RouteMatch
Software™

Transit Technology Deployments
"Multi-modal Operations – Partnerships to Deploy Technologies

Presented By: RouteMatch Software

Date: October 23, 2013   **Time: 1:30**

Juneau, AK Centennial Hall

ITS ALASKA
INTELLIGENT TRANSPORTATION SOCIETY OF ALASKA

Welcome!

Discussion Topics Today:

Technology Deployments

- ✔ Fairbanks, Alaska
- ✔ Statewide Idaho Transportation Department

- ☑ **Metropolitan Commuter Access System (MACS)**
  - – **Community Services**

- ☑ **Fixed Route**
  - – 9 Routes
  - – 17 Fixed Route Buses
- ☑ **Demand Response**
  - – 8 Paratransit Vehicles

- ☑ **Long Range Transit Plan**
- ☑ **Mobility Management Plan**

FNSB Project Overview

Paratransit Management

- **Demand Response**
  - **ADA Transportation Services**
  - AVL / MDC (Real Time Vehicle Tracking)
  - Panasonic ToughPad Ruggedized (Cellular Data Network)
  - Customer Facing Web Based Booking System
  - Notifications / Alerts System

Fixed Route Management

- **CAD / AVL Solution**
  - Vehicle Logic Unit (Cellular Data Network)
  - Panasonic Toughpad Ruggedized (In Vehicle WIFI Communications)
  - Automated In Vehicle Announcements
  - Automated Passenger Counters
  - Traveler Information Systems
  - Predictive Arrival System

FNSB Project Overview

☑ **Project Success Factors**

- **Project Budget**
- **Project Schedule**
- **Improve Operational Performance**
  - Vehicle Location
  - On Time Performance Monitoring
  - NTD and Management Reporting
- **Increase Ridership**
  - Passenger Tendencies
  - Route Planning & Configuration
- **Enhance Ridership Experience**
  - Customer Service
  - Meeting ADA Standards for Annunciation
  - In Vehicle Public WIFI Access
- **Enhance Ridership Information**
  - Real Time Information
  - Predicative Arrival Systems
  - LCD Monitors
  - Smart Phone Applications
  - Google Interface / Trip Planning System

FNSB Project Overview

☑ **Project Success Factors**
- **Partnership Approach**
  - *Open Line of Communications*
  - *Single Point of Contact for Project Deliverables*
    - *Agency Operations*
    - *Technology Company*
- **Technical Consultant**
  - End to End Project Support
- **Detailed Technical Specifications**
  - Design
  - Test
  - Pilot
  - Deploy
- **Technical Matrix**
  - Compliance / Delivery
  - Compliance w/ Modification
  - Non-Compliance or Alternate Solution
- **System Acceptance Processes**
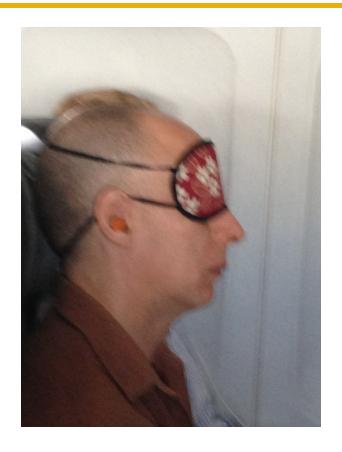 - Technical
  - Operational

Technical Specifications	Functional Specifications
Radio Data Communications	Voice and AVL Systems
Vehicle Area Network	(SAE) Standards (J1708, J1587, J1939)
Mobile Data Communications	Identical In-Vehicle Equipment
APC Controller	Operational Environmental Standards (-50° to 100°F)
Dynamic Message Signs	Compliance w/ ADAAG) Americans w/ Disabilities Act Accessibility Guidelines

☑ **Project Challenges / Lessons Learned**

- **Project Timeline**
  - *Clear Communications*
  - *Achievement of Milestones*
  - *Progress Updates (Minor & Major)*
  - *Agency & Vendor*
- **Integration Testing**
  - Environmental Conditions
  - Infrastructure Conditions
    - Local Area Network
    - Wide Area Network
- **Technical Requirements**
  - Practical Application / Interpretation
  - Expectations
- **Modification**
  - Enhancements
  - Defects

Listen, Inspect & Confirm
"Bad News does not get better w/ Age"

Idaho APTS Project Overview

- **Idaho Transportation Department**
  - *Dedicated Project Manager – Fred Kitchener (McFarland Management)*
  - *6 Agencies (5 Mixed Mode) 146 Vehicles*
- ***Idaho Agencies***
  - *Mountain Rides Transit Authority (Sun Valley)*
  - *Treasure Valley Transit (Boise, McCall, Mountain Home)*
  - *SMART, Moscow*
  - *Trans IV, Twin Falls*
  - *Pocatello Regional Transit*
  - *TRPTA (Targhee) Idaho Falls, Salmon*
- **Other Idaho Agencies (75 Vehicles)**
  - Valley Regional Transit (Boise Urban System)
  - City of Lewiston
  - Kootenai County Medical Center

Idaho APTS Project Overview

✓ Technology Overview

- *Paratransit Demand Response*
- *Fixed Route CAD /AVL*
- *Traveler Information System*
- *Real Time 511 Integration*

✓ *Idaho Agencies*

- *Mountain Rides Transit Authority (Sun Valley)*
- *Pocatello Regional Transit*
- *Treasure Valley Transit (Boise, McCall, Mountain Home)*
- *SMART, Moscow*
- *Trans IV, Twin Falls*
- *TRPTA (Targhee) Idaho Falls, Salmon*

✓ Other Idaho Agencies

- Valley Regional Transit (Boise Urban System)
- City of Lewiston
- Kootenai County Medical Center

Idaho APTS Project Overview

☑ **Technology / Operation Enhancements**

– *Customer Access On Line Trip Booking*

– *Facility Access On Line Trip Booking*

– *Multi-Agency Human Service Coordination*

– *Notification Systems (Reminders, Same Day)*

– *Volunteer Driver Program Management*

☑ *Funding Partnerships*

– *State of Good Repair*

– *Veterans Transportation Community Living Initiative*

– *Traditional Urban & Rural Capital Funding*

– *Coordination Statewide Basis Grant Approach*

☑ **Advancing Technologies**

– Integration w/ Grants Management System

– Automated Passenger Counters

– Automated Voice Annunciations

Q & A

☑ **Thank You – Alaska ITS**

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