

Arizona Partnerships: For an all Public Road Network State Driven, Locally Owned



Navajo Nation

Wednesday January 29, 2014

Background



- The National States Geographic Information Council (NSGIC) which is constituted from a representatives from each state, started an initiative called “Transportation for the Nation” or (TFTN).
- It has long been recognized that a complete highway network was lacking in the US. The Strategic Plan that was created from TFTN identified the Highway Performance Monitoring System (HPMS) as the current best hope to accomplish a successful development of the initiative.

Background



Federal Highway Administration:

- Sent a memorandum to the state DOT's requiring an all public road network to be submitted to FHWA by June of 2014.



U.S. Department
of Transportation
Federal Highway
Administration

Memorandum

Subject: INFORMATION: Geospatial Network for All Public Roads Date: AUG 07 2012

From: David R. Winter, P.E. *[Signature]*
Director, Office of Highway Policy Information
James Cheatham *[Signature]*
Director, Office of Planning, Environment, and Realty

To: Division Administrators
Resource Center Directors

Reply to Attn. of: HPPI-20

The *Highway Performance Monitoring System (HPMS) Field Manual* includes the requirement for States to submit their linear referencing system (LRS) network for all roads eligible for Federal Aid. The purpose of this memorandum is to announce that this requirement will be expanded to cover all public roads including dual carriageways on divided highways for the

Background



Federal Highway Administration:

- In early 2013 FHWA started calling the All-Public-Road Network project ARNOLD (All Roads Network of Linear referenced Data)
- The TFTN calls for the ability to support addressing. FHWA is partnering with the US Census Bureau to capitalize on the hard work to produce the TIGER Line.
- Although there is no requirement for a State to report Address or address ranges in HPMS, it is anticipated that ARNOLD will be capable of supporting address data.

Challenges



Availability of Resources

- State DOT does not have sufficient staff to support this work and does not have enough knowledge of local roads

Statewide Coordination

- Many local agencies contribute data, how is this coordinated

Sustainability

- We want to assure this is not a one time proposition**

Availability of Resources



- ❑ **Arizona DOT**
 - ❑ **Has only 1-2 staff dedicated to centerline/LRS**
 - ❑ **Limited time and effort to research and validate every road in the state**
- ❑ **County, City, Tribal E911**
 - ❑ **Local staff are primarily focused on their areas only**
 - ❑ **Limited time and resources to connect response areas to State and other local jurisdictions**

Statewide Coordination



❑ Arizona DOT

- ❑ Developing a system of Demarcations points delineating jurisdictional edges
- ❑ Conducting a dedicated project to edge-match centerlines from around the state
- ❑ Bringing funding such as HSIP/SPR to aid in the creation of local centerlines and support coordinating technology
- ❑ Providing a common standard for statewide coordination

Statewide Coordination



County/City E911

- Brings dedicated focus on the local region
- The E911 system relies on very accurate data
- Has a business requirement to keep data current
- Next Generation E911 will improve an already capable system

Statewide Coordination



❑ **Combine State and Local efforts**

- ❑ **Arizona DOT coordinating with State Cartographer's Office, State 9-1-1 Office and Broadband Project**
- ❑ **Arizona DOT providing the drive to bring the road centerlines together with projects, guidance, and funding.**
- ❑ **County/City E911 own the local road and therefore have a high degree of focus on quality and accurate data.**

Statewide Coordination



Benefits

- Local roads data provided by Local sources results in increased data ownership and higher quality data
- Robust Linear Referencing for All-Public-Roads
- Common All Roads Network for all Arizona public roads
- Leveraging resources from other projects and stakeholders

Sustainability



- ❑ **Sustaining this effort can only be achieved through partnerships**
- ❑ **Partnerships between State and local governments combine resources to address common issues**
- ❑ **Work together to improve the overall data quality and improve coordination**
- ❑ **Partnerships build trust, trust builds sustainability**

Questions

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