Telesciences/ Geoscience:

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Pragma 27

NII Shonan Meeting Report

No. 2014-51

Water Disaster Management and Big Data

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July 7 - 10, 2014

	Title	First Name	Family Name	Affiliation
Organizer	Dr.	Fang-Pang	Lin	National Center for High-Performance Computing (TW)
Organizer	Prof.	Phil	Papadopoulos	University of California, San Diego (US)
Organizer	Dr.	Satoshi	Sekiguchi	National Institute of Advanced Industrial Science and Technology (JP)
	Dr.	Junichi	Aoki	Hitachi, Ltd. (JP)
	Prof.	Lan-Kun	Chung	GIS Research Center, Feng Chia University (TW)
	Dr.	Yoshio	Tanaka	National Institute of Advanced Industrial Science and Technology (JP)
	Prof.	Shinji	Shimojo	Osaka University (JP)
	Prof.	Susumu	Date	Osaka University (JP)
	Dr.	Peter	Arzberger	UC San Diego (US)
	Prof.	Jose	Fortes	University of Florida (US)
	Dr.	Whey-Fone	Tsai	National Center for High-performance Computing (TW)
	Dr.	Prapaporn	Rattanatamrong	Thammasat University (TH)
	Dr.	Sirod	Sirisup	National Electronics and Computer Technology Center (TH)
	Mr.	Bo	Chen	National Space Organization (TW)
	Dr.	Kyoungsook	Kim	National Institute of Advanced Industrial Science and Technology (JP)
	Prof.	Yoshiyuki	Kido	Osaka University (JP)
	Dr.	Jason	Haga	National Institute of Advanced Industrial Science and Technology (JP)
	Dr.	Hiroaki	Yamanaka	National Institute of Information and Communications Technology (JP)
	Mr.	Chen-Yu	Hao	GIS Research Center, Feng Chia University (TW)
	Prof.	Wanida	Putthividhya	Thammasat University (TH)
	Dr.	Yasuhiro	Murayama	NICT / ICSU-World Data System (JP)

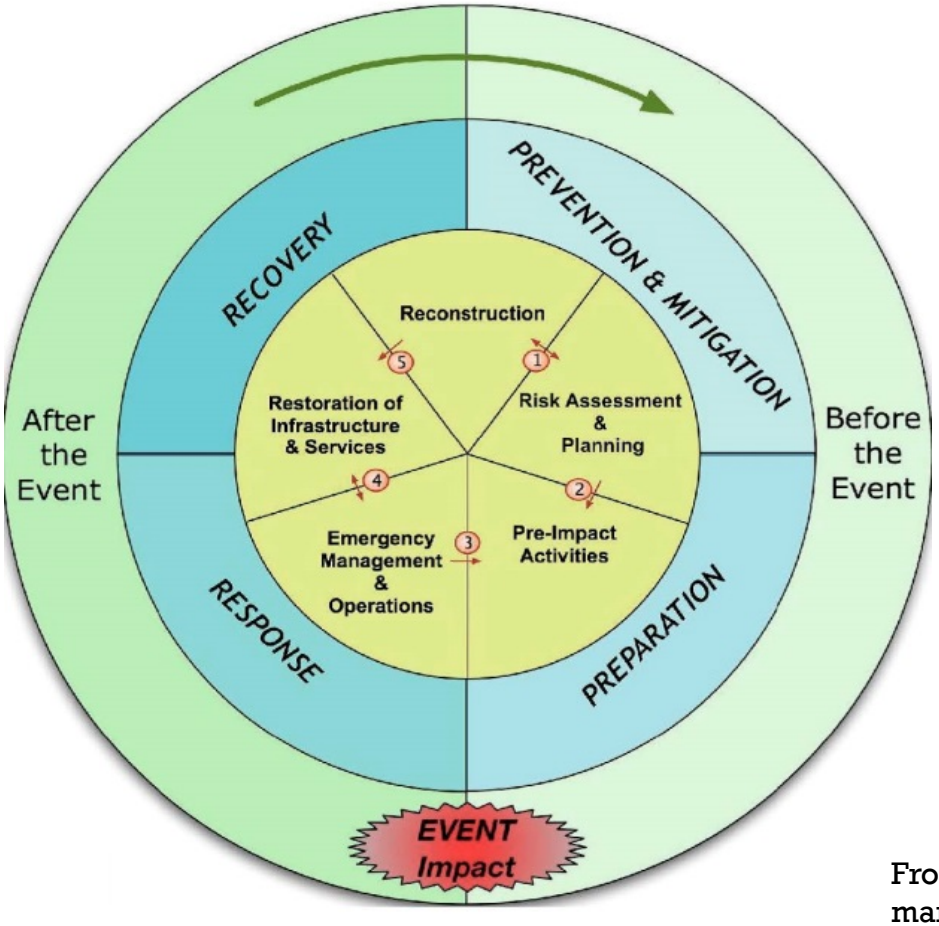
Risk
Landslide
Debris flow
Flood

4. Idea of service business
HITACHI
Facility construction
Flood
Ground water
Water
Water Cycle Simulation
Data base
The request letter: Submitted to the Japanese government
Execution a simulation using the Network

Water Disaster Management and Big Data

NARLabs

Phases in Disaster Management

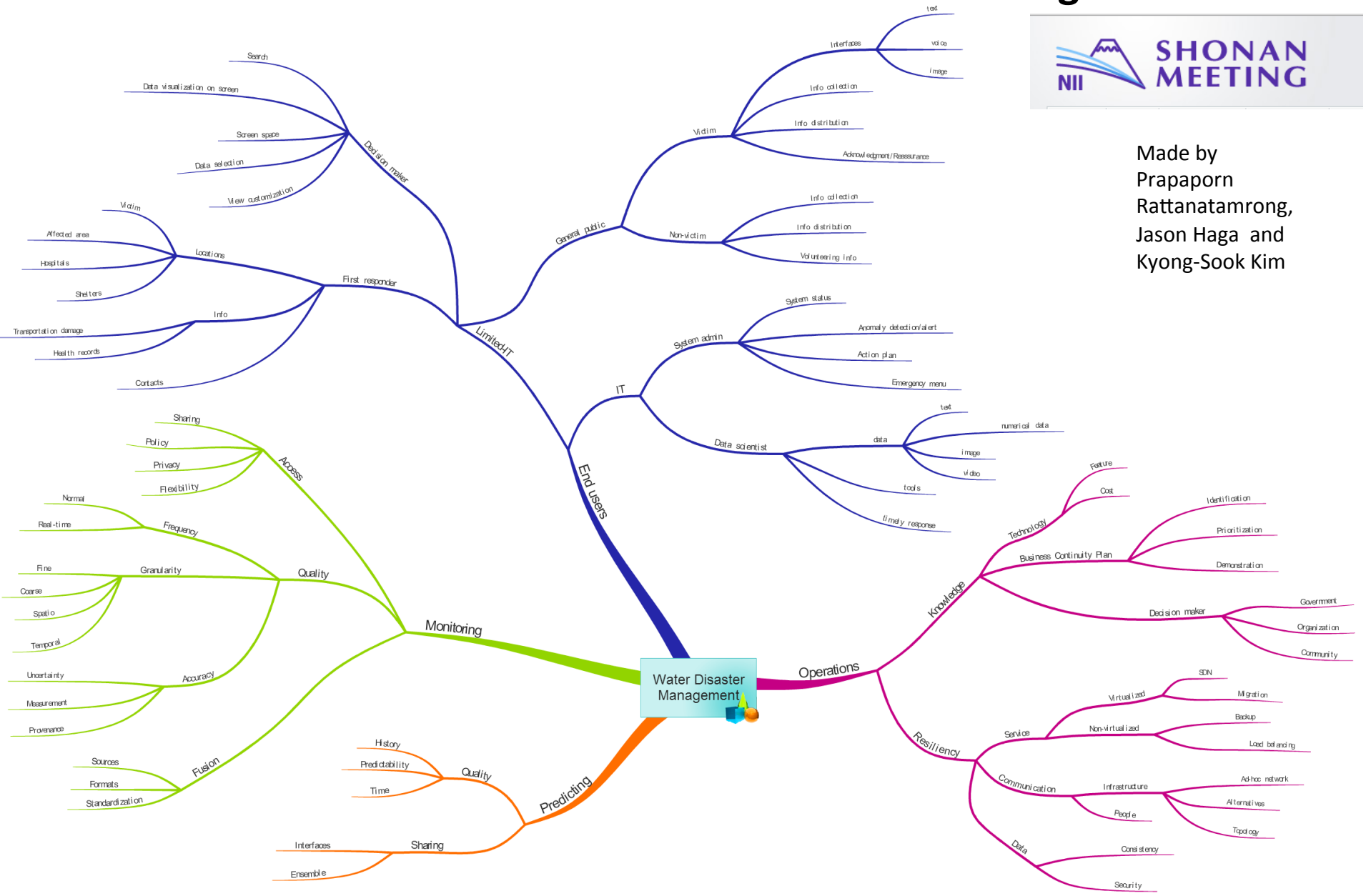


- Quick or Slow onset
- Monitoring, predicting, communicating and responding

NII SHONAN MEETING

From Earthzine (http://www.earthzine.org/disaster-management-theme/). Vanneuville et all, posted March 21, 2011

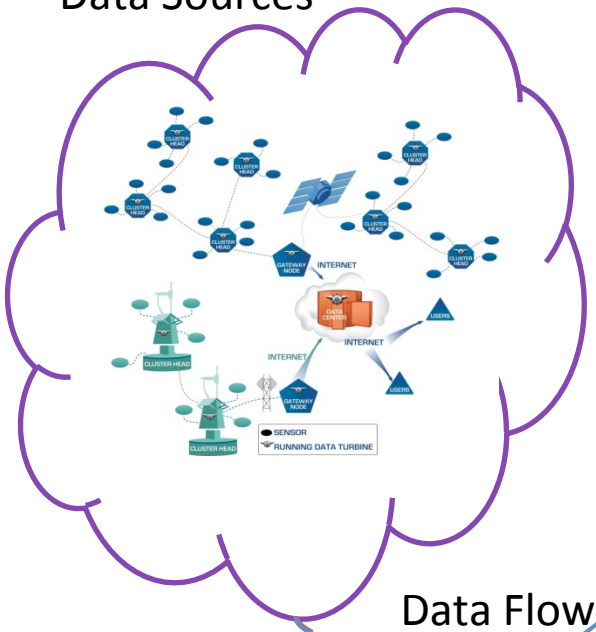
Understand the Real Problems of Disaster Managment



Made by Prapaporn Rattanatamrong, Jason Haga and Kyong-Sook Kim

Future Collaboration in Big Data service: Service Continuity through Virtual Data Centers

Sensor Networks:
Data Sources



Virtual Data Center

Data Flow

Virtual Data Center (backup services)

by Phil Papadopoulos

COLLABORATION WITH KOBE INSTITUTE AND THE LAB

Interactive model for the railroad museum Nicole Wong

day 1

- Nor Arlina Amirah Ahmad Ghani, Nurul Shakina Mohd Talkah, Shaiful Rahim, Iylia Zulkifli, Parveendeerjeet Kaur Bal, Mohd Shahir Shamsir Omar, “Implementing Citizen Science in Biodiversity Conservation: A Case Study of EcoSabah Android Application Reporting Solution for Species Occurrences in Sabah, Malaysia”
- Dr. Jongsung Lee, “disaster monitoring and mitigation.”
- Report from disaster mitigation, Fang Pang and me.
- Dr. Wen-Yii Chang "A River Basin-based Real-time Bridge Safety Warning System"

day 2

- Discussion on disaster mitigation on Pragma ENT