



# 210 CONNECTED CORRIDORS PILOT

## WORK PLAN DISCUSSION

8/14/2013

# I 210 Corridor Management Pilot - Work Plan

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- **Plan the Pilot**
  - ▣ Define and obtain agreement on the goals, metrics, participants and project management items
- **Implement Effort**
  - ▣ Implement the processes and systems needed to manage the corridor
- **Do the Effort**
  - ▣ Manage the corridor to meet institutional, performance and project management goals
- **Evaluate the Effort**
  - ▣ Determine if goals were met, review processes, make recommendations

# Resources to assist us

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- ❑ **USDOT/Ca System Engineering Process**
  - ❑ <http://ops.fhwa.dot.gov/publications/seitsguide/index.htm>
  - ❑ Used by both SANDAG and DART
- ❑ **2012 – ICM Implementation Guide and Lessons Learned**
  - ❑ Developed by USDOT
- ❑ **Interactions with SANDAG**
  - ❑ Documents
  - ❑ Advice
  - ❑ However while there is overlap in the efforts there are important differences
- ❑ **USDOT**
  - ❑ ICM Implementation Assistance
- ❑ **Others as needed**

# The Big Questions – Leadership and Money

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## □ Leadership

### □ I-210 Connected Corridors Pilot

- Executive Leadership – D7, LAMetro, HQ,
  - Responsible for ensuring overall stakeholder support,, overall feasibility and supplying resources
  - We need discussion on this
- Project Leadership – Project Manager – D7
  - Schedule meetings to discuss activities, status, action items, and risks;
  - Ensure that guidance is made available to those stakeholders that are not familiar with ICM; and
  - Ensure that all stakeholders understand and are comfortable with the project process.

### □ Connected Corridors State Wide Effort

- Executive Leadership – HQ
- Project Leadership – HQ, PATH

# The Big Questions – Leadership and Money

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## □ Money – I 210 Pilot

### ▣ Immediate resources

- Planning effort – Can we use current resources

### ▣ Implementation Phase

- We are not sure yet what we are doing so hard to ask for explicit funding
- Know we will need some money – Grease, sensors/controllers, payroll, other items
- Some reusable components will be provided by HQ/PATH

### ▣ Sources of money

- LAMetro
- D7 Budget
- HQ Funds

# The Role of PATH

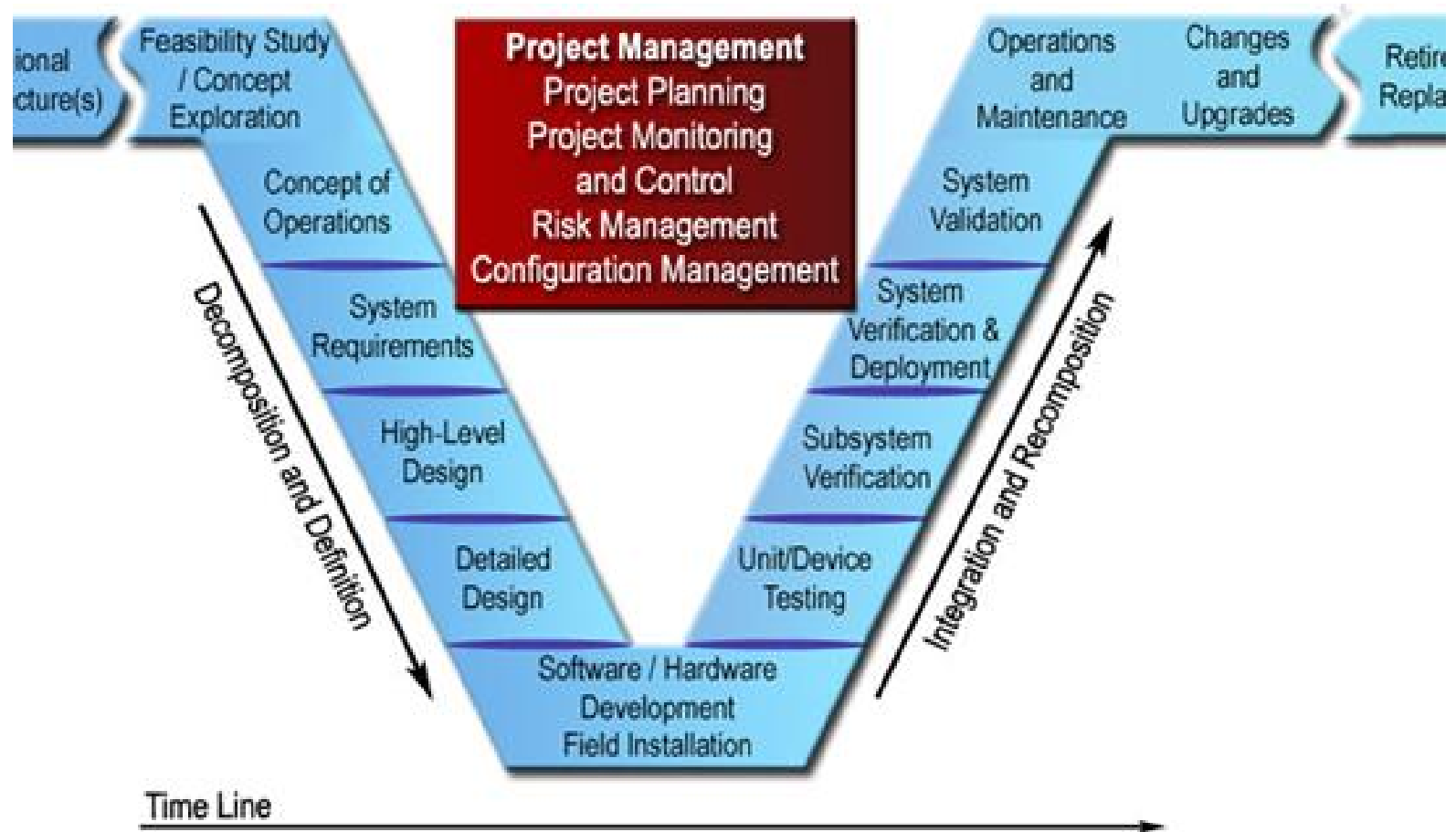
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- **Planning and implementation of reuseable components of Connected Corridors**
  - Documents, knowledge base
  - Methods and Procedures
  - Decision Support system
  - State wide messaging and communication
  - Monitoring of other ICM efforts to ensure best of breed methods are utilized
  
- **Assist stakeholders and PM with I 210 Pilot**
  - Education
  - Outreach
  - Systems Engineering
  - Decision Support Systems
  - General support
  
- **Assist with Evaluation of Pilot**
  - Analysis and recommendations

# System Engineering

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- <http://ops.fhwa.dot.gov/publications/seitsguide/index.htm>
- **Technical Processes**
  - 11 Steps
  - Done sequentially
  - Each step will have internal iterations and sub steps
  - From requirements definition through system retirement
- **Project Management Processes**
  - 4 activities
  - Done in parallel for the entire project life time
  - Continual refinement and expansion of content
  - Planning, Project Monitoring, Risk Management, Configuration Mgmt





# Guidance from USDOT

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- **2012 – ICM Implementation Guide and Lessons Learned**
- **Phases**
  - Get Started
  - Establish Goals
  - Plan for Success
  - Specify and Design
  - Build and Test
  - Operate and Maintain
  - Retire/Replace
- **For us – Recommend we work on completion of first two phases**

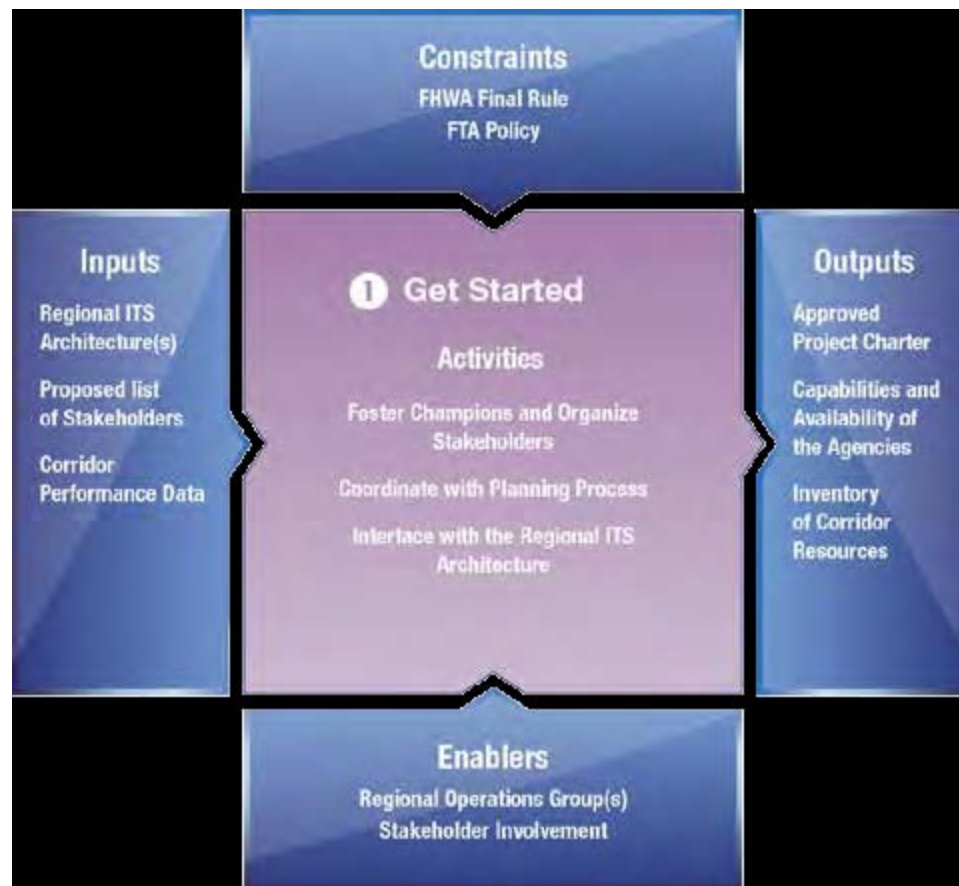
# Get Started from USDOT

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1 Foster Champions  
and Organize  
Stakeholders

2 Coordinate with  
Planning Process

3 Interface with the  
Regional ITS  
Architecture



# Establish Goals from USDOT

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- 1 Explore the ICM Concept
- 2 Develop Goal, Measureable Objects and Data Collection Needs
- 3 Analyze System Problems and Identify System Needs
- 4 Conduct Feasibility Assessment
- 5 Identify Development Support Resources



# What is a work Plan

## □ **Tasks**

- ▣ Deliver the Institutional Cooperation
- ▣ Deliver the System Engineering Documents
- ▣ Deliver the ongoing Project Mgmt Processes
- ▣ Additionally deliver education/training

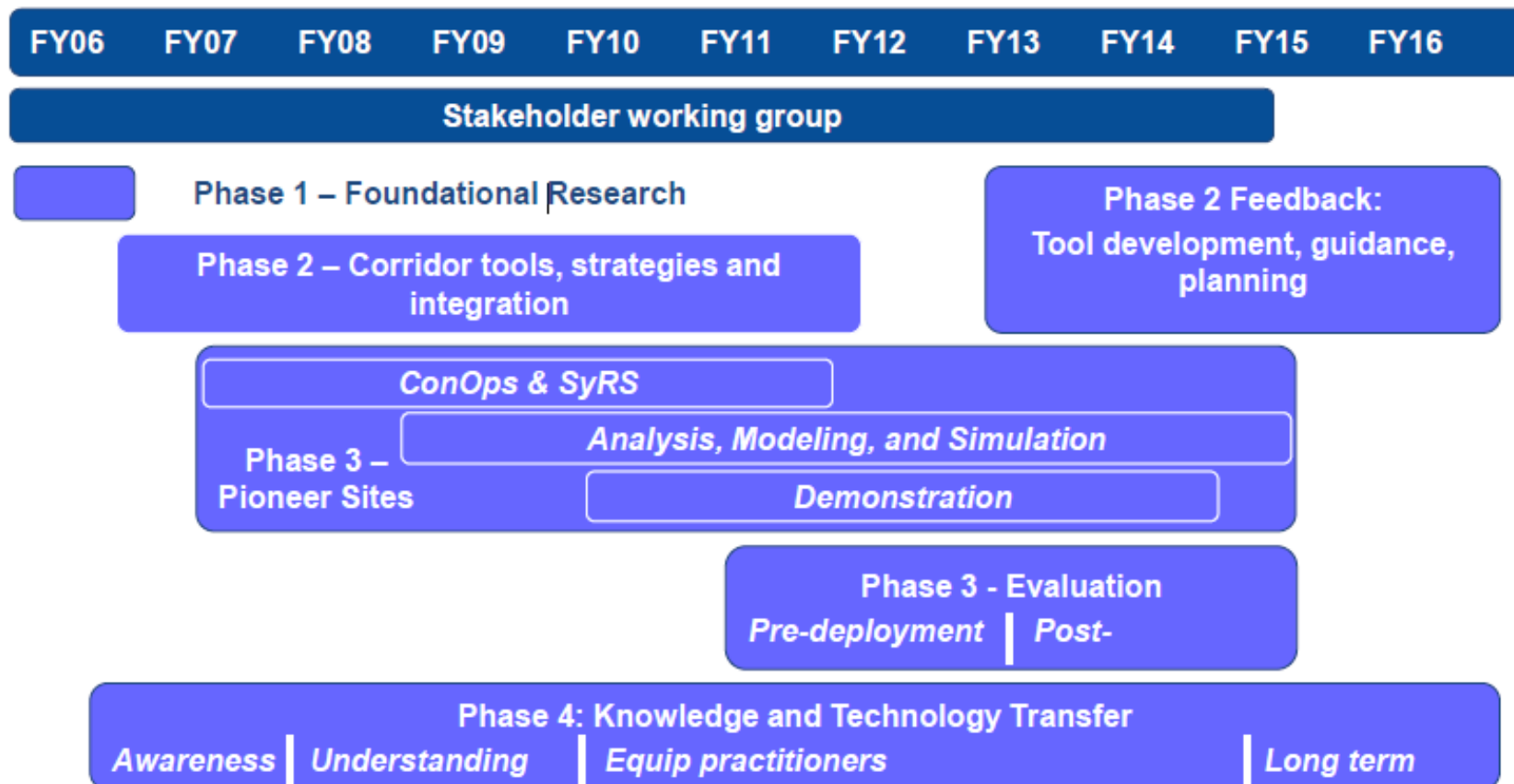
## □ **Timelines**

- ▣ 1 Year for first release – Aggressive but we should try??

## □ **Resources**

- ▣ D7, Metro, Cities, HQ, PATH, others

# USDOT ICM Initiative



# System Engineering Documents

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- **Using the Regional ITS Architecture**
- **Feasibility Study/Concept Exploration**

# Project Management

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- **Documents**
  - Project Plan
  - Systems Engineering Management Plan
  - Risk Management Plan
  - Configuration Management Plan
  
- **Processes**
  - Project Tracking
  - Project Reviews
  - Risk Management
  - Configuration Management

# Institutional Cooperation

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- **Identify the Institutions**
- **Understand them in detail**
- **Plan for establishing trust, education and common vocabulary**
- **Initial meetings, determine additional personnel needing inclusion**
- **Lots of follow up meetings to build the understanding and trust**
- **Public announcements where stakeholders all agree to work together**
- **Internal belief that it really is working**
- **Transition to actual building of concept of operations**
- **Continue to maintain proactive communication**



# Education and Training

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- **Locate and track other ICM Efforts**
- **Synthesize and summarize results**
- **Educate participants on concepts**
- **Train participants on the methods and tools**
- **Communicate to external stakeholders (US DOT, industry, etc)**
- **Maintain website and social media**
  - ▣ Educational content
  - ▣ Outreach related content

# One way to organize our teams and efforts

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- **Outreach Expertise**
  - ▣ Responsible for institutional cooperation
  
- **System Engineering Expertise**
  - ▣ Definition of requirements and metrics
    - Responsible for creation of documents
  - ▣ Data gathering and analysis
    - Responsible for providing content and analysis
  
- **Management Expertise**
  - ▣ Responsible for management processes
  - ▣ Responsible for funding and resource allocation
  
- **Education and Training Expertise**

Thank you....

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Questions?

Thoughts?