Data is a Girl’s (and city’s) Best Friend

Urbanism Next

May 2019
25 GB uploaded to cloud every hour by connected vehicles (Quartz/Hitachi)

40 GBit generated by automated vehicles every hour (Lucid Motors)
Internet of Things connections expected to reach 3.5B in 2023

A compound annual growth rate of 30% (Ericsson Mobility Report)
data is the new pavement

“The smart city, driven by digital technology, is poised to replace the typical networked city of the industrial era, whose success was built on its hard infrastructure, from roads to water supply and sanitation systems, not only as a technological optimum but also as a social and political project.”

- Antoine Picone, Smart Cities: A Spatialised Intelligence
Data is a Girl’s (and city’s) Best Friend
Using Data for Smart Infrastructure and Long-Range Scenario Planning

Urbanism Next
Veronica Siranosian, Vice President, AECOM Ventures

May 2019
Smart Mobility Need

From 2013 to 2040

Population: +47% 7.8 Million Coloradans
Vehicle Travel: +47% 41.8 Billion Miles Traveled
Avg. Traffic Delay on congested corridors: 2 to 3 times
During peak hours (if we do nothing)

Overall System Funding Gap
Over the next 25 years
CDOT Revenues: $21.1 Billion
Gap: $24.9 Billion
Total needs identified by CDOT: $46.0 Billion

Source: Colorado Department of Transportation, 2014
Vision and Goals

Smart Mobility Strategic Approaches
- Safety
- Mobility
- Economic Vitality
- Maintaining the System

A vision for Colorado through Smart Mobility
Enhance the quality of life through enabling technologies and innovative partnerships that promote a safe and efficient transportation system for Colorado.
Data-Driven Technology Plan
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Data-Driven Technology Plan
Data-Informed Infrastructure Decisions
Data-Informed Infrastructure Decisions
Bottoms-Up Stakeholder Approach

Combined data-driven analysis and tool identification with bottoms-up stakeholder validation of needs and priorities

- **Kickoff Educational**
  - Statewide Webinars (May-June 2018)

- **Traffic Engineers**
  - Statewide Vision and Goals Workshop (June 2018)

- **Regional Workshops**
  - (Oct-Nov 2018)

- **Draft Plan Results**
  - Webinars, Responses to Comments
  - Statewide Plan Drafting (Jan-May 2019)

- **Statewide Plan**
  - Webinars, Smart Mobility Committee (ongoing)

- **ITS Architecture Preparation**
DC Autonomous Vehicle Study
Integrated Services

Service: Mobilitics

Search Services by Keyword

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MOBILITICS™

Navigating the Future of Mobility
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