



Smithsonian
Facilities

Capital Program Outlook

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ARTS & INDUSTRIES BUILDING



SMITHSONIAN CASTLE

Smithsonian Institution Overview

PURPOSE

For the increase and diffusion of knowledge.

VISION

The Smithsonian Institution will build on its unique strengths to engage and to inspire more people, where they are, with greater impact, while catalyzing critical conversation on issues affecting our nation and the world.

MISSION

- Create knowledge through high impact research in science, art, history, and culture.
- Preserve our national and natural heritage, as well as aspects of other cultures, through art and its curation, by maintaining important historical artifacts, and by caring for and expanding the National Collection.
- Shares knowledge with the public through compelling exhibitions, education programs, and media products, by telling the American story, and by showcasing American artistic, intellectual, and technological leadership.



By the Numbers

19 MUSEUMS

9 RESEARCH CENTERS

3 CULTURAL CENTERS

1 ZOOLOGICAL PARK

6,675 EMPLOYEES

29.3 MILLION VISITORS ANNUALLY

1 icon = 1 MILLION VISITORS

154.8 MILLION MUSEUM OBJECTS & SPECIMENS

1 icon = 15 MILLION OBJECTS

28,533 acres
11,547 Hectares
OF PROPERTY

13.9 Million sq ft
1.3 Million sq meters
OF BUILDING SPACE (OWNED & LEASED)

Smithsonian Facilities

MISSION

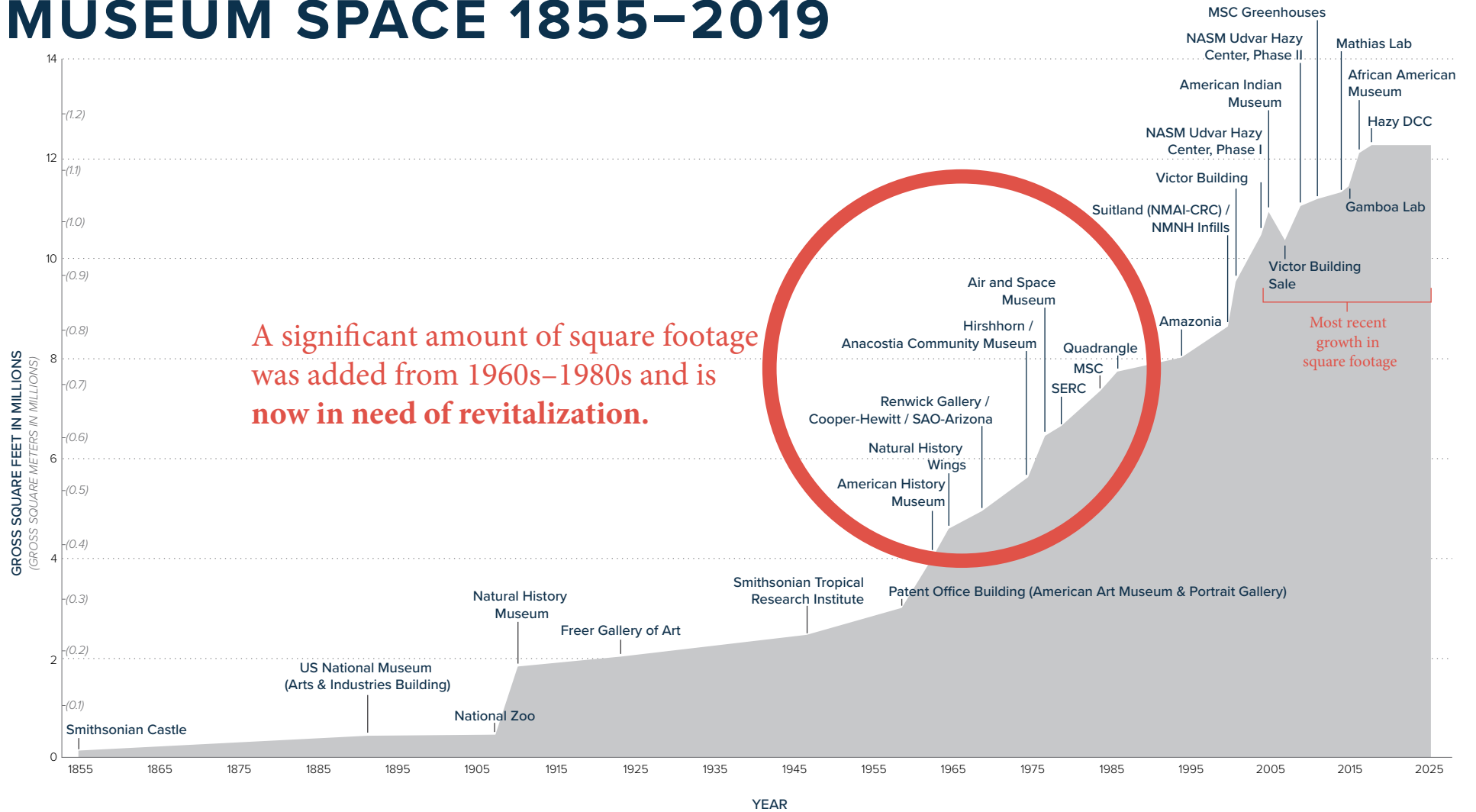
The Smithsonian Facilities (SF) programs underpin the Smithsonian's mission to advance the "increase and diffusion of knowledge." SF builds, maintains, and operates all Smithsonian buildings and collections to allow millions of our visitors access to:

- World-renowned research and scholarship;
- Exhibitions of America's treasures; and
- Programs that fully engage them in exciting learning experiences



GROWTH IN SMITHSONIAN OWNED MUSEUM SPACE 1855–2019

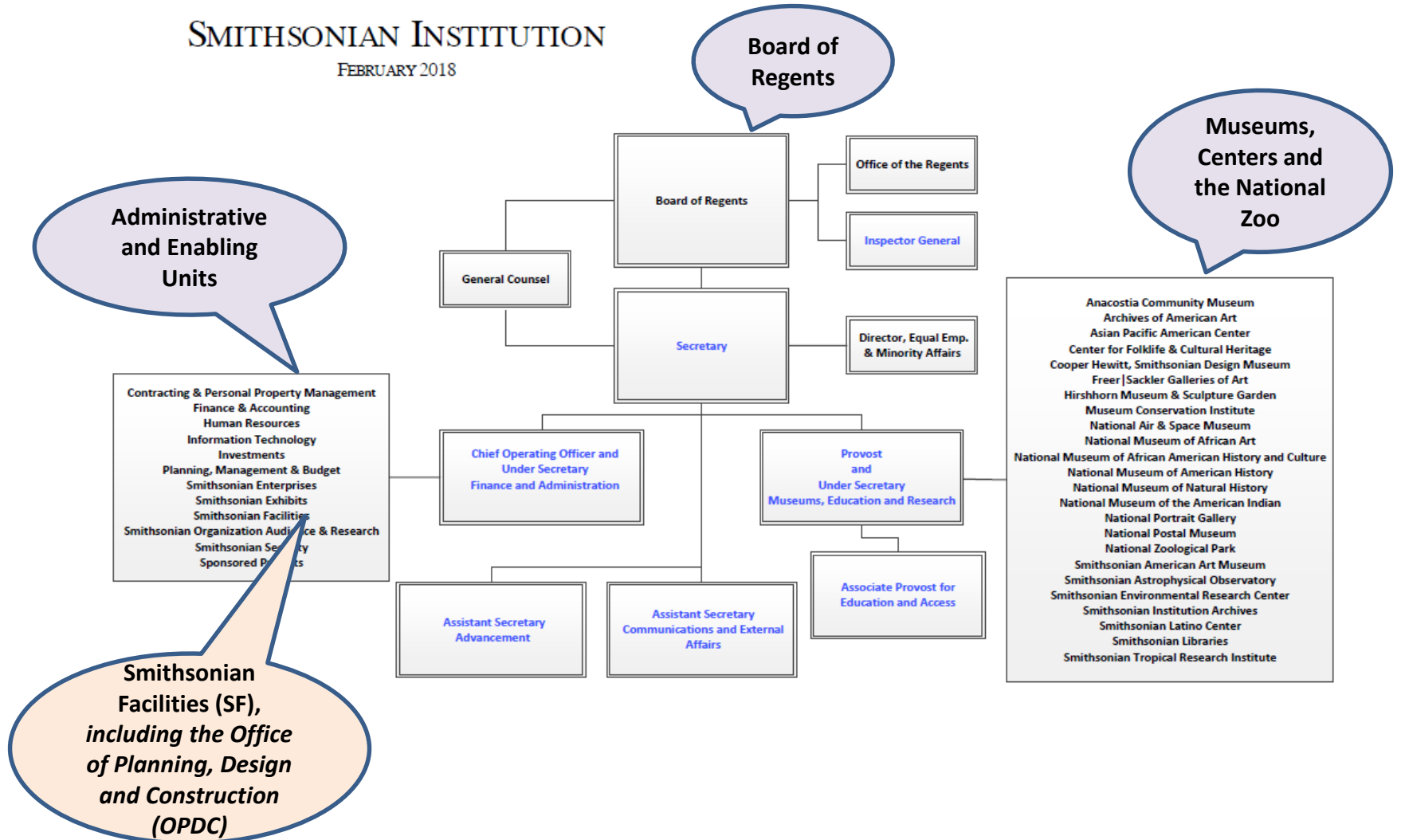
Our Facilities



An additional 1.8 million sq. ft. of leased space is also part of SI's space portfolio and maintained by Smithsonian Facilities.

Stakeholder Management

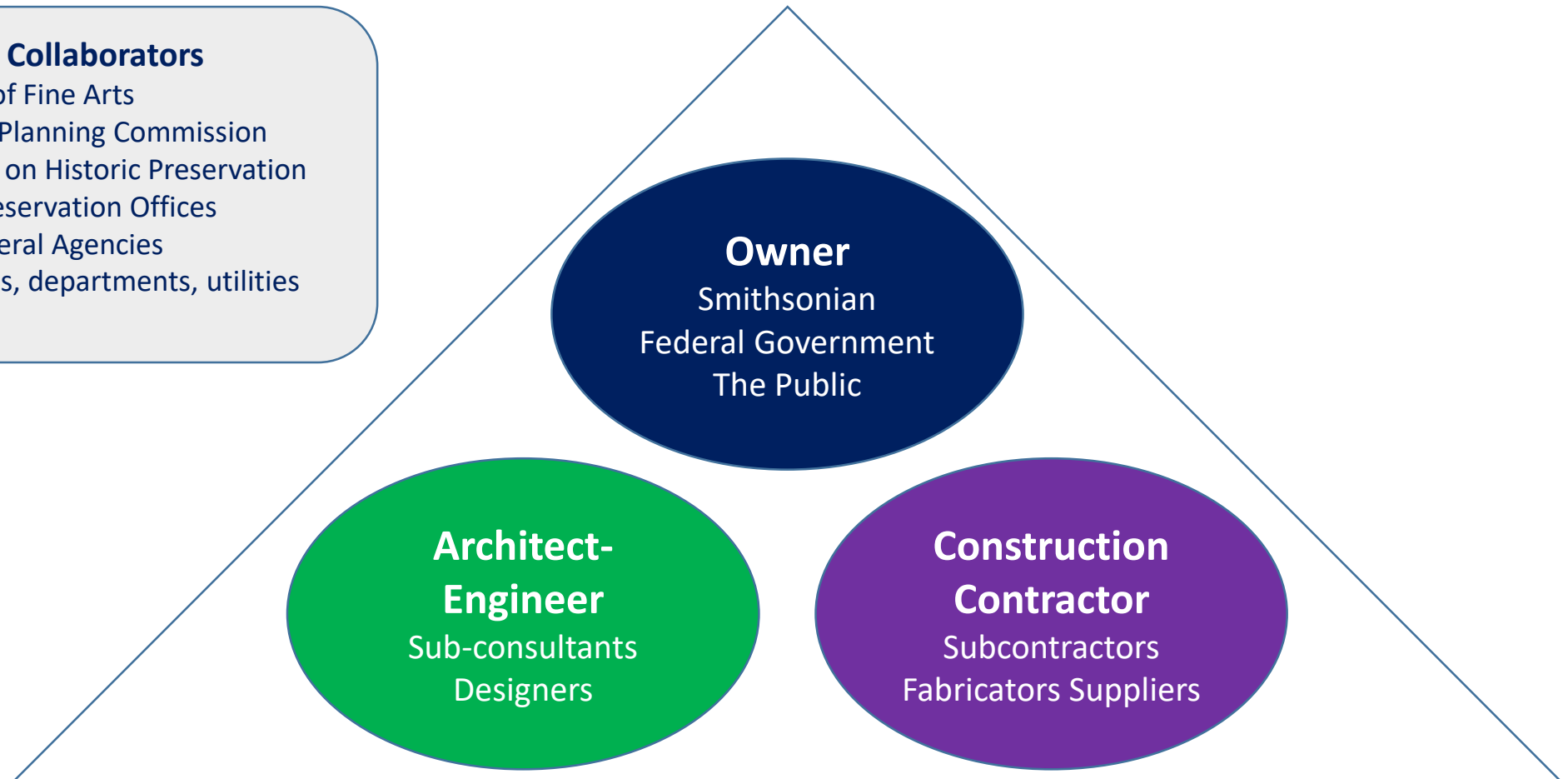
SMITHSONIAN INSTITUTION
FEBRUARY 2018



Partnering / Collaboration

External Collaborators

- US Commission of Fine Arts
- National Capital Planning Commission
- Advisory Council on Historic Preservation
- State Historic Preservation Offices
- Neighboring Federal Agencies
- Local jurisdictions, departments, utilities
- OMB, Congress

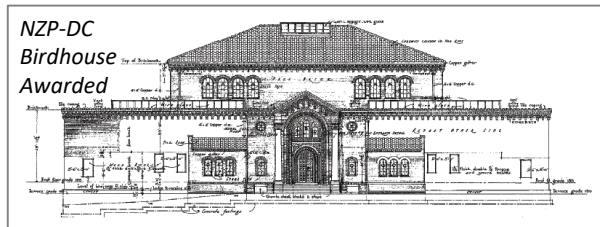


Capital Program Highlights FY2018



Construction Substantial Completion

- NMAH Roof Repairs and Improvements
- NMAI-NY AHU-5, imagiNATIONS Activity Center Galleries & Retail
- NMAI-NY Replace Cooling Plant
- NZP Renew Police Station & Replace Public Restrooms, Pavilion & Utilities (Phase 1, Restroom & Events Pavilion)



Designs Completed / Construction Awarded

- CHSDM Replace Mansion Cooling Plant
- NMNH West Court Revitalization
- NZP-DC Birdhouse
- NZP-DC Renew Police Station & Replace Public Restrooms, Pavilion & Utilities (Phase 2, Police Station)
- NZP-VA Bio-Repository



Facility Condition Index

ALL FACILITIES ARE PHYSICALLY SURVEYED to evaluate the condition of site components and systems on a 3-year cycle.

DATA IS USED TO DETERMINE Deferred Maintenance and Repair (DM&R) costs and Current Replacement Value (CRV).

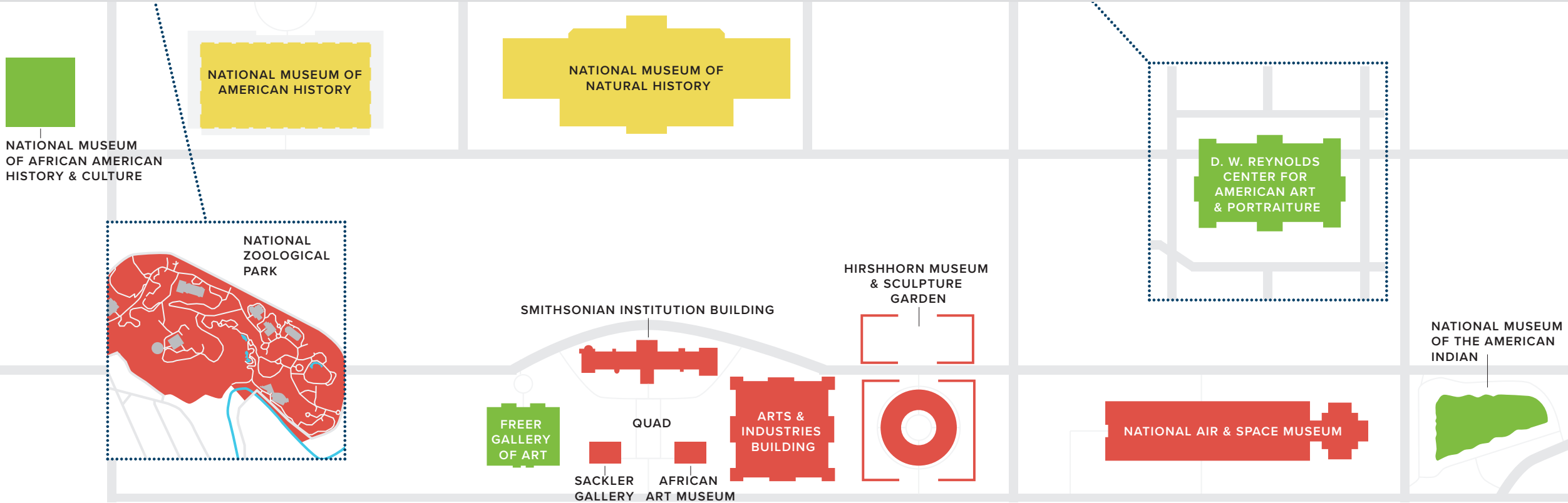
THESE METRICS PRODUCE THE FACILITIES CONDITION INDEX (FCI), which ranks the overall condition of individual facilities on a Poor-Fair-Good scale.



DC METRO REGION

FACILITY CONDITION INDEX

FY19 BASELINE (.89% CRV)

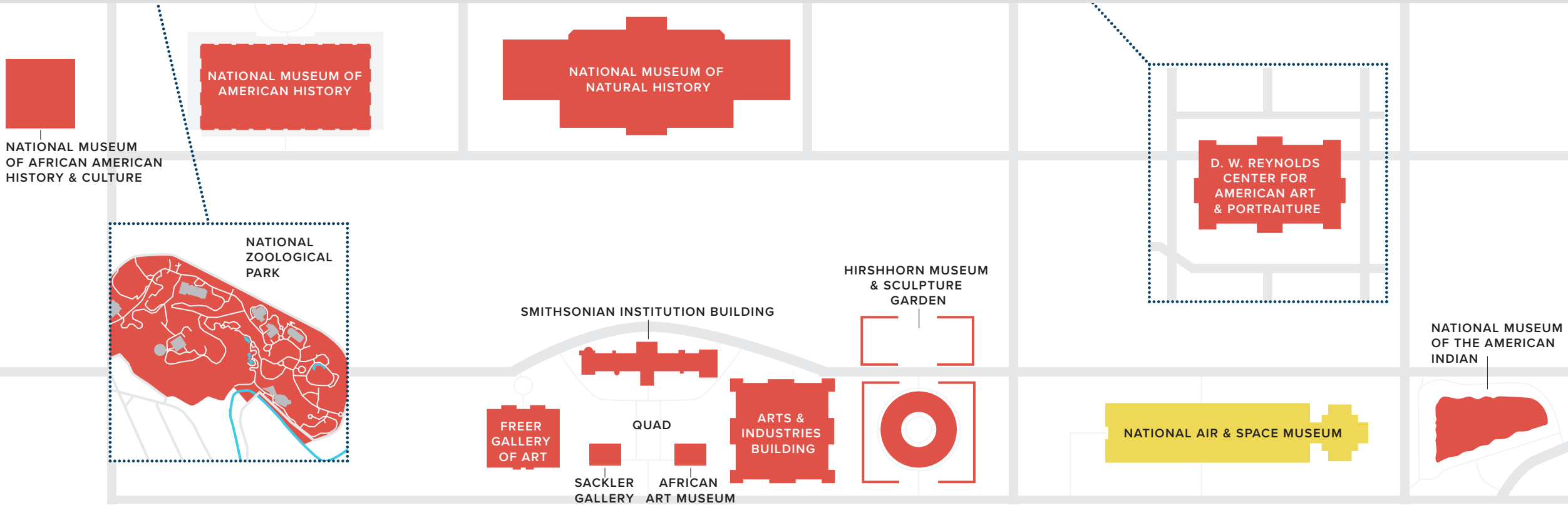


FCI: ■ Poor ■ Fair ■ Good

DC METRO REGION

FACILITY CONDITION INDEX

PROJECTED IN 2030 WITH STATUS QUO FUNDING (.89% CRV)

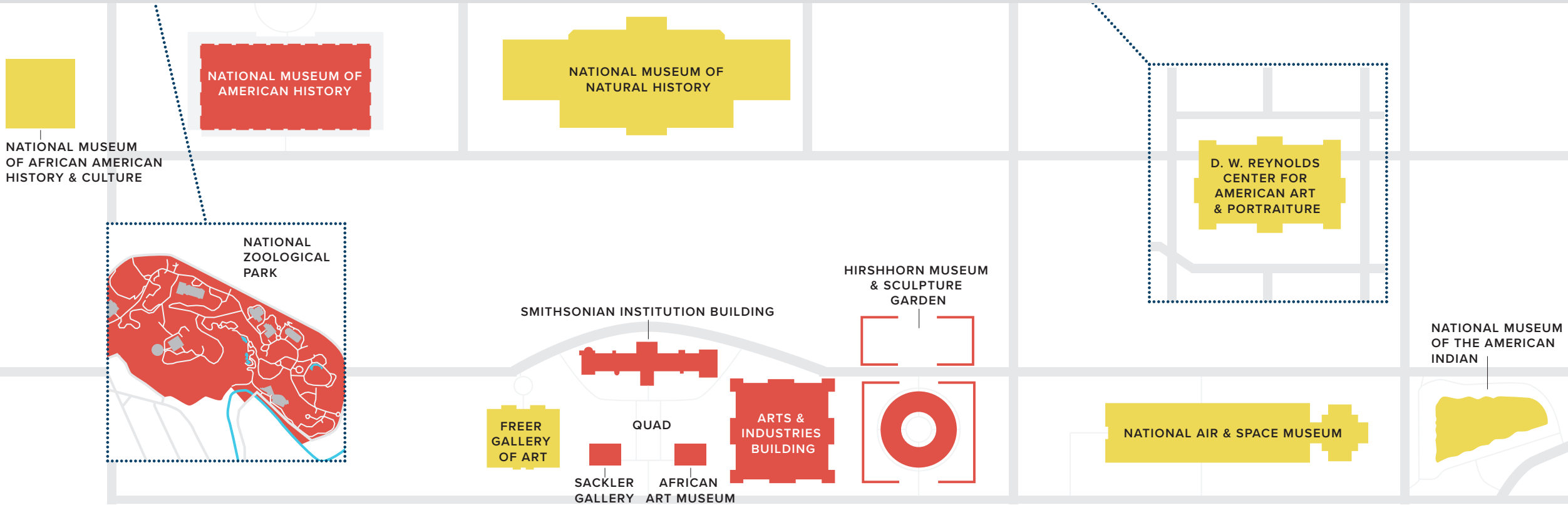


FCI: ■ Poor ■ Fair ■ Good

DC METRO REGION

FACILITY CONDITION INDEX

PROJECTED IN 2030 USING INDUSTRY AVERAGE FUNDING LEVELS (2.43% CRV)

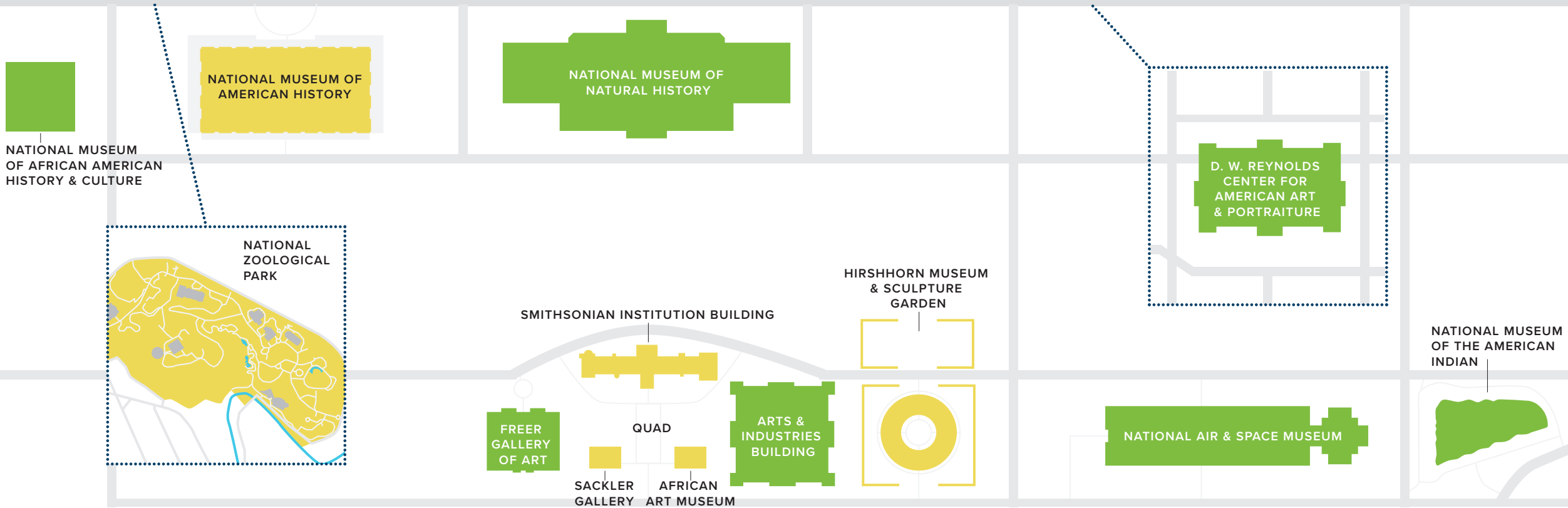


FCI: ■ Poor ■ Fair ■ Good

DC METRO REGION

FACILITY CONDITION INDEX

PROJECTED IN 2030 USING WORLD CLASS FUNDING LEVELS (3% CRV)



*Assumes that the NASM Revitalization is fully funded by 2028

FCI: ■ Poor ■ Fair ■ Good

Revitalization and Construction

Needs and Challenges over the next Decade



- National Air and Space Museum Envelope and Major Systems Renewal - underway
- National Zoological Park – continued revitalization
- National Museum of Natural History – continued revitalization
- National Museum of American History – continued infrastructure repairs leading to East Wing Renewal
- **Smithsonian Historic Core (Castle & Arts & Industries Building) – restoration and systems renewal**
- **Hirshhorn Museum and Sculpture Garden – Garden Revitalization, Roof & Exterior Wall Panels Replacements, Escalator & Elevator Modernizations, and Major systems renewal**
- **Collections Space revitalization and expansion**

Target Funding Levels

**Making a
Difference**

UNDERSTANDING OUR NEEDS

Smithsonian Facilities' budget request of 2.43% of the SI-Wide Current Replacement Value (\$8.447 B) enables the Institution to fulfill its mission and sustain facility capital and maintenance investment needs.

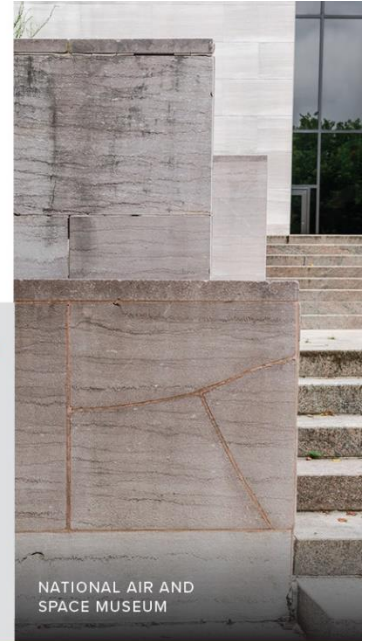
FACILITIES CAPITAL \$300M

Safety/Security
Revitalization
Addressing Deferred
Maintenance

FACILITIES MAINTENANCE \$150M

Deferred Maintenance
Predictive &
Preventive Maintenance

REQUEST FOR
**2.43% OF CURRENT
REPLACEMENT VALUE (\$8.447B)**



Facilities Capital FY2018 – FY2020

Category	FY18 Final	FY19 Requirements	FY19 Request	FY19 Final	FY20 Requirements	FY20 Request
Facilities Planning and Design (FPD)	\$20.3M	\$29.25M	\$17.0M	\$17.0M	\$33.3M	\$29.63M
Revitalization NASM	\$198.0M	\$127.00M	\$127.0M	\$210.0M	\$127.0M	\$100.0M
Revitalization All Others	\$83.603M	\$125.75M	\$75.50M	\$76.5M	\$139.7M	\$89.4M
<i>Subtotal Revit + FPD</i>	<i>\$301.903M</i>	<i>\$282.00M</i>	<i>\$219.5M</i>	<i>\$303.5M</i>	<i>\$300.0</i>	<i>\$219.0M</i>
New Construction / Suppl.	\$10.000M	\$18.00M	\$0.0M	\$0.0M	\$0.0M	\$0.0M
TOTALS	\$311.903M	\$300.00M	\$219.5M	\$303.5M	\$300.0M	\$219.0M

FACILITIES PLANNING & DESIGN (FPD): This funding enables development of project baselines, including scope, cost, and schedule prior to receiving revitalization and construction funds to perform the work. FPD funding provides for needs assessments, feasibility studies, master planning, and design for all capital projects.

REVITALIZATION: Investment in revitalization projects provides for the replacement of failing or failed major building systems and equipment and for major renovation projects to preserve the buildings. It primarily includes the exterior envelope, HVAC, electrical, and other utility systems. Projects also entail modifications to ensure compliance with life-safety regulations, accessibility requirements, code compliance, restoration of historic features, and modernization.

CONSTRUCTION: Capital Construction funding may be authorized to support the creation or expansion of a mission, program and/or facility footprint.

Upcoming Capital Projects FY19-20 Planning/Design Starts

- **HMSG** – Design Roof & Exterior Wall Panels Replacements
- **HMSG** – Design Escalator & Elevator Modernizations
- **Historic Core (Castle & Arts & Industries Building)** – Design Restoration and Systems Renewal
- **NZP** – Design on-going revitalization
- **NMNH** – Design on-going revitalization
- **NMAH** – design on-going infrastructure repairs
- **SERC**- Design on-going master plan implementation
- **Suitland** – Collections Space Framework designs
- Various Anti-Terrorism and Security Systems upgrades

Upcoming Capital Projects

FY19-20 Construction/Renovation Starts

- **Castle** – Façade Assessment and Stabilization
- **HMSG** – Replace Roof and Exterior Wall Panels
- **HMSG** – Escalator & Elevator Modernizations
- **Freer/Quad** – Mass Notification
- **Freer** – Upgrade Leak Detection System in Collections Storage
- **NMAH** – Improve Objects Processing Facility
- **NMAH** - Improve Kitchen Grease Ventilation Performance
- **NMNH** – Upgrade Electrical Systems and Components
- **NMAI-NYC** – Replace and Modernize Electronic Security
- **NMAI-CRC** – Upgrade Emergency Generator and Switchgear
- **MSC** – Replace Air Handling Units

Questions?

