



CHINA MINING 2014



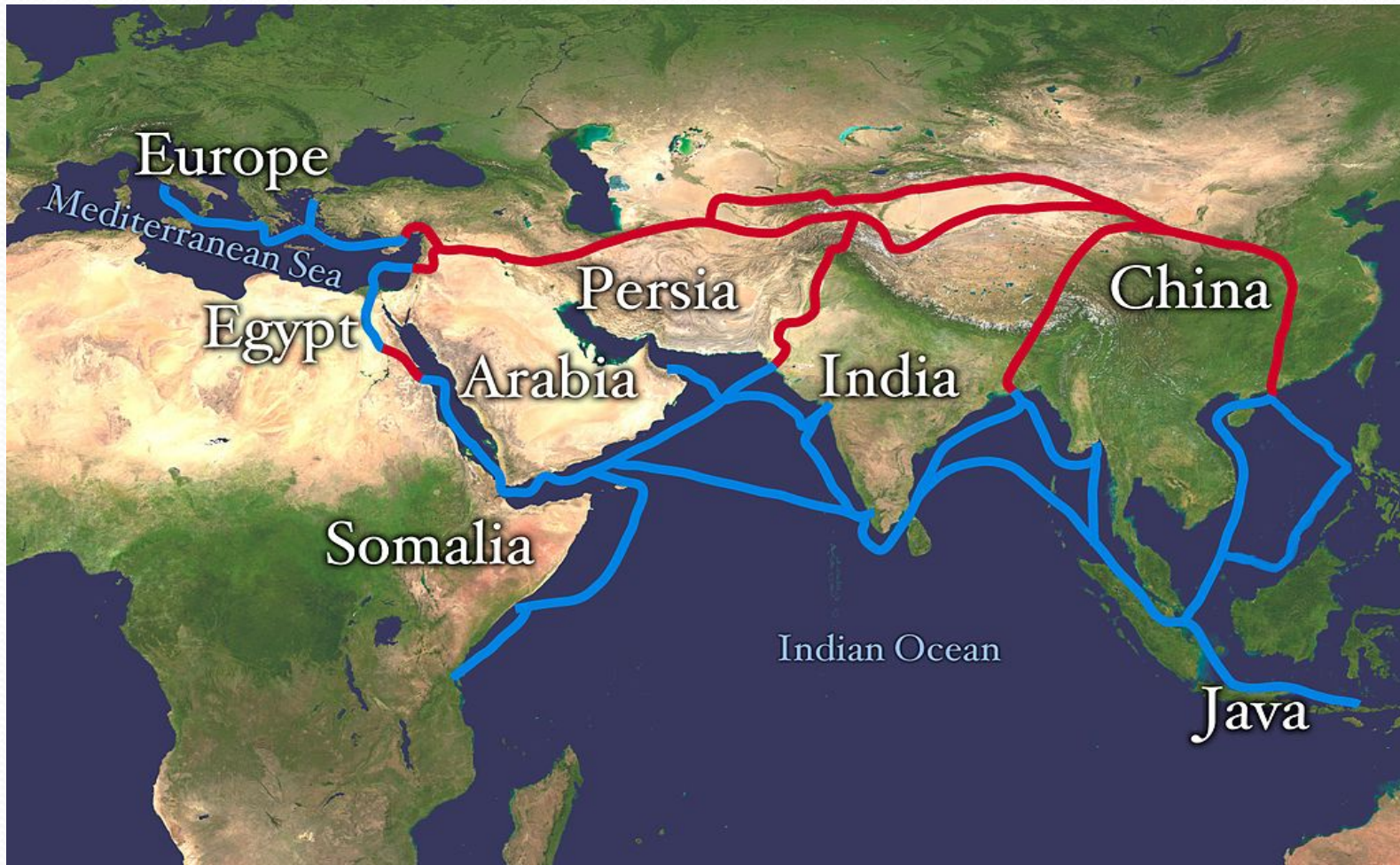
Dr. Imran Khan
Director General

Geological Survey of Pakistan

Silk Road Geosciences Belt

- Pakistan speaks highly of the strategic idea of Silk Road Economic Belt and cooperation in Geosciences, and considers it as an important program to realize transportation connection of Silk Road...This forum could help to build a closer relationship among alongside media

Cooperation in Geosciences among Silk Road Economic Belt Countries





*Mineral Resources of Pakistan:
Prospects and Challenges*



*Mineral Potential of Pakistan including
strategic Resources*



WAY FORWARD





Constitutional Apportionment - 1973

Federal:

- Geological surveys & discovery of mineral deposits.
- National policies / plans formulation and coordination at the national and international levels.

Federating Units:

- Mineral exploration and development.
- Regulation of mineral sector.
- Safety of exploration and mining operations.



巴基斯坦能源工作组第一次会议
China-Pakistan Joint Energy Working Group Meeting

2011年8月2日
August 2, 2011

中国·北京
Beijing, China

一、中国油气发展现状

(一) 油气资源

- 油气资源丰富, 查明程度有限:
- 石油勘探处于中期阶段, 探明储量保持低速增长
- 天然气勘探处于早期阶段, 探明储量低速增长
- 非常规天然气资源潜力巨大, 天然气勘探开发投资增加, 由于四川盆地的普光页岩气形成天然气日产量1万立方米以上。



**MEMORANDUM OF UNDERSTANDING (MOU)
ON GEOSCIENCES COOPERATION BETWEEN
THE CHINA GEOLOGICAL SURVEY**

**MINISTRY OF LAND & RESOURCES
GOVERNMENT OF THE PEOPLE'S REPUBLIC
OF CHINA**

&

**GEOLOGICAL SURVEY OF PAKISTAN
MINISTRY OF PETROLEUM &
NATURAL RESOURCES
GOVERNMENT OF THE ISLAMIC
REPUBLIC OF PAKISTAN**

Form of Cooperation

- Exchanges of scientific and technical information's;
- Exchange of study visits and scientists;
- Collaboration on individual research activities;
- Joint organizations of symposia, conferences workshops and lectures, and
- Other forms of cooperation's as may be mutually agreed between the Parties.

Areas of Cooperation

- Research and correlation on basic geology;
- Geological maps compilation and metallogenic correlation;
- Geo-database construction and sharing;
- Mineral resources assessment and exploration technology;
- Geological Environment and Geohydrology;
- Modern technology and methodology of geo-samples analyses; and
- Other areas of cooperation of mutual interest to the Parties.

Governing Law

- The joint scientific cooperative activities will be conducted in accordance with the applicable laws, statutes and regulations of the People's Republic of China and the Islamic Republic of Pakistan

Sources of Funding

- In accordance with the principle of equality and reciprocity, each Party will cover its own costs in carrying out cooperative projects, unless specific financing becomes available for selected projects of mutual interests. The terms of the funding will be established by the Parties in the signed implementing arrangements before the commencement of each activity

MoU Geochemical Investigations

**PROJECT COOPERATION AGREEMENT FOR
GEOCHEMICAL INVESTIGATIONS IN PAKISTAN**

BETWEEN

CHINA GEOLOGICAL SURVEY

AND

GEOLOGICAL SURVEY OF PAKISTAN

Purpose and Assignment of Cooperation

- Geochemical investigations in outcrop area
- Geochemical supports for potential mineral resources evaluation, study on environment and basic geology, enhancing the study degree of geological survey, environment geology, and serving for the development of the mineral sector in Pakistan

Working area

- Implement 1:1,000,000 (or 1:2,000,000) geochemical investigations on rivers sediments in outcrop area of entire Pakistan, with an area of about 600,000 km².
- Based on the 1:1,000,000 (or 1:2,000,000) geochemical investigations, 25⁰% priority area will be selected to implement 1:250,000 geochemical investigations on rivers sediments, with an area of about 100,000-150,000 km².

Main tasks

- Geo-referencing for geochemical investigations
- Geochemical characteristics of major geological bodies, from which to extract geological information for anomaly assessment.
- Geological database which includes geological, minerals, geochemical, geophysical and geological hazard data.
- Compile a series of geochemical maps, such as geochemical map, geochemical anomaly map and geochemical prospecting prediction map

Main tasks

- Geochemical analysis on ore prospecting geological conditions and the geochemical evaluation on potential of mineral resources

Responsibilities of Both Parties

- Responsible for sample analyses in China and Geoscience Lab. Pakistan, database building, map compiling, and writing work report
- Provide the relevant geological and mineral resource data for use in general project design, annual report and field work

Achievements and Intellectual Property Rights

- All the data, documents and achievements in the project should be shared by both parties, and both parties should not disclose the information obtained from the project to any third party without permission.
- The achievements will be mainly used for the scientific research and prospecting.



THANKS

