

The Status Update on Multi-GNSS Asia

Multi-GNSS Asia (MGA) Secretariat Satoshi Kogure

17th mtg. of the Providers' Forum Sochi, Russian Federation, 6 November, 2016



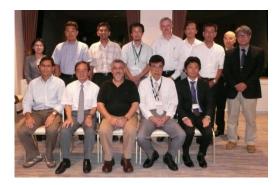
Organization: What is MGA?

Multi-GNSS Demonstration Campaign

- "Multi GNSS Asia (MGA)" is an international organization to promote and support activities of the "Asia Oceania Multi-GNSS Demonstration Campaign" under United Nation International Committee on GNSS (UN-ICG).
 - ICG and PF decided to support multi-GNSS demonstration campaign at ICG-4 in 2009.
 - MGA was established in September 4th, 2011 in Tokyo as a host organization to promote this campaign.
 - Activity progress has been reported in the ICG provider's forum which held every year.
- Main Objective
 - Encourage GNSS signal and service providers and user communities in the Asia Oceania region to develop new applications, and to carry out experiments or demonstrations by using all available "Multi-GNSS" systems whose interface control documents are public, on a best efforts basis in the spirit of international cooperation.



public website: www.multignss.asia

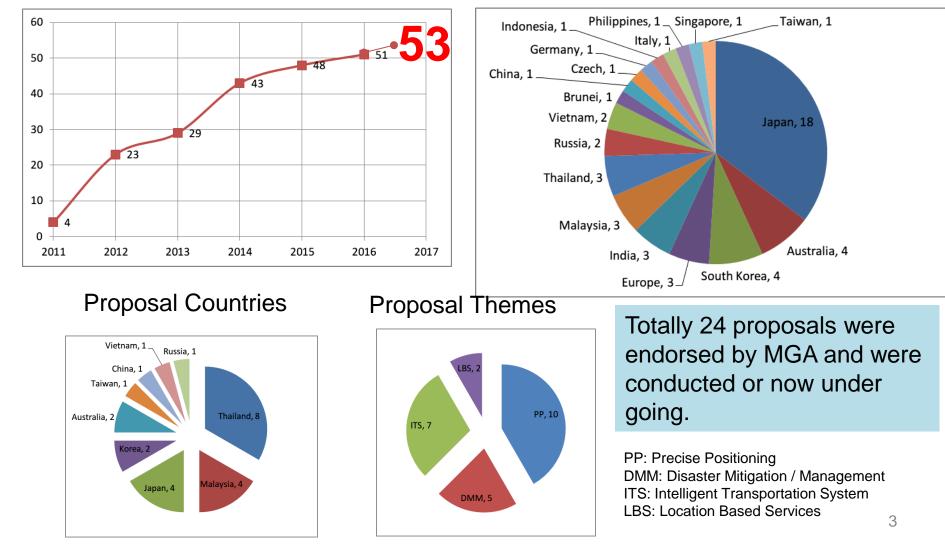


1st meeting of MGA Steering Committee

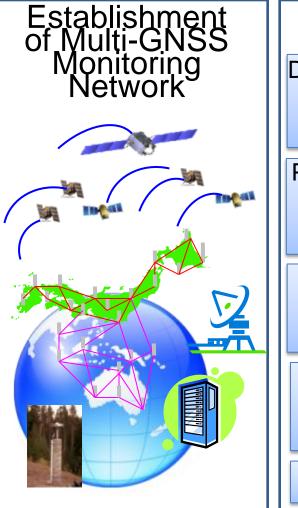


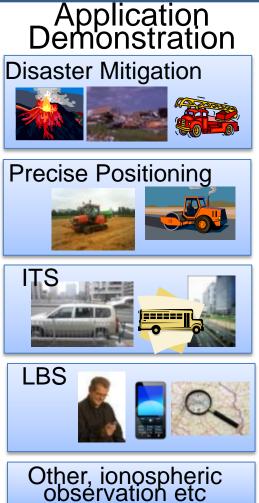
MGA Participating Organizations

Multi-GNSS Demonstration Campaign



Asia Oceania Multi-GNSS Demonstration Campaign Multi-GNSS Demonstration Campaign





Regional Workshop

6th Workshop, Oct. 2014 @ Phuket, Thailand

5th Workshop, Dec. 2013 @ Hanoi, Vietnam

4th Workshop, Dec. 2012 @ Kuala Lumpur, Malaysia 3rd Workshop, Nov. 2011 @ Jeju, Korea:

2nd Workshop, Nov. 2010 @ Melbourne, Australia

1st Workshop, JAN. 2010, @ Bangkok, Thailand









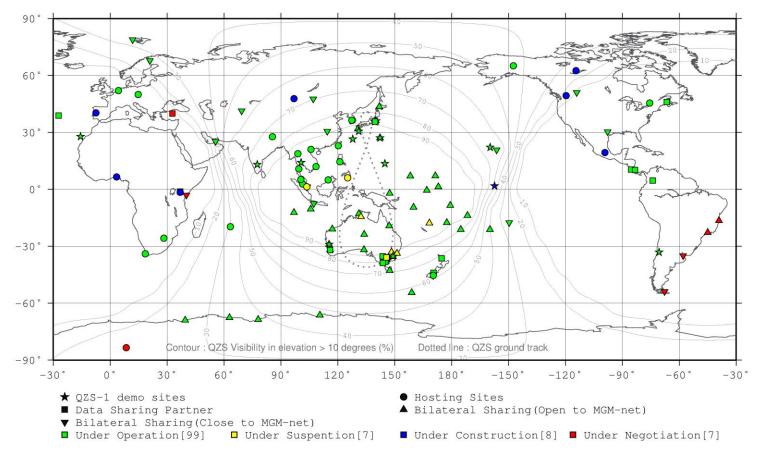


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MGM-Net

MGM-Net has been deployed globally under collaboration with many organizations.

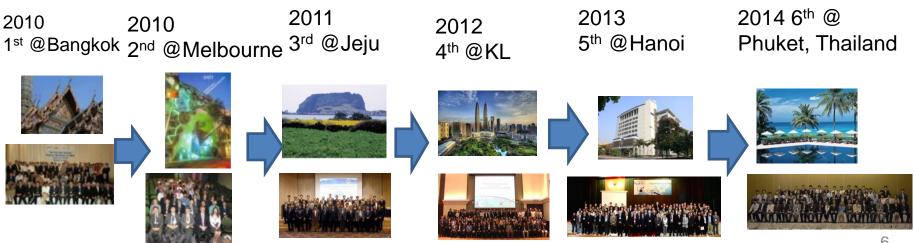
As of end of March, 2016



- 99 sites are operating including sites owned by data sharing organizations.
- 22 sites are expected to be available in 2016.

Annual Workshop in Asia and Oceania region **Multi-GNSS** Demonstration Campaign

- Aim is to discuss the future joint project and share the status and the results of the existing projects annually.
- Contents
 - Current status of GNSS
 - Applications, introductions for the planned joint activities
 - Application working group discussion



7th Multi-GNSS Asia (MGA) Conference



- It was held on December 7-9th, 2015 in Brunei Darussalam.
- Great honor to welcome his excellency Mr. Yang Mulia Dato Paduka Awang Haji Suhaimi bin Haji Gafar, Deputy Minister of Development of Brunei Darussalam.
- About 190 participants from many organizations including universities, related research institutes, government agencies, International organizations and companies gathered from 17

countries.



on	al organiza	itions and companies gathered from 17		
•	Dec. 7th	 Latest trends in GNSS Technology GNSS.asia Industry Seminar Special Agricultural Seminar in Brunei 		
	Dec. 8th	 Welcome and Keynote Speech What's New about GNSS GNSS Applications, Network and Capacity Building Status Report of the Multi-GNSS Joint Experiments 		
	Dec. 9th	 Group Discussion Geospatial Challenges in the Asia-Pacific Region Closing Session 		
	Q	SPAC SOARTECH SYSTEMS Sdn BHd		
QZSS Services Re Green Heart of Borneo		star stor		







MINISTRY OF INDUSTRY AND PRIMARY RESOURCE SURVEY DEPARTMENT

8th Multi-GNSS Asia (MGA) Conference

14th to 16th November, 2016 @Sofitel Philippine Plaza Manila, Philippines



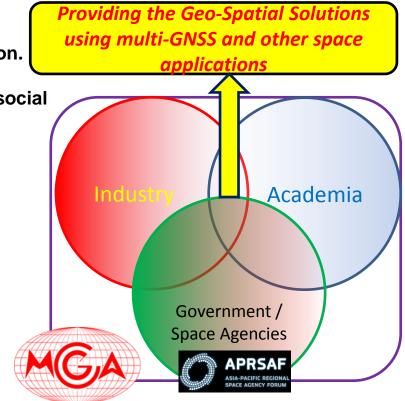
- Industry-Academia-Governmental Cooperation.
- Discuss the solution for social issues in the Philippines
- BtoB matching.











Visit MGA website: <u>www.multignss.asia</u> Please contact to : mgac2016@multignss.asia

Programme at a glance

	Monday, 14th		Tuesday, 15th	Wednesday, 16th	
-	Mindanao	Harbor Garden	Harbor Garden	Harbor Garden	
9			Group Discussion (LBS)		
10	Opening Ceremony			Opportunities for start-ups	Joint Seminar w/ APRSAF-SAWG @ Luzon
	Photo Session				
11	Plenary Session (Panel Discussion)		Group Discussion (DMM)	MGA Annual Activities Report	
12					
13	Students and Young Professionals Forum (Ideathon) [Closed]	Exhibition Opening Lunch Time	Demo Session Lunch Time	Membership Forum (closed) Lunch Time	
14			Group Discussion (ITS)		
15				Special Session f	or the Philippines
16		Industrial Session	Group Discussion (PP)	Special Session for the Philippines	
17			Students and Young Professionals Forum		
18			Students and Young Professionals Forum (Presentation)	Closing Session	
19					
20			MGA Reception ESNC GNSS.asia Challenge Ceremony ESNC BELS Prize Ceremony		
21					

Link to the ICG activity

- MGA is now investigating its new work plan.
- Some of ideas are to be discussed in Steering Committee.
 - IGMA
 - Performance monitoring in the region can be an item for MGA joint experiment
 - MGM-net can provide multi-GNSS monitoring data
 - Outreach for young students and professionals

Calling new members

Join MGA

- We are calling following participants.
 - GNSS providers
 - GPS, GLONASS, Galileo, BeiDou, IRNSS, QZSS, and other countries who are planning to contribute GNSS
 - International organization related to GNSS utilization
 - IGS, FIG, IAG...
 - Government agencies and international organizations related to GNSS utilization in Asia Oceania region
 - Mapping, Transportation, GIS, Tourism, and relevant fields in each country
 - UN ESCAP, ADB
 - Industries
 - Receiver manufacturer, Service Provider
 - Universities and research institutes
- We believe that the Multi-GNSS Campaign can facilitate a close working environment where GNSS signal and service providers on the one hand, and users on the other hand, can take advantage of future multi-GNSS utilization.



 Mailing List Member (1. MGA Participant / 2. Each Working Group)

Please visit to <u>http://www.multignss.asia/howto_join_mga.html</u>



- The status of Multi-GNSS Asia (MGA) was updated. The latest number of the Participating organizations is 53 as of November, 2016
- 7th MGA Conference was held on 7-9 December, 2015 at Brunei Darussalam.
- Next (8th) MGA Conference will be held on 14-16th November 2016 in Metro Manila, the Philippines.
- MGA is investigating its new work plan.



Thank you for your attention.

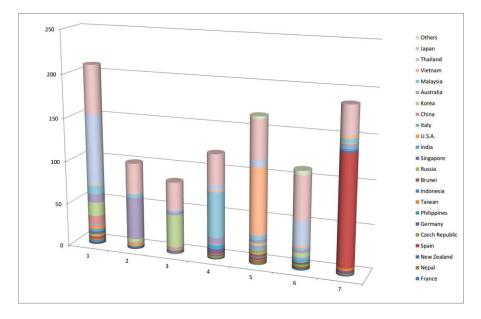
If you have any questions, please let us know.

secretariat@multignss.asia



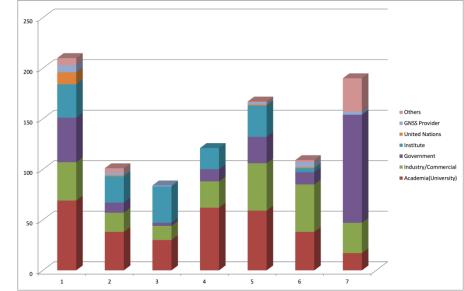
Asia Oceania Regional Workshop on GNSS

Multi-GNSS Demonstration Campaign



Participants

Japan, Thailand, Vietnam, Malaysia, Australia, Korea, Italy, China, U.S.A., India, Russia, Singapore, Brunei, Czech Republic, Indonesia, Germany, Taiwan, Spain, France, Philippine, New Zealand, Nepal, Austlia, Israel, Fiji



Category

Academia (University) Industry / Commercial Government Institute United Nations GNSS Provider Others