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ArcNews

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Understanding Our World with Landsat Data and ArcGIS

By Jack Dangermond



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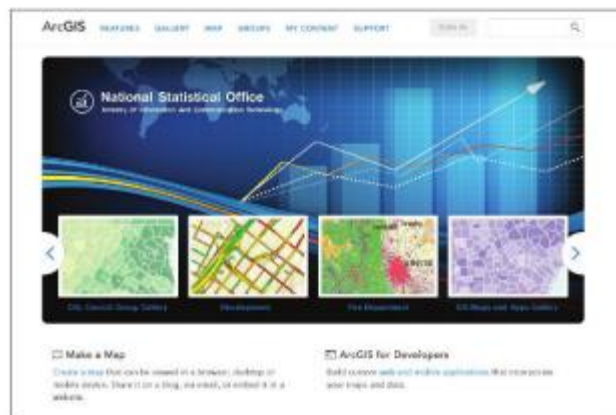
ArcGIS Tools and Hadoop Analyze Large Data Stores Breathe Life into Big Data

With data influx reaching exabyte levels, *big data* can easily become unmanageable and useless without the proper tools to analyze it fast. The strength of your data stewardship therefore depends on how much command you have over big data. To bypass the capacity limitations of working with billions of records at a time, Esri created GIS Tools for Hadoop, a toolkit for executing spatial analysis in the Hadoop environment and looping it back into ArcGIS.

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Portal for ArcGIS allows users to configure and deploy ArcGIS Online capabilities on premises—enabling organizations to easily integrate GIS everywhere.

US Navy Implements Broad-Based Sustainability Program

Energy awareness is becoming a major focus for the United States federal government as both costs and demand rise. Budget constraints across the military services put further emphasis on the need to secure the nation's energy supplies and create federally mandated programs.

The navy department known as CNIC (Commander, Navy Installation Command) has responded by creating the CNIC Energy Program, which was developed to provide guidance, policy, and tools for implementing broad-based energy reduction and sustainability practices within the navy—everything from replacing old windows and installing new heating systems to installing smart meters on buildings and seeking out and utilizing renewable and alternative sources, like wind turbines and solar panels. The goals of the program are to achieve by 2020 a 50 percent reduction in energy consumption and be at 50 percent usage of renewable energy.

To meet these goals in part and reduce energy demands across installations, CNIC has adopted a facility energy strategy that consists of innovation, expansion, and awareness. As the program expands, energy usage will become highly visible and the culture will change.

Advancing new technologies is key to the program's goals of streamlining the capture of data, leveraging business systems that contain energy consumption information, and combining them to create powerful tools for the program managers. The program aims to provide a means of measurement and verification and, most importantly, the knowledge base to make more informed decisions.

ArcGIS Streamlined Data Meets the Navy's Goals

The CNIC HQ Energy Program manager, Sandrine Schultz, had a vision of an overarching geospatial tool that would provide the navy with centralized information access for tracking, measuring, and planning energy usage to meet the program's goals. Previously, there was no effective way of visualizing and displaying the important tabular data in the business systems that tracked energy usage.

Schultz knew that Esri Platinum Partner Geographic Information Services, Inc. (GISI), of Birmingham, Alabama, was already supporting the Naval Facilities Engineering Command's

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The Navy Shore Geospatial Energy Module (NSGEM) dashboard provides a bread crumb tracker and date picker to drill down to the geographic extent and lens for specific charts and reports. The map viewer renders buildings according to benchmark score, and the Data Quality Score highlights the accuracy and completeness of the information behind the dashboard.

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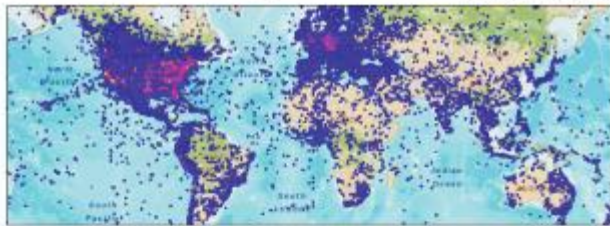
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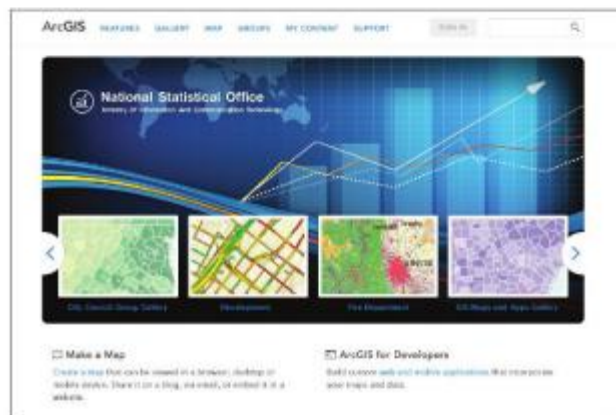
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