



Current and future operations for 2010

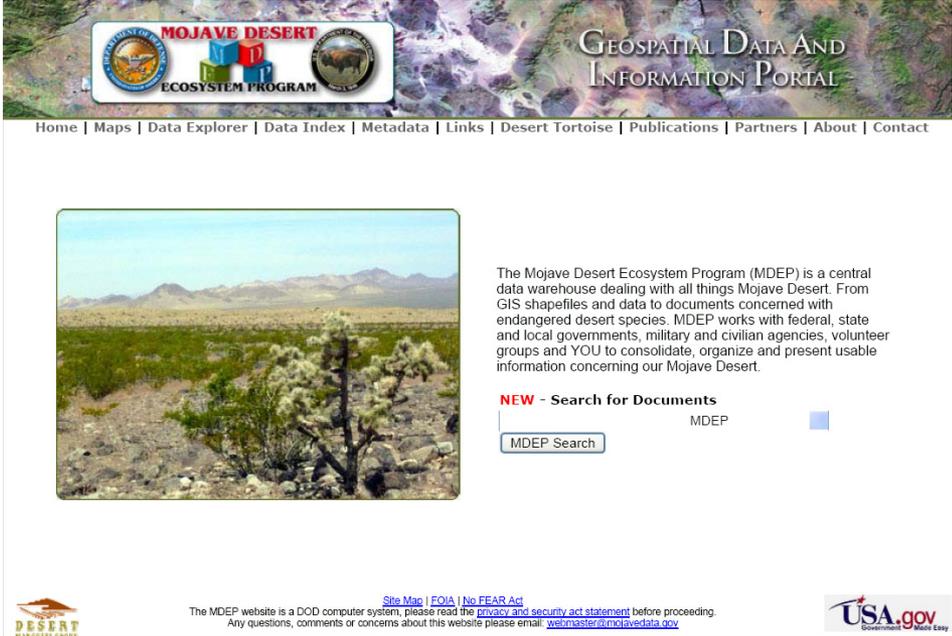


Supporting government agencies through geospatial solutions.

- MDEP is currently housed at the National Park Service building in Barstow, CA.
- The program is comprised of four positions that are fully staffed. Those position are:
 - GIS Analyst
 - Webmaster
 - Systems Administrator
 - Program Manager
- **Unique systems:**
 - T1 line the system supports
 - 12 terabytes of storage currently
 - ESRI ArcGIS software suite 9.3.1.
 - 60in large scale plotter
 - 36in large scale scanner

Current Operational Picture

- Provide a public facing portal for government data and information developed by partners and regional agency
- Offering accurate geospatial data, services and support to various government organizations
- Supporting various agencies with IT services and hardware utilization when requested.
- Hosting of data using the most current software solutions approved by government in compliance with various government data standards.



The screenshot displays the homepage of the Mojave Desert Ecosystem Program (MDEP) Geospatial Data and Information Portal. The header features the MDEP logo, which includes the Department of Defense, Department of the Interior, and Department of Energy logos, and the text "MOJAVE DESERT ECOSYSTEM PROGRAM". To the right, it says "GEOSPATIAL DATA AND INFORMATION PORTAL". Below the header is a navigation menu with links: Home | Maps | Data Explorer | Data Index | Metadata | Links | Desert Tortoise | Publications | Partners | About | Contact.

The main content area is split into two columns. The left column contains a photograph of a desert landscape with a Joshua tree in the foreground and mountains in the distance. The right column contains a text block: "The Mojave Desert Ecosystem Program (MDEP) is a central data warehouse dealing with all things Mojave Desert. From GIS shapefiles and data to documents concerned with endangered desert species. MDEP works with federal, state and local governments, military and civilian agencies, volunteer groups and YOU to consolidate, organize and present usable information concerning our Mojave Desert." Below this text is a search section with the heading "NEW - Search for Documents", the text "MDEP", and a search button labeled "MDEP Search".

At the bottom of the page, there is a footer with the MDEP logo on the left, a disclaimer: "The MDEP website is a DOD computer system, please read the [Site Map](#) | [FOIA](#) | [No FEAR Act](#) [privacy and security act statement](#) before proceeding. Any questions, comments or concerns about this website please email: webmaster@mojavedata.gov", and the USA.gov logo on the right.

Overview of Current Research

- MDEP has and will continue to research new technologies that benefit both our partner agencies and the public we serve.
- Some of the current research activities are:
 - Hardware and software solutions in mobile data collection while in remote environments.
 - Support newly developed national data repositories as a singular entity with unique and vast amounts of data for the Mojave region.
 - Continue to research new ways to distribute data to multiple users in the most flexible and efficient manor possible.
 - Support the development of technology tools that give decision makers greater insight into data on hand.

Mobile Application Research

- Systems and solutions in use today by field teams have become outdated.
- MDEP is researching new COTS technologies for the field to ensure data is collected with a high level of accuracy while providing a streamline process from the field to the end user. Examples are:
 - ArcPad
 - Pendragon
 - Custom cell phone applications
 - Various kinds of hardware infrastructure currently available*Results will be published and enterprise solutions will be made available soon.*



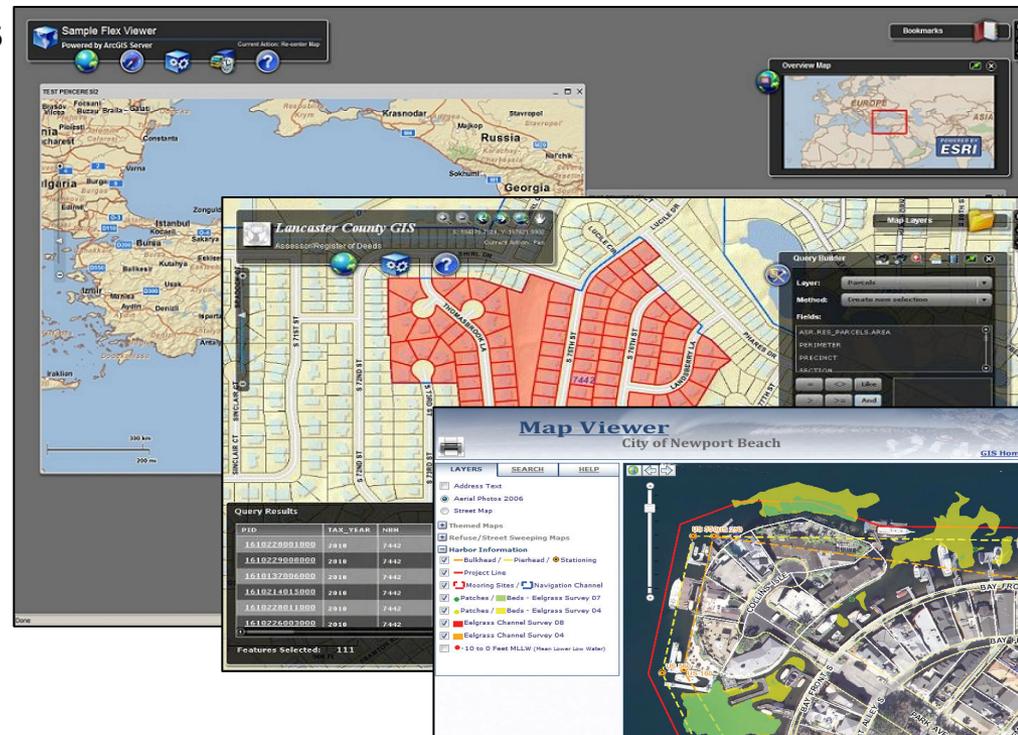
Temporal Mapping



- ArcGIS 9.4 will offer temporal mapping solutions for the first time
- Users will have the ability to look at geospatial data and perform geospatial analysis with a time element
 - ❖ It will be an especially useful tool in plant and wildlife tracking models. Researchers will be able to “animate” their models and get a better picture on how the species have progressed.
 - ❖ It will allow users to publish and query temporal web map services
 - ❖ Provides a better solution to create and manage time-based data.
 - ❖ We expect more advanced decision tools to come from this technology.

Implementation of Emerging Technologies

- MDEP is in the initial stages of revamping the way data is accessed from our systems.
 - The process of obtaining geospatial data will become more streamlined, easy to search, user friendly and current with software standards.
- » Implementation of Flex API maps will improve the service for the general user.
 - » Basic static maps will also be created and available in PDF form to download. Large scale reprints of these maps may also be available upon request.
 - » Implement technologies such as SharePoint, VM machines and other solutions to improve the user's productivity.



Two to Four Year Outlook of Goals

- MDEP is growing its services platform from strictly data hosting to include supporting more dynamic solutions such as:
 - Decision Support Systems (DSS)
 - Maintaining a local live access point for various national data repositories on the subject of Mojave Desert.
 - Customized Web-Based Mapping based around the new 9.4 ESRI solution
 - The ability to administer and support mobile solutions at an enterprise level.
 - Continue to provide a cost efficient solution while maintaining the highest quality data being both flexible and functional.