Colorado Smart Cities Alliance

Creating Technology Partnerships to Improve Colorado





CITIES AND INFRASTRUCTURE

The technologies of today are changing the infrastructure of tomorrow







Governments are at the center of massive change

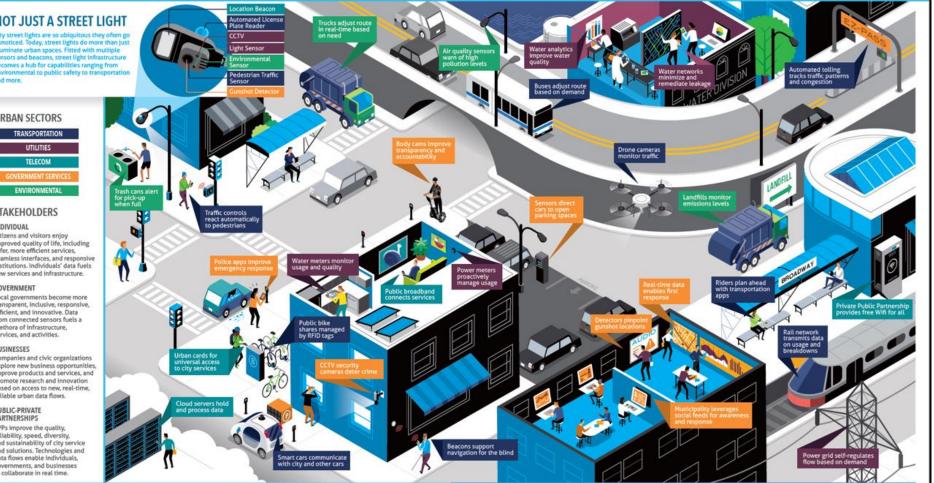
- 5G + broadband
- IoT
- Artificial intelligence
- Automation
- Electrification
- Sharing Economy



SHEDDING LIGHT ON SMART CITY PRIVACY

Cities generate data through a vast and growing network of connected technologies that power new and innovative services ranging from finding a parking spot to improving water quality. Smart cities can raise privacy concerns tied to the collection and use of individuals' data. Sophisticated data privacy programs can mitigate these concerns while preserving the benefits of cities that are faster, safer, more efficient, and sustainable.





WHAT vs HOW

How are communities approaching a problem without obvious solutions?

The process by which cities discover and implement better solutions is what makes them smart, not the individual solutions themselves

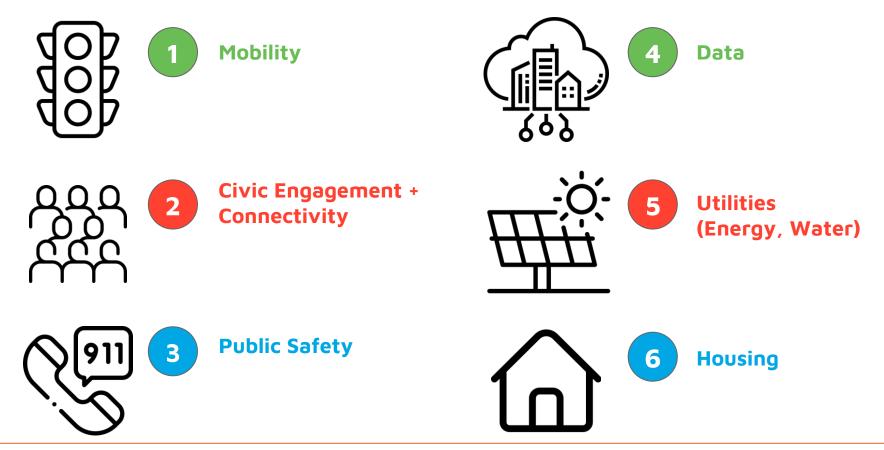
- What processes are common in smart cities?
- ♦ Why?
- How are they implemented?





RESEARCH

Challenges in need of solutions - not the other way around



WHAT IS THE ALLIANCE?



MISSION | A 501(c)3 non-profit founded to **create technology partnerships** that prove next-generation solutions to improve Colorado's quality of life

VALUES | Equity, Sustainability, Resilience, Humanism

Nation's first and largest statewide coalition dedicated to advancing smarter communities



GOVERNMENT MEMBERS



BUSINESS MEMBERS





STRATEGIC PARTNERS





























PROJECT PARTNERSHIPS

50+ smart cities projects created





AvCo - Mines Rover Autonomous, electric transit



Air Quality Monitoring

Private LTE fills coverage gaps for communication emergencies







Emergency Communications

Asset Management Cities of Centennial, Greeley V2G EV Charging City of Boulder 2021' IDC Smart Building Award



PROGRAMS





Supporting a New Majority in Smart Cities

- **Build 5G living lab** downtown for development and testing of new solutions
- Begin **business incubator** program for earlystage entrepreneurs
- Begin **accelerator program** for growth-stage companies
- Develop **smart cities education certificate** to educate workforce



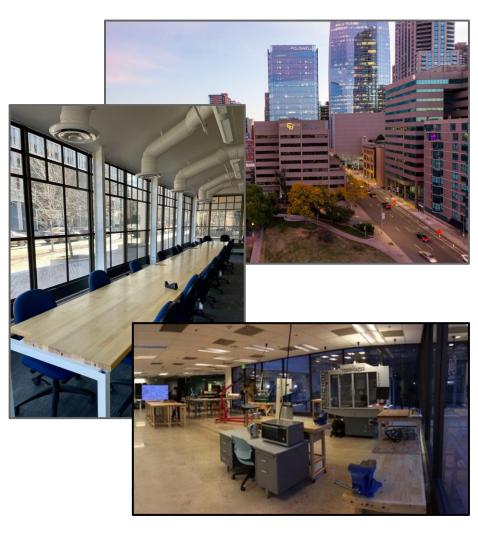


LAB ASSETS



Business accelerator dedicated to smart cities with existing assets:

- Co-working space
- 5G network for R&D
- Living Lab demonstration space
- Makerspace
- Meeting and Event Space





100% New Majority Led

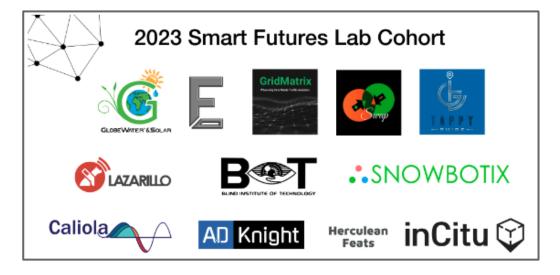
BIPOC, Women, People w/disabilities

Issues

- Climate
- Transportation
- Urban Development
- Accessibility
- Water
- Energy

Technologies

- 5G
- Robotics
- Augmented Reality
- AI/ML
- IoT
- Drones



INNOVATION CHALLENGES







ACCESSIBILITY

Increase the accessibility and inclusivity of public spaces and platforms.



SAFE STREETS

Improve the safety, convenience or comfort of active mobility within a community.





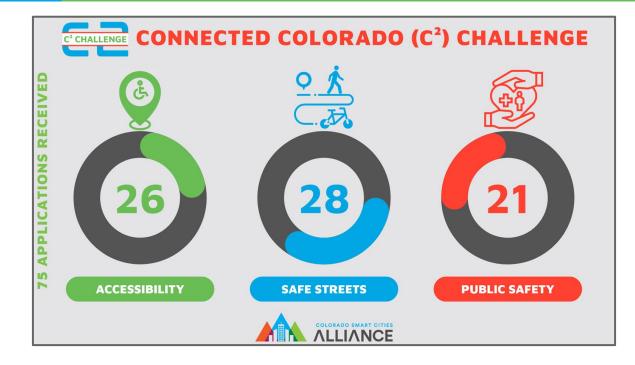
PUBLIC SAFETY

Increase the safety of public spaces through preventative and protective measures.



CONNECTED COLORADO (C²) CHALLENGE 2023 PARTICIPATING COMMUNITIES









Seeding curiosity and "Art of the Possible"

Augmented Reality (AR)



Accessibility Disasters Robotics



Underground Package Delivery Portable Private Networks



Wildfire Emergency Response



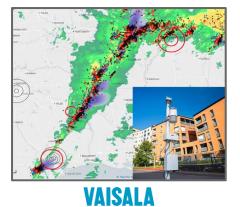




Robotic Snowplows



Weather Monitoring and Alerting System

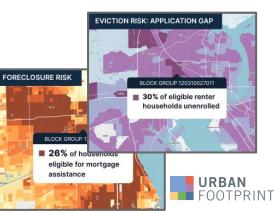


Road Safety Detection



Velodyne Lidar

Housing Risk Data



2022 Winners

11 Projects



QUESTIONS TO CONSIDER

Should governments have technical expertise?

How should this impact workforce?

What responsibility does government have to change?

To partner on testing new solutions?



Thank you! Follow us on social media:



linkedin.com/company/colorado-smart-cities-alliance



twitter.com/COSmartCities