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<th>Time</th>
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<td>Monday 10:15 AM-12:00 PM</td>
<td><strong>Lectern Session 1159</strong></td>
<td>Improving Findability of Transportation Agency Information</td>
<td>Jezmynnne Arroway, Idaho Transportation Department, presiding Lectern Administration and Management, Data and Information Technology, Education and Training</td>
<td>AB010T ABC20 ABG40 ABJ20</td>
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<td>Monday 1:30 PM-3:15 PM</td>
<td><strong>Poster Session 1275</strong></td>
<td>Sweet Sixteen: State DOT High Value Research Projects</td>
<td>Anne Freeman, Washington State Department of Transportation, presiding Cynthia Smith, Mississippi Department of Transportation, presiding Poster Bridges and Other Structures, Pavements, Pedestrians and Bicyclists</td>
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<td>Monday 3:45 PM-5:30 PM</td>
<td><strong>Lectern Session 1286</strong></td>
<td>How Smart Cities Manage Knowledge</td>
<td>Alexander Linthicum, OST-R/Volpe Center, presiding Lectern Administration and Management, Data and Information Technology, Education and Training</td>
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<td>Monday 6:00 PM-7:30 PM</td>
<td>Thomas B. Deen Distinguished Lecture and Presentation of Awards</td>
<td>K. B. Woods Award (Design and Construction): Xin Xu, Chenxi Yuan, Yuxi Zhang, Hubo Cai, Dulcy M. Abraham, and Mark D. Bowman, Purdue University: Ontology-Based Knowledge Management System for Digital Highway Construction Inspection</td>
<td>Transportation Research Record: Journal of the Transportation Research Board, Volume 2673, Issue</td>
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<td>Tuesday 1:30 PM-3:15 PM</td>
<td><strong>Lectern Session 1511</strong></td>
<td>Autonomous Vehicle and Unmanned Aerial Systems Education and Training: The Future Is Now</td>
<td>Victoria Beale, Ohio Department of Transportation, presiding Diana Long, Appalachian Transportation Institute, presiding Lectern Aviation, Education and Training</td>
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<td>Wednesday 8:00 AM-9:45 AM</td>
<td><strong>Lectern Session 1661</strong></td>
<td>The Future of Workforce Development Through Practice Ready Examples</td>
<td>Victoria Beale, Ohio Department of Transportation, presiding Diana Long, Appalachian Transportation Institute, presiding Lectern Education and Training</td>
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<td>Wednesday 8:00 AM-12:00 PM</td>
<td>Knowledge Management Task Force</td>
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<td>Frances Harrison, Spy Pond Partners, LLC, presiding Alexander Linthicum, OST-R/Volpe Center, presiding Administration and Management, Data and Information Technology, Education and Training</td>
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Lectern Session 1159

Improving Findability of Transportation Agency Information

Event Description

How much time do people in your organization spend looking for information? What is the impact on productivity? Finding information often frustrates employees and slows progress. We want the retail experience that helps us navigate to the item we’re looking for. In this session we’ll cover basic methods for improving information findability, and present case studies from the private sector and several DOTs. Test your wayfinding skills and find this session.

Jezmynne Arroway, Idaho Transportation Department, presiding

Findability 101: Learning from Exemplars
Ralph Poole, Iknow, LLC

This presentation covers the basics of making information findable - from understanding user information needs and search patterns through configuring search tools. Examples of successful implementation of these techniques will be included.

Making DOT Content Findable: Working Behind the Scenes
Frances Harrison, Spy Pond Partners, LLC

As part of NCHRP Project 20-97: Improving Findability and Relevance of Transportation Information, pilots were conducted at three state DOTs. The pilots tested automated document classification and metadata extraction using rule-based and machine learning techniques. This presentation highlights practical methods that DOT can apply to make their content more findable.

Manual Modernization Pilot
Leni Oman, Washington State Department of Transportation

WSDOT recently developed a pilot web site that brings together eight engineering manuals and provides an easy way to search and navigate across the manuals to topics of interest. Search and navigation is enhanced through an integrated glossary of terms and a carefully designed set of topical filters. This presentation covers the inspiration for developing this site, the process that was followed and what was learned.
Lectern Session 1286
How Smart Cities Manage Knowledge

Event Description
Smart cities attempt to modernize delivery of public services, management of public assets, and enhancement of public safety by adopting cutting-edge technology, data analytics, communications, and problem-solving techniques. Beyond technology adoption, public agencies’ and their partners’ ability to aggregate knowledge from experience, and to learn from one another under complex and uncertain conditions may be a key determinant of which cities successfully transform themselves. This session features smart cities researchers and practitioners who will share their experiences applying knowledge management within the complex and time-sensitive environments of smart cities.

Alex Linthicum, OST-R/Volpe Center, presiding

Knowledge Management for Change and Uncertainty
Kristie Chin, University of Texas, Austin

Transportation is at a pivotal moment - where the rates of population growth, changing infrastructure needs, and technological advancement are challenging government's ability to provide quality mobility services. Having outpaced its 20th century systems, Texas recognized the paradigm shift in transportation and sought to develop a new model of partnership that would usher in the next generation of mobility solutions. The Texas Innovation Alliance represents an entrepreneurial approach to collaboration and knowledge management. Recognizing that individually communities have limited capacity, nine regional teams have joined forces in order to leverage the collective talent, resources, and expertise across the state. In addition, the Alliance partnered with a national non-profit, the Smart Cities Lab, to launch four communities of practice as peer-to-peer learning networks in the areas of: 1) Equity and Access, 2) Seamless Mobility, 3) Energy & Sustainability, and 4) Real-Time Data. The Alliance has also developed an Automated Vehicle Field Guide that synthesizes the lessons learned and best practices from current Texas pilots and charts a course for future deployments. Overall the Alliance has developed a partnership network and knowledge management tools that have enabled Texas to be nimble in the wake of technological, economic, and societal change.

Smart Lessons-learned for Knowledge Management, Collaboration, and Transfer for Regional Multi-Jurisdiction Smart Networks: City of Detroit and Macomb County Experience
Tony Geara, City of Detroit Department of Public Works
Oladayo Akinyemi, City of Detroit Department of Public Works
John Abraham, Macomb County Department of Roads

Over the last few years, the City of Detroit, with partner agencies and municipalities, has been making headlines as the “Rebound City of the USA”. The City of Detroit and the Macomb County Department of Roads (MCDR) along with a number of other stakeholder agencies have used knowledge management techniques in order to address the issues of keeping up with ever-changing smart city technology, keeping shared information up-to-date and accurate, interpreting data effectively, and determining knowledge management responsibility. This presentation reviews the knowledge management approaches the City of Detroit and its stakeholders have instituted, including periodical review of standard operating procedures (SOP); multi-point staffing for key positions; development of an access-controlled central asset database system; organizational training and knowledge bank maintenance; and others. We highlight the contribution of inter-agency knowledge management in achieving our smart city innovations and look to inspire you with lessons-learned from both our successes and failures.

The Application of Knowledge Management in Tampa’s Smart City Program
Vik Bhide, City of Tampa
The City of Tampa is engaged in a focused smart cities program and is among the thought leaders in the application of advanced technologies to urban areas in the USA. This presentation will examine the use of knowledge management techniques to extract maximum value from smart city initiatives, namely:

- Smart Cities Alliance for knowledge transfer and information sharing based on shared priorities
- Smart Mobility lab at USF CUTR (CV data, traffic cabinet, cybersecurity joint projects)
- MetroLab network – Tampa and USF jointly are part of MetroLab network, coalition of City-University partners from around the world focused on Smart Cities
- Inter-agency knowledge sharing through brown-bag lunches and webinars
- Regional transportation data platform (led by MPO, prioritized by Tampa Bay Smart Cities Alliance)