any purposes
Is this a sensor system?

A long time ago in Japan...

Ouch!

Any stranger?

Ring Ring Ring...
Thank you for listening to our presentation.

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