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

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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

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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

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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

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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

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Expected Outcomes of the Second Deployment

◆ Identification and availability of commercial suppliers

◆ Identification and articulation of funding sources for small transit properties