**Breakout Session Descriptions**

**Tools and Applications**

*What tools and applications are needed to support organizations in moving forward with ISO metadata implementation? How can the Geospatial Platform be leveraged?*

Needs raised by NSDI metadata community:
- metadata editor that supports workflow and produces generic (vs profiled) ISO metadata
- ISO metadata validation tool or service that provides easily understood error messages
- guidance on or application for applying stylesheets to the metadata record
- online application for the conversion and update of CSDGM to ISO
- application for producing Project Open Data (POD) JSON metadata from original metadata
- better access to standardized vocabularies for populating keywords
- support for the documentation of services

**Education and Outreach**

*What education and outreach efforts and resources are needed to support organizations in moving forward with ISO metadata implementation?*

Needs raised by NSDI metadata community:
- listserver or other communications network that enables participants to share questions, answers, experiences, available resources, events, etc.
- user-friendly, navigable reference doc or application similar to CSDGM workbook
- guidance on documenting services and other non-data geospatial resources
- guidance on populating and utilizing Geospatial Platform capabilities
- ISO metadata training and trainers

**Policy and Planning**

*What policy and planning efforts and resources are needed to support organizations in moving forward with ISO metadata implementation?*

Needs raised by NSDI metadata community:
- compelling reason to change to the ISO metadata standard
- practical guidance for making organizational change and creating policy
- job descriptions and performance metrics that build organizational ISO capabilities
- resources to support the time, tools, and training required to implement ISO
- promoting value and documentation of services and Geospatial Platform capabilities