

Kickoff Meeting

North Valley Regional ITS Architecture Project

July 29, 2004



Agenda

- Introductions
- Project Background
- Study Boundaries
- Stakeholder List Review
- ITS Inventory Update
- ITS Needs
- Web Site Introduction
- Next Meeting/Calendar Review



Project Background



What is ITS?

Intelligent Transportation Systems

**Uses electronics,
communications, and computers
in an integrated manner to
improve the efficiency and safety
of roadways.**



What is ITS?



Roadway
Mgmt



Traveler
info



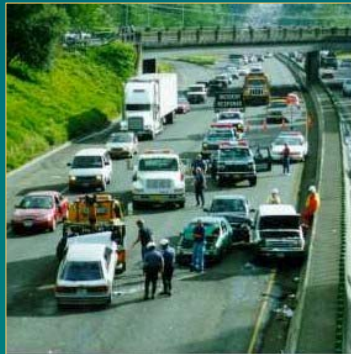
Rural
Systems



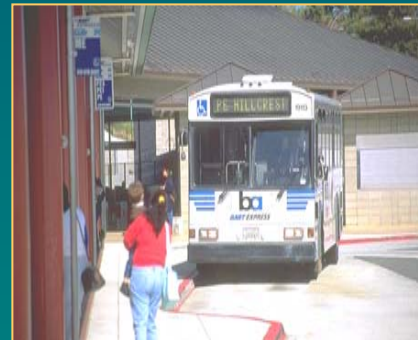
Goods
Movement



Vehicle
Control



Emergency
Management



Transit
Systems



Maintenance

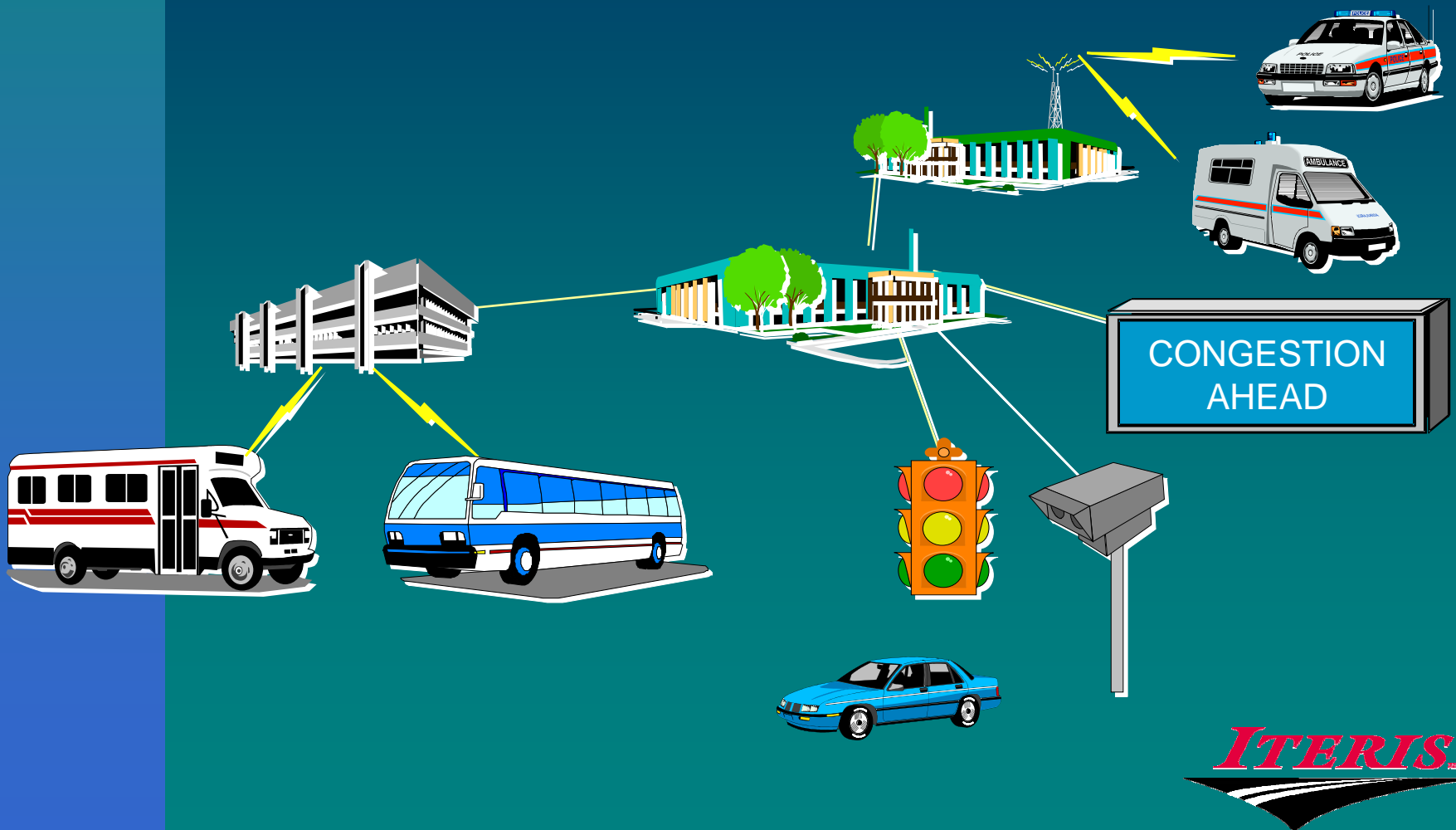


What is a Regional ITS Architecture?

- Provides a structured framework for deployment and integration.
- Helps to introduce and interconnect ITS services across the region.
- Identifies “gaps” in systems and services for communications.
- Assists in the development of cooperative agreements.



What is a Regional ITS Architecture?



What does a Regional ITS Architecture include?

- Description of the Region
- List of Stakeholders
- Current and Future ITS Elements
- Information Exchange between the ITS Elements
- Operational Concept for the ITS Services
- Functions of each of the ITS Elements
- Applicable ITS Standards
- Project Sequencing
- List of Agreements



What isn't included?

- Selection of Specific Technologies or Designs (technology neutral)
- Inventory Counts of Devices/Elements (or location)
- Confirmation that Specific Projects will be Funded or Method for Funding.



Why this project, why now?

- FHWA published a Rule (*ITS Standards and Architecture*) and FTA published a companion Policy to foster regional integration by requiring that all ITS projects funded from the Highway Trust Fund be in conformance with the National ITS Architecture and appropriate standards.
- “Conformance” is defined as using the National ITS Architecture to develop a regional ITS architecture tailored to address the local situation and ITS investment needs, and the subsequent adherence of ITS projects to the regional ITS architecture.
- Critical date for completion is April 2005
- Timing is good for adding future ITS:
 - BCAG is currently undergoing call for projects.



Project Objective

*Develop an ITS architecture
that is useful to the region
and in conformance
with FHWA/FTA guidelines.*



Project Work Scope

Task 0	Project Management
Task 1	Regional Description Oversight
Task 2	Stakeholder Identification Oversight
Task 3	Stakeholder Roles & Responsibilities
Task 4	Interagency Agreement Oversight
Task 5	System & Functional Requirements
Task 6	Interconnects & Information Flows
Task 7	Standards Identification
Task 8	Project Sequencing
Task 9	Maintenance Plan
Task 10	Final Report

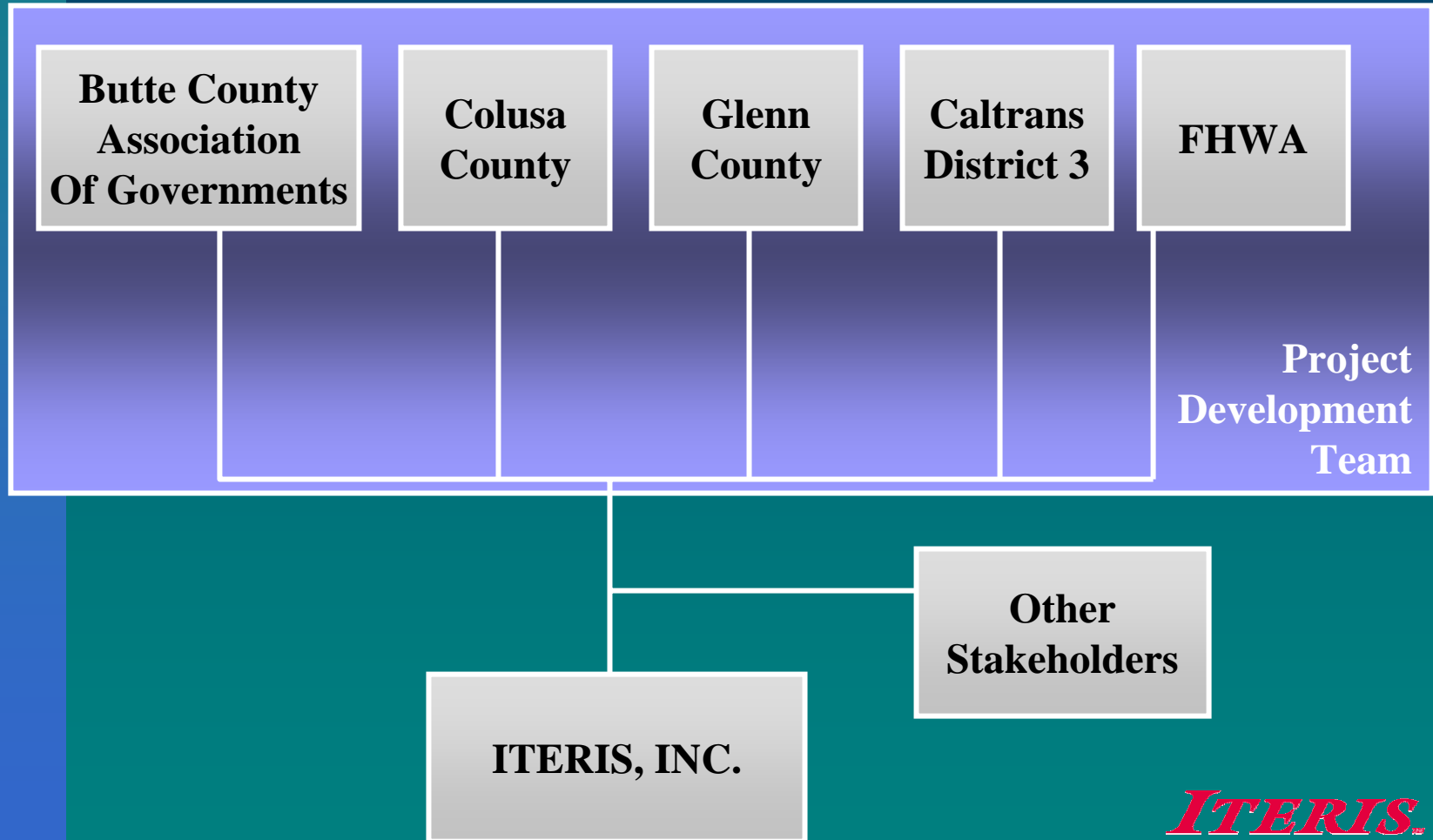


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Roles & Responsibilities



Roles and Responsibilities

■ Project Development Team

- Members = BCAG, Caltrans District 3, Colusa County, Glenn County and FHWA
- Duties = Perform project and consultant oversight

■ Stakeholders

- Members = All North Valley organizations with responsibility/interest in transportation
- Duties = respond to inquiries, participate in workshops, review deliverables, access website



Study Boundaries

Define the boundaries and service boundaries that the Regional ITS Architecture will include.



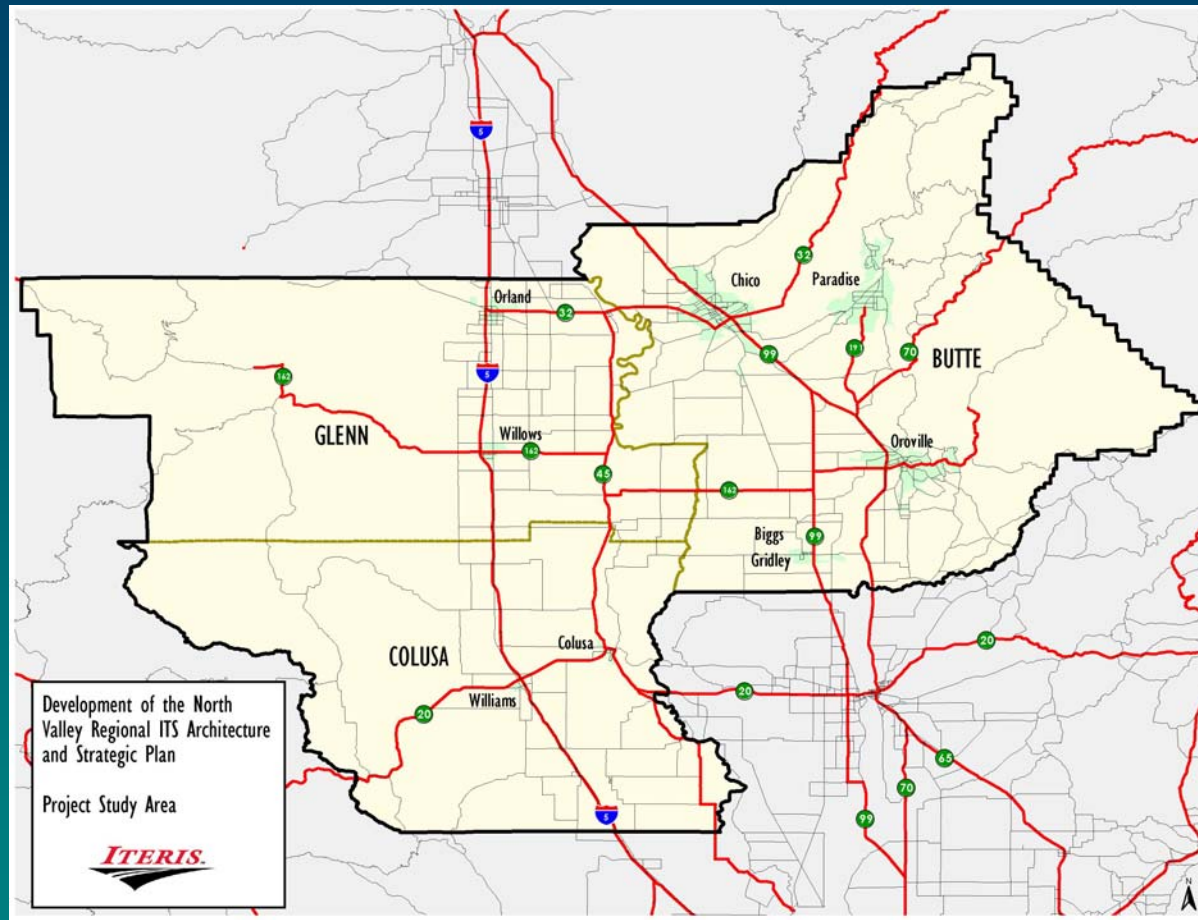
Task 1:

Region Description Oversight

- Use existing metropolitan planning area
- Include cities, counties, corridors
- Note adjacent architectures and states, if any
- Special conformity areas, such as for air quality
- Other interfacing ITS architectures



Map Review



Stakeholder List Review

Develop a list of stakeholders in the region who own/operate or plan to own/operate ITS elements in the North Valley Region.



Task 2:

Stakeholder Identification Oversight

- Glenn, Colusa, and Butte Counties
- BCAG
- Cities of Chico, Paradise, Oroville, Biggs, Gridley, Orland, Willows, Colusa and Williams
- Butte County Transit, Chico Area Transit, Oroville Area Transit and others
- Emergency Service Agencies
- Caltrans District 2 and District 3
- Caltrans Headquarters
- California Highway Patrol
- Federal Highway Administration
- Federal Transit Administration
- Chico State University



Candidate Stakeholders

- Traffic/Transportation Agencies (cities, counties, state, etc...)
- Transit Agencies
- Planning Organizations
- Public Safety Agencies – Emergency Services (fire, police, CHP, etc.)
- Activity Centers (University, etc.)
- Other....



Stakeholder Discussion

- Traffic/Transportation Agencies
 - Regional
 - Butte County
 - Colusa County
 - Glenn County
- Transit Agencies
- Planning Organizations
- Public Safety Agencies Emergency Services
- Activity Centers (University, etc.)
- Other....



Stakeholder Review & Communications

- Review Stakeholder Lists for each County and determine if we need to add others from traffic, transit, emergency management, etc...
- Discuss email as a primary means of communication with stakeholders
- Discuss other means of communications.



Regional ITS Inventory

Developing a database that reflects existing and planned ITS systems throughout the region.



Task 3:

ITS Inventory

- Include Existing and Planned ITS
- Focus on “Centers”
- Collect System Name, Associated Stakeholder(s), Description, Status, Field Element Types, External Data Exchange Interfaces



ITS Inventory

- Existing systems map to the following National ITS Subsystems:
 - Centers: Traffic Management, Emergency Management, Transit Management, and Information Service Provider
 - Field: roadside ITS located at or along the roadside
 - Vehicles: Private, Emergency Vehicles and Transit Vehicles
 - Travelers: Personal Information Access

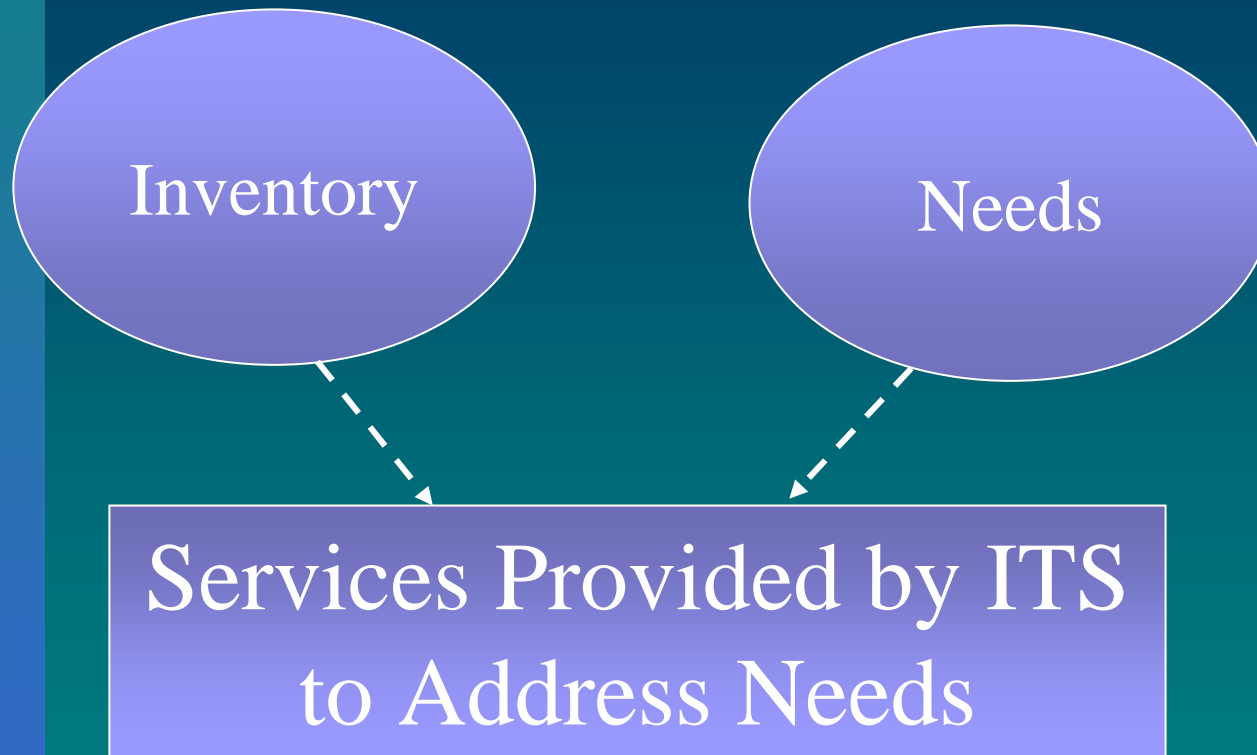


ITS Needs

Review of relevant plans, studies, reports from inventory and stakeholder needs to determine regional ITS needs.



Task 3: Needs Analysis



First Step in Determining What the Systems Should Do Tomorrow That They Don't Do Today

Needs Analysis

- Regional Needs are usually Previously Documented in Strategic Plan, such as:
 - Increasing Congestion
 - Lack of Traveler Information
 - Lack of Real-Time Traffic Info
 - Transit Service Coordination
- We will review those needs and match ITS services with them for the needs.



Web Site Introduction

We will introduce the Web Site at the ITS Training in August.



Web Site Contents

- Home (purpose, what's new, navigation, for further info)
- Background
- Deliverables
- Meetings
- Miscellaneous
- Contacts
- Links



Web Site URL

www.iteris.com/northvalleyITS



Deliverables

- Deliverables are delivered in draft form to the PDT for review and comment.
- PDT recommendations will be used for the modification and then the documents will be sent to the Stakeholders.
- Stakeholder and PDT comments will be dispositioned and released. The deliverable itself will not be revised and re-circulated. Instead,
- The dispositioned stakeholder comments will be reflected in the Final Project Report.



Next Meeting/Calendar Review



Upcoming Deliverable Schedule

Deliverable 1 Task 1	Draft Tech Memo Regional Description	July 29, 2004
Deliverable 2 Task 2	Draft list of Stakeholders for outreach	July 29, 2004
Deliverable 3 Task 1	Final Technical Memo Regional Description	August 13, 2004
Deliverable 4 Task 2	Report #1 containing summary of Task 1 and 2 activities	August 19, 2004
Deliverable 5 Task 0	Introduction to ITS Training	August 19, 2004
Deliverable 6 Task 0	Project Web Site	August 19, 2004



Workshop/Meeting Calendar

Introduction to ITS	August 19
Workshop #1: Inventory/Needs/Vision/Ops Concept	September 22
Project Status/ Report Meeting	November 11
Workshop #2: Functional Requirements, interconnects & Flows	January 13
Workshop #3: Project Sequencing and Maintenance Plan	March 17



Questions? Answers?

Any questions can be directed to

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Marc Porter (714) 780-7712

Iteris Principal



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