

# Asia Pacific Metrology Programme

**Short Report of the progress of**

**APMP.AUV.V-S1**

Qiao SUN



# Asia Pacific Metrology Programme

1. What's happened?
2. What's the point?



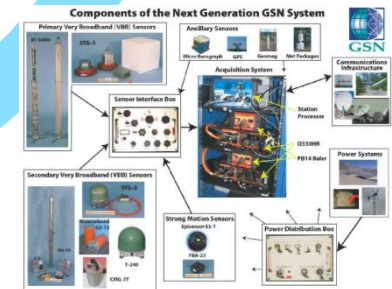
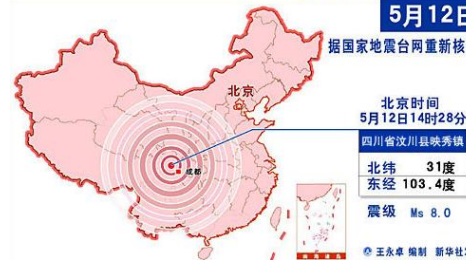
# Background



四川汶川县发生**8.0**级地震

**5月12日**

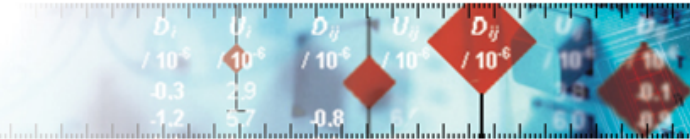
据国家地震台网重新核定



# Participants



Bureau International des Poids et Mesures



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## Key and supplementary comparisons - Participants



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### APMP.AUV.V-S1

#### Participants

CMS	ITRI Center for Measurement Standards <i>Chinese Taipei, APMP</i>
KRISS	Korea Research Institute of Standards and Science <i>Korea, Republic of, APMP</i>
NIM	National Institute of Metrology <i>China, APMP</i>
NIMT	National Institute of Metrology of Thailand <i>Thailand, APMP</i>
NMIA	National Measurement Institute, Australia <i>Australia, APMP</i>
NMIJ	National Metrology Institute of Japan <i>Japan, APMP</i>
NMISA	National Metrology Institute of South Africa <i>South Africa, AFRIMETS</i>



# Measurement task

 Monitoring measurements performed 2010-2011





# Measurement task

☀ Comparison measurements carried out 2011-2012



Comparison transfer standards (Gw10kg)

# Measurement task

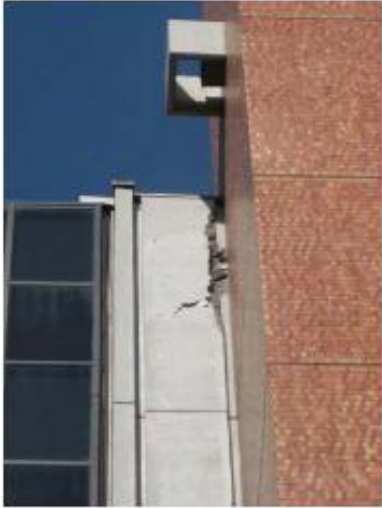


Planned





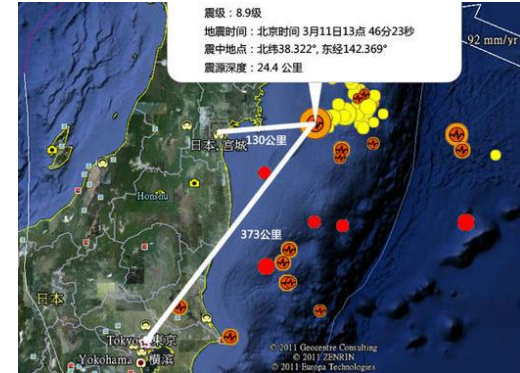
# Reminder of the background



Connecting Hallway  
between buildings



Vibration and Hardness section  
office (5<sup>th</sup> floor)



Experimental room for vibration standard (ground floor)

**Source:** Report of NMIJ to the 11th APMP TCAUV (2011) **by Dr. T. KIKUCHI**





# Asia Pacific Metrology Programme

1. What's happened?

2. What's the point?



# Standards involved



## Self-developed systems



*Horizontal*



*Vertical*

NIM



*Horizontal*



*Vertical*

NMIJ



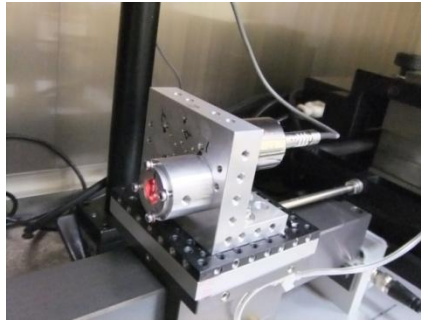


# Standards involved

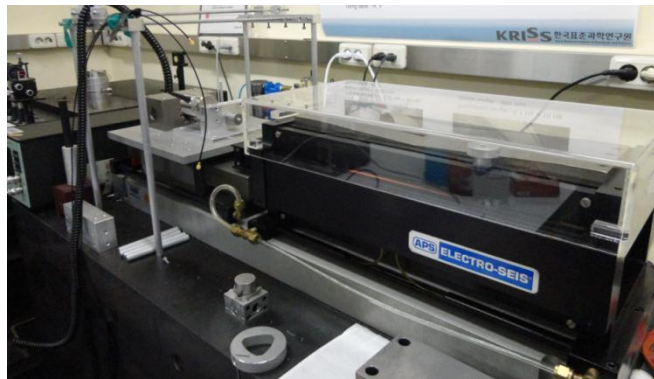
## Commercial systems



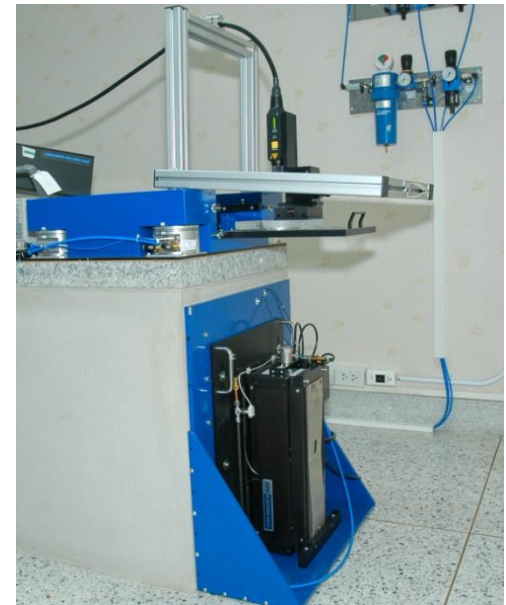
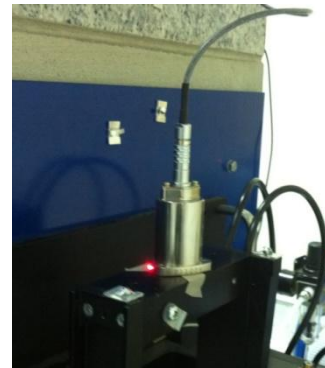
*Horizontal*



CMS



KRISSE *Horizontal*



*Vertical*

NIMT



# Frequency involved



## Self-developed systems



(0.1 - 20) Hz



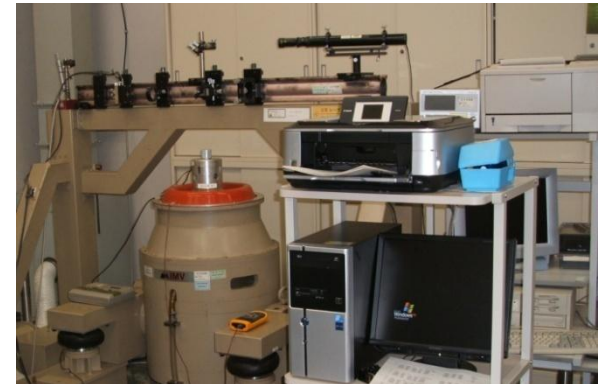
(0.1 - 20) Hz

NIM

(0.5 - 2) Hz



(>2 - 20) Hz



NMIJ

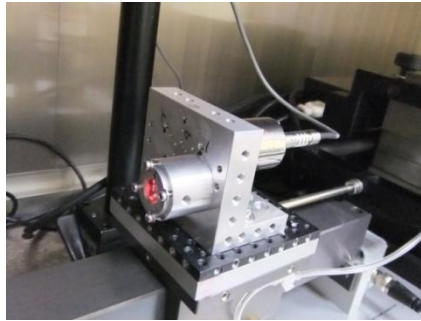


# Frequency involved

## Commercial systems



(0.5 - 20) Hz



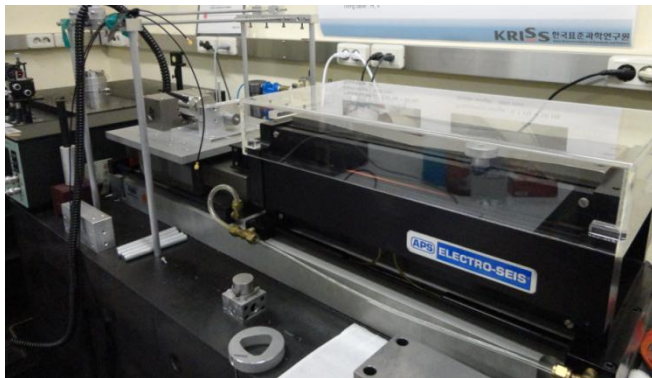
CMS

(0.5 - 20) Hz

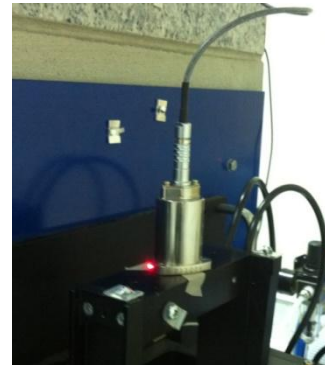


Vertical

NIMT



KRISS (0.5 - 20) Hz



# The point

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- ☀ Measurement task successfully completed
- ☀ Two typical types of system employed
- ☀ Two calibration directions involved
- ☀ Two primary methods used

***The complication may mean further knowledge and understanding.***



# Asia Pacific Metrology Programme

**Thanks for cooperative efforts!**

