



# Strategic Plan Development for Transportation for the Nation (TFTN)


GIS-T Symposium  
April 2010



## TFTN Project Objectives

2 Steve Lewis, GIO, US DOT

- Research and evaluate the need, scope, requirements, potential benefits and feasibility of TFTN
- Involve stakeholders in the information gathering and consensus building process



## TFTN and US DOT

US DOT is a full partner in TFTN

- Transportation Theme Lead for the NSDI
- Produce and maintain the National Transportation Atlas Databases (NTAD)
- FHWA HPMS Program collecting data from State DOTs
- Funding the Strategic Planning Effort



## TFTN Contractor Team



- Koniag Technology Solutions: Patricia Solano, Todd Barr



- AppGeo: Rich Grady, Michael Terner



## Strategic Planning Effort

Patricia Solano, Koniag Technology Solutions

- Identify and engage the entire stakeholder community
  - All levels of government
  - Private Sector
  - Citizens (e.g. OpenStreetMap community)
- Define requirements, challenges and opportunities
- Document progress already made, good ideas & challenge current assumptions
- Explore implementation issues
- Evaluate funding requirements and sources



## What Has Been Done?

### Outreach Activities



- USGS/Census Bureau sponsored meeting of federal stakeholders 10/09
- NSGIC Annual Conference 10/09
- TRB Presentation 01/10
- ESRI Federal User Conference 02/10
- TFTN Site: <http://www.transportationresearch.gov/TFTN/default.aspx>
- Press Releases
- 2010 GIS-T Symposium – **HERE WE ARE!**



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## The Road Ahead

- Creation of a Steering Committee
- Perform outreach activities: interviews, workshops, meetings, surveys, case studies, etc.
- Identification of what’s working, what’s needed – current practices, requirements, strategies, standards, documentation
- Identification of institutional constraints, capacity, operational authority, motivation, benefits, etc.

## Meeting Workshops

Date	Conference	Location
April 12-14 2010	GIS-T Symposium	Charleston, WV
July 12-16 2010	ESRI User Conference	San Diego, CA
TBD		
TBD		




## Issues and Ideas

Rich Grady, AppGeo

- What is TFTN?
- General description in NSGIC Issues Brief from 2008-2009
  - *Consistent, seamless nationwide dataset of addressable roads...*
  - *Multi-purpose, not single-purpose...*
  - *Participation from multiple levels of government...*
  - *Implementation will remove duplication of effort...*
- This project will attempt to further define what TFTN actually is/may become

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## A Potential Approach....

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- County and local governments are the best primary data source
  - County/local data rollup to regional (e.g. via MPO)
  - Regional data rollup to state
  - State data rollup to TFTN

*Standards enable this flow of data*

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## The Concept Might Seem Simple...

### *But The devil is in the details!*

- Multi-purpose means:
  - Shared geometric networks
  - Supports addressing and geocoding
  - Supports E911 dispatching
  - Supports linear referencing systems (LRS)
  - Supports fully routable road navigation
- Either the standard is complex, or “lowest common denominator” of geometry + simple attributes
- Multiple participants in data creation
- Requirements of ongoing and regular update

## What is the purpose of TFTN?

### *Is it to...*

- **Improve economic efficiency** by minimizing duplicate spending on collecting and maintaining the same road geometry and attributes across multiple levels of government and the private sector?
- **Identify the business processes** and inter-governmental data flows that support the repeatable roll-up of local roads to the national level (i.e. a supply chain)?
- **Establish a consensus choice** for the most complete, consistent, maintained, and public version of fully routable street centerlines for the nation?
- All of the above?
- None of the above?

## TFTN at GIS-T...What Does it Mean to You?

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- A diverse **panel of stakeholders** has been assembled

Session 1	Session 2
Steve Lewis, US DOT RITA/BTS Ron Vaughn, US DOT FHWA Randy Fusaro, Census Bureau Dan Widner, NSGIC	Tammy Lang, CDOT Skip Parker, NAVTEQ Melanie Seigler, VDOT Dave Blackstone, ODOT

- Each will answer the same questions in a “Lightning Talk” format (5 minutes each)
- We will then open it up to audience participation