UMCES 2018-2022:
Facilities Master Plan Update

UMCES: Strategic Initiatives
Environmental Intelligence

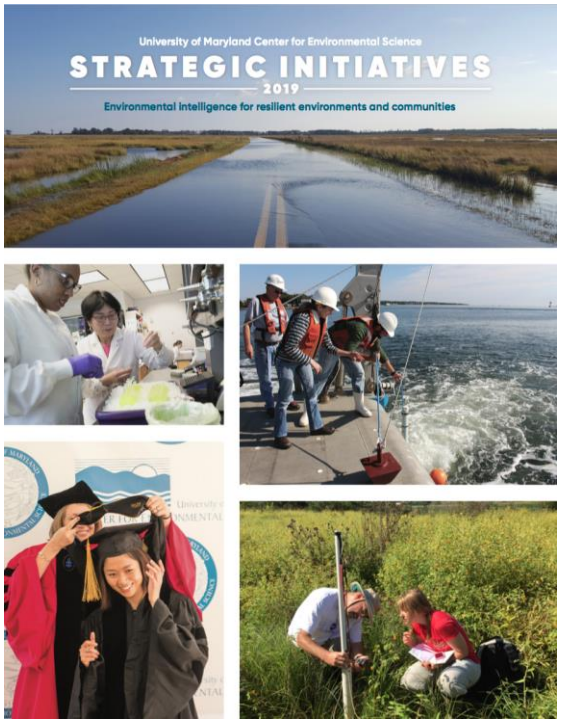
Goal 1: Advance Scientific Innovation

Goal 2: Promote the Transfer, Engagement, and Communication of Scientific Information

Goal 3: Transform Lives Through Innovative Educational Experiences

Goal 4: Entrepreneurship In the Environmental Space

Goal 5: Cultivate a Diverse, Inclusive, and Equitable Scientific Workforce



2017-2018

UMCES Achievements:
Environmental Awards for Facilities Management

2018 Governor's Citation

Maryland Office of the Governor

For recognition of the successful efforts of UMCES in energy related initiatives while supporting educational research for the Chesapeake Bay's restoration.

2018 Certificate of Recognition

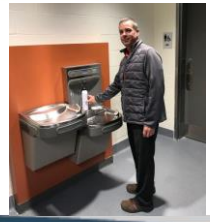
Maryland Energy Administration (MEA)

For efforts to expand both Energy Efficiency and Promote Renewable Energy

2018 Wintergreen Award

U.S. Green Building Coucil, MD chapter (MD-USGBC)

For R.V. Truitt Replacement Laboratory, Catagory: Higher Education building



2018 Green Registry Leadership Award

Maryland Department of Environment (MDE)

For commitment to the implementation of sustainable practices, the demonstration of measurable results, and the continual improvement of environmental performance

2018 Regents Staff Award

Brian Duke, UMCES Facilities Manager

Category of efficiency and effectiveness for energy efficient upgrades in lighting, and first to install high profile reusable water bottle filling stations to reduce the use of plastic water bottles on campus.

Deliberative Process

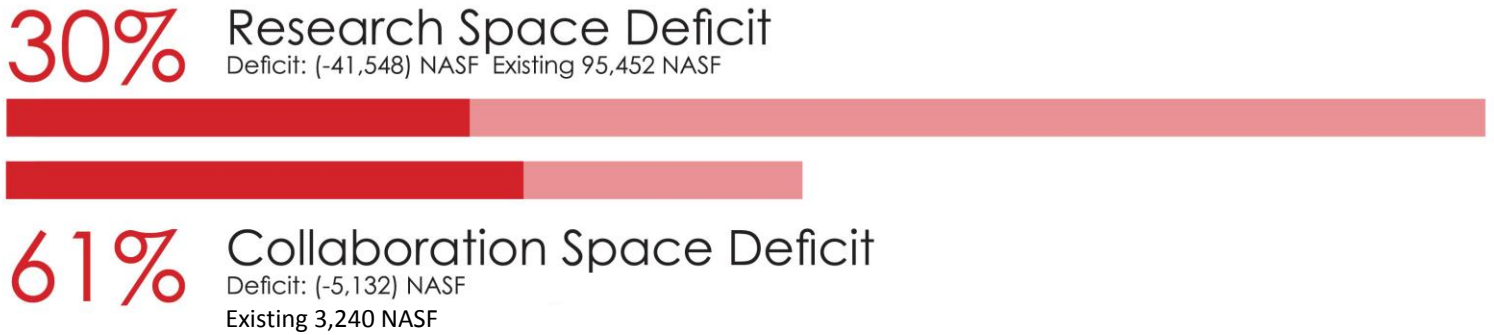
Planning Principles

1. **Research Infrastructure Renewal**
2. **Flexible Laboratory Space Management**
3. **Collaboration & Engagement**
4. **Energy Efficiency & Sustainability**
5. **Resiliency & Hazard Mitigation**
6. ***A Better Maryland* Principles**

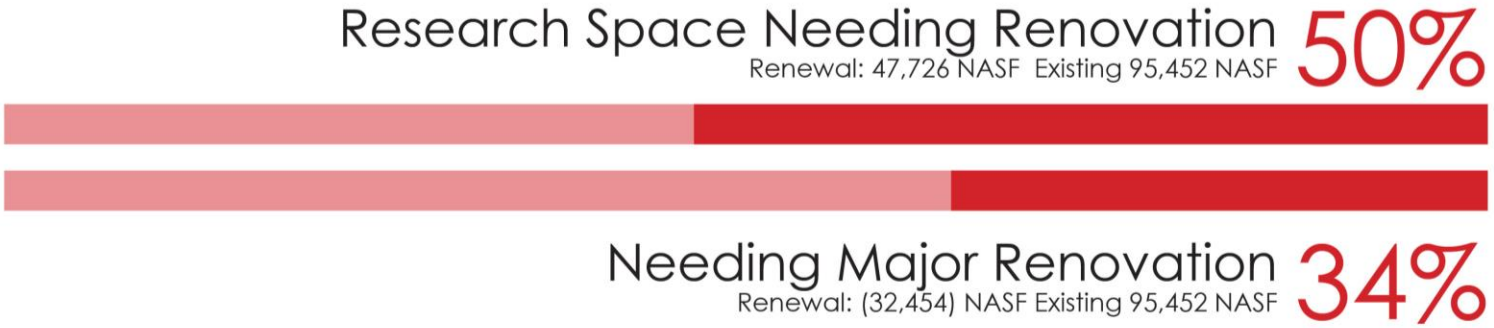
- Master Plan Steering Committee led the effort
- Engaged a consulting firm - MCA Architecture
- Focus groups meetings at each of UMCES 3 laboratory sites

Research: Collaboration, Renewal and Space Needs

Quantitative Analysis:



Qualitative Analysis:



2012-2018 Key Projects

Truitt Replacement Laboratory

2MW Solar Field and Solar Carport

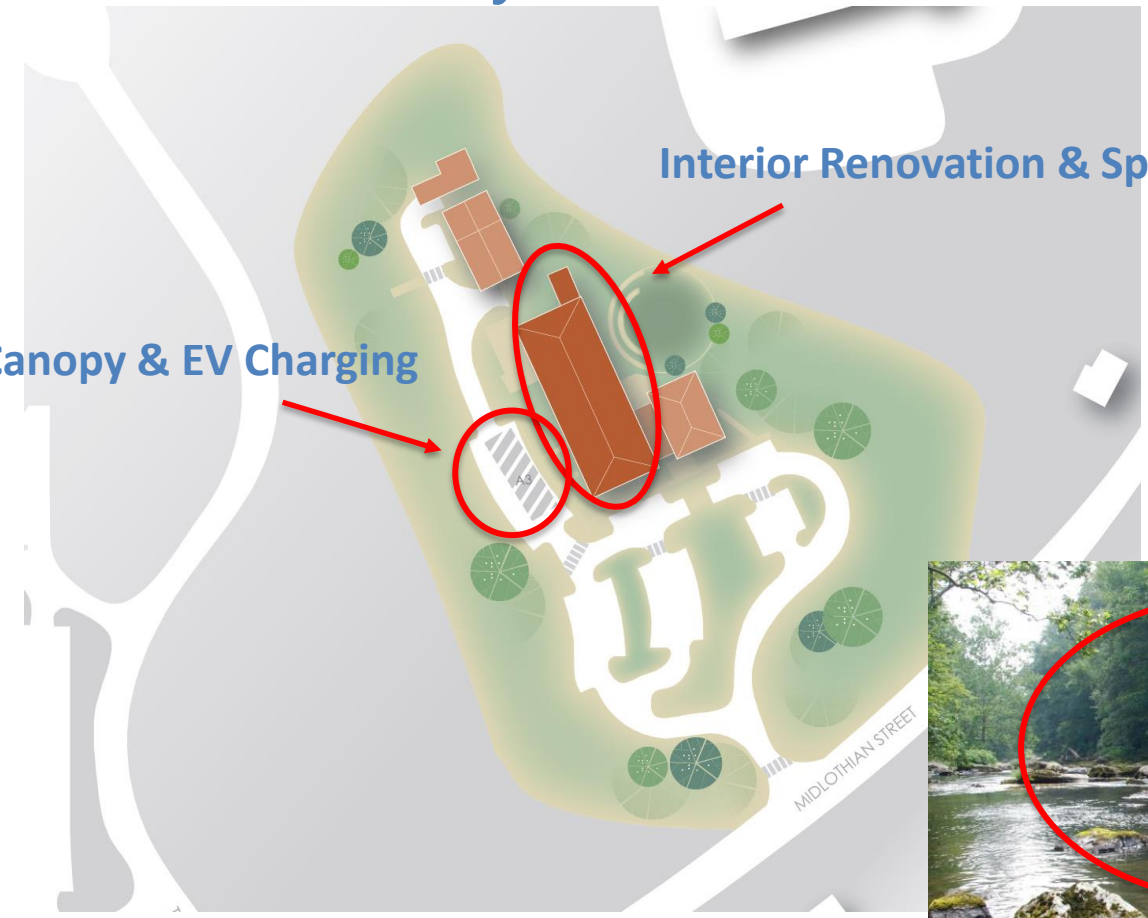
RV Rachel Carson Bulkhead Rehabilitation

Morris Marine Laboratory Phased Renovation

Planning Principles and Laboratory Plans

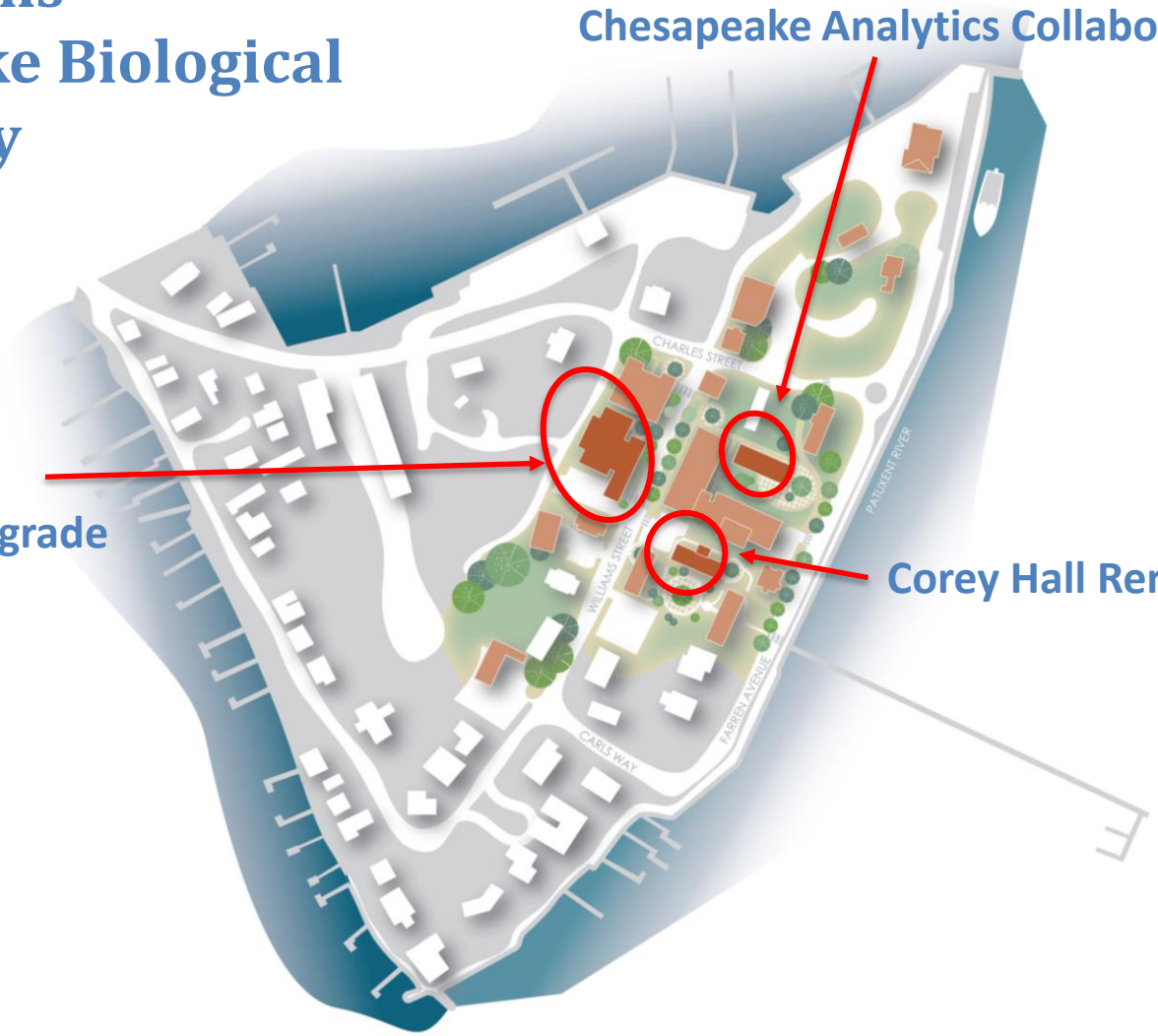
- Collaboration, Engagement and Connectivity
- Maximize Flexible Laboratory Space Management
- Research Infrastructure Renewed
- Resiliency, Adaptation & Hazard Mitigation
- Energy Efficiency & Sustainability
- Provide a *Better Maryland*

Future Plans
Appalachian Laboratory

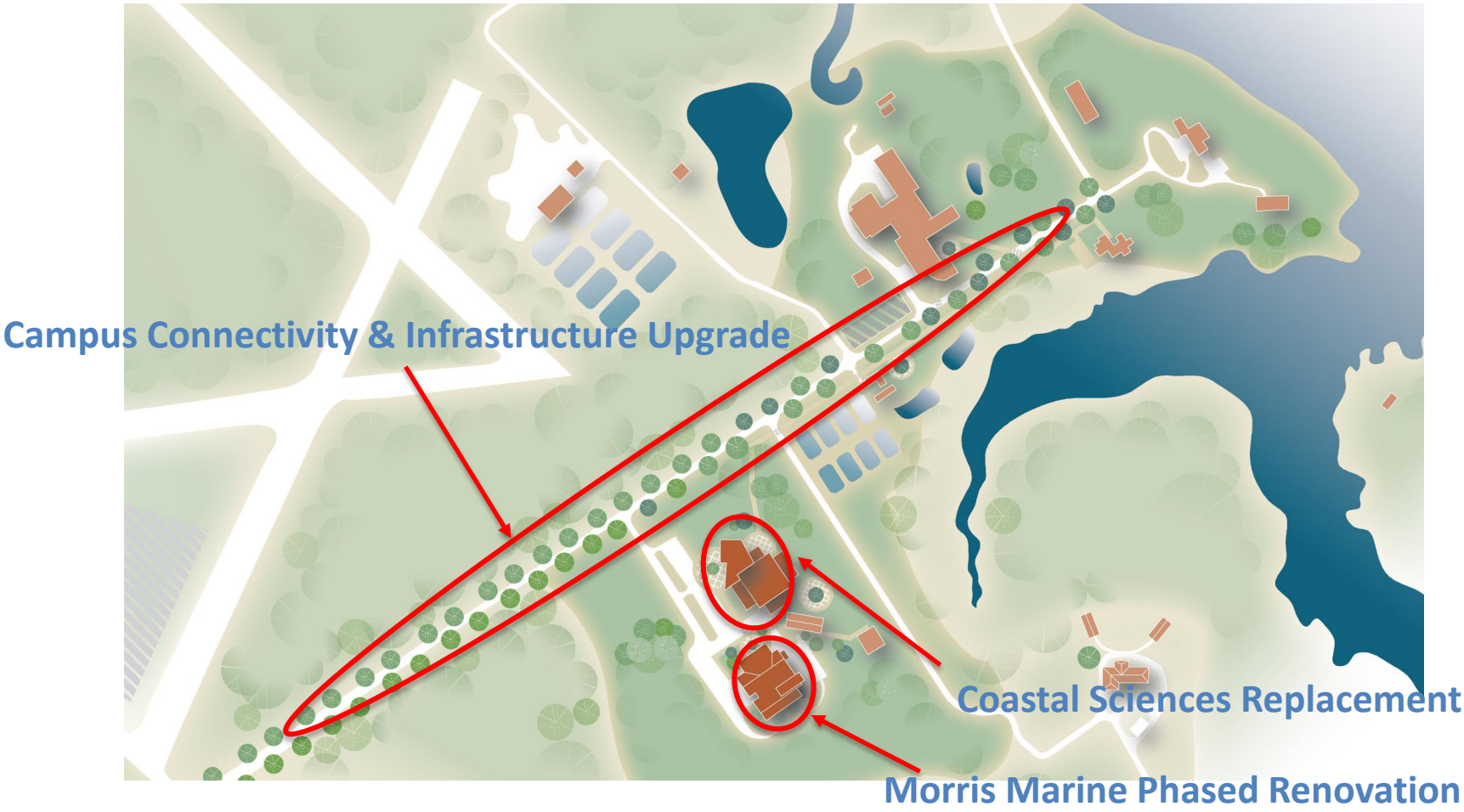


Field Research Station

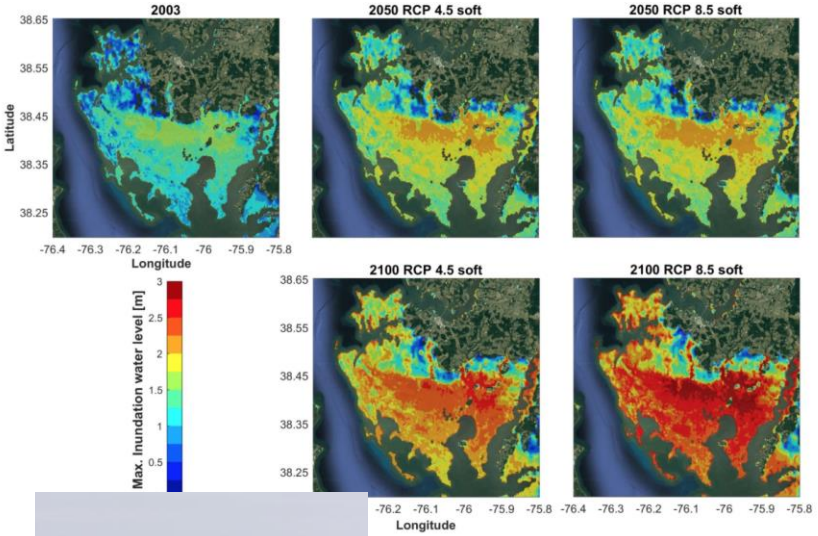
Future Plans
Chesapeake Biological Laboratory



Future Plans
Horn Point Laboratory



Investing in new research capabilities



UMCES Locations