

ORMAP Grant Application

Section I. County and Grant Information

A. County: Lane	B. Funding Cycle: Fall 2008
C. Project will help meet ORMAP Goal(s): 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/>	D. Fund Request: \$70,975

Section II. Summary of Project

A. Brief Overview of the Request.	DOR Assessment <input type="checkbox"/> Pass <input type="checkbox"/> Fail
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This request seeks to make up for the reduced funding received from ORMAP grant #1929 (S08 Map Conversion) and to provide for extension of work being performed under grant #1856 (F07 Feature Conversion). This request is to fund a six month project from January 1, through June 30, 2009. The deliverables for this project are printed A&T maps produced from the ESRI ORMAP data model that meet the ORMAP Technical Standards.

Scope and Deliverables

Check	Deliverables	Brief description of the deliverables
X	Taxlot Conversion	7,700 taxlots on GIS-produced Assessor Maps
X	Tax Map Conversion	275 GIS produced Assessor Maps
<input type="checkbox"/>	Control Points	
<input type="checkbox"/>	Scanning	
<input type="checkbox"/>	Reports	
<input type="checkbox"/>	Development	
<input type="checkbox"/>	Other Assistance	
<input type="checkbox"/>	Other Deliverable	
<input type="checkbox"/>	Hardware/Software	

B. Timeline (funding not to exceed one year from award date)

The timeline for this project would be six months - completed by June 30, 2009.

C. Costs of Total Project (add lines as necessary)

Deliverable	Number of Items	Cost per Item	Total Cost
Tax Map Conversion	275 maps	\$258.10	\$70,795
Tax-Lot Conversion	7,700 tax lots	Included above	Included above

D. Partnerships and Contributions (add lines as necessary):

Partner	Contribution
<u>A&T</u>	<ul style="list-style-type: none"> - Maintenance for 6 ESRI Software Licenses \$ 3,600 - Develop ESRI ORMAP GIS tools and Data Base, Programming assistance \$ 4,500 - .4 FTE Map Conversion Assistance \$ 14,000 - Project Oversight \$ 9,000
<u>Lane County Public Works</u>	<ul style="list-style-type: none"> - Tax Lot data maint and update \$ 24,972 - Inter-agency Project coord. & management \$ 18,953 - Plat registration \$ 3,936

<u>Regional GIS Partners</u>			
Eugene Engineering GIS	Plat Data Entry		\$ 8,000
Springfield Engineering GIS	Plat Data Entry		\$ 8,000
Lane Council of Governments (CPA)	Tech Assist, DB Admin, Metadata		\$ 24,750
Total			\$ 119,711
A. Assessor's Signature & Date:		<i>See File Copy</i>	
F. Fiscal Coordinator – Name & Contact Number:		Anette Spickard (541)682-6798	
G. Project Coordinator – Name & Title:		David Cutting, Lead Cartographer – LCA&T Cress Bates, Senior Engineering Associate - LCPW	
E-mail address:		David.Cutting@co.lane.or.us Cress.Bates@co.lane.or.us	
Phone Number:		David Cutting: 541-682-3854 Cress Bates: 541-682-8559	
Mailing Address:		Lane County Assessment and Taxation 125 E 8 th Ave Eugene OR 97401-2968	

Section III. Detail Project Information –*Answer all questions*

A. Overview

1. Describe what the project is trying to accomplish.

This project ensures continued conversion of tax map production to ORMAP technical specifications.

2. Does this project relate to any previous ORMAP-funded projects? If yes, please explain.

1241	\$59,245	S/04- LC A&T funding Cartographer position to convert mapping to GIS
1242	\$40,000	S/04- LCPW Air Photos, Project Coordination
1284	\$ 9,900	11/04- LC A&T for ESRI Arc/Info License
1365	\$17,113.10	S/05- LC A&T funding Cartographer position to convert mapping to GIS
1534	\$70,000	F/05- LCPW A&T map annotation, map index polygons, for Goal 4 maps
1556	\$67,000	S/06- LC A&T funding Cartographer position to convert mapping to GIS
1563	\$ 5,000	S/06- ORMAP ESRI Programmer's Grant
1764	\$70,000	F/06- LCPW A&T map features for ORMAP Technical Standard maps
1806	\$70,000	S/07- LC A&T funding Cartographer position to convert mapping to GIS
1816	\$25,000	S/07- ORMAP ESRI Programmer's Grant
1856	\$70,000	F/07- LCPW A&T map features for ORMAP Technical Standard maps
1929	\$36,025	S/08 - LC A&T funding Cartographer position to convert mapping to GIS

3. What is the status/outcome of the previous ORMAP-funded projects? (Please include contract numbers and a status map.)

- Lane County Assessment and Taxation will complete contract #1929 by 12/31/2008. (S/08- LC A&T funding Cartographer position to convert mapping to GIS).
- Lane County Public Works will complete contract #1856 by 12/31/2008. (F/07- LCPW A&T map features for ORMAP Technical Standard maps)

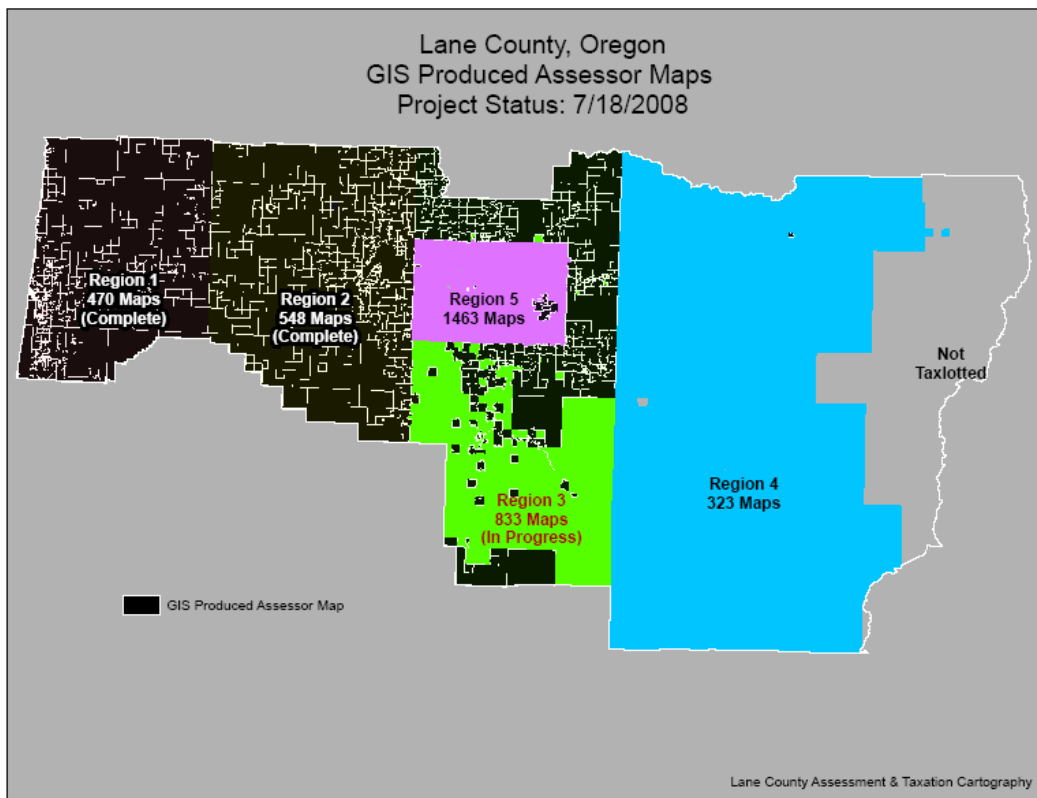
- Lane County Assessment and Taxation has completed the facilitation of LCOG programming work for contract #1816 (S/07- ORMAP ESRI Programmer's Grant).
- All previous grants have been completed and closed. The chart and map below shows map conversion progress as of 7/18/2008.

Map Report 7/18/2008

Map Type	Meet Spec	Not Meet	Total	Percent Complete Map
Detail	111	251	362	31%
Supplemental	15	77	92	16%
Township	58	77	135	43%
Section	843	546	1389	61%
Quarter Section	139	130	269	52%
Sixteenth	350	1059	1409	25%
Total	1516	2140	3656	41%

Taxlot Report 7/18/2008

	Meet Spec	Not Meet	Total	Percent Complete Taxlot
Total	48162	111521	159683	30%



B. Project Design – Current Proposal

1. Identify the ORMAP and the regional/county goal(s) that this project addresses.

Continued funding for the A&T Cadastral/GIS Technician, and the Lane County Public Works GIS Technician I, will ensure that Lane County A&T can create tax lot maps consistent with the ORMAP Data Exchange Standards, with the Department of Revenue Digital Cadastral Standards, and in conformity with ORMAP technical specifications. This work is consistent with the regional and departmental (A&T) goal of converting the A&T Map production and maintenance to the new procedures that have now been

implemented by Assessment and Taxation. These procedures call for the mapping to be done in ArcGIS, using the accurate Lane County control data and tax lot base. All new mapping is being done in an enterprise ArcSDE geodatabase using the ESRI ORMAP parcel data model and map production and editing tools.

2. Describe in detail your technical approach to the project (mapping methodology).

The following is a technical summary of the process we are using to convert an A&T map to the ESRI ORMAP Parcel Data Model in the GIS:

A: Annotation and Reference Line Data entry

1. Select map to convert based on maintenance priority need.
2. Reserve the map by entering date and name in coordination database.
3. Open standard Map Construction and Editing map document using ESRI ArcMap.
4. Initiate Versioned SDE Map editing session.
5. Add CAD file as background layer, Re-project or adjust as needed.
6. Add additional vector source data (PMP “all drawing”, “all anno”).
7. Select, copy, paste relevant vector cartographic lines to correct target layers and update attribute values.
8. COGO reference line features to correct target layers and update attribute values.
9. Convert available vector annotation, paste into correct target annotation class, update attributes.
10. Join taxlot polygons to certified taxlot acre table. Calculate taxlotacre values to be used as Feature linked TaxlotAcreageAnno.
11. Digitize any other necessary annotation from image sources in CAD drawing.
12. Create TaxCodeAnno elements where needed.
13. Reposition annotation as needed.
14. Reconcile and post the edit SDE version to default SDE version.
15. Enter GISConvert date and map location data in coordination database.
16. Print GIS map and put with copy of decommissioned CAD map in “Quality Control in-Box”.

B: Map finishing and Quality Assurance by Qualified Cartographer:

1. Reconcile new map with map maintenance records and old CAD map.
2. Perform any deferred miscellaneous corrections on record.
3. Update CancelledNumbers and RevisionBox tables.
4. Perform standard checklist visual inspection.
5. Make any edits needed.
6. Enter map status and comments in coordination database.
7. Print map to paper and PDF file.

3. Describe the project deliverables. (DOR will bill against these deliverables)

This grant proposes creating the additional data layers for an estimated 7,700 tax lots that are needed to build new maps in the GIS environment. The project deliverables will be 275 tax maps that meet ORMAP technical specifications completed within the term of the project. These maps will be produced with the ESRI ORMAP Map Production tool, published as PDF files and conveyed to DOR for use on the ORMAP web site. The resulting 275 maps will contain an estimated 7,700 taxlot polygons in total.

4. Will this proposal fund staff that is doing work other than ORMAP projects? If so, describe how the time and cost will be tracked for the different projects.

This proposal will fund staff doing work other than that funded by ORMAP. The grant will fund one full time FTE from A&T and one full time FTE from LCPW, each for a period of six months. GIS map conversion and finishing duties will be rotated among the A&T Cartographer Staff. Map deliverables will be tracked by the number of maps completed. Taxlot deliverables will be the sum of taxlots for those maps converted. Progress is tracked in an Access Database (PMPCoordination.mdb) and by recording time to the appropriate work items for individual timesheets.

5. Who will be doing the work (county staff, contractor, DOR staff, etc.)? Please define their role(s).

Lane County Assessment and Taxation cartographers and Lane County Public Works GIS technicians, will be doing the work.

6. Define the role of the County Cartographer in the project.

The County Cartographer is interpreted to mean the lead cartographer employed directly by A&T. This position prioritizes maps to be converted, sets design and procedural standards, documents procedure, coordinates improvements to the editing and production tools, oversees quality assurance, maintains conversion progress data, and resolves issues.

7. Describe the maintenance plan for this product.

We use a standard maintenance process in place at Lane County Assessment and Taxation for cadastral data. Maintenance requests (recorded documents and annexation requests) are logged into the assessor's database and prioritized for completion in the mapping system. Plat data entry cogo work and spatial registration is done by local jurisdiction surveyors per the regional Parcel Maintenance Agreement. Taxlot changes are processed by A&T cartography in GIS for the non-metro western ranges and in CAD for the metro and Eastern ranges. Taxlot changes published in the CAD system are transferred to the GIS system by Public Works based on fortnightly reports from A&T. Annexations are solely processed in GIS by A&T cartography.

8. Will this comply with Oregon Cadastral Data Exchange Standard?

Our product is compliant with *Oregon Cadastral Data Exchange Standard*.

9. Describe where this project fits within the County's overall mapping/GIS work plan.

This project is consistent with the GIS partner's regional tax map creation strategy developed by the RLID Tax Lot Subcommittee, and the Parcel Mapping business plan. This strategy calls for the migration to the ArcGIS environment to create and maintain tax lot data and assessor maps. The plan also calls for using ArcSDE and the ESRI ORMAP Parcel Data Model to build and maintain these maps and data.

10. Provide a project timeline with milestones or phase-completion dates:

-----Note Bold entries have been completed. -----

Duration	Equivalent of one cartographer fte always building maps
12/01/2006	Begin A&T maintenance of Region 2
01/01/2007	Complete GIS mapping for Lane County Region 1
04/01/2007	Document Maintenance Procedure steps
05/01/2007	Craft agreement for Eugene, Springfield Plat entry into Cadastral map maintenance
09/30/2007	Begin A&T GIS maintenance for Lane County Region 3
10/31/2007	Complete GIS conversion for Lane County Region 2
12/01/2008	Begin A&T GIS maintenance for Lane County Region 4
01/01/2009	50% of County maps converted (ORMAP Goal 3)
06/30/2009	Begin A&T GIS maintenance for Lane County Region 5 - (Entire County in GIS maintenance – no more need for Public Works maintenance of GIS taxlots)

11. Does this project promote partnerships, if so, with whom?

This project promotes two levels of partnerships within our region. First, it promotes and builds on the strong partnership between Lane County A&T and Lane County Public Works. These two departments are at the forefront of maintaining the new ORMAP technical standard tax lot data and are doing this in a coordinated, multi-departmental environment. Secondly, the plat data warehouse/plat processing procedures have been implemented by the Regional GIS partners and are promoting strong partnerships between Lane County, City of Eugene, City of Springfield and Lane Council of Governments. These partnerships are the key to eliminating the redundant digital plat data creation that has occurred among the various agencies.

12. Describe any innovations that will be utilized by this project.

- This project builds on and leverages the ESRI ORMAP Parcel Model, the ESRI ORMAP Parcel Edit tools and the ESRI ORMAP Map Production tool.
- Implementation of Lane Regional Plat Data Warehouse: a regionally shared depository for digital plat data in a CAD format.
- GIS to CAD converter for Plat Data Warehouse data.
- Plat Tracking database. This is an Access-based plat tracking application that allows each of the regional GIS partners to track the progress of a plat, record their own work on the plat, and notify other agencies when the plat has been recorded, registered, updated on the A&T map, and updated in the GIS plat and tax lot features.
- CAD to SDE GIS annotation conversion tools written by Lane A&T Cartography staff with LCOG help.

13. Detail Costs (who is paying for what).

ESRI ArcInfo License maintenance	A&T	\$3,600
Develop ESRI ORMAP GIS Tools	A&T	\$4,500
.4 FTE Tax Map Conversion (500 maps)	A&T	\$14,000
Project Oversight	A&T	\$9,000
Tax Lot maintenance and update	LCPW	\$24,972
Interagency Tax Lot maintenance project coord.	LCPW	\$18,953
Plat Registration	LCPW surveyor	\$3,936
Plat Data entry to parcel model	Eugene & Springfield	\$16,000
Technical Assistance, DB Admin, Metadata	LCOG	\$24,750
Current Request: Tax Map Conversion (275 maps)	ORMAP (A&T&LCPW)	\$70,975
Total		\$190,686

C. Quality Control

1. Who will be responsible for quality control?

Lane County Assessment and Taxation staff will be responsible for quality control.

2. Will county cartography staff review the deliverables?

County Cartography staff will review the deliverables as part of the quality control process. In addition, county cartographer staff will administer the standardized tests for ORMAP technical standards assurance, when these tests are available.

3. Will there be a review by Department of Revenue cartography staff?

If requested.

4. Describe quality control procedures.

Qualified A&T cadastral cartographers finish maps begun by Lane County Public Works staff. The finishing procedure requires completion of a checklist of quality control tasks. Maps begun by a qualified A&T cadastral cartographer are given to another qualified A&T cadastral cartographer for quality control using the same checklist mentioned above. When the standardized ORMAP technical standards tests are available, these tests will be run on all completed maps.

D. Data Availability

Identify this product’s restrictions on data sharing or licensing issues.

All data produced under the ORMAP program is available to the public in accordance with the data access standards developed by Lane County Information Services and adopted by the Lane County Commissioners. A copy of this document is available upon request.

E. Background Information

Any other information that you feel may help support the project. Please attach an updated copy of your county's ORMAP business plan if it has not been updated on the ORMAP website.

Lane County has done field survey work and/or survey record research along the entire Lane County Boundary. The results were submitted to neighboring county surveyors in 2004. Initially the neighboring surveyors agreed on the Lane County established boundary. Because of continued ORMAP funded boundary work, Linn and Lincoln counties have reported that further research is required. Lane believes it would be beneficial to do a follow-up review with Benton, Douglas, Deschutes, and Klamath counties as well.

G. Other Issues - Please identify.

Submit completed forms to:

Mail	Contact Information
ORMAP Project Coordinator Oregon Department of Revenue Property Tax Division - CDOT 955 Center St. NE Salem OR 97301-2555	Tel: 503-945-8493 Fax: 503-945-8737 or.map@state.or.us