

State Cartographer's Office & State Geographic Information Office Joint Broadcast

September 23, 2009 ▪ 2:00 pm – 3:00 pm



Geographic Information Office



Agenda

2:00	Welcome/Introductions	Curt
2:05	New State Cartographer	Howard
2:20	Interoperability	Erik/AJ/Lee
2:35	WIGICC Update	Curt
2:40	News/Announcement	Jim/Brenda
2:50	Q&A	Brenda
2:58	Closing Remarks	Brenda



Welcome / Introductions

- Welcome to our 3rd Broadcast
- Purpose
- Next Date(s)
- Session questions / Feedback
- Introductions



New State Cartographer



Howard Veregin

Background

Involved in GIS for almost 30 years

- Director of GIS Operations at Rand McNally, 2000-09
- 25+ staff (research, data development, map production)
- National and international map products
- Data development for B2B and consumer digital products
- Editor, Goode's World Atlas, 21st and 22nd editions



Howard Veregin

Rand McNally

- Collaboration
 - NCGIA gazetteer, Joel Morrison, Goode's Board, map/data providers
- Data development
 - Population estimation, custom geographies, selection tools, commercial & public-domain data integration
- Process improvements
 - Tracking updates, consumer feedback, editorial revisions management, data migration
- Cartographic methods
 - Line generalization, raster smoothing, relief colorization, thematic map development, reference mapping



Howard Veregin

Univ. of Minnesota/Kent State Univ. (1992-2000)

- Improve quality/minimize error for GIS analysis
- Image classification accuracy, resolution effects, computational intelligence (P. Sinčák)
- Microsoft software proofing tools (D. Lanter, N. Chrisman)
- Cartographer, CWRU's Encyclopedia of Cleveland History
- Data quality visualization, NCGIA Maine (Kate Beard)
- Data quality parameterization, EMSL (M. Hewitt)
- Spatial data quality book in Italian (A. Giordano)



Howard Veregin

Graduate Education

- PhD, 1991, UC Santa Barbara
- NCGIA Initiative #1: Spatial Data Quality
- David Simonett, Michael Goodchild, Waldo Tobler
- Introduced to computer mapping as a grad student at Univ. of Manitoba, 1982



State Cartographer's Office

Period of change in geospatial technology and practice.

What does this mean for
Wisconsin GIS community?



GIS in Transition

Technology Change

Emerging ubiquity of geospatial technology

- Lower-cost desktop GIS environment
- Enhanced mapping tools/innovative mapping methods
- Web-based data dissemination and map services
- Mobile mapping: customized, portable geo-enabled tools

Reorientation of GIS skillsets

Changes in user expectations and practices

Increased awareness



GIS in Transition

Application Domains

Non-traditional applications

- Government agencies (e.g., Cultural Resource Mgmt)
- For-profits (e.g., Business Intelligence)
- Higher Education (e.g., MBA programs)
- Non-profits (e.g., Public Defenders)

Unrecognized and unrealized spatial dimensions

Information management → policy analysis



GIS in Transition

Data/Policy

Reorientation of traditional roles

- Digital geospatial data comes of age!
 - Diversity of themes, global in scale (e.g., DOE's LandScan)
 - Higher resolution, quality (e.g., Digital Globe's QuickBird)
 - Web: Accessibility, usability, interoperability
- The private sector
 - Commercialization of remote sensing
 - Commercial activities (e.g., NAVTEQ vs. Census MAF)
 - Federal-private partnerships (e.g., NGA/Google for GeoEye-1)

Increased relevance of private sector



Opportunities & Challenges

Non-Traditional Users

Promote GIS use where skillsets are undeveloped

- State/local agencies (e.g., SHPO)
- Professional organizations (e.g., Realtors' Assn.)
- University departments (e.g., Business Admin.)
- For-profits (e.g., commercial trucking)
- General public (e.g., genealogy and place names)

Embrace change to grow/integrate GIS

Promote novel, unanticipated GIS applications



Opportunities & Challenges

New Methods & Technologies

Conduct R&D, engage thought leaders

- Research emerging technologies (e.g., Open Source)
- Disseminate research results (e.g., “WI GIS Case Studies”)
- Data development and mapping (e.g., WI gazetteer)
- Mobile mapping tools (e.g., Finders)
- Spatial analysis in web map services
 - Temporal GIS/change over time (e.g., land use)
 - Look to private sector examples: www.neighborhoodscout.com

Embrace new technology to improve GIS ROI

SCO can “make it real” (technology+ constituents)



Opportunities & Challenges

Local, Regional, State, National Stakeholders

Build on successful relationships/initiatives

- WLIA, LION, WSLS, WIGICC, SIAC, NSGIC, others...
- Phase II of data inventory
- Help facilitate completion of framework layers
- Promote data sharing, accessibility, interoperability (GIO)
- Enhance/update WiscLINC, Finders, AP Catalog
- Smaller geographic scales (neighborhoods, uninc places...)
- Participate in data preservation efforts

Help justify expenditures in GIS technology



Outreach

- ✓ Beginning outreach travel in Wisconsin
- ✓ Participation at conferences

What are your concerns and how can SCO help?

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Interoperability



Spatial Data Repository Project Goal

- Provide a facility for the
 - aggregation
 - integration,
 - and distribution
- of common statewide geospatial data layers
- and reduce redundant costs related to their use



Spatial Data Repository Project Deliverables

- Basic Web Services (Available To All)
 - ArcGIS Server Map Services
 - Open Geospatial Consortium (OGC) Services – including
 - WMS (Web Map Service)
 - KML
 - WFS (Web Feature Service)
 - Basic cartographic web services
- Data Download (Available To State Agency Partners)

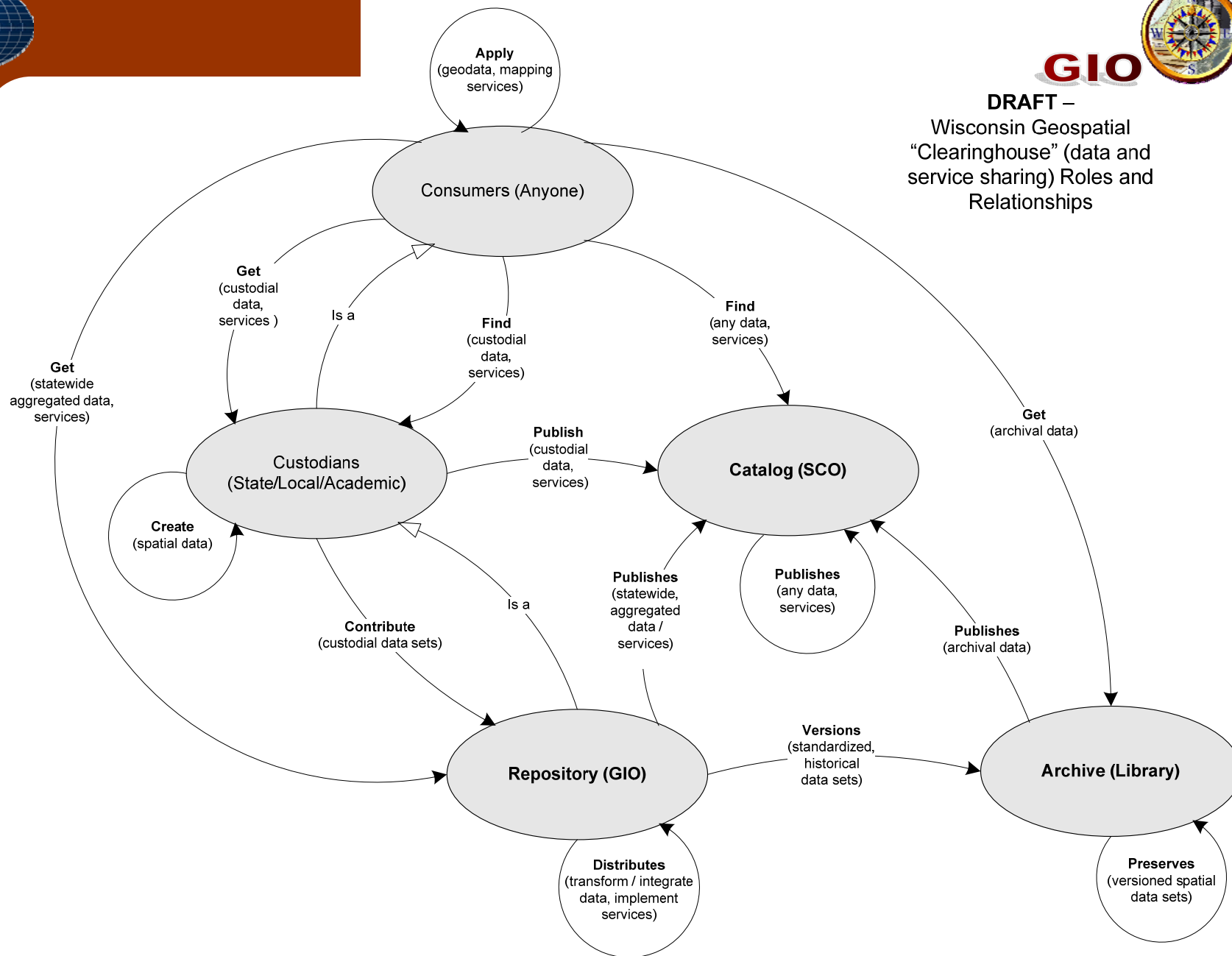


Spatial Data Repository Project Data

- County Boundaries
- State Boundary
- School Districts
- Voting Districts
- LandNet (a PLSS Representation)
- 24k Hydrography
- Minor Civil Divisions (Cities, Villages, Towns)
- Roads
- State Facilities
- Land Parcels
- Zip Code Boundaries
- Census Blocks



GIO
DRAFT –
Wisconsin Geospatial
“Clearinghouse” (data and
service sharing) Roles and
Relationships





WIGICC Update



WIGICC Update (<http://wigicc.org>)

- Organizational
 - Business Sector: jschwichtenberg@sehinc.com
 - New Members:
 - Donna Genzmer, UWM – Education,
 - Howard Veregin, SCO – Ex-Officio
- Business Planning
- Recent Activities
 - WLIA/WIGICC relationships
 - Supporting initiatives (HS Strategic, Orthos, Interop...)
 - MCD Committee formation (lisa.morrison@wi.gov)
 - Kick-off meeting Sept. 28th, DOA



News and Upcoming Events



National Broadband Mapping

- \$240 million for states to feed broadband “maps” to feds, part of ARRA
- PSC designated as the “single entity” eligible to receive mapping funds for WI
- WI requested \$3.1m grant; \$1.3m match
- Joint Assembly/Senate committee hearing today



Status of Pending Legislation

AB-271 “Surveying Modernization”

- Surveyors seek clarification of statutory language
- Scope of bill concerns GIS/mappers
- Discussions, meetings, amendments

AB-349 “Internet search by name for tax records”

- Concerns raised by opponents
- Outcome from Aug. 25th public hearing



WROC Webinar Re-cap

- 42 counties expected to fly in 2010, seven more possible
- State of WI received \$700k federal grant for statewide aerial photography
- Seeking additional partnerships from state agencies, feds, and several MN counties
- See news.sco.wisc.edu for Webinar summary

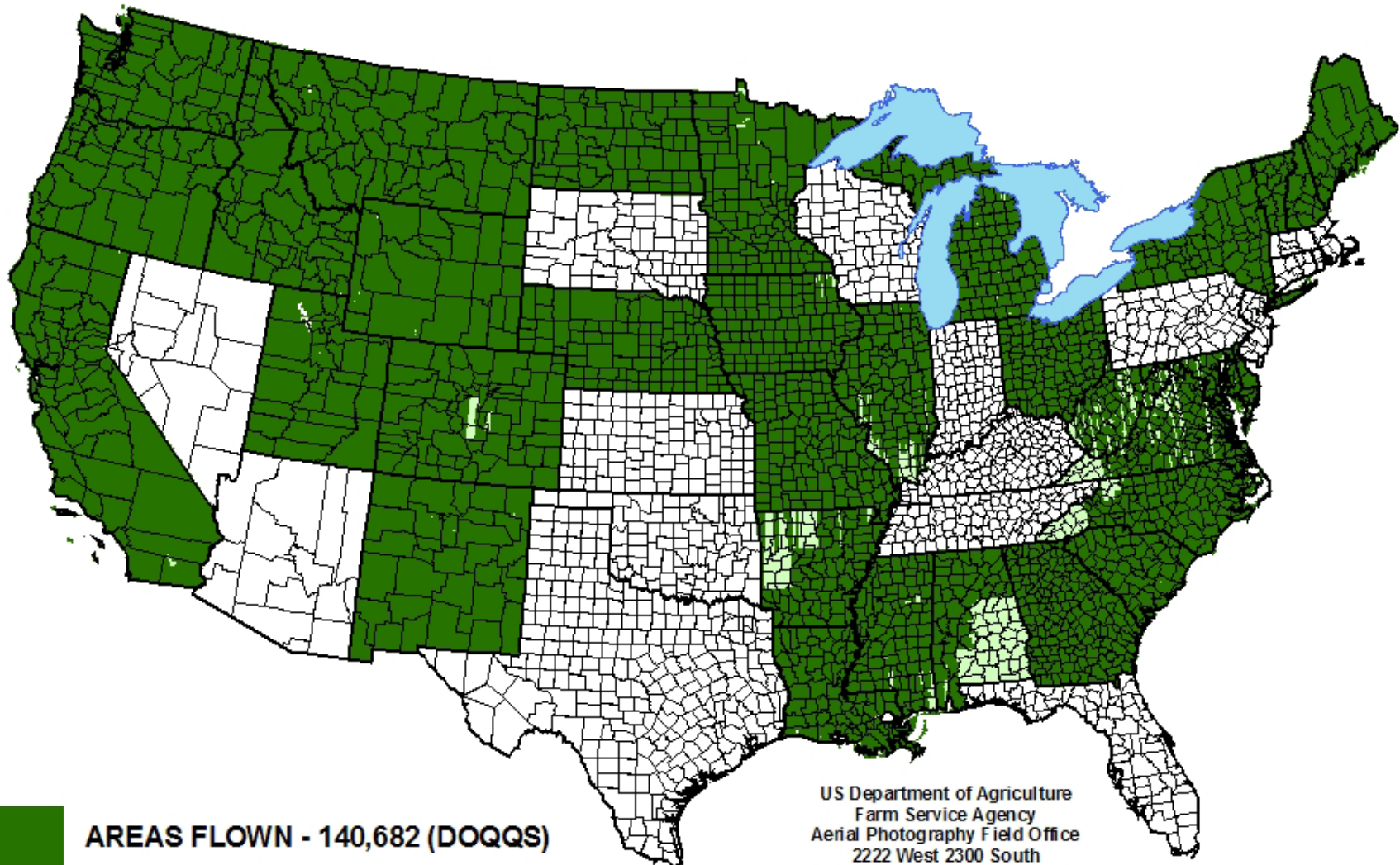


Status of 2010 Wisconsin NAIP

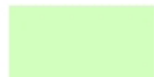
- Originally scheduled for 2011, moved up to 2010
- Same specs as 2005 and 2008 (1m resolution, color, leaf-on)
- Majority of U.S. flown in 2009

September 21, 2009

2009 NAIP IMAGERY STATUS



AREAS FLOWN - 140,682 (DOQQS)



AREAS CONTRACTED - 148,146 (DOQQS)

US Department of Agriculture
Farm Service Agency
Aerial Photography Field Office
2222 West 2300 South
Salt Lake City, UT 84119-2020
Bridget Barlow
Tel: 801-844-2911 Fax: 801-956-3640
Email: bridget.barlow@slc.usda.gov
Website: www.apfo.usda.gov



Upcoming Events

news.sco.wisc.edu/calendar.html

- GITA, Oct 8 - Waukesha
- WLIA, Oct. 20-21 - Eau Claire
- ESRI Wis. User Group, Oct. 29-30 - Appleton
- UW-Milw. & ECRPC GIS Day, Nov. 18th
- UW-Madison GIS Day, Nov. 20 – UW-Memorial Union
- Wis. Geospatial User Group, Sept. 23 - Sheboygan



National News

- NSGIC Annual Conference, Oct 4th – 8th, Cleveland
- Imagery for the Nation “record of decision”
- Santa Clara County, CA open records case
 - See news.sco.wisc.edu



Looking for more news
and current events?

Check out the *Mapping Bulletin* at
news.sco.wisc.edu



Questions & Answers



SCO/GIO September 23 Meeting Feedback survey

<http://doa.wi.gov/WEBSurveys/TakeSurvey.aspx?SurveyID=94KJ478K>



Contact us - in Madison

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