The following was presented at DMT‘21 (June 7 - 10, 2021 - A Virtual Event)

The contents of this document are provisional

See Presentations and Proceedings from the DMT Meetings (1997-2021)

http://ngmdb.usgs.gov/info/dmt/
The NCGMP’s U.S. GeoFramework Initiative: History, Implementation, and Looking to 2030

Jenna Shelton, Program Officer
U.S. GeoFramework Initiative, NCGMP
The US GeoFramework Initiative will build on the National Geologic Map Database Phase 3 concept to construct a multi-resolution, seamless, national 2D/3D geologic framework by leveraging existing and new geologic mapping by the USGS NCGMP and state geological surveys to provide new syntheses and enhanced databases to support scientific discovery and informed decision-making.
“NGMDBG Phase Three Concept” as defined in 2000

- Built from edge-matched geologic maps at various scales,
- Managed and accessed as a coherent body of map information, not just as a set of discrete map products,
- Updated by mappers and/or a committee, "on the fly" when new information becomes available,
- Standardized, adhering to a standard data model and with standard scientific terminology, and
- Available to users via Internet browsers and common GIS tools (e.g., ArcExplorer).

Origins of the Initiative

• There was a $10M increase in the NCMGP allocation in FY2020 to support the US GeoFramework Initiative:
  • “National Cooperative Geologic Mapping is funded at $34,397,000 which provides funding for Phase Three of the National Geologic Map Database as outlined in House Report 116-100.”

• House Report 116-100 stated:
  • “This increase provides an additional $10,000,000 to support launch of Phase Three of the National Geologic Map Database that will bring together detailed national and continental-resolution 2D and 3D information produced throughout the Survey and by federal and state partners.”

• House Report 116-448 (FY2021) language describing this NCGMP allocation increase that is cited above is listed below:
  • The recommendation does not accept any of the proposed program reductions and includes $40,685,000 for the National Geologic Mapping Program, $6,288,000 above the enacted level. This increase includes fixed costs and provides $6,000,000 above the enacted level to accelerate new mapping and sustain Phase Three of the National Geologic Map Database
State, Academic, and Federal Activities: the U.S. GeoFramework Initiative

National Cooperative Geologic Mapping Program Office
Acting US GeoFramework Initiative Coordinator: Jenna Shelton

STATEMAP-Initiative Activities
Admin Lead: Mike Marketti
Principal Science Advisor: Gale Blackmer

EDMAP-Initiative Activities
Admin Lead: Mike Marketti
Principal Academic Advisor: Ed Robeck

Federal

National Geologic Map Database (NGMDB)
Lead: Dave Soller

National Geologic Synthesis
Lead: Randy Schumann
US GeoFramework Initiative FY2020 – FY2021 Timeline

PROGRAM OFFICE ACTIONS
- Initiative Inception
- Feb 10 Denver Workshop
- FY20 Supplemental STATEMAP PA
- FY20 Federal Workplans Developed
- FY21 FEDMAP Prospectus Released
- FY20 STATEMAP and EDMAP
- FY21 STATEMAP PA Released
- FY21 Federal Workplans Developed
- FY21 STATEMAP PA Closed
- Coordinator On Board
- Component Reviews
- 2nd NCGMP Strategic Planning Workshop
- Initiative Sessions at DMT

COMMUNITY ACTIONS
- FY20 NCGMP Allocation Defined
- FY21 NCGMP Allocation Defined
- Outline Due
- Section Drafts Due
- Review Complete
- Revisions Due
- Publication Ready

US GeoFramework Implementation Plan Development
2nd Strategic Planning Workshop: Implementing the US GeoFramework Initiative

- 150 USGS, AASG members in attendance
- Discussed the history of the Initiative, connecting the Initiative to societal needs, and the four major components of the Initiative
- Day three devoted to Implementation Plan
Four Major Components:

The 2D Component of US GeoFramework: Strategy for compiling national surface and near-surface geologic map databases

The 3D Component of the US GeoFramework: Strategy for develop and serving detailed, regional, national, or continental-resolution 3D geologic information produced throughout the USGS and by federal and state partners

2020-2030 National Cooperative Geologic Mapping Program

Implementation Plan for the National Cooperative Geologic Mapping Program’s U.S. GeoFramework

Initiative: Constructing a 2D/3D National Framework

Model by 2030.

Implementation Plan for the Initiative

Four Major Components:

The NGMDB Component of US GeoFramework: mechanisms for delivering vector and raster geologic map data for display, analysis, and download

The STATEMAP and NCGMP Component of the US GeoFramework: Facilitate Coordination to Implement and Accomplish US GeoFramework Initiative

2020-2030 National Cooperative Geologic Mapping Program

Implementation Plan for the National Cooperative


US GeoFramework Initiative FY2022 Timeline

PROGRAM OFFICE ACTIONS

- FY22 STATEMAP/EDMAP PA Closes
- FY22 NGMIP Allocation Defined
- US GeoFramework Initiative Regional Meeting at GIC

COMMUNITY ACTIONS

- FY23 USGI Prospectus Released
- US GeoFramework Initiative Workshop
- FY23 STATEMAP/EDMAP PAs Released

Timeline:
- June
- July
- August
Beyond FY22

• Bi-annual workshops, sessions at conferences and workshops

• Changes to STATEMAP and EDMAP PAs

• Diversity, Equity, and Inclusion (DEI) Pilot, tracking success via EDMAP proposals
Thank you!