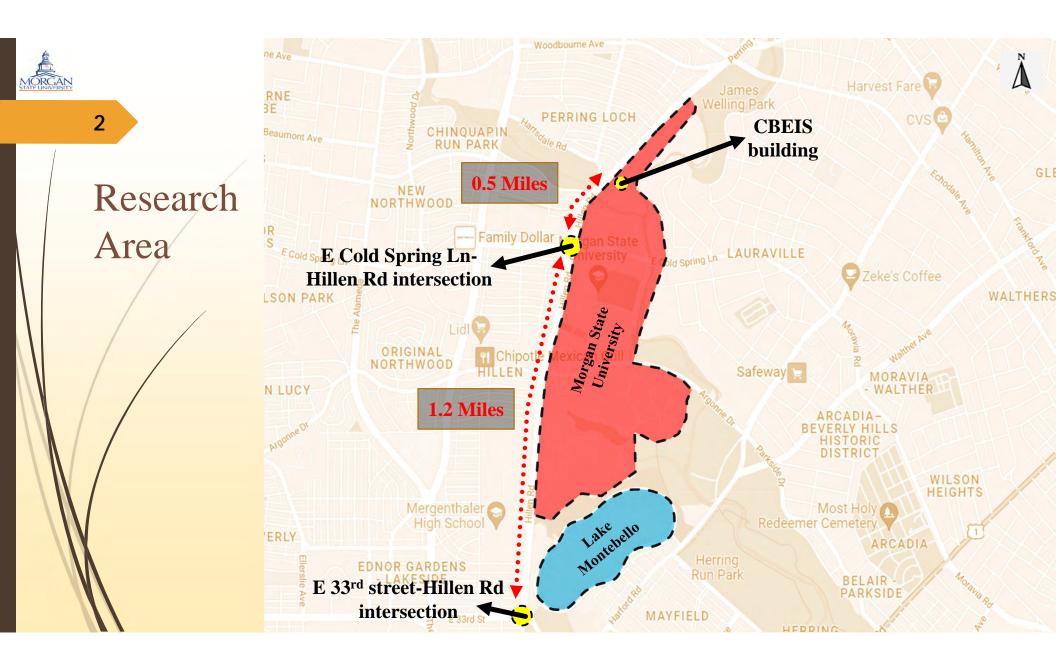
CAV Testbed at Morgan State University

1

The National Transportation Center Morgan State University



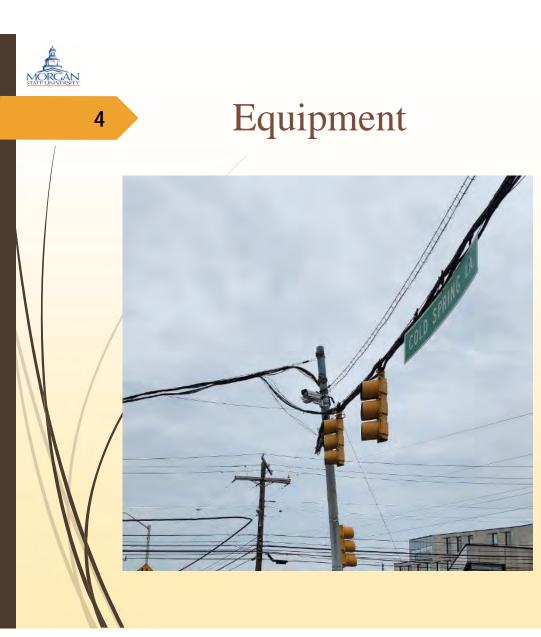


3

ECS & Hillen Road and 33rd Intersection



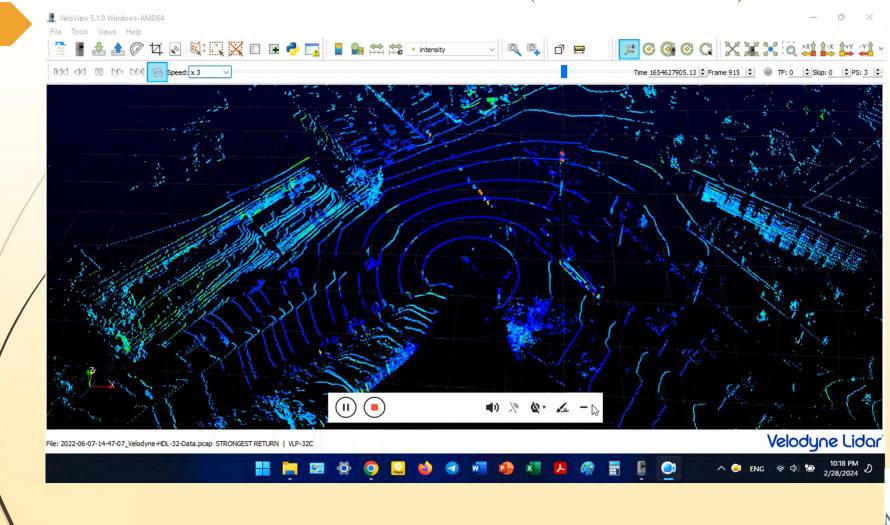








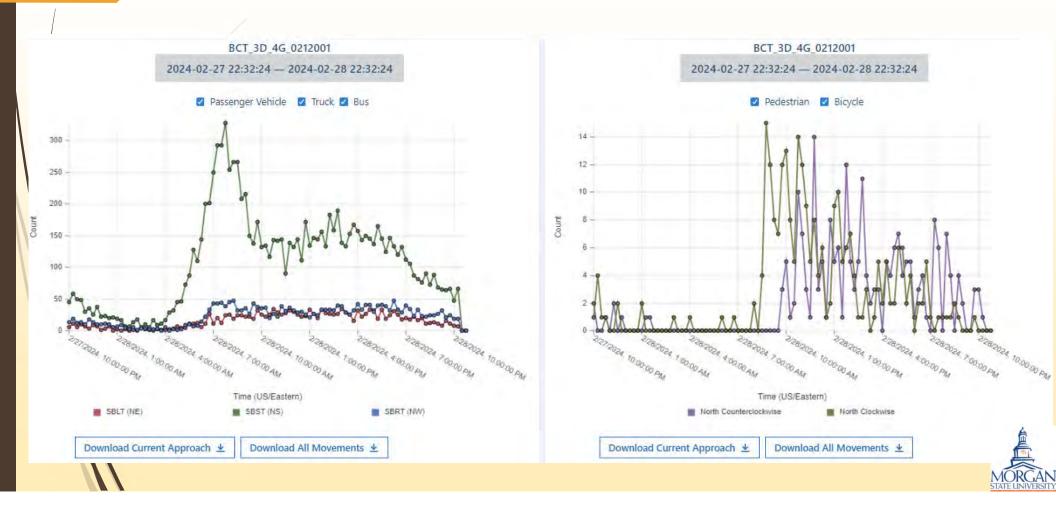
3D Point Cloud Data (Veloview Software)

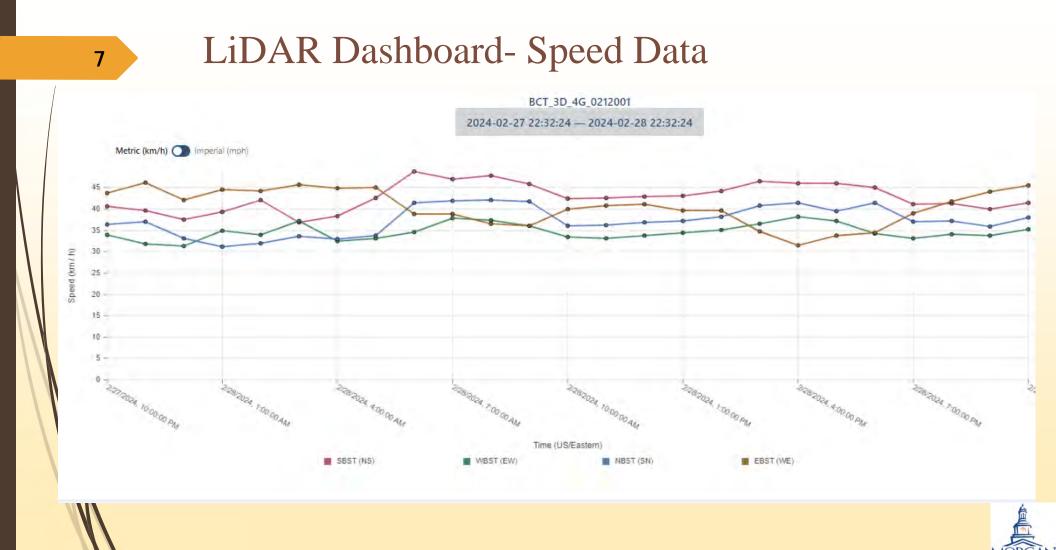


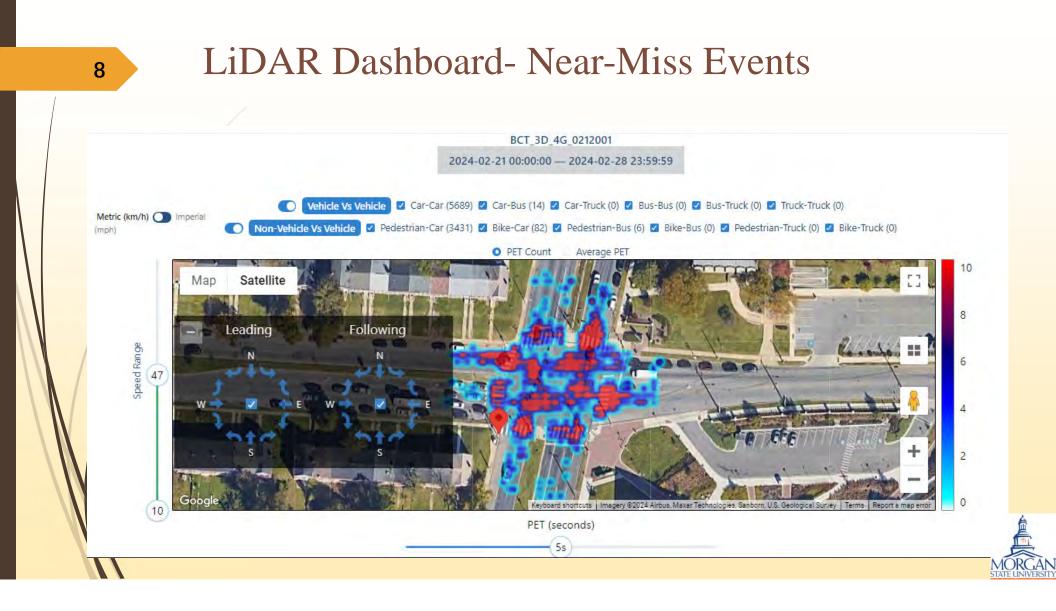
5

6

LiDAR Dashboard- Count Data







LiDAR Dashboard- Near-Miss Events

Download Excel Spreadsheet						PETI	Details				
						Sensor: BCT_	3D_4G_0212001				
COUNT 9	PET VALUE(s) ©	SPEED(km/h) ≎ 13.1		O CLIP MP4.±	LEADING OBJ. Car	FOLLOWING OBJ. Car	LEADING MOV. NBLT (SW)	FOLLOWING MOV. SBST (NS)	TIMESTAMP \$ 2024/02/21 01:21:07.7	LOCATION 39.34592, -76.58614	
10	3.1	16.7	Play	MP4±	Car	Car	NBST (SN)	SBLT (NE)	2024/02/21 02:47:18.6	39.3459, -76.58598	
11	1.2	15.3	Play	MP4±	Car	Car	WBST (EW)	EBLT (WN)	2024/02/21 03:24:22.1	39.3459, -76.58602	
12	2.9	15.8	Play	MP4	Car	Car	WBST (EW)	EBLT (WN)	2024/02/21 04:18:41.0	39.3459, -76.58602	
13	4.9	14.5	Play	MP4±	Car	Car	SBLT (NE)	NBST (SN)	2024/02/21 05:01:16.1	39.34584, -76.58598	
14	15	11.5	Play	MP4±	Car	Car	WBST (EW)	EBLT (WN)	2024/02/21 05:24:19.4	39.3459, -76.58598	
15	1.6	22.5	Play	MP4±	Car	Car	WBST (EW)	EBLT (WN)	2024/02/21 05:28:31.7	39.3459, -76.58596	
16	2.1	20.6	Play	MP4±	Car	Car	WBST (EW)	EBLT (WN)	2024/02/21 05:44:35.5	39.3459, -76.58606	
17	47	20.2	Play	MP4	Car	Pedestrian	SBST (NS)	N/A	2024/02/21 05:45:35.5	39,34598, -76,58614	
18	2.8	21.4	Play	MP4±	Car	Pedestrian	SBST (NS)	N/A	2024/02/21 05:45:35.7	39.34598, -76.58614	
19	1.8	11.7	Play	MP4±	Car	Pedestrian	WBST (EW)	N/A	2024/02/21 05:46:17.3	39.34592, -76.58584	
20	4.8	18.0	Play	MP4±	Car	Car	WBST (EW)	EBLT (WN)	2024/02/21 05:48:26.2	39.3459, -76.58604	
21	44	15.8	Play	MP4±	Car	Car	WBST (EW)	EBLT (WN)	2024/02/21 05:58:21.6	39.3459, -76.58608	
22	4.4	10.4	Play	MP4±	Car	Pedestrian	WBLT (ES)	N/A	2024/02/21 05:58:29.9	39.34572, -76.5862	



LiDAR Dashboard- Near Crash Events





10

11

LiDAR Dashboard- Jaywalking Events

					Heat Map	List						
				-	Cradier	t Trajectory	OUNT	VIDEO CLIP	CLASS TYPE	ENTER AT \$	DURATION (S) \$	TRAJECTORY
Map Satellite		Contraction of the second seco			Gradier	it majectory	1	Play MP4.	Pedestrian	2024-02-21 00:54:12.6	20	Trajectory 坐
FT FT			See. to		mine	言言	2	Play MP4	Pedestrian	2024-02-21 06:24:46.1	17.5	Trajectory ±
		1					3	Play MP4	Pedestrian	2024-02-21 06:24:48.7	6.5	Trajectory 🛓
en part M				A	1 A 14		4	Play MP4	Pedestrian	2024-02-21 07:39:29.9	6.6	Trajectory 生
The Alta		AN N	The second		No.		5	Play MP4	Pedestrian	2024-02-21 07:39:30.3	11.6	Trajectory 生
19 11		6	6	gan ar	000	7.0	6	Play MP4	Pedestrian	2024-02-21 07:50:23.8	13.2	Trajectory 🛨
		11.00	A. C.		1	+ 7	7	Play MP4	Pedestrian	2024-02-21 08:16:20.3	16.1	Trajectory 生
	Chinat .		(X	Contraction of the second	- deste	- 2 2	8	Play MP4	Pedestrian	2024-02-21 08:18:13.0	9.8	Trajectory 🛓
	Sec. 1	-H-1 - 200	in gunnhe		107	FFE	9	Play MP4	Pedestrian	2024-02-21 08:18:50.5	15.9	Trajectory 🛓
	1 1		Lixing				10	Play MP4	Pedestrian	2024-02-21 08:19:50.8	17	Trajectory 🛓
Solder win		AUR	X		A	-	11	Play MP4	Pedestrian	2024-02-21 08:32:42.5	15.7	Trajectory 生
the way them	Sector All	Track.	Land I				12	Play MP4	Pedestrian	2024-02-21 08:32:45.7	12.9	Trajectory 🛓
						8	13	Play MP4	Pedestrian	2024-02-21 08:48:36.8	9.6	Trajectory 🛓
Google	A Star Ba	Keyboard shortcuts Ima	gery ©2024 Airbus, Maxa	r Technologies, Sanborn, U.S.	Geological Survey Term	Report a map erro	4	ntan kanada	N.J.	2024 02 24 00-40-44 2	44.0	di
1	Download All ±	Download Selected	*									6

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Research Projects

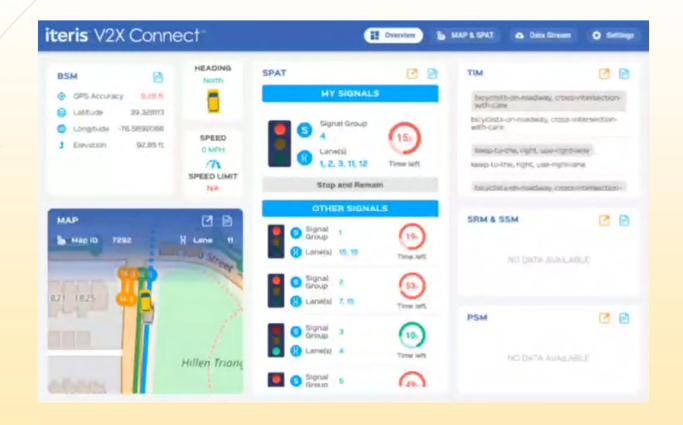
12

- Investigating vehicle-pedestrian conflicts based on a new Post Encroachment Time Threshold (PET) classification at signalized intersections
- Investigating The Jaywalking Conflicts at a Signalized Intersection by a LiDAR Sensor Technology





Research on Connected Vehicles (CVs)





Thanks for your Attention! Question?

