Capital Program Outlook

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Office of Planning, Design and Construction

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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
28,533 acres
13.9 Million sq ft
154.8 Million Museum Objects & Specimens
13.9 Million visitors annually

= 1 Million Visitors
= 15 Million Objects
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
A significant amount of square footage was added from 1960s–1980s and is now in need of revitalization.

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

Board of Regents

- Office of the Regent
- Inspector General
- Director, Equal Employment & Minority Affairs

Secretary

- Chief Operating Officer and Under Secretary
  - Finance and Administration

Assistant Secretaries

- Assistant Secretary
  - Advancement
- Assistant Secretary
  - Communications and External Affairs

Provoest and Under Secretary

- Museums, Education and Research
- Assistant Provost for Education and Access

- Administrative and Enabling Units
  - Contracting & Personal Property Management
  - Finance & Accounting
  - Human Resources
  - Information Technology
  - Investments
  - Planning, Management & Budget
  - Smithsonian Enterprises
  - Smithsonian Facilities
  - Smithsonian Organizations Audience & Research
  - Smithsonian Society
  - Sponsored Projects

Smithsonian Facilities (SF), including the Office of Planning, Design and Construction (OPDC)

Museums, Centers and the National Zoo

- Anacostia Community Museum
- Archives of American Art
- Asian Pacific American Center
- Center for Folklife & Cultural Heritage
- Cooper Hewitt, Smithsonian Design Museum
- Freer | Sackler Galleries of Art
- Hirshhorn Museum & Sculpture Garden
- Museum Conservation Institute
- National Air & Space Museum
- National Museum of African Art
- National Museum of African American History and Culture
- National Museum of American History
- National Museum of Natural History
- National Museum of the American Indian
- National Portrait Gallery
- National Postal Museum
- National Zoological Park
- Smithsonian American Art Museum
- Smithsonian Astrophysical Observatory
- Smithsonian Environmental Research Center
- Smithsonian Institution Archives
- Smithsonian Latino Center
- Smithsonian Libraries
- Smithsonian Tropical Research Institute
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

Owner
Smithsonian
Federal Government
The Public

Architect-Engineer
Sub-consultants
Designers

Construction Contractor
Subcontractors
Fabricators Suppliers
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
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

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

FCI: Poor Fair Good
PROJECTED IN 2030 USING INDUSTRY AVERAGE FUNDING LEVELS (2.43% CRV)
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
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

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

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