

Discovery Park

Update to NSLS II Town Meeting

August 1, 2018



BROOKHAVEN
NATIONAL LABORATORY



U.S. DEPARTMENT OF
ENERGY

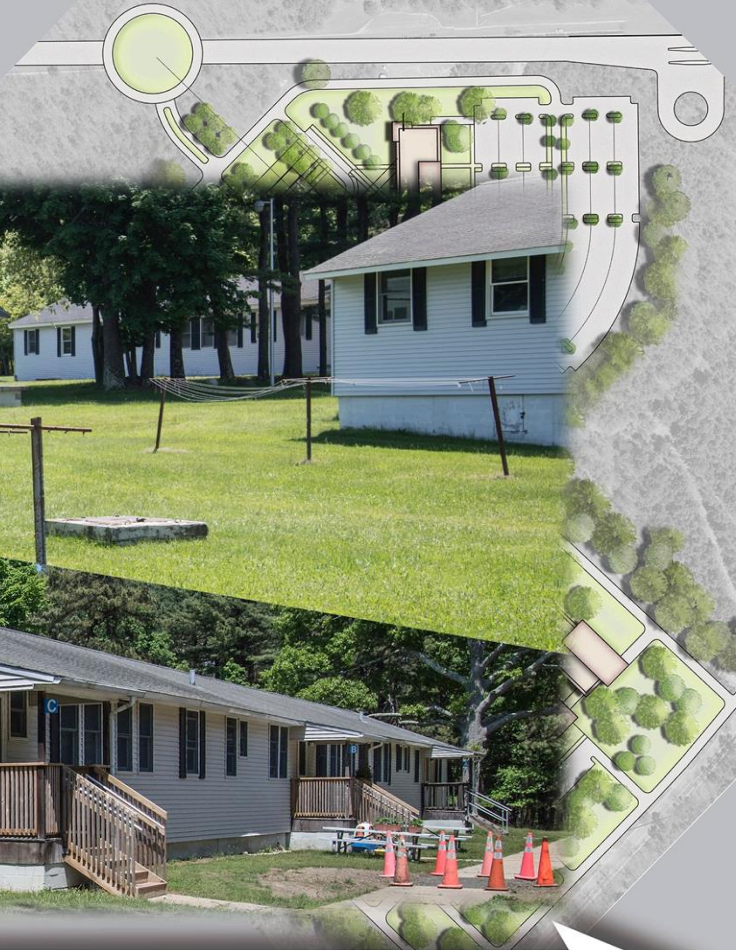
Discovery Park

Evolving to a Compelling Vision

Discovery Park Repurposes an Existing Developed Property



Existing



Proposed

Discovery Park – Broad but Integrated Impacts



Infrastructure Renewal

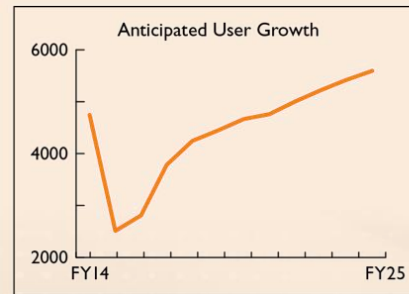
- Enables demolition of 250,000 SF of old inadequate wood buildings
- Eliminates \$34M of repair and ESH legacy deficiencies

Facility Type (Total 4.75M SF)	Adequate	Sub-standard	Inadequate
Mission Unique Facilities	20%	11%	1%
Conventional Facilities	18%	29%	21%



User Accommodation

- Enhanced one-stop guest/user experience
- Renewed user housing and collaboration space
- Accessible conference center
- Attractive “sense of place”



Economic Development

- Technology transfer, growth, and impact

Opportunities for
Discovery Park Tenants

Supply Chain Relationships

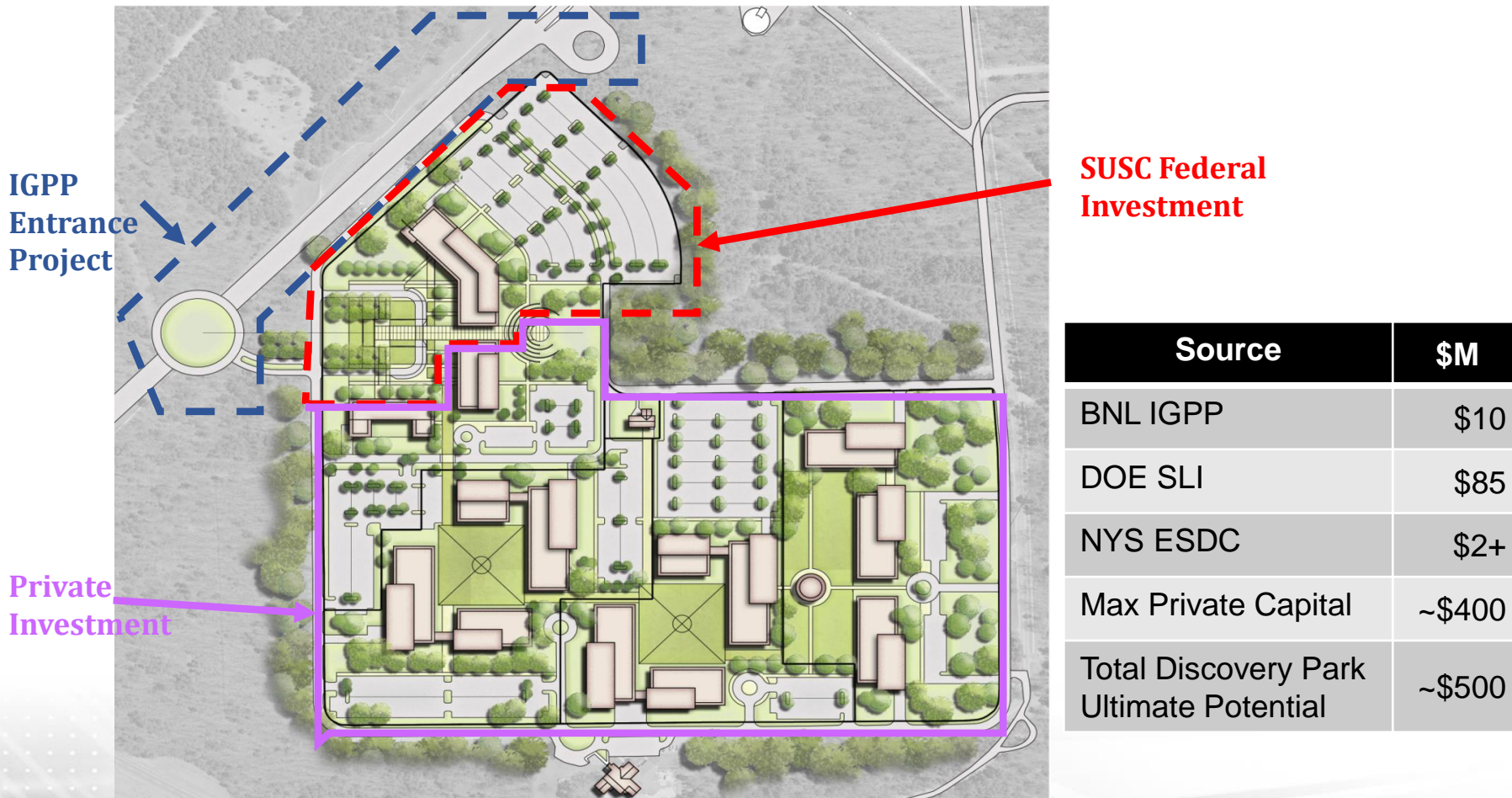
“Implant Laboratories”

Joint Institutes

Technology Incubators

Discovery Park Master Plan

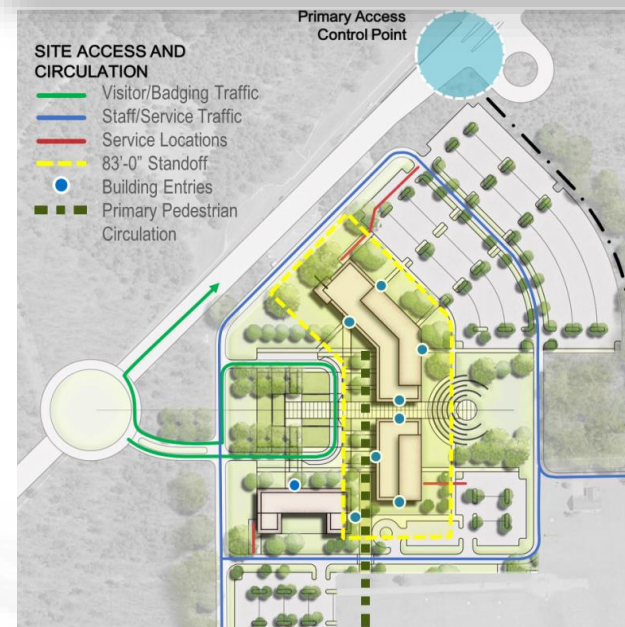
The Discovery Park Master Plan Integrates multiple investment options through phased development for maximum impact



Upton Square – A small mixed-use Community

The “Anchor Building” is proposed in the Federal Budget

- Highlights the history of BNL (Camp Upton) and perpetuates a unique historical name
- Creates an initial three-building, dense, user village, establishing a significant component of Discovery Park
- Serves as “Proof of principle” as well as an anchor for future Research Park development
- Creates a “Signature entrance” for BNL access
- Roundabout design completed and ready for construction



SUSC	The Federal Science and User Support Center
Housing	An innovative renewed housing facility
Portal to Discovery	A unique regional hub, that will leverage private funding and adjacency to BNL to inspire teachers and students in discovery
User Amenities	Selected amenities collocated in the two private buildings

Science & User Support Center (SUSC)

SLI FY19 President's Budget Request

- CD-0 Completed – December 12, 2016
- CD-1 IPR Scheduled – October 23-25, 2018
- Cost Range \$75M–\$95M
 - 70,000–120,000 GSF
- **Scope:** Signature Facility filling two key mission gaps
 - *Science User Accommodation:* Combines visitor badging, training & conferencing, all outside secure perimeter, enhancing the User experience, collaboration and community impact
 - *Infrastructure Renewal:* Consolidates support staff from 10 existing inadequate buildings into a single building - promoting operational efficiency by staff colocation
 - Directly enables demolition of approximately 85,000 GSF of inadequate, mostly WW-II era buildings and trailers, and elimination of \$18M in repair and ESH/Code issues



Schedule:

PED Funds \$2M				PED/ Construction Funds \$6M/ \$3M				Construction Funds \$25M				Construction Funds \$30M				Construction Funds \$19M							
FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
CR				CR				CR															
				Prelim. Design		Final Design				SUSC Construction and Commissioning (24 months)						Schedule Contingency (18) months							
										Site Prep													
CD-1						CD-2/ 3A		CD-3B								CD-4							

Strong Regional Support Exists

Discovery Park is an Important Element of the Regional Ecosystem

- \$20M Yaphank Train Station relocation/expansion funded in the New York State budget
 - 1 ½ cars → 4 cars → 36 cars
- \$1.8M Economic Development Grant from NYS Regional Economic Development Council to support initial utility infrastructure
- Regional utility providers are helping reduce the utility infrastructure costs for gas, electric and water

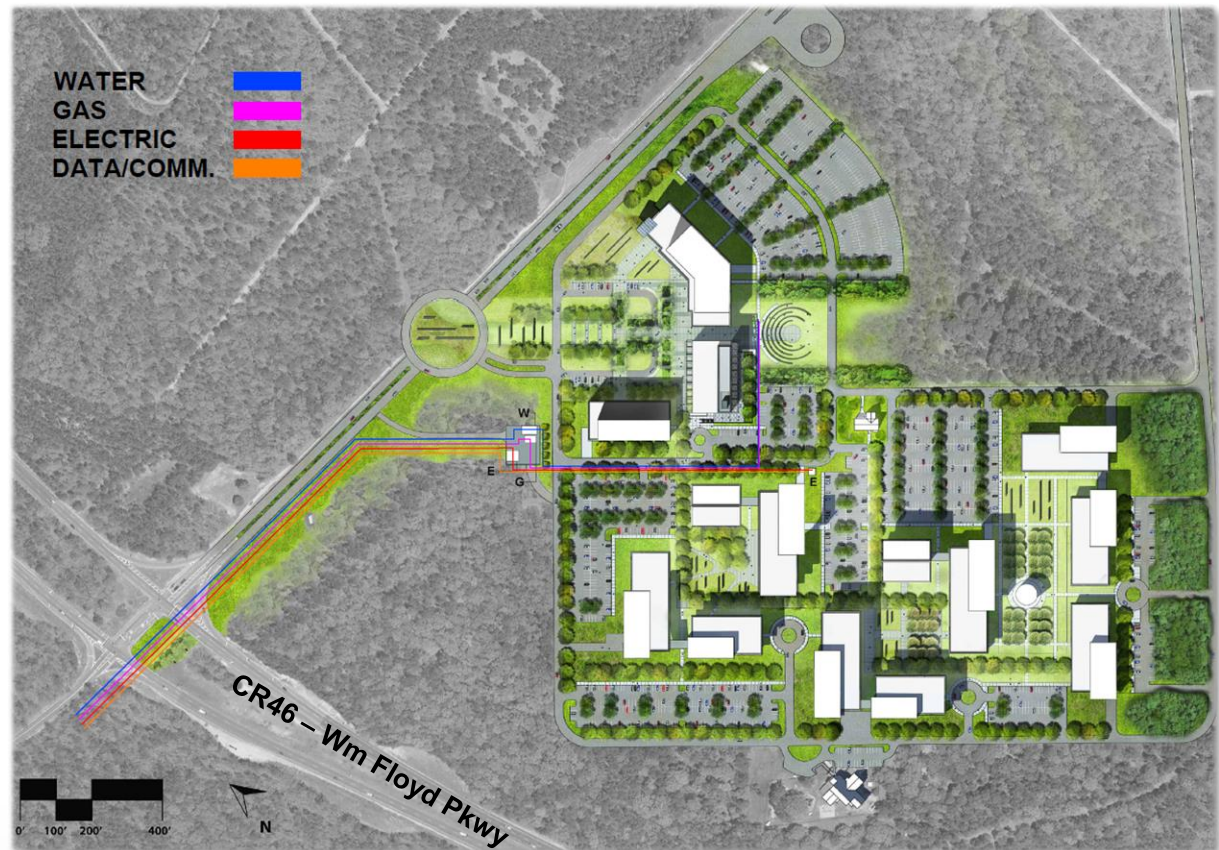


Utilities Planning

All major utilities
available along CR46

- PSEG-LI would coordinate electric with other utilities
- SCWA - Water main and alternate feed to BNL w/BFP
- National Grid – Natural Gas with reducing station
- Several Data/Com providers available
- Will define easement request and submit for DOE review/approval
- Development incentives available
- Coordinating with SUSC

Basic Utility Service Layout



Discovery Park Path Forward

The SUSC Schedule is the index for planning other elements of Discovery Park

