

Fostering Innovation to Build a Smart City Culture

- Innovation Team
- Innovation District
- Projects

WELCOME TO
LAS VEGAS



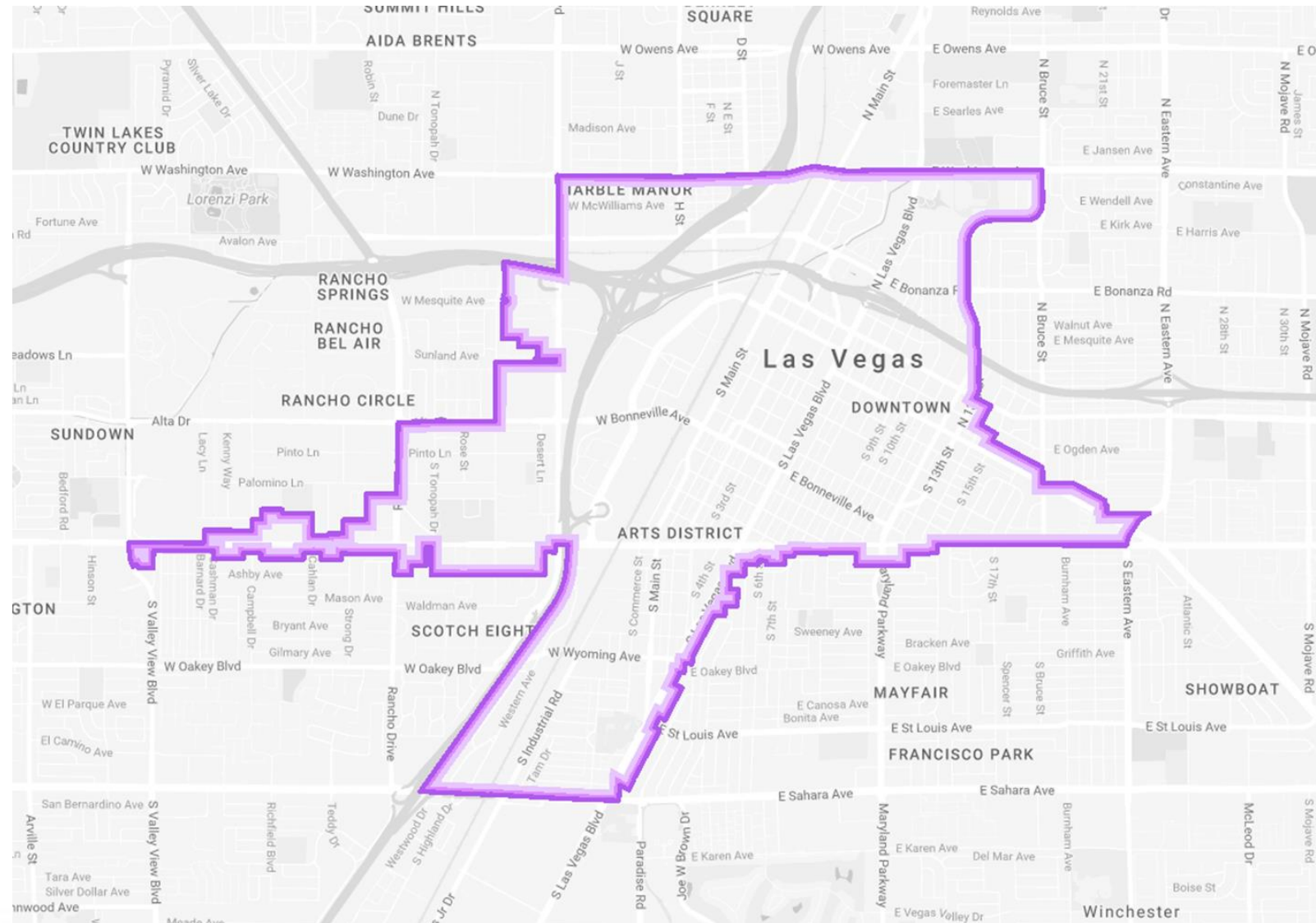
Innovation Team

- Cross-departmental:
IT; Public Works; Planning; Communications; Econ. Dev.
- Team Leader
- Organic (Bottom up - not top down)
- Philosophy – Innovation is everyone's job, not just one person
- May need Officer due to levels of activity requiring coordination
- Need a next level strategy: Working off Smart City Application



Innovation District

- Downtown Las Vegas
- Focus on traditional city infrastructure looking forward
- www.innovate.vegas.com



Select Projects – App Development

- City LV Mobile – iPhone and Android (\$30k)
- Amazon Echo – Alexa (Staff time)
- Apple TV Channel (\$50k)
- Single User ID
(GoVegas Ecosystem)



Select Projects - Infrastructure

- WIFI in parks and downtown
- Air quality monitoring
(\$2,000 per sensor, per year)
- Smart street infrastructure –
Motionloft
(\$2,500 per sensor, per year)

Challenges & Measuring Results



Using Innovation to Make Life Better



Appendix



Project Name	Description	Community Issues being Addressed
Driverless Shuttle Pilot	Developing pilot for 2nd on-street deployment. This second pilot will connect the vehicle to traffic signals.	Mobility Parking Safety Economic Development
Downtown Innovation District Infrastructure	Installation of conduit, fiber, and telecommunications equipment in support of communication network for Smart City deployments and providing Public WiFi	Infrastructure
Smart City Concept of Operations and Visioning Document	Develop an implementation roadmap for CLV to use as they continue deploying their Smart City infrastructure	Visioning
Downtown Connected Corridor Deployments	Deployment of DSRC for safety use cases such as pedestrian crash avoidance, wrong way entry crash avoidance, red light running avoidance. This will be the basis for communicating with connected cars.	MultiModal Safety Capacity/Mobility Data for Planning
GENIVI Connected Car Pilot (Should be noted no financial contribution was required for this project.)	Create connected, city-wide mobile resources and systems to help expedite ambulance response time, enable better triage, and standardize procedures for medical professionals. Involves emergency responders, public safety officials, application developers, GPS / GIS / location services, and citizens.	Pedestrian and Vehicle Safety Data for Planning

Project Name	Description	Community Issues being Addressed
Cisco Infrastructure	Deployment of network hardware to provide connectivity for sensors, interconnecting facilities and wireless infrastructure	Infrastructure
Cisco – Connected Digital Platform	Dashboard system where sensor data is displayed and where observers can review and make decisions	Public Safety Environmental – Air quality and trash Traffic Safety and Mobility Parking
Cisco Wireless	Provide WiFi in and around the downtown Las Vegas area for consumer use as well as internal use (sensors)	Infrastructure
Motionloft	Intersection analytics	Pedestrian Safety Data for Planning and Economic Development
Hitachi	Dashboard system where sensor data is displayed and where observers can review and make decisions	Public Safety Environmental Traffic Safety and Mobility Parking

Project Name	Description	Community Issues being Addressed
Apple TV Channel	Development of an Apple TV channel to distribute city council meetings and other city video content	Social
Amazon Echo	Conversational computing	Social
ShotSpotter	Sound detection system	Public Safety
Cisco – LIDAR	Pedestrian and vehicle alerting system	Pedestrian Safety Public Safety
Numima	Intersection analytics	Traffic Safety and Mobility

Project Name	Description	Community Issues being Addressed
www.innovate.vegas	Website dedicated to promoting the city of Las Vegas and its innovation efforts.	Social Economic Development
Camera System	Camera system for monitoring intersections and deriving analytics Medical District and Corridor of Hope	Public Safety
WiFi in Parks	Establish WiFi service in city parks	Public Safety Environmental (Air quality and trash) Social
Environmental Analysis (T-Mobile)	Air quality monitoring on 3 rd street	Environmental Social – Quality of Life
Living Technology Lab	Incubator location where city staff, vendors and upstarts can work together on social and technical innovations.	Social Economic Development

Project Name	Description	Community Issues being Addressed
US Ignite \ Gigabit Community	Application to become a Gigabit community	Economic Development
CES Challenge and Outreach	Consumer Electronics Show (CES) attracts innovators from around the world and is increasingly focused on Smart Cities applications. In collaboration with CES, we plan to reach out to industry and solicit their best, deployable, smart cities applications so they can be evaluated and the winners announced at CES.	Social Economic Development