TSMO: What it is and How it Impacts our Future Technology Workforce
Purpose:
To share the TSMO Council’s goals and to gain nationwide volunteers to join and contribute to the Executive Committee’s focus areas.

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ITE Transportation Systems Management & Operations Council

2019 Focus Areas
- Smart Communities
- Connected and Autonomous Vehicles
- Urban Goods Movement
- Outreach & Work Force Development
Past (challenges)

TSMO (Evolving)

Future

What is TSMO?
Transportation Systems Management and Operations
What is TSMO?

• “Those who don’t know history are doomed to repeat it.”
What is TSMO?
“We cannot build our way out of congestion”

• “Study after study about what causes traffic jams shows that it is a fallacy to believe that if you add more highway capacity, you get more throughput – in reality, the opposite happens.”

• Jim Hackett, CEO of Ford Mobility Company, Freakanomics Podcast Ep. 357
Past (challenges)
TSMO (Evolving)

- Work Zone Management
- Traffic Incident Management
- Service Patrols
- Special Event Management
- Road Weather Management
- Transit Management
- Freight Management
- Connected & Automated Vehicle Deployment
- Traffic Signal Coordination
- Traveler Information
- Ramp Management
- Managed Lanes
- Active Traffic Management
- Integrated Corridor Management
- Access Management
- Improved Bicycle & Pedestrian Crossings

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Future

The Internet of Everything

Data Management

- Architecture
- Database Systems
- Master Data and Metadata Management
- Governance
- Transformation
- Warehousing
- Integration Definition
- Quality Control

Source: TM Forum, 2016

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So What Does our Future Transportation Technology Workforce Look Like?
Develop your Career: 
Listen to ITE Podcasts

• Smart Communities Series
  • Vik Bhide (Tampa, FL)
  • Karina Ricks (Pittsburgh, PA)
  • Peter Koonce (Portland, OR)
  • Jim Dale (Austin, TX)
  • Erin Toop & Howaida Hassan (Edmonton, AB, Canada)
  • Betsy Price (Fort Worth, TX)
Develop your Career:
Check out “ITE Quick BITEs”

• Everything But the Data
• All About the Data
• More than Big Cities
• Social Equity
• Public Health
• Forming Start Teams
• Shared Mobility
• How Does a Community Become “Smart”
Develop your Career: ITE Community

- Online Community Page
- Discussions
- Blog Posts
- Resources
- Member Engagement
Develop your Career: Attend 2019 ITE Annual Meeting

• Submit an Abstract!

And while you’re there:

• Attend the ITE TSMO Council Meeting to connect with Leadership
Develop your Career: Student Competitions

- TRB ePortfolio competition
  - Travel to DC in January
  - Opportunity to meet one-on-one with TSMO leaders

- ITSPCB/NOCoE/ITE Transportation Tech Tournament
  - Free travel to ITE meeting (Austin, TX in 2019
  - Compete in Shark Tank 6-minute pitch
Develop your Career: Get Involved Now – and Later!

• Follow TSMO Hashtags:
  • #TSMO, #V2I, #SmartCommunities, #SelfDrivingCars
  • @NOCoEOps
  • https://ops.fhwa.dot.gov/plan4ops/focus_areas/integrating/transporartion_sys.htm

• Participate in the upcoming NOCoE contests: https://transportationops.org/transportation-technology-tournament

• Register for the newsletter for updated information: https://www.transportationops.org/newsletter
Thanks!

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