WA-Trans Project Status

Presented to the Partners Group

June 10, 2003

Status Topics

- Communications and Outreach
- Partner News
- Steering Committee News
- Related Efforts
- Funding and Resources
- Project Deliverables Update
- Future Activities

Communications and Outreach

- Presentation to E-911 Coordinators and MSAG Coordinators statewide (March)
- Presentation to WSDOT Executives (April)
- Attended ATNI Tribal Technical Conference (May)
- WAGIC Presentation on Partnerships (May)
- Tribal Transportation Symposium (June)

Partner News - Meetings

- September 16
  - 1 p.m. – 3 p.m.
- December 3
  - 9 a.m. - noon
- 310 Maple Park Room 2F22, Olympia, Washington

Steering Committee News

- Activities.
  - Completed Business Needs Prioritization,
  - Working on data inventory (looking at other inventories),
  - Evaluating data models,
  - Met with Oregon to have them share about their transportation framework data model and pilots and their involvement in the Geo Spatial One-Stop Portal Pilot,
  - Strategic planning for pilot projects.

Steering Committee Activities

- Meetings.
  - June 23 in Olympia,
  - August 4 in Spokane,
  - September 15 in Tacoma
  - October 27 in Seattle
  - December 8 in Olympia
  - All meeting are from 9 a.m. to 2 p.m.

Related Efforts

- Puget Sound National Map Implementation
- IRICC Data Development Effort
- Bureau of Census TIGER/MAF Modernization

Funding and Resources

- Funding Efforts.
  - Request for U.S. Senate earmark for pilot in WSDOT Northwest Region was passed through WSDOT elimination process. Would be focused on transportation related business needs.
  - Need to begin establishing technical teams for pilots and “overarching” project technical direction..

Deliverables Status

- Requirements Specifications
  - Business Need Priorities
  - Data Needs
  - Specific Implementation Requirements
- I-Plan
- Data Model
- Pilot Project Strategies

Data Model

- Looking at Geo Spatial One-Stop Roads Model, Oregon Data Model and IRICC Roads Data Model,
- Performing initial screening to determine compatibility with business needs and data and identify if any will work and what modification may be required,
- Refine model through pilots.

Pilot Project Strategies

- Focused on the business needs – select one or more business needs to evaluate pilots by,
- Broad geographical area meeting limited business needs,
- Small geographical area meeting several business needs,
- Look for opportunities to automate integration and translation.

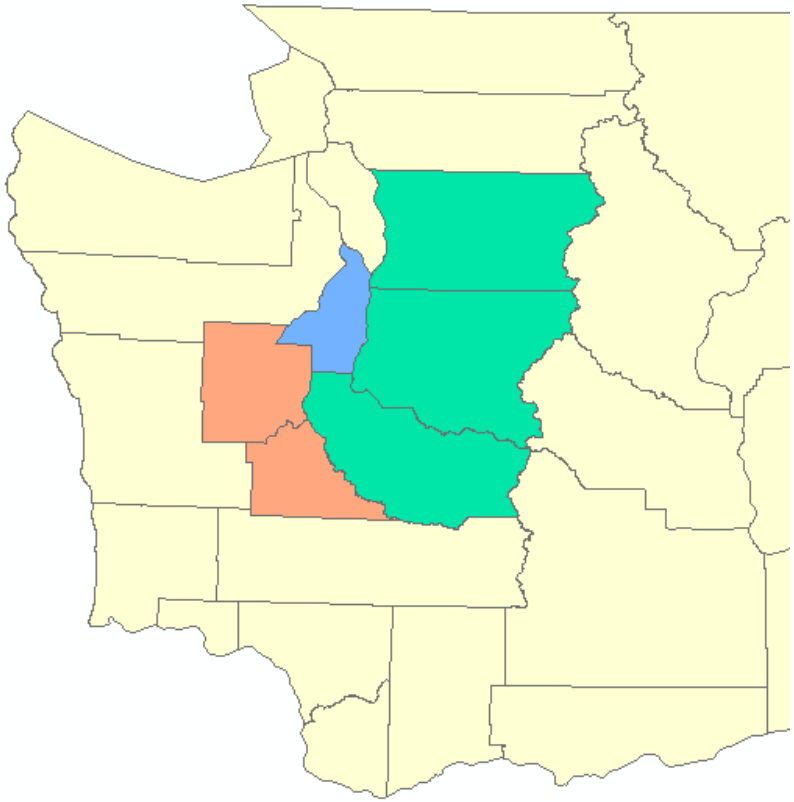
Pilot Projects Strategies

- Urban Pilot(s) – feds (TNM), state (WSDOT), county, municipal, transit, freight, multi-modal (road, rail, plane, ports);
- Rural Pilot(s) – state (WSDOT, WADNR, WA State Parks), county, municipal, tribal, Forest Service, BLM, private roads;
- Rural Pilot – No data. Could be combined with previous pilot.
- Border Pilots – Oregon, Idaho, British Columbia

Specific Pilot Project Opportunities

- Sound Transit, Puget Sound Regional Council, National Map Pilot
- Testing:
  - Data integration
  - Data model
  - Use of local data by federal agencies
  - Transit related business needs
  - Regional planning related business needs

Puget Sound Pilot Opportunity



Sound Transit

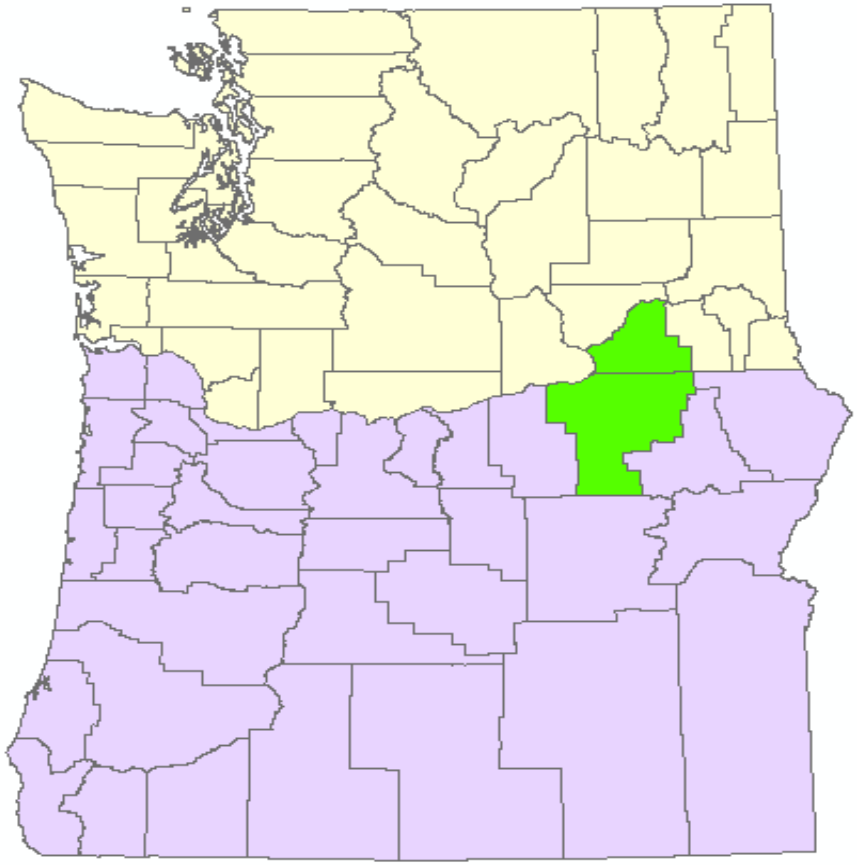
PSRC

National Map

Specific Pilot Project Opportunities

- Oregon/Washington pilot in Umatilla and Walla Walla Counties
- Very early stages of discussion
- Testing:
  - Data integration across state lines
  - Data model
  - Rural data issues

Walla Walla/Umatilla Cross Border



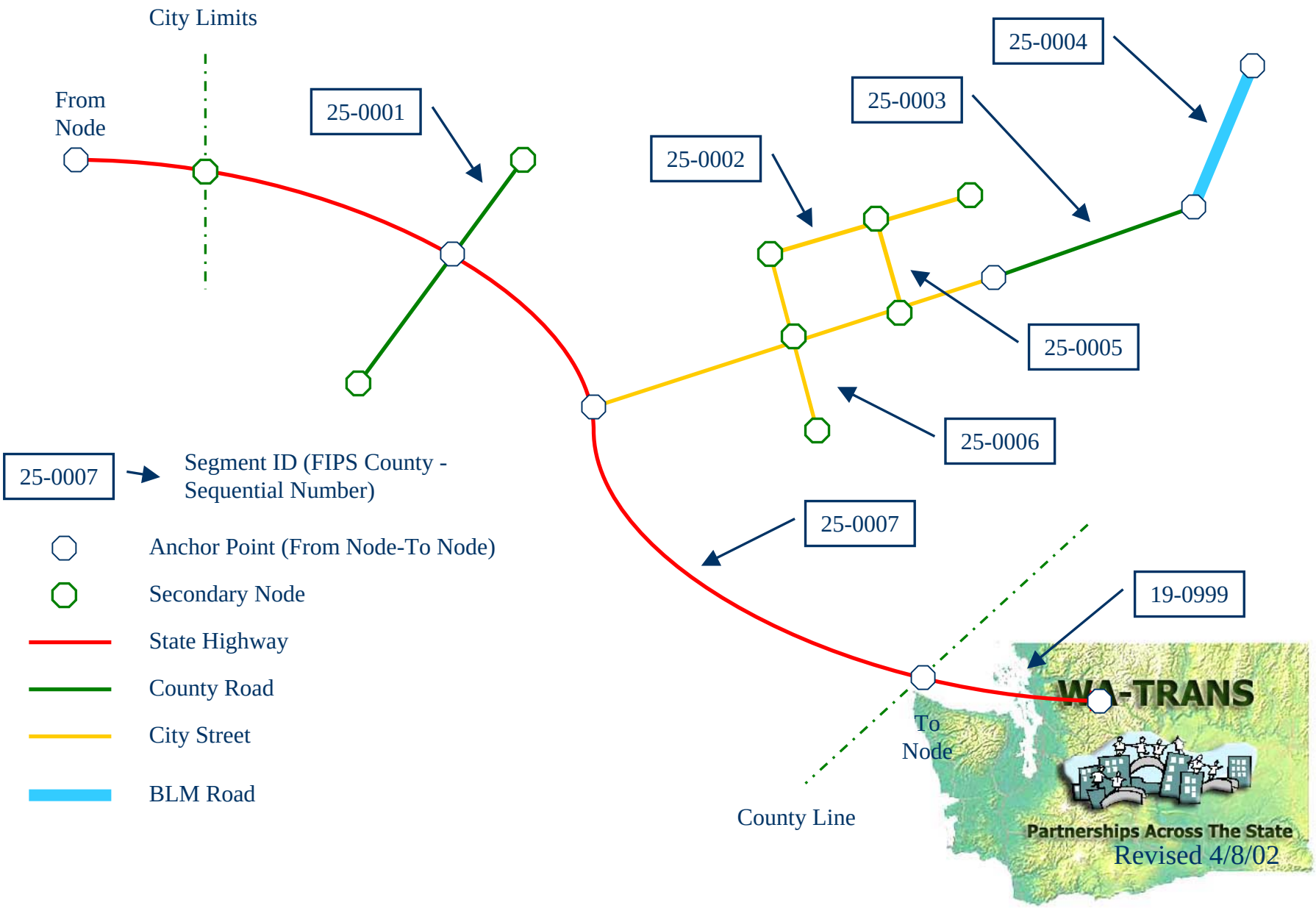
Future Activities

- Completing data model
- Beginning working on specific pilots
- Continue to seek funding opportunities and establish new partnerships.

Evaluation Criteria for Data Models

- Evaluated in terms of individual business needs
  - Supports,
  - Does not address but can be supported with linked attribution,
  - Does not address and we don’t know how it would,
  - Does not address, extensions of data model needed,
  - Blocks.

Oregon's FIT-Transportation
All Roads Project



Oregon FIT-Trans Minimal Data Structure

REQUIRED:

ITEM NAME	*TYPE*	*WIDTH*	*Description*
SHAPE	Shapeline	9	segment shape/geometry (generated internally)
UNIQUE_ID	Number	15.2	framework topological identifier (generated internally)
F_NODE	Number	8	from node; start point identifier for the segment
T_NODE	Number	8	to node; end point identifier for the segment
LOCAL_ID	String	11	local feature identifier
LENGTH	Number	16	Calculated length in map units (to 3 decimal places)
RDOWNER	String		Entity responsible for maintenance of segment
RDNAME	String	72	Entire street name
FROMLEFT	Number	10	Left low address range
TOLEFT	Number	10	Left high address range
FROMRIGHT	Number	10	Right low address range
TORIGHT	Number	10	Right high address range
MBEG	Number	10	Beginning RDOWNER mile measure (to 3 decimal places)
MEND	Number	10	Ending RDOWNER mile measure (to 3 decimal places)
CITY	String	32	City of segment
COUNTY	String	3	County FIPS code for segment
STATE	String	2	State FIPS code for segment
FUNC_CLASS	Number	2	Functional Class assigned by owner (superclass table?)

GeoSpatial One-Stop

- Standards for Roads, Railroad, Transit, Airports, and Waterways,
- Exchange Standards,
- Find information and copies of the standards at: http://www.geo-one-stop.gov/Standards/Transportation/index.html

IRICC Transportation Framework

Route Core Data

DRAFT 9/19/2000

D. Guenther, REO. Core_Data

The following lists the agreed upon set of core data necessary for the Transportation Framework project. All data is linked to spatial information, which defines a route. A route is a user defined section of road. This document will focus on describing the core data attributes only. For Framework spatial requirements please refer to the Transportation Spatial Requirements document. For Framework data standards for transportation structures, refer to the Framework

Structures Core Data document.

These elements were developed consensus from the partners. Core data is data common to all participating agency datasets. Core data may not include all common data, but relative to broad scale needs.

Data Elements:

1. File Header Information: **Required values are in bold type.**

This information pertains to all information being submitted. It describes a file transfer event, describing all data submitted.

Origination Date - Date the file or information is submitted.

Field Name: ORIGINATION_DATE Type: Date.

Validation Date - Date the data is current.

Field Name: VALIDATION_DATE Type: Date.

Projection - The name of the projection which the line work was developed in.

Field Name: PROJECTION**.** Type: Alpha. Size: 50.

Coordinate System - The coordinate system the line work was developed in.

Field Name: COORDINATE_SYSTEM Type: Alpha. Size: 50.

Datum - The geographic Datum the line work was developed in.

Field Name: DATUM. Type: Alpha. Size: 50.

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Pilot Project Objectives

- Project Management Objectives
  - Project Planning, tracking, clear scope, change management, communication.
- Design and Implementation Objectives
  - Data model testing, facilitate use of standards, test integration across jurisdictions, test for jurisdiction with no data, test framework related utilities (security, translation, maintenance, access, etc.).

Pilot Project Objectives

- Operational Objectives
  - Maintenance procedures for non-participating areas, regular update processes, QA/QC, data sharing agreements, data stewardship, licensing agreements, long-term change management.
- Coordination Objectives
  - Develop overarching technical and business view for WA-Trans across pilots, keep data model coordinated across pilots.

Pilot Project Objectives

- Results Analysis and Follow Up Objectives
  - Lessons learned, satisfaction of business needs, cost benefit analysis, communication of results, cost and time estimates, scope of first WA-Trans release, long term decisions regarding WA-Trans funding, residence and operations.