**Global Data Access for Mining (GDAm) Showcase—A Collaboration Tool Using Your Geologic Map Data**

By Willy Lynch

Esri (Environmental Systems Research Institute)
One International Court
Broomfield, CO 80021
Telephone: (303) 449-7779 ext. 8269
Fax: (303) 449-8830
email: wlynch@esri.com

**Introduction**

Global Data Access for Mining (GDAm) is a showcase geographic information system (GIS) Web application collaboration tool created by Esri’s Energy and Mining Industry Team. The application highlights using framework Esri GIS technology (fig. 1) to create a powerful tool for browsing, searching, and discovering data and seamlessly launching the data into a variety of workflows to access, analyze, and share data (fig. 2).

GDAm was created using Microsoft SharePoint 2010 and the new ArcGIS Map Web Parts and introduces the overall functionality of Esri’s framework GIS system technology implemented into a simple, rich Internet application (fig. 3). GDAm takes advantage of the power of ArcGIS Desktop and Server for authoring and serving a simulated mining company’s data combined with the collaboration tools of Microsoft SharePoint highlighting the independence of company data and applications using the power of services-oriented architecture (SOA).

Four sample mining industry workflows are included in the showcase, including Data Discovery and Access, Land Management, Geoscience, and Health & Safety. In all these examples, geologic map data can be easily and quickly added to add intelligent decision making (fig. 4). Of special note when serving your geologic maps is the need to secure your online map services (fig. 5). Special attention should be given to granting “cross domain” access to your map services by using the appropriate security settings (fig. 6).

**Demonstration**

This was both an oral presentation and a live digital demonstration of the application.

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**References**


Figure 1. Esri’s ArcGIS10. A complete GIS system for easy, powerful and everywhere GIS.

Figure 2. Esri’s core enterprise GIS functions of data management, analysis, mobile, and decision support to enable accurate data for scientifically defensible decisions.
Figure 3. Web development options from Esri (http://resources.esri.com).

Figure 4. An example of Global Data Access for Mining (GDAm) SharePoint Web application with a geologic map combined with other data layers of interest to mining users.
Figure 5. Examples of Web application server map service security for State and Federal agencies.

Figure 6. List of Web sites with resources for implementing cross-domain and client access policies from Adobe, Microsoft, and Esri.