an integrated plan for education, research, and health IUPUI and IU Health

SMITHGROUP/JJR

February 17, 2011





a master plan vision for the next 30 years



IUPUI and IU Health



a distinctive history







master plan criteria

create one academic medical campus

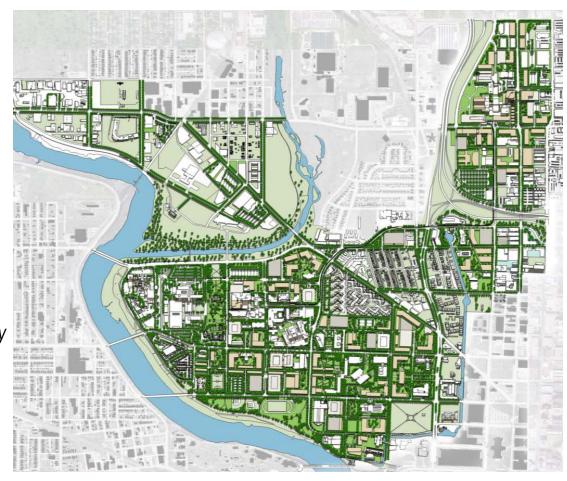
- continue coordinated planning
- integrate functions of patient care, education and research
- coordinate parking strategy
- connect districts
- develop consistent way-finding

use land strategically

acquire land to reinforce campus identity

promote a strong sense of continuity

- define clear campus boundaries
- link visible and accessible open spaces



participants in the planning process

Executive Committee:

Michael McRobbie, President
Dan Evans, President & CEO
Tom Morrison, VP for Capital Projects and Facilities
Bill Stefan, VP for Engagement
Charles Bantz, Chancellor
Sam Odle, EVP & COO
Marvin Pember, EVP and CFO
Dr. Craig Brater, Dean

Steering Committee:

Paul Sullivan, Deputy VP for Administration Bob Meadows, University Architect Mark Bode, Executive Director Real Estate Emily Wren, Assoc. Vice Chancellor Facilities Lynn Coyne, Director of Real Estate David Doell, Project Manager Indiana University IU Health Partners, Inc. Indiana University

IUPUI IU Health Partners, Inc. IU Health Partners, Inc. Indiana University School of Medicine

Indiana University
Indiana University
Clarian Health Partners, Inc.
IUPUI
Indiana University
IU Health

Additional Planning Partners:

IU Health Partners, Inc.

Donnie Reed, COO Dr. Ora Pescovitz, former CEO Dan Fink, COO Dr. John Kohne, COO Mela Miroff Doug Morris, former VP of Facilities Mark Mattes Debra Uhl, CEO Riley Hospital – Clinical Programs
Riley Hospital – Clinical & Research Programs
Riley Hospital
Methodist Hospital
Methodist Hospital – Clinical Programs
IU Health– Clinical Programs
IU Health– Education Programs
Indiana University Hospital

IUPUI

Joel Trammel Karen Correll Laura Lucas Brian Carney IUPUI – School of Medicine Programs IUPUI – School of Medicine Programs Indiana University Wishard Hospital

Master Plan Consultants:

SmithGroup/JJR Programming and Master Planning

CHANCE Management Advisors, Inc. Parking and Transit Planning

Gorove/Slade Associates, Inc. Transportation Planning

Hunt Construction
Cost Modeling



IUPUI – challenges and opportunities

- grow enrollment to 35,000
- provide more teaching labs and research space
- improve and expand classrooms and office space
- integrate academic, research and healthcare communities
 - expand on campus housing and student amenities
 - modernize existing space
 - improve the quality and quantity of campus open spaces



program summary for IUPUI

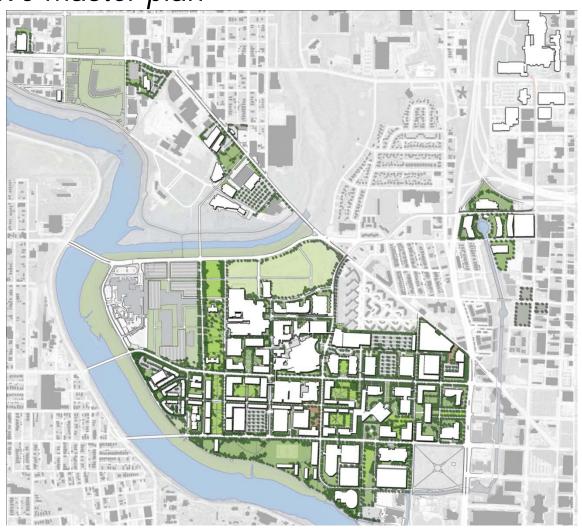


Existing GSF: 9,900,000 GSF

Academic needs: (classroom, teaching, labs, office, service)	1,525,000 (745,000)
Academic support : (library, admin, athletics/rec, assembly)	515,000 (265,000)
Auxiliary needs: (student center, health care)	160,000 (85,000)
Space demand subtotal: Demolition replacement:	2,200,000 (1,095,000)
Total need:	3,295,000
Existing beds (3.7% of 30,000): Housing demolition candidates:	1,107 beds 60 beds
Residential base year total:	1,047 beds
Proposed residential :	2,453 beds
Total residential (10% of 35,000)	3,500 beds
Gathering spaces	160,000

IUPUI and IU Health

initial illustrative master plan



Investigate

Demolish

acquisition of the Wishard property

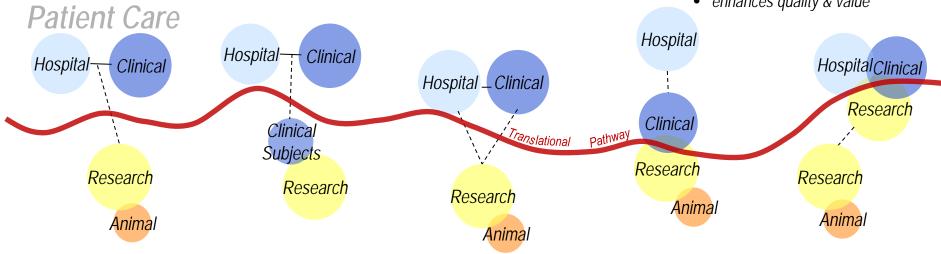


strategic location obsolete structures difficult to adapt to modern programs extensive demolition required

Primary Care Center	98,747	В	11	4 + Bsmt.	Alone	Upgraded MEP minor upgrades required	Faculty Office
Ott Building	30,390	В	86	4	North / Connected	Fair Condition Upgraded MEP minor upgrades required, new roof and windows needed	Office
Service Building	67,038	В	16	2	West / Connected	Reuse chillers & steam minor upgrades	Central Utility as required
Dunlap Building	135,479	1	22/6	4 +Bsmt	Central / Attached	Good Condition MEP systems some upgrades replacements	Office Education
Regenstrief	200,235	В	34	6 + Bsmt.	West / Attached	Fair Condition MEP Systems need replacement	Office Education
East Building	104,869	В	80	4 + Bsmt.	North / Attached	Fair-Poor Condition MEP Systems need replacement	Demolition
West Building	79,779	В	84	5	West / Attached	Poor Condition MEP Systems need replacement	Demolition
Myers Tower	394,176	1	40	7 + Bsmt.	Central / Attached	Poor Condition Central MEP distribution, upgrades required, roof replacement, plumbing replacement, Fl to Fl Height issues	Demolition
F- Wing	52,285	1	70	5 + Bsmt.	East / Attached	Fair Condition MEP Systems, Roof need Replacement	Demolition
Burdsal Building	69,700	1	95	5	West / Attached	Poor Condition MEP Systems need Replacement	Demolition
Bryce Building	48,818	В	85	5	East / Connected	Poor Condition MEP Systems need Replacement	Demolition Office
Wishard Garage	(1,200 cars)	Р	5	7	East / Stand Alone		Retain Parking
Wilson St. Garage	(500 cars)	Р			West / Stand Alone	Upgrading 10 year life	Retain Parking
Total Area	1,337,513						
Area for Reuse Potential Reuse	233,952 402,752						

integrated planning in an era of constrained resources

- increases productivity
- reduces duplication
- supports knowledge management
- supports emerging disciplines
- supports development of evidence
- optimizes care delivery
- enhances quality & value

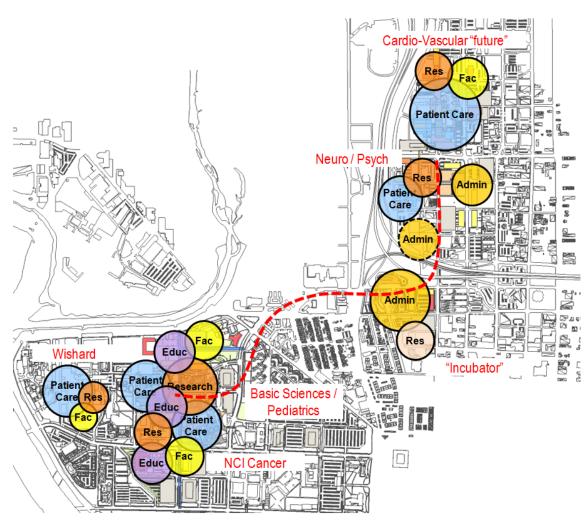




an integrated health sciences center

projected program = 4,176,680 gsf

- Research is INTEGRATED with patient care environment.
 - NCI University Hospital
 - Neuro / Psych
 - Pediatrics / Basic Sciences
 - Cardio-Vascular
- Education is CONSOLIDATED at Peninsula Campus
 a New Integrated Health Sciences Center
- Administration / Faculty Offices are DISTRIBUTED depending on need.
- Corporate Administration is DISTRIBUTED
- Incubator labs are CONSOLIDATED at Canal District
- Patient Parking is DISTRIBUTED at Patient Care Setting





pursuing NCI recognition

34 AMC-affiliated NCI Comprehensive Cancer Centers

MD Anderson	Houston	Fred Hutchinson	Seattle
Case Western	Cleveland	Yale	New Haven
Dana-Farber	Boston	Alvin Siteman	StLouis
Pitt	Pittsburgh	Chao Family	Irvine
Helen Diller	San Francisco	Karmanos	Detroit
Herbert Irving	New York	Masonic	Minneapolis
Ohio State	Columbus	Holden	Iowa City
Abramson	Philadelphia	Lineberger	Chapel Hill
CCI New Jersey	Piscataway	Mayo Clinic	Rochester
Robert Lurie	Chicago	Moores	San Diego
Michigan	Ann Arbor	Paul Carbone	Madison
UAB	Birmingham	Sidney Kimmel	Baltimore
Vanderbilt Ingram	Nashville	Wake Forest	Winston-Salem
USC / Norris	Los Angeles	Arizona	Tucson / Phoenix
Colorado	Denver / Aurora	Lombardi	Washington DC
U Chicago	Chicago	Norris Cotton	Hanover
Duke	Durham	UCLA/ Jonsson	Los Angeles

	Total Hospital Reve (Millions) (AHD 20	Total NCI Researd (Millions) (NCI 20		
University of Texas Medical School at Houston				
NCI - MD Anderson Cancer Center	\$ 13,421	\$ 135.3	\$ 13	,556
Case Western Reserve University School of Medicine				
NCI - Case Comprehensive Cancer Center	\$ 11,756	\$ 37.1	\$ 11	,793
Harvard Medical School				
NCI - Dana-Farber Cancer Institute	\$ 10,353	\$ 230.6	\$ 10	,584
University of Pittsburgh School of Medicine				
NCI - University of Pittsburgh Cancer Institute	\$ 9,846	\$ 63.6	\$ 9	,910
UCSF, School of Medicine				
NCI - Helen Diller Family Comprehensive Cancer Center	\$ 6,962	\$ 74.0	\$ 7	,036
Columbia University College of Physicians and Surgeons				
NCI - Herbert Irving Comprehensive Cancer Center	\$ 6,808	\$ 33.3	\$ 6	,841
Ohio State University College of Medicine				
NCI - Comprehensive Cancer Center	\$ 5,680	\$ 57.3	\$ 5	,737
University of Pennsylvania School of Medicine				
NCI - Abramson Cancer Center	\$ 5,396	\$ 66.4	\$ 5	,462
UMDNJ-Robert Wood Johnson Medical School				
NCI - Cancer Center Institute of New Jersey	\$ 4,622	\$ 14.7	\$ 4	,637
Northwestern University The Feinberg School of Medicine				
NCI - Robert Lurie Comprehensive Cancer Center	\$ 4,419	\$ 39.6	\$ 4	,459
Indiana University School of Medicine				
	\$ 4,301	\$ 14.8	\$ 4	,316
University of Michigan Medical School				
NCI - Uof M Comprehensive Cancer Center	\$ 3,724	\$ 88.1	\$ 3	,812
University of Alabama School of Medicine				
NCI - UAB Comprehensive Cancer Center	\$ 3,705	\$ 36.8	\$ 3	,742
Vanderbilt University School of Medicine				
NCI - Vanderbilt-Ingram Cancer Center	\$ 3,564	\$ 77.2	\$ 3	,641
Keck School of Medicine, USC				
NCI - USC / Norris Comprehensive Cancer Center	\$ 3,579	\$ 44.0	\$ 3	,623
University of Colorado DenverSchool of Medicine				
NCI - University of Colorado Cancer Center	\$ 3,364	\$ 28.1	\$ 3	,392



existing development - IHSC

- approx. 3.81 million GSF IU Health facilities
- approx. 5.31 million GSF IUPUI facilities
- 9.12 million GSF IUPUI and IU Health facilities
- 1.46 million GSF existing Wishard campus
- 10.58 million GSF total with Wishard
- F.A.R. range from 0.3 to 1.6

District A

IU Hospital: 1,400,360 GSF

Riley Hospital: 1,083,940 GSF

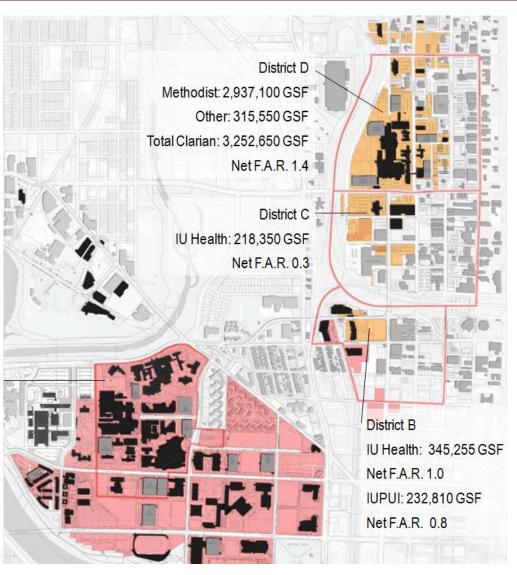
Simon Family Tower: 675,000 GSF

IUSM, IUPUI Facilities: 1,917,750 GSF

Wishard Facilities: 1,461,000 GSF

Total Facilities: 6,538,050 GSF

Net F.A.R. 1.6





Clarian Health

program summary for integrated health sciences

	Existing NSF All Districts	Proposed NSF Growth	Proposed Demolitions	Demo GSF To Be Replaced	Total Required New GSF
IUPUI Academic					
SOM	1,185,765	509,275		280,810	1,360,910
Administration	490,985	112,250			157,600
			Long Replaced	55,500	· ·
			Fesler Hall Replaced	61,400	
			Riley Research Bldg.	61,400	
Research	537,415	391,025			781,920
rescaren	337,413	331,023			101,020
Education	115.650	6.000			8.580
	,	-,	Clinic Bldg. Replaced	102,510	-,
Clinical	29,745			,	64,000
	,		Gatch Replaced by Glick		68,000
Other	11,970				
SOH&RS	15,820	24,780			45,050
SOD	109,973	78,898			143,450
SOPH	7,040	16,360			29,750
SON	77,397	84,594			153,800
	1,388,955			Subtotal IUPUI	1,732,960

UPUI/IU Health space needs – Peninsula	1.73M
UPUI non-health science, academic, and support	2.25M
Gathering	160K
Total – Peninsula	4.14M

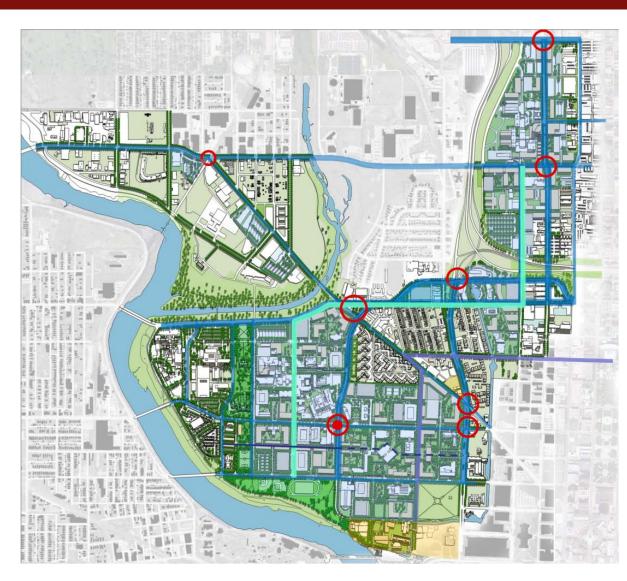
Clarian Health					
Riley	833,800				450,000
Hospital				Simon Tower Fit-out	(182,000
				Phase 2-Firs 2-4 Ren	(58,400
				Phase 3 Mother Baby	(135,000
Outpatient				Clinic Faculty Office	150,000
				Simon Tower addition	300,000
University	1,077,200				-
Hospital				Bed Floor Reno	(139,000
				Cancer Center fit-out	(57,500
				Ed Expansion	(4,000
				D&T renovation	(17,000
Outpatient				Clinic Renovation	(30,000
				ICU/ACU Renovation	(48,500
Methodist	2,259,300				1,400,400
Hospital				Bed Floor Renovations	(324,000
				South Expansion	122,000
				NE Bed Tower 1	601,000
				NE Bed Tower Exp.	72,000
				West Bed Tower Exp.	215,600
				MOB Faculty Office	116,000
Outpatient				Neuro Ambulatory	211,300
•				Neuro Expansion	62,500
Administrative	782,000	154,000	Lease Exits NSF	339,694	593,320
Corporate			Gateway	103,577	
			1815 Demo	13,057	
			2039 Demo	7,327	
			Safeco Exp.	43,770	
			Bldg. B&C	52,396	
			South Madison	54,051	
			Independence	54,364	
Integrated Services			Methodist Tower	11,152	
Other Programs					
	1			0.14.4.101.1	2,443,720
Other Programs	4.952.300			Subtotal Clarian	
	4,952,300			Subtotal Clarian	2,440,720
Parking	4,952,300			Subtotal Clarian	2,440,720
	4,952,300			Subtotal Clarian	4,176,680



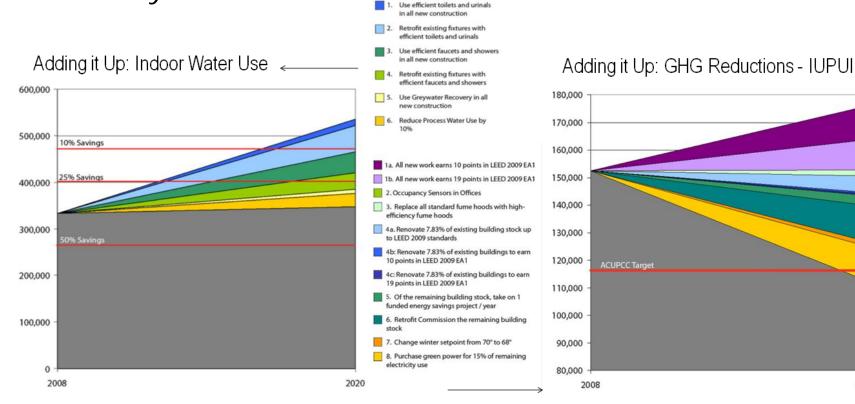
framework plan

legend:

- IUPUI / IU Health academic medical campus
- primary gateways
- campus center
- primary corridors and streets capes
- secondary corridors
- primary open space
- walk of life
- cultural trail
- IUPUI cultural trail link



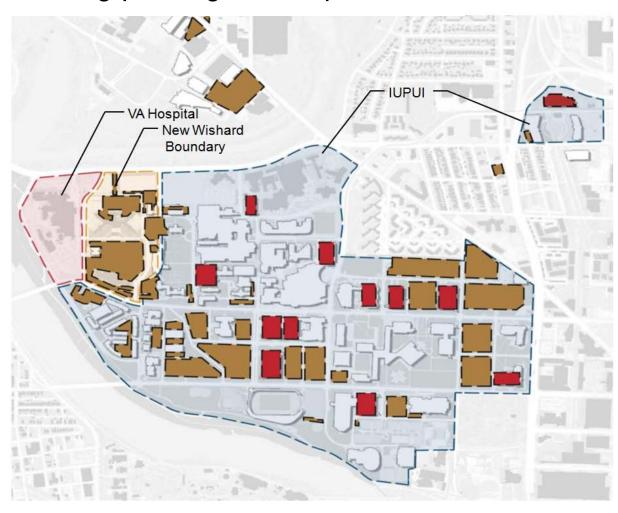
sustainability



- The strategies combined would result in a water savings of 187.6 millions gallons/yr.
- IUPUI could grow by over 50% while increasing its water consumption by only 4%.
- The strategies result in a 35% reduction in water use from the baseline campus use.
- The energy savings from the combined strategies (Wedges 1-8) result in a GHG emissions reduction of 62,430 MT eCO2, allowing the campus to grow in size by over 50% while at the same time reduce its emissions by over 25%

2020

existing parking on the peninsula





- 18,450 total spaces
- · half surface half structured
- · 28% visitor spaces
- · 46% student spaces
- three parking districts medical, east (majority), west
- replace 1,760 with Wishard move

existing parking utilization:

- a permit = 94% full
- b permit = 96% full
- e permit = 93% full
- housing = 100% full
- other = 83% full



parking and circulation

two complex and interrelated issues:

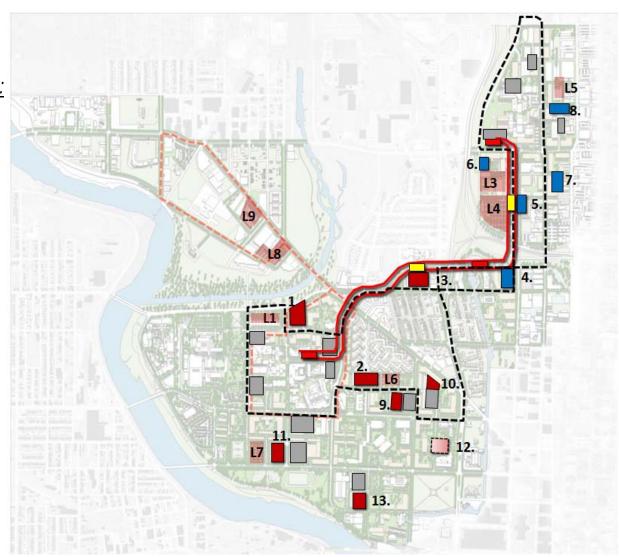
- parking demand
- connectivity

parking demand:

- patients and visitors
- commuters

connectivity:

- proximate parking for patients, visitors, key staff
- circulation from commuter parking to work location
- daily collaborative circulation among districts

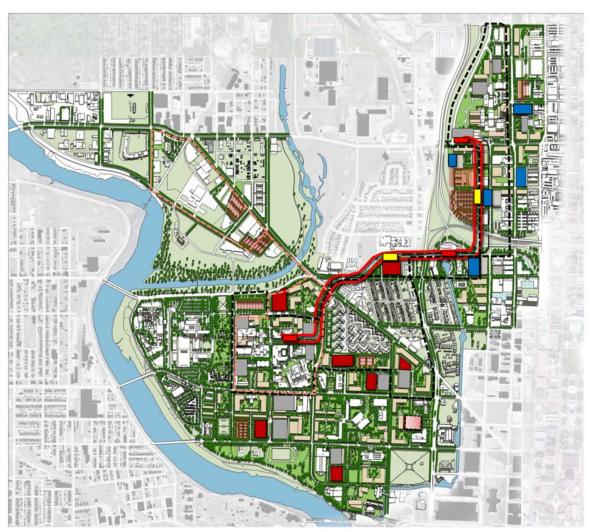


parking and circulator improvements

18,450 existing spaces 22,210 future demand 3,760 net gain

legend:

- existing garages
- proposed surface lots
- IUPUI/IU Health provided garages
- proposed underground parking
- private developer garages
- new people mover infill stations
 - new district bus circulator links parking
 - existing bus circulator





proposed mixed use infill garage



two new people mover infill station 'outboard' platforms mixed use garage at 10th/11th streets residential and retail easy highway access









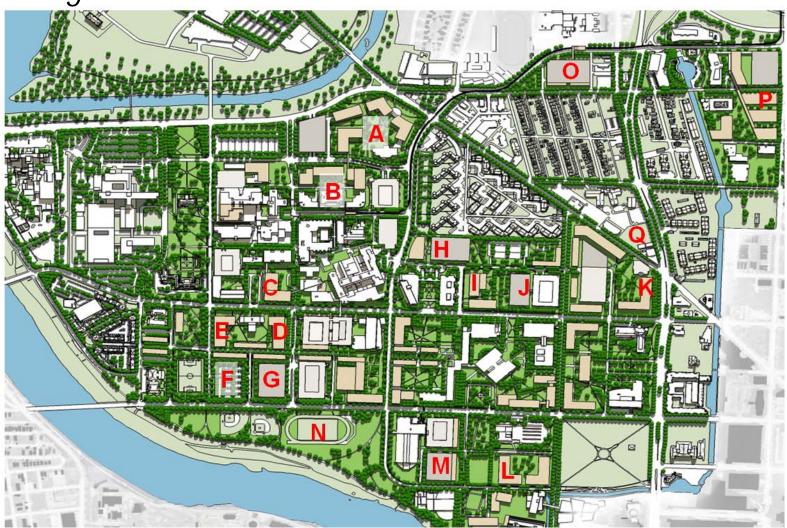
illustrative plan



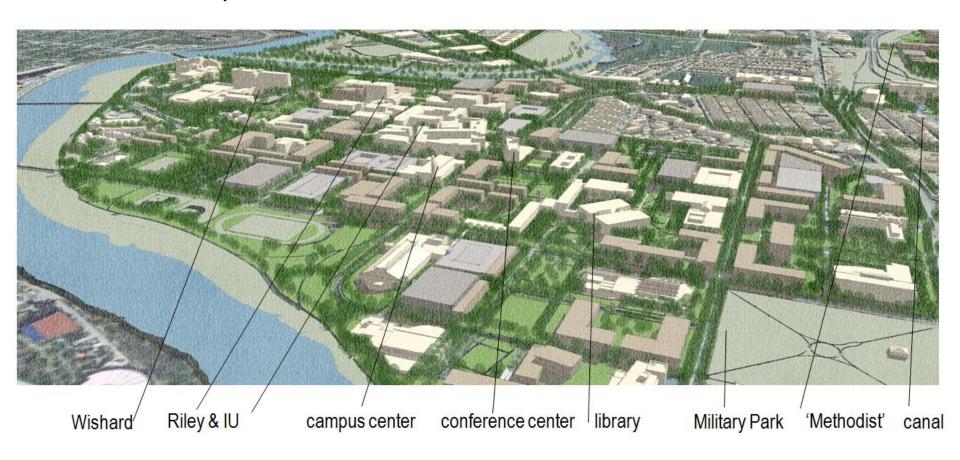
IUPUI and IU Health



plan enlargement - IUPUI



view of the campus from the south





view of the campus from the south





looking south at University and Michigan





looking south at University and Michigan



IUPUI and IU Health



looking east at Michigan and Vermont



IUPUI and IU Health



rendering



IUPUI and IU Health



redevelopment of Wishard at 10th





the masterplan



the masterplan



IUPUI and IU Health

conclusions:

- one institution one plan
- a fully integrated approach
- connecting multiple districts
- a 30-year vision

