



# Oregon

Theodore R. Kulongoski, Governor

## Department of Human Services

Budget Planning and Analysis

500 Summer Street NE, E-23

Salem, OR 97301-1098

**(503) 945-6167**

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**April 14<sup>th</sup>, 2009**

### **Oregon Geographic Information Council (OGIC) Framework Data Development Program**

For the 2009 – 2011 Biennium

#### **Background and Summary: Oregon Public Schools Dataset**

The Oregon Department of Human Services (DHS), Office of Forecasting, Research and Analysis (OFRA) is requesting financial assistance to develop a comprehensive dataset for Oregon public schools. Such a dataset is not yet maintained by Oregon public agencies or stakeholders. This comprehensive dataset will provide OFRA with greater flexibility to study spatial relationships among DHS clients, school buildings, and program attributes, and add value to DHS services for clients and stakeholders.

#### **Proposed Activity**

The Oregon Department of Human Services (DHS), Office of Forecasting, Research and Analysis (OFRA) is requesting financial assistance to develop a comprehensive dataset for Oregon public schools. The dataset will consist of four feature classes: Oregon public school locations (point), Oregon public school attendance boundaries (polygon), Oregon School District (SD) boundaries (polygon), and Oregon Educational Service Districts (ESD) (polygon). Polygon feature classes will adhere to the Oregon Administrative Boundary Standard provided by the Framework Implementation Team (FIT). This comprehensive, accurate dataset will provide OFRA with greater flexibility to study spatial relationships among DHS clients, school buildings, and program attributes.

The Oregon school dataset will have a statewide spatial extent. State school district boundaries and school locations are available as statewide digital datasets, but do not reflect the higher level of accuracy available. School district boundaries, which correspond to tax lot boundaries, have not been corrected to illustrate the delineation of digital tax lot datasets available from county assessor's offices. School locations require spatial review to ensure that geocoded point locations represent the geographic location of the physical school building or campus.

A comprehensive statewide coverage does not exist for either school attendance boundaries or ESD boundaries. Some larger school districts do maintain attendance boundaries. A majority of the school districts have attendance boundaries delineated, but only have them available as printed maps or address text files. ESD boundaries are defined by each ESD and have not been delineated in any format to date.

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This dataset will help DHS improve services to Oregonians. An example is the recruitment of foster homes in areas determined to have increased caseloads of foster children. DHS policy is to attempt to keep a foster child in the same school he or she was attending at the time he or she entered DHS care. A comprehensive educational dataset would enable DHS to meet these policy goals. In addition, other public agencies (e.g. Oregon Department of Education, ESDs, SDs, public schools) and community advocacy groups could also leverage the dataset for their own programs.

OFRA will serve as the steward for this dataset under a formal data sharing agreement between the Department of Administrative Services' (DAS) Oregon Geospatial Office (GEO) and DHS. The Oregon Department of Education (ODE), some school districts, and most public schools are unable to create and maintain this type of dataset. OFRA will update each dataset annually as resources allow. OFRA hopes to collaborate with the ODE to manage stewardship responsibilities, and eventually transfer stewardship to ODE.

Stakeholders in the development process will include DHS, ODE, Oregon ESDs, SDs, public schools (elementary, middle and high schools), county assessor's offices, local government councils and Portland Metro planning. Additional stakeholders may be identified during the development process. Development of each data layer will involve obtaining the most current definition of the boundary from each stakeholder responsible for maintaining the boundary and boundary datasets. Datasets used to define new and updated boundaries will consist of county tax lots, the National Hydrography Dataset (NHD), the ESRI StreetMap dataset or other more accurate street centerline datasets (i.e. BLM centerline dataset), and current school district and attendance boundary datasets.

Each of the polygonal feature classes will fall under the administrative boundaries division of the Oregon Geographic Information Council (OGIC) Framework Implementation Team (FIT). No FIT theme has been selected for the placement of the point feature class representing the school site locations. The point feature class will follow the same standards as defined by U.S. Board of Geographic Names (GNIS). Each feature class within the educational dataset will have associated metadata following the Federal Geographic Data Committee (FGDC) standards (<http://www.fgdc.gov/metadata>). Preliminary details on the data creation and attributes of the feature classes can be found in the attached technical appendix.

### **Deliverables<sup>1</sup>**

<sup>1</sup> Attributes of the four components of this projects deliverables are detailed in Technical Appendix I.

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- OFRA will complete this project by June 1<sup>st</sup>, 2010.
- OFRA will provide the Department of Administrative Services (DAS) with a File Geodatabase consisting of four feature classes:
  - a. *Oregon Public School Locations (by December 1<sup>st</sup>, 2009)*. A point location representing the physical location of a public school site location. Requires 1 GIS Analyst and 1 ArcGIS ArcView 9.3 license, ESRI Street Map 'Street\_Addresses\_US' Address locator, and an Excel file of current school locations from the Oregon Department of Education (ODE). **See Section A of Technical Appendix I.**
  - b. *Oregon School District Boundaries (by February 1<sup>st</sup>, 2010)*. A public and quasi-municipal corporation, organized by legislative authority comprising a defined territory, for the erection, maintenance, government and support of the public schools within its territory. Requires 1 GIS Analyst and 1 ArcGIS ArcView 9.3 license, most accurate School District boundaries data layer, most accurate roads centerline dataset available or ESRI StreetMap detailed roads dataset, National Hydrological Dataset (water features), County Tax Lots, and County Boundaries. **See Section B of Technical Appendix I.**
  - c. *Oregon Public School Attendance Boundaries (by May 1<sup>st</sup>, 2010)*. A geographic area representing the catchment basin from which a school primarily derives its student enrollment. Requires 1 GIS Analyst and 1 ArcGIS ArcView 9.3 license, most accurate School District boundaries data layer, most accurate roads centerline dataset available or ESRI StreetMap detailed roads dataset, National Hydrological Dataset (water features), County Tax Lots, County Boundaries. **See Section C of Technical Appendix I.**
  - d. *Oregon Educational Service District Boundaries (by June 1<sup>st</sup>, 2010)*. A public and quasi-municipal corporation, organized by legislative authority comprising a defined territory, for the erection, maintenance, government and support of the school districts within its territory. Requires 1 GIS Analyst and 1 ArcGIS ArcView 9.3 license, most current School District Boundaries, accurate roads centerline dataset available or ESRI StreetMap detailed roads dataset, National Hydrological Dataset (water features), County Tax Lots, and County Boundaries. **See Section D of Technical Appendix I.**

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**Amount Requested:** \$29,540.40

### Preliminary Budget Estimate

1. OFRA is requesting \$29,540.40 to fund the 820 estimated staff hours to complete this project.
2. OFRA will maintain the two positions required for this project.
3. OFRA has already completed the groundwork for this project by contributing 160 staff hours to research and data collection, and 320 staff hours to data creation and accuracy review. DHS will continue to provide software, facilities, and equipment for this project.
4. OFRA does not anticipate any unfunded activities associated with this project.

**Table 1 - Estimated project costs by deliverable**

School Locations		1300+ Oregon Public Schools		
Staff Title	Staff Rate	Total Hours	Cost	
GIS Analyst	<b>37.92</b>	<b>40</b>	\$1,516.80	
Research Analyst	<b>26.82</b>	<b>40</b>	\$1,072.80	
			<b>\$2,589.60</b>	<b>Sub Total Cost</b>
Attendance Boundaries		1300 Plus Oregon Public Schools		
Staff Title	Staff Rate	Total Hours	Cost	
GIS Analyst	<b>37.92</b>	<b>480</b>	\$18,201.60	
Research Analyst	<b>26.82</b>	<b>40</b>	\$1,072.80	
			<b>\$19,274.40</b>	<b>Sub Total Cost</b>
School District Boundaries		200 Oregon Public School Districts		
Staff Title	Staff Rate	Total Hours	Cost	
GIS Analyst	<b>37.92</b>	<b>120</b>	\$4,550.40	
Research Analyst	<b>26.82</b>	<b>40</b>	\$1,072.80	
			<b>\$5,623.20</b>	<b>Sub Total Cost</b>
ESD Boundaries		20 Oregon Educational Service Districts		
Staff Title	Staff Rate	Total Hours	Cost	
GIS Analyst	<b>37.92</b>	<b>40</b>	\$1,516.80	
Research Analyst	<b>26.82</b>	<b>20</b>	\$536.40	
			<b>\$2,053.20</b>	<b>Sub Total Cost</b>
Supplies				
	Materials	Data Acquisition	Cost	
	<b>\$100</b>	<b>\$250</b>	<b>\$250.00</b>	<b>Sub Total Cost</b>
<b>Total Project Hours:</b>		<b>820</b>	<b>\$29,790.40</b>	<b>Project Total Cost</b>



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### **Additional Information**

OFRA has not applied for, or been awarded, Framework funding in the past.

By submitting this application, OFRA understands and agrees that all members of the project team shall recuse themselves from participation in the current proposal evaluation process.

### **Contact Information**

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