

QATAR GEOLOGICAL MAPPING PROJECT PHASE II NEWSLETTER

وزارة البلدية
Ministry of Municipality
دولة قطر • State of Qatar



Monday , July 29, 2024

1st Edition



Project Overview

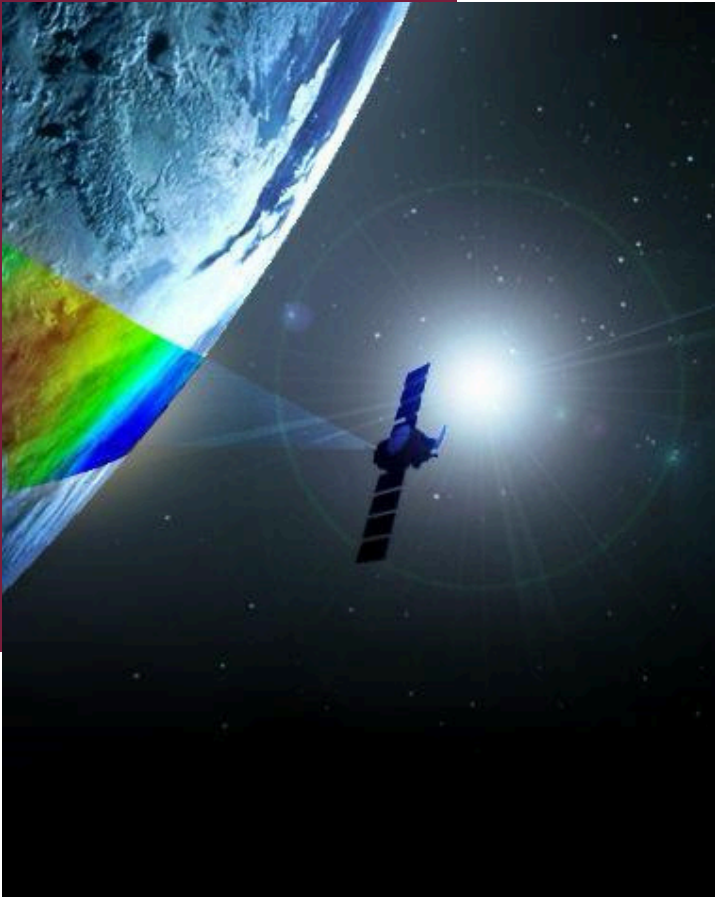
The project has been awarded to Survey Technologies, with implementation officially commencing by STS and other partners on January 29, 2024. Scheduled to run for 36 months, the project aims to produce detailed geological maps, develop 3D models for land formation analysis, and generate comprehensive scientific reports that will contribute to a precise geological database for the State of Qatar.

As part of Qatar's efforts to support sustainable development and progress toward its national goals, the Ministry of Municipality is focused on advancing the country's infrastructure through innovative research and scientific studies. One of the key projects under this initiative is the Qatar Geological Mapping Project – Phase Two (QGMP), a groundbreaking endeavor aimed at enhancing our understanding of Qatar's geological landscape and supporting infrastructure planning, construction, and natural resource management.



STS

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Advanced Technologies for Accurate Geological and Engineering Analysis

The project employs state-of-the-art geological and engineering technologies to ensure accuracy and reliability, including:

- Remote sensing via satellite imagery and aerial photography to monitor land formations and geological shifts.
- Geophysical surveys to analyze subsurface layers and geological structures.
- On-site geological field surveys to collect real-time data and assess various geological formations.
- Subsurface drilling investigation data, including the estimation of a variety of geological and geotechnical engineering characteristics

Project Objectives

- Developing high-resolution geological maps that provide valuable data for researchers, engineers, and urban planners.
- Creating advanced 3D geological models that enable precise analysis of underground formations and future geological shifts.
- Identifying and analyzing geological hazards, including sinkholes, cracks, and soil subsidence, to mitigate risks and develop preventative strategies.

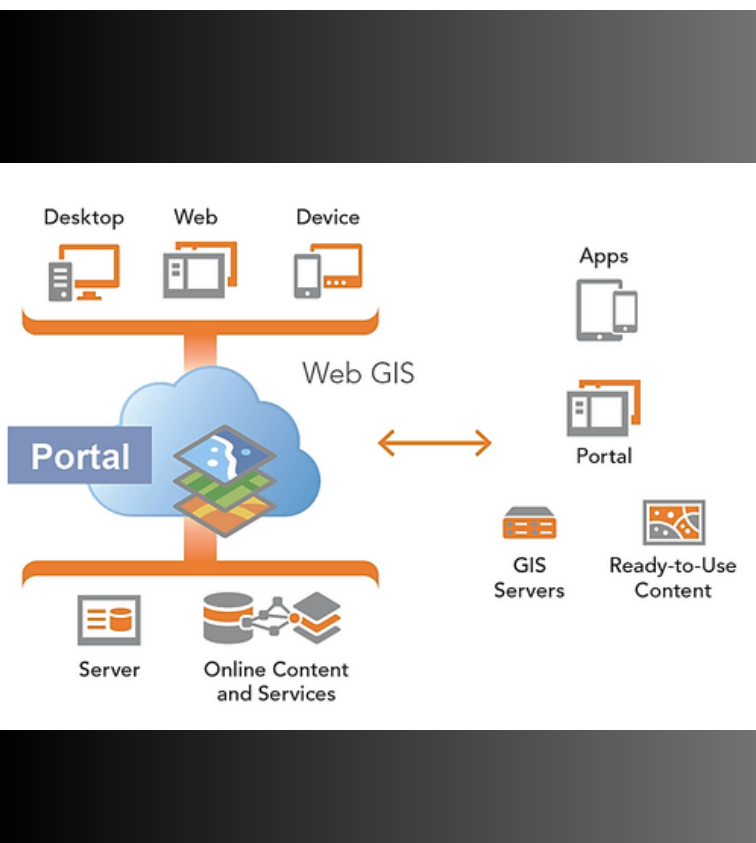


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A Digital Platform for Interactive Geological Data

One of the project's key deliverables will be an advanced digital portal, designed to provide easy access to Qatar's geological information. This user-friendly platform will cater to government institutions, engineering firms, academic researchers, and even the general public, facilitating access to essential geological data for decision-making and future studies.



Towards a Sustainable Infrastructure Future

The Qatar Geological Mapping Project – Phase Two is a milestone in the nation's infrastructure development journey. By integrating advanced geological data with urban planning and resource management, the project will:

- Improve construction efficiency and safety.
- Enhance the strategic utilization of natural resources.
- Provide early warning systems for geological hazards.
- Contribute to cost reduction in material imports.

Through this initiative, Qatar reaffirms its commitment to harnessing scientific innovation for sustainable development, ensuring a future-ready environment that meets the aspirations of generations to come.

