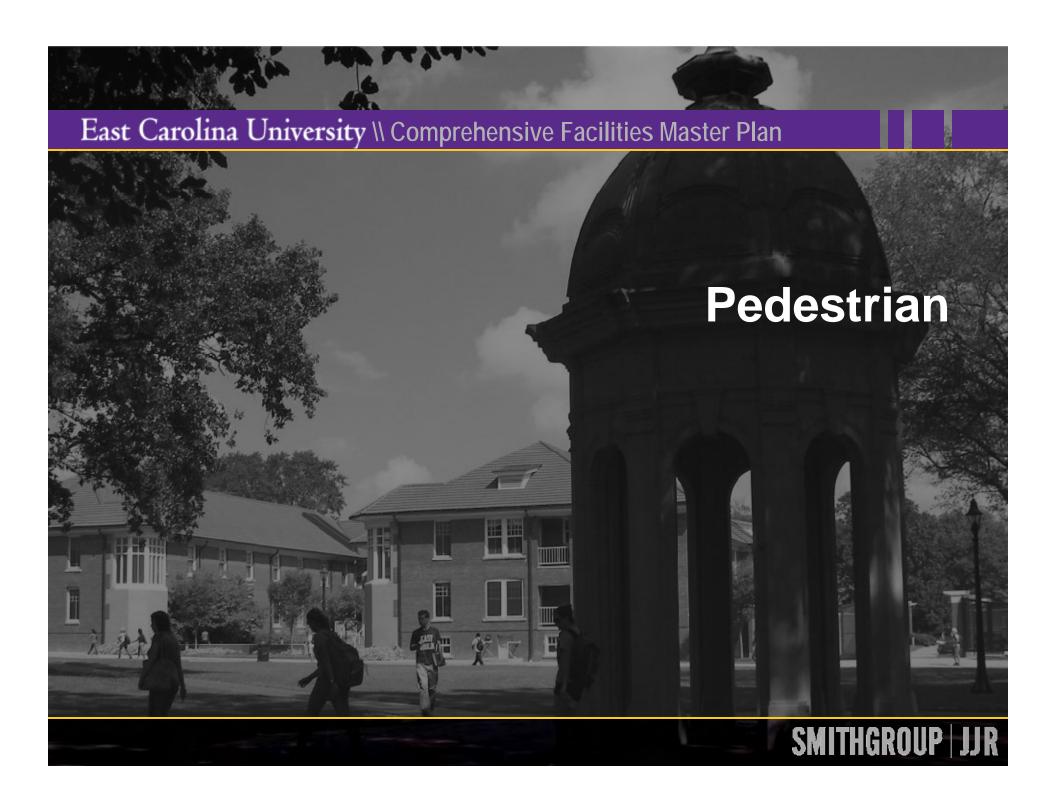


- Pedestrian
- Bicycle
- Transit
 - •Improvements to Date
 - Parking Demand Reductions
 - •Future Transit Service

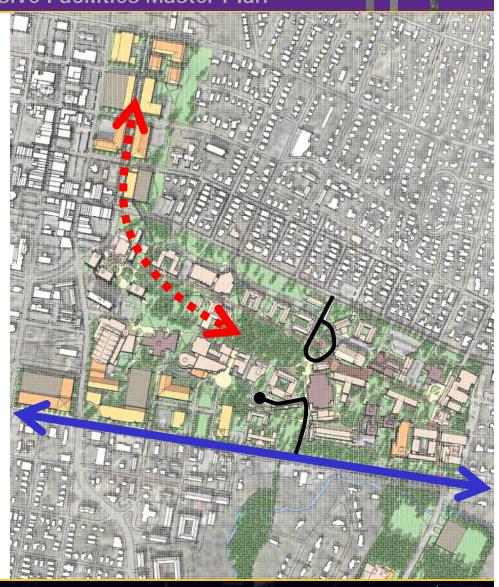
Parking

- •Main Campus Supply Changes
- Options for Main Campus
- Main Campus Cost Analysis
- •Future Main Campus Parking Zones
- •TDM Measures
- Options for Health Science Campus





- Reade Street Developments
 - •Improved connection with campus
- 10th Street Improvement
 - Complete street for all modes
 - Consistent pedestrian experience
 - Reduced conflicts
- •Founder's Drive Closure
 - Safety improvement
 - New pedestrian spine
 - •Improved connections
 - Maintain loading dock access

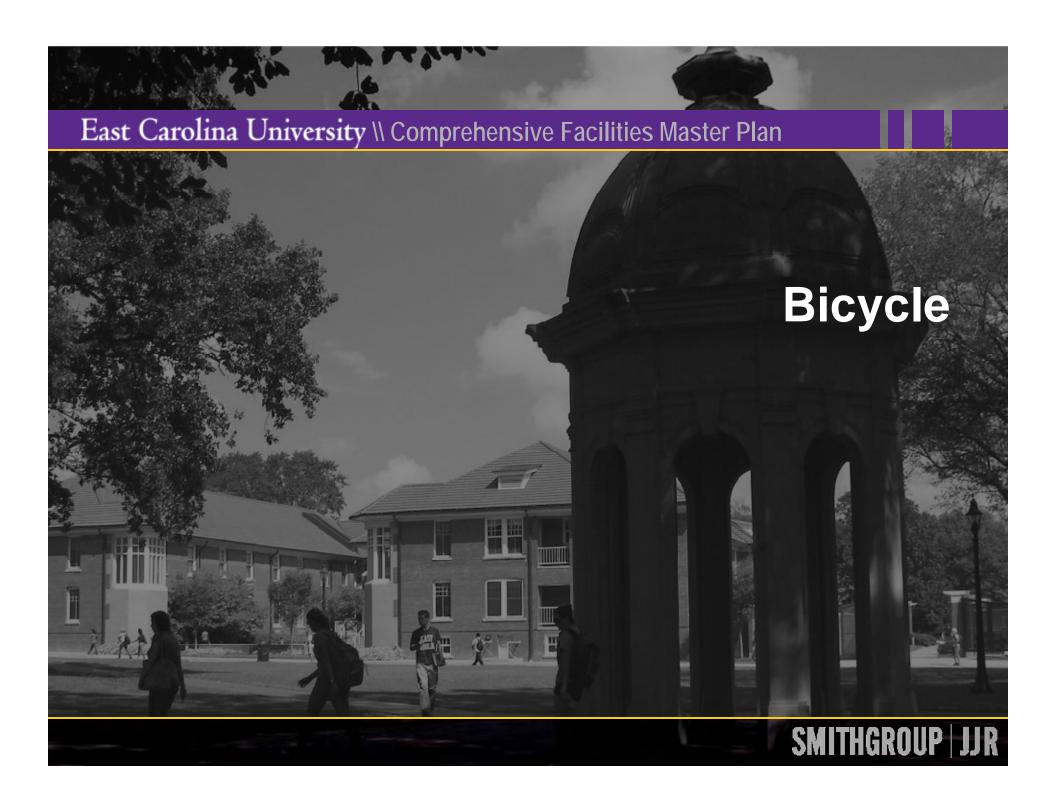


Pedestrian

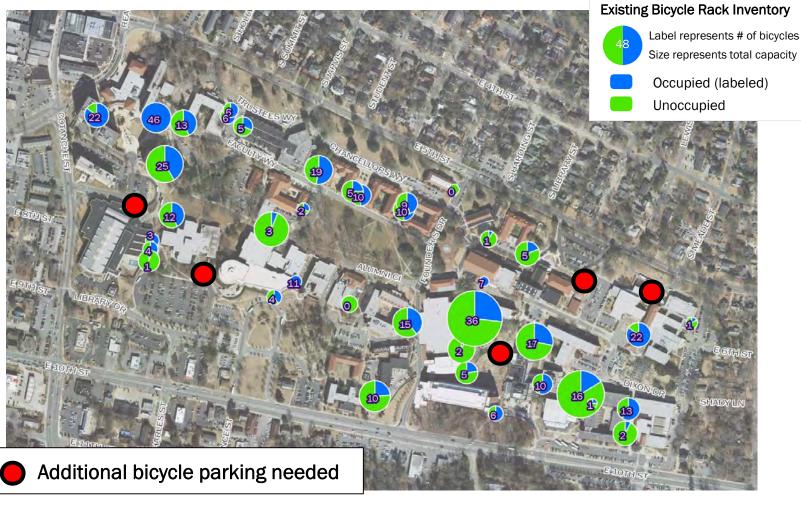
- New East-West Pedestrian Spine
 - Central path
 - Separates medical from teaching
 - Common access
- Service Drive Closure
 - Better connection to PCMH
 - Provides unimpeded flow



Pedestrian

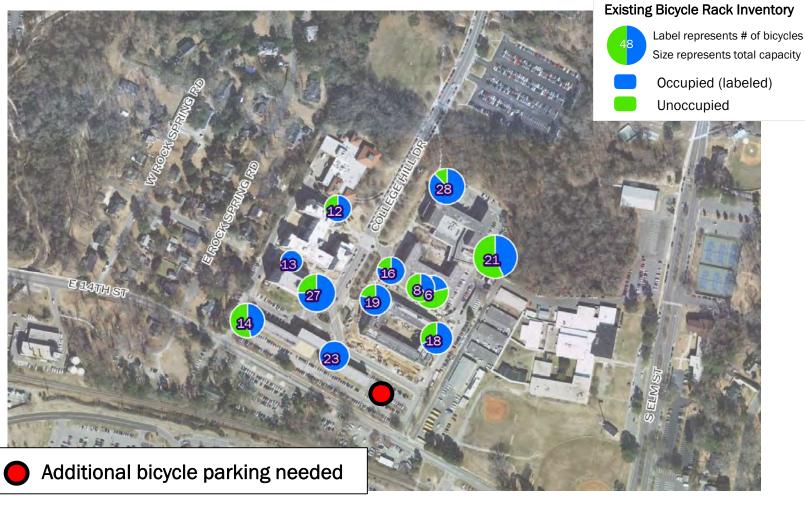


Existing bicycle supply & demand



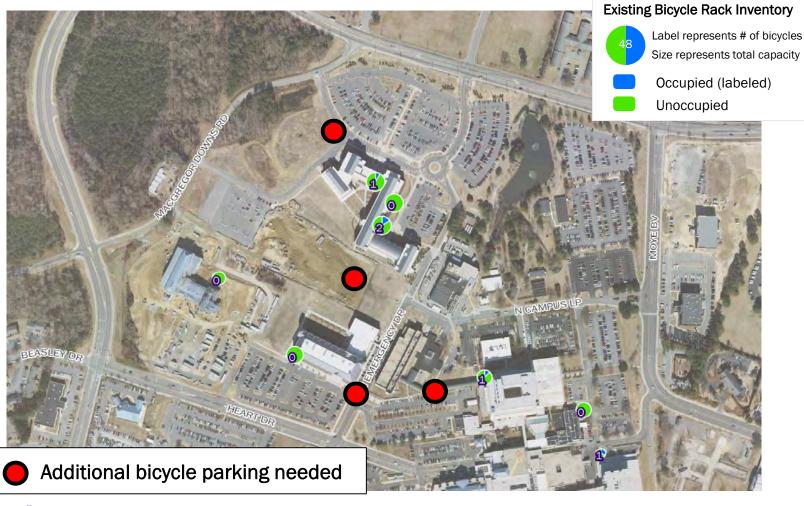
Bicycling

Existing bicycle supply & demand



Bicycling

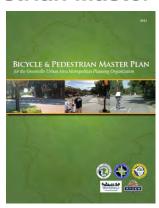
Existing bicycle supply & demand



Bicycling

Bicycle connections

•Support the Greenville Urban Area MPO Bicycle & Pedestrian Master Plan

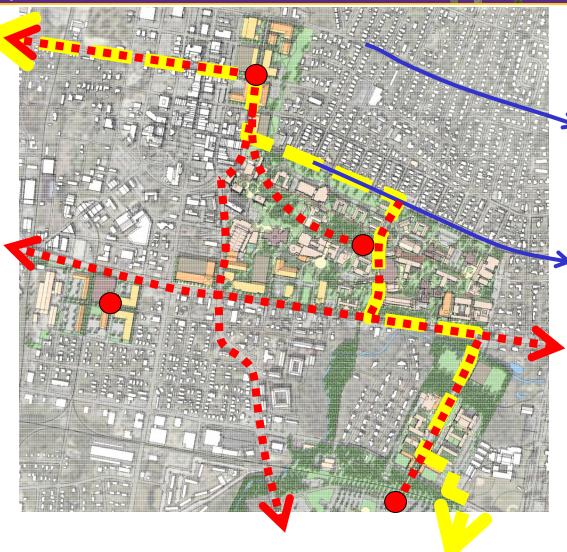


Origin / Destination areas

Possible bicycle connections

Existing bicycle routes

Proposed Greenville bike trail





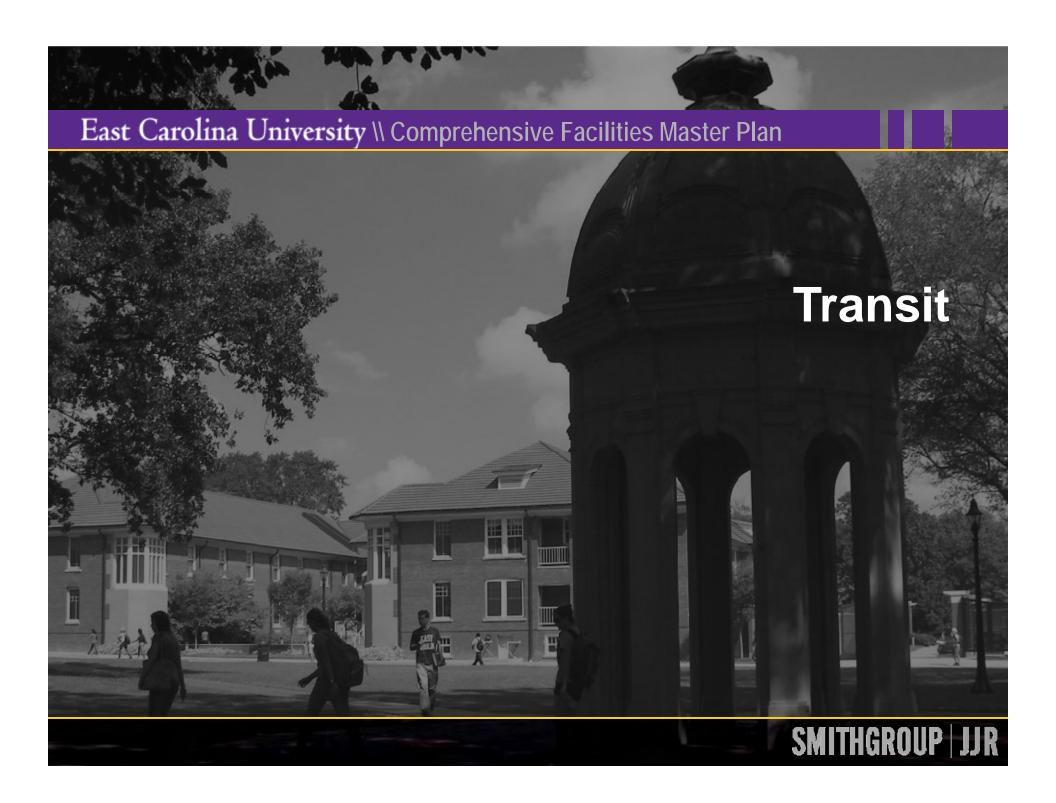
Bicycle Friendly University

Ultimate goal of bicycle planning efforts





League of American Bicyclists, 1612 K Street NW, Suite 510, Washington, DC 20006. 202-822-1333 bikeleague@bikeleague.org
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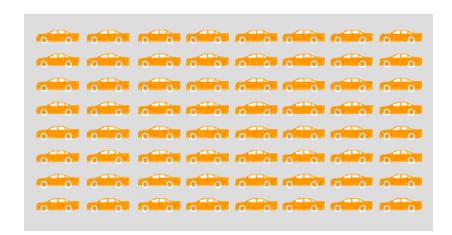
Improvements to Date

- Numerous improvements noted in Needs Document and made prior to 2010-11
 - Route reduction/consolidation
 - Stop consolidation
 - Service hour reduction
- More efficient operations still possible
 - Service hour reduction to apartment communities in afternoon
 - First Street Place serviced by 506 route
 - 304 route becomes a circulator



Transit parking reductions





The ECUSTA reduces parking demand by ~ 2,000 parking spaces at peak period!

Where would these 2,000 vehicles park?

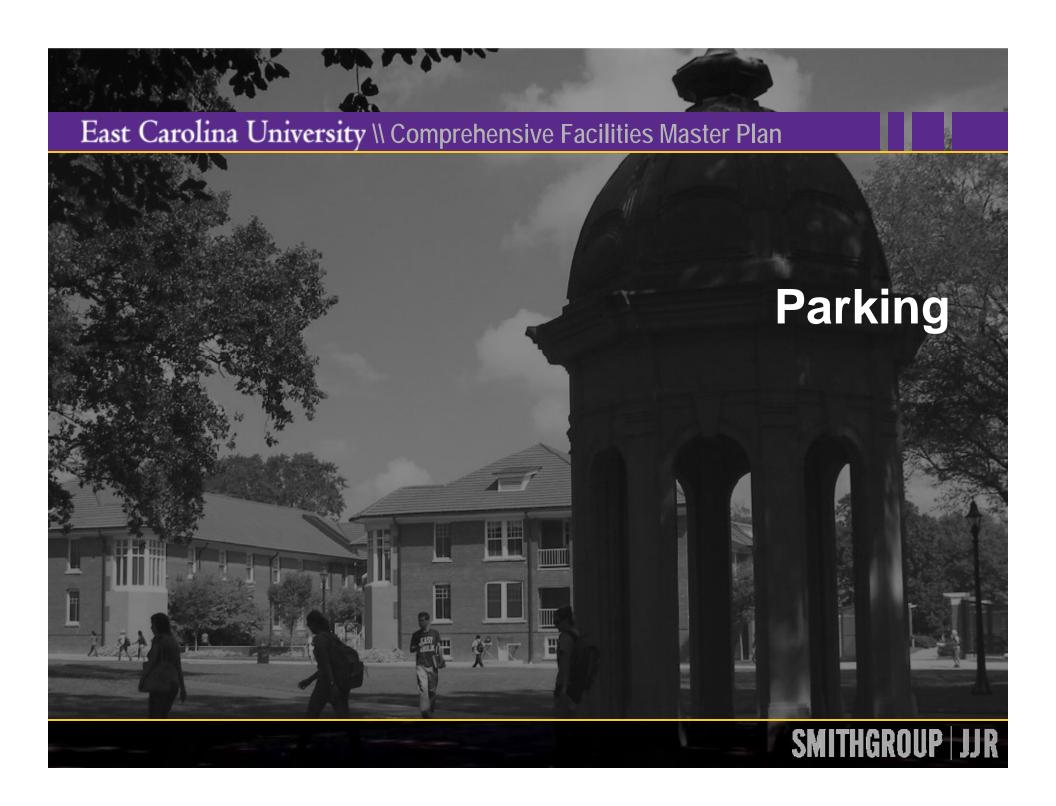


Area of additional 2,000 spaces = 600, 000 SF of land

Transit

Future Needs

- New service/maintenance center
- Campus focus vs. student focus
 - Student Transit Authority → Transit Authority
- Closer relationship with parking
 - Revenue transfer from parking
 - Closer daily operations
- New mission statement to reflect service
- Campus transit committee



Main Campus Parking Demand Assumptions

- Consistent space per person ratio –The ratio of 0.333 spaces per person through 2025
- No major changes in commuting patterns No drastic changes to commuting patterns
- <u>Linear growth of demand</u> Supported by Eva Kline Associates report





0-5 years*

- Student Union (#9)
- Bio Sciences (#1)
- •Alumni Center (#13)

5-10 years

- Academic A Building (#3)
- Student Recreation Center Expansion (#11)
- Foundation Building / Office / Swing Space (#19)
- Facilities Building (#6)
- •Police (#7)
- Parking, Environmental Safety, Mail Services (#8)
- •IT / Data Center (#20)
- Belk Hall Replacement

10-15 years

- Performing Arts
- * Also assumed Founders Drive closure within this phase



Main Campus Scenarios

- Surface Lots
- All Decks
- Remote Parking and Two Decks
- Student Union Deck, Remote Parking and New Storage Lot
- Student Union Deck, New Storage Lot and Aggressive Demand Reductions



Parking Locations

Parking

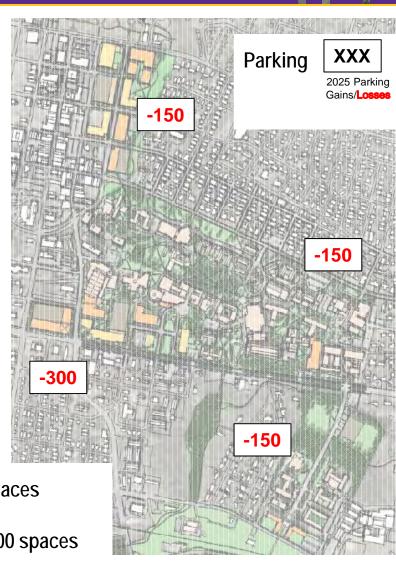




Parking Changes – Parking Surface Lots

Net Loss: ~1,000 spaces

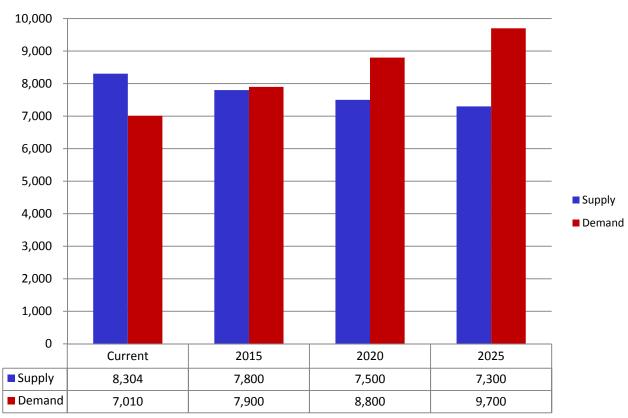
Future Deficit: ~2,400 spaces



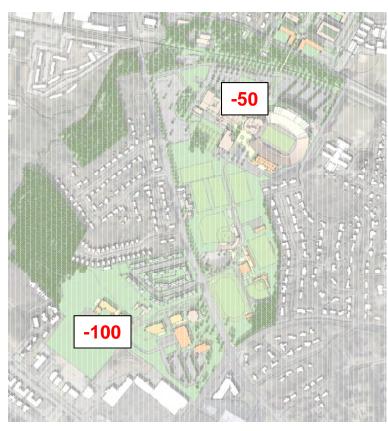
Surface Lots

Deck locations built as surface lots. Costs are low but fails to meet demand. Supply issues within 5 year horizon.

Supply vs. Demand For Surface Lots



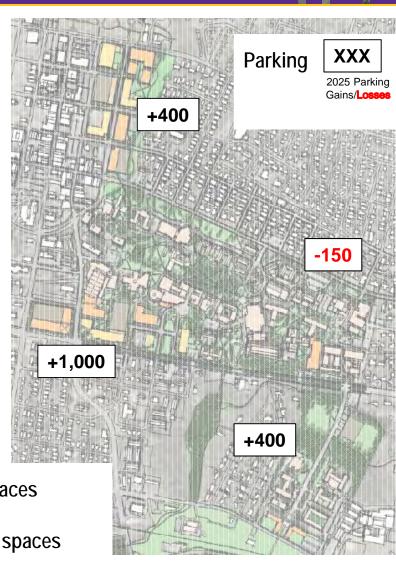




Parking Changes – All Parking

Net Gain: ~1,400 spaces

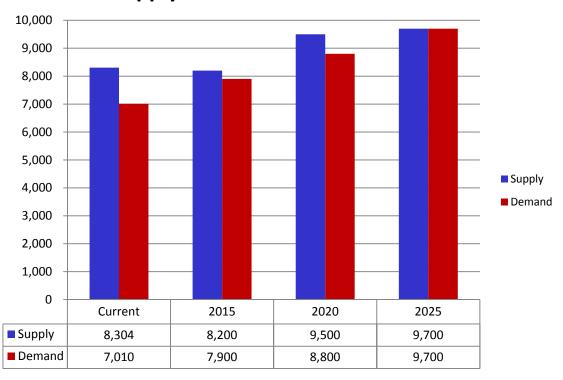
Future Surplus: ~ 0 spaces



All Decks

Deck locations in Master Plan are built. Includes 5 decks total (3,500 spaces). Demand is met but costs are high.

Supply vs. Demand For All Decks



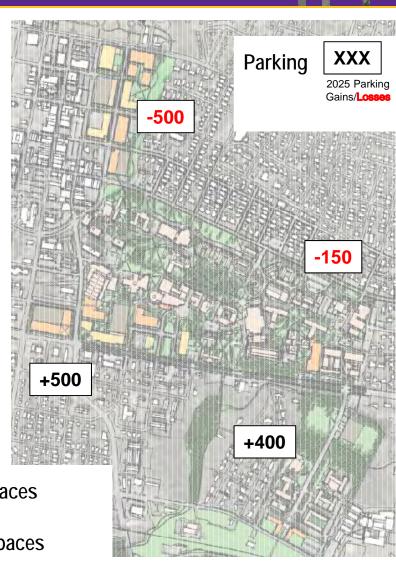




Parking Changes –
Remote Parking + Two
Parking Decks

Net Gain: ~1,400 spaces

Future Deficit: ~0 spaces

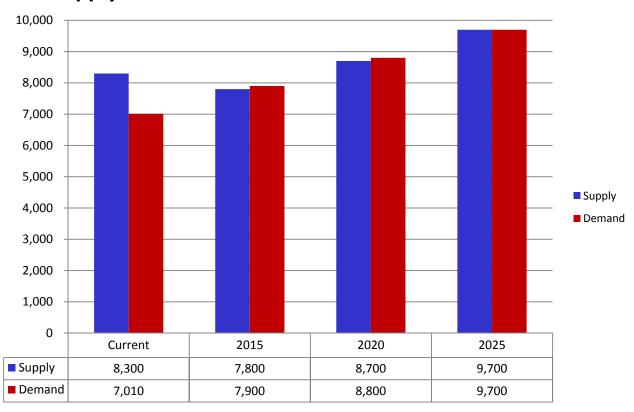


Remote Parking + Two Decks

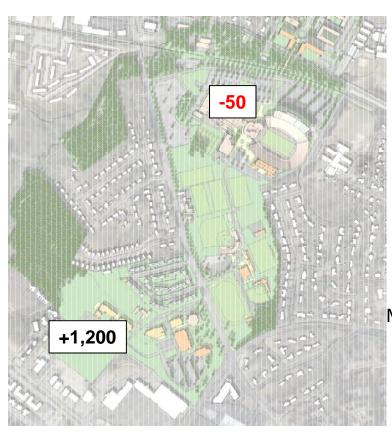
Assumes only the Student Union Deck and a second deck are constructed. 1,900 total deck spaces.

Adds new P&R lot near HHP which requires improved transit service.

Supply vs. Demand For Two Decks and New HHP Lot



Parking



+500 New Storage Lot



Parking Changes – Student Parking Deck, Remote Parking + Storage Lot Net Gain: ~1,400 spaces and 500 spaces off-campus

Future Deficit: ~0 spaces



XXX

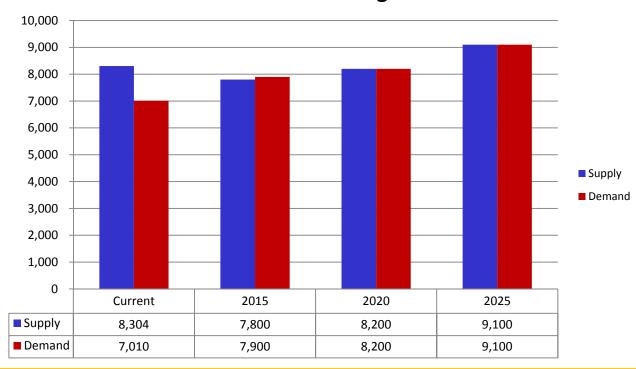
2025 Parking

Parking

Student Union Deck, Remote Parking, and Storage Lot

Assumes only the Student Union Deck is constructed. Replaces second deck with resident student storage lot. ~1,000 total deck spaces.

Supply vs. Demand For Student Union Deck, HHP Lot and New Storage Lot







+500 New Storage Lot

Parking Changes – Student
Union Deck, Storage Lot,
Aggressive Demand
Parking Reductions

Net Gain: ~600 spaces and 500
spaces off-campus

Future Deficit: ~0 spaces

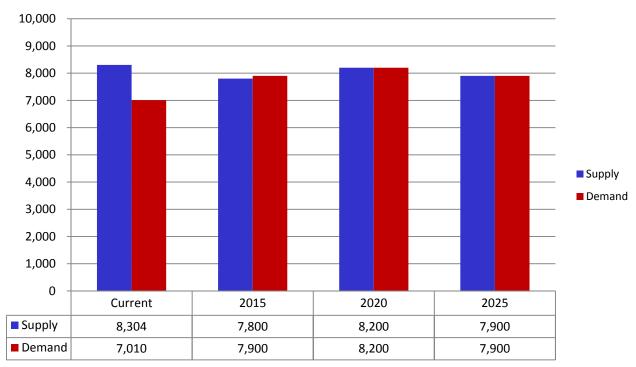


SMITHGROUP JJR

Student Union Deck, Storage Lot and Aggressive Demand Reductions

Assumes only the Student Union Deck is constructed. Includes resident student storage lot, student parking ban, and new park and ride lots. Is very aggressive on demand reductions which will require a culture change.

Supply vs. Demand For Student Union Deck, Storage Lot and Aggressive Demand Reduction



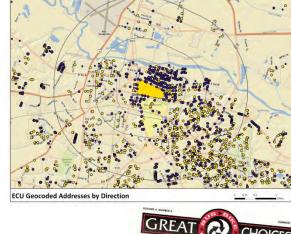


Costs Analysis

	Annual Costs										
Scenario	Deck Construction			Surface Space	Storage Lot		Transit		TDM Programs		Total
All Decks	\$	5,250,000	\$		\$	_	\$	_	\$		\$5,250,000
2 Decks and Remote Parking	\$	3,000,000	\$	585,000	\$	-	\$	247,500	\$	50,000	\$3,880,000
1 deck, Remote Parking, and a Storage Lot	\$	1,650,000	\$	585,000	\$ 2	276,000	\$	307,500	\$	65,000	\$2,880,000
1 deck, Storage Lot, and Demand Reductions	\$	1,650,000	\$	100,000	\$ 2	276,000	\$	600,000	\$	400,000	\$3,030,000

How can parking demand be reduced?

- Incentives for alternative modes
 - Guaranteed ride home program
 - Passes to park on campus
 - Reduced GREAT transit passes
- Alternative parking options
 - Park and ride lots (off-campus)
 - Storage lots (resident students)
- Parking prohibitions
 - By group
 - By distance to campus





Benefits to parking demand reduction

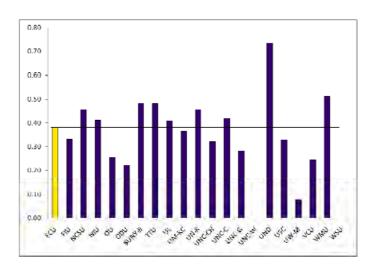
- Lower costs
 - Reduced debt service
 - Better utilization of existing programs
- Sustainability
 - Reduced emissions
 - Less impervious surface
 - Lower costs to students
- Maintains core property for academic purposes



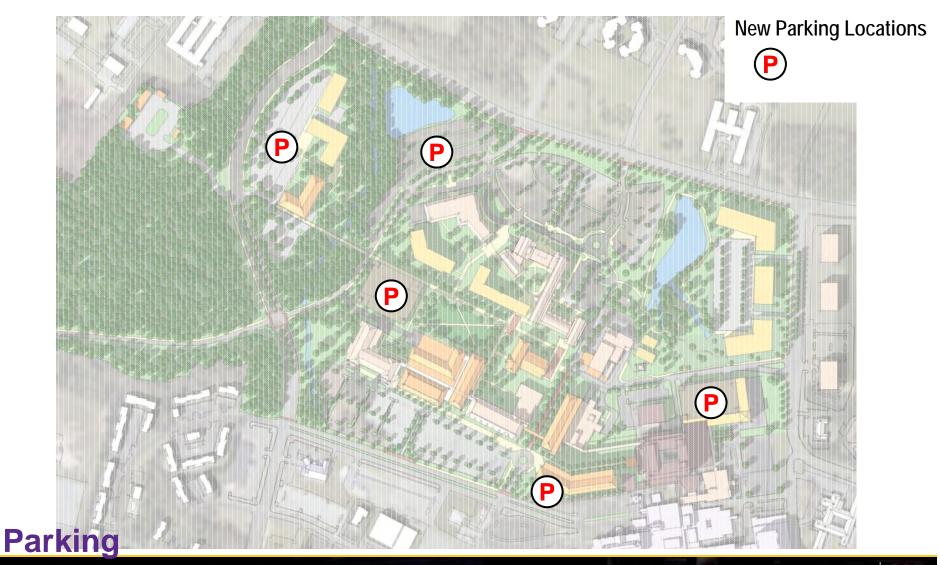


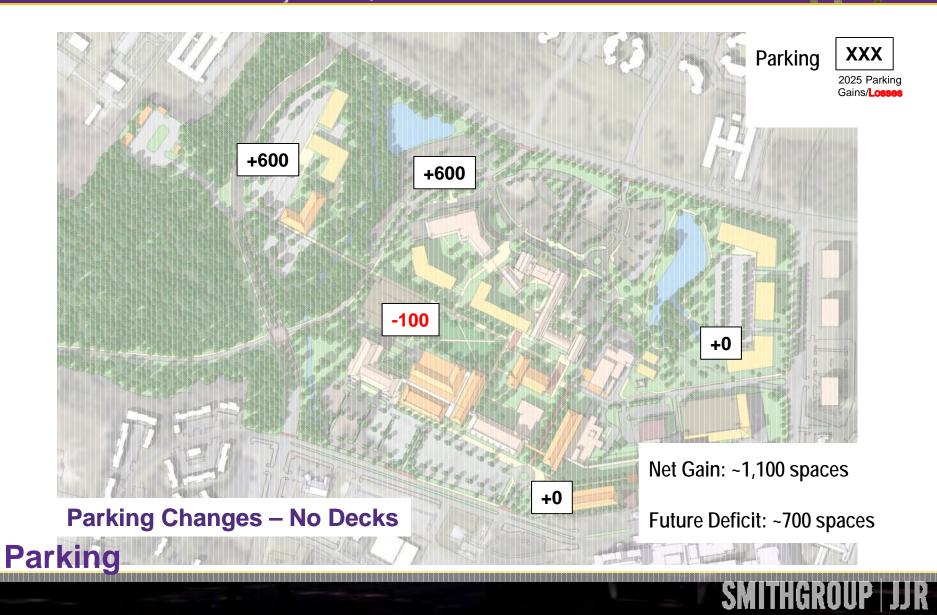
Specific Changes for ECU

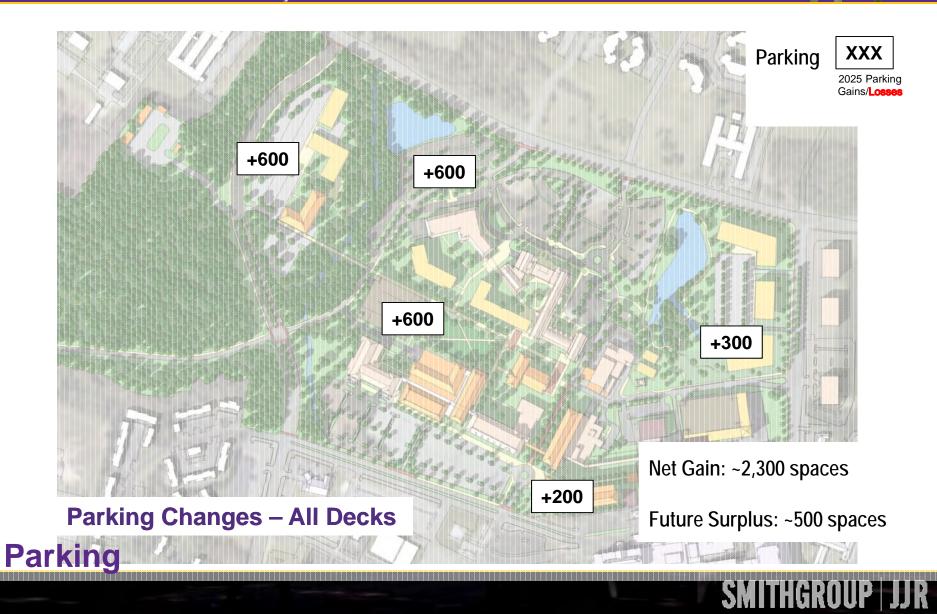
- Survey indicates potential to decrease parking demand
- Demand reductions further reduces the need for structured parking
- Most promising options:
 - Carpooling and park-and-ride options for employees
 - Storage lots and parking restrictions for students

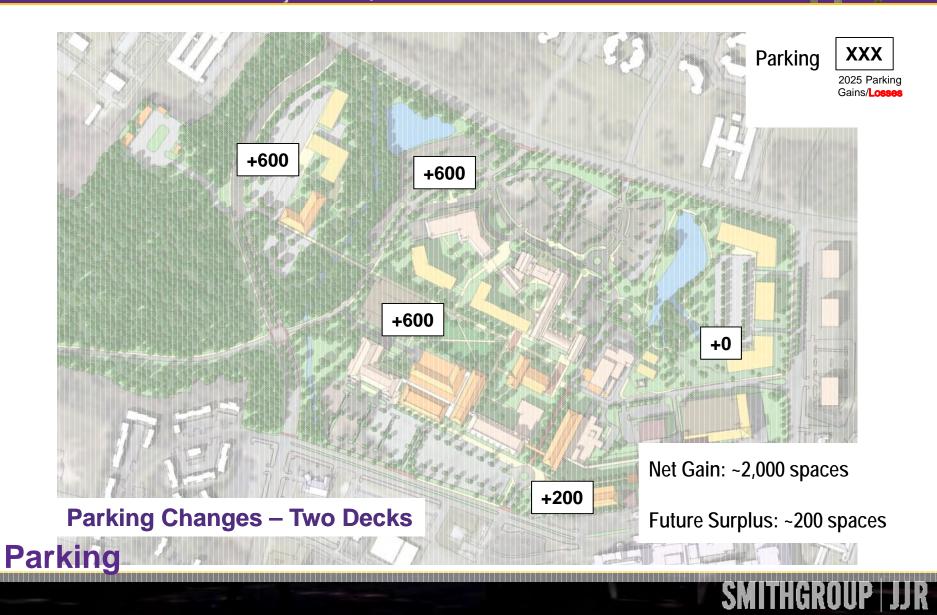












Health Sciences Campus Potential Parking Supply and Demand

Scenario	Current Spaces	Parking Increase/ Decrease	2025 Parking Supply	2025 Demand	Surplus/ Deficit
No Decks	3,100	1,100	4,200	4,900	700
All Decks	3,100	2,300	5,400	4,900	500
Two Decks	3,100	2,000	5,100	4,900	200

Health Science Campus Parking Keys

- Begin charging visitors to park
 - Consistent with PCMH
 - •Reduced financing for decks in the future
- Determine level of surplus
 - Higher surplus can provide better experience to customer
 - Additional spaces have significant cost