# National Institute of Standards and Technology Gaithersburg Campus

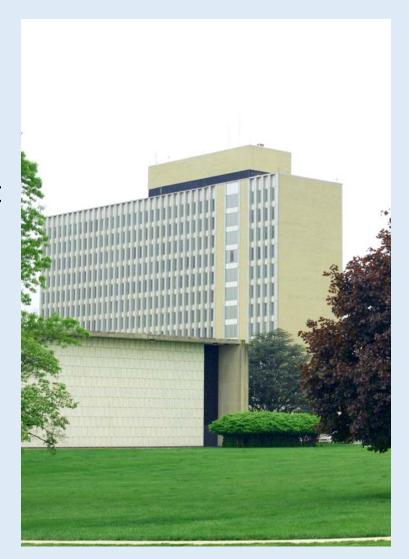
## **Draft Master Plan**

**Gaithersburg City Council Briefing February 5, 2018** 



# NIST Gaithersburg Campus Master Plan

- Improves campus access points to address congestion and security
- Maintains green perimeter and increases tree cover
- Improves stormwater management
- Modernizes older buildings and site utility infrastructure
- New construction focused on research facilities
- Respects historic district/features with new building placement
- Anticipates funding after 2020, except for one lab modernization underway



## **Quick Facts**

#### Founded in 1901 as National Bureau of Standards

NIST is a non-regulatory agency and Federal research laboratory in the US Department of Commerce

#### Campus Established in 1960's

Relocated from Washington DC as NIST Headquarters 26 buildings constructed 1961-1969 = 73% of current assigned space

#### Campus Size

579 acres

62 buildings & structures, 3.64 million gross sq. ft.

4,000 personnel, 20% FTE live within Gaithersburg zipcodes

#### Historic District - 2016

Eligible for listing on the National Register of Historic Places

#### Visitors

Approx. 33,000 visitors per year, average 250 per day

#### Conferences (2016)

Hosted 77 (many multi-day) with a total of 7,577 attendees

#### Commercial Vehicles

Approx. 18,000 vehicles per year, average 71 per day

# Existing Site Plan



# **Existing Campus**



# **Key Drivers & Issues**

#### **Current Issues**

- Aging buildings with obsolete systems
- Poor Lab Environmental Controls
- Outdated/obsolete site infrastructure
- Security & circulation issues at Gates
- Pedestrian connection improvements



## **Future Requirements: 20 years**

- Precision measurement and flexible labs for expected program growth
- Specialty labs for planned research
- Office space for improved utilization and expected 27% staff increase



## Master Plan Program

#### Mission for Advancing Measurement Science & Technology:

- Requires flexible, integrative, collaborative space
- Requires highly controlled research environments

MASTER PLAN PROGRAM	EXISTING		20 YEAR		20 YEAR	
			PROJECTIONS		GROWTH & CHANGE	
	People	Space	People	Space	People	Space
ASF = Assignable Square Feet	#	ASF	#	ASF	#	ASF
PROJECTED GROWTH						
People	4,007		5,106		1,099	
Office/Labs/Support Space		615,463		2,339,446		513,744
Subtotal - Growth	4,007	1,825,702	5,106	2,339,446	1,099	513,744
ADDITIONAL FACILITY NEEDS						
Expansions/New Facilites				93,755		93,755
TOTAL EXISTING & NEW	ASF	1,825,702		2,433,201	ASF	607,499
FACILITIES	GSF	3,641,255	est. GSF	5,050,000	est. GSF	± 1,400,000
RENOVATION					GSF	2,083,965

# Goals & Purpose of the Master Plan

- Comprehensive 20 year framework
- Appropriate facilities and infrastructure for advanced research
- Maintain attractive campus environment
- Respect & embrace campus designation as a Historic District
- Support & advance sustainable design & environmental goals
- A plan for gradual change, complete at each step
- NEPA compliance thru development of Environmental Assessment



# Campus Today



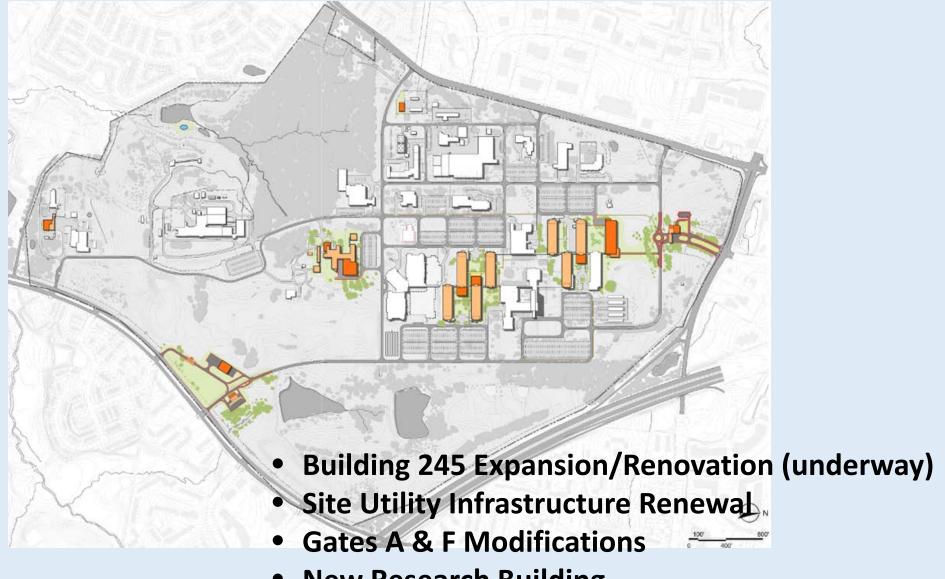
# Campus 20-Year Master Plan



# Campus 20-Year Master Plan

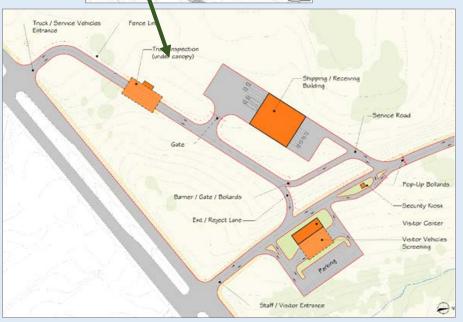


## Phase 1 – Immediate Priorities



- New Research Building
- Existing Laboratories: Phased Modernizations

# Gates A & F Improvements

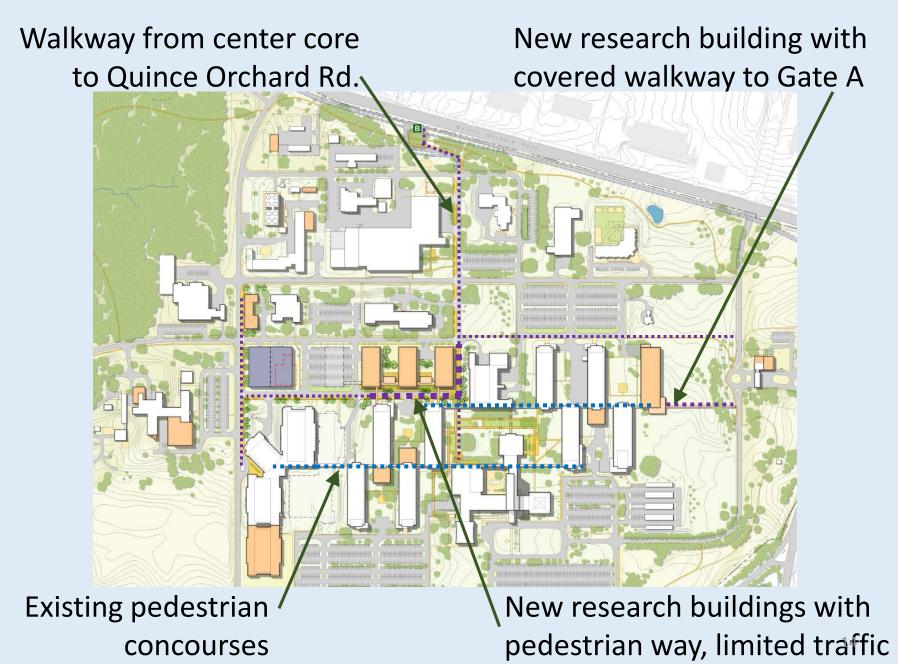








### Center Core & Enhanced Pedestrian Connections



# **Environmental Assessment (EA)**

#### Developed in accord with National Environmental Policy Act (NEPA)

- Reviews environmental consequences of:
  - Proposed Action Alternative (i.e. the Master Plan)
  - No Action Alternative
- Summarizes effects and mitigation measures and finds that:
  - For most resource areas, impacts are positive overall, with some minor temporary adverse effects during construction
- Highlights of EA
  - Minor economic benefits from staff increase, increased construction and increased productivity from campus improvements
  - 16% increase in impervious surfaces; potential long-term improvements to stormwater quality and reduction of quantity
  - Landscape with increased native vegetation, meadows, & reforestation
  - Moderate demand increase in utilities but improved efficiencies through building & system modernization
  - LEED Gold or net-zero energy facilities, extensive renewable energy

## **Providing Comments**

#### **Draft Master Plan & Draft EA Comments**

- Comment period ends March 31, 2018
- Submit written comments to:

nistMPcomments@nist.gov

or

NIST Master Plan Comments
National Institute of Standards and
Technology
100 Bureau Drive, MS-1900
Gaithersburg, MD 20899-1900



• The Draft Master Plan and Draft Environmental Assessment are available to view or download at:

https://www.nist.gov/ofpm/nist-gaithersburg-master-plan

# Simulated Flyover Video