

Scope of Cadastral Reference Pilot – Final 3/7/2011

A new era in generating a Cadastral Reference necessitates a fresh approach to promulgating the best possible spatial representation of the PLSS in Idaho. The pilot will yield proven pathways for adjusting our technical, process and collaborative approaches to achieve a single authoritative source of Cadastral Reference, a critical element of The Idaho Map and of our national spatial data infrastructure. The goals are to:

- Demonstrate a workable distributed stewardship design and collaborative process
- Develop a method for blending BLM inputs and all other inputs into a single output
- Identify where surveying ends and GIS begins
- Propose stewardship boundaries and responsibilities

Deliverables

- Testing documentation
- Recommendations for:
 - Tools, processes, workflows, business rules and SOPs
 - Defining responsibilities between surveying and GIS
 - Stewardship Roles
 - Stewardship Map
 - Model MoA

This scope contains a list of participating organizations, a description of the work to be accomplished and suggested roles and responsibilities.

Participating Organizations

BLM Idaho State Office	State Tax Commission
BLM Denver GCDB Program Office	Cassia County
Idaho Geospatial Office	Ada County
U.S. Bureau of Reclamation, Snake River Area Office	

Timeline: **February - July 2011**

Starting Point: **CadNSDI version 1.1**

Pilot Counties: **Ada and Cassia**

Scope of Work

1. Map private, state and federal land ownership for pilot counties and publish a map service containing ownership areas and the CadNSDI v1.1. This is the foundation for determining stewardship areas for the long term and is necessary for the stewardship mapping in Task 2. BLM, IGO and pilot counties provide ownership information; IGO develops and publishes map service.
2. Determine stewardship boundaries. Two approaches will be tested and final results evaluated. The two scenarios are: stewardship based on ownership boundaries and stewardship based on township tile. IGO will perform the technical aspects of the delineation, guided by USBR. The map service will provide access to the results of the two scenarios for all to examine. IGO will document pros and cons of each approach based on team input.

3. BLM is part of the beta testing team for the new tools being developed in Denver. Based on those tools, BLM will experiment with incorporating GCDB updates into CadNSDI v1.1 for long-term maintenance. Three updated townships in Ada County will be used for testing. Among other issues will be identifying which townships to incorporate in cases where there is no federal interest land. The results will be used for Task 5. *Note: This task will also help BLM identify the appropriate division of responsibilities between its Cadastral and GIS units.*
4. IGO will test methods for 1) incorporating PLSS fabric for Ada County on nonfederal lands and 2) incorporating PLSS corner positions from Cassia County related to private lands into v. 1.1. IGO will document both processes, the decisions made along the way, and assess the quality of the results, plus suggest other approaches or alternative pathways using the same processes. State Tax Commission may assist. GIO will help with documentation. The Cadastral Reference Workgroup will discuss issues for making spatial adjustments based on survey control involving private lands (or within non-BLM stewardship boundaries) and make recommendations for business rules and related guidance. The results will be used for Task 5.
5. Experiment with different methods of blending two sources and two origin processes into single Cadastral Reference. Ada County presents a mix of ownership/stewardship that provides a good test bed. This task is dependent on having results from Tasks 3 and 4.
 - a. BLM integrates GCDB updates into CadNSDI v.1.1, et seq.
 - b. IGO incorporates local control and local fabric into CadNSDI v.1.1
 - c. Workflow process for blending the two sources into one authoritative sourceGIO, with help from team, will document processes and workflows.
6. Examine approaches for metadata compilation at each aggregation point. BLM GIS and USBR will document, with IGO, BLM Cadastral, and Tax Commission input, addressing both the technical and negotiated aspects of compilation.
7. Review MOA examples and recommend best model
GIO will review examples and make recommendations with team input.

Roles

Project Manager:

Donna Pitzer, USBR

Task Leads:

Rod Collins for BLM side

Donna Pitzer for TIM side

Technical Writer:

Gail Ewart, GIO

Technical Team:

Bob Smith, IGO

Travis Cooper, BLM GIS

Jack Clark, Ada County

Todd Quast, Cassia County

Bruce Ogonowski, BLM Cadastral