Accomplishing the SDGs and Solving Social Issues through ICT

Toward achieving targets in 2030 (SDGs / SFDRR) to leverage Global Database for Disaster Statistics

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Fujitsu at a Glance

Fujitsu is the world's fifth-largest IT services provider and No.1 in Japan

Subsidiaries: 502
Employees: 155K
Sales: JPY4.51T
Datacenter: 138

As of March 2017 (only data centers as of May 2017)
Fujitsu’s approach to SDGs

- Fujitsu unreservedly endorses the sustainable development goals (SDGs) of the United Nations.

- We want to increase our contribution to the achievement of the SDGs in fields where effective use of ICT can have a major impact.

- Fujitsu is providing services; including AI that assists pharmaceutical development, analysis of statistical data on disasters, and energy usage data.

- By increasing global rollouts of such services, we will grow businesses and make our best efforts focused on realizing the SDGs.

Source: Fujitsu Integrated Report 2017
Contribute to sustainable development for society and the planet
Co-creating Values with UNDP/Tohoku Univ.

**SDG11** Sustainable Cities and Communities

Partnerships with the UNDP and Tohoku University, developing the disaster statistics global database (GDB)

**United Nations Development Programme (UNDP)**

- Pilot countries (3 yrs.): Indonesia, Myanmar, Sri Lanka, Maldives, the Philippines, and Cambodia

Guiding their collection of disaster data, info disclosure, and policy-making, and enhancing its disaster-preparedness

**International Research Institute of Disaster Science, Tohoku University**

- Global Centre for Disaster Statistics
- Global database (GDB)

Accumulating and analyzing disaster statistics data in the GDB, and providing advice to each country through the UNDP

**Coordination**

- Entered into a partnership in March 2017

**Supporting GDB utilization**

**Fujitsu**

Providing technical support in the design and construction of the GDB

Image provided by the Global Centre for Disaster Statistics

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Vision on Joint Project

What we expect to achieve on SDGs and Sendai Framework in 2030

Normal times

“Build Back Better” in recovery/rehabilitation

Management Cycle for Disaster Risk Reduction

Occurrence of disaster

1. Capacity building for Data collection by UNDP
2. Storage Disaster data
3. Tohoku Univ.
   - Analyze disaster data
   - Develop disaster mitigation plan
4. Instruct Policy making by UNDP

Sendai Framework for Disaster Risk Reduction 2015 - 2030

Monitoring Indicators

Embarkment construction
Hazard map/ Evacuation drills

Global Database
Toward creation of new added value

New business multiplied data infrastructure with other information / technology

Implement to pilot countries (〜2019)
- Indonesia, Myanmar, Sri Lanka, the Maldives, the Philippines, and Cambodia

Toward 2030

Expanding GDB in Asia-Pacific countries, contributing to the capacity building of governments to reduce damage of disaster

Support

UNDP

Analysis

Tohoku Univ.
IRIDeS

Global Database (GDB)

Data security

Support development of white paper

Government / institution official data

- Population (male / female, ethnic groups, languages, etc.)
- National Accounts Calculation (GDP, growth rate, etc.)
- Agriculture, forestry and fisheries (agricultural land area, production volume, etc.)
- Industry (production index, industrial production, etc.)
- Energy (coal, gas, power generation, etc.)
- Geography / Atmosphere (Air Pollution, Landscape, etc.)
- Social security (death rate, medical expenses, etc.)
- Educational culture (literacy rate, enrollment rate, etc.)

Other open data

- Public facility information
- Weather information
- Construction information
- Store business hours, etc

Element Technology

- Cloud/ HPC
- Big data
- AI
- Advanced simulation

Solution

- Information sharing system for disaster prevention
- Wireless LAN connecting shelters
- Tsunami and landslide disaster simulation by super computer
- Human Sensor Solution Using Smartphones
- River management system
- Public broadband mobile telecommunication system

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Apply Fujitsu Value creation model to Area of Disaster Risk Reduction

Global Database for Disaster Statistics

Occurrence of disaster

Investment for DRR

Social development
Do our best leveraging ICT, and steadily taking actions toward "What should be done"
shaping tomorrow with you