

The San Antonio R&D League Proposal to the NSF Civic Innovation Challenge

**Multi-modal Mobility Ecosystem
Connecting San
Antonio's Low-Income
Communities to Opportunities**

Proposal Team

- City of San Antonio R&D League
 - CoSA Office of Innovation
 - Southwest Research Institute
 - University of Texas at San Antonio
- VIA Metropolitan Transit
- The Policy Lab – Brown University
- Several other CoSA offices

Civic Innovation Challenge

- National Science Foundation Research and Action Competition
 - Communities and Mobility
 - Address spatial mismatch between housing affordability and jobs
 - Resilience to Natural Disasters
- Engagement with community partners
- Emphasis on prototype deployments within 18 months

How We Came to Apply ...

- Opportunity identified by multiple team members
- Leverage existing team relationship of the R&D League
 - Ideal team envisioned by NSF already in place
- Office of Innovation coordinated engagement by additional stakeholders
 - VIA was a key contributor
- UTSA and SwRI led technology development

What We Proposed ...

- Develop methodology and prototype implementation of public transit optimized to societal outcomes
 - Formulate practical methods for measuring performance relative to overall objective
 - Develop technology approach to improving service
 - Extend VIA on-demand transit
 - Identify region for pilot deployment of new services

Where Do We Go from Here?

- R&D League is a great mechanism for assembling inter-disciplinary teams and diverse stakeholders
- Utilize existing team and relationships to pursue future funding opportunities to enhance public transit in San Antonio
- Developing technology portfolio of “shovel-ready” research and prototype projects