Colorado Smart Cities Alliance

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How are Smart Cities progressing in Colorado and how is the Alliance helping?

1. Smart Cities Overview
2. The Alliance - What we do, who we are
3. Progress and Action
Personal Background

Partnering sectors to deploy new technologies that improve health, safety, and the environment

- Alternative fuel vehicle infrastructure, policy
- Denver Smart City development team responsible for transportation decarbonization strategy and implementation
- $72 million Panasonic partnership with Colorado DOT to deploy nation’s largest connected vehicle infrastructure network
- Worked to deploy Colorado’s first two autonomous vehicle projects
PROBLEMS FACING COLORADO

- **Transportation**: safety, congestion, cost
- **Housing**: affordability, homelessness
- **Equity**: digital divide, access
- **Climate Change**: mitigation, adaptation
- **Public Health**: air and water quality

Even the smartest city can’t solve a problem out of it’s control

- Single family home since 2007: +60%
- Traffic fatalities since 2011: +40%
- Colorado children have asthma: 1 in 12

Population:
- 2012: 5,188,683
- 2025: 6,449,955
- 2040: 7,772,467
PROBLEMS IGNORE BOUNDARIES
TECH INTERSECTS WITH CITIES

Internet of Things (IoT)

Broadband and connectivity

Artificial Intelligence, Machine Learning

Edge Computing

Connected, automated, electric mobility

Sharing Economy

New Tools

1. Data into intelligence: Listen to civic vital signs, monitor and understand the problem to inform investments, policy, strategy, solutions

2. Efficiency of services: Improve, automate, or increase the convenience of government services

3. Change behavior of staff, citizens, businesses
DEFINING A SMART CITY

Smart cities are collaborative, innovative problem-solvers

The problem is that good collaboration is hard, technology changes faster than people, and hype is hard to distinguish from reality.
INDUSTRY VERTICALS

$237 billion industry by 2025
19% CAGR

Parking
Water
Micromobility
Urban Planning
Transportation
Energy
Opioid use
COLORADO SMART CITIES PROJECTS

Autonomous Vehicles

Air Quality Sensing

EV Charging

Delivery Robots

Connected Vehicles

5G Deployment
Factors complicating Smart Cities

- Budgeting, procurement and contracting
- Systems integration, maintenance
- Staffing capacity, expertise, coordination
- Unknown requirements necessitate partnership
- Regional problems require regional solutions
- Tech is often overpromised and underdelivered
- Citizen engagement and due process
- Security
- Recreation of the wheel
PRIVATE BARRIERS TO ACTION

Traditional business models aren’t working

• Decentralized decision making
• Pilots with no path to scale or profitability
• Skeptical customer with small budgets
• Smart Cities tech requires access to right-of-way, data
• Product development occurs in isolation of the problem
• Which city to approach, where to go within a city?
A SOLUTION

The Colorado Smart Cities Alliance
WHAT IS THE ALLIANCE?

The first and only statewide, multi-sector network dedicated to advancing smart cities in the nation.

A membership-based 501c3 organization uniting Colorado’s smart cities’ network to focus on issues of regional importance

A neutral third-party accelerating smart cities action by aligning efforts and de-risking the process
PURPOSE

1. Share, replicate and scale existing ideas across Colorado

2. Co-develop solutions that accelerate smart regions, cities
   - Outcome-driven
   - Replicable
   - Scalable
   - Inter-jurisdictional
   - Cross-sector
   - New technology or use case
MISSION

Create technology partnerships that develop and prove next-generation solutions to the challenges shared across Colorado

OBJECTIVES

1. Accelerate the Identification and execution of project partnerships
2. Provide forum for engagement across sectors and among jurisdictions
3. Create, house and share Smart City resources (procurement, case studies, projects)
4. Promote the Alliance and its members
ALLIANCE MAKE-UP

Who is the Alliance?
Private Members

- Arrow
- Charter Communications
- dish
- Verizon
- LGS Innovations
- Hitachi Vantara
- Trimble
- Xcel Energy
- Zayo
- mySidewalk
- Chrysalis Partners
- Slalom
- Clovity
Academic/Research/Associations
Philanthropic Members

[Logo of Gary Community Investments]
COLORADO OPEN LAB

Statewide asset for testing smart cities and IoT solutions

Alliance received $500k Advanced Industries Accelerator grant from OEDIT

Shared resources, bench-testing equipment, staff and facilities

Opens in September
THANK YOU