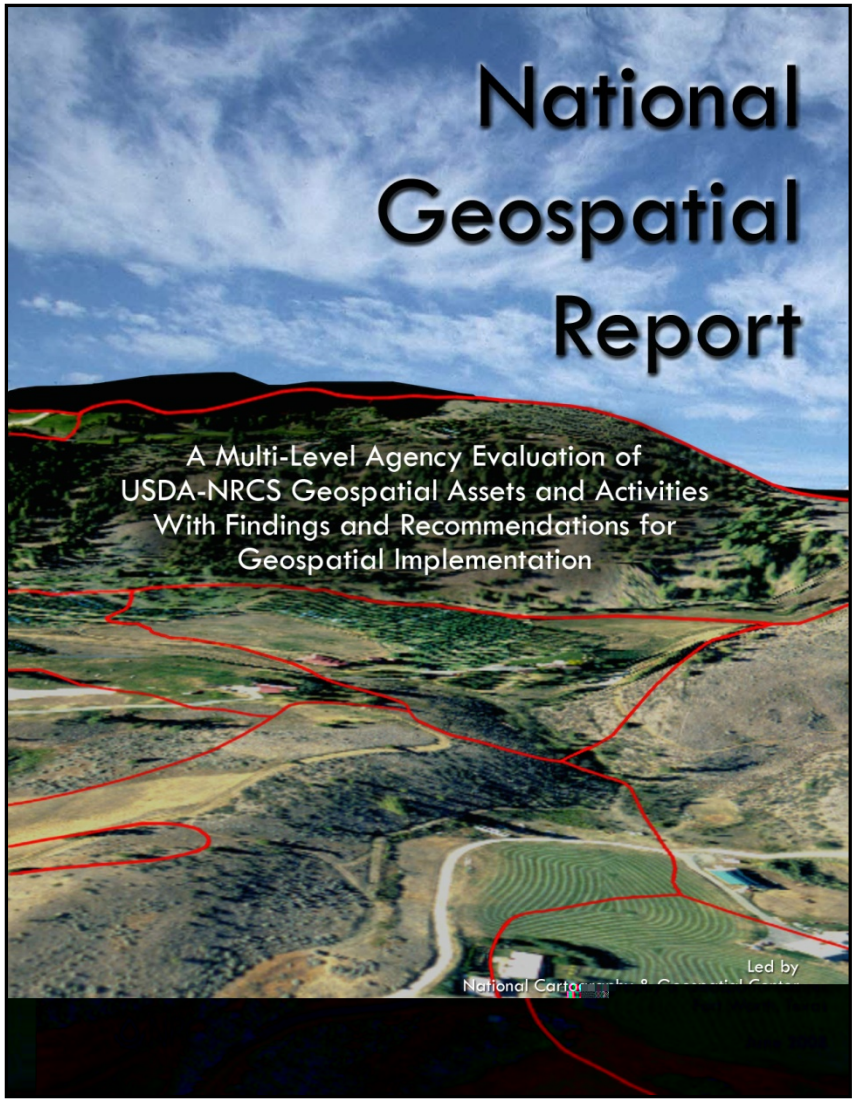
SRCSSC - NCGC Activities

Presents:

- Findings of the Geospatial Report
- 6 Global Geo-Recommendations
- NCGC Activities
- July 15, 2008
- Tommie L. Parham – NCGC Director

National Geospatial Report



- 1 Year in development
- Completed June 2008
- A multi-level Agency evaluation of USDA - NRCS geospatial assets and activities with findings and recommendations for geospatial implementation

National Geospatial Report

Requested by:

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National Cartography & Geospatial Center

Assisted by:

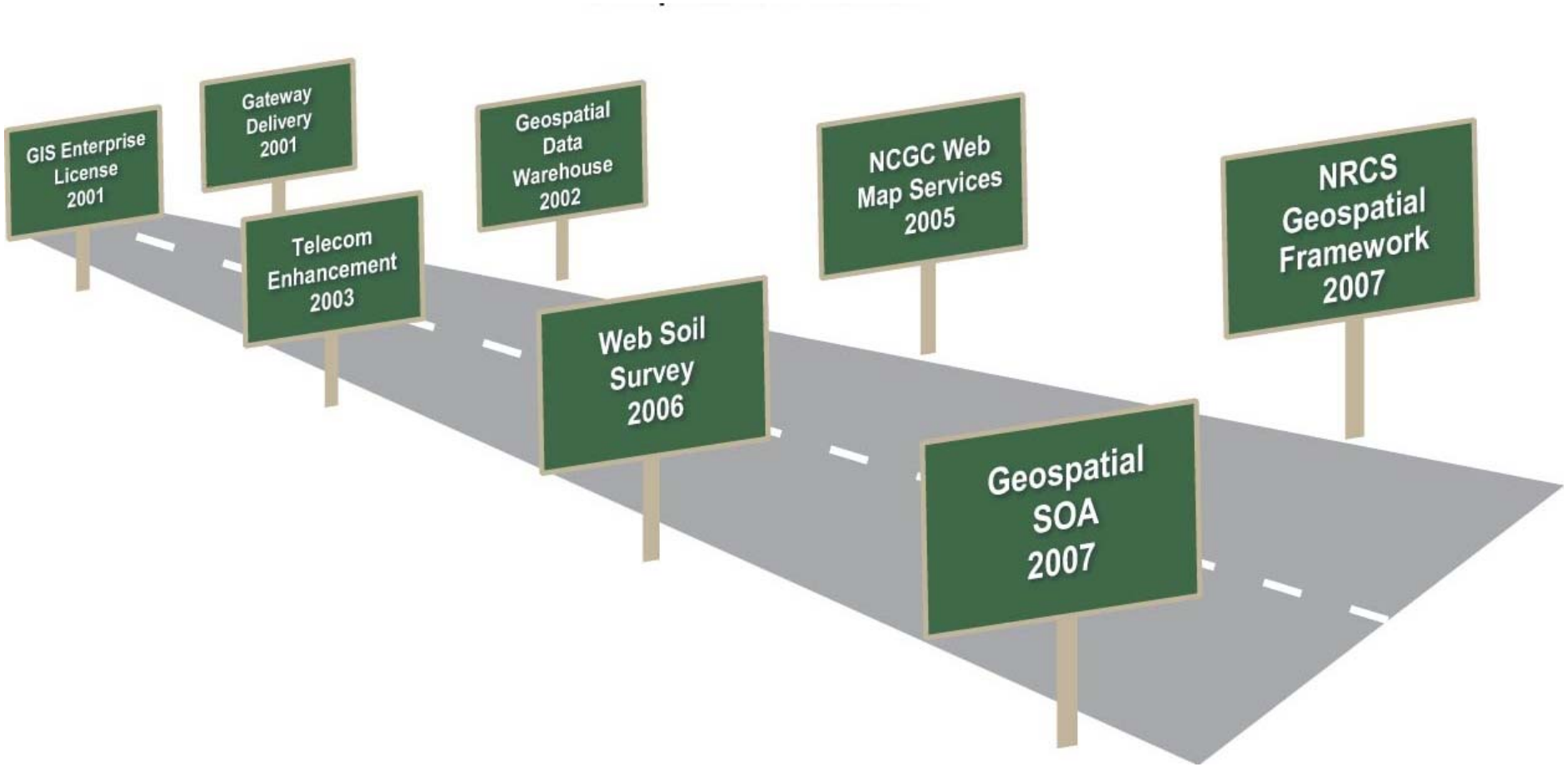
10 member Advisory Team
Additional contributors from all levels of NRCS

National Geospatial Report

Presents:

- ❑ Findings of the geospatial listening sessions
- ❑ Value and importance of geospatial assets
- ❑ Advantages of a Geospatial Framework
- ❑ 3 geospatial outcomes
- ❑ 6 global recommendations

Geospatial Mile Markers



National Geospatial Report

Business Drivers

- Resource limitations
- Progress Reporting
- One Conservation Plan
- Federal Enterprise Architecture
- Data Management

Geospatial Challenges

- Infrastructure
- Planning & Investment
- Human Capital

National Geospatial Report

Geospatial listening sessions, Agency wide

Headquarters, Centers, States, Service Centers

Geospatial Expectations

NRCS geospatial consumers expect accessible, always available, authoritative, trusted data and value added services that enable them to conduct the corporate business of the Agency with increasing efficiencies

National Geospatial Report

National Geospatial Report

Risks to NRCS

- Duplication of geospatial information and databases
- Poor quality or inadequate geospatial information
- Inability to access and use geospatial information across NRCS business lines
- Ineffective and unleveraged geospatial investments

Benefits to NRCS

- Supports real world decision making and problem solving
- Supports daily business
- Facilitates regional and National analyses
- Revitalizes mapping products and services
- Provides a place-based context for scientific studies
- Displays and share geographic resources

Geospatial Framework

Supports Geospatial Line of Business

National Geospatial Report

Global Recommendations

I. Endorse the findings of the NRCS Geospatial Report and initiate the development of a national Implementation plan

II. Adopt the Geospatial Framework and formalize Geospatial Governance to establish authorities, approve implementations, and develop investment strategy for future geospatial needs

Global Recommendations

III. Develop geospatial requirements for enhanced planning and inclusion in the investment strategy from Agency business

IV. Invest in geo-enabling Agency data in a way that it will be continuously available, authoritative, trusted, and actionable

Global Recommendations

V. Investigate and develop new geospatial opportunities and support the actions of the Geospatial Governance

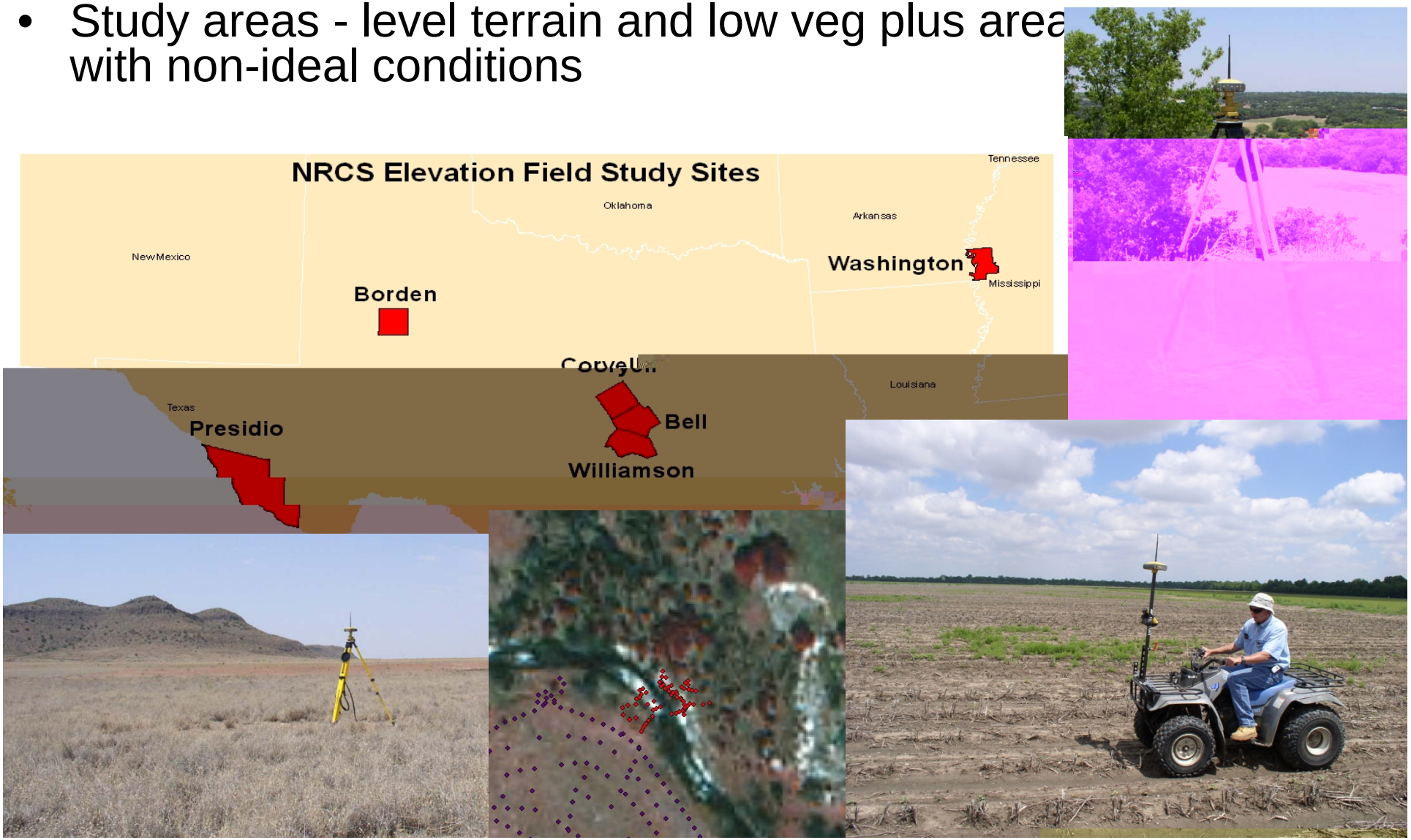
VI. Establish 2D/3D Virtual Globe Technology as foundation for NRCS Conservation and other business applications

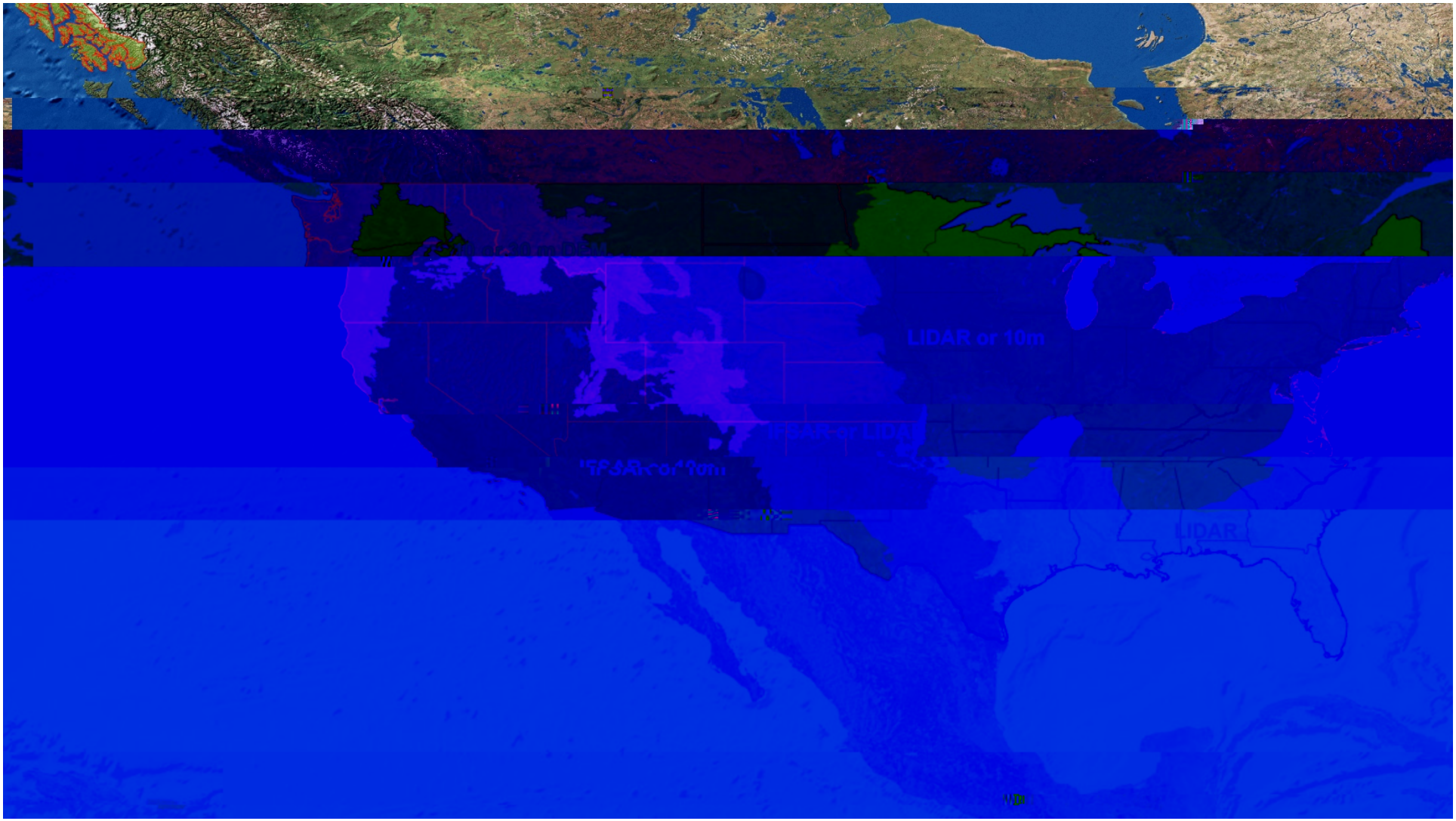
SRCSSC - NCGC Activities

NCGC's Focus –Mapping Sciences

- Remote Sensing (Imagery & Elev.)
- Cartography
- GIS/Geo-science
- Modeling and geospatial applications
- Positioning, Navigation & Timing (PNT)
  - NDGPS – Next Generation
- 2D and 3D Globe Technologies
- MLRA and NRI Support

- Comparisons - IFSAR, LIDAR, & HA GPS
- Study areas - level terrain and low veg plus area with non-ideal conditions




LIDAR or 10m
IFSAR or LIDAR
IFSAR or 10m
LIDAR

Vision

Delivering Geospatial Information – For Conservation Solutions

The foundation of the NRCS is the geospatial relationship of “Productive Lands” to “Healthy Environment”, the NRCS vision.

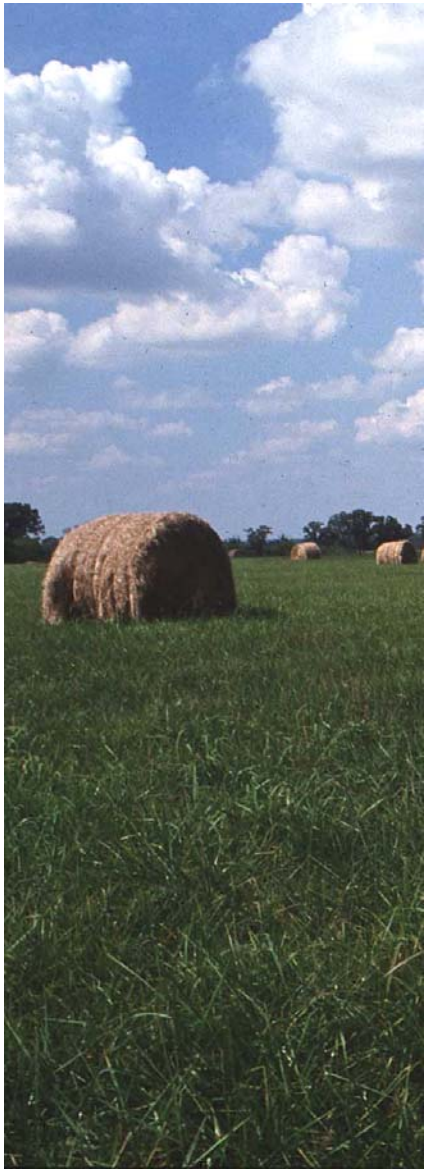
Collecting and analyzing landscape data with geospatial tools, techniques, and procedures to produce useful information for planning and applying conservation solutions.

Mission

Support NRCS Strategic Plan

NCGC provides geospatial products and services, along with geospatial data and geo-technology, to NRCS in support of the NRCS mission, “Helping People Help the Land”.

The NRCS Geospatial Report presents a strong foundation for geospatial technology, data, and services to NRCS offices.



Foundation Goals & Outcomes

Authoritative Provisioned Geospatial Data

Effective Geospatial Tools and Techniques

Useful Geospatial Products and Services

Most Efficient Structure & Leadership

Goals & Outcomes

Geospatial Business Solutions

Geo-analysis for Conservation, Watersheds and Programs

Collaborative Geospatial Answers

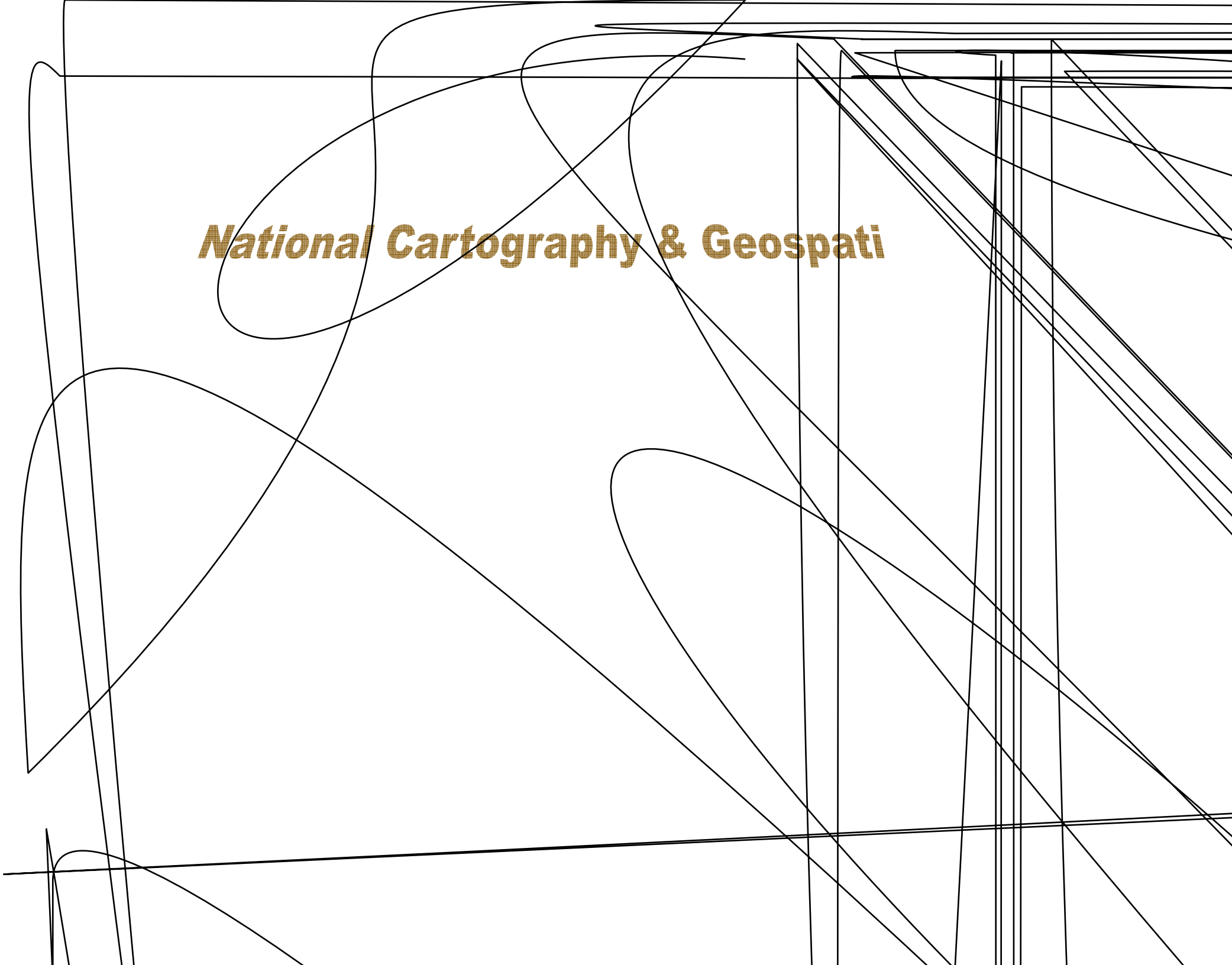
GPS, Mobile Computing, and Digital Cameras can,

..Increase efficiency

..Provide more information, and

..Produce better products

Building Complete Field A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