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
Energy Storage

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

- 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
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