The following was presented at DMT’12 (May 20-23, 2012).

The contents are provisional and will be superseded by a paper in the DMT’12 Proceedings.

See also earlier Proceedings (1997-2011) http://ngmdb.usgs.gov/info/dmt/
What’s New in ArcGIS 10.1
Authoring, Publishing, and Sharing Maps

Larry Batten ..... Account Manager – USGS & BLM
Willy Lynch ..... Energy-Mining Industry Team
What are we going to cover today?

• New features in ArcGIS 10.1 important to the DMT community
  – Sharing – data, analyses, services, capabilities
  – Lidar support

• Use case demonstration
  – Clancy Energy
ArcGIS

A Complete System for Geographic Information

Cloud

Online

Enterprise

Desktop

Mobile

Web
Sharing

- Information sharing is critical and has been the primary focus for the desktop team
- Transparency and easy information access are now expected
Sharing as a Package

Professional to Professional

ArcGIS Online

ArcGIS for Desktop

Map and Layer Packages

Sharing Tradecraft

New at 10.1
Tile, Geoprocessing & Locator Packages
Sharing Analysis

Package

Share as...
- Geoprocessing Package...
- Geoprocessing Service...

Service

GIS Professionals

Everyone

Analysis
Sharing GIS Capabilities to Cloud Servers

GIS Analyst

Map, Data & Geoprocessing

Firewall

Mobile, Web ... Clients

GIS Server
Sharing Online

- Share Geoprocessing Packages and Services through ArcGIS Online or your organizational site
ArcGIS Online for Everyone
ArcGIS Online for Everyone
LAS Dataset

- New data type
- File based
- Stores references to LAS files on disk
- Optionally reference breakline data
- Treats a collection of LAS files as one logical dataset
- Create interactively via Catalog
  Or
  Inside scripts and models
  with GP tools
LiDAR as Image Services
Symbolizing LAS Datasets
LAS Dataset - Analysis

- Derive surfaces
  - LAS Dataset As Raster
  - LAS Dataset As TIN
- Direct analysis
  - Interpolate Shape
  - Add Surface Information
  - Line Of Sight
  - Skyline
  - Locate Outliers
- Rasterize on point metrics
  - LAS Point Statistics As Raster
Live Seminar: Working with Lidar Data in ArcGIS 10.1

Presented by: Lindsay Weitz & Melanie Harlow

Date: Thursday, May 24, 2012

Times: 9 AM, 11 AM, & 3 PM - Pacific Time (US & Canada)
      12 PM, 2 PM, & 6 PM - Eastern Time (US & Canada)

Overview: Learn about new and improved tools to conduct analysis and manage, visualize, and disseminate lidar data.

For more information:
http://training.esri.com/gateway/index.cfm
LiDAR Tools support “Geologic Point Clouds”

Larry:
“I'm at the Digital Mapping Techniques conference. They are discussing methods of 3D modeling of geologic layers. Could they use 3D points to create surfaces using the Lidar tools? The point clusters could have a geologic unit designation similar to a Lidar classification. They would store the points and generate geo-surfaces. “

Peter Becker:
“Yes, there are possibilities for using LAS in such ways. It was something I was suggesting to the Bathymetry group. For example, from the source create a derived dataset as a LAS file purely for visualization and analysis purposes. Some tools would need to be developed.”

If you are interested, please let Larry Batten know...
Demonstration

Clancy Energy

One Map

Smartphones

Tablets

Social media

Websites

Desktop

Browsers

ArcGIS Online