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ASIA-PACIFIC SPACE COOPERATION ORGANIZATION

Brief on APSCO Data Sharing Service Platform Project
Beijing China, November, 2012



- Originally, this project proposal was put forward during the First Expert Group Meeting on Future Plan (EGMFP-1) of Space Activities and Development relating to APSCO held in April 2005 in Bangkok, as well as the First Meeting of the Ad Hoc Committee for Program Planning for APSCO held in September 2007 in Beijing. The priority projects recommended by Member States based on these proposals, fully reflect the urgent needs of Earth Observation Technology Applications by use of the existing resources and the advantages of organizational cooperation within Member States.



- During the first and second Council Meetings, the APSCO's Data Sharing Service Platform and its Application Pilot Project was approved for the feasibility study. The APSCO secretariat conducted and concluded the feasibility study during first half of 2010. The feasibility study has assured the project's advantages to Member States and other participating countries. The third Council Meeting approved the Feasibility Study Result for the project implementation and the project have been implemented and operated since May 2012.
- APSCO Data Service Platform and its Application Pilot Projects is the first APSCO project and cooperative symbol among Member States.



Objective of the Project

The project is to manage and store remote sensing satellite data and offer data retrieval and download functions to the APSCO Member States. It also collects catalog figure information of remote sensing data among APSCO Member States to realize an integrated remote satellite data and provides interface of remote sensing satellite data retrieval and data access, and also has functions of information statistics, access control and system maintenance, etc.



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Component





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System Framework

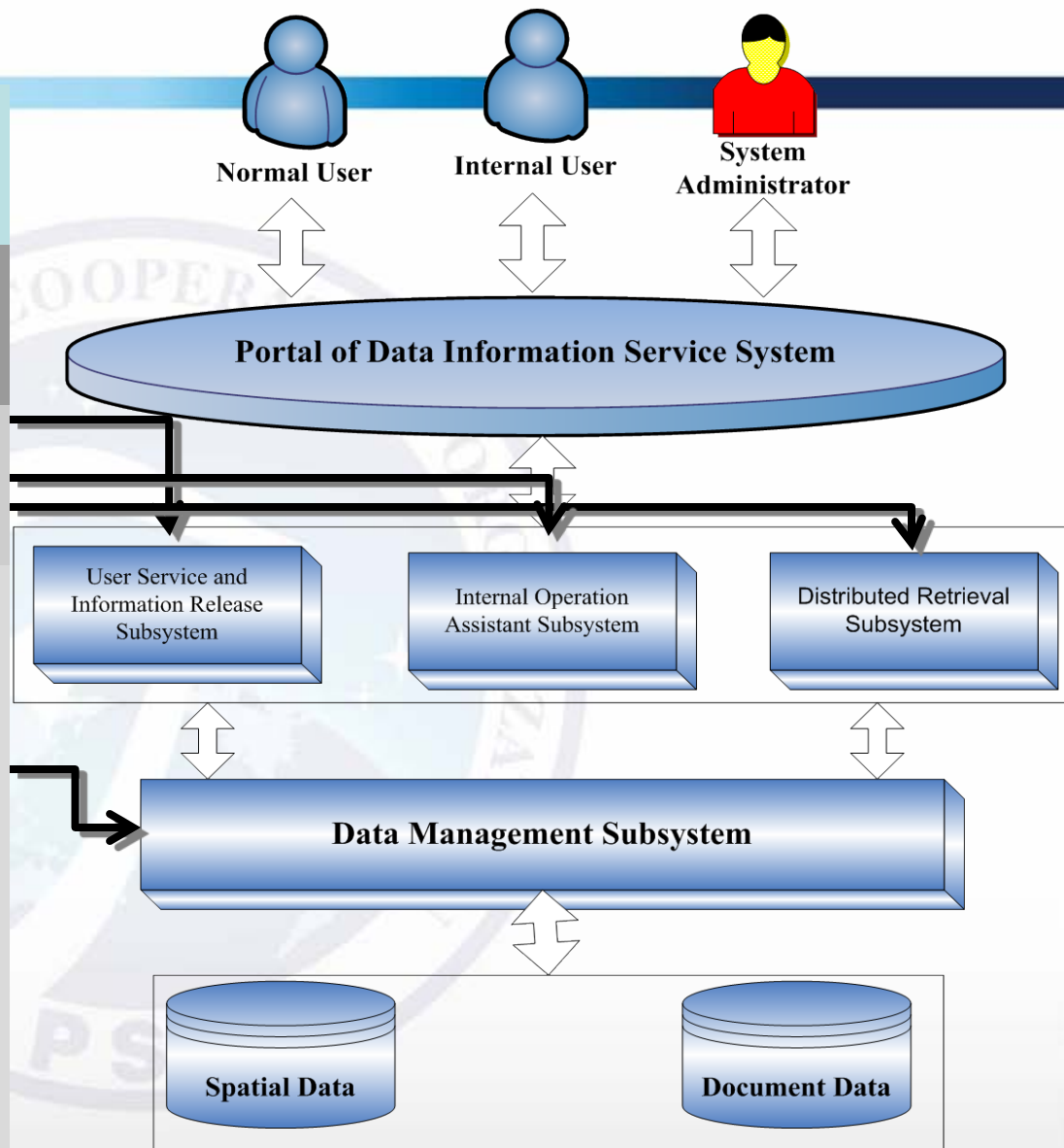
System Description

Release APSCO's information to external users, including news

Provide assistant management function for APSCO's internal routine

Assemble spatial data of APSCO's members, establish distributed retrieval system

Provide unified interface for storage, access and search of spatial data, document data and metadata, and shields physical access details of data, so as to facilitate calls from upper-layer application system, and also have system maintenance function.

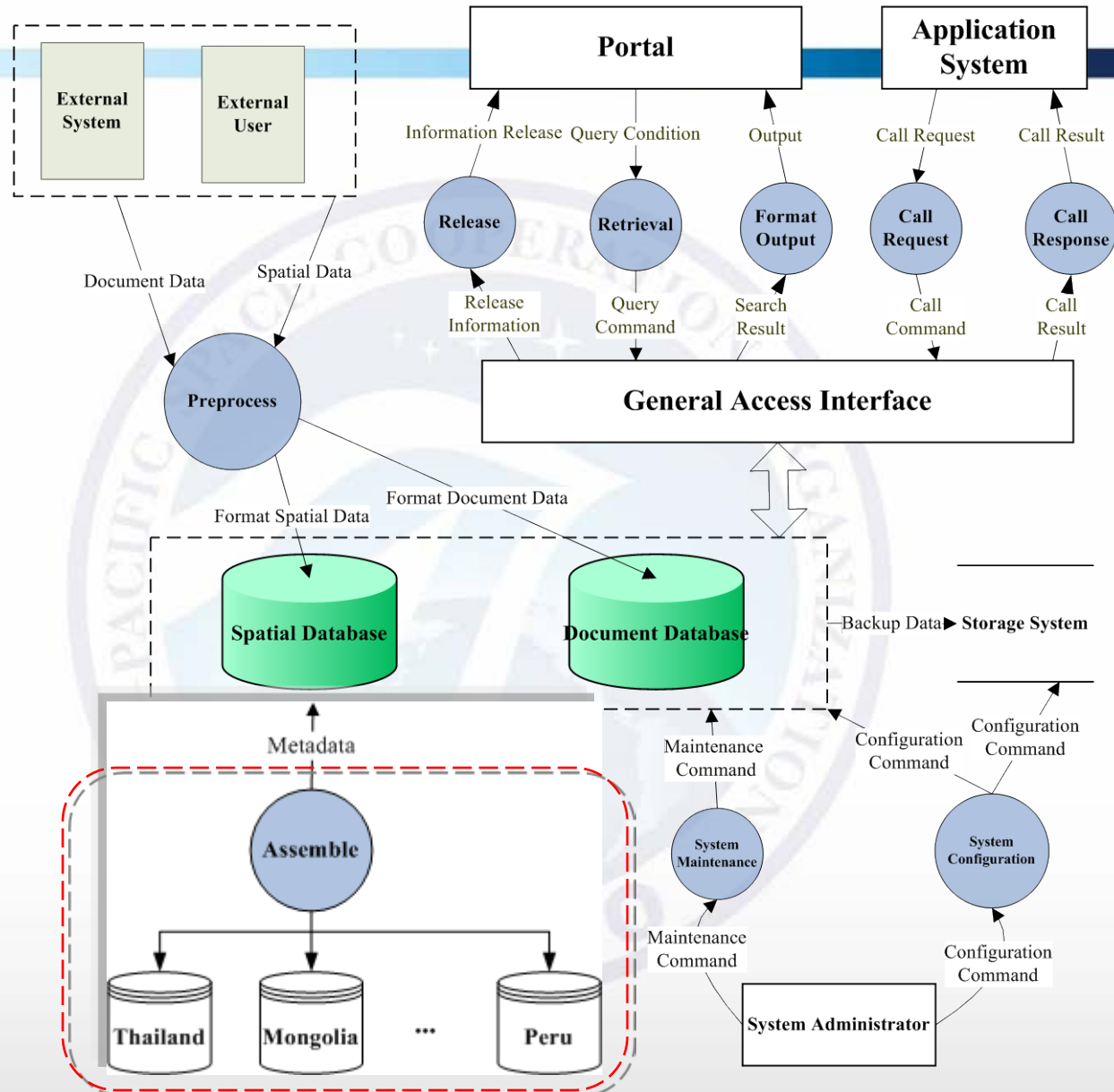




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System Description

System Data Flow

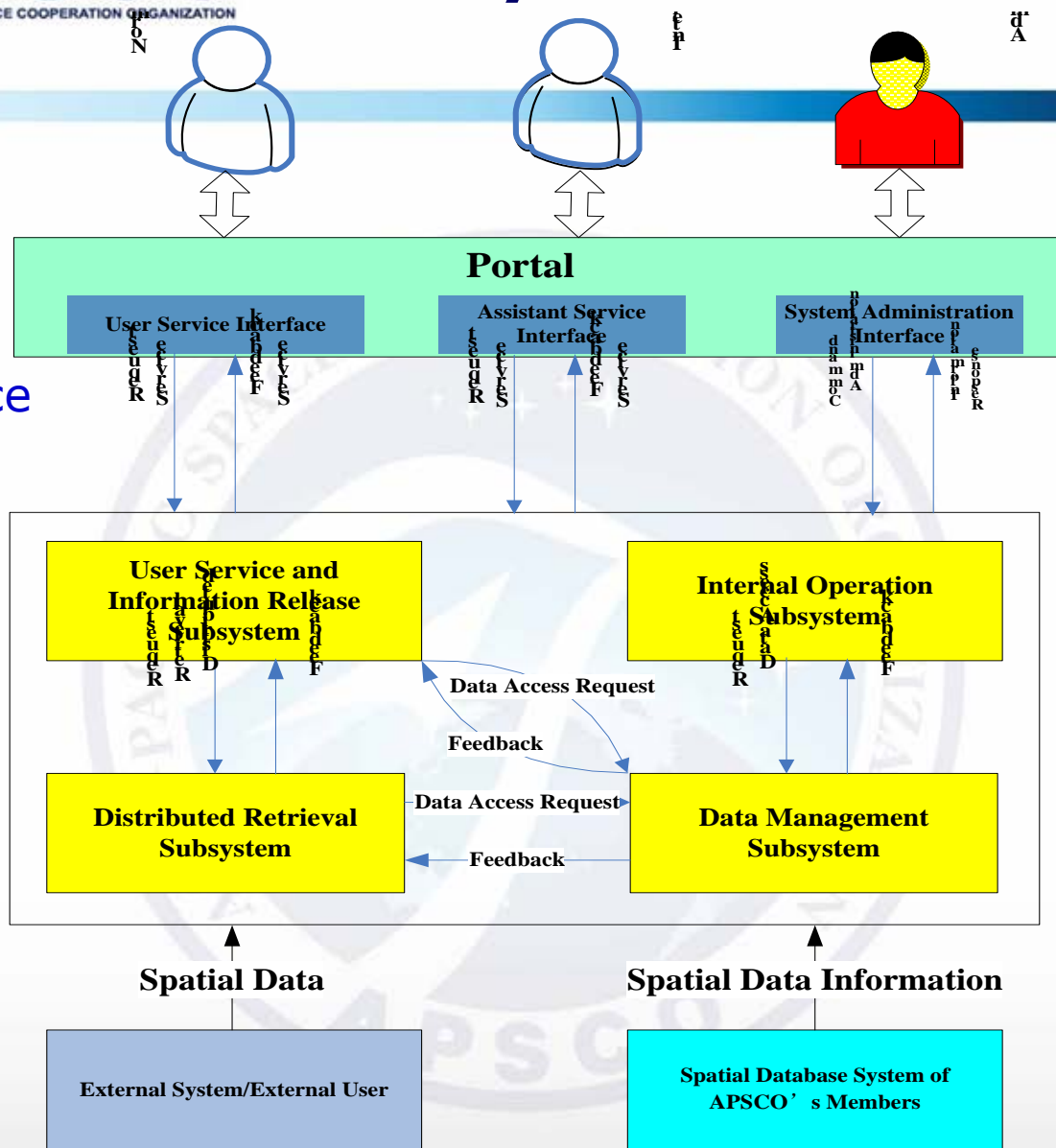




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System Description

System Interface
Relation





Data available in the platform

- SMMS from China and Thailand
- LANDSAT
- Beijing-1 on the process of MOU signature

APSCO tries our best to expand more Data Resources and welcomes all data from Member States.



The fulfillment of this system will provide operation-supporting environment for APSCO's implementation of data and information sharing and efficient distribution and management of data resource and therefore effectively improves working efficiency and management level of APSCO. Meanwhile, the system comprehensive service portal website can serve as the window of internal and external exchanges of APSCO so as to improve its influence in the field of international space technology cooperation.



The Next Step

- APSCO is going to the next stage, the Application Pilot Projects through the service platform and space application activities with responsibilities of the participating countries.



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- Stage of the Application Pilot Project
 - APSCO called Member States to submit project proposals by August, 30.
 - APSCO received totally 10 proposals from Thailand (2), Bangladesh (1), Pakistan (3)/ Peru(1), and China (4)
 - APSCO have evaluated and prioritized four proposals for implementation. The evaluation shall be conducted on September 13, 2012.



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Application Pilot Projects

- 1 Project of Evaluation of Different Remote Sensing Techniques for Drought Study by Pakistan
- 2 Project of Strengthening of Satellite Based Crop Monitoring and Estimation System for Food Security Application in Bangladesh: Application of APSCO Data Sharing by Bangladesh
- 3 Project of Estimation of Rice Field using Multiple Satellite Sensors by Thailand
- 4 Project of Remote Sensing Monitoring of Dust and its Applicative Demonstration in the Arid and Semi-arid Areas by China



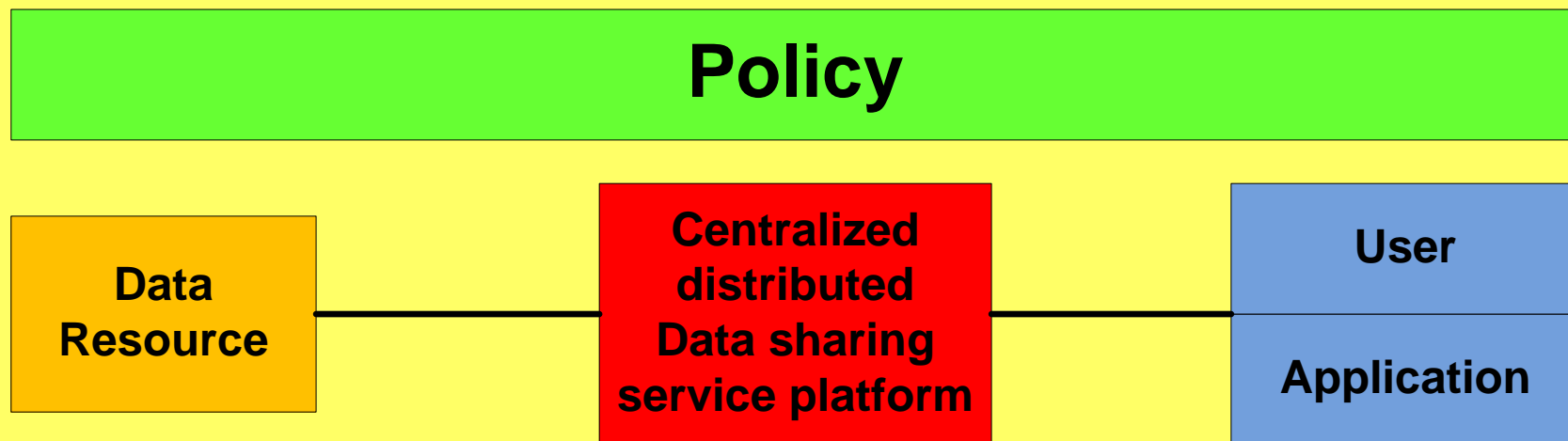
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Application Pilot Project

- APSCO will give in-kind support to selected projects.
- Four project implementation plans are expected to be kicked up soon in 2013.



Data Sharing Service Platform Project



—— Data reception & processing network system

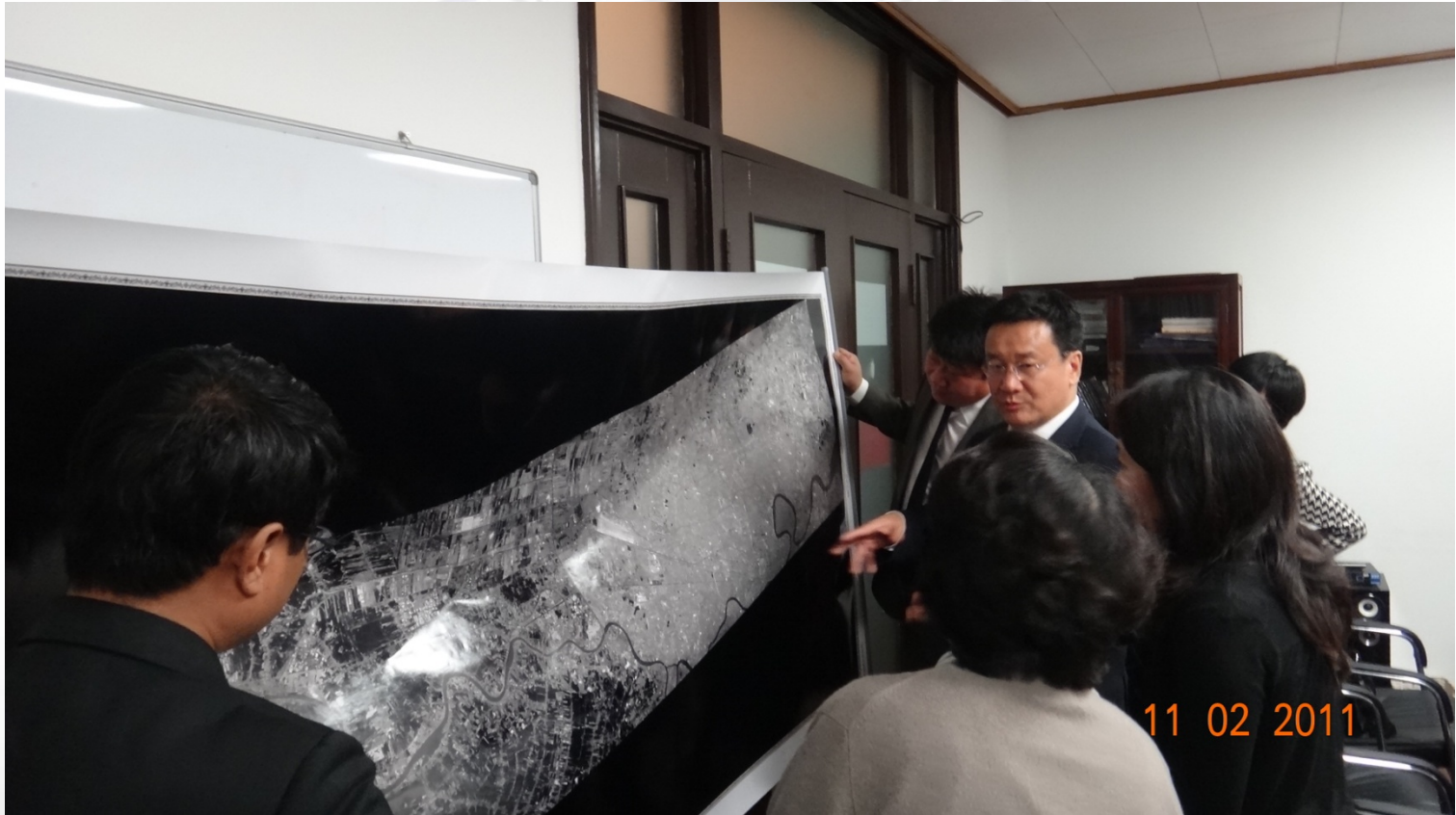
Training



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Experience for APSCO Data Sharing during disaster

- **APSCO Presented Post-Flood Image to the Royal Government of Thailand in 2011**





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Experience for APSCO Data Sharing during disaster (2)

APSCO Presented Post-Earthquake Image to the Government of Turkey in 2011





Conclusion

- APSCO always intends and welcomes to cooperate in the international community for peaceful usages of outer space
- As well as disaster mitigation.



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Thank You!

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What will be expected result from this meeting?

- Comments on **what>>>>>>**

Best Practice or note?