Bicycle Switching Model Development Update

CMAP Bicycle and Pedestrian Task Force – 12/14/2016

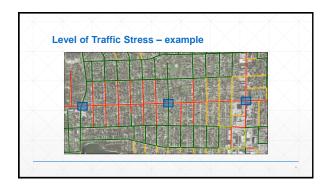
Model overview

- Identify trips that may be affected by the facility improvement
- Determine the difference in travel costs due to the improvement
- Estimate the probability of an auto trip switching to bicycle mode



Auto ti	rips eliminated				
VAAT -	eduction				
VIVIT					
	Description 43nd St Access Bridge to Lakefront Tred	Zone 225	Annual Auto Trips Eliminated An	yual VMT Climinated 2,241	
	Militaryisse and Lake Av Multi-use Path	468	1,430	3,220	
	Old Orchard Rd from Harms Rd to Woods Dr	522	71	2,000	
	US 14/Northwest Hery from Hough St to Lake Zurich Rd	982	294	735	
	Sycamore Av., Walnut Av and Unmarked Street Bike Lanes	381	51	145	
	Chestrad Av Multi-Use Path	671	61	26	
	Golf Rd Path from Roosevelt SIV to Ring Rd	622	152	356	
	3. 19/3/ving Park Rd from Schaumburg Rd to Park Blv	323	183	356	
	Flag Creek Bicade Corridor	619	1,237	4,247	
	108th Av Trail Connection	717	2,393	7,941	
	Ridgeland Av from College Dr to 139th St	702	183	729	
	Dike to Netro	736	821	2,098	
	North Aurore Rd Underpass at CN/EI&E	1310	274	960	

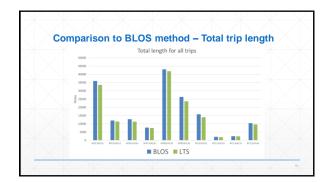
 Segment 					
- Physica	ly separated bikewa	iys: LTS = 1			
- Bike lan	es vs. mixed traffic				
 Intersecti 	on approaches				
- Lack of	egion wide data				
Crossing					
	ed vs. unsignalized				
X					
	Peter G. Furth, and Hilary Ni	xon. Low-Stress Bicycling an	d Network Connectivity. Mine	ta Transportation Institute.	
San Jose, CA. May	2012				

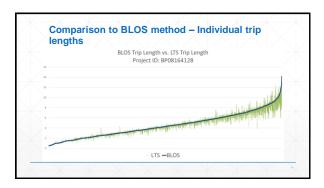


		c Stress - n	noun	cati	Ulia
fic v	olume – PFN	ALTY			
stree	et – BONUS				
	T	ST NAME	Lavas		
	LINK_ID		BLOS	LTS	LTS_Score_v3
		HANEY RD	A	1	1.015646
	_				
	948704145		A	1	0.5
	19868874	WAUSAU AVE	A	1	1.023563
	19868874	WAUSAU AVE S 84TH AVE		1 1	
	19868874 19852836		A	1 1 2	1.023563
	19868874 19852836	S 84TH AVE	A	1 1 2 1	1.023563 1.021451
	19868874 19852836 27680225	S 84TH AVE FAIRWAY DR	A A B	-	1.023563 1.021451 2.029218
	19868874 19852836 27680225 1020943629 130129520	S 84TH AVE FAIRWAY DR	A A B	1	1.023563 1.021451 2.029218 0.5

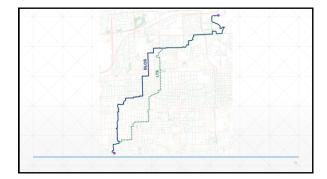
Level of	Traffic S	tress v	s. LOS		
Data availabNo correspondent		en BLOS and	d user tolerar	nce	
"Black box" fInsufficient tr		ewer/enhance	ed on-street	facilities	

\rightarrow	
	Current limitations
	Data availability Does not evaluate latent demand No empirical validation
	Not a routing tool – does not assign bike trips to the network - Cannot answer the question: "How many people will use this facility?"
	Programming tool, not a planning tool
	









Voject ID BP071641		
Annual Auto Tripe Eliminated	BLOS	LTS
Village of Park Forest Proposed side path along Weste Connecting Old Plank Road Trai	and Thorn Creek Trail	
voject ID SP111641		715 715
	BLOS	LIS.
Village of Lake in the Hills Proposed bike path along Lakew	nood Road	112
Village of Lake in the Hills Proposed bike path along Lakew Extend existing path north from A	ood Road Ilgonquin Road, connecting to existing paths	
 Village of Lake in the Hills Proposed bike path along Lakew Extend existing path north from Property 	ood Road Igonquin Road, connecting to existing paths	at Reed Road and Miller Road
Village of Lake in the Hills Proposed bike path along Lakew Extend existing path north from A Viget ID 89121642 Limed Auto Trips Elements Williams Automated 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ood Road Ilgonquin Road, connecting to existing paths	at Reed Road and Miller Road
Village of Lake in the Hills Proposed bike path along Lakew Extend existing path north from A getib #121648	ood Road Ilgonquin Road, connecting to existing paths 8 80,05 87	at Reed Road and Miller Road

