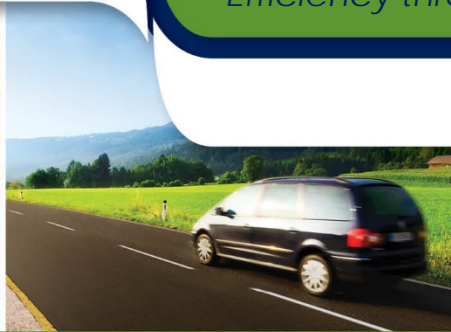


# Regional Models of Cooperation

Enhanced Data Sharing,  
Systems, and Tools

*Efficiency through technology and collaboration*



U.S. Department of Transportation  
Federal Transit Administration



U.S. Department of Transportation  
Federal Highway Administration

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# Purpose & Background

**Promote cooperation and coordination across MPO and State boundaries to develop a regional approach to transportation planning**

Supported by:

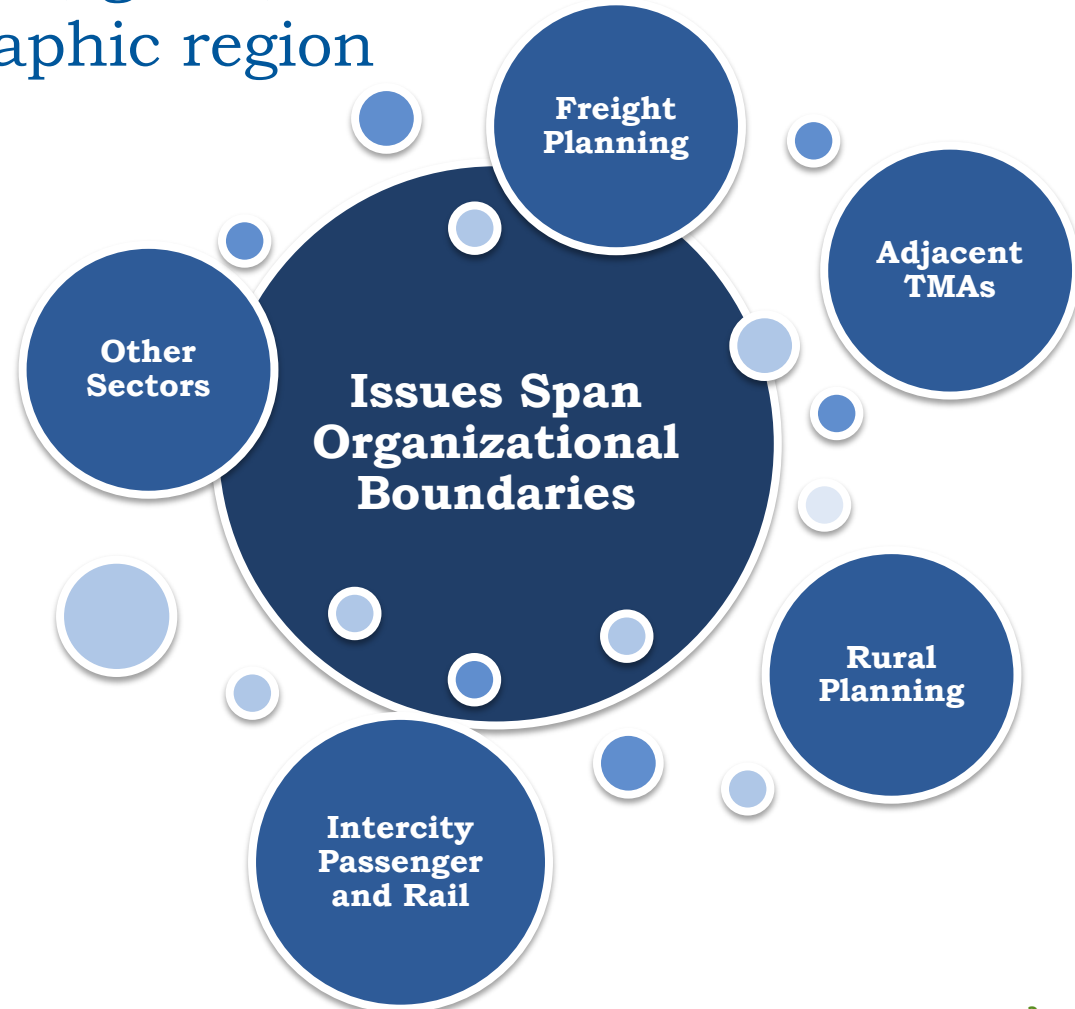
- Planning Emphasis Area (PEA) Fiscal Year 2016
- Every Day Counts (EDC-3)



---

# Why is Enhanced Coordination Needed?

Recognize mutual needs, goals, and objectives of the geographic region as a whole



---

# Regional Models of Cooperation Webinar Series

1. Regional Models of Cooperation Overview (Jan 27, 2015)
2. Air Quality Planning (August 25, 2015)
3. Regional Transit Planning (October 16, 2015)
4. Safety Planning (December 10, 2015)
5. Congestion Management (February 11, 2016)
- 6. Data Sharing Systems and Tools (April 28, 2016)**
7. Joint Planning Products (June 9, 2016)
8. New Technologies and Business Models (August 11, 2016)
9. Multimodal Planning Cooperation Across Jurisdictions (October 13, 2016)
10. Freight Planning (December 8, 2016)



---

# Today's Speakers

- **Brian Gardner**

FHWA Office of Planning

- **Kendall Wendling**

North Central Texas Council of Governments

- **Terry Corkery**

Florida Department of Transportation

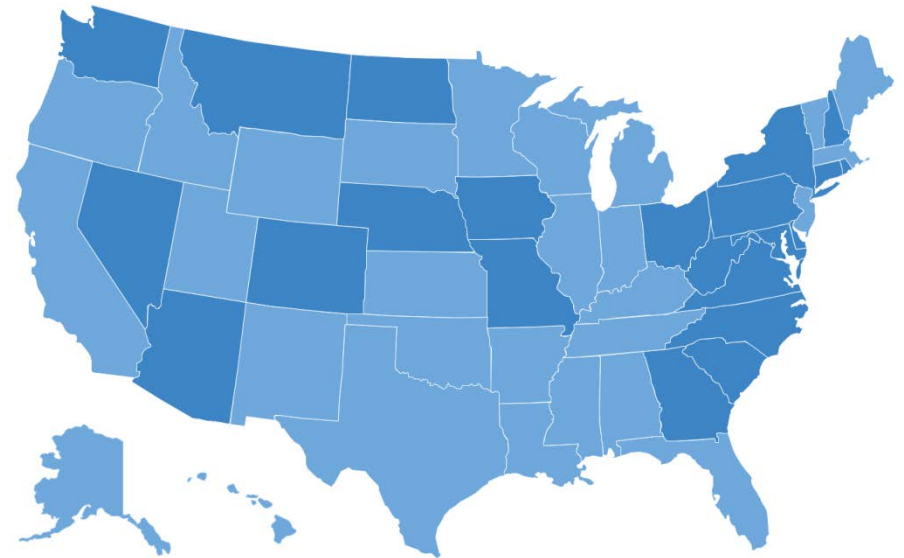


# **RMOC: Data Sharing & Tools Overview**

**Brian Gardner**  
**FHWA Office of Planning**  
**April 28, 2016**

# EDC2 Geospatial Tools for Data Sharing

- Discussions with **22 transportation agencies**
- **Case studies** describing agencies' experiences
- Two follow-on **peer exchanges** in Denver, CO and Raleigh, NC



States interviewed  
(dark shade indicates interviewed State)

# Geospatial Cooperation Case Studies

- Maricopa Association of Governments (MAG)
- Community Planning Association of Southwest Idaho (COMPASS)
- Ohio-Kentucky-Indiana Regional Council of Governments (OKI) and the City of Cincinnati
- San Diego Geographic Information Source (SanGIS) and the San Diego Association of Governments (SANDAG)
- West Central Florida MPO Chairs Coordinating Committee (CCC) and the Tampa Bay Area Regional Transportation Authority (TBARTA)

[https://www.gis.fhwa.dot.gov/documents/Regional\\_Models\\_Geospatial\\_Cooperation.htm](https://www.gis.fhwa.dot.gov/documents/Regional_Models_Geospatial_Cooperation.htm)



# Data-Sharing Benefits



Stronger Communications



Increased Efficiencies

A circular icon containing a data table with multiple columns and rows of numbers, representing improved data quality.

100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400
500	500	500	500	500
600	600	600	600	600
700	700	700	700	700
800	800	800	800	800
900	900	900	900	900
1000	1000	1000	1000	1000

Improved Data Quality



Streamlined Project Screening & Development



Informed Decision-making

# Data-Sharing Benefits



Stronger Communications



Increased Efficiencies

A magnifying glass icon with a blue handle, positioned over a data table with multiple rows and columns of numbers.

Improved Data Quality



Streamlined Project Screening & Development



Informed Decision-making

# Data-Sharing Benefits



Stronger Communications



Increased Efficiencies

A circular icon containing a data table with multiple rows and columns of numbers, representing improved data quality.

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99.00	98.00	0.00	97.00
100.00	99.00	0.00	98.00

Improved Data Quality



Streamlined Project Screening & Development



Informed Decision-making

# Data-Sharing Benefits



Stronger Communications



Increased Efficiencies

A circular icon containing a data table with multiple rows and columns of numbers, representing improved data quality.

100	1.00	1.00	1.00	1.00
200	2.00	2.00	2.00	2.00
300	3.00	3.00	3.00	3.00
400	4.00	4.00	4.00	4.00
500	5.00	5.00	5.00	5.00
600	6.00	6.00	6.00	6.00
700	7.00	7.00	7.00	7.00
800	8.00	8.00	8.00	8.00
900	9.00	9.00	9.00	9.00
1000	10.00	10.00	10.00	10.00

**Improved Data Quality**



Streamlined Project Screening & Development



Informed Decision-making

# Data-Sharing Benefits



Stronger Communications



Increased Efficiencies

A circular icon containing a data table with multiple rows and columns of numerical values, representing improved data quality.

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Improved Data Quality



Streamlined Project Screening & Development



Informed Decision-making

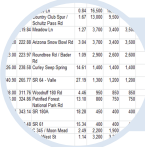
# Data-Sharing Benefits



Stronger Communications



Increased Efficiencies



Improved Data Quality

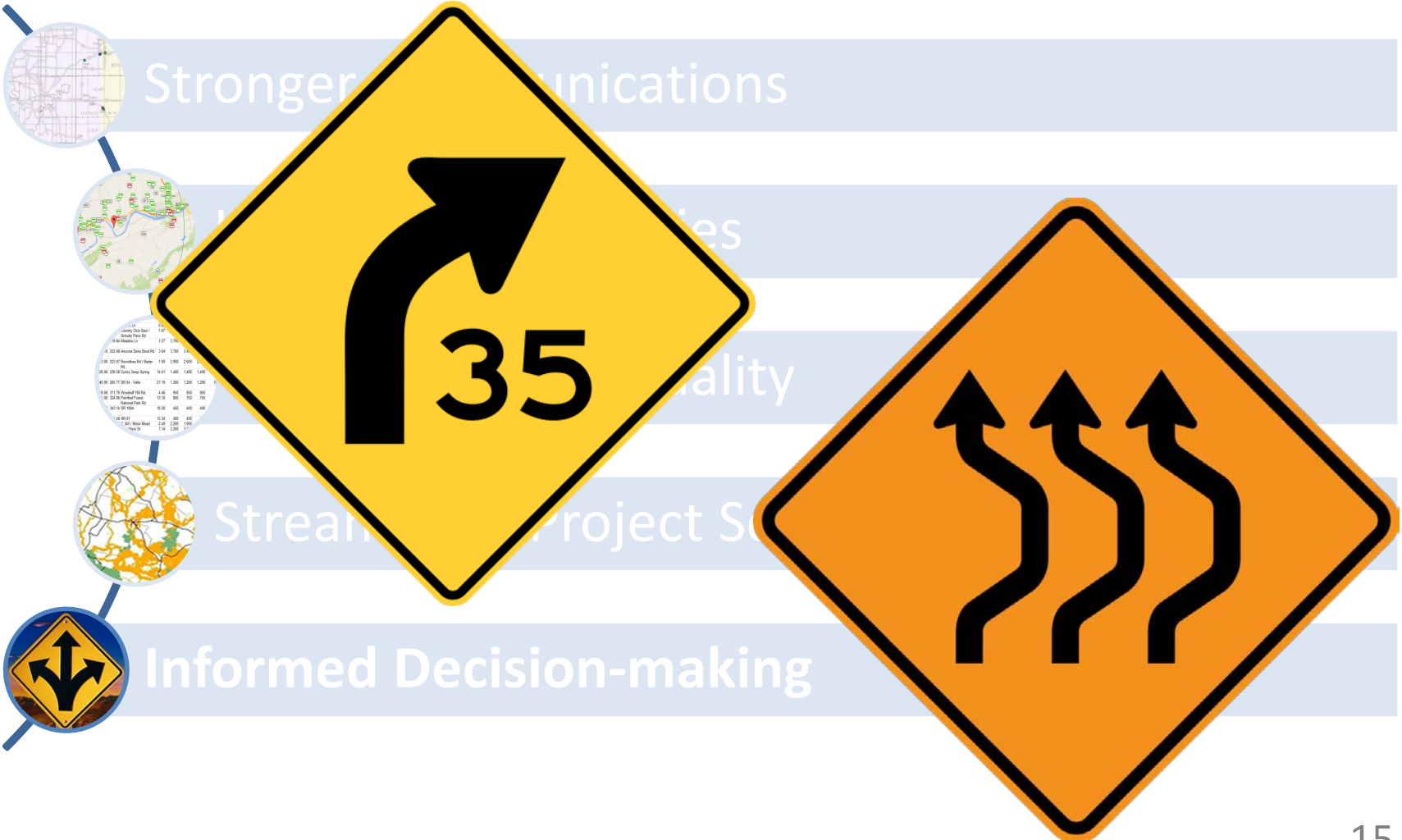


Streamlined Project Screening & Development



Informed Decision-making

# Data-Sharing Challenges



# Contact Information and Links

## **Mark Sarmiento**

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Washington, D.C.

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202-366-4828

## **Brian Gardner**

Team Leader  
FHWA, USDOT Headquarters  
Washington, D.C.

[Brian.Gardner@dot.gov](mailto:Brian.Gardner@dot.gov)

202-366-4061

## **FHWA GIS in Transportation Program**

[gis.fhwa.dot.gov](http://gis.fhwa.dot.gov)

## **Every Day Counts**

[www.fhwa.dot.gov/everydaycounts](http://www.fhwa.dot.gov/everydaycounts)

## **Geospatial Tools for Data Sharing Case Studies**

<https://www.gis.fhwa.dot.gov/documents/GeoSpatialToolsForDataSharingCaseStudies.htm>

## **Geospatial Cooperation Case Studies**

[https://www.gis.fhwa.dot.gov/documents/Regional\\_Models\\_Geospatial\\_Cooperation.htm](https://www.gis.fhwa.dot.gov/documents/Regional_Models_Geospatial_Cooperation.htm)

## **Eco-Logical**

[www.environment.fhwa.dot.gov/ecological/eco\\_index.asp](http://www.environment.fhwa.dot.gov/ecological/eco_index.asp)

## **American Association of State Highway and Transportation Officials**

GIS for Transportation Symposium

[www.gis-t.org/](http://www.gis-t.org/)





# Enhanced Data Sharing, Systems, and Tools: Dallas-Fort Worth Area Experience

Regional Models of Cooperation Webinar  
April 28, 2016

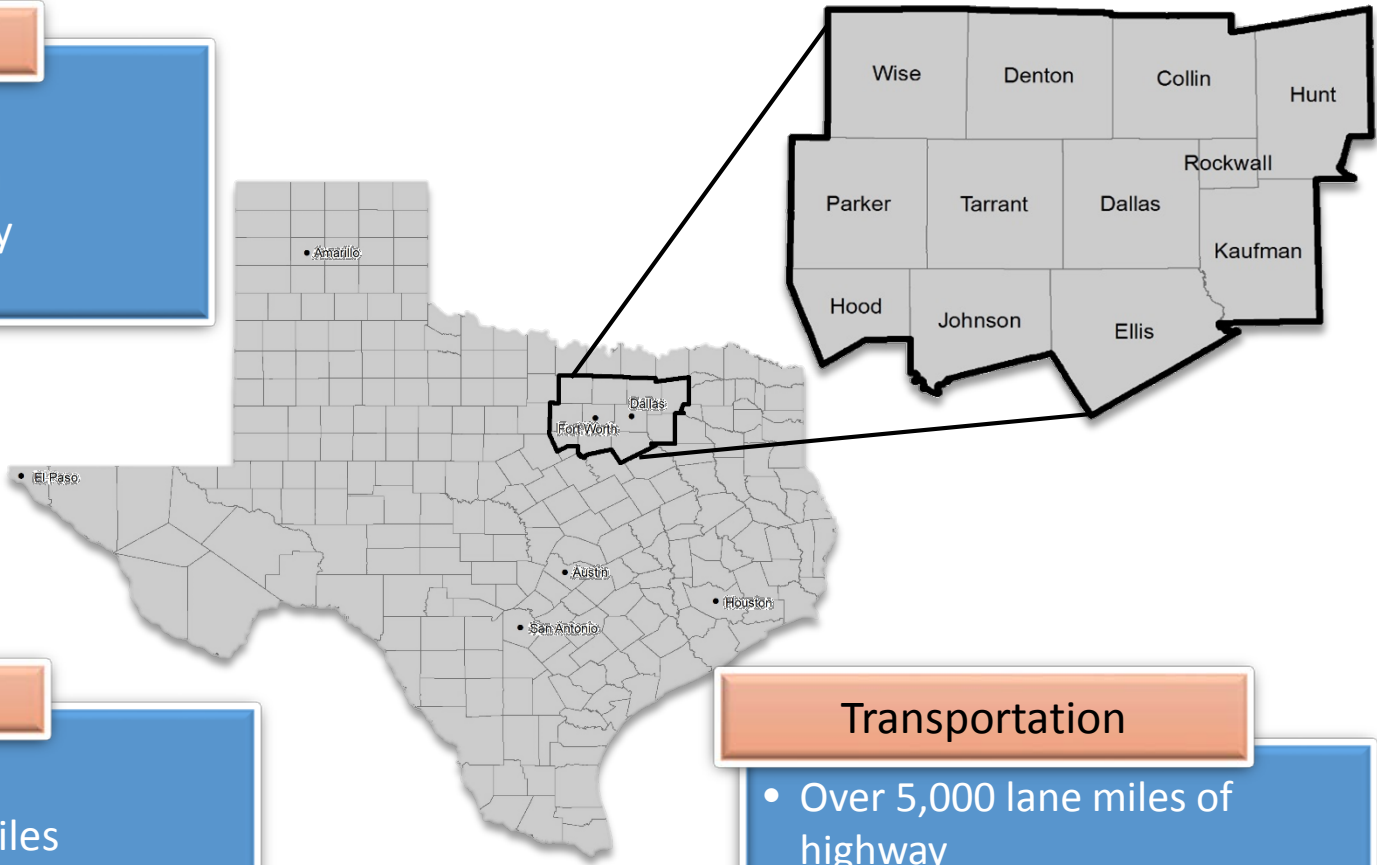


North Central Texas  
Council of Governments

# Regional Perspective

## Population

- 2015: 7.0 million
- 2040: 10.7 million
- 4<sup>th</sup> Largest MSA by Population



## Area

- 12 counties
- 9,441 square miles
- 2nd Largest Metropolitan Planning Area

## Transportation

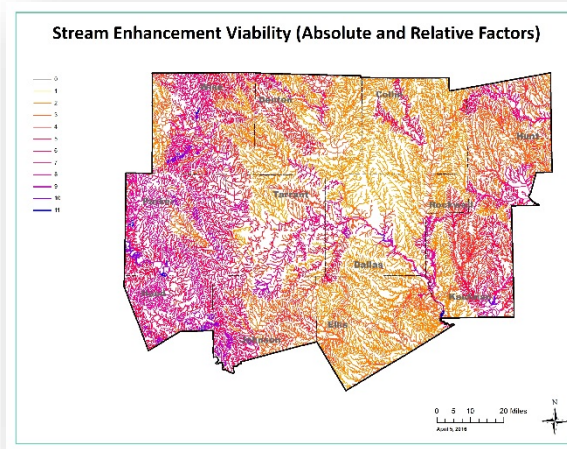
- Over 5,000 lane miles of highway
- Longest light-rail system in country
- \$118.9 billion identified in Mobility 2040 plan



# Eco-Logical at NCTCOG

- ✓ Regional Ecosystem Framework (REF) Update
- ✓ Loop 9 Corridor Feasibility Study Application
- ✓ REF Interactive Viewer

## Wetland and Stream Mitigation Assessment



- Technical Advisory Committee
- Conservation Stakeholder Group

# Regional Ecosystem Framework (REF)

NCTCOG REF is composed of 10 ecological layers

## Categories

### GREEN INFRASTRUCTURE

- Wildlife habitat
- Natural areas
- Agricultural land

### WATER CONSIDERATIONS\*

- Impaired water segments
- Flood zones
- Surface water quantity
- Wetlands

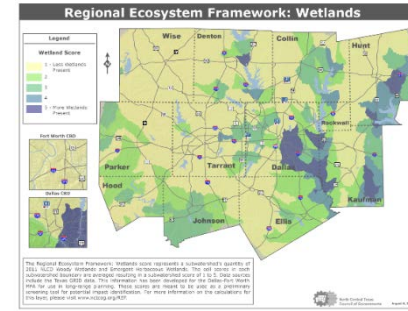
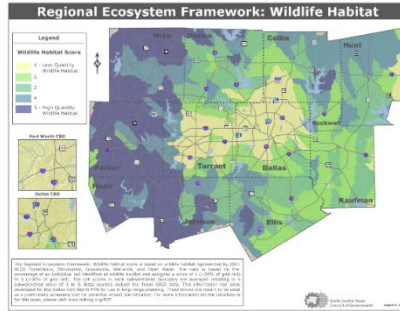
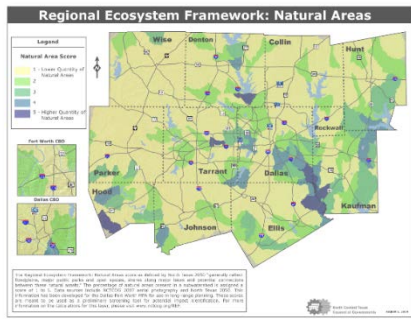
### ECOSYSTEM VALUE

- Rarity
- Diversity
- Ecosystem sustainability

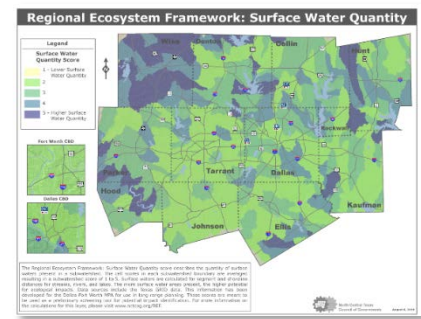
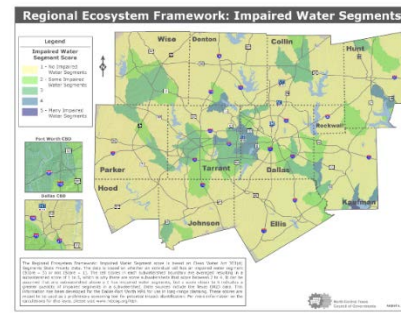
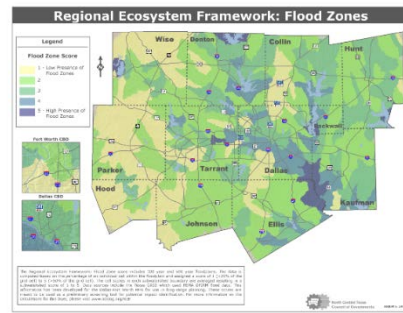
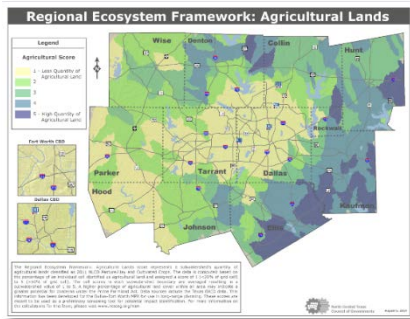


# REF Composite Map Structure

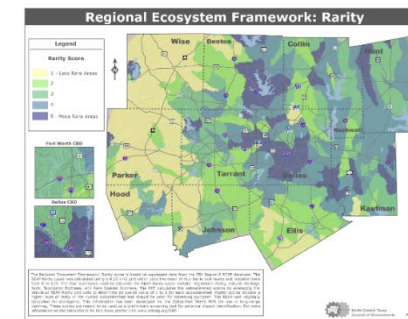
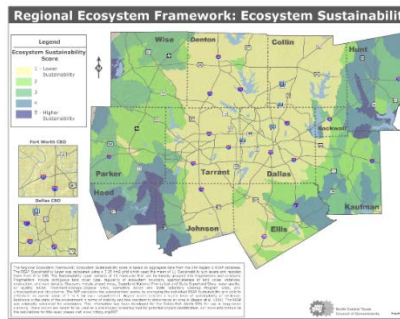
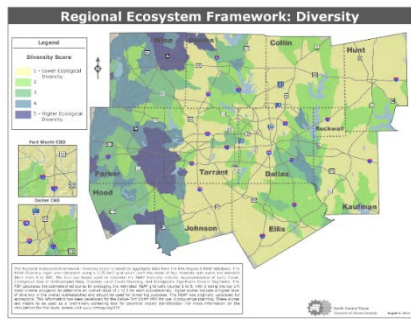
## Green Infrastructure Layers



## Water Considerations Layers

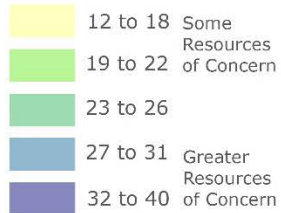


## Ecosystem Value Layers



# REF Composite Map

## REF Composite Score

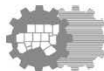
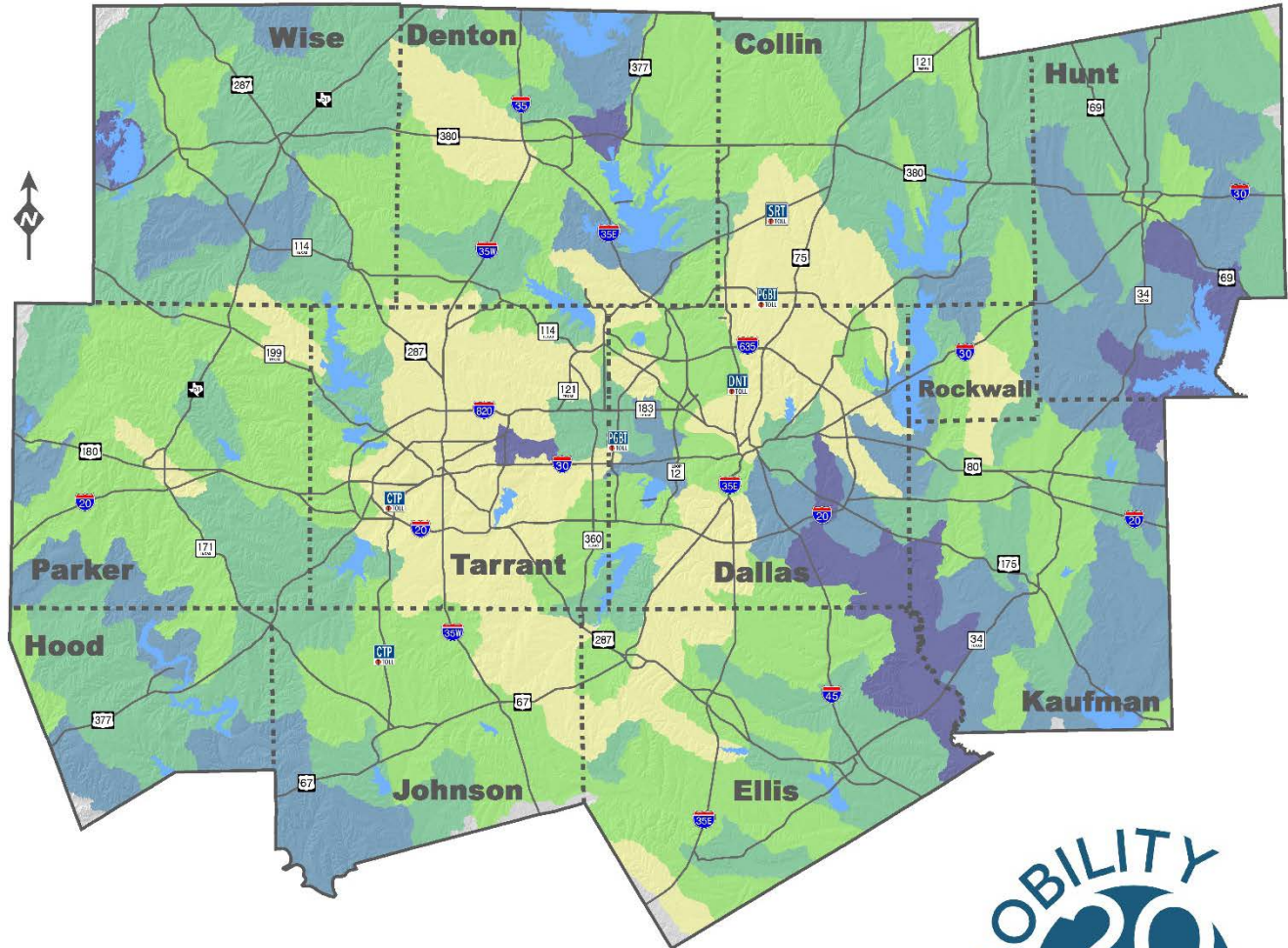


Major Roads

### Dallas CBD



### Fort Worth CBD



North Central Texas  
Council of Governments

March 2016



The Regional Ecosystem Framework: Composite score represents the combined score of all 10 REF layers. A higher score indicates that resources of relatively high concern may be present and that additional review, documentation, and consultation with the applicable agency may be needed. The REF layers include: Green Infrastructure (Wildlife Habitat, Natural Areas, Agricultural Land); Water Quality and Flooding (Impaired Water Segments, Flood Zones, Surface Water Quantity, and Wetlands); and Ecosystem Value (Rarity, Diversity, and Ecosystem Sustainability). Data sources include the Texas GRID and EPA Region 6 Regional Ecosystem Assessment Protocol data. This information has been developed for the Dallas-Fort Worth MPA for use in long-range planning. These scores are meant to be used as a preliminary screening tool for potential impact identification. For more information on the calculations for this layer, please visit [www.nctcog.org/REF](http://www.nctcog.org/REF).

# Sharing REF Data

## Data Categories

- Historic
- Land Use/Land Cover
- Outdoor Recreation and Conservation Areas
- Water Features
- NCTCOG REF

## Data Sources

- Environmental Protection Agency
- Federal Emergency Management Agency
- National Park Service
- Natural Resources Conservation Service
- US Army Corps of Engineers
- US Fish & Wildlife Service
- US Geological Survey
- Texas Commission on Environmental Quality
- Texas DOT
- Texas Historical Commission
- Texas Parks and Wildlife Department
- National Conservation Easement Database
- The Nature Conservancy



# REF Website Demo

**Regional Ecosystem Framework** What is REF? User Guide Data Dictionary Leave Feedback

Esri World Geocoder

**Impaired Stream** (1 of 4)

Segment ID: 0841R  
Segment Name: Rush Creek  
Stream Miles: 1.02  
Description: A 5 mile stretch of Rush Creek running upstream from confluence with Village Creek to confluence with Kee Branch in Arlington, Tarrant Co.  
Year: 2012  
[Zoom to](#)

**Layer List**

- Small Water Bodies
- Ecologically Significant Streams
- Named Streams
- National Wetlands Inventory
- 303(d) Streams
- Impaired Streams
- 303(d) Lakes
- Impaired Lakes
- Watershed Protection Plans
- TMDL IPlan Area

Options Filter by Map Extent Zoom to Clear Selection Refresh

Segment ID	Segment Name	Stream Miles	Description	Year
0841R	Rush Creek	1.02	A 5 mile stretch of Rush Creek running upstream from confluence with Village Creek to confluence with Kee Branch in Arlington, Tarrant Co.	2012
0841T	Village Creek	5.91	A 7 mile stretch of Village Creek running upstream from confluence with West Fork Trinity River to SH 303 approx. 0.75 mi. downstream of Lake Arlington.	2012

## REF Interactive Viewer





# Interactive Mapping Site Logistics

## ESRI ArcGIS Online Mapping Platform

Cost approximately \$10,000

- Budgeted 300 hours in staff time
- Purchased ESRI data credits

## Key Takeaways

- Data organization is critical
- Methodology to create spatial layers should be documented
- Be transparent when incorporating feedback from stakeholders



# Partnership Emphasis

## Transportation Resource Agency Consultation and Environmental Streamlining (TRACES)

Builds consensus on environmental and transportation connections in transportation planning process

## Planning and Environmental Linkages (PEL) Working Group

Works with TxDOT environmental coordinators to streamline project delivery

## Technical Advisory Committee

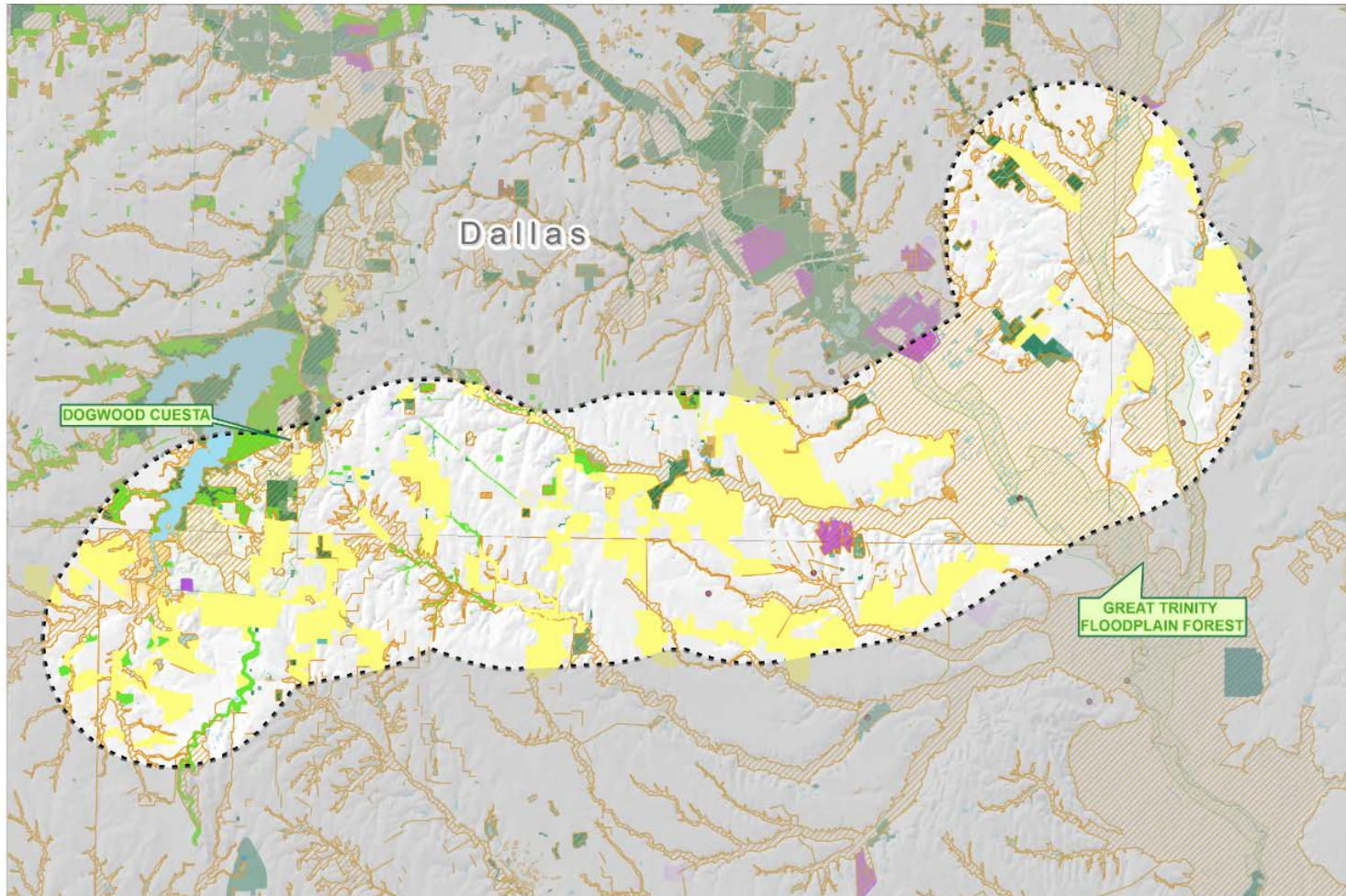
Provides input on selecting wetland data sources and factors to use to identify potential mitigation sites

## Conservation Stakeholder Group

Discusses challenges and opportunities shared by conservation groups, resource agencies, and NCTCOG



# REF Application



## LOOP 9 CORRIDOR AREA CONSERVATION VISION - DRAFT

Future Opportunity Areas for Potential Mitigation, Conservation, Preservation Projects

### Known Conservation Opportunities

- Future Parks (FLUM)
- TRND Priority Conservation Areas
- Native Upland Forest (TXNDFU)
- Native Prairie (TXNDC)
- Native Riparian (TXNRD)
- Future Flood Control (FLUM)
- Wildlife Management Banks
- Existing Mitigation Banks

### Existing Dedicated Areas

- Parks/Recreation from Land Use
  - Federal
  - State
  - Local, Regional, Special District
  - Private
  - Other Unknown, Non-Governmental
- Existing Conservation Easements
- Wildlife Management Banks
- Existing Mitigation Banks

### Historic Sites and Cemeteries

- National Register Points
- National and State Historic Sites
- Cemeteries
- Water
  - Subwatersheds
  - Water, Streams
  - Flood Control Infrastructure

### Other

- Active Landfill
- Closed Landfill


Date Source: NCTCOG 2010 Land Use, NCTCOG Future Land Use Plans, National Conservation Easement Database (Acquired 2014), USGS Protected Areas Database of the US (July 2014), NCTCOG Texas Conservation Easement (Acquired 2014), TRND Land and Water Resource Conservation and Recreation Plan (Approved 2014), TRND Wildlife Management Areas (Acquired 2014), TRND Riparian Stream Segments (Acquired 2014), TRND Springs (Acquired 2014), Conservation Easements (Acquired 2014), USACE Migration Banks (Acquired 2014), FWSA 2010 Review (Acquired 2014), NCTCOG Landfill Sites (Acquired 2014), TRND Texas Inland Diversity Database (Acquired 2014).


Prepared August 2014, With Council Team Council of Government



# REF Application

Resource Category	Scoring Question	Mobility 2040 Transit Project
		Dallas Streetcar: <i>Cedar Springs to Zang Blvd.</i>
Water	Within 1.0 miles of the 100 year flood plain?	N
	Within 1.0 miles of an Impaired Water Segment?	N
	Within 1.0 miles of an NLCD wetland?	Y
	Surface Water Percent	1
Ecology	Within 1.0 miles of a federal/state park or wildlife area?	N
	Within a Priority Conservation Area as designated by The Nature Conservancy?	N
	Within 1.0 miles of an area with an REF Diversity score of 5?	N
	Within 1.0 miles of an area with an REF Rarity score of 5?	N
	Within 1.0 miles of an area with an REF Ecosystem Sustainability score of 5?	N
Land Cover	% Wildlife Habitat	5
	% Agriculture	2
	% Wetlands	1

 Indicates medium-high and high scores (4 and 5) resulting from the EPA GISST analysis tool.

 Indicates low, medium-low, and medium scores (1,2, and 3) resulting from the EPA GISST analysis tool.



# Benefits

Created one-stop shop for region-specific environmental data

Built partnerships with non-traditional agencies

Started conversation about using common spatial data for both planning and NEPA

Interactive nature of Website leads to more feedback and knowledge of data updates



# Lessons Learned

## Resource & Regulatory Agencies

- Offer to compile or digitize data
- Rely on their expertise
- Speak a common language

## TxDOT

- Show how ecological data can enhance their existing feasibility study process
- Create template showing how REF data could be used in corridor study (next step)

## Consultants

- Promote use of REF Website to streamline their work



# Contact Information

**Project Info:** [www.nctcog.org/ref](http://www.nctcog.org/ref)

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# REGIONAL MODELS OF COOPERATION STATE OF FLORIDA



Terry Corkery, FDOT  
April 28, 2016

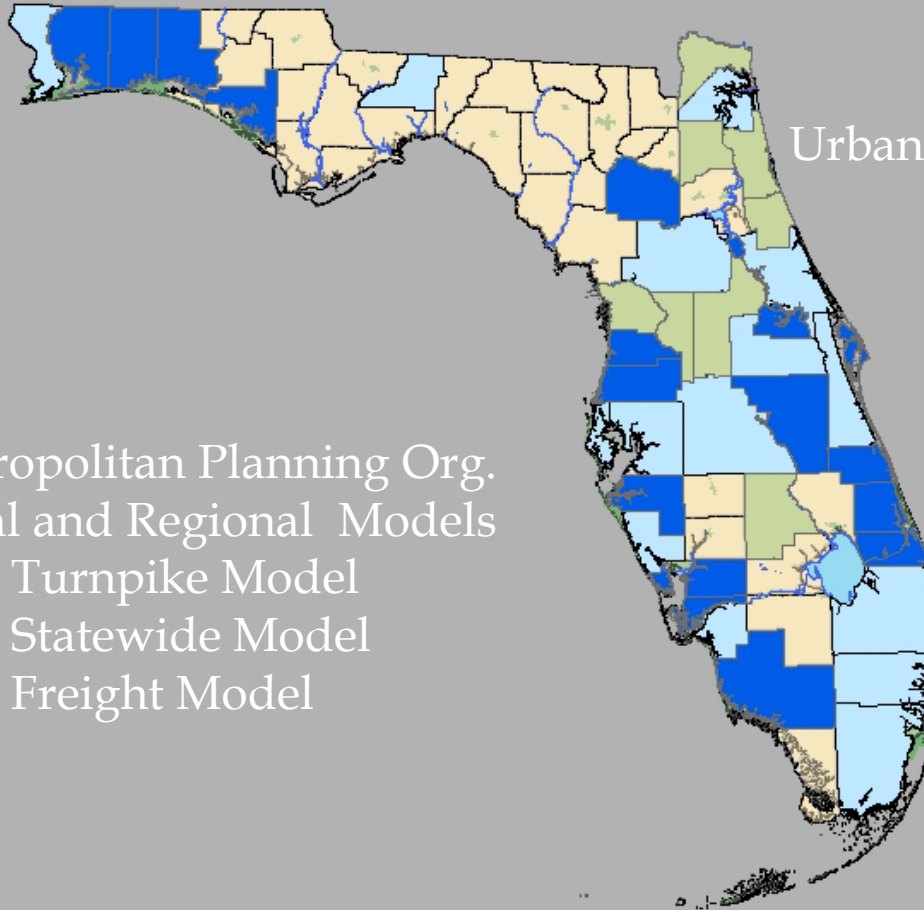


# Agenda

- ▣ Florida Model Task Force
  - Organization of the MTF
  - MTF Activities
- ▣ FSUTMS
  - Platform
  - Training
- ▣ Research
- ▣ Data Sharing



# Florida Models



Urban Areas: 2016

- 27 Metropolitan Planning Org.
- 10 Local and Regional Models
- Florida Turnpike Model
- Florida Statewide Model
- Florida Freight Model

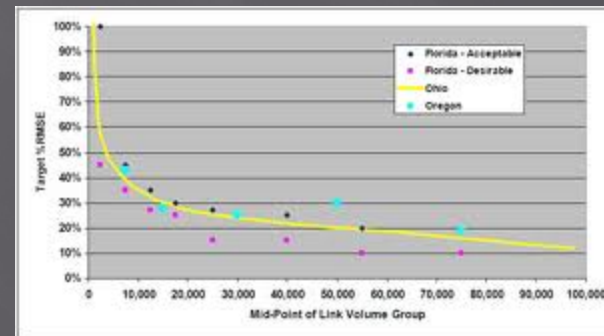
# Travel Demand Model Uses

- ▣ MPO Plans
- ▣ Corridor Plans
- ▣ PD&E Studies
- ▣ Final Design Plans
- ▣ Interchange Justification Reports
- ▣ Comprehensive Plans
- ▣ Development Traffic Impact Analyses
- ▣ Toll Feasibility Studies



# Florida Model Task Force

- ▣ Who supports all these models?
  - FDOT Central Office – model standards and outreach
  - FDOT District Offices – model development, validation
  - MPOs – LRTPs, socioeconomic data, validation
  - Consultants – lead or support technical analysis
  - Universities - research



# Florida Model Task Force

- ▣ Model Task Force Membership
  - 8 FDOT Districts
  - 27 MPOs
  - Public Transit Agencies
  - Model Users' Groups
  - FHWA
  - Consultants (non-voting)



# Model Task Force

- ▣ Mission:

To advance model development and applications to serve the transportation planning needs of the Department and local governments.

- ▣ Operation:

The Model Task Force will operate in a responsive, consistent, and credible manner to establish standardized and uniform modeling practices.

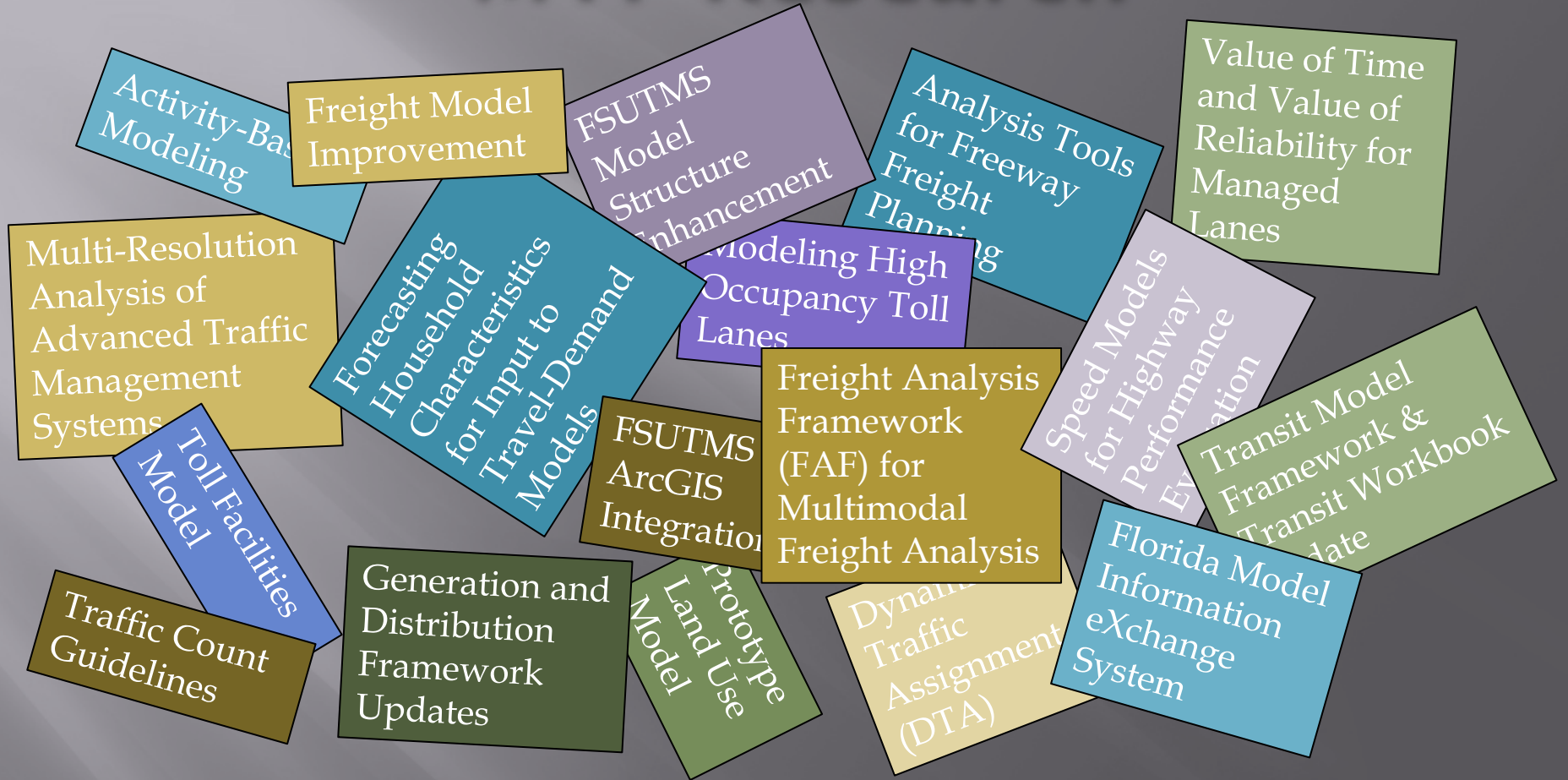


# Model Task Force

- ▣ Full Model Task Force
  - Panel discussions on relevant topics
  - Research presentations
- ▣ Committees
  - Data
  - Transit
  - GIS
  - Model Advancement
  - Freight



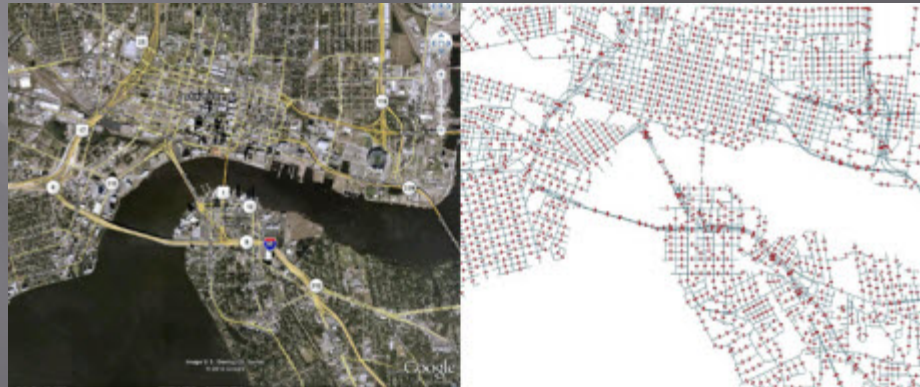
# MTF Research





# MTF: Benefits

- ▣ Meeting of the Florida Modeling Community
- ▣ Gives a voice to model users
- ▣ A steering group setting the direction of Florida's continually evolving standard model structure
- ▣ Essential to maintaining a standard model



# FSUTMS

- ▣ Florida Standard Urban Transportation Model Structure
- ▣ Consistent and uniform modeling platform
  - Establishes modeling framework
    - ▣ Procedures
    - ▣ Techniques
- ▣ Cube Voyager – main modeling engine
  - Cube Avenue (Mesoscopic Model)



# FSUTMS

- ▣ Standard Development of:
  - User interface
  - Directory Structure
  - File Naming Convention
  - Input/Output files and Database Field Names
  - Default Model Parameters/Coefficients
  - Network Coding Standards
  - Model Structure and Applications
  - Output Reports



# FSUTMSOnline.net

WELCOME TO THE OFFICIAL WEB PORTAL FOR  
**FLORIDA TRANSPORTATION MODELING**

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Photo Gallery



## Welcome to FSUTMSOnline

This web portal is maintained by the [Systems Planning Office](#) of the Florida Department of Transportation. It is designed to serve as a central location for the exchange and sharing of data, information and ideas among the transportation modelers in Florida. We hope you will find it useful and visit often.

[Read More](#) | [Posted by Terry Corke](#)

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# MTF Directions

- ▣ Continue to support the Florida Modeling Community
  - Research
  - Discussion
  - Information
- ▣ Model Improvements
  - Advances in modeling techniques
  - Translate research into applications
- ▣ Semi-annual Meetings



# Further Information

- ▣ [FSUTMSOnline.net](http://FSUTMSOnline.net)

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Florida Department of Transportation

Transportation Statistics Office

605 Suwannee Street, MS 19

Tallahassee, FL 32399

(850) 414 - 4903



# Thank You



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# Questions?

- **Please enter your questions into the Q&A Pod on your screen**
  - The moderator will direct your question to the appropriate presenter.
  - Slides from today' presentation are available in the download pod
- **For more information on the Regional Models of Cooperation initiative, please visit:**  
[http://www.fhwa.dot.gov/planning/regional\\_models/](http://www.fhwa.dot.gov/planning/regional_models/)





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# Thank You!

- **For more information on the Regional Models of Cooperation initiative, please visit:**

[http://www.fhwa.dot.gov/planning/regional\\_models/](http://www.fhwa.dot.gov/planning/regional_models/)

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