

# Developing and Using the Concept of Operations in Transportation Management Systems

## Project Purpose

To provide guidance to transportation professionals as they seek to develop and use the concept of operations throughout the lifecycle of a transportation management system.

The document will address:

- Benefits
- Development process
- Use throughout system lifecycle

## Motivation

The concept of operations serves as the foundation of the systems engineering process. Experience in TMSs, as well as other complex information technology-based systems, has shown that successful systems use the systems engineering methodology throughout their lifecycles. Currently, little detailed guidance exists for TMS professionals to consult as they develop and use concepts of operations.

## Expected Influence

The document resulting from this project is expected to influence TMS professionals in the following ways:

- Clearly document the benefits of concepts of operations.
- Provide a comprehensive guidance document for individuals with varying levels of experience in systems engineering.
- Provide concrete TMS examples to supplement standard best practices.



## Key Topics

Key technical topics include:

- Role of concept of operations in systems engineering
- Elements of the concept of operations
- Activities necessary to develop concepts of operations and requirements
- Role of stakeholders in developing concepts of operations and requirements
- Use of concept of operations
- Technical expertise required to develop concepts of operations and requirements
- Uses of concepts of operations and requirements during the system development and use lifecycle stages
- Using the concept of operations to support planning
- Resources available to TMS professionals



## Project Milestones

### Annotated Outline

- Initial – September 2003
- Draft – December 2003
- Final – April 2004

### Draft Document

- Chapters delivered incrementally between May – July 2004

### Other Products

- Delivered in Fall/Winter 2004

### Project Completion

- December 31, 2004

## Project Deliverables

- Guidance Document
- Project Fact Sheet
- Subject Presentation
- Tri-Fold Brochure
- Primer
- Distribution Plan

## Contact Information

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