EDAPTS ITS
Steps to Commercialization

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EDAPTS ITS:

What it’s all about

- Designed as a cost-effective method for implementing ITS
- First deployment provided prototype hardware & software
- Flexible & extensible open source software & designs
EDAPTS ITS:

- Key Features of the first deployment:
  - AVL
  - Validation of boardings
  - Estimated arrival time to passengers waiting at stops
  - Planning tools

- San Luis Obispo (SLO) Transit and Cal Poly Parking & Commuter Services provide ongoing support
The Next Step for EDAPTS: Commercialization

- Integration options are necessary
- Full-service integration required for most potential users
Ongoing EDAPTS Work

The Second Deployment

1. Performing a cost-benefit analysis of the first deployment in San Luis Obispo, CA
2. Develop performance-based specifications for EDAPTS
Ongoing EDAPTS Work

Performance Spec. Areas:

- Communications
- Computational performance
- Interfaces & standards
- Data accuracy
- Ruggedness
- Ergonomics
- Installation and maintenance
- Power consumption
Ongoing EDAPTS Work

The Second Deployment

3. Performing a test deployment on shuttle system at Cal Poly Pomona in Southern CA:
   – Identify commercial suppliers for EDAPTS
   – Look for complementary projects to entice suppliers
   – Test the application of the new performance-based specifications
Defining the Second Deployment

- Understand the existing Pomona Bronco Express shuttle operation in detail
- Determine how EDAPTS can best provide operational improvements
- Create a performance-based procurement package
Expected Outcomes of the Second Deployment

- Improved customer service:
  - Riders will know arrival time more precisely
  - Riders will have more frequent opportunities to catch the bus
  - Rider confidence will be significantly improved
Expected Outcomes of the Second Deployment

- Improved operational efficiencies:
  - Driver breaks better managed and hence more time in service with vehicle
  - Simpler driver operations and record keeping
  - Dramatically reduced reporting effort for contractor
  - Comprehensive boarding & route schedule adherence information available for fleet operations planning
Expected Outcomes of the Second Deployment

- Identification and availability of commercial suppliers
- Identification and articulation of funding sources for small transit properties