Energy Industry Metadata Standard Initiative

- **Recap:** The Vision *(2 perspectives)*
  - The Approach
  - Deliverables

- **Status:** Recent Progress
  - Participants

- **Next Steps**
Recap: The Vision

Realize metadata standards and guidelines which enable stakeholders in the energy industry ("the community") to effectively and efficiently discover, evaluate, and retrieve information resources.

The standards and guidelines will support both proprietary data management needs, and exchange of data between and within organizations.

Leverage existing standards to encourage adoption within the community and integration into the business, and exploit existing organizational resources needed for governance and long-term maintenance.
The Vision: Another Perspective

Metadata harvesting: Use cases for an exchange standard
The Approach

**Build on Existing Standards -**

- ISO 19115/19119 metadata standards for geographic information – internationally accepted

- **Existing profiles:**
  - North American Profile (NAP) - adapts 19115 to FGDC standard
  - European INSPIRE guidelines
  - ANZLIC Profile - Australia, New Zealand

- **Deliver “Energy Industry Profile” (EIP) v1.0** based on energy “community” requirements and best practices gleaned from existing profiles

Top-level Categories

- Metadata Reference
- Application Schema
- Content
- Distribution
- Identification
- Portrayal Catalogue
- Data Quality
- Spatial Reference System
- Metadata Extension
- Spatial Representation

Example attributes

- Title
- Author
- Publication date
- Abstract
- Bounding coordinates
- Keywords
- Point of contact
- Source(s) used
- Processing history
- Coordinate ref. system
- Geodetic datum
Deliverables

1. EIP v1.0 Documentation
   a) Profile Specification *(normative document)*
   b) Implementation Guidelines
      • Reference selected Exemplars

2. Published Exemplars
   a) Data/Dataset/Information resource
   b) Associated XML conforming to EIP v1.0
      – Invite donation of datasets, database extracts, or information resources for use & publication as an exemplar
      – Engage donating organization during metadata creation as test of EIP v1.0
Status: Recent Progress

• **Requirements Gathering** (Jan 29 – Feb 28)
  - Request for Comment (RFC) distributed to Active Participants
  - RFC provided two input methods:
    1. *Questionnaire seeking input on metadata requirements* *(required no familiarity with ISO standard)*
    2. *Detailed spreadsheet input form with ISO attributes and obligation levels* *(required knowledge of ISO standard)*

• **Compilation of input from RFC completed**
  - Submission received from 16 Active Participants

• **Initiated development of Profile Specification document & acquisition of exemplars**
Participants

Active Participants (SMEs)

AAPG
Apache
Arizona State Geol. Survey
Boise State Univ.
Carbon Lifecycle Technology
ConocoPhillips
DCP Midstream
Deloitte Services LP
Devon Energy
ETL Solutions
Exprodat
ExxonMobil
First American Spatial Solutions
Flare Solutions
Fugro Robertson
Geoscience Australia
Geosoft
Ies Brazil Consulting & Services
IHS Energy
Maersk Oil
New Century Software
North West Geomatics
Oracle
ORNL
P2 Energy Solutions
PEMEX
PennWell
PetroWEB
Pioneer Natural Resources
PPDM
Premiere Consulting Group
SAS Global Oil & Gas
Schlumberger
Shell
Univ. of Auckland, NZ
Virginia Dept of MM&E
Wood Mackenzie

Steering Team

Dave Danko, ESRI
Lisa Derenthal, Gimmal
Alan Doniger, Energistics
Robert Graham, BHP Billiton
Scott Hills, Chevron
Steve Richard, AZ Geol Survey

1 Energistics member; **Bold italics**: Accepted invitation to participate in the recent RFC
Next Steps

- **Draft EIP v1.0-Release Candidate documentation**
  Profile Normative and Guidelines documents

- **Obtain donated exemplars**
  … and work with donors to create EIP v1.0-RC conformant metadata

- **Review EIP v1.0-RC with Energistics Asset & Data Management SIG**
  Secure concurrence to distribute RC for community comment

- **Distribute EIP v1.0-RC**
  … in June 2010 for community comment
Initiative Timeline

- **2009**
  - Metadata Profile Development

- **2010**
  - Status Report @ PUG 2010
  - SIG Reviews
  - Stakeholder Reviews
  - We are here
  - Status Report @ ESRI UC 2010
  - Profile 1.0 Published
  - Pilot Projects

© Energistics 2010
For more information ...

- Go to [www.energistics.org](http://www.energistics.org)
  - Asset and Data Management SIG under Communities

- Email: [metadata@energistics.org](mailto:metadata@energistics.org) or [alan.doniger@energistics.org](mailto:alan.doniger@energistics.org) or [sjhills@chevron.com](mailto:sjhills@chevron.com)