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Geospatial analytics in grants management
Quick reference guide

The Federal challenge

The Federal government continues to be challenged by a period of unprecedented spending, including the expansion of many grants-based programs. Whether it is to decrease gun violence, increase the use of health care-related IT, or bring high-speed rail to the heartland, the overall — and sometimes overlooked — goal of granting billions in tax dollars is to improve our country by proving and establishing a concept that lives long past the end of the funding. The Obama administration is expected to continue focusing on implementing a wide array of grants-based programs and initiatives aimed at improving efficiency and enhancing the delivery of services to citizens.

Why act now?

The administration has responded to demands to improve the performance of the Federal government through a "Lead, Learn, and Improve Outcomes" strategy:
• A new chief performance officer has been appointed by the president to drive this new initiative.
• Steps have been taken to bring more transparency to how all dollars, including grants, are being spent with new ways of publishing performance outcomes.
• The Federal budget is being scrutinized to weed out programs that are underperforming, duplicative, outdated, or simply not meeting the needs of the American people.

As a result, Federal agencies are evaluating their current grant allocations and making long-term investment decisions about where to target new and existing resources.

The greatest challenge lies in translating existing strategies into action and aligning agencies' grants management plans with their mission, high-priority programs, and objectives. The Federal government is at a turning point in which the need to view, understand, question, interpret, and visualize data exceeds, in many cases, the capabilities of existing investments.

The Deloitte difference

Deloitte's geospatial analytics solution offerings can help grant leaders analyze and gain new insights into where their grant dollars are going and determine the effectiveness of existing programs through a quick visualization of the demographic data behind the dollars.

• **Demonstrated approach** — As a leader in the field of data analytics, Deloitte has extensive experience helping commercial, public, and Federal organizations use cutting-edge geoanalytical capabilities to accurately account for resources, minimize fraud, monitor the progress and effectiveness of programs, and renew focus on mission-critical objectives. We offer a range of industry, technology, and functional experience to help our Federal clients improve outcomes and better deliver services to U.S. citizens.

A service offering designed to help your agency in its efforts to measure and make decisions based on grants allocation and management by:
• Enhancing transparency in the grant allocation and management process through the analysis of location-based data around grant programs and recipients.
• Supporting cost efficiency by prioritizing opportunities for process improvements.
• Improving data-driven decision making through a better understanding of existing grant footprints and more accurately identifying demographic gaps and targets.
• Improving cost allocation by monitoring spending against program adoption.
• Deter fraud, waste and abuse through identification of key trends not easily seen in other types of analyses.

- **Technology experience** — Deloitte has in-depth knowledge of geospatial analytics tools and technologies and relevant experience with a wide variety of platforms that facilitate the collection and in-depth analysis of location-based data. This includes traditional business intelligence models as well as open source tools that support web data visualization.
- **Experienced professionals** — Our Federal Geospatial Analytics practice is composed of professionals with significant experience in data dissemination and collaboration, data modeling, statistics, information architecture, and software engineering.

Experience and qualifications

For the Health and Human Services, Office of National Coordinator for Health Information Technology (HHS ONC), Deloitte helped the agency gather and analyze location-based grant recipient information to determine which communities would be best positioned to adopt the necessary infrastructure needed to transition to electronic medical records.

By mapping the disbursement of funds from multiple grant programs, Deloitte was able to provide insights into where resources are located to provide future community health IT programs; critical gaps in grant awardee programs; and where technology infrastructure exists — or is lacking — for future investments in health IT.

Outcome — HHS ONC is well positioned to classify counties as likely adopters of health IT programs based on grant programs and demographic data regarding size of community, current infrastructure, and type of provider.

Market offerings

A cross-section of skills and experience form the foundation of Deloitte's comprehensive service offerings that include:

- **Geospatial technology and business strategy** to help integrate geospatial technologies, data, and analysis.
- **Geospatial enterprise architecture** to define and document the structure, connections, and relationships of business processes, organizational work groups, data, applications, user interfaces, application interfaces, and IT infrastructure.
- **Spatial analysis** to determine possible relationships between the movement of people, goods or information in one location vs. another and visualize large volumes of complex data on maps.
- **Geospatial application development** for the creation of customized, easy-to-use applications that support agencies' specific needs for geospatial information.
- **Geo-interoperability engineering** to help agencies select the appropriate IT and geospatial standards and establish how they should be weaved into their overall architecture.
- **Geo-data, metadata, and database services** to provide agencies with a long-term blueprint for continual improvement in the way that they control, transform, manage, analyze, and share geospatial data.

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