

The Future of Transportation:

Can You See Around the Corner?

Shelley Row, P.E., PTOE

Shelley Row Associates LLC www.shelleyrow.com @shelleyrow

Trends





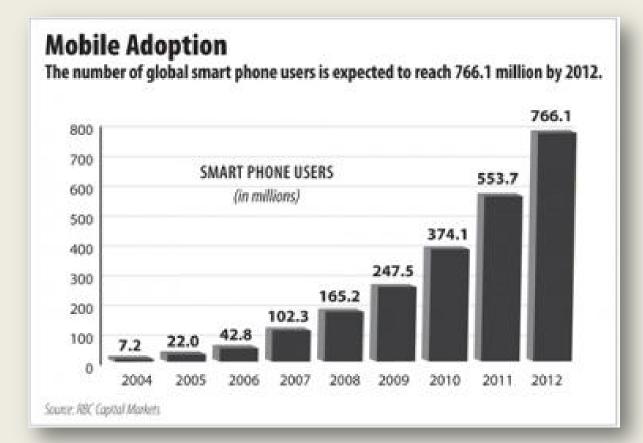


Think. Feel. Act.

Trends

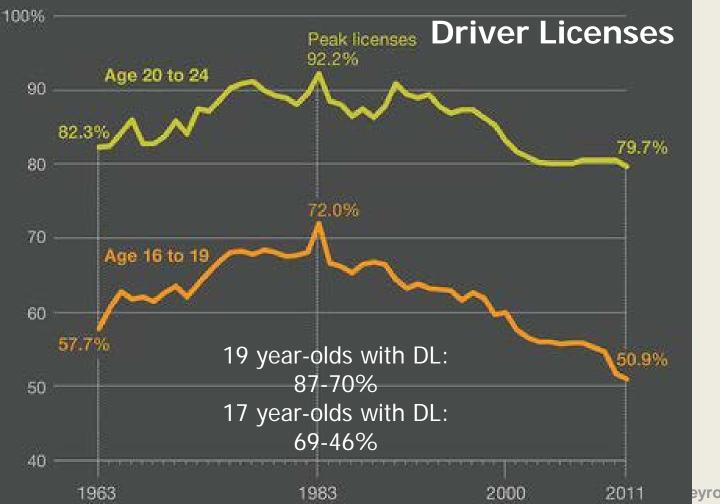
Consolidated information

Personalized information





Think. Feel. Act.





eyrow.com

Transportation Trends

Transportation as a Service



Transportation Trends Transportation as a Service



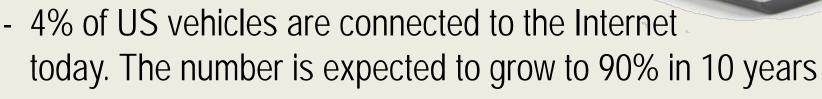


- Bundled service
- Hertz, electric car, carpool, transit, bike, taxi
- 20% cheaper than ownership
- Subcription service



Transportation Trends Cars as computing platforms

- GM will install 4G LTE on all new model cars in 2015



Computerworld

- Global connected vehicle market will be \$25.2B in 2014

Visiongain

Transportation Trends Connected Vehicles - Cellular

Cell-based cancer scate cape from the battle here now!









Transportation Trends Connected Vehicles - Cellular

What's the app for that?









Transportation Trends Connected Vehicles - Cellular













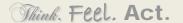


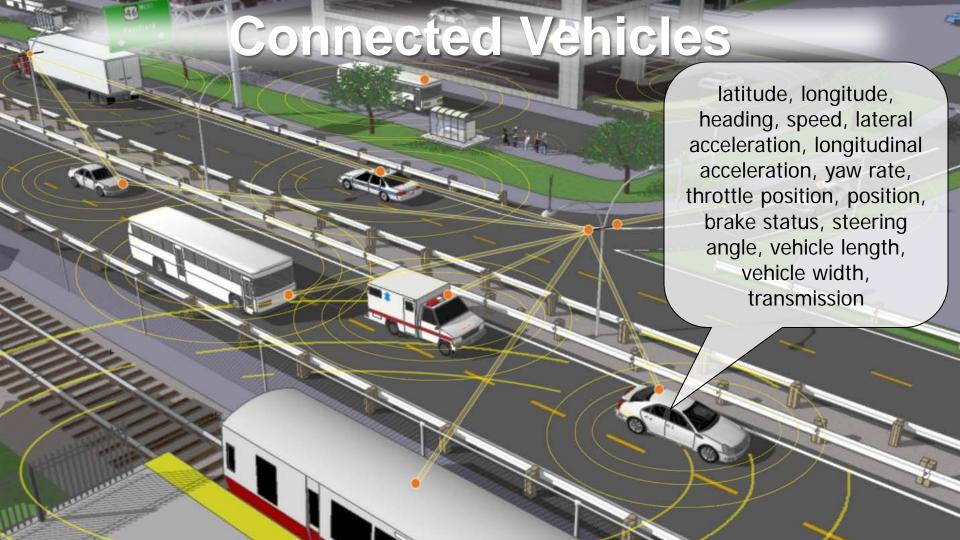












Connected Vehicles DSRC: The Momentum

• **GM**

- DSRC on 2017 Cadillac CTS
- GM, MDOT, Umich installing
 V2I corridors
- Aftermarket
- Regulation



Connected Vehicles DSRC: The Risks

- Security system
- Spectrum
- Slow





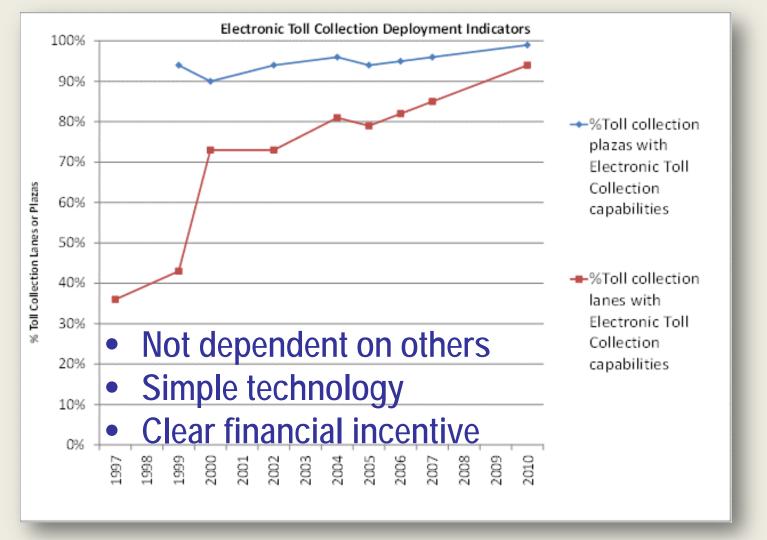
Transportation Trends Connected Vehicles - DSRC

NHTSA Timeline:

- NHTSA decision to initiate regulatory action – Feb 2014
- ANPRM released August 2014

- More research thru 2016
- NPRM 2016
- Final Rule 2017? With a phase-in period

Evaluation	Regulatory Development	Fleet Penetration
2013	2014-2017	2020-2057



Connected Vehicles What Does it Mean to Me?

- Dependent on others
- Complex technology
- Unclear financial incentive





Connected Vehicles What Does it Mean to Me?

- Know the data you need;
- Share your data;







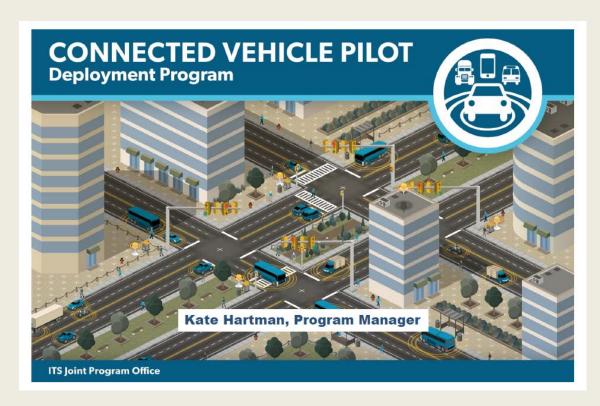
www.shellevrow.com



USDOT ITS Joint Program Office

Watch for webinars, workshops & website

Wave 1 release in Fall 2015





Think. Feel. Act.

Connected Vehicles What Does it Mean to Me?

Investment decisions – "Flexibility"

- Big Investments that capture data
- VMS, HAR, 511
- Long-term agreements
- Large-scale investments







The Future of Transportation:

Be on the look out for what's around the corner

Shelley Row Associates LLC www.shelleyrow.com @shelleyrow