

Final Report

IUPUI Transportation & Parking Plan

May 2018



Page

Table of Contents

Executive	Summary	4
•	round	
,	Overview	
,	sues & Opportunities	
	nmendations	
	onditions Summary	
	us Contextoortation Context	
	ng Assessment	
	portation Conditions: Streets & Traffic	
	portation Conditions: Transit	
Transportation Conditions: Walking		
Transportation Conditions: Biking		
	portation Conditions: Carsharing	
	l Demand Management	
	Parking Demand	
	Parking Demand Modeling	
•	lans	
The Parking & Transportation Services Plan		
The Parking Management Plan		
	DM Planansit Plan	
	ke & Walk Plan	
	reets & Networks Plan	
	nerging & Shared Mobility Plan	
Table of	Figures	Page
Figure 1	Study Timeline	•
Figure 2	Where Permit Holders Begin Their Commutes	
Figure 3	Survey Participation by Campus Affiliate Group	
Figure 4	Primary Commuting Mode of All Respondents (n= 7,973)	
Figure 5	Primary Means of Getting Around Campus	
Figure 6	Existing Parking and Transportation Services Organization Chart	
•		
Figure 7	Jag Spots Interface Showing a 70%-Occupied Blackford Garage @ 11:30	
Figure 8	Parking Permit Types and Pricing	
Figure 9	Visitor Parking Pricing	
Figure 10	Waitlists for Parking Permits/Facilities at IUPUI	
Figure 11	Campus Parking Inventory – Surface Parking by Primary Parking Market	
Figure 12	Campus Parking Inventory – Garages	
Figure 13	Campus Parking Facilities	31

Figure 14	Campus Parking Regulations and Supply	32
Figure 15	Parking Violations and Fines	33
Figure 16	Parking Violations and Fines Trends	34
Figure 17	Students per Parking Spaces on Campus	34
Figure 18	1 PM Availability – Start of School to December Break	36
Figure 19	1 PM Availability – January Return of Students to End of Classes	36
Figure 20	Start of School Peak Demand Conditions	37
Figure 21	Fall Semester Peak Demand Conditions	38
Figure 22	Spring Semester Peak Demand Conditions	39
Figure 23	ST Permit Holder Parking Options: 1 pm Fall	41
Figure 24	EM Permit Holder Parking Options: 1pm Fall	42
Figure 25	Visitor Parking Options: 1 pm Fall	43
Figure 26	Campus Roadway Network	45
Figure 27	Traffic Concern Locations	47
Figure 28	Traffic Count Locations	48
Figure 29	Southbound Queuing along University Boulevard	50
Figure 30	Eastbound Queueing along Vermont Street	
Figure 31	IndyGo Service on and around Campus	54
Figure 32	Planned IndyGo Service on and around Campus	
Figure 33	IUPUI Shuttle Service (Monday – Friday)	
Figure 34	IUPUI Campus Shuttle Routes	57
Figure 35	DoubleMap App Screenshot	58
Figure 36	IU Health People Mover	59
Figure 37	IUPUI Existing Pedestrian Infrastructure	61
Figure 38	Frequently Walked Streets	63
Figure 39	Frequently Avoided Streets	64
Figure 40	IUPUI Pedestrian Conflicts	65
Figure 41	Existing Bicycle Facilities	68
Figure 42	Frequently Bike Streets	69
Figure 43	Frequently Avoided Streets	70
Figure 44	Pacers Bikeshare Station Locations	71
Figure 45	Campus Master Plan Bike Route Recommendations	72
Figure 46	BlueIndy Membership Rates	74
Figure 47	BlueIndy Station Locations	74
Figure 48	TDM Programs – Peer School Comparison	78
Figure 49	Campus Population Trends	80
Figure 50	Enrollment Trends	81
Figure 51	Baseline Parking Demand and Future Parking Supply Scenarios	82
Figure 52	Baseline Future Parking Demand in Three Supply Scenarios	83
Figure 53	Existing and Future Modeled Permit Pricing	84
Figure 54	Future Parking Demand with Demand-Based Pricing	84
Figure 55	Future Parking Demand with Demand-Based Pricing and Formal TDM Program.	85
Figure 56	OSU's CampusParc Homepage	91
Figure 57	Example Parking Permit Rate Structure	96
Figure 58	Princeton's Car-Free Campus Guide	.104

PEDESTRIAN & BICYCLE NETWORKS

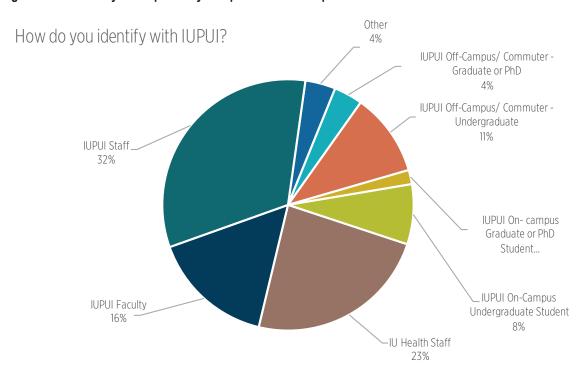
Though IUPUI does not yet have a complete connective network of facilities for pedestrians and bicyclists, the campus's flat topography and regional greenway network connections create a supportive environment for both. IUPUI's most significant walking and cycling connections are the two regional off-street trails that cut through the campus: the Indianapolis Cultural Trail and the White River Wahapani Trail. W. Michigan Street and W. New York Street are the most significant bike facilities on campus. W. New York Street was recently converted from one-way arterial design to two-way street design with landscaped medians and off-street, bi-directional bike lanes, and W. Michigan Street is undergoing the same conversion. The bike lanes on Michigan and New York Streets extend as unprotected bike lanes westward across the White River to connect the IUPUI campus to the path on the west bank of the river.

A proposed extension of the Indianapolis Cultural Trail would extend along two blocks of Indiana Avenue between 8th and 10th Streets, and along 10th Street between Indiana Avenue and the White River. This additional stretch of off-street path would provide additional links to the White River Wahapani Trail and enhance bike/pedestrian mobility on the northern edge of IUPUI campus.

TRAVEL BEHAVIOR AND PATTERNS

The Campus Transportation Survey was conducted From November 2017 through January 2018. More than 8,500 participants completed the survey, including undergraduate students, graduate students, faculty, staff, and other University affiliates. Participants answered questions about travel patterns, mode choice and preferences, and parking experiences.

Figure 2: Survey Participation by Campus Affiliate Group



Transportation and Parking Plan | Existing Conditions Report

The survey results reveal the dominance of driving, both to campus and within campus during the day. Nearly 90% of respondents drive alone to campus each day (Figure 3), including 87% of off-campus students, 63% of on-campus students, and 93% of employees. Based on survey responses and feedback provided during stakeholder meetings, this pattern is attributable, in part, to poor pedestrian connections surrounding and within the campus. This is consistent with the findings of the 2012 Campus Master Plan, which highlighted a series of barriers to walkability throughout the campus area.

Primary Commuting Mode- All Affiliates 100% 90% 90% 80% 70% 60% 50% Different Bicycle Report Transportation of Telecontribute Transport Transpor 40% 30% 20% 2% 10% 0% 0%

Figure 3 Primary Commuting Mode of All Respondents (n=7,973)

Additionally, significant portions of respondents indicated that non-traditional and variable work/campus schedules (52%) and a lack of transportation alternatives (38%) were the main reasons for why they drove alone to campus. Others indicated that public transportation and the IUPUI shuttle were not convenient (both reasons indicated by 28% of respondents).

Although walking makes up just two percent of primary commute choice, once affiliates are on campus, their primary mode of travel on campus is by foot, with 68% of all respondents reporting that they walk once on campus. Nonetheless, 24% of respondents say they drive between campus destinations. (Figure 4)

Figure 4 Primary Means of Getting Around Campus

What is Your Primary Means of Getting Around Campus?

