

Keeping Up with the Rapid Evolution of New Mobility

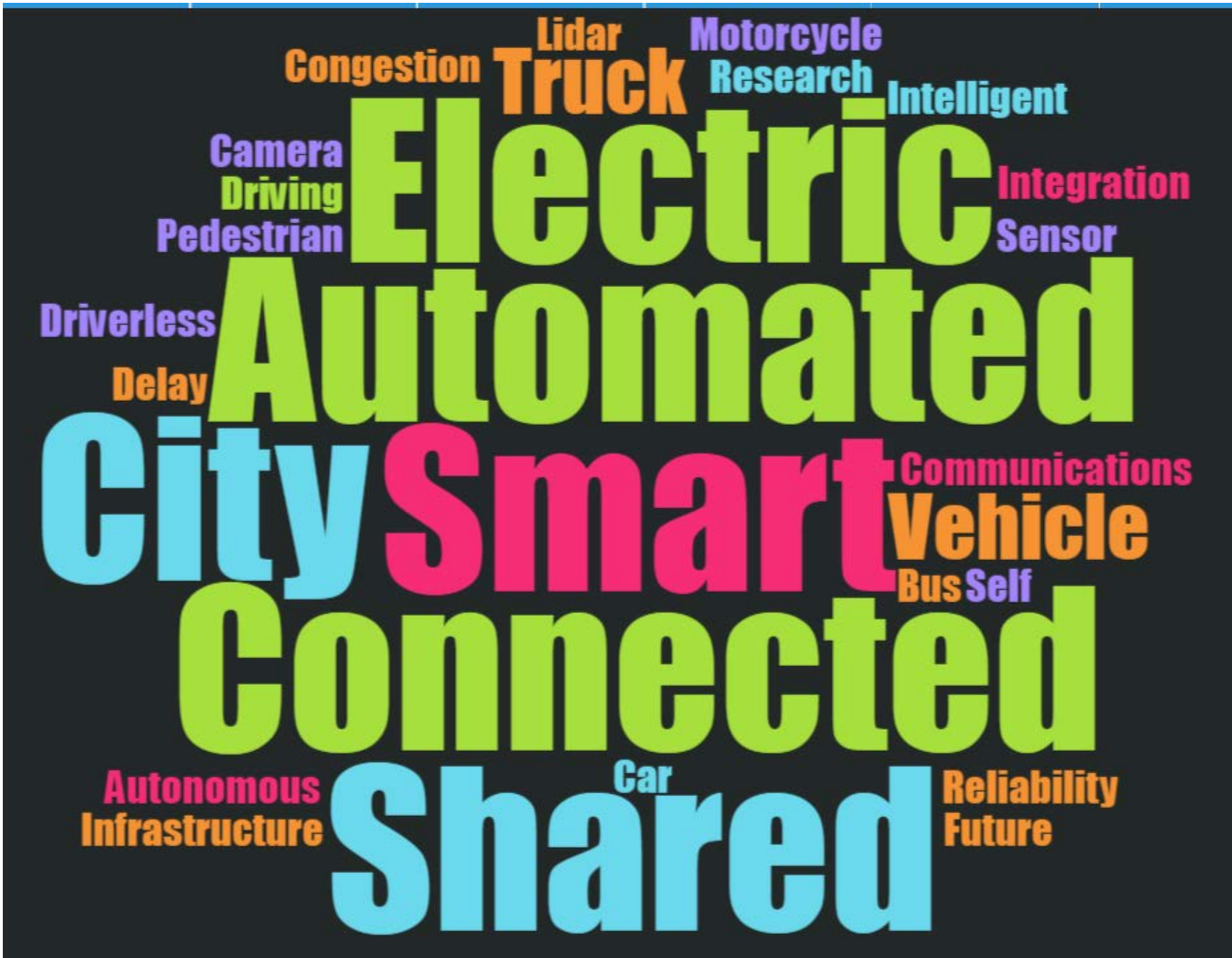
National Rural ITS Meeting

October 2018





Dominating the Headlines



Change is Inevitable...

- New technology in vehicles and carry-on/mobile
- Attitude shifts regarding driving, car ownership, ride sharing, car sharing: new mobility
- Changes impacting Suburban and Rural communities as well
- Rapid evolution of computing & telecommunications technology



Bloomberg Businessweek

November 2 – November 8, 2015



Keys to Managing Change

1. Dialogue
2. Pilot Test
3. Document

Examples in Action....DIALOGUE

- Multi -Agency Working Groups
- A number of agencies have formed multi - disciplinary working groups to explore the future of CAV
- Some have created strategic plans, others have facilitated a process for companies that wish to test AVs on their roadways
- Federal Grant requests and unique programs (like Smart City Challenge) have helped push these working groups by giving them targets of opportunity



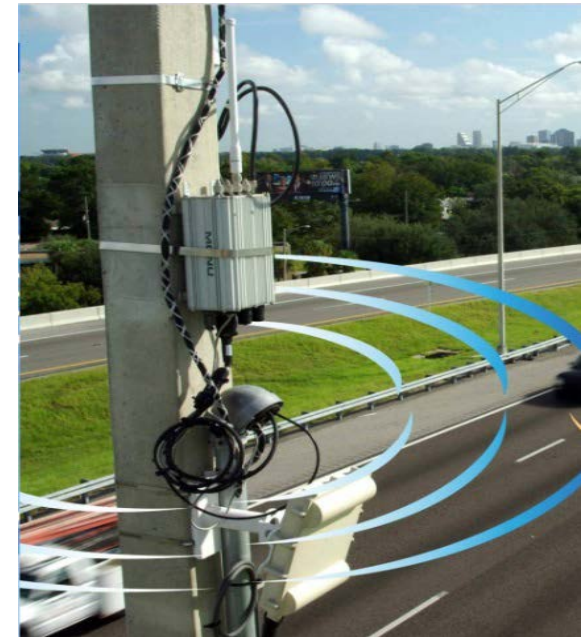
Examples in Action....PILOT TESTING

- Traffic Signal Data Sharing
- A number of municipal and county agencies are now sharing traffic signal data with one of several new companies that have approached them.
- The general preference is for the vendors to access the data at a centralized location to access more intersections at once.
- Third party vendors are sharing data with applications and vehicle manufacturers



Examples in Action....PILOT TESTING

- National SPaT Challenge
- Challenge state and local public sector transportation Infrastructure Owners & Operators (IO&Os) to **deploy DSRC infrastructure with SPaT broadcasts** in at least one coordinated corridor or network (approximately 20 signalized intersections) in each state by January 2020.
- Will better prepare each agency for future, more complex V2I deployments
- Message of commitment to automakers



Examples in Action....DOCUMENT

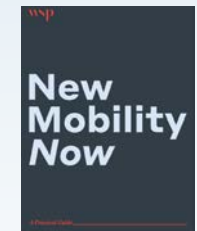


- US DOT publications from CV Pilots
- Strategic Plans from agencies
- Leveraging TSM&O plans for CAV planning and documentation
- Publishing best practices – SPaT Challenge, NOCoE website
- CAT Coalition white papers

New Mobility Now - A Practical Guide

- What is really changing?
- Long term visions
- Next steps
- Action plans

- International
- Authored by practitioners
- Informed by best practice



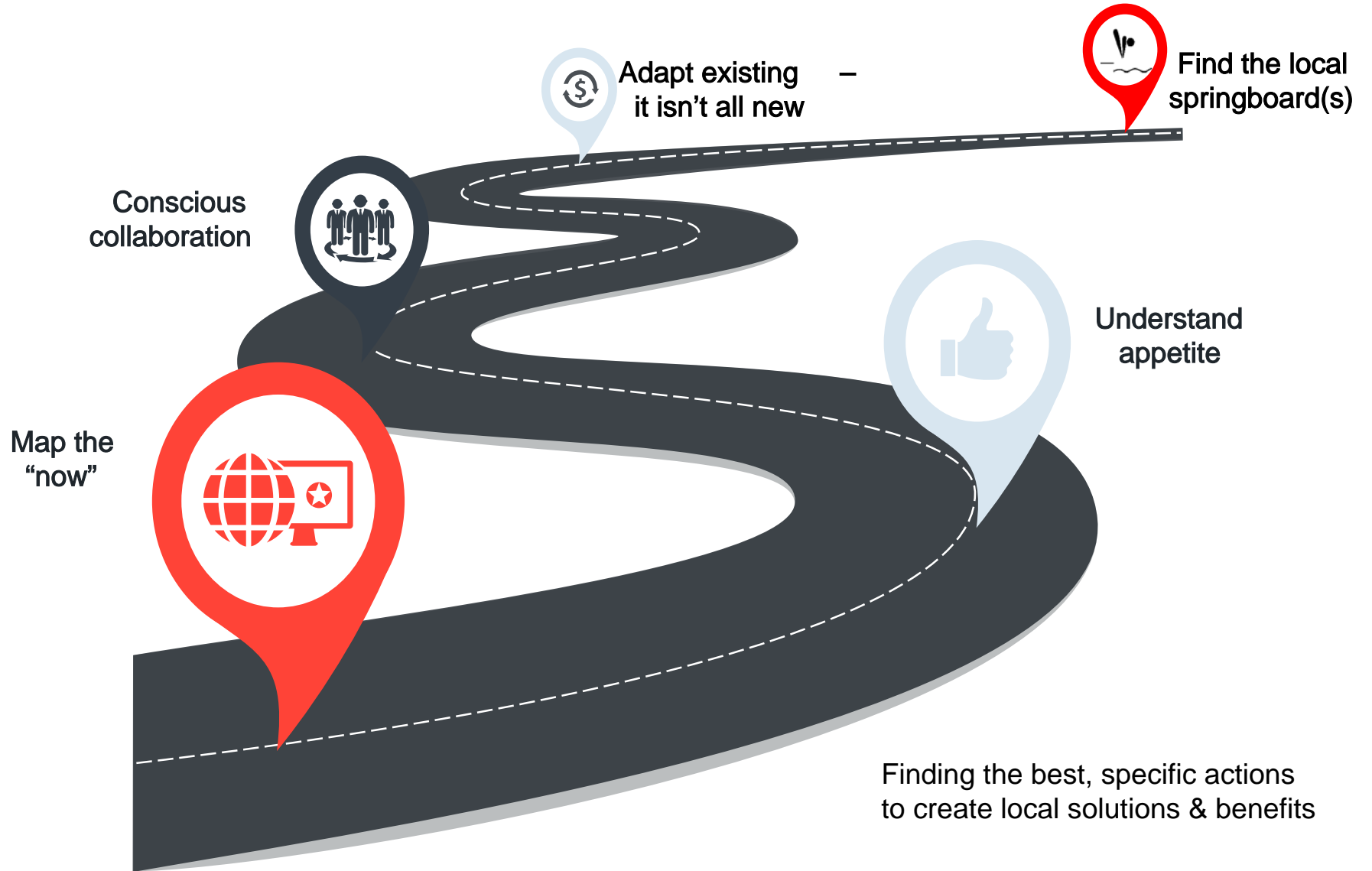
Challenges to being 'Future Ready'

- **Why** think about change?
- **What** might change, how fast, and **when**, realistically?
- **What** do we really need to be worried about?
- **Why** are they applicable and **what** are the risks?
- **Where** could emerging solutions deliver benefits?

- **How** can we improve our services?
- **How** can we improve our networks and their operation?
- **How** can we improve the customer experience?
- **How** can we improve our housing, buildings and places?
- **How** can we rebalance space for people and vehicles?



Taking The Best Steps





Build on TSM&O Philosophy...

- ✓ Establish baseline/conduct self -assessment
- ✓ Understand motivation
- ✓ Establish clear definitions
- ✓ Identify champions/resources needed
- ✓ Engage key stakeholders
- ✓ Consider external forces

- ✓ Analyze and evaluate performance

Steve's Lessons: Don't Be Intimidated by the Unknown

- Public Sector: One size cannot fit all. Each town, city and country has a different start -point and context. The details of legal, political, economic, technological, environmental, social and ethical considerations matter, and will affect what is possible and desirable.
- Private Sector: We should embrace the inevitable variability in capability and maturity levels of different state, county, and municipal DOT's when it comes to connected & automated vehicles.

Steve's Lessons: Accept the Inevitable

A graduated approach occasionally helps avoid the problem of the over-prescribing policy, design, and operations.

“When faced with great uncertainty, it is almost impossible to get it right the first time.”

- *Dr. Nidhi Kalra, Senior Information Scientist,
Rand Corporation*



Takeaways



- ✓ **DIALOGUE:** Some agencies are further ahead of others – mentor each other
- ✓ **PILOT TEST:** Don't let the unknowns and complexities paralyze us
- ✓ **DOCUMENT:** While still many unknowns, we need to start factoring CAVs into all of our daily processes and future plans

Ready – Fire - Aim



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