



SmartSA Streetlight RFP

Briefing on the first RFP issued under the SmartSA Partnership

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“To leverage data & technology to build a connected, inclusive and resilient community supporting a high quality of life.”

Access to Services

Mobility

Sustainability



SAWS

SARA

BCAD

EAA

SAHA

UTSA

CPS Energy

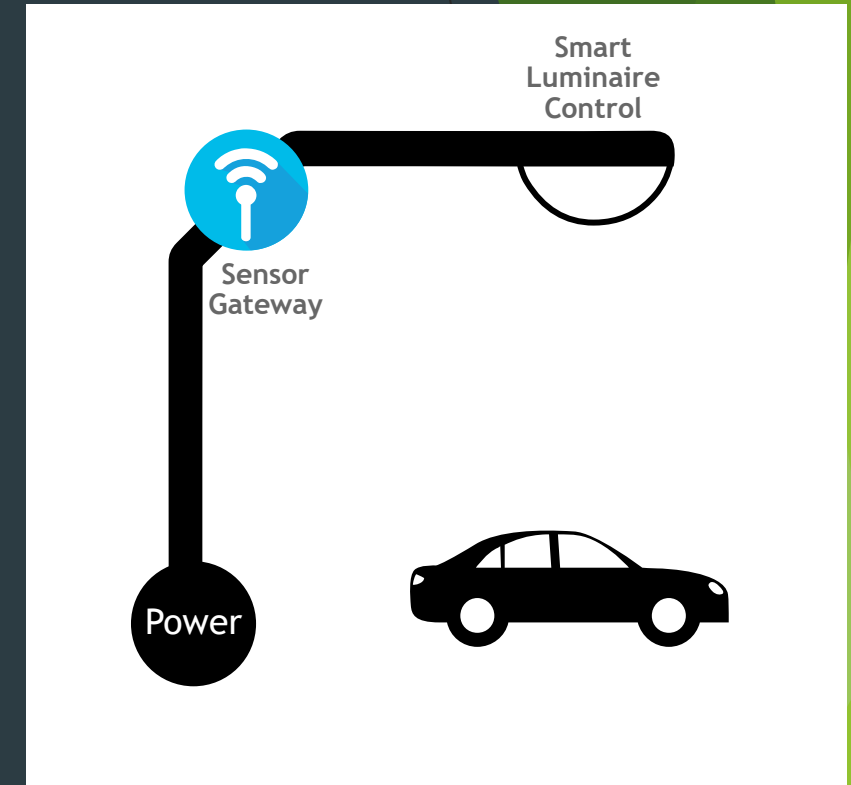
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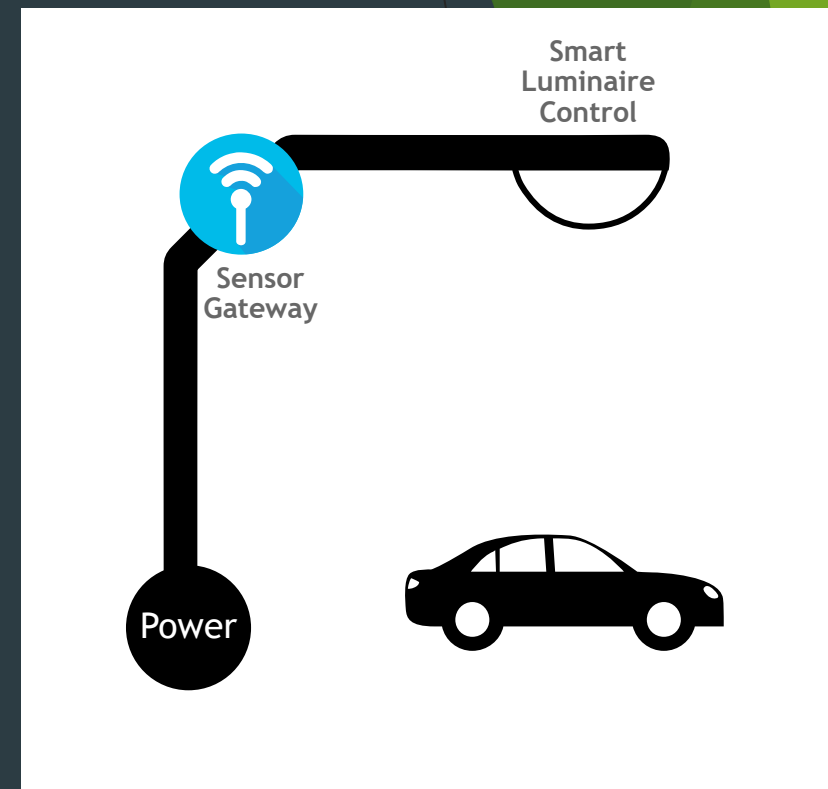
What is this RFP for?

- ▶ Smart Luminaire Controls (CPS Energy)
 - ▶ Real time monitoring and control of LED Streetlights
 - ▶ Alerts of devices which are not operating as expected
 - ▶ Improved maintenance planning and operational efficiency
- ▶ Smart Streetlight Technology (CoSA)
 - ▶ 5 Use Cases for sensor technology



How does this RFP work?

- ▶ Phase I - Pilot Phase
 - ▶ 3 Vendors deploy pilots in 3 Innovation Zones
- ▶ Phase II - Lessons learned from Phase I inform criteria for city-wide deployment



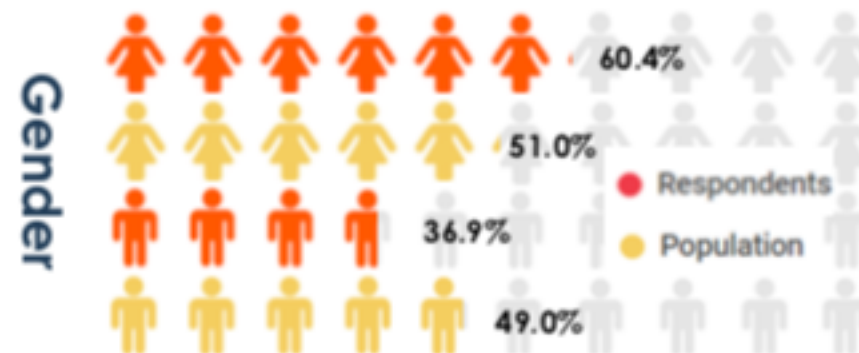
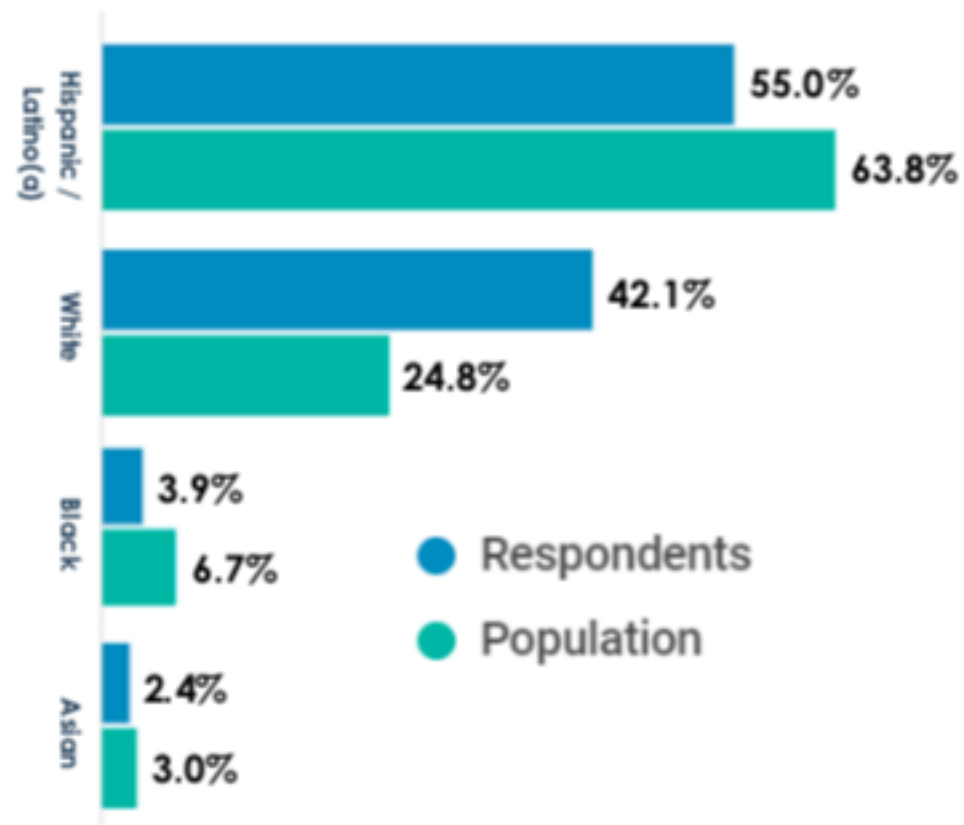
Background - How did we get here?

- ▶ Council calls for Downtown Lighting Plan (DTLP) - 2016
- ▶ Council Establishes Innovation Zones - Summer 2018
- ▶ OISC Conducts Community Surveys in Innovation Zones - December 2018
- ▶ Use Cases for Smart Streetlight Technology Identified (ITSD, CoSA) - Jan 2019
- ▶ Use Cases Prioritized (OISC, CPS-E) - Feb/March 2019
- ▶ DTLP Approved by Council in April 2019
- ▶ SmartSA Partnership w/ CPS Energy procurement leads RFP - May thru today

Innovation Zones: Brooks, Downtown, & Medical Center



Survey Respondents: Race & Ethnicity



Survey Respondents: Age



Use Case Identification & Prioritization

- ▶ CoSA City Departments identified Smart Streetlight Use Cases for the Downtown Lighting Plan (DTLP)
- ▶ Use Case Prioritization Criteria:
 - ▶ Technical
 - ▶ What are the possible network solutions?
 - ▶ Can the use case collect useful data?
 - ▶ Community Benefit
 - ▶ Does the use case address walkability?
 - ▶ Does the use case address pedestrian safety?
 - ▶ Does the use case address traffic congestion?
 - ▶ Does the use case address a zone-specific challenge?
 - ▶ Financial: Is budget available?
 - ▶ Feasibility Score: Rating provided by DTLP Consultant based on other cities

Result

- ▶ High Priority, High Feasibility: Environmental, Safety & Mobility Sensing (Suitable for general deployment, RFP)
 - ▶ Air Quality Sensing
 - ▶ Temperature Sensing
 - ▶ Ambient Noise Detection
 - ▶ Parking Sensing
 - ▶ Automated Water Level Indication & Monitoring (SARA)
- ▶ Process documented in:
 - ▶ Smart Street Light Section of the Urban Lighting Master Plan
 - ▶ Appendix; providing context for Office of Innovation, Prioritization Process, and Result

RFP Highlights

- ▶ CPS Energy led procurement
- ▶ Each use case & Luminaire control solution will be demonstrated by three vendors in each Innovation Zone
- ▶ Vendors evaluated on criteria including community involvement, data security and privacy, and interoperability
- ▶ Goal for low/no-cost Pilot Phase
- ▶ Use Pilot Phase to learn about technical and financial requirements for city-wide deployment

Next Steps

- ▶ Issue RFP (July 22)
- ▶ OISC works with CPS Energy on a data sharing agreement
- ▶ Evaluation & Selection of top 3 vendors (Late Summer 2020)
- ▶ Pilot Phase (Fall 2019)
- ▶ Pilot Evaluation (Spring 2020)
- ▶ Selection for City-wide deployment