Presentation at CCOP-EPPM in 2011

Petroleum Database System of Korea

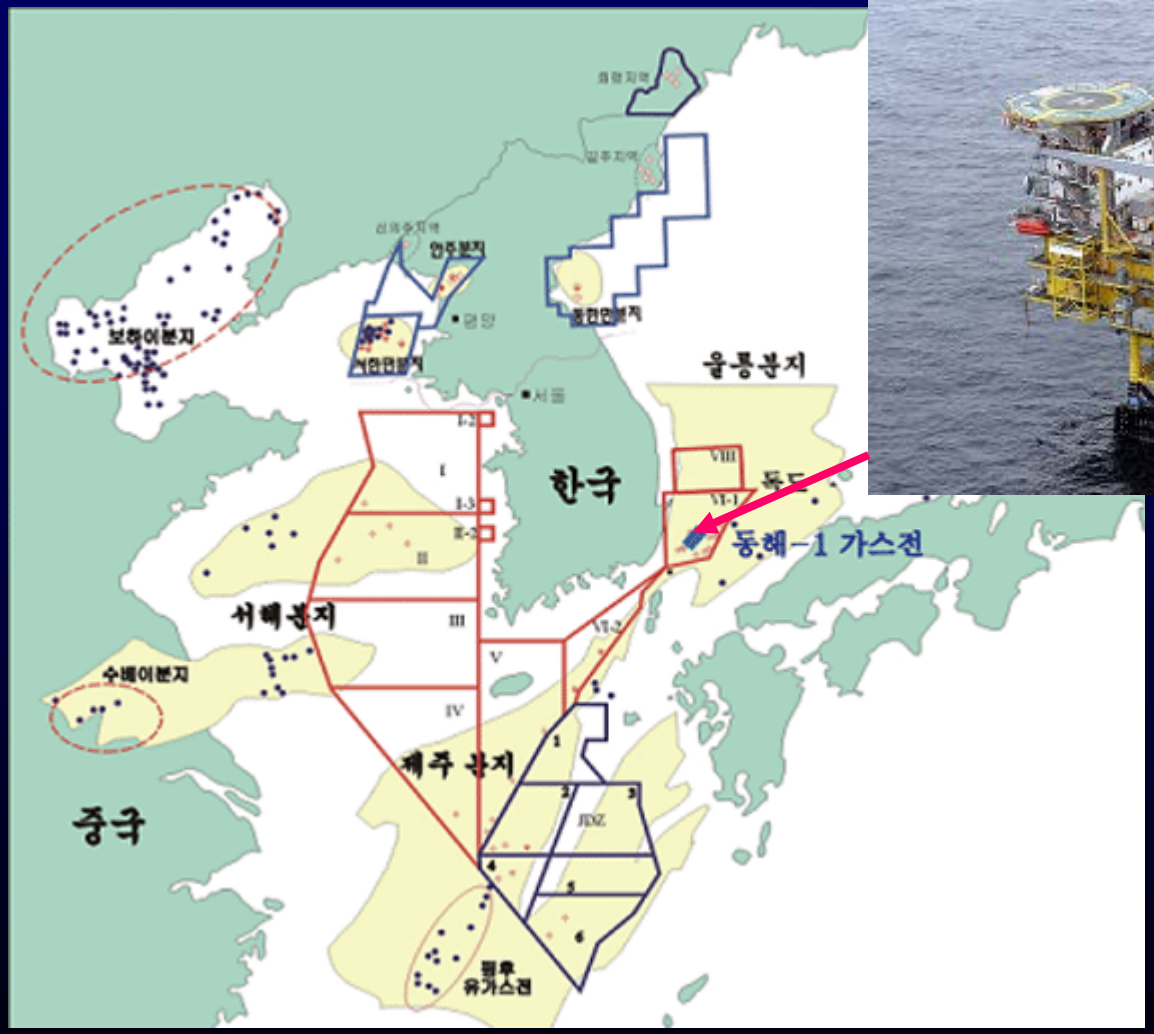
by

Byeong-Kook Son

from

Korea Institute of Geoscience and Mineral Resources (KIGAM)

OFFSHORE BLOCKS

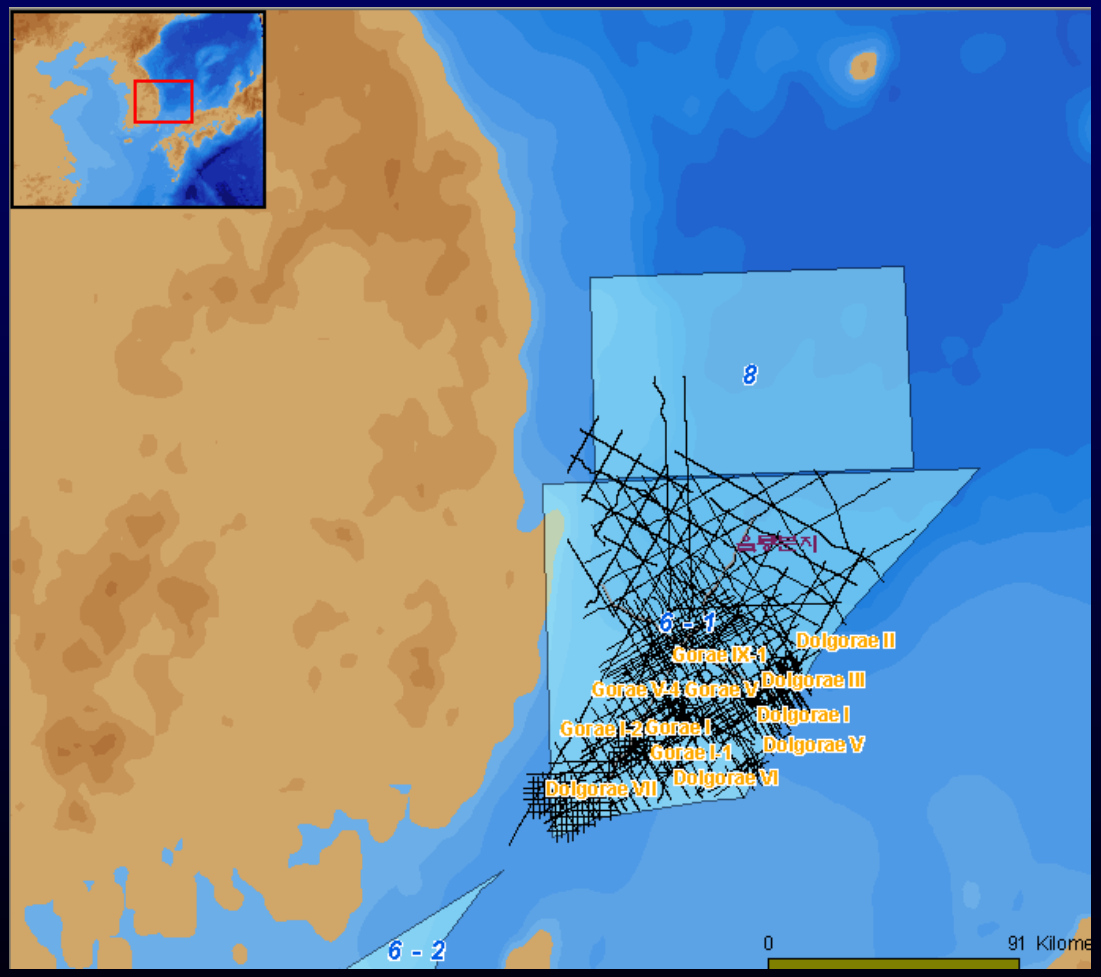


GAS PRODUCTION SINCE 2004 OFFSHORE SE KOREA

50 mcf a day, expecting production period: 15 years

Current Status of Petroleum Activity in Offshore Korea

- Additional exploration around the production area in Block VI-1.
- Exploration also goes to deep sea area, Block VIII.
- Development of Gas hydrate in Ulleung Basin.

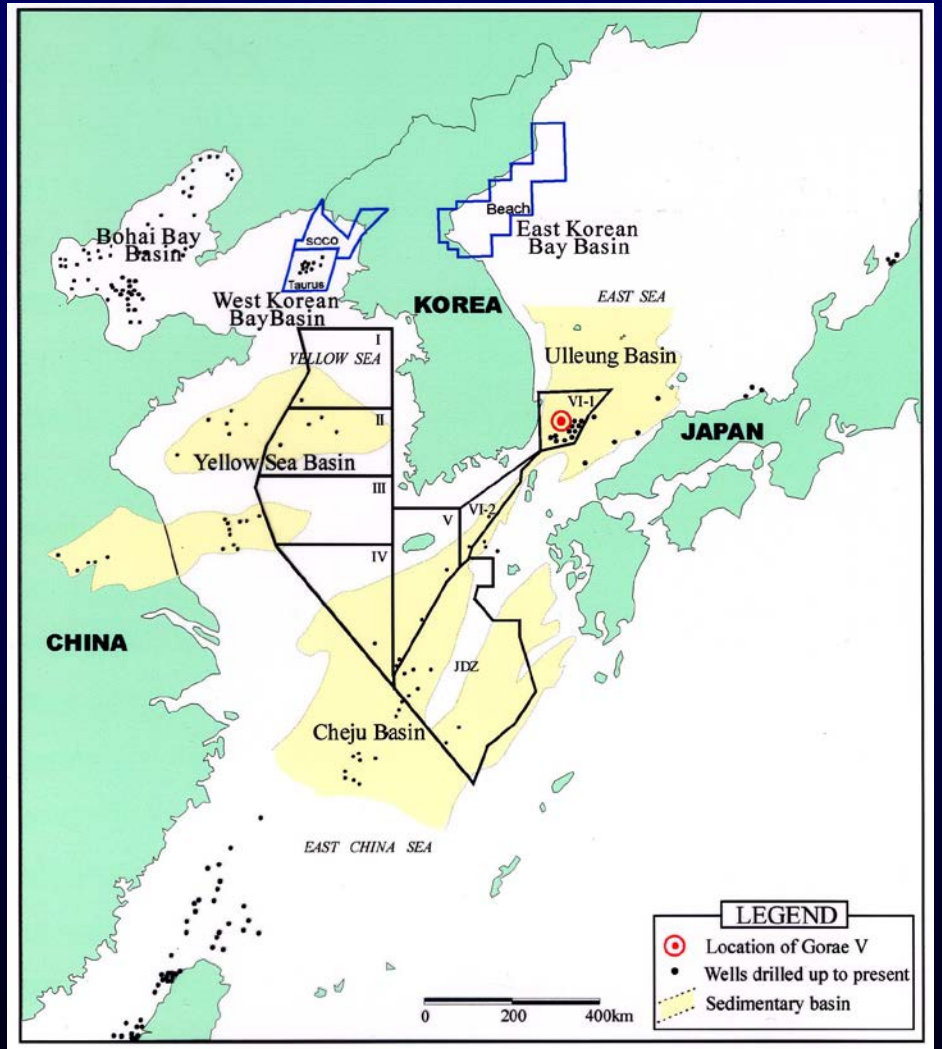


Current Status (by December 2009)

Block Location	Block Name	Block Area (km2)	Seismic (L-km)	Number of Wells
Western blocks	Block 1	36,460	8,520	1
	Block 2	39,433	35,468	4
	Block 2-2	422	-	1
	Block 3	41,427	8,193	-
	Total	117,742	8,193	6
Southern blocks	Block 4	42,449	12,781	1
	Block 5	42,390	11,995	4
	Block 6-2	11,688	12,786	3
	Total	96,527	37,562	7
Eastern blocks	Block 6-1	12,918	135,296	23
	Block 8	8,481	5,107	-
	Total	21,399	135,296	-
JZD region	All JDZ zones	82,558	54,840	7
Others	East and west	-	2,585	-
TOTAL		318,225	282,464	44

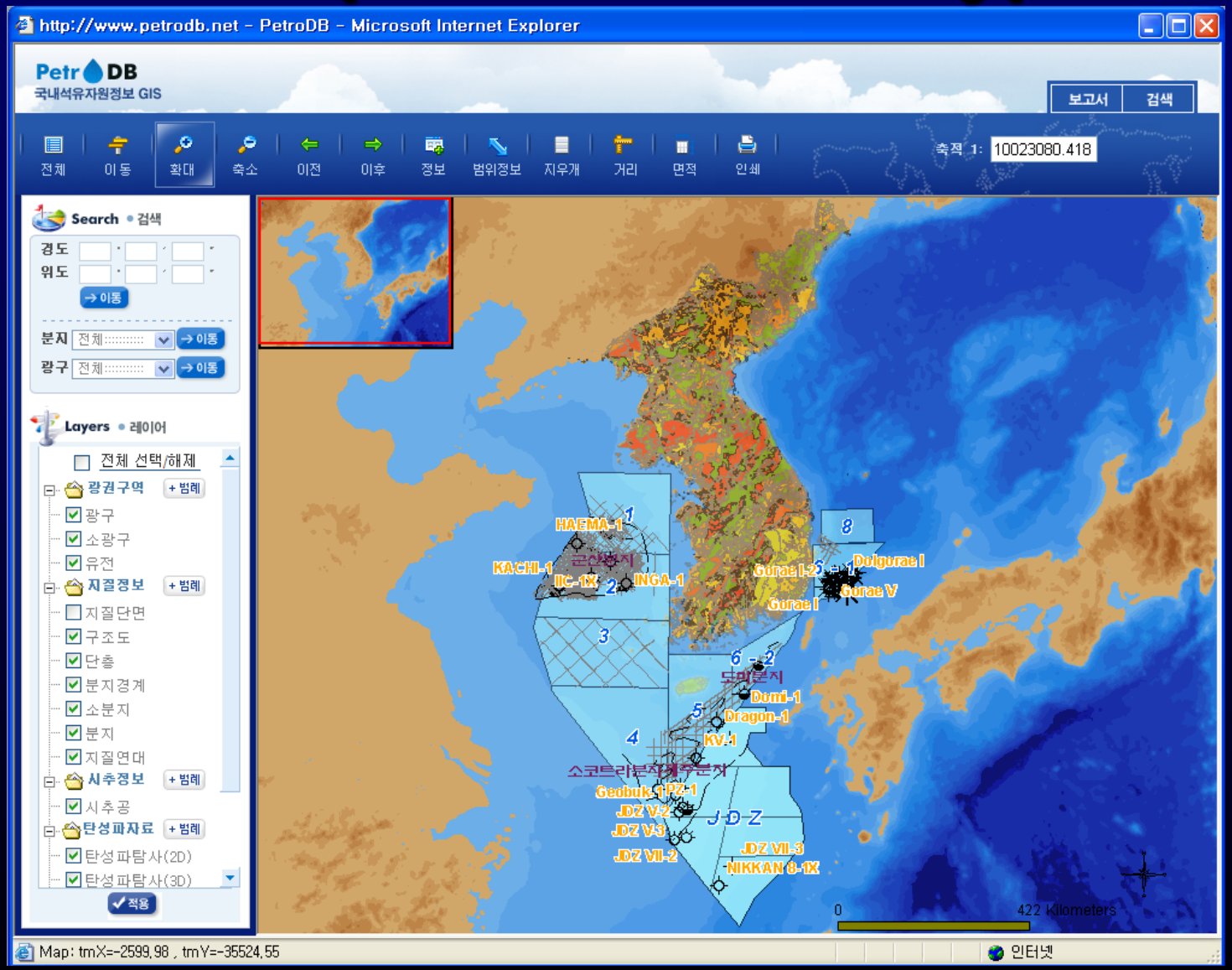
Background of Construction of the Database System

- Offshore petroleum survey since 1970s
- 44 wells drilled, but most of them dry wells
- Commercial production of gas in 2004 from small scaled reservoir, -50 mcf a day, expecting production period: 15 years
- Exploration over 30 years, but no Petroleum DB
- Scattered Petroleum Data in different organization (KNOC, KIGAM, KORDI)
- Government asked KIGAM in 2006 to make a database system



Location Map

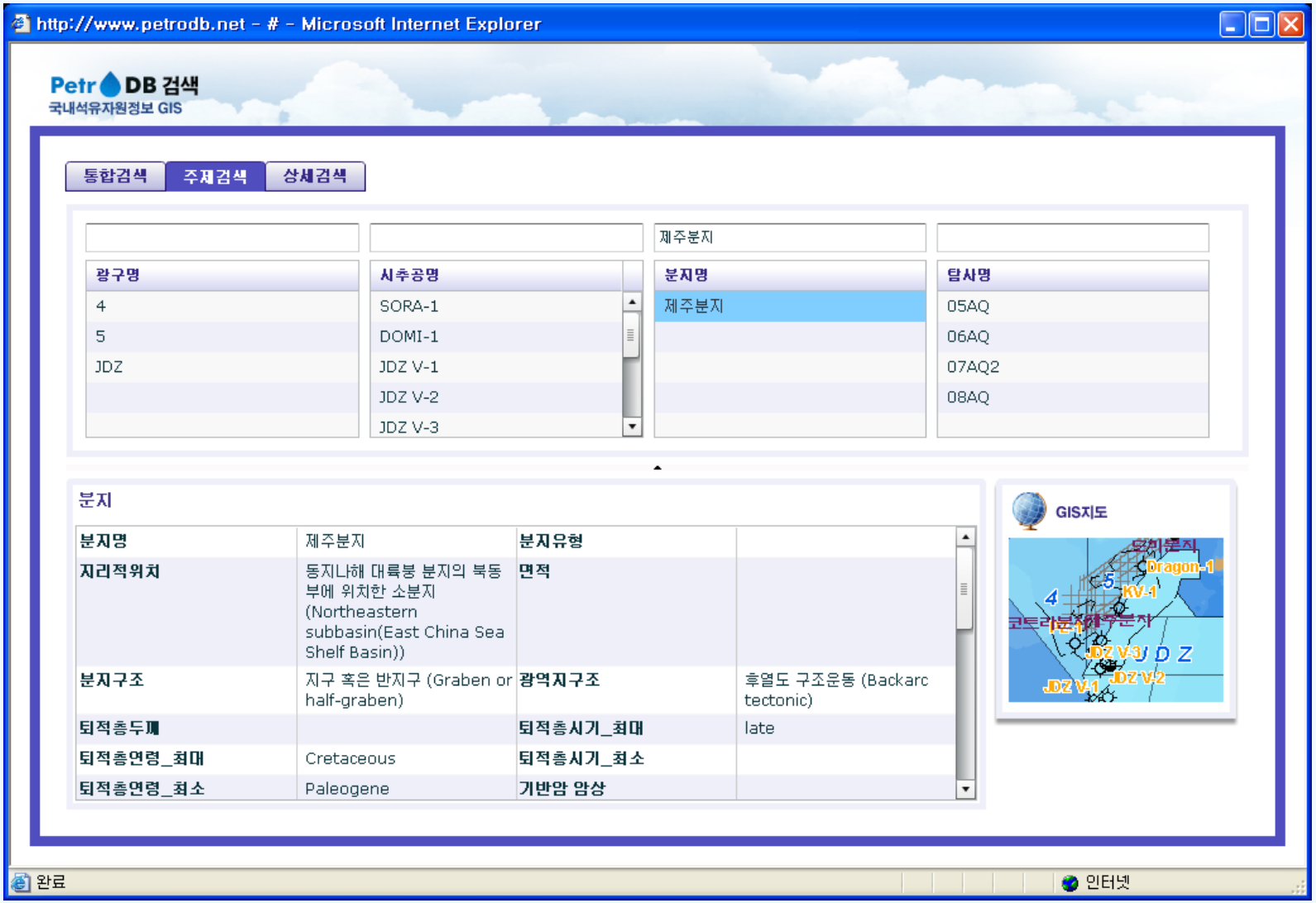
NATIONAL PETROLEUM DATABASE
Completion of Prototype in 2009



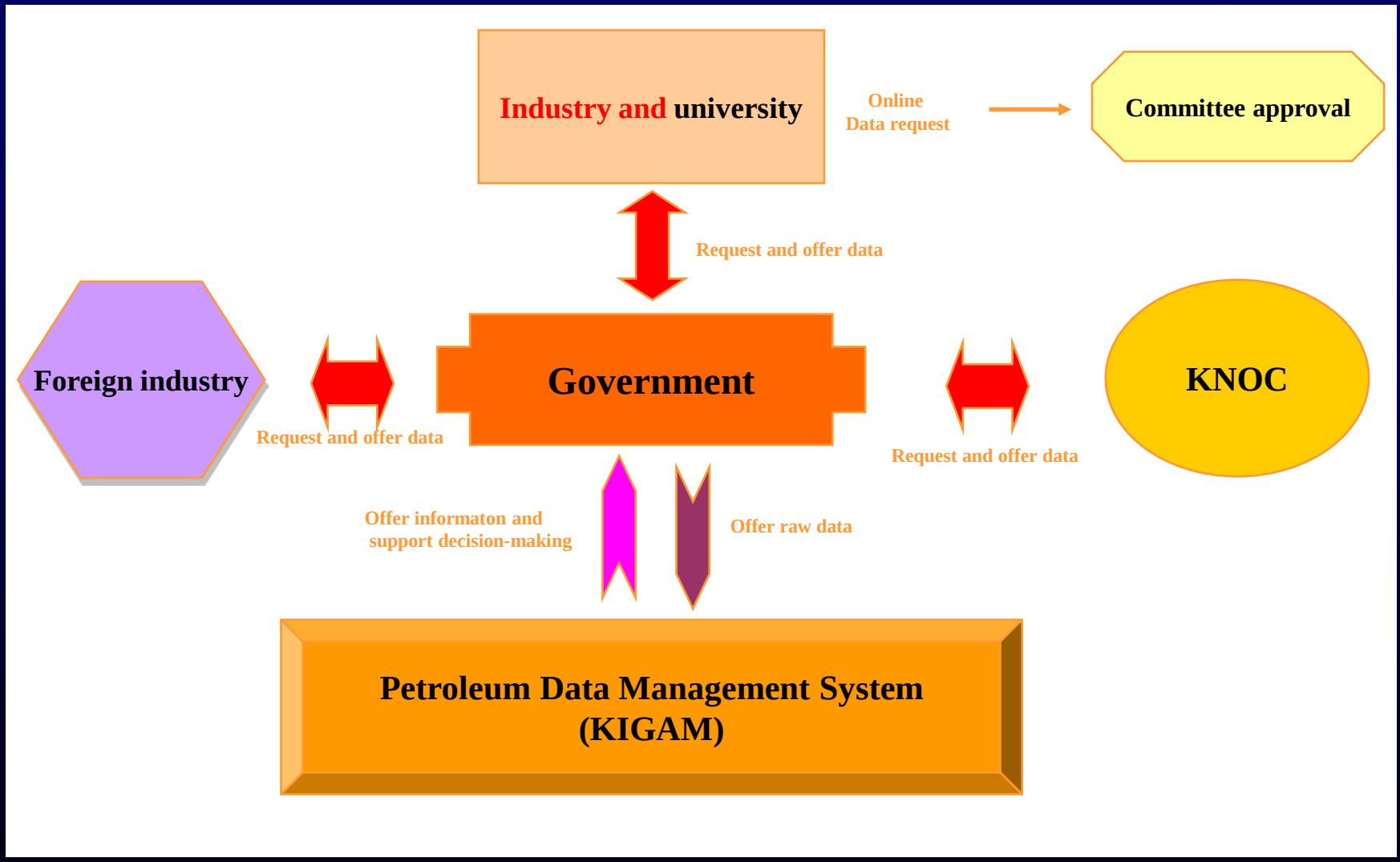
- Web/GIS Based System

Web-based GIS of PetoDB

INFORMATION ATTIBUTE-SUBJECT



MANAGEMENT OF DATEBASE SYSTEM



WORKS IN PROGRESS

- Begin to collect seismic and well data from KNOC as well as KIGAM, and input the data to the database system
- Make a system restricting users
- But, no metadata system for data distribution and information exchange.

Should learn from the CCOP metadata, So, I am here today.

♦THANK YOU

♦FOR ATTENTION !!

Presentation at CCOP_EPPM in 2011