NCHRP Project 03-126
Transportation Operations Manual

Council on Highways & Streets Meeting
October 6, 2019

Tony Kratofil, PE
Vice-Chair, Committee on Transportation Systems Operations
Project Scope

Examine existing guidance/documentation

Identify gaps & logical sources of knowledge to fill them

Determine balance between explanatory material & effective practices

Conduct research & outreach as basis to draft the topic content

Perform an internal quality/completeness check

Develop/consider graphical elements to enhance communication of the concepts
Content

Strategic Concepts

• Foundational concepts
  • Definitions
  • Functions
  • Performance potential
  • Business case

Programmatic Processes & Arrangements

• Formal program:
  • Business and technical
  • Organizational
  • Workforce configuration
  • Collaboration

Project Development

• Relationships to project development process
  • Funding
  • Exceptions to standards

Tactical Elements

• TSMO strategies in response to:
  • congestion
  • safety
  • environmental impacts

Industry & Technology Trends

• Address rapid change:
  • new technologies
  • evolution of institutions
  • new business models
Presentation

Visibility
• How will the potential audiences be aware of the Manual?

Accessibility / Utility
• Media for the Manual:
  • paper document
  • electronic document
  • interactive website
  • combination?

Customizable
• How will the Manual be searchable and customizable?
  • easy to find material
  • answer key questions

User Friendly
• Easy to navigate
  • Support user preferences
  • How will the Manual be presented?

Sustainability
• How will the Manual material be updated or augmented?
Stakeholder Input

• Executive level
  ▪ Greg Johnson and Paula Hammond support

• CTSO and Panel meeting
  ▪ Joint meetings
  ▪ CTSO included in decisions

• Outreach at industry events
  ▪ TRB, AASHTO, ITE, etc.

• AASHTO Technical Committee on Geometric Design
  ▪ Coordination with Green Book update (version 8)
Coordination, Collaboration, Integration

• Green Book update
• Highway Capacity Manual
• Highway Safety Manual
• Other documents, efforts as identified
Important Cross-Overs with Green Book Update

- Performance-based design
  - Address needs
- Importance of context
- Consideration of all modes
  - Freight
  - Transit
  - Peds, bikes, etc.
Schedule

Update Research Plan
Oct 2019

Draft Content Sections & Communication Plan
Sep 2020

Draft Manual Distributed for Comment
Jan 2021

Apr 2020
Literature Review

Dec 2020
Presentation & Graphics

Mar 2021
Plan Update
Roadmap Update
Project Report

Plan Update
Roadmap Update
Project Report