

Model Planning Approaches for Freight

Jessica Guo (PI), Ernie Wittwer





OBJECTIVES

- To understand the state of the art of freight planning approaches as well as best practices at the state and metropolitan levels in the U.S.
- To develop a guidebook to help planning agencies more effectively integrate freight interests into their longrange planning process



TASKS COMPLETED

- Review federal guidance and requirements on freight planning
- Review existing publications on successful practices of freight planning
- Develop and conduct online survey of current practices
- Summarize survey findings*
- Conduct interviews of best practices

^{*} See Next Steps



CURRENT PRACTICES SURVEY



FREIGHT PLANNING SURVEY

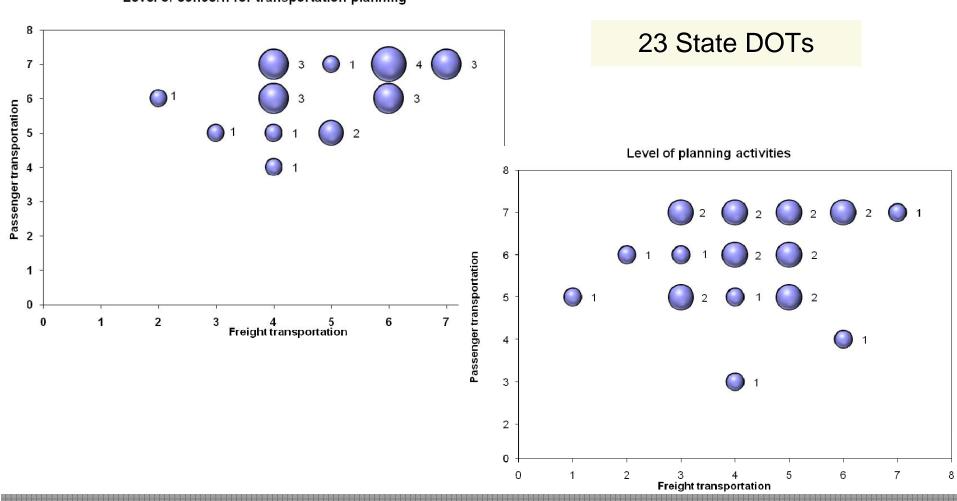
PLANNING PRACTICE OVERVIEW

assenger ransportation reight	•			Intermediate	Somewhat High	High	Very High	
	1	C	C	0	0	r	0	
ransportation	c	c	6	c	c	c	c	
hich of the fo		ig type	es of models	does your ager	ncy use to he	lp plar	ning for pa	ssengers and freight
Life cycle co	st mod	es						
Land use for	recastin	ng mod	els					
Travel dema	and fore	ecastino	g models					
Air quality in	mpactr	nodels						
Benefit-ost	analys	is tools	(e.q. STEAM))				
None of the	above							
Other - Plea	se Spe	cify						
hen did your	agenc	y last:	complete a l	ong range plan	(LRP)?			
	Air quality in Benefit-cost None of the Other - Plea	Air quality impact of Benefit-cost analys None of the above Other - Please Spe	Air quality impact models Benefit-cost analysis tools None of the above Other - Please Specify	None of the above Other - Please Specify	Air quality impact models Benefit-cost analysis tools (e.q. STEAM) None of the above Other - Please Specify	Air quality impact models Benefit-cost analysis tools (e.q. STEAM) None of the above	Air quality impact models Benefit-cost analysis tools (e.g. STEAM) None of the above Other - Please Specify	Air quality impact models Benefit-cost analysis tools (e.g. STEAM) None of the above Other - Please Specify



PLANNING CONCERNS

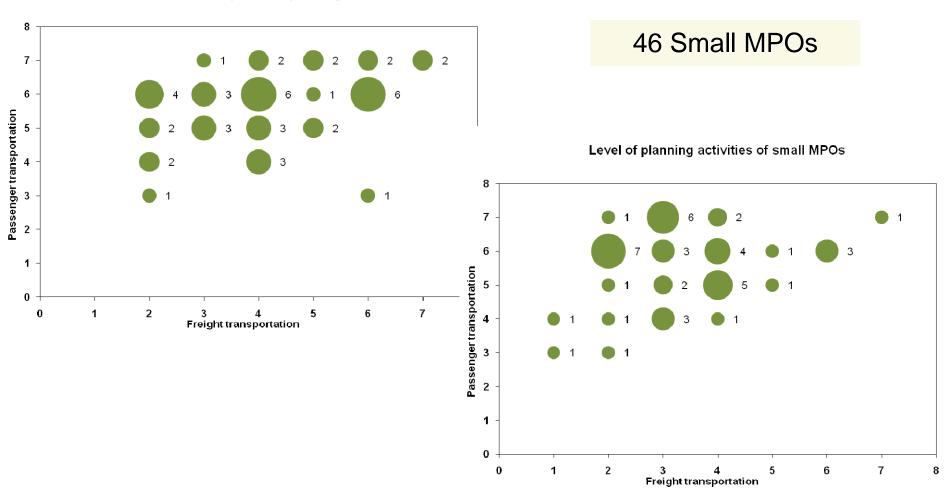
Level of concern for transportation planning





PLANNING CONCERNS

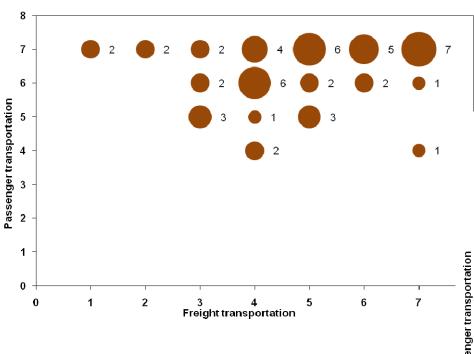
Level of concern for transportation planning of small MPOs





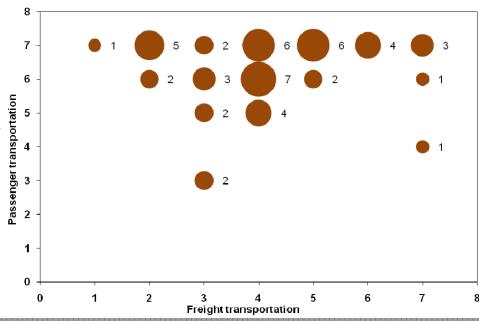
PLANNING CONCERNS

Level of concern for transportation planning of large MPOs



51 Medium/Large MPOs

Level of planning activities of large MPOs





FREIGHT CONSIDERATIONS

23 State DOTs

Table 7: Freight consideration

Freight consideration	Frequency	Percent
Explicit incorporation of freight in the planning goals, objectives, and policies	17	73.9
Evaluation of current freight movement pattern	15	65.2
Evaluation of projected freight activities and needs	13	56.5
Identification of freight needs and deficiencies	12	52.2
Identification of strengthening and/or maintenance needs for freight-related facilities	10	43.5
Inventory of freight related facilities and generators	9	39.1
Identification of activities for outreach to the freight community	8	34.8
Identification of freight-specific improvement projects and programs	7	30.4

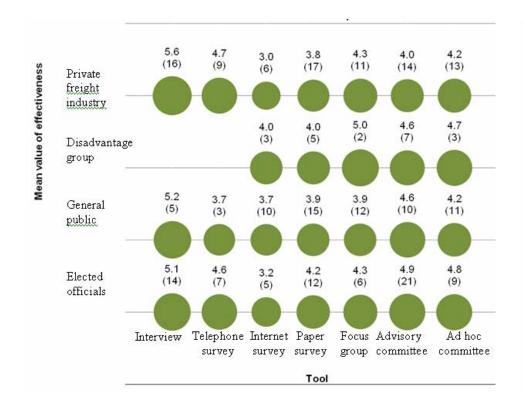
NOTES: Percents do not total 100% since categories are not mutually exclusive

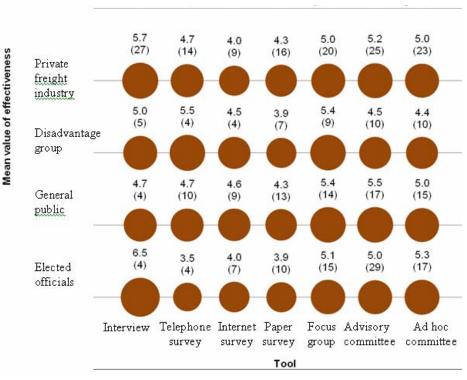


PUBLIC INVOLVEMENT TOOLS

46 Small MPOs

51 Medium/Large MPOs







TASKS NEAR COMPLETION

- Develop a guidebook to describe effective freight planning tools and strategies for state DOTs and MPOs
- Develop audio Power Point presentations that provide an overview of the guidebook.



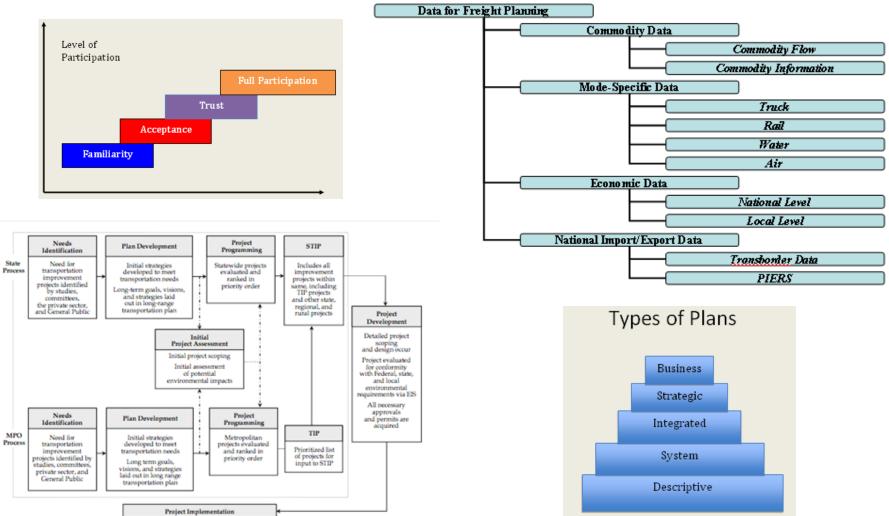
GUIDEBOOK OUTLINE

- Introduction
 - Preparing to plan
 - Why do planning?
 - Types of plans
- Industry involvement
 - Stages of involvement
 - Outreach efforts
 - Ongoing efforts
- Public involvement
 - Outreach tools
 - Advisory committees

- Performance measures
 - Definitions
 - Use in monitoring
- Freight Data
 - Needs
 - Sources
 - Integration
- Analysis
 - Demand forecasting
 - Economic analysis
- Plan Implementation



GUIDEBOOK SNIPPET



Source: NCHRP 112



NEXT STEPS

- Final audit on survey responses
- Complete guidebook development
- Complete audio Power Point presentations
- Review and revise final products