



Natural Resources Conservation Service

National Geospatial Center of Excellence

Mission

The mission of the National Geospatial Center of Excellence (NGCE) is to provide the USDA NRCS with technical leadership and expertise in geosciences: mapping science, cartography, geographic information systems (GIS), aerial photography, remote sensing and global positioning systems (GPS), elevation and imagery data, natural resources data, and geospatial technology. The NGCE provides accessible, up-to-date, authoritative geospatial data and value-added geospatial services based on the best geosciences.

Vision

Lead USDA and NRCS in delivering enterprise geospatial solutions.

NGCE Business Plan

Under direction of the Deputy Chief, SSRA, the NGCE is reorganized to meet NRCS geospatial needs. A driving force for the NGCE is to help address the geospatial needs of the department and its agencies.

The business plan focuses on the four core business areas: Geospatial data, technology, services, and governance. These core business areas are linked to the agency's key business lines through the national strategic plan and the NRCS business plan.

Key Services

- Serve as a focal point for developing NRCS geospatial business requirements
- Provide conservation enabling value-added geospatial products
- Serve as the Geospatial Science Officer for the agency
- Develop and support strategies for the acquisition, integration, and delivery of geospatial data via the Geospatial Data Gateway and other means
- Support and provide leadership in identifying high-quality digital orthoimagery for all NRCS program applications
- Provide leadership for national data layers development for the NRCS and Conservation Desktop, ensuring program needs and standards are met
- Evaluate and recommend GIS/GPS technology and develop GIS/GPS procedures, applications, and tools
- Provide technical support for GIS and Global Navigation Satellite Systems (GNSS)
- Develop and lead a centralized elevation data strategy for NRCS business applications to include LiDAR, IFSAR, and USGS DEMs
- Provide services to the NRI business program, the three Remote Sensing labs, and State resources inventory coordinators
- Provide leadership in the development of business level data, e.g., Easements, Service Center Agency boundaries, WBD enterprise geodatabases for all NRCS program applications
- Support the National Cooperative Soil Survey Program and Web Soil Survey
- Provide leadership and guidance in conducting training and webinars on GIS/GPS and other mapping sciences
- Foster Federal and other partnerships for geospatial business solutions such as NGCE's partnership with the Farm Service Agency–Aerial Photography Field Office, USGS, and 3D Elevation Program (3DEP)
- Provide training and technology transfer on advanced geospatial tools, software, and technologies
- Provide NRCS ESRI® Helpdesk support and maintain a core of geospatial experts
- Develop geospatial services via enterprise data centers
- Provide technical leadership for the NRCS GeoPortal, a map-centric content management system for showing geospatial data, services, maps, and applications within NRCS



United States Department of Agriculture

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**Science First
Geospatial Solutions**

Geospatial Technology

Geographic Information Systems
Web Maps
Data Marts and Data Warehouses
Global Positioning Systems

Geospatial Support

Subject Matter Experts
Analysis
NRI and Soils Support

Geospatial Data and Services

Web Map Services
High Resolution Imagery
Elevation Data

Geospatial Governance

Policy
Geospatial Standards
Best Management Practices and Processes
Geospatial Strategy

Helping people help the land.

USDA is an equal opportunity employer and provider.

USDA is an equal opportunity provider, employer, and lender.