

Overview of Enforcement of DAN's Activity

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(P-DAN)

Geoinformatics Center (GIC)
Asian Institute of Technology (AIT)

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Data Analysis Node – DAN JPTM Terms of Reference

Data Analysis Node (DAN)

The Node for the data analysis

DPN provide its own satellite data to the DAN

Data policy of each DPN is decided by each DPN

DAN member shall implement the following tasks;

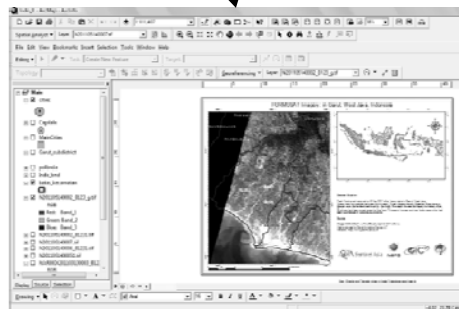
- a) Analyze the satellite data, which is provided by DPN
- b) Make value added product
- c) Disclose the result through the Sentinel Asia System within the domestic legislation of each DAN permits

Procedure for Data Analysis (Value Adding)



Satellite data acquisition

- File Service (DropBox, Google Drive)

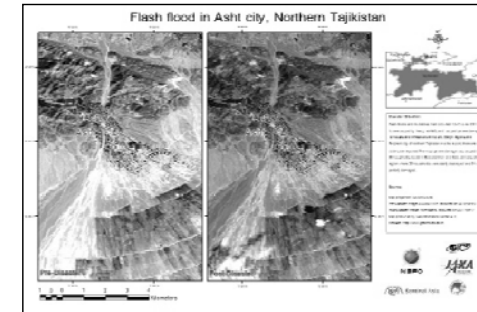


Data analysis (Value adding)

Sharing knowledge among members

Sharing work among members

- Free GIS Data & Software
- Map template
- Capacity Building
- Academic Collaboration



Value added product

- Copyright
- Own web page

Explore possible end-users



Upload to Sentinel Asia System



Sentinel Asia

Survey on DPN and DAN



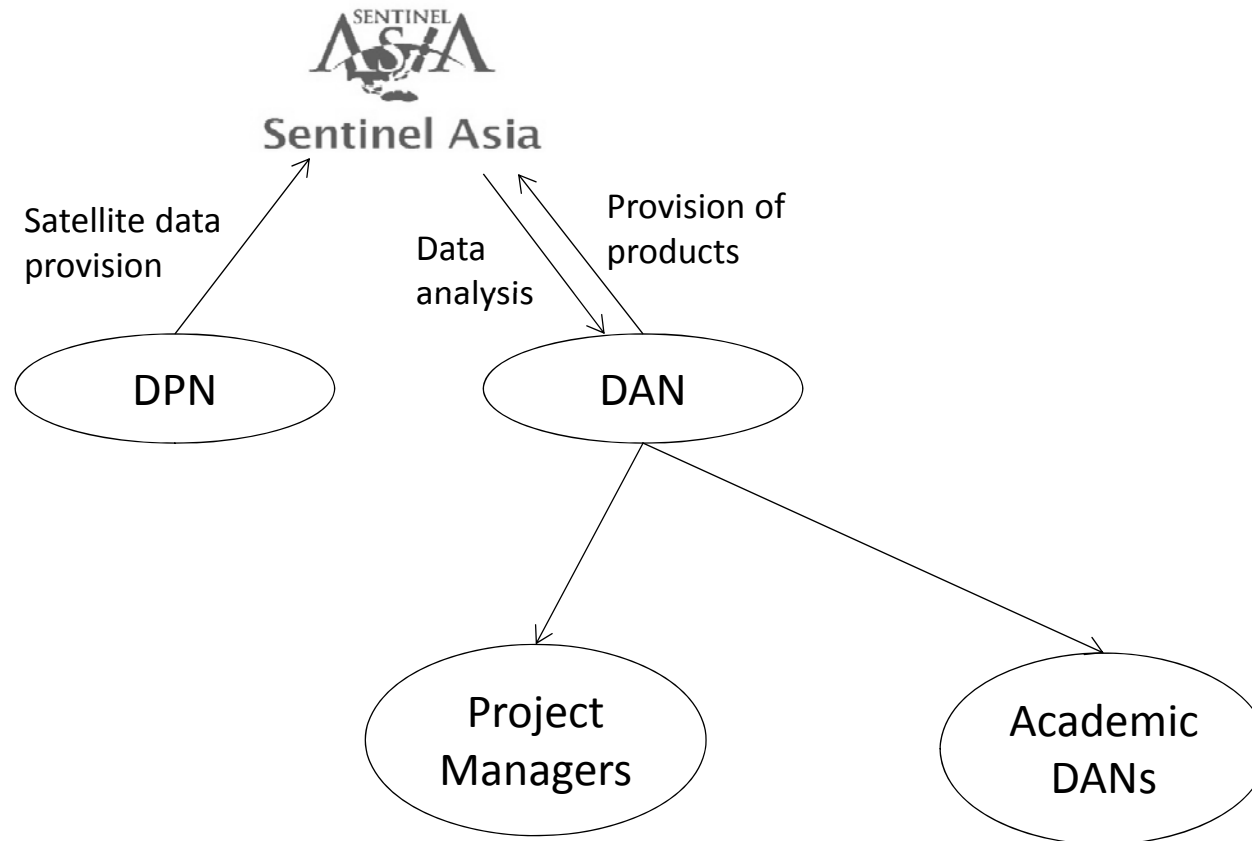
Sentinel Asia, DPN and DAN investigation

General Information	DPN or DAN	DAN (P-DAN)
	Organization	Geoinformatics Center, Asian Institute of Technology
	Analysis of IDC (Yes or No) If yes, who analyze?	Yes
	Contact Information	Name: Masahiko Nagai E-mail: nagaim@ait.ac.th Phone: +66-2-524-5599 / +66-89-025-0484 Fax: +66-2-524-6147
Human Resources Information	Researcher's Information 1	Name: Masahiko Nagai E-mail: nagaim@ait.ac.th Phone: +66-2-524-5599 / +66-89-025-0484 Fax: +66-2-524-6147
	Researcher's Information 2	Name: Kulapramote Prathumchai E-mail: kulapramote@ait.ac.th Phone: +66-2-524-6403 Fax: +66-2-524-6147
	Researcher's Information 3	Name: E-mail: Phone: Fax:
Analysis Information	Main target regions/countries for analysis	South and South-East Asian region. We will support all regions.
	Main target disasters for analysis	Flood, Landslide, Earthquake, Forest Fire and Tsunami
	Main target sensors for analysis	ALOS-PALSAR/PRISM/AVNIR and MODIS, and all
	Available facilities for analysis	Hardware (GPS or digital camera), software (ArcGIS and ENVI) and necessary skills/
	Available supporting datasets for analysis	Remote sensing data in archive, basic GIS data layers of different countries. We will use free GIS data set from internet as well as Google's/
	Sources of dataset / collaboration with other line-agencies	JAXA as well as Government agencies. In case of huge disaster, we can get support from AIT students. Those students come from many Asian countries.
Other Information	Exclusive conditions, if any	No/
	Additional comments	As a regional Center, we need more GIS datasets in each country to prepare better value added products for emergency response. Also, we are ready to support other agency for analysis and map making.

Sharing DAN activities

- Construct human network
- Help each other
- Sharing information
- Sharing activity
- 31 reports (total 36 organizations)

To Expand DAN Activities



Purpose

- International collaborations.
- Sharing of the work.
- Promotion of our activities.

Purpose

- Emergency satellite data analysis by students and faculties.
- Part of educational project.
- Accept any training



Sentinel Asia

PM Training from Sentinel Asia



Date: 20-21 June 2013

Venue: PAGASA, Philippines

PAGASA, PHIVOLCS, Manila Observatory

Date: 25-26 November 2013

Venue: JAXA Bangkok Office

GISTDA, Manila Observatory, AIT



Sentinel Asia

PM Training from Sentinel Asia



PM (Project Manager) Training for International Disaster Charter in Bangkok - 2nd PM training organized by Sentinel Asia-

Date: 25 – 26 November 2013

Venue: 25th Nov. JAXA Bangkok Office
B.B.Building 15th Floor Room No.1502, 54 Asoke Road, Sukhumvit 21,
Wattana, Bangkok10110 Thailand

26th Nov. Grand Millennium Sukhumvit Bangkok
30 Sukhumvit 21 (Asoke) Road, Bangkok, 10110 Thailand

Agenda

25 November 2013, Monday (Day 1)

- 09:00 – 09:10 Registration
- 09:10 – 09:30 Opening: Mr. Sasaki, JAXA Bangkok office Director
Opening Address by AIT: Dr. Nagai
Opening Address by JAXA: Mr. Aizawa
Self-Introduction by Participants: Dr. Nagai
- 09:30 – 09:40 Agenda and Training Introduction: Dr. Nagai
- 09:40 – 10:30 1. Concept of Sentinel Asia
1.1 Concept of Sentinel Asia: Mr.Aizawa
1.2 Escalation from Sentinel Asia to the Disaster Charter: Mr.Aizawa
- 10:30 – 10:45 Coffee Break
- 10:45 – 11:45 2. Function of Project Manager
2.1 PM Functions: Dr. Nagai
- 11:45 – 13:00 Lunch
- 13:00 – 13:30 2.2 PM role and responsibilities: Dr. Daag
- 13:30 – 14:45 3. Dossier and ERF, PM Report, Various Satellite Images
3.1 Dossier and ERF: Dr.Daag
3.2 Current International Charter satellite constellations: Dr. Nagai
- 14:45 – 15:00 Coffee Break

- 15:00–15:45! 3.3!PM!Report:!Dr.!Nagai!
!
- 15:45–!16:30! 4.!PM!Experiences!from!Previous!Activations!
4.1!Philippines!Flood!2013:!Dr.Daag!
!
- 16:30–!17:00! 4.2!Indonesia!Earthquake!2010:!Dr.Nagai!
!
- 17:00–!17:30! Q!&!A!
!
!
!
- 26#November#2013,#Tuesday#Day##
#
- 08:30–!10:00! 5.!Overview!of!International!Disaster!Charter!
! ! 5.1!History!and!Operation:!Ms.!Yamamoto!
! ! 5.2!Charter!Operations!and!Emergency!On!Wall!Officer!(ECO)!Functions!
Questions!&!discussion:!Ms.!Yamamoto!
!
!
- 10:00–!10:15! Coffee!Break!
!
- 10:15–!11:00! 6.!Simulation!of!the!PM!operations:!Dr.Daag!
!
- 11:00–!11:30! 5.3!Performance!of!the!Charter:!Ms.!Yamamoto!
5.4!Introduction!of!COSW:!Ms.!Yamamoto!
!
- 11:30–!12:00! Further!Process!
Closing!Address!by!JAXA:!Ms.!Yamamoto!
!
!
!
End!
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Sentinel Asia

Student Volunteer for SA



Sentinel Asia

Satellite data provision



Data analysis



Provision of products

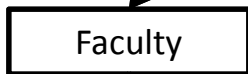
Other universities' JPT member

- JPT Academic member
- Royal University of Bhutan, Beijing Normal University, University of Kashmir, Gauhati University, Institute of Technology Bandung, Universitas Jenderal Achmad Yani, Keio University, Japan, Hokkaido University, Japan

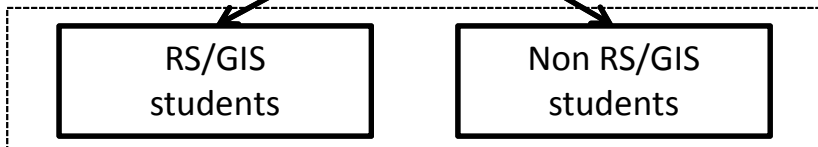
To construct university network of DAN

- Academic member
- AIT (P-DAN)
 - CRIPS/NUS
 - PSU, Thailand
 - Chinese University of Hong Kong
 - Yamaguchi University, Japan
 - Chubu University, Japan
 - National Central University, etc

Adviser = JPT member



Advice / academic credits



To organize students team

Purpose

- Emergency satellite data analysis by students.
- Part of educational project.
- Voluntary based activity.

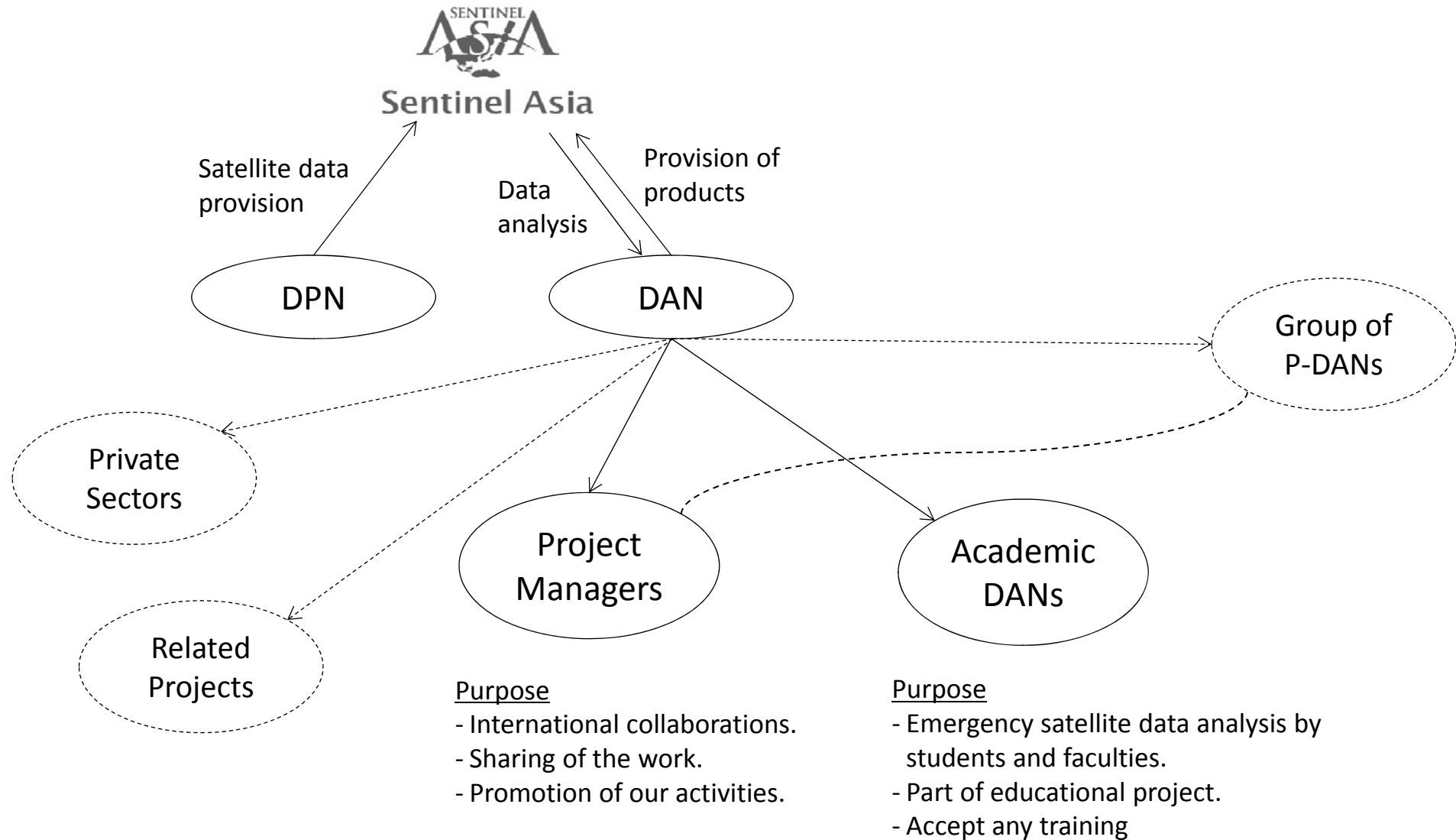
Students

- disaster information collection.
- Utilization of satellite data for their study.
- Acquisition of academic credit.

Expected outcomes

- To secure analysis resource for huge disasters.
- To get local disaster information.
- To develop a network for data analysis.
- To be a capacity building and promotion of Space technology
- To train for future JPT member

To Expand DAN Activities



Thank you