

The background of the slide is a light blue gradient with a faint grid pattern. On the left side, there is a large, semi-transparent image of the Earth, showing the continents of North and South America.

*Commercial Remote Sensing Space Policy
Civil Implementation Update*

*2004 High Spatial Resolution Commercial Imagery Workshop
USGS Headquarters
Reston, VA
Nov 8-10, 2004*

*Greg Snyder
US Geological Survey*

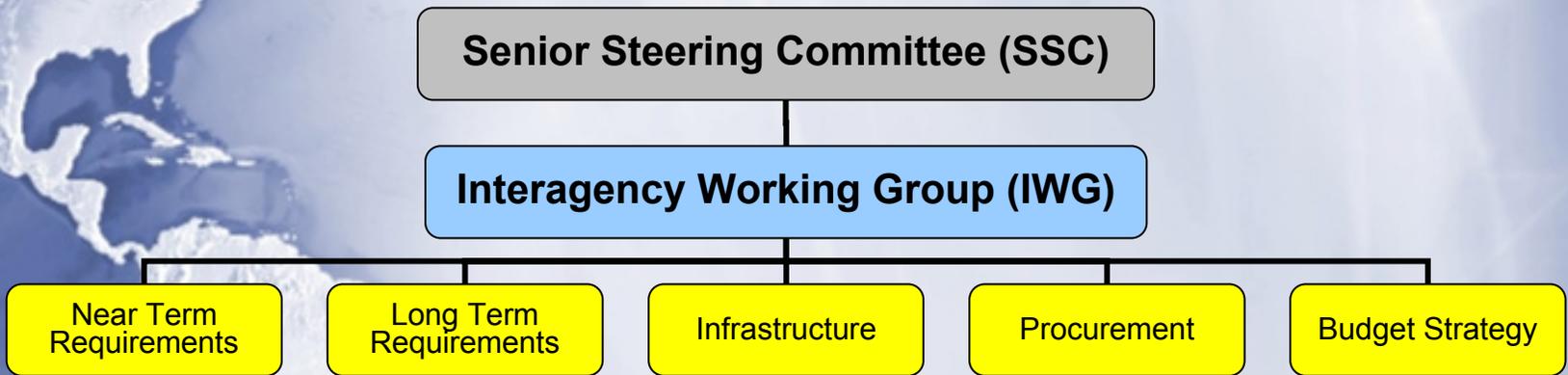
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Civil Implementation Goal

Use commercial remote sensing satellite and data services to the maximum practical extent in civil missions

Civil Implementation Background



22 Agencies Participating



Department of Commerce

- ✧ Census Bureau
- ✧ National Oceanic and Atmospheric Administration



Department of Defense

- ✧ National Geospatial-Intelligence Agency
- ✧ US Army Corps of Engineers



Department of Energy



Department of Interior

- ✧ Bureau of Land Management
- ✧ US Fish and Wildlife Service
- ✧ National Park Service
- ✧ US Geological Survey



Department of Homeland Security

- ✧ Federal Emergency Management Service
- ✧ Transportation Safety Administration
- ✧ US Coast Guard



Department of State



Department of Transportation



Federal Geographic Data Committee



National Aeronautics and Space Administration



National Capital Planning Commission



US Department of Agriculture

- ✧ US Forest Service
- ✧ Natural Resources Conservation Service
- ✧ Foreign Agricultural Service
- ✧ Farm Service Agency



US Environmental Protection Agency

Requirements Process

Near-term requirements objective - characterize and quantify agency remote sensing data requirements from current systems for:

- ✧ Industry planning
 - ✧ Civil budget planning
 - ✧ Identification of procurement opportunities
 - ✧ Leveraging resources to facilitate new orders
-
- ✧ Long-term requirements objective – Characterize needs for future systems (NOAA)



Requirements Collected

- ✧ 257 civil project requirements were collected
- ✧ Included 14 requirements requesting extensive or full US coverage
- ✧ Majority of requirements were for high resolution data with broad distribution needs
 - ✧ Most not currently funded

Focus Areas

Areas where requirements were concentrated and / or aligned for multiple agencies:

- ✧ Alaska
- ✧ Great Lakes
- ✧ Coastal
- ✧ Emergency Response



Emergency Response

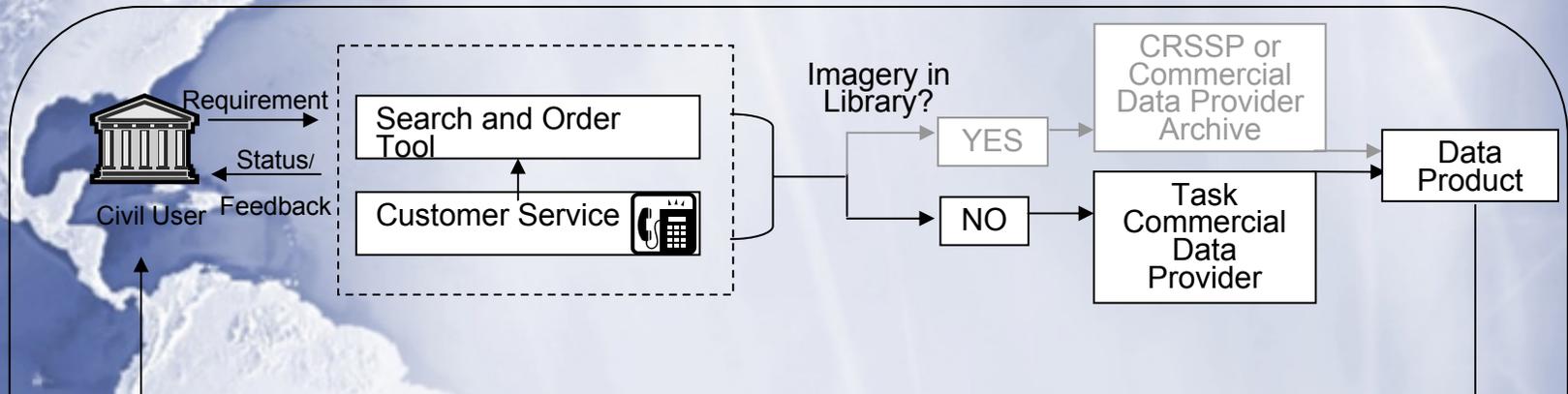
- ✧ Opportunity to:
 - ✧ Analyze disaster response needs and opportunities for commercial satellite solutions
 - ✧ Work with vendors to demonstrate satellite utility for disaster response (case studies)
 - ✧ Better coordinate non-FEMA needs
 - ✧ Exercise responsive procurement action

Commercial Data Access

Objective: Highlight commercial satellite data and provide it to the broadest possible civil customer base

- ✧ Add commercial satellite data to menu of USGS data holdings:
 - ✧ Landsats 1-5 & 7; Terra/MODIS, ASTER; Aqua/MODIS; NOAA/AVHRR; SPOT historical scenes; declassified U.S. imagery; multitude of other DEM and other geospatial data sets
- ✧ Apply experience based on decades of all-source civil imagery procurement, management and distribution
- ✧ Support from seasoned customer service staff (project planning, consultation, search and order, data distribution)
- ✧ Complete initial enhancements to infrastructure by March 2005
- ✧ USGS has coordinated major civil requirements/procurements:
 - ✧ National 1-meter DOQ coverage (~\$220M 1993-02)
 - ✧ 1-ft. ortho imagery over US urban areas (~10M 2003-2005)

CRSSP Commercial Imagery Order



NOTE: The CRSSP and commercial data provider libraries encompass the following archives:

CRSSP Library

- USGS Archive
- NGA Archive
- USDA Archive
- Other

Commercial Data Provider Library

- Space Imaging Archive
- Digital Globe Archive
- ORBIMAGE
- Other

USGS Commercial Satellite Contracts

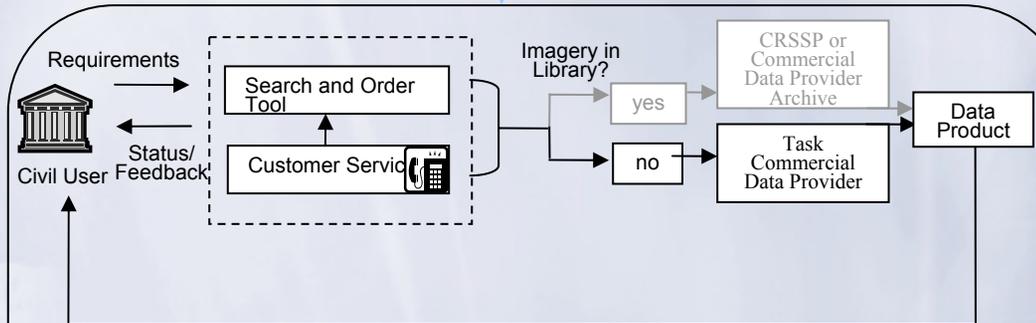
Objective: Administer satellite data contracts tailored to civil needs

- ✧ **Contracts signed late in FY04 with: Space Imaging, Digital Globe, ORBIMAGE. The contracts:**
 - ✧ Complement family of USGS geospatial services/imagery contracts
 - ✧ Expand distribution rights including unrestricted and public domain
 - ✧ Customer services staff steeped in civil applications
- ✧ **Over \$1M purchased by agencies since August 2004**
 - ✧ National Park Service, US Fish and Wildlife Service, Foreign Agriculture Service, Bureau of Land Management
 - ✧ NPS largest collect; covering National parks in SE Alaska

Increasing Data Partnerships

USGS receives multi-year imagery requirements across the civil community

USGS analyzes these requirements for commonality with other agencies



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Commercial Data Provider Library

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- Digital Globe Archive
- ORBIMAGE
- Other



Civil/NGA Coordination

Objective: share data and technology to the benefit of both communities

- ✧ Specific areas of cooperation being explored or underway:
 - ✧ Investigating options for replicating ClearView holdings
 - ✧ Begin with CONUS, and international priorities
 - ✧ Develop system to automatically receive new data
 - ✧ Exploring methods to compare current/future requirements decks
 - ✧ Evaluating NGA infrastructure to leverage technology investments

Budget Strategy

- ✧ Identified areas/topics that combine several key needs (Alaska, etc.)
 - ✧ Internal agency review and approval processes were out of phase with the FY06 budget cycle
- ✧ Ideas will be reconsidered for potential addition to FY07 budget submissions

Next Steps

- ✧ Increase quality and quantity of requirements database
 - ✧ Mine the data to facilitate procurements
- ✧ Develop case studies demonstrating utility of satellite data for major national needs
 - ✧ E.g. emergency response
- ✧ Expose more users to satellite data by populating highly visible civil archive
- ✧ Educate “knowledge challenged” agencies on the full potential of commercial satellites to meet mission needs
- ✧ Synchronize requirements collection with FY07 budget cycle
- ✧ Continue productive civil/NGA cooperation for commercial remote sensing