## Field study for pedestrian signals

June 20<sup>th</sup>, 2019 BRTB Traffic Signal Subcommittee Meeting

- Three sites with different pedestrian <u>activated</u> signals
  - Site 1- Flashing yellow hazard indication beacon (HIB): MD 500 @ Jamestown Rd
  - Site 2- Pedestrian hybrid beacon (PHB): MD 410 WB @ Bethesda-Chevy Chase High School
  - Site 3- Always-On fire house type Maryland pedestrian signal: US 1 @ Hartwick Rd
- Site 2 field study conducted 6 months after the deployment of PHB
- Preliminary field observations on the response of pedestrians/bikes and drivers to the pedestrian signals

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Sit	e 3— L	JS <sup>-</sup>	1 (Maryl	and pedestriar	n signal)		OF TRANSPORT
	Ob	oservat	ion Date :	October 31, 2018 (	Wednesday) time	: 11:30- 16:30	
Pedestrian							_
	Push + wait or wait	Push and go /Avg waiting time in sec		Arrival and Go during Walk Time	Arrival and Go during FDW	Not pushed or jaywalk	
North Crossing	124 (40%)	39 (14%) / 23s		28 (9%)	32 (10%)	84 (27%)	
South Crossing	114 (80%)	4 (3%) / 24s		5 (3%)	1 (1%)	19 (13%)	
Total	238 (53%)	44 (10%) / 23s		33 (7%)	33 (7%)	103 (23%)	
Driver				• More tha	an a half of the	pedestrians pus	hed the
	Stopped properly		Ran on red		nd waited.		
SB	229		19 (8%)	• About 10	• About 10% of pedestrians pushed the button bu		
NB	158		16 (9%)	did not w	did not wait until the ped signal shows" WALK".		
Total	387		35 (8%)	I ess that	<ul> <li>Less than 10% of vehicles ran red.</li> </ul>		

## Summary for <u>all</u> three sites Most vehicles (more than 75% for all sites) stop properly for pedestrians; about 10% of vehicles do not stop properly for pedestrians. • About a half of the pedestrians (44% to 59% for all sites) push the button. Relatively, HIB causes the most safety concerns; PHB and Maryland pedestrian signal seem to be safer because pedestrians are guided with a signal to follow. MD ped signal yields the lowest violation rate. Not pushed or jaywalk<sup>2</sup> Site (Ped Signal<sup>1</sup>) Pushed but not waited for Vehicles not stopping walk signal properly 12% Site 1 (HIB) 56% --Site 2 (PHB) 51% 30% 10% 8% Site 3 (MD ped signal) 41% 17% HIB: Hazard Indication Beacon; PHB: Pedestrian Hybrid Beacon 2. Excluding those who arrive during activations or after the button has already been pushed

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