

Agenda

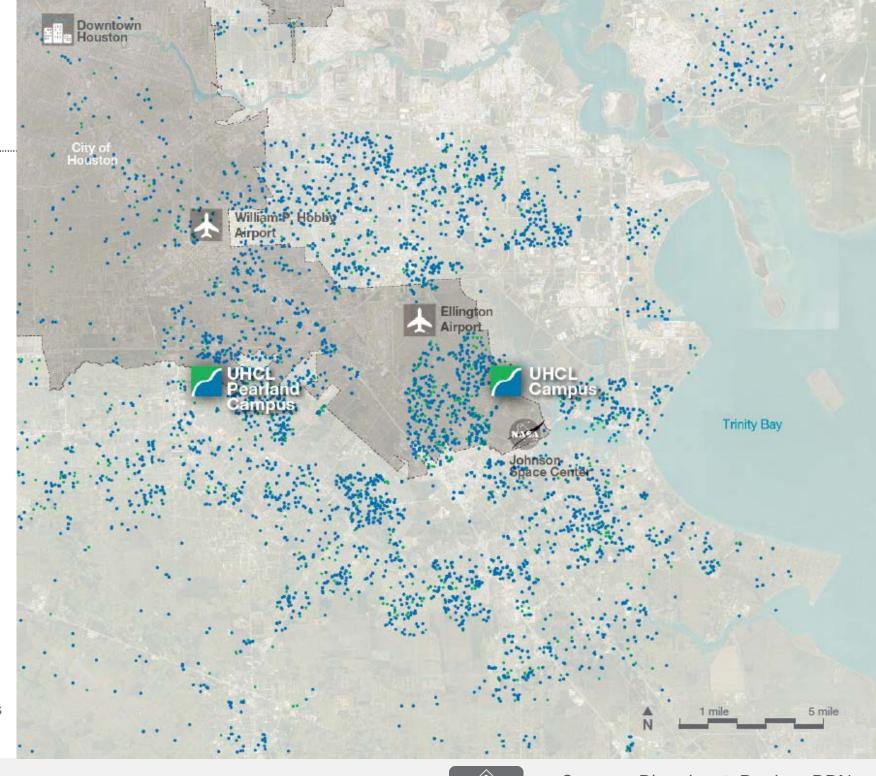
- O1 A Campus in a Bayou Landscape
- O2 Stormwater Management
- 03 Campus Resiliency Tested
- 04 Master Plan Impacts







UHCL Regional Context



Undergraduate Students

Graduate Students



Ecological Context



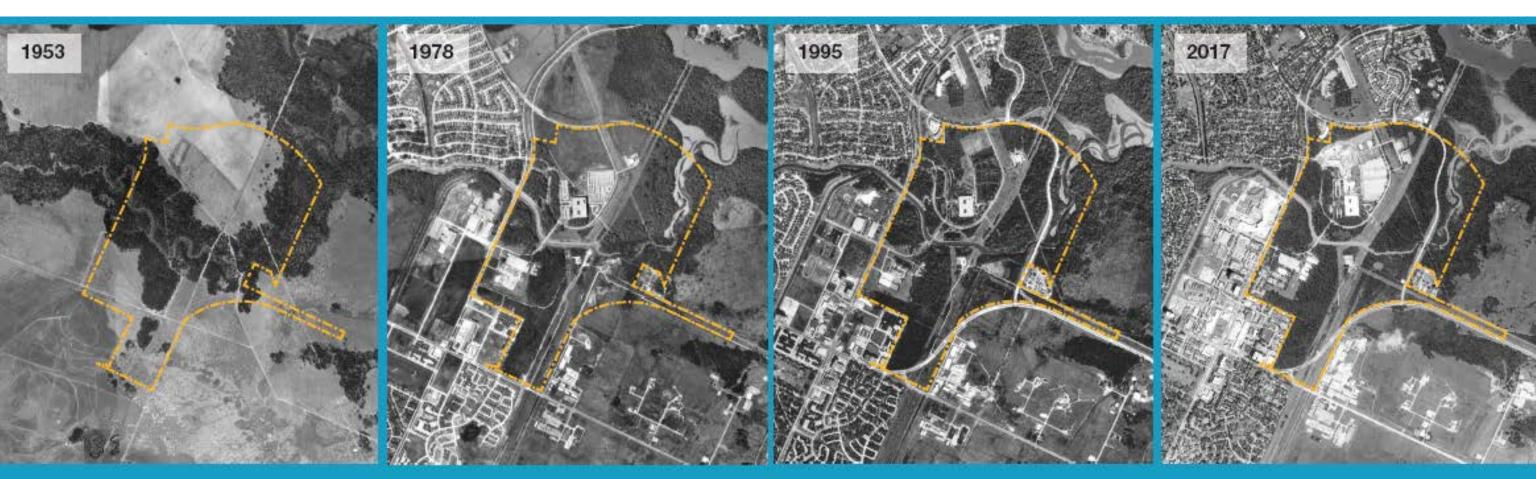








Campus Evolution



△ Campus Evolution: 1953 - 2017 (Google)



Campus Landscape







Development Constraints

DEVELOPMENT CONSTRAINTS

FEMA 500yr Floodplain ## FEMA 100yr Floodplain

Forest PROGRAM

Harris County Flood Zone

Academic/Administration

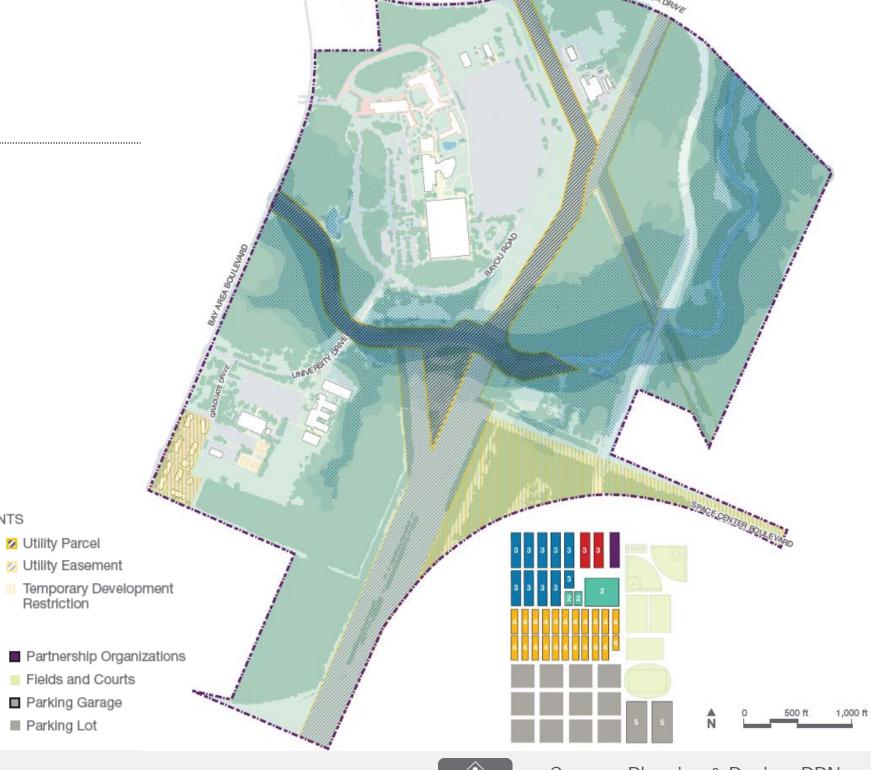
Student Housing

Indoor Recreation

Student Life

Utility Parcel

■ Parking Lot

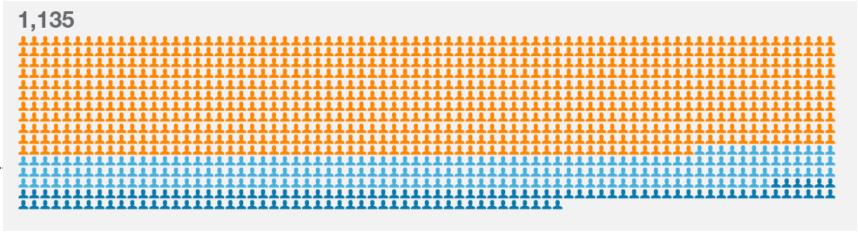


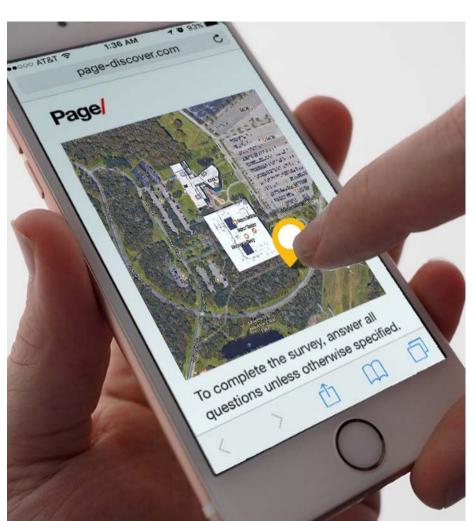


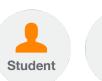
Stakeholder Engagement















MyUHCL Survey
1,135
TOTAL RESPONSES



"What are your favorite outdoor spaces?"

"The Plaza and Potter Pond"

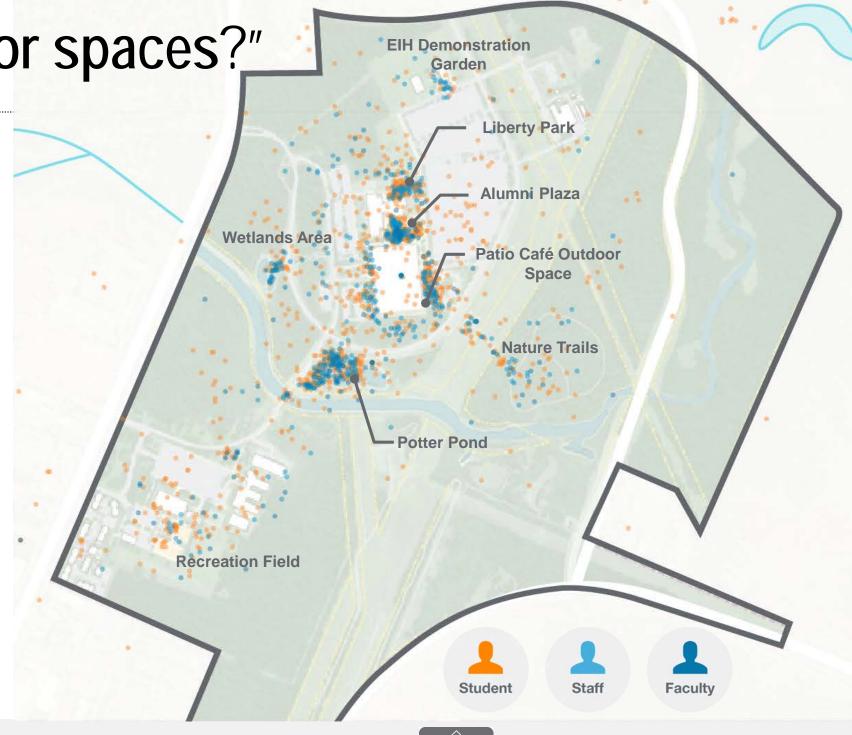
"All the grounds are great for walking or just eating outside. Sometimes I just walk around to take a break."

"I love our green spaces - I'm always looking for deer, rabbits, hawks, and alligators."

"We need safer pathways so groups can explore and learn more about the wildlife on campus."



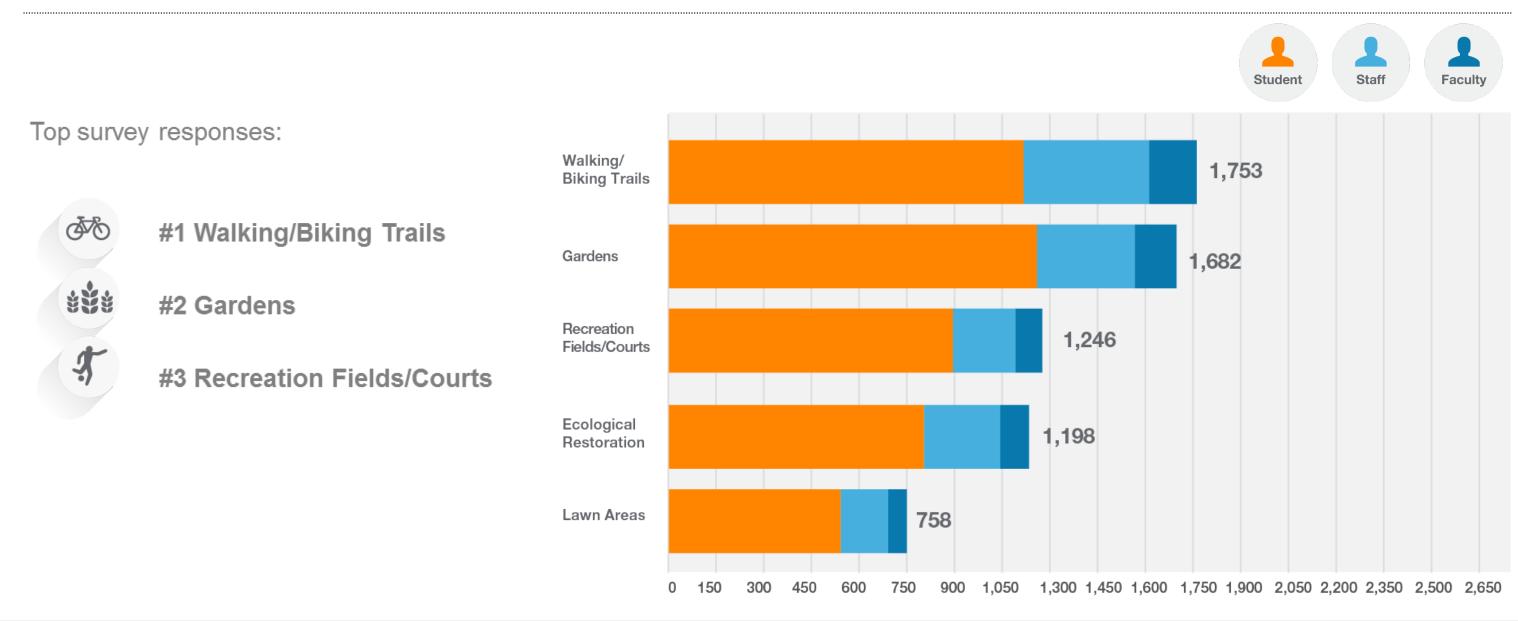








"Which outdoor spaces would you like to see?"









Stormwater Management Techniques







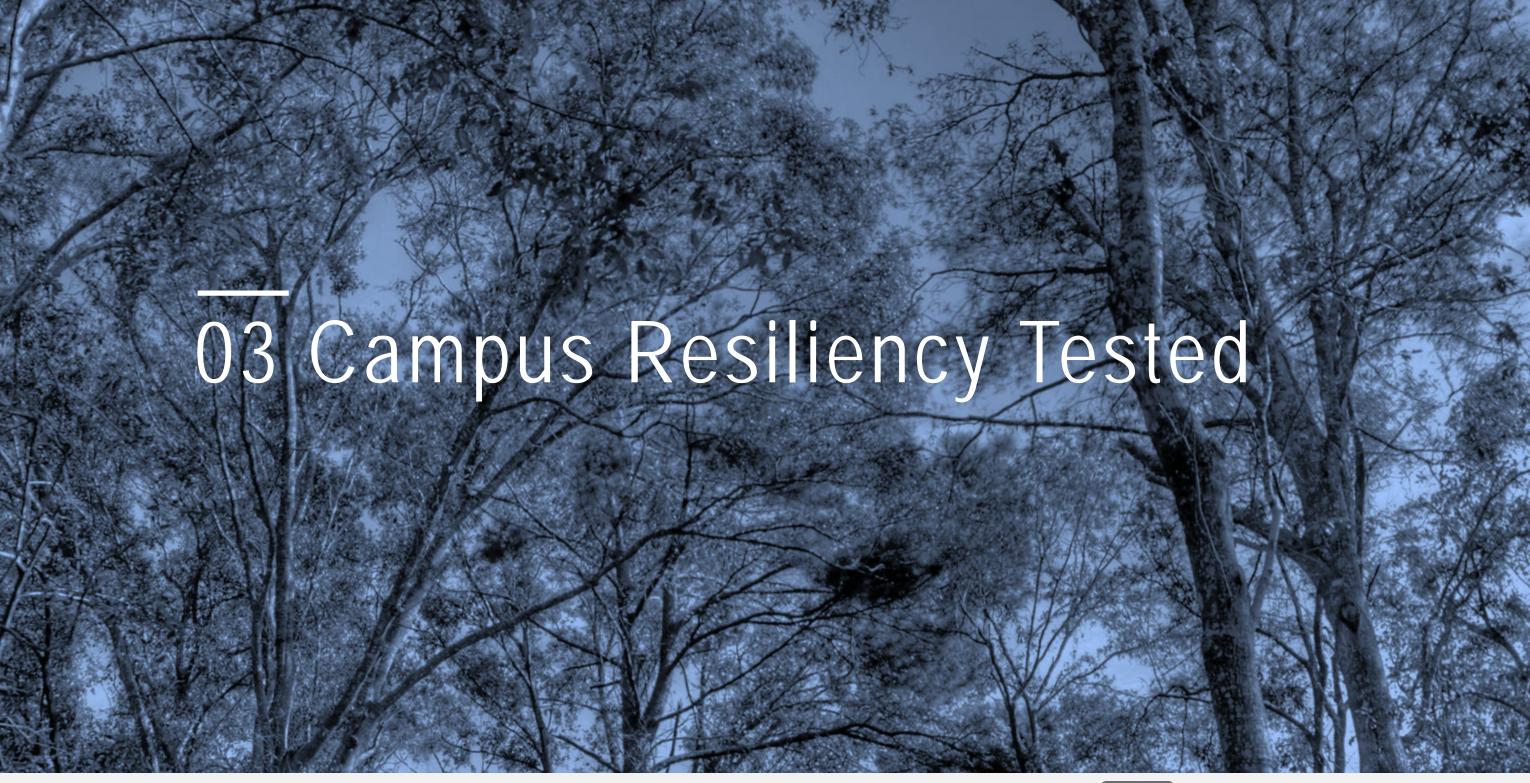
Campus Landscape as Infrastructure: A Case Study UHCL Master Plan and Hurricane Harvey





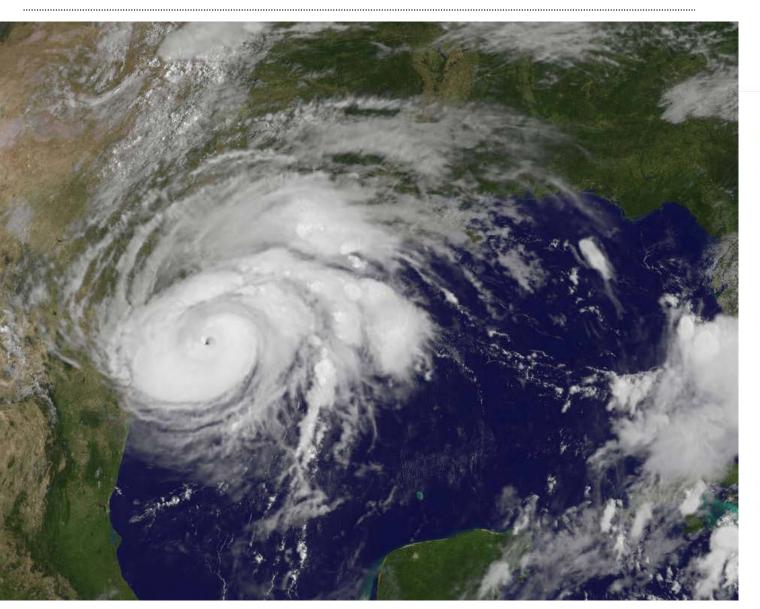








2017 Hurricane Harvey



HURRICANE HARVEY

A closer look at Houston's biblical floods

51 inches: Five Houstonians brave America's worst storm



By Mike Hixenbaugh, David Hunn, and Mark Collette

Harvey: Terror, heartbreak and heroism as five Houstonians brave America's worst storm

- * Floodwaters gone in South Houston, but no sign of FEMA
- >> Part 3: Bayside picks up the pieces after storm
- Part 2: Battered Rockport area is down, but not out
- * Part 1: Tivoli's 'uninhabitants' on their own after a direct hit

LATEST HARVEY NEWS

Preview Your Future: Welcome to the Chronicle's new entertainment section

Harvey didn't scare Halloween in Katy

Amid discrimination claim, a small uptick in Hispanic Houston ISD principals

System rigged against homeowners when it comes to floods

County OKs more flood buyouts, clears way for purchase of SRO

ICYMI: Investors and homeowners unaware of reservoir flood dangers, records show

Insurance industry learning key lessons from Hurricane Harvey

Suspect caught after Galveston shooting during Hurricane Harvey

Contemporary art museum builds partnerships

Liberty County olive farm survives Harvey ravages

Olive farm survives Harvey ravages

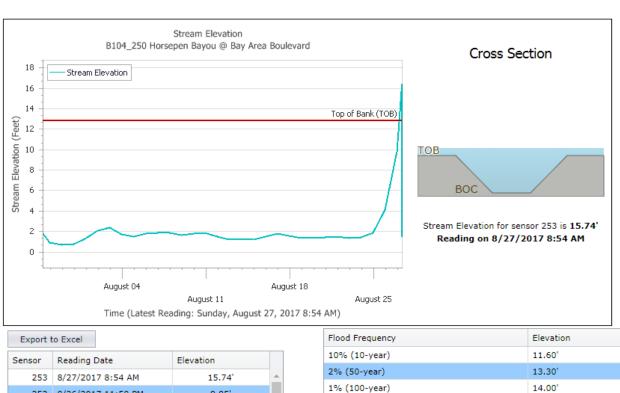
Friendswood gets a 'Mule' to help with storm recovery

Tilman Fertitta: 'Not many can own a team in their hometown'

Campus Landscape as Infrastructure: A Case Study UHCL Master Plan and Hurricane Harvey



2017 Hurricane Harvey



Export	to Excel		
Sensor	Reading Date	Elevation	
253	8/27/2017 8:54 AM	15.74'	
253	8/26/2017 11:58 PM	9.85'	
253	8/25/2017 11:48 PM	4.14'	
253	8/24/2017 11:03 PM	1.86'	
253	8/23/2017 10:45 PM	1.42'	
253	8/22/2017 11:49 PM	1.38'	
253	8/21/2017 11:47 PM	1.50'	ľ
253	8/20/2017 11:31 PM	1.40'	
253	8/19/2017 11:33 PM	1.37'	
253	8/18/2017 11:23 PM	1.35'	
253	8/17/2017 11:47 PM	1.56'	
253	8/16/2017 11:45 PM	1.78'	
253	8/15/2017 10:24 PM	1.51'	
253	8/14/2017 11:26 PM	1.20'	

2% (50-year)	13.30'					
1% (100-year)	14.00'					
.2% (500-year)	15.70'					
Historical Storm						
Date	Event		Elevation			
6/19/2001	Allison		14.63'			
6/19/2006			6.60'			
8/16/2007	Erin		9.10'			
9/13/2008	Ike		11.20'			
4/18/2009			11.30'			
5/13/2015			13.40'			
8/27/2017	Harvey		15.70'			
High water mark elevations are approximate.						









UHCL Campus Master Plan





- Campus Mall
- Residential Neighborhood
- Gathering/Activity Plaza
- Outdoor Recreation
- Nature Trails







UHCL Campus Master Plan



Detention Area
Swale

■ Watershed

→ Flow Direction



