



Fresno County Intelligent Transportation System  
Strategic Deployment Plan Update  
Transportation Technical Committee/Policy Advisory  
Committee Presentation



November 7, 2014

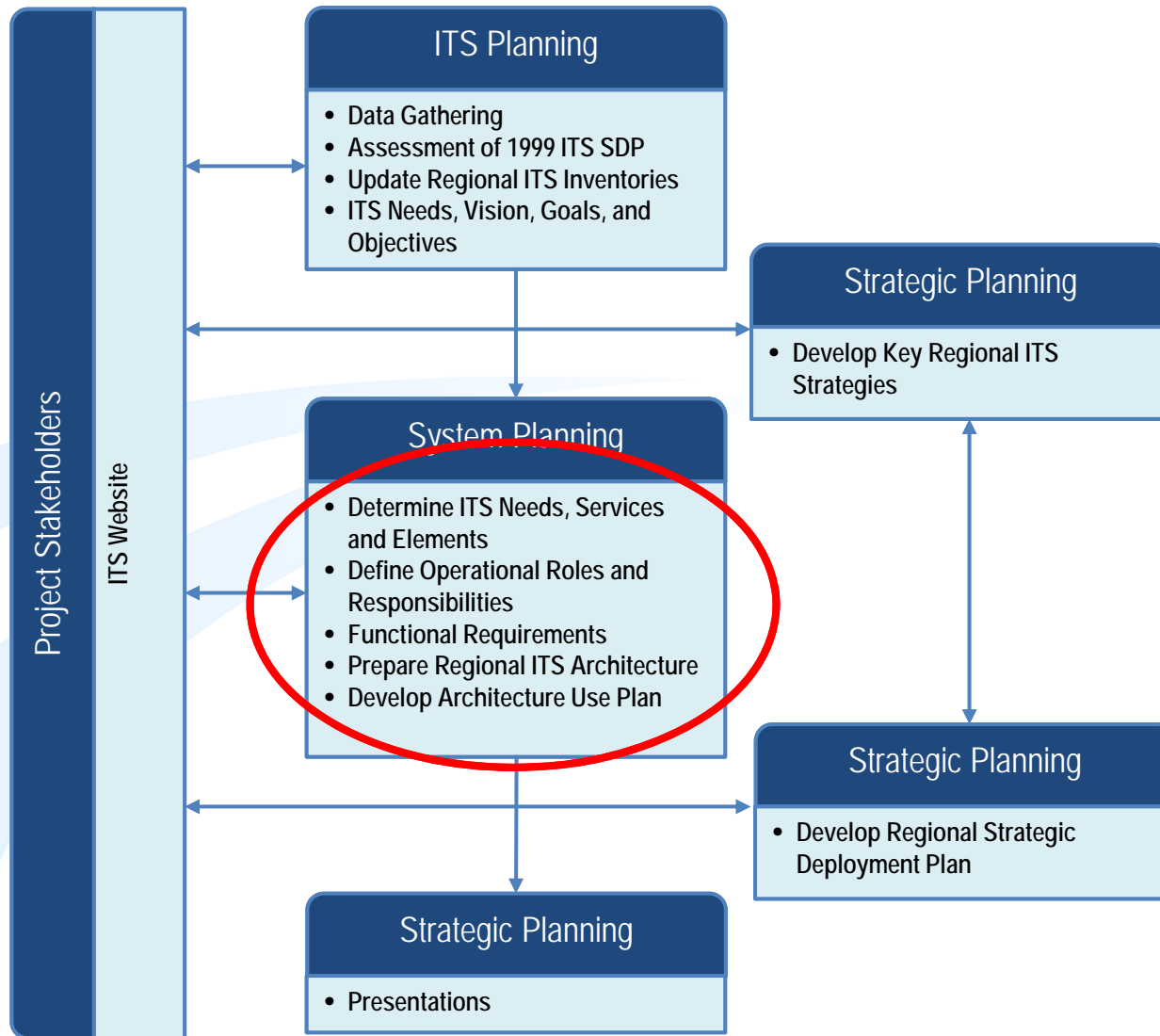


# Agenda



- ◆ **Project Overview**
- ◆ **Vision, Goals, and Objectives**
- ◆ **User Needs Prioritization**
- ◆ **Candidate ITS Solutions**
- ◆ **Schedule & Next Steps**

# Detailed Work Plan



# Proposed ITS Vision Statement



## ◆ Needs-based vision

*“The ITS vision for Fresno County is to enhance safety, mobility, efficiency, and transportation productivity for **all modes of transportation**, and to improve the quality of life and environment through the use of cost effective ITS technologies and systems.”*

# Fresno County Plan Update Vision



- ◆ **ITS competes for funding in RTP**
- ◆ **Provide Local Blueprint within County**
- ◆ **Improve I-5/SR-99 Corridor Mobility**
- ◆ **Facilitate East-West Mobility**
- ◆ **Update Regional Architecture and Standards**
- ◆ **Link Urban areas and address rural challenges**
- ◆ **Integrate new Transit Initiatives into Plan**

# Goals and Objectives That Support the Vision Statement



## ◆ Enhance Productivity

- ▶ To reduce the travel delay and increase the reliability and predictability of moving people and goods for all transportation users.
- ▶ To improve the ability of users and operators to perform travel planning using real-time travel information.

## ◆ Improve Safety

- ▶ To reduce the number and severity of motor vehicle collisions and associated injuries and fatalities.
- ▶ To improve the average response time of emergency services.

# Goals and Objectives That Support the Vision Statement



## ◆ Improve the Environment

- ▶ To increase the use of public transit and other shared ride alternatives.
- ▶ To reduce harmful emissions per unit of travel for all transportation modes.

## ◆ Increase Efficiency

- ▶ To reduce congestion and associated costs.
- ▶ To optimize the operational efficiency of goods and people movement on existing facilities.



# Goals and Objectives That Support the Vision Statement



## ◆ Create a State of the Art Transportation System

- ▶ To establish an ITS architecture that is open, receptive, and adaptable to meet future area architecture needs and is consistent to the maximum degree possible with national standards and architecture.

## ◆ Promote Sustainability

- ▶ To ensure technology is implemented in an environmentally responsible manner.
- ▶ To account for social and economic factors in transportation technology improvement decision making.



# Results of Needs Prioritization



1999 Fresno County ITS SDP	
ITS Need	Score
Lack of Integration/ Cooperation/ Coordination/ Common Communications	33
Signal Coordination (Needed)	22
Emergency Response Time	19
Air Quality	18
Funding	15
Lack of Traveler Information	12
Staffing	9
Red Light Running	7
GIS Mapping/Mapping Standards/Old Maps	5
Visibility Related Incidents (Fog/Dust)	3
Lack of Surveillance	2
Data Needs (Data needed for transportation planning & evaluation purposes)	1
Incidents (General)	1
Lack of Known Standards	1

2014 Fresno COG ITS Plan	
ITS Need	Score
Info exchange between Caltrans & local agencies	44
Signal timing/coordination	37
Timely incident information to travelers	21
Data collection on freeways/ expressways	21
Staffing (added by Stakeholders)	20
Congestion information to travelers	20
Remotely modify signal timing	18
Automatic Vehicle Location system (transit)	18
Data collection and archiving	18
Transfers between routes, providers and modes (transit)	16
Incident response	16
Speed enforcement at high risk locations (arterial)	15
Web-based trip planner (transit)	15
Improve ramp metering operations	15

# Potential Project Concept List



- ❖ **Communications Interties (links)/ Data Exchange Network (DEN)**
- ❖ **Signal Coordination Projects by City or Region**
- ❖ **Additional Changeable Message Signs (CMS) in Key Locations**
- ❖ **Implementation of 511 System for Valley/ Study of Regional Advanced Traveler Information Systems (ATIS) Project**
- ❖ **Expansion of Caltrans Traffic Operations Systems (TOS)**
- ❖ **Transit Management System Completion/Expansion with Transit Information System**

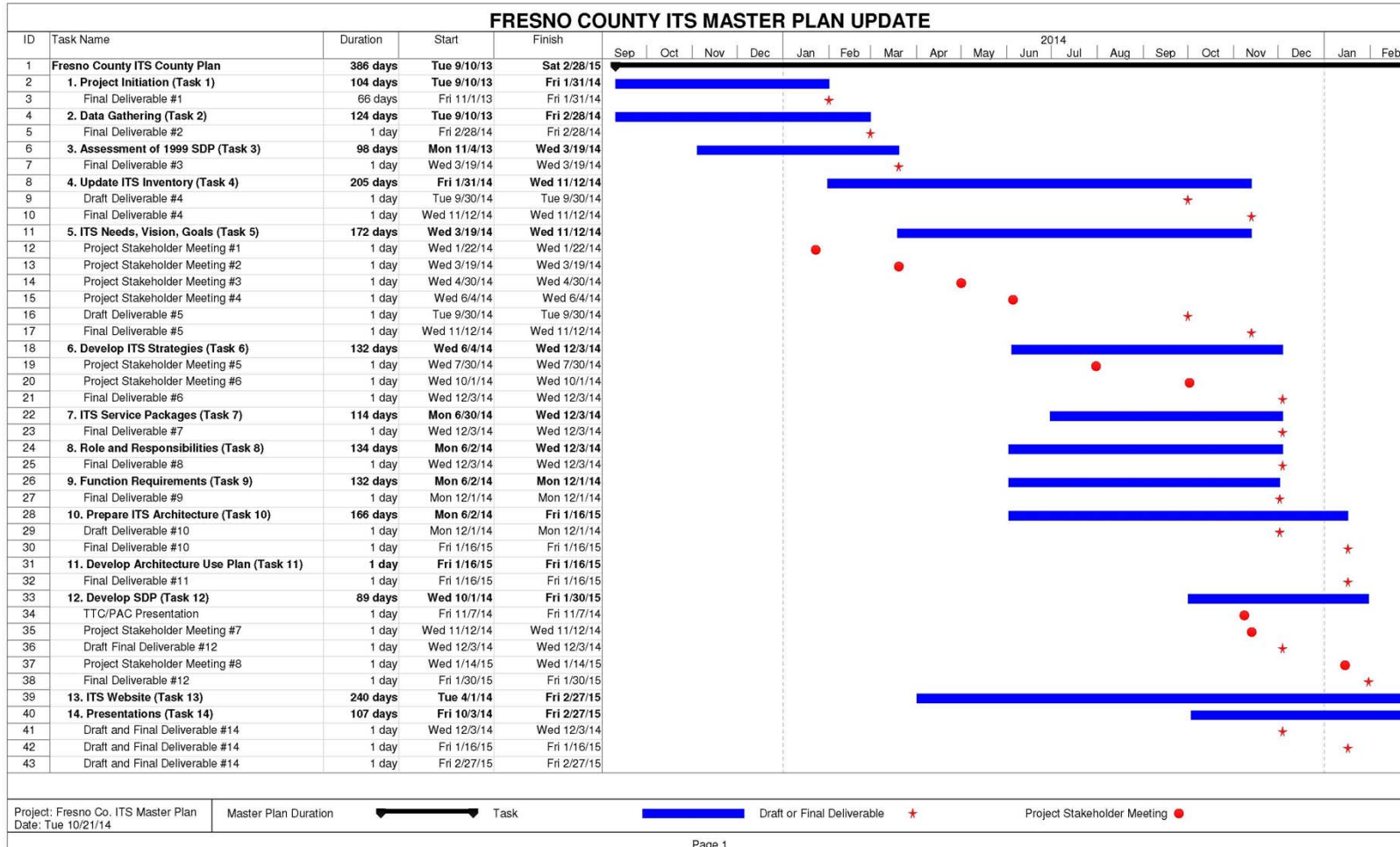
# Potential Project Concept List



- ❖ Demand-Responsive or Adaptive Control Systems
- ❖ Computer Aided Dispatch Integration
- ❖ Railroad Highway Interface Technology
- ❖ Common Fare Equipment Deployment
- ❖ Integrated Smart Corridors/Adaptive Ramp Metering
- ❖ Downtown Fresno Parking Management System
- ❖ Remote Surveillance and Incident Scene Management
- ❖ Alternate Route Plans Database/Website



# Updated Schedule



# Contact Information



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