

Esri Response

Canada – U.S. Geospatial Software Developers Summit: Implementation of CSRS and NSRS Modernization
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Transformations between epochs

- Esri plans to implement the IFDM by 2025
 - Usage via toolsets in ArcGIS
 - No on-the-fly capability
- NGS should provide:
 - Beta IFDM in OGC DMFM and GGXF format
 - Comprehensive IFDM documentation
 - NGS user software
 - Suite of comprehensive test cases
 - Details of proposed updates to IFDM
 - Backwards compatibility?

Grid formats and model representation standards

- Esri plans to adopt OGC DMFM and GGXF
 - Esri is an active participant on OGC
 - Contributing member on DMFM project team
 - Contributing member on GGXF project team
- See previous slide for NGS deliverables

Timelines

- GGXF

- Approximately one year after release
- Subject to Esri software release cycle

- DMFM

- About one to two years
- Contingent on development of time-based functionality and tools

Projected Coordinates format

- Esri will apply EPSG definitions
 - Likely to be Well Known Text, version 2 (WKT2)
 - Esri software has WKT2 read/write capability
 - Implementation after 1-2 software releases after EPSG release
- Esri can develop using beta information
 - CRS, transformation, or file name changes must be clearly communicated
 - Changes after software release are problematic
 - NGS/Industry collaboration on file-naming?

Data and tool Access

- Esri prefers to have access to official NGS products
 - Will build applications and tools directly accessing these products
- NGS/CGS to provide:
 - WKT2 versions of the transformations
 - NSRS product extents, accuracies, usages
- Likely will not use NGS/CGS web services

Additional questions or comments

- None

