Data Collection: Challenges and Success Stories

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• Egyptian petroleum industry overview
• Data collection
• Data transparency and sharing
• GIS project milestones
• GIS implementation challenges
Structure of Petroleum Industry

- Egyptian General Petroleum Corporation (EGPC)
- Egyptian Natural Gas Holding Company (EGAS)
- Egyptian Petrochemical Holding Company (ECHEM)
- South Valley Petroleum Holding Company (GANOPE)
- Egyptian Mineral Resources Authorities (EMRA)

Joint Venture Companies
- Exploration & Production
- Investment Law Companies
- Transportation
- Public Sector Companies
- Refining
- Marketing & Distribution
Data transparency & Sharing
Prerequisite to all of the above is an optimal IT and data management environment...
Geo-PIM GIS Milestones

1st
Data Storage

2nd
Connect with Other databases

3rd
Business Intelligence Dashboard

4th
System Generalization

Decision Support Systems

EGPC Geo-PIM
Current System Stakeholders

petroleum database (i.e. Agreement, planning and project, Exploration and Production) since 1990 were collected and stored, providing users with map-based access to both spatial information and its related attributes.
GIS Implementation Challenges

- **Scattered & Missing Data**
  - Establishing Joint workforce GIS committee.

- **Complicated GIS Knowledge**
  - Helping Employees Get the most out of Technology.

- **Security Issue**
  - Applying highly protected standards to the info security system.

- **Visualization & Monitoring Issue**
  - Safety remote access in protected channels, including remote control.
Geo-PIM GIS Milestones

- 1st: Data Storage
- 2nd: Connect with Other databases
- 3rd: Business Intelligence Dashboard
- 4th: System Generalization
2nd & 3rd phase – Decision Support Systems

Single database image

Ministry of Petroleum & Mineral Resources

Administrative Data
Technical Data
smart Reports
ETC.

INTELLIGENT DASHBOARDS REPORTS, KPIS
Geo-PIM GIS Milestones

1st
Data Storage

2nd
Connect with Other databases

3rd
Business Intelligence Dashboard

4th
System Generalization

EGPC Geo-PIM
Phase 4 - GIS Generalization

GIS Network

IDSC
EGPC
EGAS
GANOPE
EMRA
ECHEM
THANK YOU FOR YOUR ATTENTION