

AMS Forum on
Observing the Environment from the Ground Up

Intelligent Transportation: The Next Revolution

March 9, 2016

Ariel Gold
Data Program Manager
ariel.gold@dot.gov
Intelligent Transportation System Joint Program Office
(ITS JPO)
U.S. Department of Transportation (USDOT)

The Next Revolution

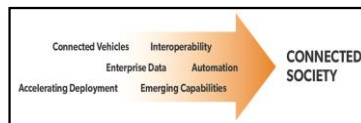
Technology convergence will revolutionize transportation, dramatically improving safety and mobility while reducing costs and environmental impacts



- Connected Vehicles
 - Vehicle Automation
 - Internet of Things
 - Machine Learning
 - Big Data
 - Cloud Computing
 - Mobile
 - Sharing Economy
 - Smart Cities
- ➔
- Order of magnitude safety improvements
 - Reduced congestion
 - Reduced emissions and fossil fuels
 - Improved access to jobs and services
 - Reduced transportation costs for government and users
 - Improved accessibility and mobility

ITS JPO Vision and Mission

VISION
Transform the Way Society Moves



MISSION
Conduct research, development, and education activities to facilitate the adoption of information and communication technology to enable society to move more safely and efficiently.

Learn more at: <http://www.its.dot.gov/strategicplan/>

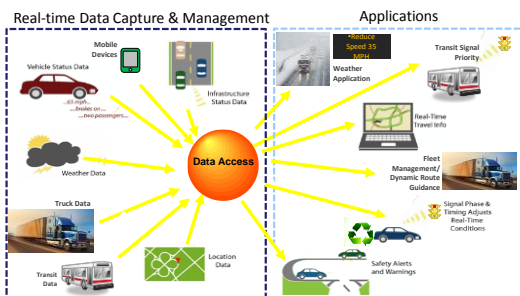
A Data Explosion

As part of the Safety Pilot Model Deployment in Ann Arbor, MI, 2,836 vehicles generate Basic Safety Messages (BSMs) on 73 miles of freeways and arterials (approx. 2% of vehicles)



	October 2012	April 2013
Unique vehicles	1,626	2,069
BSMs generated	1.3 Billion	2.7 Billion
Data generated	96 GB	197 GB

Research to Operations



Get research data at: <https://www.its-rde.net/>

Beyond Transportation

Learn more at:

- <https://data-alliance.noaa.gov/>
- <https://cbiit.nci.nih.gov/ncip/nci-cancer-genomics-cloud-pilots>



Thank You!

March 9, 2016

Ariel Gold
Data Program Manager
ariel.gold@dot.gov
<http://www.its.dot.gov>
<https://www.its-rde.net/>