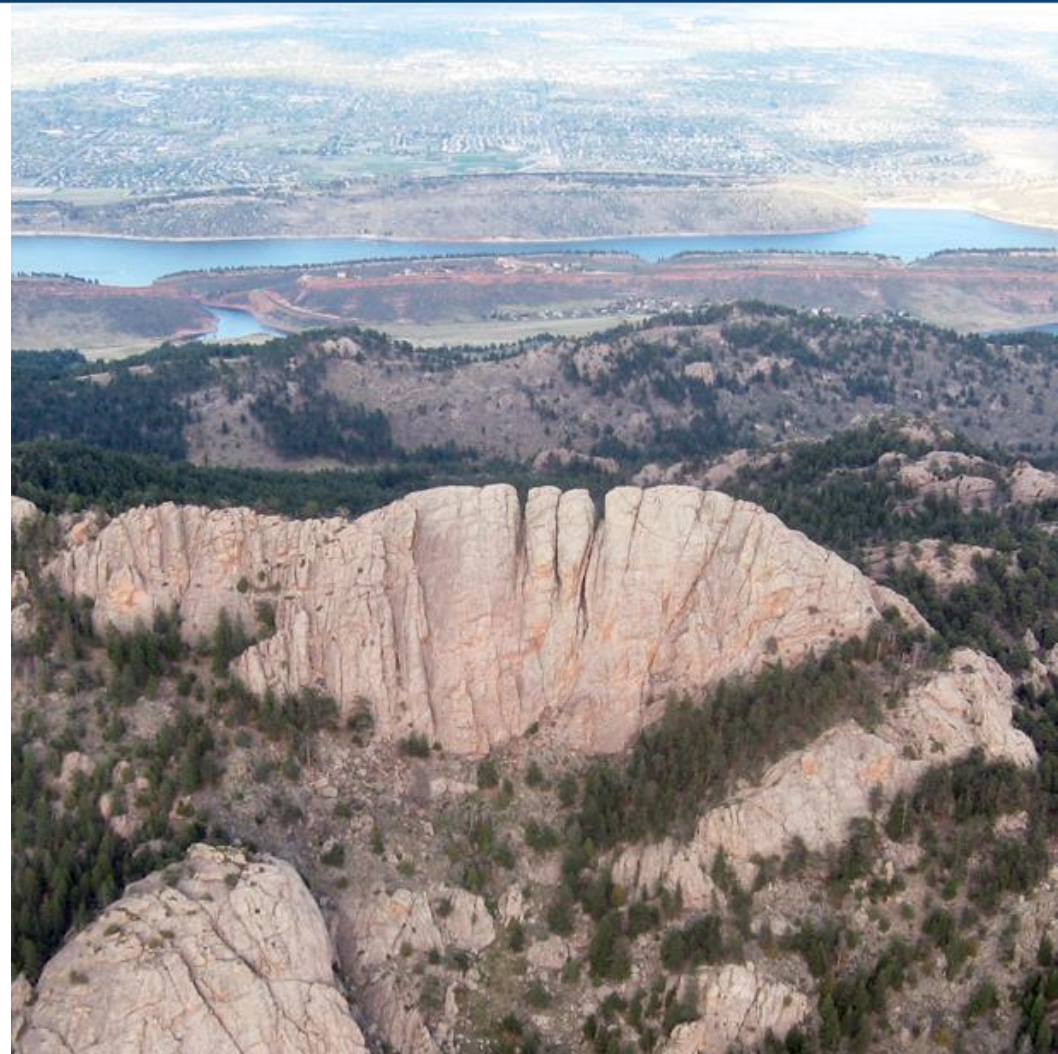




Land Use and Emerging Technology -
Managing Innovation
Jeff Mihelich, Deputy City Manager

Our Future – City as a Platform



Culture of Innovation



From Idea to Implementation:

- Innovation is part of Mission, Vision, Values
- Encourage staff to take intelligent risks
- Scalability – from big to small

Tools and Strategies:

- Innovation Fund
- Innovation Committee
- Partnerships

Smart City Transportation

- Traffic Monitoring
 - Smart data solutions for improved traffic patterns
 - Bluetooth technology leveraged to get real-time traffic data
- Dynamic Parking





- Goal: gig-speed fiber internet to every premise
 - Incumbents not interested
 - Need for local solution
- Grassroots community group
 - Led the campaign
 - Voter mobilization
- Outreach
 - Broadband and Beers
 - Telephone Town Hall

Campaign

- \$900k spent on opposition advertisements
- Grassroots group spent \$13k

Voter approval – 57% “for”

- \$153 million capital investment
- 1 year design
- 3 year buildout



Broadband Impact



- Enhanced speed and data transfer
- Telecommuting
- Energy efficiencies
- “Backbone” to 5G
 - Wi-Fi
 - Autonomous vehicles
 - L.E.D. streetlights
 - EV charging station

- Public-Private Partnership – Johnson Controls, Spirae, Fort Collins
- Solar energy battery storage
- Pilot – harness energy use as needed



- Food waste from CSU cafeteria
- Anaerobic digesters process solid waste into methane gas
- Woodward – experimental generators fueled with methane
- “City as a Platform” solution



New Emerging “Smart Development” – Montava

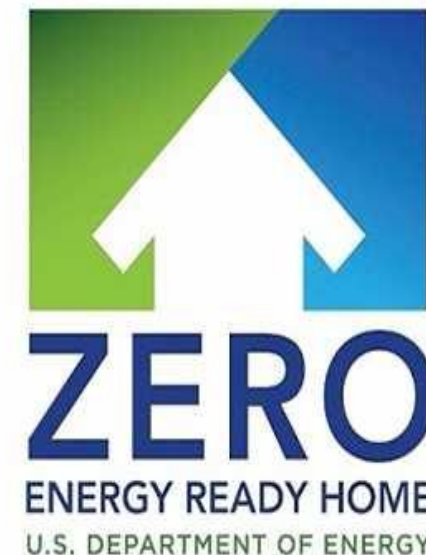


- Community vision: build community connections via sustainable development
- Connected community elements:
 - Local food production
 - Urban agriculture
 - Nature in the City
 - Multigenerational living
 - Affordable housing

- Technology impacting land use
- Smart City initiatives
 - Autonomous electric shuttle
 - Distributed energy
 - Smart meters (Utility/water)
 - Edge systems (NEST)
 - Broadband/5G



EasyMile
@Easy_Mile



Innovation Culture – Critical Pieces

Important to:

- Collaborate
- Foster partnerships
- Be willing to invest
- Take intelligent risks

Key takeaways:

- Legacy projects
- Risk is necessary
- Can't point fingers
- Accept failure (within reason)
- **CELEBRATE!**

Smart City Impact Development

- Autonomous vehicles
- Compact parking structures
- Live/work predominance
- Distributed energy
- Climate economy
- Better life/work balance



Thank You!

