

Symbology Standardization Monthly Report May, 2011

DHS IAA Number: Supplement to VACCINE COE: CA #2009-ST-061-CI0001-02
Reporting Period: May 1, 2011 – May 31, 2011
Contract Period: March 1, 2010 – May 31, 2011

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This report describes the progress made during the month of May, 2011, on the Symbology Standardization Support project in support of Department of Homeland Security Science and Technology.

I. Cost

The costs from May 1st – May 31st, 2011 are reflected in the table below. Costs reported for the current period include:

- Penn State estimated costs for the period May 1st – May 31st, 2011.

Costs – Current Period	Cumulative Costs	Budget Remaining	Total Budget	% Spent
\$ 50,783.49	\$ 391,445.87	\$ 39,320.13	\$ 430,766.00	90.87%

As of May 31st 2011, the budgeted funding is considered sufficient to complete the project's scope of work.

II. Schedule

Our deliverables are currently on schedule and there are no existing threats to those deliverables.

III. Current and Planned Activities

The following activities took place during the reporting period:

- Task 1.2 – Apply Symbol Expansion Process in a Multi-Agency Office. Team members submitted a full report to describe the results of IICD symbology process testing that was completed in March. This report was reviewed by DHS and requests were made to revise the report in mid-May. A final revised report was developed by the project team and submitted to DHS.
- Task 2.2 – Develop technique for multi-scale / dynamic symbology. Raechel Bianchetti and Justine Blanford have continued developing a report on multi-scale symbology for submission to DHS in June.
- Task 3.3 – Develop Initial Prototype Symbol Store Capability. The team has finished incorporating code into the Symbol Store application for generating .style thumbnails from imported .style files. We were successfully able to demonstrate the Symbol Store application writing .style file contents to a MS SQL Server DB to support improved application scaling and significantly simplifying style storage and the process of generating new .style files. We deployed a new version of the Symbol Store complete with a .style upload page for internal testing purposes. Finally, we completed compilation of relevant Esri ArcGIS data layers to support map previews in Symbol Store.
- Task 4.3 – Present results at Geospatial conferences and workshops. The project team submitted three abstracts for presentation:

Elaine Guidero, Frank Hardisty, Alexander Klippel, Robert E. Roth, Anthony C. Robinson, Alan M. MacEachren. *Delving into the dynamic symbol: representing stepwise ordinal change in point symbols*. Abstract submitted to the Annual Meeting of the North American Cartographic Information Society.

Sarah Troedson and Anthony C. Robinson. *Using Web-Based Tools to Share Symbology: A Case Study with Mapmakers from the California Department of Water Resources*. Abstract submitted to the Annual Meeting of the North American Cartographic Information Society.

Raechel Bianchetti, Jinlong Yang, Rui Li, Justine Blanford, Frank Hardisty, Alex Klippel, Anthony C. Robinson, Alan M. MacEachren. *Informing point symbol design with card sorting methods*. Abstract submitted to the Annual Meeting of the North American Cartographic Information Society.

The following activities are planned for June:

- Submit a report on multi-scale / dynamic symbology
- Test and refine UI features to support upload and tagging of multiple .style files to Symbol Store
- Test and refine UI features for browsing and adding metadata to symbols contributed to Symbol Store
- Implement Symbol Store features to support dynamic map preview functionality

IV. Project Risks and Issues

The project is on schedule as documented in the statement of work.

V. Summary Assessment

The project is currently progressing as planned.

VI. Action Items

None.