TSMO:

What it is and How it Impacts our Future Technology Workforce

A Community of Transportation Professionals

ITE Transportation Systems Management & Operations Council

Purpose:

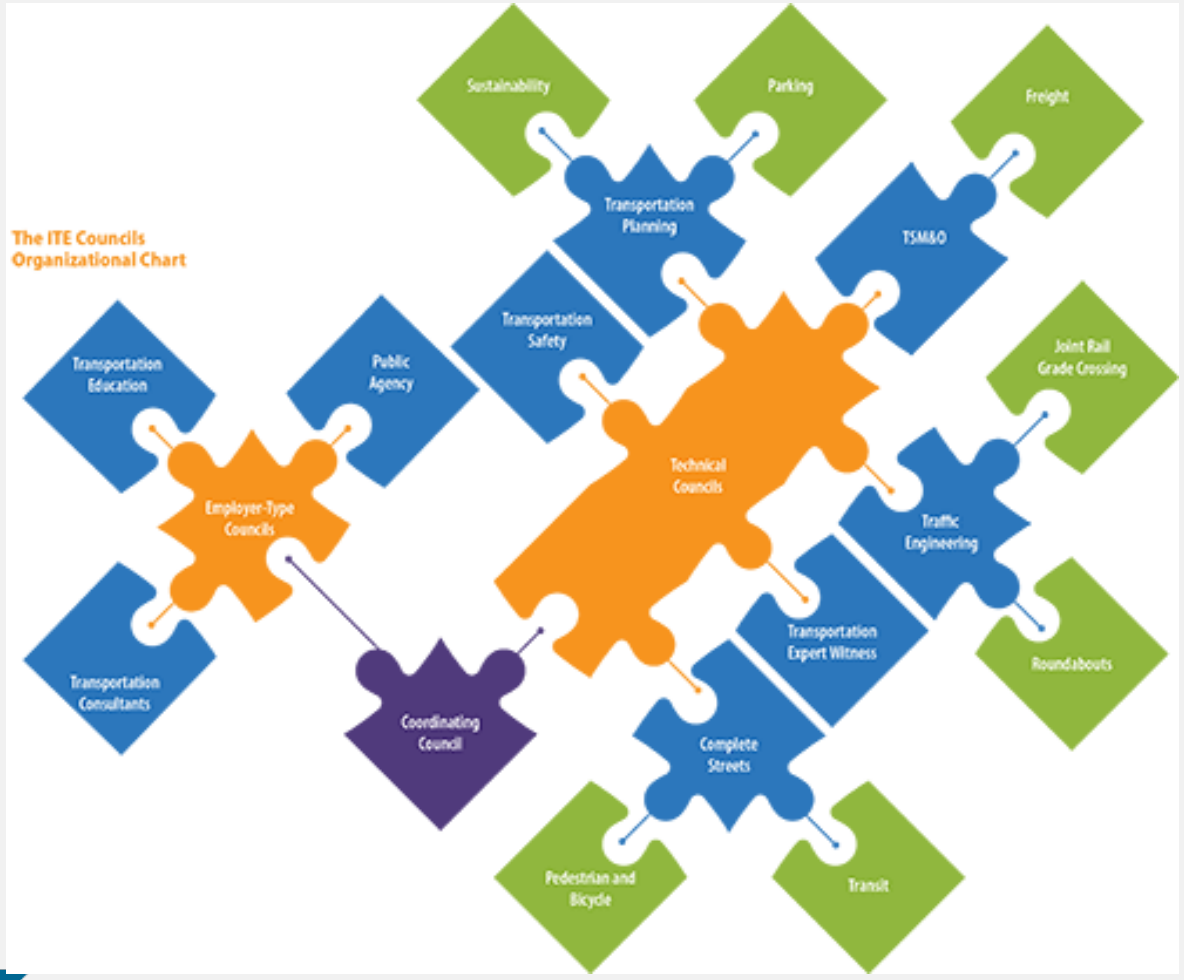
To share the TSMO Council's goals and to gain nationwide volunteers to join and contribute to the Executive Committee's focus areas.

- Kris Milster
  Traffic Technology Services
  Council Chair

- Yang Tao
  City of Madison, WI
  Council Vice-Chair

- Anthony Castellone
  Pennoni & Associates
  Council Secretary

ITE Transportation Systems Management & Operations Council



2019 Focus Areas

- Smart Communities
- Connected and Autonomous Vehicles
- Urban Goods Movement
- Outreach & Work Force Development

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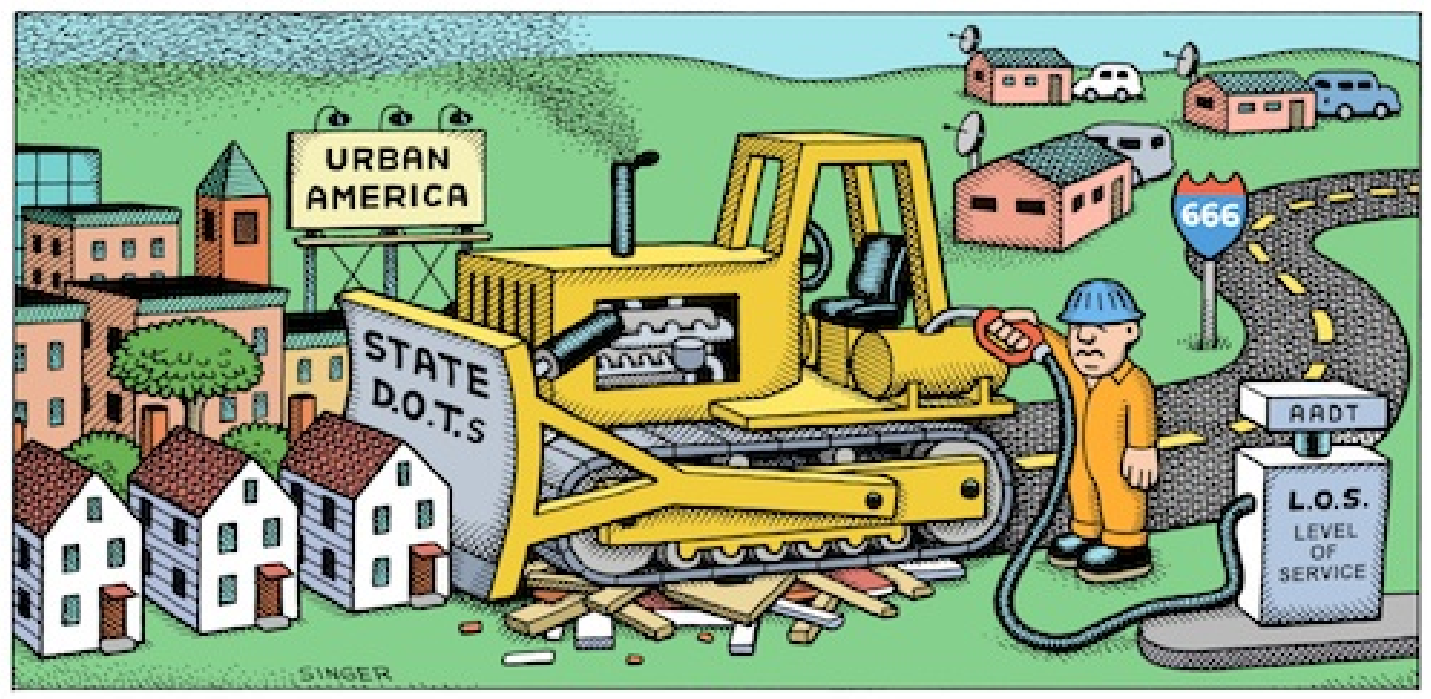
Past (challenges) → TSMO (Evolving) → Future

What is TSMO?

Transportation Systems Management and Operations

What is TSMO?

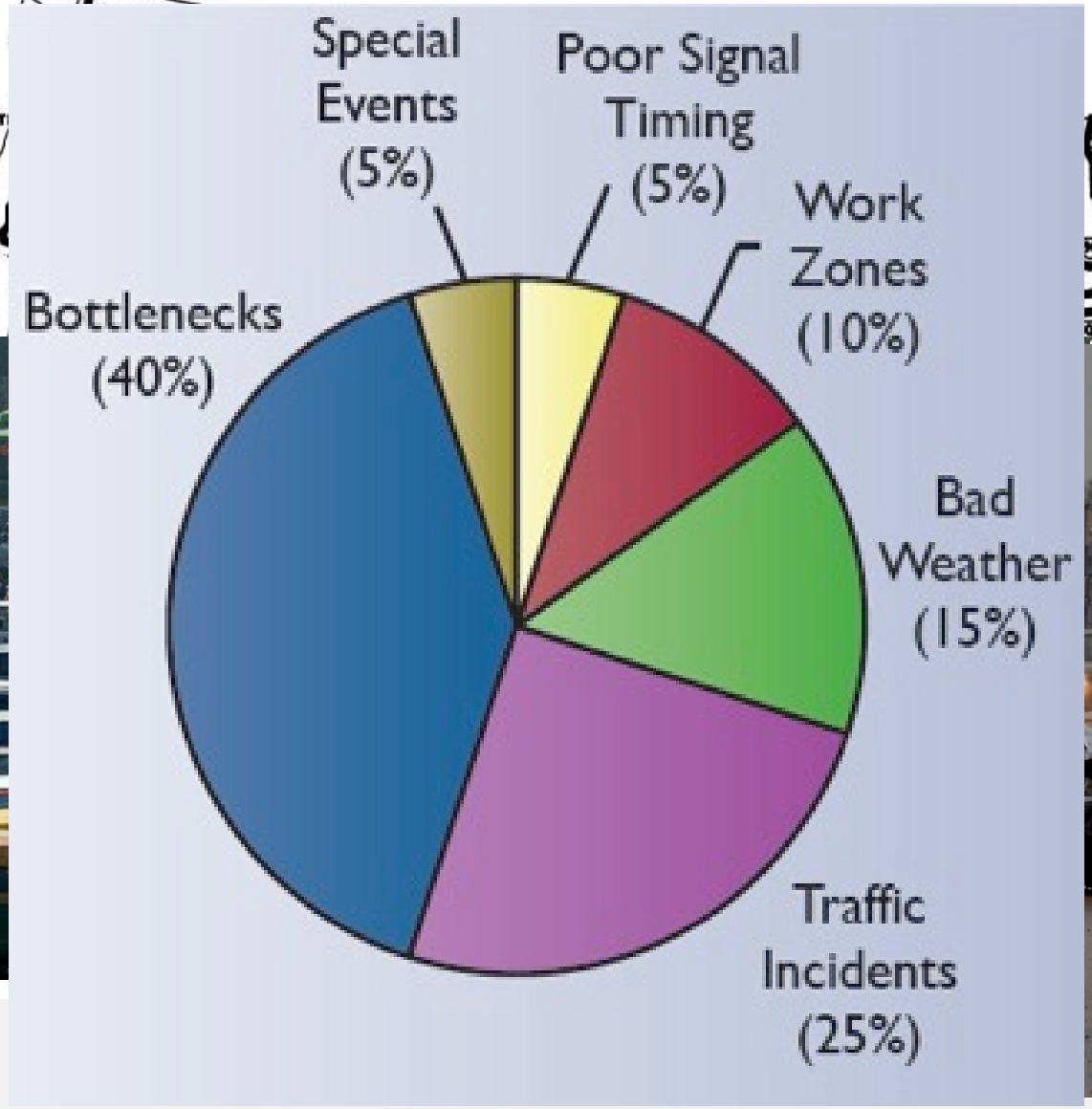
- *"Those who don't know history are [doomed] to repeat it."*

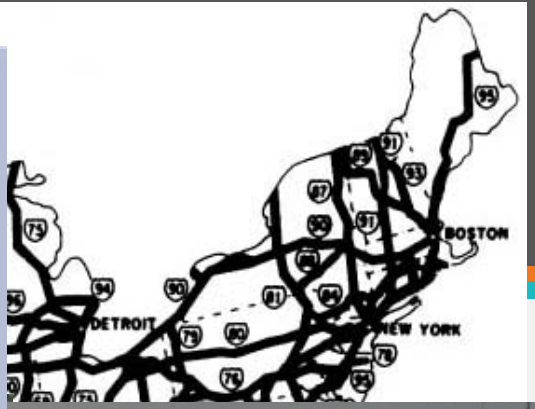


What is TSMO?
"We cannot build our way out of congestion"

- "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*

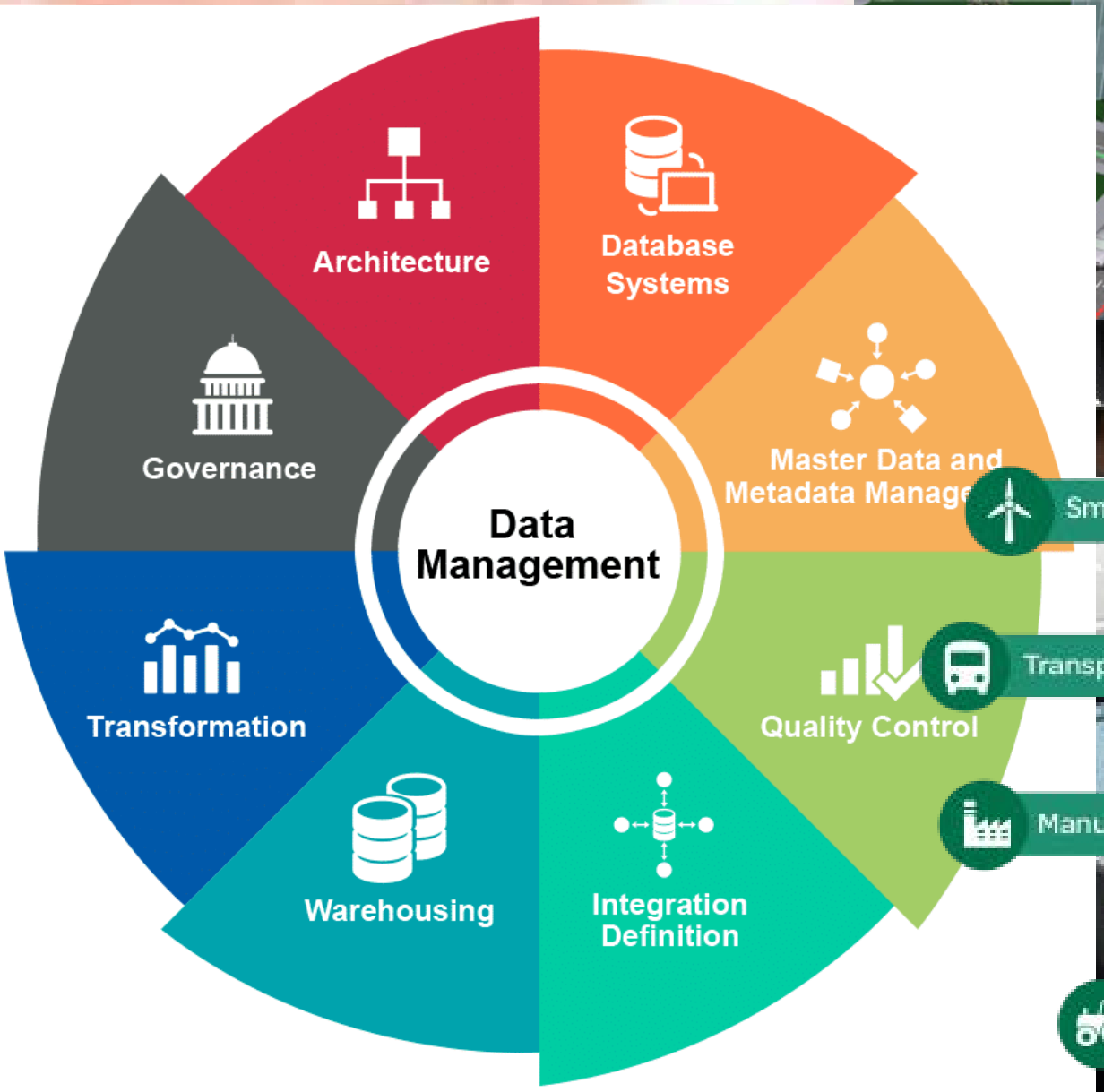
Past (challenges)

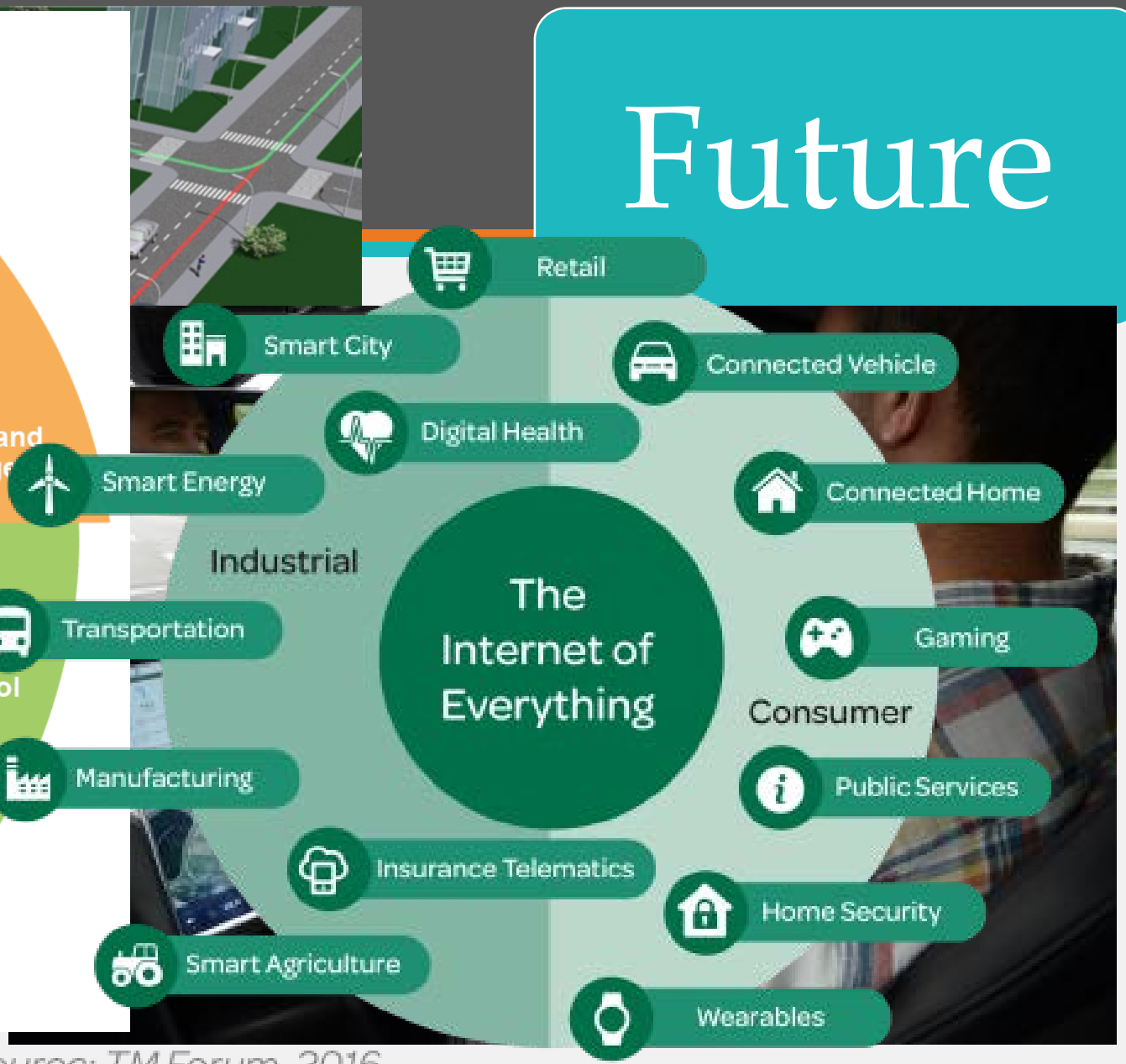




TSMO (Evolving)

Future

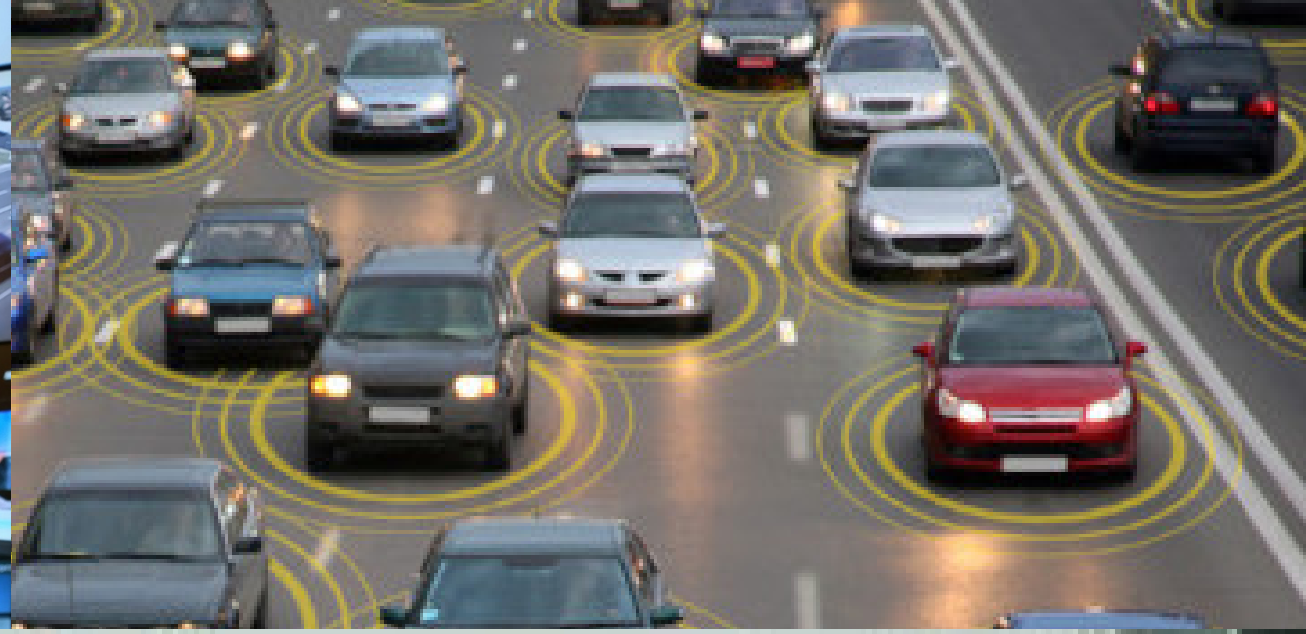




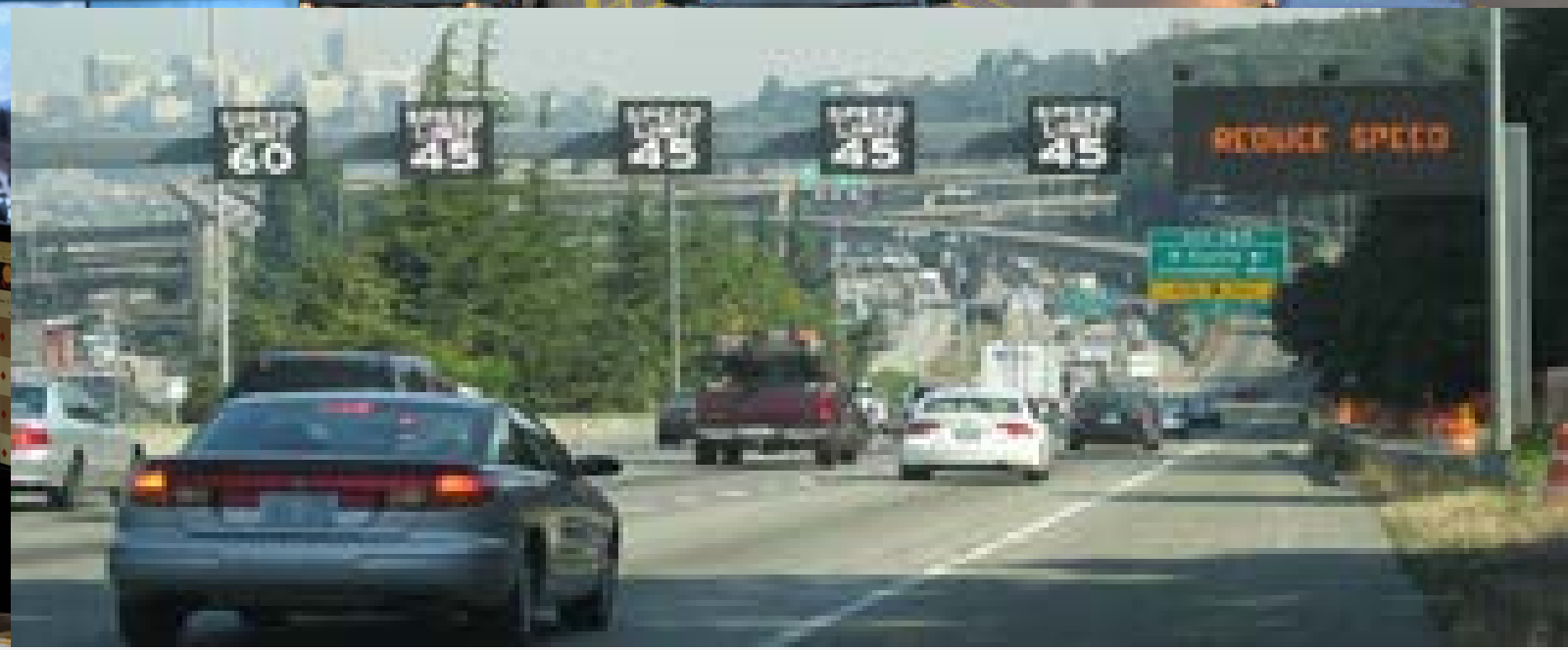
Source: TM Forum, 2016

LEFT
HOV LANE
95 NORTH
EXIT ONLY
HOV LANE
15 NORTH
ENDS
½ MILE
LAKE MEAD BLVD 14
CRAIG RD 18
US-95 ANN RD 25
CONSTRUCTION AHEAD
SLOW DOWN
SPEED LIMIT 65
SPEED LIMIT 65
WORLD MARKET CENTER
So What Does our Future Transportation Technology Workforce Look Like?
NOTE: For illustration purposes only. All information is preliminary and subject to change.

ARIS
ADOT
ARIS



ARIS
AZTech Regional Information System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REDUCE SPEED

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"

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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/transportation_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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