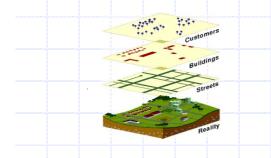
Assessment of GIS Adoption in Saudi Arabia: Obstacles and Challenges

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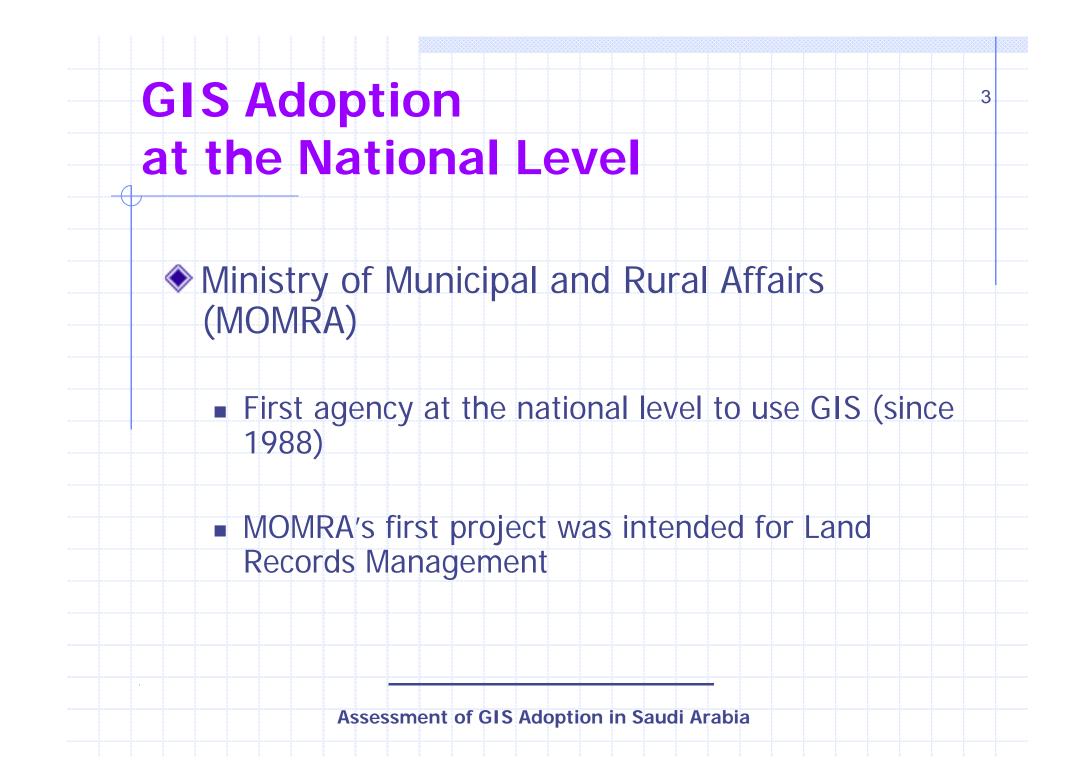


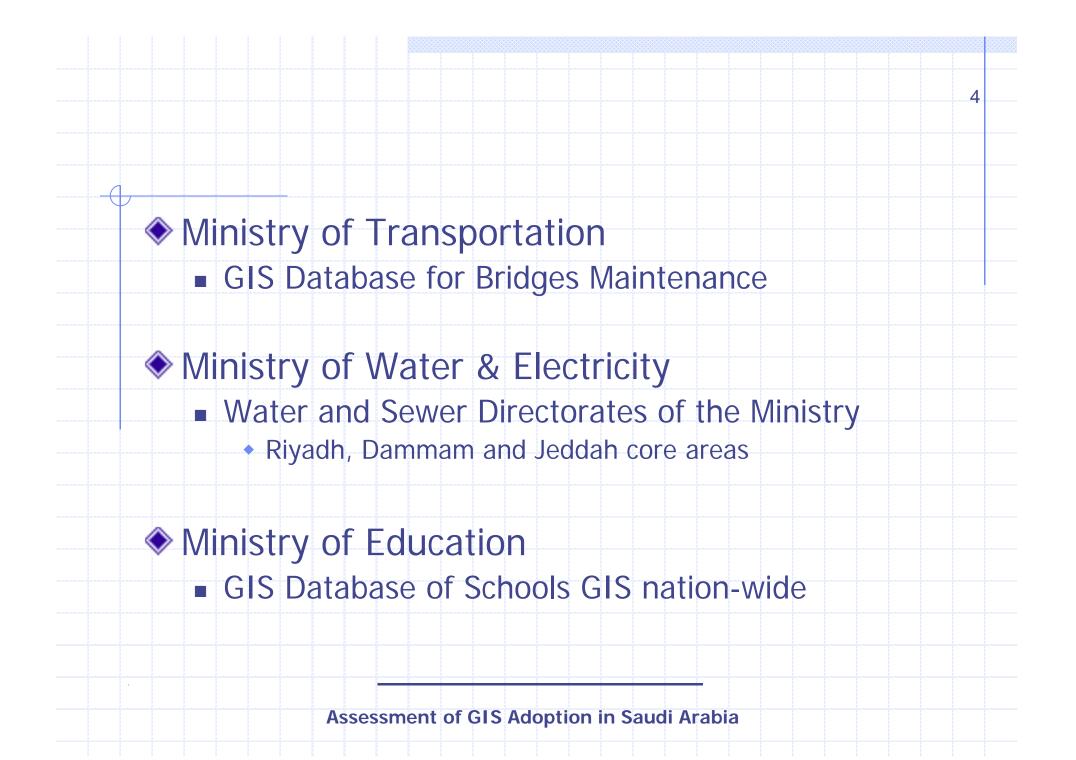
GIS Adoption in Saudi Arabia

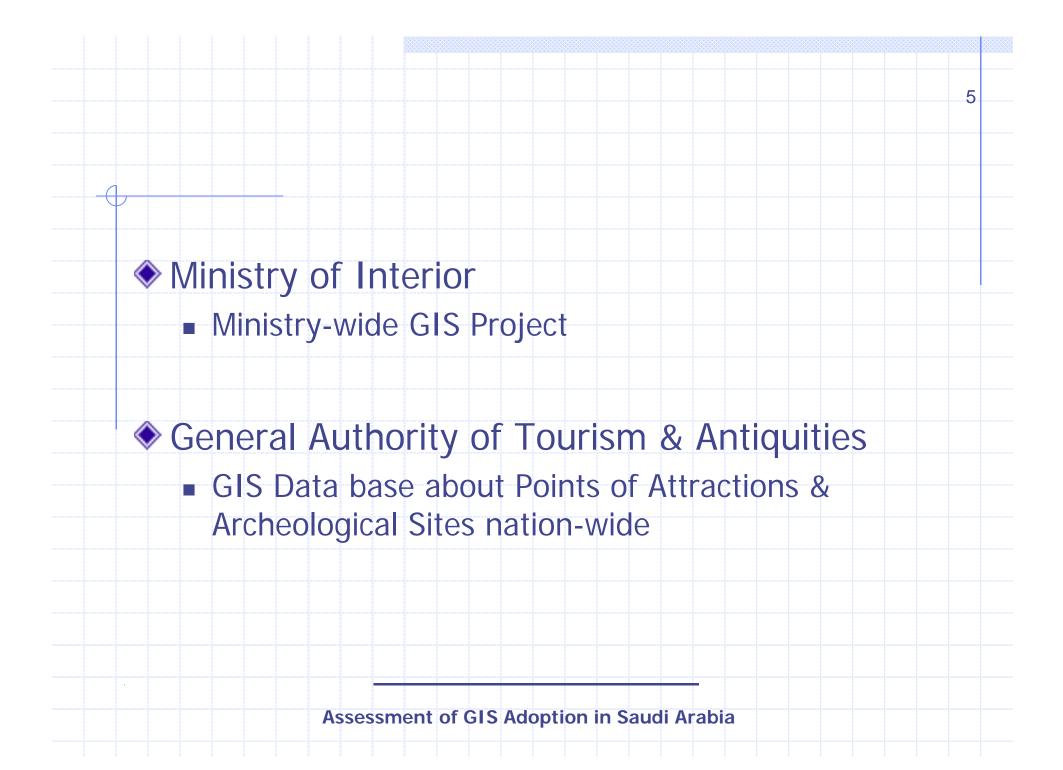
Numerous public and private agencies have adopted GIS in the country 2

GIS Adoption is at:

- The national and
- The local levels







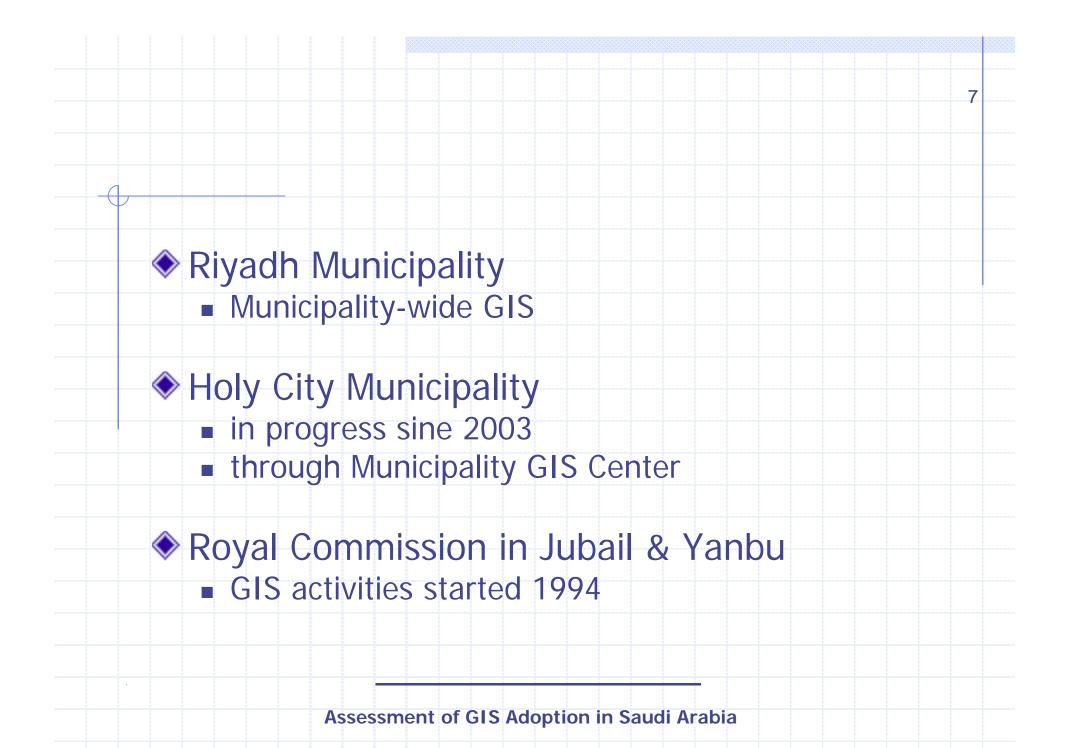
GIS Adoption at the Local Level

High Authority for the Development of Riyadh

- First in at the local level to use GIS (since 1986)
- Created a Digital Base Map of Riyadh

Dammam Municipality:

Municipality-wide GIS Project (started 2004)



Hasa Irrigation and Drainage Authority (HIDA) A comprehensive GIS project. First Phase: build base map of the agricultural oasis with the help of UN FAO King Faisal Specialist Hospital GIS Project to track spatial pattern of spread of cancer

Private Sector

- Saudi Electricity Company (SEC)
 - On-going Company-wide GIS Project
 - Covering: Eastern ; Central; Western; and Southern Regions

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ARAMCO e-Map Project:

- An ARAMCO-wide GIS Project
- in progress since 2001

Saudi Telecommunication Company (STC) GIS Project to geo-reference mobile towers

Challenges of GIS Adoption in Saudi Arabia

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Lack of Leadership and Coordination

 Too many projects in the country with no coordination or cooperation

Leads to loss of efforts & resources

Lack of Data

- Leads to collect data from scratch
- A major challenge in terms of cost and time
- Constitute about 80% of total expenditure



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Increase awareness of GIS

Establish a GIS National Steering Committee or Commission

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Secure human resources in GIS through

specialized GIS curricula & training in universities

