Integrated Corridor Management

2012 ITS American Annual Meeting
ICM Workshop, May 23
From Research to Results: ICM Knowledge and Technology Transfer
Knowledge and Technology Transfer

Mission:
Equip corridor managers and operators across the country to implement and use ICM.
U.S. DOT ICM Program

- Research, demonstrate and evaluate ICM
- Provide necessary tools, knowledge, and guidance for ICM
Knowledge and Technology Transfer

KTT Resources Coming Spring 2012:
- ICM Implementation and AMS Guides
- Early Adopter Workshops and Webinars
- ICM and Transportation Operations Information Briefs

Resources Available Now in the ICM Knowledgebase:
- Pioneer site CONOPs and Requirements Documents, and Lessons Learned
- AMS Resources and Findings
- Data Gap Technical Resources
- Magazine Articles and Outreach Materials

http://www.its.dot.gov/icms/knowledgebase.htm
COMING JUNE 2012

ICM IMPLEMENTATION GUIDE AND AMS GUIDE

FOR PROGRAM MANAGERS
ICM Guidance Features

• Step-by-step Guidance
  – with estimates on relative levels of effort based on experience
• Multidimensional Guidance
  – Technical, Institutional, Programmatic, Operational
• Example Products and Worksheets
• Pitfalls to Avoid and Tips
  – Based on Lessons-Learned from the Pioneer Sites
• Testimonials from Implementers
• Examples (from the Pioneer Sites)
• Pointers to Related Resources~
  – National ITS Architecture, Systems Engineering or related initiatives such as FHWA’s Planning for Operations resources
  – Traffic Analysis Toolbox, of which the ICM AMS Methodology is now a part
ICM Process

Continuous Improvement (the “Virtuous Circle”)
ICM AMS Process

Conduct Analysis Modeling and Simulation of ICM Strategies and Scenarios of Interest

ICM AMS Approach Worksteps

1. Develop Analysis Plan
2. Develop Data Collection Plan and Collect Data
3. Model Setup and Calibration
4. Alternatives Analysis and Documentation
5. Continuous Improvement
Extensive Stakeholder Engagement

• 40 stakeholders invited to review AMS Guide
• Mix of perspectives
  – Geographic diversity
  – Corridor representation
  – Multimodal representation
  – Range of experience with ICM:
    • Experienced Pioneer Sites; early adopters; and “interested” agencies
  – Range of implementation roles
    • Program/Project Managers, technical practitioners/engineers; planners; vendors
• 145 comments received and addressed
ICM WORKSHOPS

COMING SPRING/SUMMER 2012

ICM KNOWLEDGE AND TECHNOLOGY TRANSFER WORKSHOPS
Workshop Outcomes

• Participants develop a full understanding of the concepts contained within the Guide(s) and ability to apply concepts in the Guide

• Genuine buy-in/commitment from all key stakeholders to the ICM project vision, grounded in a realistic understanding of scope/effort.

• Stakeholder willingness to ‘stay the course’ and develop the ICM products to the appropriate level of detail.

• All stakeholders contribute to effective use of meeting time, and commitment to action plan
Workshop Outputs

• Progress (Inputs/Agreements/Framework) towards an ICM milestone or deliverable of interest to the host location
• Action Plan
• Feedback/input to enhance workshop design and KTT materials
Building Blocks

- Information Sharing
- Tool or Technique Demonstration
- Learning Opportunity or Activity
- Product Development Activity
- Learning Assessment
Agenda Elements

• **Introduction** & icebreaker module

• **Content delivery** on specific topics, with Q&A, and percentage of time reserved for applied learning

• Targeted application of learning through facilitated progress on an ICM milestone interest (i.e., CONOPS document)

• Development of **action plan** to establish next steps towards their initiative

• Stakeholder input/**feedback** regarding workshop and KTT needs
Workshop Elements

• Learning aids such as large-sized visuals of key process pictures or flash cards that summarize critical information

• Tools and techniques to apply principles contained in the Implementation Guide

• Direct access to implementers for first-person stories / lessons

• Example products, worksheets

• Fun applied exercises applying tools and techniques

• Collaborative tools
Proposed Workshop Packages

1. Getting Started/Introduction to ICM
2. Concept of Operations (ConOps)
3. System Architecture/Requirements
4. Analysis, Modeling and Simulation
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