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

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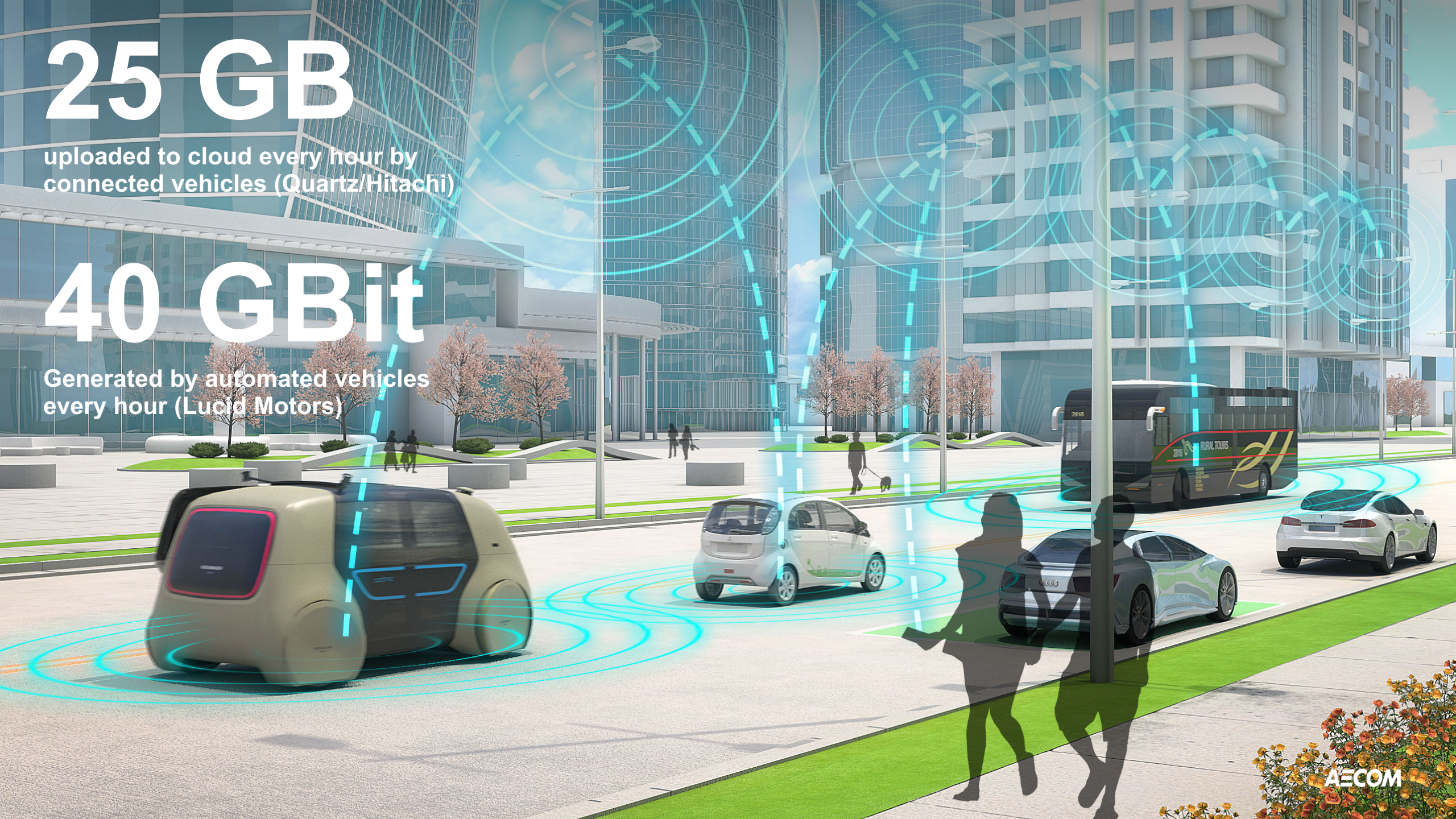
May 2019


25 GB
uploaded to cloud every hour by connected vehicles (Quartz/Hitachi)
40 GBit
Generated by automated vehicles every hour (Lucid Motors)
RURAL TOURS
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Internet of Things connections expected to reach

3.5B

in 2023

A compound annual growth rate of

30%

(Ericsson Mobility Report)

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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

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Using Data for Smart Infrastructure and Long-Range Scenario Planning

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Veronica Siranosian, Vice President, AECOM Ventures

May 2019

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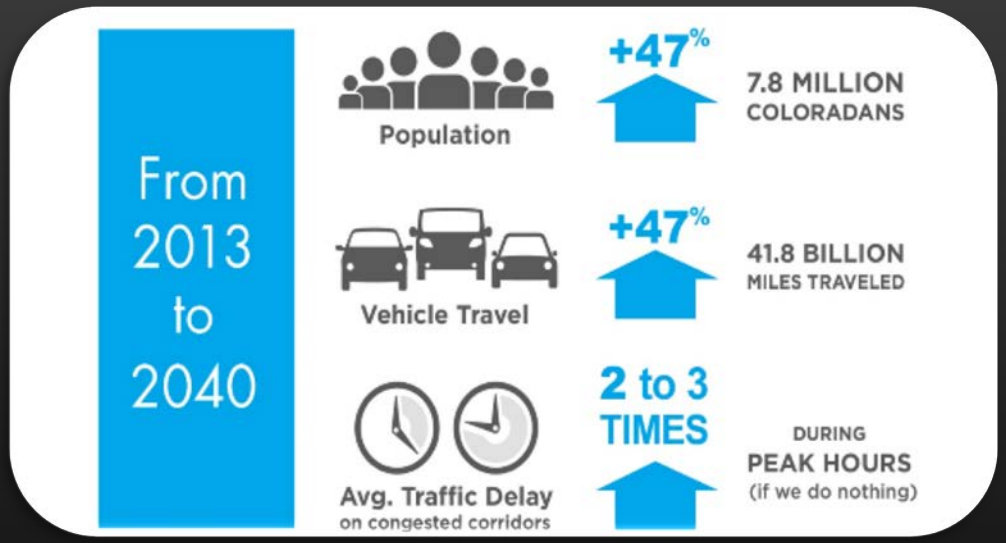
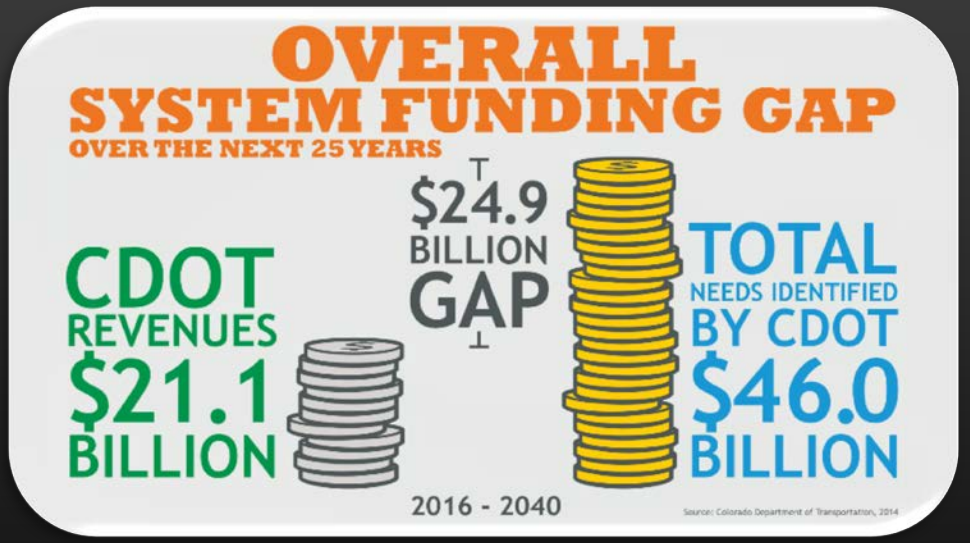
Colorado DOT Smart Mobility Plan

Smart Mobility Need





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Vision and Goals

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

Smart Mobility Strategic Approaches

- **Safety**
- **Mobility**
- **Economic Vitality**
- **Maintaining the System**

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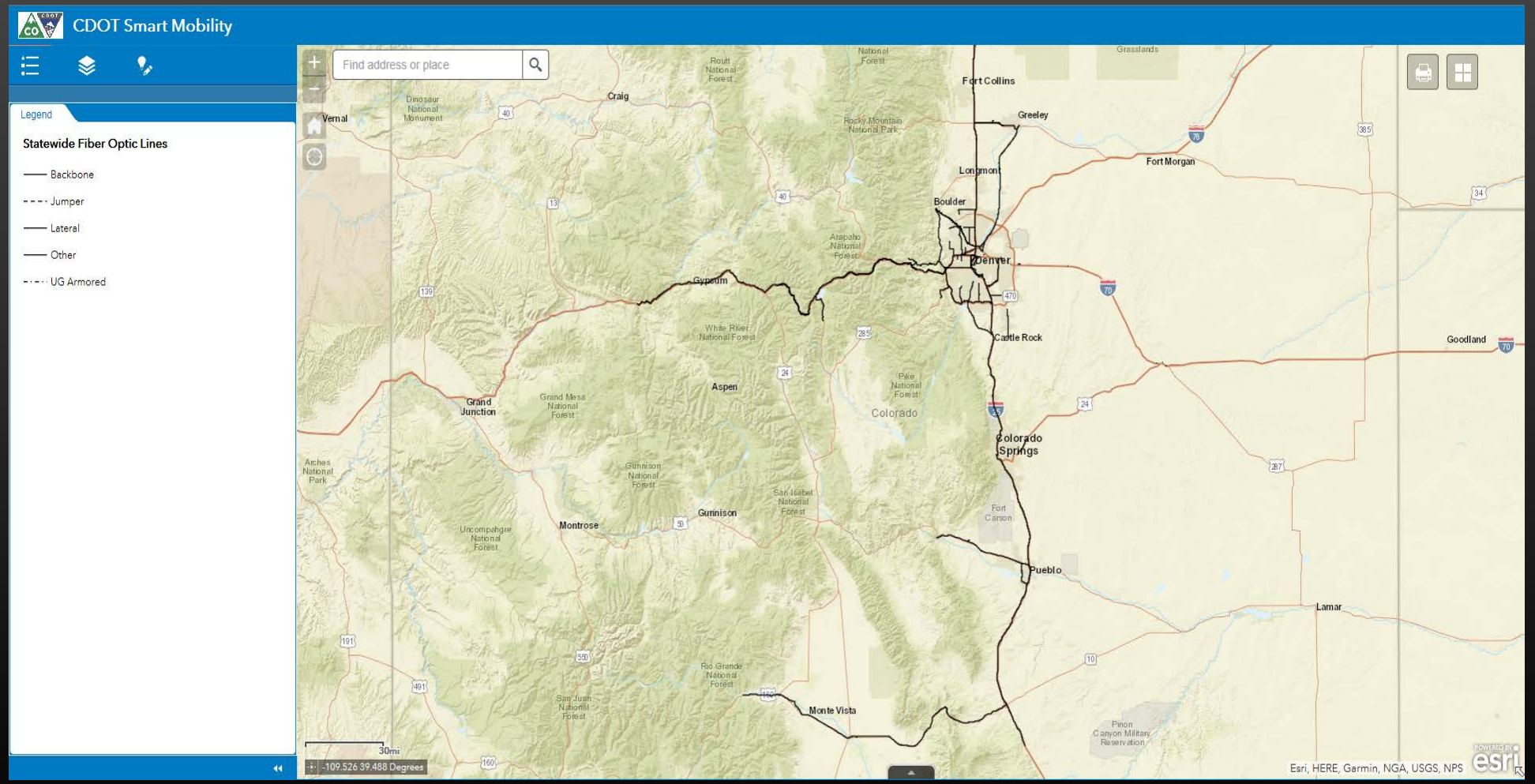
Data-Driven Technology Plan



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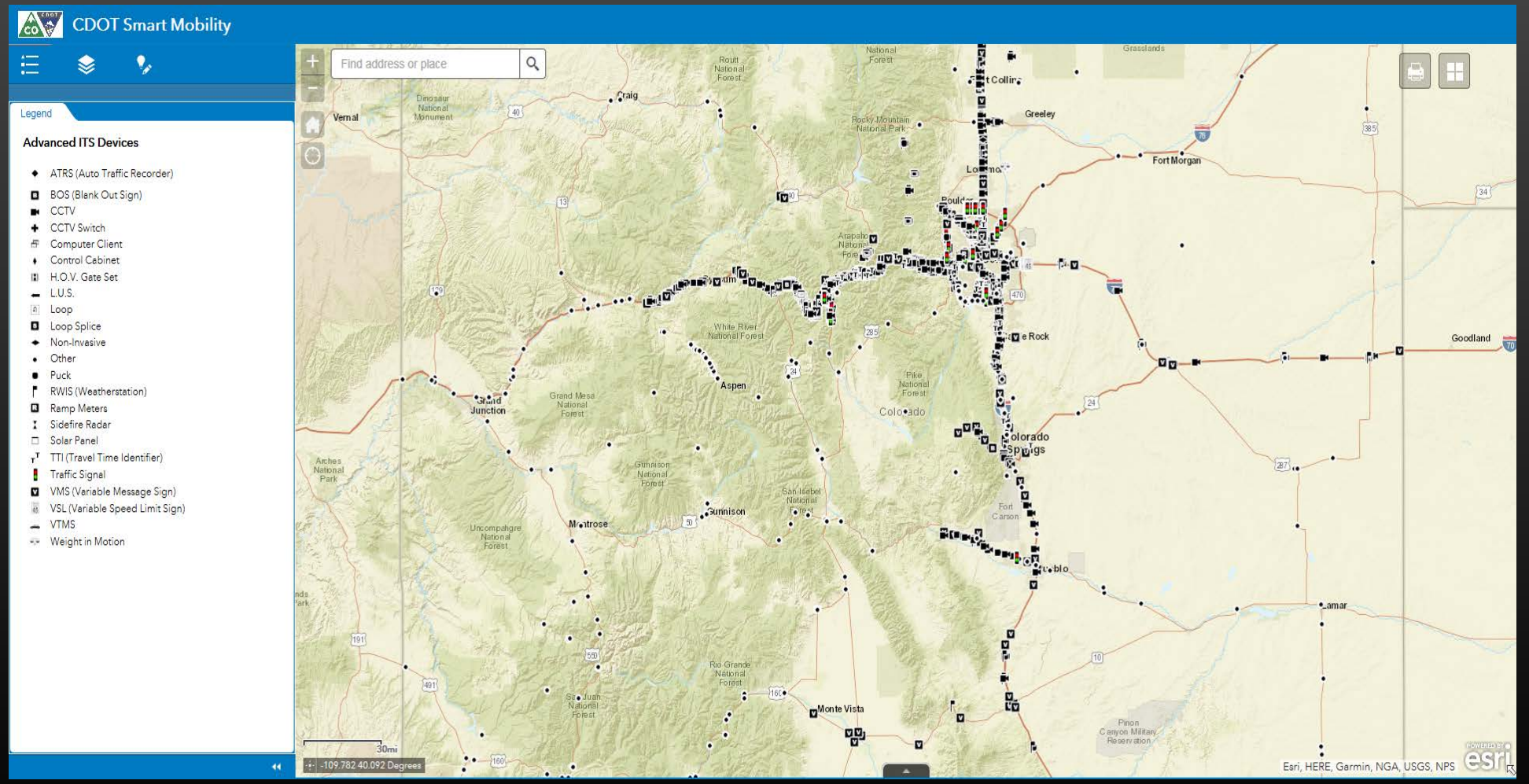
Data-Driven Technology Plan



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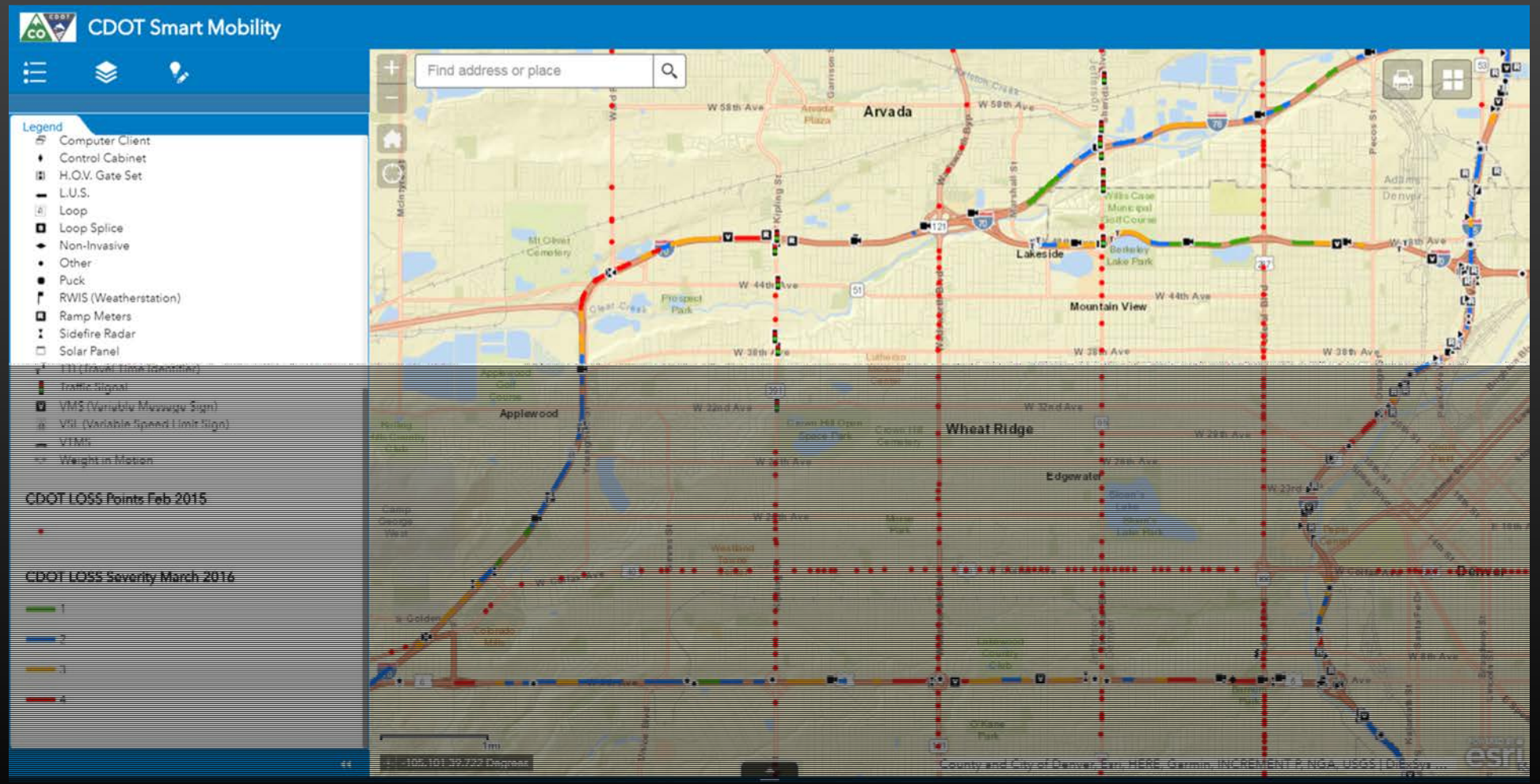
Data-Driven Technology Plan



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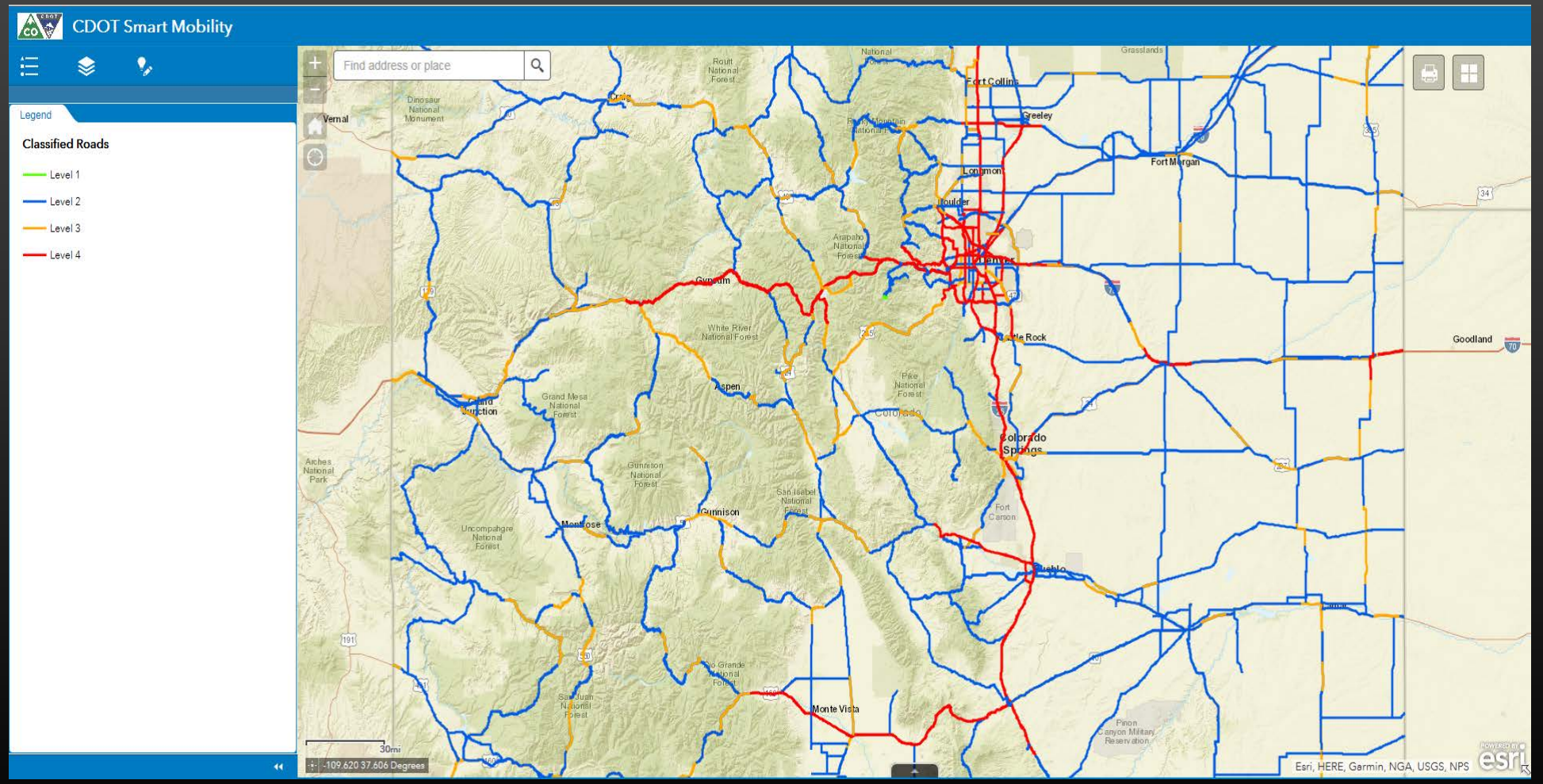
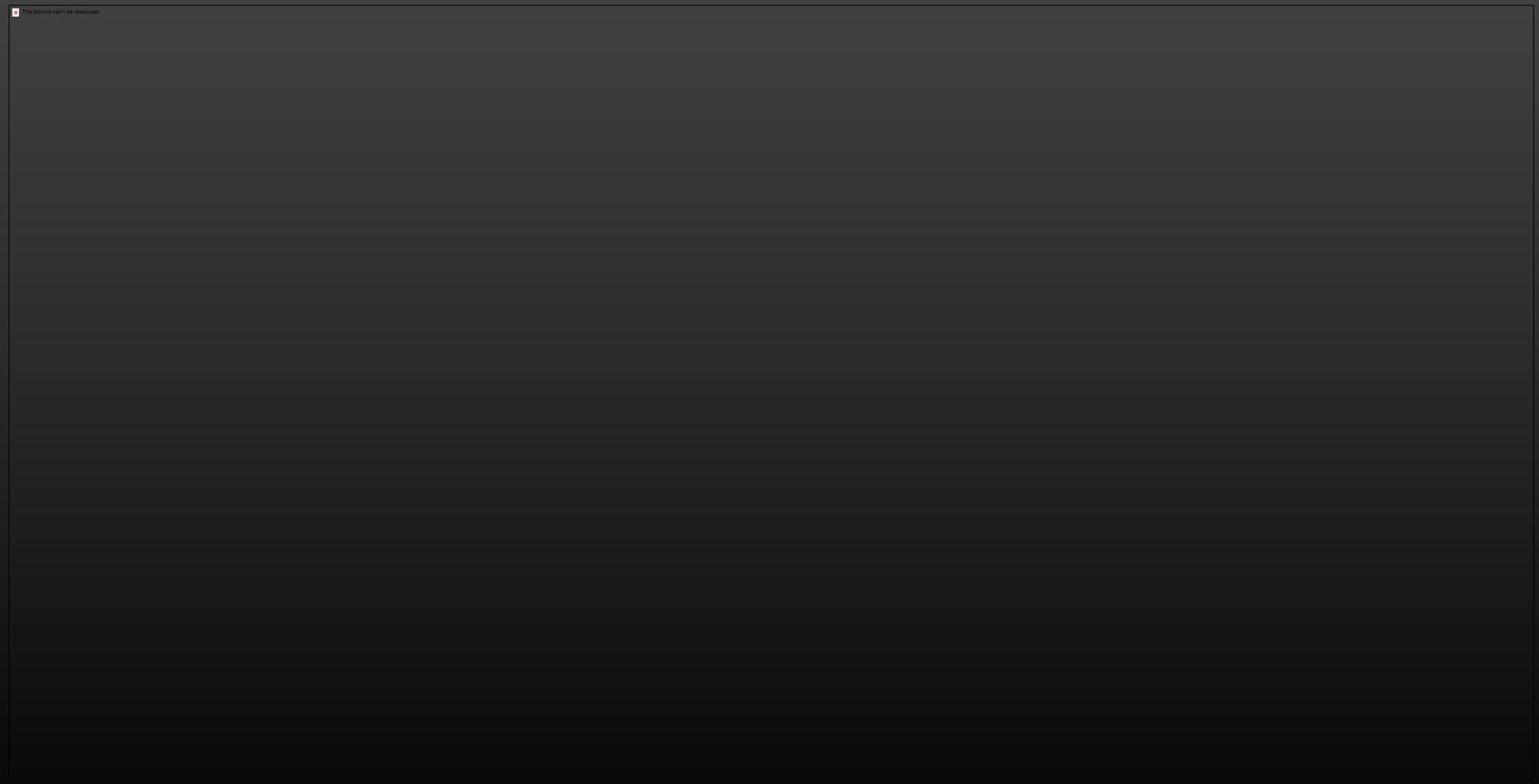


Data-Driven Technology Plan



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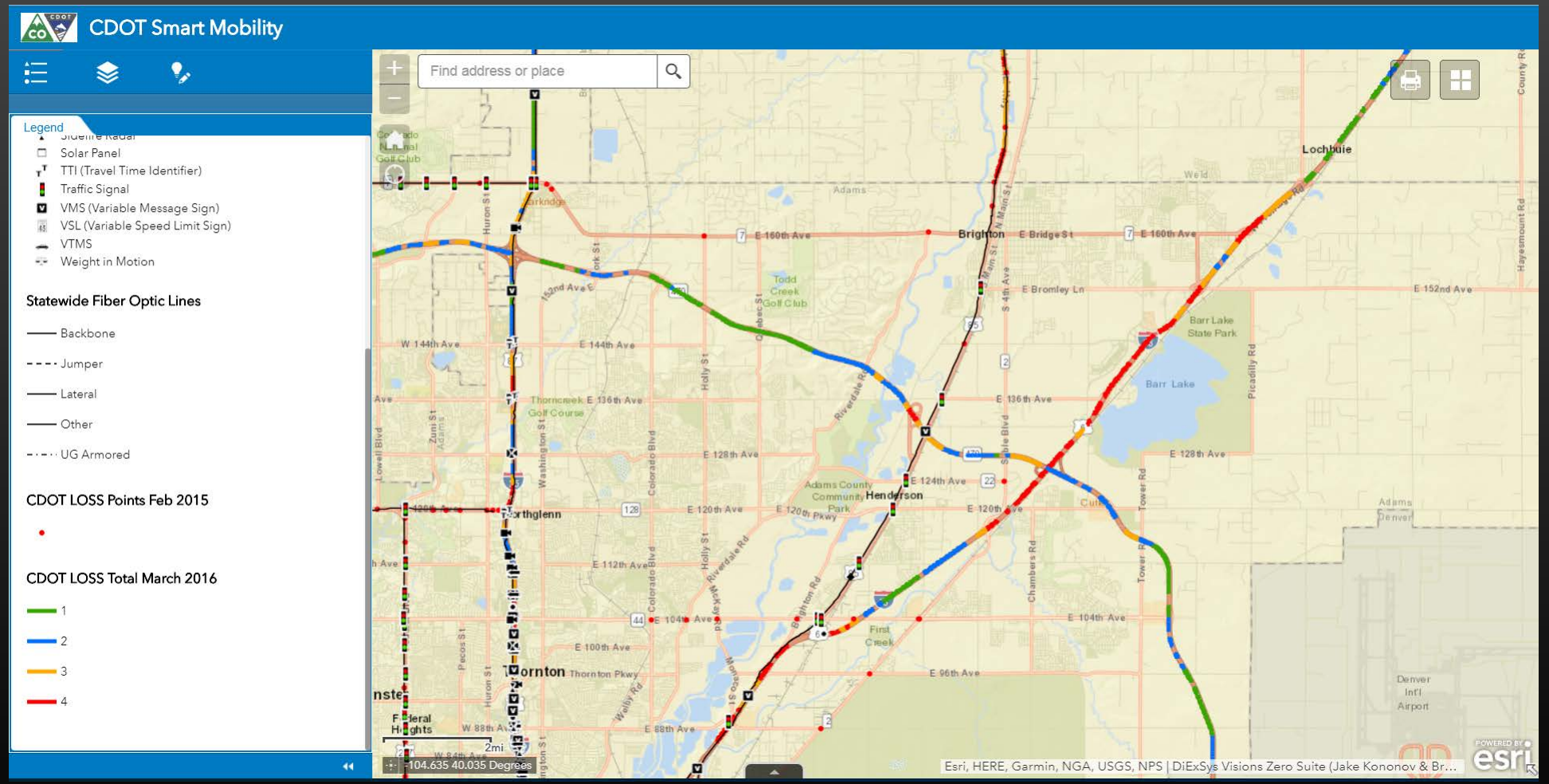
Data-Informed Infrastructure Decisions



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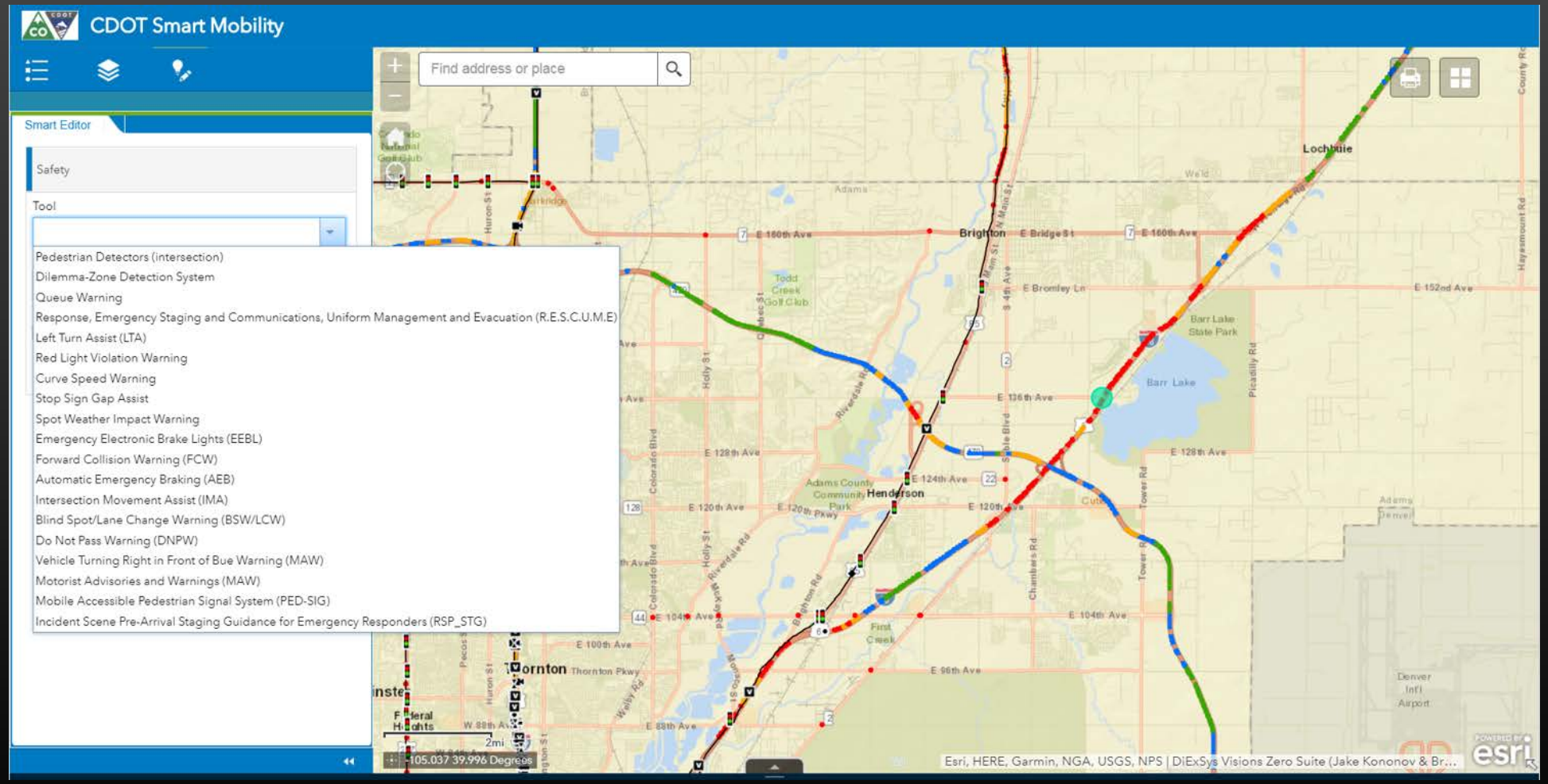
Data-Informed Infrastructure Decisions



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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

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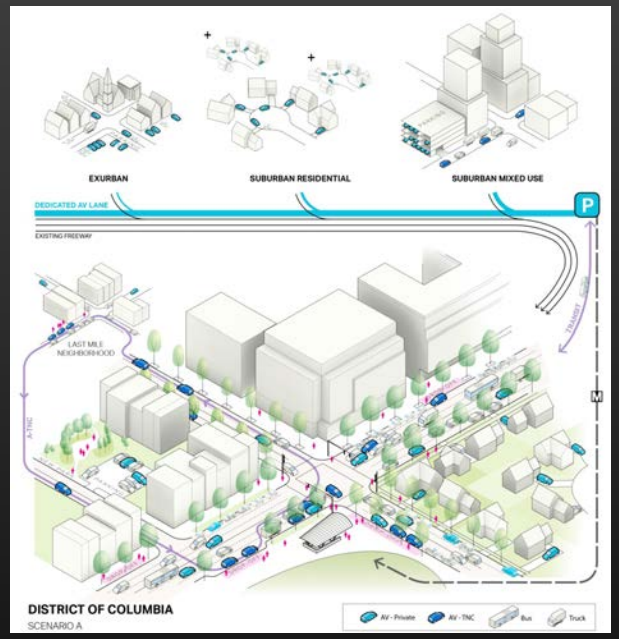
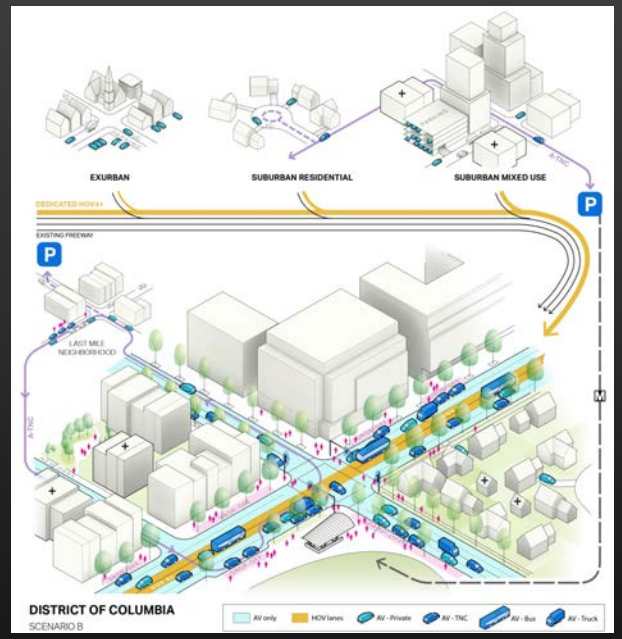
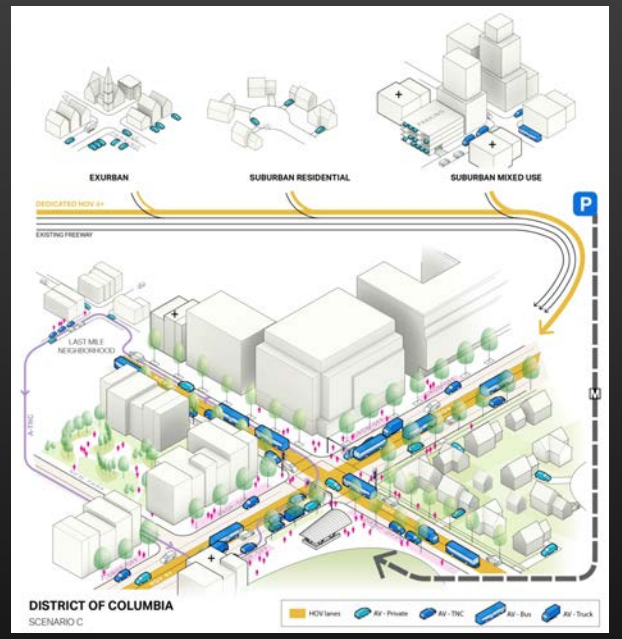
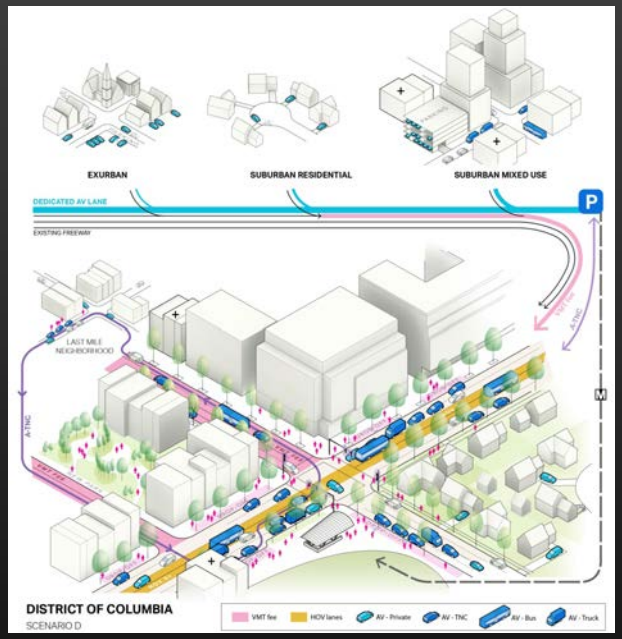
DC Autonomous Vehicle Study









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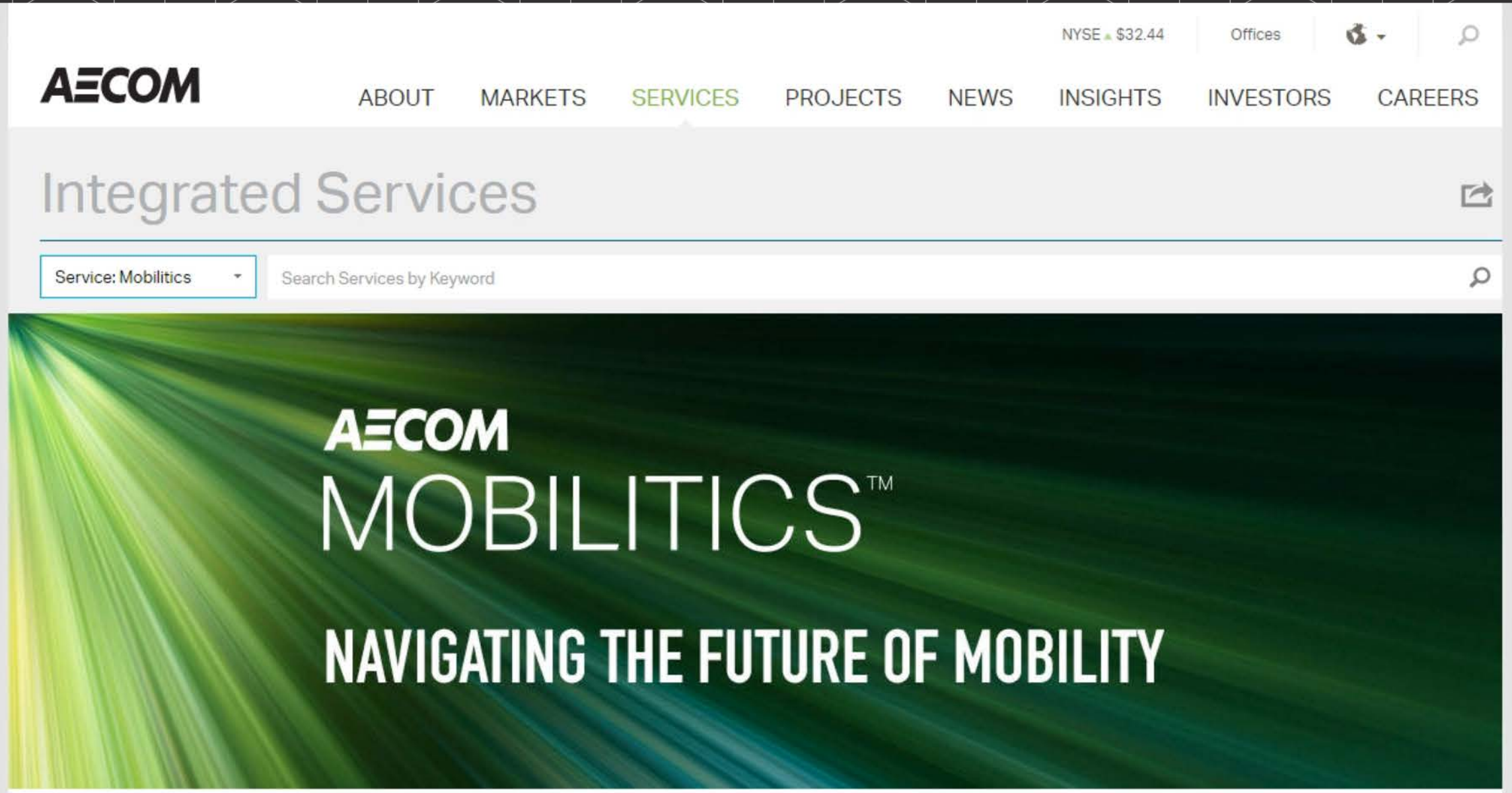
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Veronica Siranosian, AECOM: Veronica.Siranosian@aecom.com
Lauren Isaac, EasyMile: Lauren.Isaac@easymile.com
Claudia Preciado, Remix: Claudia@Remix.com
Kelly Rula, Seattle: Kelly.Rula@seattle.gov
Mollie Pelon McArdle, Open Transport Partnership: Mollie@transportpartnership.com

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