



LED lighting Panel

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Moderated by: Adam Quinn (E3, LED Solutions)

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Dallas Innovation Alliance Living Lab

- The Dallas Innovation Alliance is a non-profit, public private partnership dedicated to the design and execution of a smart city strategy for Dallas.
- Founded in September 2015 at the White House, the DIA's partners include the City of Dallas, Dallas Regional Chamber, Downtown Dallas Inc., DART, Oncor, Texas Research Alliance, AT&T, Cisco, Ericsson, GE, AECOM, IBM, and others. Currently over two dozen member organizations.
- Project Initiatives focused on Smart Infrastructure, Smart Mobility and Connected Living



Dallas Innovation Alliance Living Lab: Why Now?

The DIA operates from the definition that a **Smart City is one where social and technological solutions facilitate sustainable economic growth, increase resource efficiency, and importantly, improves the quality of life for its citizens.**

Why? It's not if,
but when

How? Multi-phased
approach: proof
of concept,
learnings, then
expansion

Where? A living lab pilot
zone in CBD, in
the West End,
growing Dallas
Innovation
District

Lighting Projects Around the Country....

San Diego: LED light replacement initiative

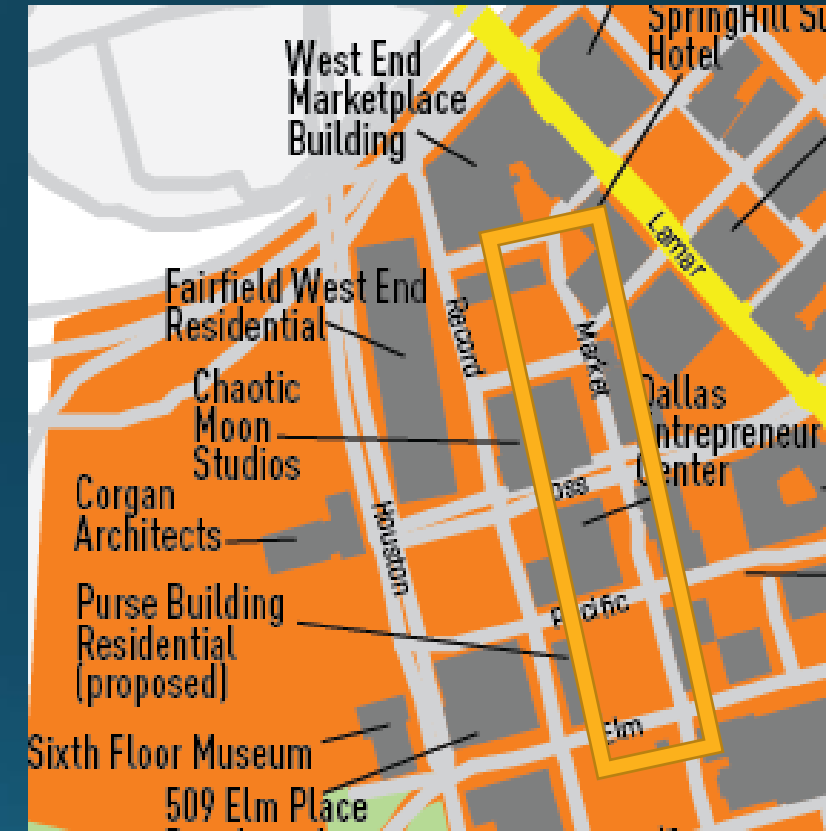
- Replacement of approximately 3,000 high pressure sodium fixtures in San Diego's downtown with LED bulbs and new, intelligent fixtures that incorporate wireless lighting controls.
- 250k annual cost savings to city, 60% energy use reduction and CO2 emission reductions.
- With LightGrid software and reporting, additional savings are expected by moving to a metered rate, rather than a flat-rate tariff, with its local utility company for the city's street light usage
- Currently expanding use cases around light poles to include parking optimization and connectivity [additional revenue opportunities for San Diego]



Dallas Innovation Alliance Living Lab

The Living Lab

- Incorporate 5-7 smart city projects into a Living Lab in the West End of Downtown Dallas. These include smart lighting, waste management, digital citizen-centric kiosks, smart irrigation, smart parking and public Wi-Fi/network infrastructure
- **Differentiation:** Create the first fully integrated smart city initiative to fully capture insights across data streams.
- **Phase I Living Lab Scope:** Four blocks along North Market Street in the West End
- **Testing against KPIs** around economic development, energy and water cost and usage, public safety, transportation and others
- **Outcome:** Provide case study to the City of Dallas detailing results and ROI, as well as present multiple financial models to advise in project scaling and sustainability




Dallas Innovation Alliance Living Lab



Use Case: Smart Lighting

- Intelligent automated LED lighting network for energy efficiency and reduced staff time/truck rolls
- Citizens feel safe and can easily walk and park in the West End
- Environmental sensors for air quality, and crowd and noise sensors for citizen safety
- Parking optimization with video cameras [Phase II]

Phase I: Four blocks along North Market Street in the West End [58 acorn lights]

- **Timeline:** Installation and baseline reporting prior to end of 2016
- **Pilot length:** One year, reported out quarterly. Concluded with case study recommending expansion strategy and sustainable financial options to scale. 

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