12 August 2010

Summer Conference Season Wrap-up

Agenda

- SLA Annual Conference
- LIST Midyear Meeting
- NTKN Annual Meeting
- AASHTO TKN TF at National RAC Meeting
- Scientific Data Management Workshop
- ALA Annual Conference
- Other Summer conferences???

Transportation Knowledge Networks (TKN) Task Force

Meetings

- Met July 26, 2010 at the National Research Advisory Committee meeting in Kansas City, MO
- Monthly conference calls
  - 1st Thursday, 8:00 to 10:00 Pacific time

Mission

- The TKN Task Force serves as a forum to develop the concept, understanding, and application of transportation knowledge networks for the transportation sector. The TKN Task Force advocates and supports the rapid and efficient exchange of information resources through development of strategies and the innovative use of technology.

Members – RAC

- RAC 1 Gary Frederick, NYSDOT
  Lynn Matis, Mass DOT
- RAC 2 Ken Winter, VA DOT
  Sandy Brady, LA DOTD
- RAC 3 John Cherney, WisDOT
  Marie Manthe, KDOT
- RAC 4 Leni Oman, WSDOT – TF Chair
  Ron Curb, OKDOT

Members – Other

- RITA Amanda J. Wilson
- FHWA Dawn Vanlandingham
- TRB Barbara Post
- CUTC Arlene Mathison, CTS
- SLA TD Rita Evans, ITS Berkeley
- ETKN Ken Winter
- MTKN Marie Manthe
- WTKN Laura Wilt
- LIST Sandra Tucker

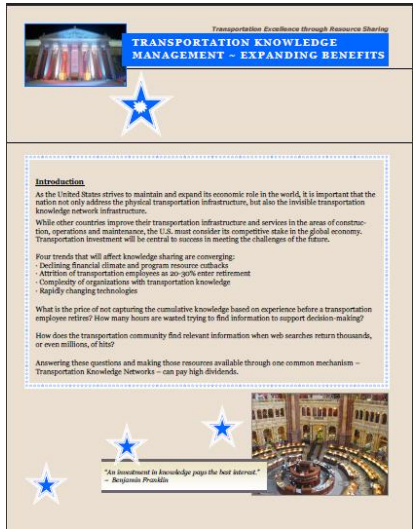
<u>Friends</u>

Members of all Regional TKNs

Others from Federal agencies, National organizations, and AASHTO RAC

2009 Accomplishments

- TKN TF Website is populated
- Better common understanding of TKNs
- *Transportation Knowledge Management: Expanding Benefits* publication
  - January 2010
- Two NCHRP problem statements
  - Became NCHRP 20-90 *Improving Access to Transportation Information*
- Participated in 2nd NTKN meeting
  - June 2010


Transportation Excellence through Resource Sharing

TRANSPORTATION KNOWLEDGE MANAGEMENT ~ EXPANDING BENEFITS

Introduction

As the United States strives to maintain and expand its economic role in the world, it is important that the nation not only address the physical transportation infrastructure, but also the invisible transportation knowledge network infrastructure.

While other countries improve their transportation infrastructure and services in the areas of construction, operations and maintenance, the U.S. must consider its competitive stake in the global economy. Transportation investment will be central to success in meeting the challenges of the future.

Four trends that will affect knowledge sharing are converging:
- Declining financial climate and program resource cutbacks
- Attrition of transportation employees as 20-30% enter retirement
- Complexity of organizations with transportation knowledge
- Rapidly changing technologies

What is the price of not capturing the cumulative knowledge based on experience before a transportation employee retires? How many hours are wasted trying to find information to support decision-making?

How does the transportation community find relevant information when web searches return thousands, or even millions, of hits?

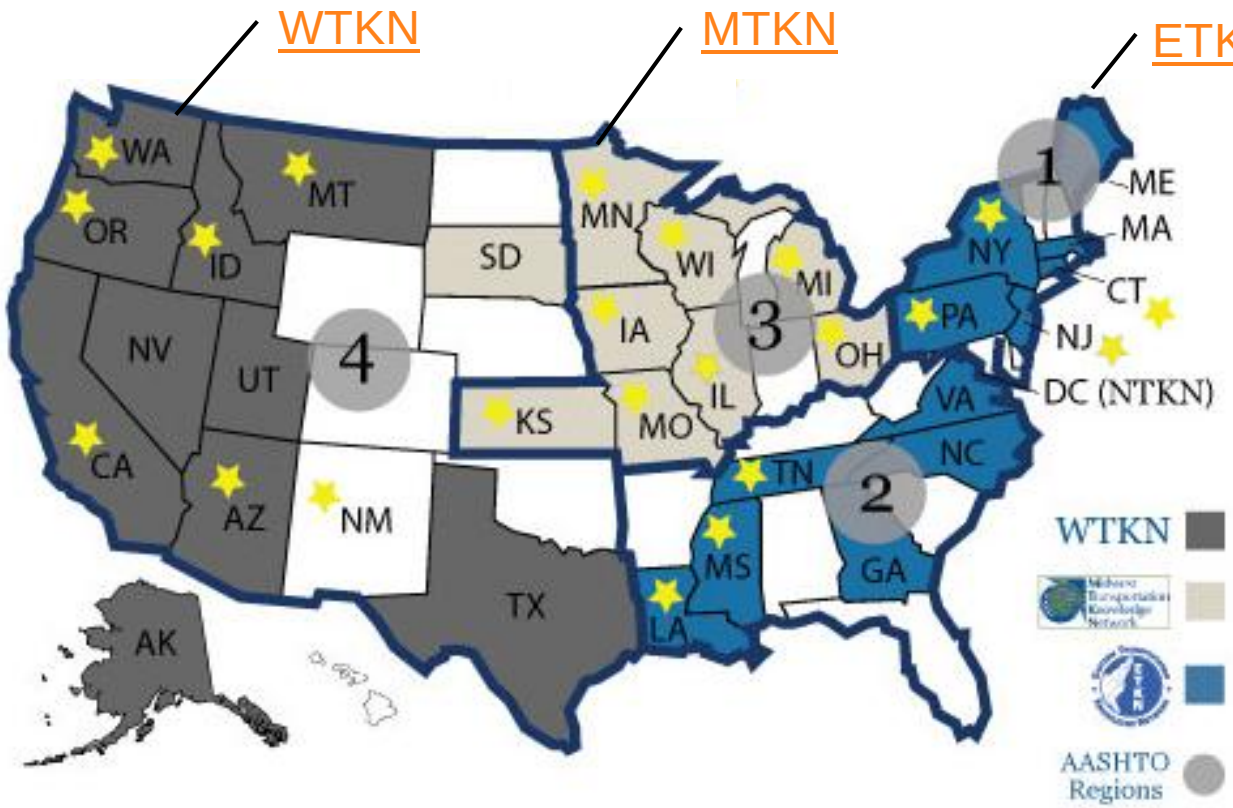
Answering these questions and making those resources available through one common mechanism – Transportation Knowledge Networks – can pay high dividends.

"An investment in knowledge pays the best interest."
– Benjamin Franklin

2010 Goals & Activities

- Continue to advocate for TKNs
- Collaborate on NTKN Strategic Plan
  - Role clarification
- Reach out to the user community
  - Engage RAC, Data Section, and others (LTAP?)
- Seek additional resources for pilot activities
- NCHRP Monitoring
  - 20-90 *Improving Access to Transportation Information*
  - 20-89 *Intellectual Property Stewardship Guide for Transportation Departments*

Transportation Knowledge Networks – 2010



- *3 Regional TKNs*
- *57 total member agencies : State DOTs, MPOs, Transit Agencies, Private Firms, Universities*
- *Pooled Fund Study focusing on library connectivity and providing some support for TKN activities*

Map courtesy of the Transportation Library Connectivity Pooled Fund Study - TPF-5(105)

For More Info

- Leni Oman
  - OmanL@wsdot.wa.gov
  - 360.705.7974

Transportation Research Collaboration Portal

U.S. DOT Priority Areas and Research Clusters

DOT Priority Areas
▪ Safety ▪ Livability ▪ Environmental Sustainability ▪ Economic Growth ▪ State of Good Repair

Current Research Clusters
▪ Infrastructure & Materials ▪ Human Factors ▪ Energy Sustainability ▪ Risk-Based Analysis to Address Safety Issues ▪ Data Driven Decision Making ▪ Multimodal Intelligent Transportation Systems ▪ Livability ▪ Modeling and Simulation ▪ Positioning, Navigation & Timing ▪ Transportation Implications For an Aging Population and Those with Special Needs ▪ System Resilience & Global Logistics ▪ Policy Analysis ▪ Travel Behavior ▪ Economics

DOT Research Clusters

RITA moving to provide online coordination and collaboration tools – with valued input from RAC/Research Coordination and Collaboration Task Force

- **DOT Research Clusters**
  - DOT RD&T Planning Team identified clusters of needed research that apply across all modal administrations as well as researchers working in these areas.
  - RITA is developing an external SharePoint site to facilitate collaboration across the transportation research enterprise – currently in beta testing with DOT researchers.
  - Schedule being driven by Federal IT requirements, especially security
    - DOT -funded researchers (UTCs) – access early fall
    - External researchers (state DOTs) – access late fall/early winter
  - Anticipate webinars and other forums to facilitate enterprise collaboration in these research areas.

We're excited about how this is going to help us all do our jobs better

Data-Driven Decisionmaking
Economics
Energy Sustainability
Human Factors
Infrastructure & Materials
Livability
Modeling & Simulation
Multimodal Intelligent Transportation Systems
Policy Analysis
Position, Navigation & Timing
Risk-Based Analysis to Address Safety Issues
System Resilience & Global Logistics
Transportation Implications for an Aging Population and Those with Special Needs
Travel Behavior
How to Use This Site
Shared Documents
Discussion Board
Calendar
Pictures

DOT Research Clusters

These research clusters promote information sharing and collaboration among the hundreds of DOT-funded researchers and their colleagues across the nation.

If you like to participate in any of these issue areas by posting your resesarch and commenting on the works of others, please contact research.clusters@dot.gov with your name, organization, phone number and e-mail address and the clusters in which you would like membership. You then will be sent a log-in and password.

Content Editor Web Part

People Sharing Research

Status of Sites

Clusters sites curently are in beta testing with DOT researchers. The sites are expected to go live in October with DOT-funded researchers joining the dialogue. All stakeholders will be able to join by late fall.

Discussion Board: Post your Questions and Answers

Shared Documents

Activities, Publications, and Products

Whats New!

Calendar of Events

There are currently no upcoming events. To add a new event, click "Add new event" below.

Add new event

RSS Viewer

TRB Transportation Research Information Services (TRIS)

Prior sleep, Prior Wake, and Crew Performance During Normal Flight Operations

Required hours of practice for learner drivers: A comparison between two Australian jurisdictions

Comparing Visual Performance and Useful Field of View of Older and Younger Drivers

A Case-Crossover Study of Sleep and Work Hours and the Risk of Road Traffic Accidents

Examining the Relationship Between Cognition and Driving Performance in Multiple Sclerosis

Search the National Transportation Library Database

- NTL Integrated Search
- HQ Catalog
- Transportation FAQs

Search

Visit Other Clusters
How to Use This Site
Shared Documents
Discussion Board
Calendar
PNT Wiki
RITA PNT Website
Useful PNT Links

What is PNT?

PNT is short for Positioning, Navigation, and Timing and refers to all technologies in space (e.g., GPS, GLONASS), terrestrial (e.g., VOR, DME) and autonomous (e.g., inertial navigation systems, clocks) that allow users to accurately determine their location as well as guide users from one location to another, based on a defined time standard.

People Sharing Research

Challenges & Capability Gaps

Gap: Physically Impeded Environments

Gap: Electromagnetically Impeded Environments

Gap: High Accuracy with Integrity

See More PNT Capability Gaps...

National PNT Architecture

A National PNT Architecture and the resulting Implementation Plan were created to provide more effective and efficient PNT capabilities focused on the 2025 timeframe with an evolutionary path for government-provided systems and services.

PNT Discussion Board: Post your Questions and Answers

PNT Shared Documents

Search the National Transportation Library Database

- NTL Integrated Search
- HQ Catalog
- Transportation FAQs

Search

Activities, Publications, and Products

Whats New!

Calendar of Events

7/25/2010 12:00 AM 2010 IEEE International Geosciences and Remote ! NEW www.igarss2010.org

7/26/2010 12:00 AM Map Asia 2010 ! NEW

7/29/2010 12:00 AM MAPPS Summer Conference ! NEW www.mapps.org

Add new event

RSS Viewer

Publications and Products

RITA PNT Website

Space-Based PNT Coordination Office Website

What is Livability?

"Transportation for livable communities" means a transportation system that works with land use to give every one multiple travel choices for meeting their daily needs affordably, safely, conveniently, and efficiently. -- Deputy Assistant Secretary for Transportation Policy, Beth Osborne

People Sharing Research

Announcements

October Livability Conference Information ! NEW — 7/26/2010 9:54 AM
by MJ Fiocco
RITA and TRB will host this conference on October 18 and 19 at the Keck Center in Washington DC. The link for registration and other information is http://guest.cvent.com/EVENTS/Info/Summary.aspx?e=eb5457c9-46c0-4143-96fd-a17bd771aa9f.

Development Schedule ! NEW — 7/26/2010 9:40 AM
by MJ Fiocco
All research cluster sites now are open to DOT researchers. DOT-funded researchers should have access in early fall, with other researchers being able to reach the sites by late fall or early winter.

Add new announcement

Shared Research

Shared Documents

Type	Name	Modified By
	Livability Presentation (3) ! NEW	MJ Fiocco

Add new document

Discussion Board: Post your Questions and Answers

Subject
What research are you doing? ! NEW

Add new discussion

Activities, Publications, and Products

Calendar of Events

7/26/2010 10:00 AM Next DOT Livability Cluster Meeting ! NEW
10/18/2010 12:00 AM Transportation for Livable Communities Conference ! NEW

Add new event

See the latest TRB Research

TRB Transportation Research Information Services (TRIS)

Transport policy implementation and outcomes : the case of Yaounde in the 1990s

Reliability-based dynamic network design with stochastic networks

Transport Survey Methods: Keeping Up with a Changing World

Data for Public Transit Planning, Marketing and Model Development: Synthesis of a Workshop

Mobile Technologies: Synthesis of a Workshop

Search the National Transportation Library Database

- (•) NTL Integrated Search
- ( ) HQ Catalog
- ( ) Transportation FAQs

Search

Click Here to See Other Research Clusters

Links

Use the Links list for links to Web pages that your team members will find interesting or useful.

New | Actions | Settings | View: All Links

Type	Edit	URL	Notes
		Research and Innovative Technology Administration	
		US Department of Transportation	
		FHWA Turner Fairbank Highway Research Center	
		BicyclingInfo.org	
		Pedistrian and Bicycle Information Center	
		WalkingInfo.org	

Click Here to See Other Research Clusters

Recent Changes

How To Use This Wiki Library Home

View All Pages

Home

Edit | History | Incoming Links

Welcome to the Infrastructure and Materials wiki library!

You can get started and add content to this page by clicking **Edit** at the top of this page, or you can learn more about wiki libraries by clicking How To Use This Wiki Library.

What is a wiki library?

Wikiwiki means quick in Hawaiian. A wiki library is a document library in which users can easily edit any page. The library grows organically by linking existing pages together or by creating links to new pages. If a user finds a link to an uncreated page, he or she can follow the link and create the page.

In business environments, a wiki library provides a low-maintenance way to record knowledge. Information that is usually traded in e-mail messages, gleaned from hallway conversations, or written on paper can instead be recorded in a wiki library, in context with similar knowledge.

Other example uses of wiki libraries include brainstorming ideas, collaborating on designs, creating an instruction guide, gathering data from the field, tracking call center knowledge, and building an encyclopedia of knowledge.

Last modified at 5/6/2010 3:18 PM by JoAnna Smith

Team Discussion

Site Actions

Visit Other Clusters

How to Use This Site

Shared Documents

Discussion Board

Calendar

Livability Wiki

Useful Links

Use the Team Discussion list to hold newsgroup-style discussions on topics relevant to your team.

New | Actions | Settings View: Subject

Subject	Created By	Replies	Last Updated
What research are you doing? ! NEW	MJ Fiocco	0	7/26/2010 9:13 AM

DOT Research Program and Project Management Site

RITA collaborating with the community to provide a central site for online coordination and collaboration tools for research project and program managers

- **DOT Research Program and Project Management (RPPM)**
  - Development of the AASHTO RAC Research Coordination and Collaboration Task Force's www.transportationresearch.org site coincided with RITA's external Sharepoint development
  - RAC RCC site migrated to www.transportationresearch.gov in May 2010
    - Content now being enhanced by a RAC RCC subcommittee
    - 5 major site areas, including team collaboration
  - Anticipated improvements before going live:
    - Adding links to/from Research Clusters sites
    - Matching Research Clusters page design
    - Hosting international team research project

The RPPM site is a great complement to the Research Clusters' topical focus

Research Program and Project Management Home
Setting the Research Agenda
Collaborating in Research Activities
Carrying Out Research
Delivering Results/Communicating Value
Team Collaboration
Netherlands-California

Welcome

This Web site allows the transportation research community (researchers and research managers) to share information and to connect and collaborate on shared issues. Over time, we envision this as a repository of documents and work products that will become a collective set of best practices for planning , conducting , managing , and implementing transportation research projects.

The richness of this site comes from document and work product contributions by the research community. You are welcome to add a link, start a discussion or post an announcement that is relevant to the topics below. If you have documents or work products related to any of the tabs, you will need an account and specific posting instructions. Please **contact us to get an account**.

Site Overview

This site is organized around four main concepts:

- **Setting the Research Agenda** - Share information about your research needs, priorities, selection processes and timelines, and learn about those of other organizations.
- **Collaborating in Research Activities** - Share and learn about tools for collaborative partnership, and ways to connect with others who share your research goals.
- **Carrying Out Research** - Share resources you use to manage your projects and programs to maximize your research investment.
- **Delivering Results/Communicating Value** - Share ways you ensure research lives beyond the project, and makes a difference in transportation practice.

Choose a tab from above to learn more and access the documents and work products.

Additional Collaboration

In addition to this site the committee has created groups within Ning and LinkedIn. Please follow the links to learn more, join to groups to become part of the broader transportation reseach community.

- Ning
- LinkedIn

Contact Us

If you or your organization would like to become involved and help set the direction of this effort, please contact **Linda Preisen**, AASHTO Research Advisory Committee (RAC)/TRB

Announcements

Title	Modified
TRB Committee on Conduct of Research September meeting Summary Posted	6/3/2010 2:44 PM

Add new announcement

Links

- About this Effort
- American Association of State Highway and Transportation Officials (AASHTO)
- AASHTO - Standing Committee on Research (SCOR) / Research Advisory Committee (RAC)
- Research and Innovative Technology Administration (RITA)
- Transportation Research Board (TRB)
- TRB Conduct of Research Committee
- Council of University Transportation Centers (CUTC)

Add new link

Research Program and Project Management Home
Setting the Research Agenda
Collaborating in Research Activities
Carrying Out Research
Delivering Results/Communicating Value
Team Collaboration
Netherlands-California

Setting the Research Agenda

Setting the Research Agenda helps researchers and research managers share their research priorities, learn about the research selection cycles of other research organizations, identify processes used to set priorities and select research, and understand the needs identified by different organizations.

Relevant documents and work products you will find here include:

- **Research Cycles and Timelines** - Who needs what by when.
- **Strategic Research Documents** - What research needs organizations have identified as a priority.
- **Research Planning Best Practices** - How research organizations set their research priorities.

Shared Documents

Type	Name
	Strategic Research Documents
	Research Planning Best Practices
	Research Cycles and Timelines
	Crash Reduction Factor Update PI
	Caltrans_SRP_Draft
	Caltrans Strategic Research Questions 2008
	Cooperative Research Program 2010 Calendars
	SettingtheResearchAgenda
	NCHRP_Synthesis_280
	National UTCs 2008

Add new document

Links

There are currently no favorite links to display. To add a new link, click "Add new link" below.

Add new link

Recent Discussion Topics

Subject

There are no items to show in this view of the "Recent Discussion Topics" discussion board. To create a new item, click "Add new discussion" below.

Add new discussion

What's New

Title	Expires
Cooperative Research Program 2010 Calendars	12/2/2009
Preliminary Investigation: Crash Reduction Factor Update	3/20/2009
Seven Keys to Building a Robust Research	
Conduct of Research Committee Midyear Meeting June 16-17, 2009 Washington DC	
National Academies Releases On Being a Scientist	

Add new announcement

Transportation Research > DOT Research Clusters > Positioning, Navigation & Timing

Shared Documents

Share a document with the team by adding it to this document library.

Click Here to See Other Research Clusters
PNT Research Cluster
Calendar
Discussion Board
External Links
All Site Documents
Shared Documents
Site Administration Documents
Contribute to the PNT Wiki
History of the Site
Expectations of Users
DOT Privacy and PII Policies
How to Use and Edit This Site
Questions - Contact Us
RITA PNT Website
Draft Prototype Main Page
Collaboration Subsite 01
Collaboration Subsite 02

New | Upload | Actions | Settings | View: Default Limit 100

Type	Name	Modified	Modified By
	Site Graphics	5/19/2010 11:04 AM	Elliott Baskerville
	Editing	7/1/2010 12:23 PM	Elliott Baskerville
	PNT Challenges	6/29/2010 12:23 PM	Elliott Baskerville
	Multiple Phenom Implementation Tasks	6/29/2010 4:52 PM	Elliott Baskerville
	Capability Gaps	6/29/2010 5:31 PM	Elliott Baskerville
	Physically Impeded Environments	6/29/2010 6:23 PM	Elliott Baskerville
	Electromagnetically Impeded Envoronments	7/1/2010 10:51 AM	Elliott Baskerville
	Geospatial Information	7/1/2010 11:32 AM	Elliott Baskerville
	High Accuracy With Integrity	7/1/2010 11:56 AM	Elliott Baskerville
	Timely Notification	7/1/2010 11:59 AM	Elliott Baskerville
	High Altitude	7/1/2010 12:03 PM	Elliott Baskerville
	Modeling Capabilities	7/1/2010 12:11 PM	Elliott Baskerville
	Interchangeable Solutions Implementation Tasks	7/1/2010 2:01 PM	Elliott Baskerville
	Synergy of PNT Implementation Tasks	7/1/2010 2:08 PM	Elliott Baskerville
	Cooperative Structures Implementation Tasks	7/1/2010 2:09 PM	Elliott Baskerville
	Mult Phenom Road Map	7/2/2010 12:44 PM	Elliott Baskerville
	Cooperative Organizational Structures	7/6/2010 1:30 PM	Elliott Baskerville
	Interchangeable Solutions	7/6/2010 1:30 PM	Elliott Baskerville
	Mutiple Phenomonologies for PNT	7/6/2010 1:30 PM	Elliott Baskerville
	Synergy PNT and Communications	7/6/2010 1:30 PM	Elliott Baskerville
	Inter_Solutions_Roadmap	7/6/2010 1:38 PM	Elliott Baskerville
	Synergy_Comm_roadmap	7/6/2010 1:42 PM	Elliott Baskerville
	Coop_Structure_Roadmap	7/6/2010 1:44 PM	Elliott Baskerville
	Questions Contact Us	7/9/2010 3:34 PM	Elliott Baskerville
	PNT Main Page Prototype	7/14/2010 10:06 AM	Elliott Baskerville
	PNT Main Page Prototype 02	7/14/2010 10:10 AM	Elliott Baskerville

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