

---

OFFICE OF THE VICE CHANCELLOR FOR RESEARCH AND ECONOMIC DEVELOPMENT

USM Board of Regents  
Committee on Economic Development & Technology Commercialization  
September 14, 2023  
Zoom

---

**AGENDA FOR OPEN SESSION**

**12:30 p.m.**

**Call to Order**

**Isiah Legget**

1. [Research and Economic Development Updates, Michele Masucci](#)
  - [Huron Engagement to Support Research Administration and Capacity Building](#)
  - [Research and Commercialization Highlights](#)
2. [Launch Fund Implementation, Michele Masucci](#)
  - Awardee, Brian Furr, Brian Furr LLC
  - Awardee, Crystal Berger, Expert Bookings Online
3. [Maryland Momentum Fund Report, Mike Ravenscroft](#)

---

OFFICE OF THE VICE CHANCELLOR FOR RESEARCH AND ECONOMIC DEVELOPMENT

**MEMORANDUM**

**TO:** Members of the Committee on Economic Development and Technology  
Commercialization

Isiah Leggett

Kevin Anderson

Anwer Hasan

Robert Hur

Robert Rauch

Yehuda Neuberger

Ellen Fish

Michele Masucci

Josiah Parker

Linda R. Gooden, *ex officio*

**FROM:** Michele Masucci, Vice Chancellor of Research and Economic  
Development

**DATE:** September 14, 2023

**RE:** Meeting of the Committee via Video Conference

---

The Committee on Economic Development and Technology Commercialization of the USM Board of Regents will meet in public session via video conference at 12:30 p.m. on Thursday, September 14. Upon the conclusion of the public session, the Committee will convene in closed session.

The agendas and supporting materials will be available on Nasdaq Boardvantage for members of the Board and the USM website at <https://www.usmd.edu/regents/agendas/>.

Zoom details will be provided to the Regents prior to the meeting.

Public listen-only access is provided at 443-353-0686; Conference ID: 733 811 779.

# Office of the Vice Chancellor for Research and Economic Development

---

Board of Regents Committee on Economic Development  
and Technology Commercialization

## Update

September 14, 2023

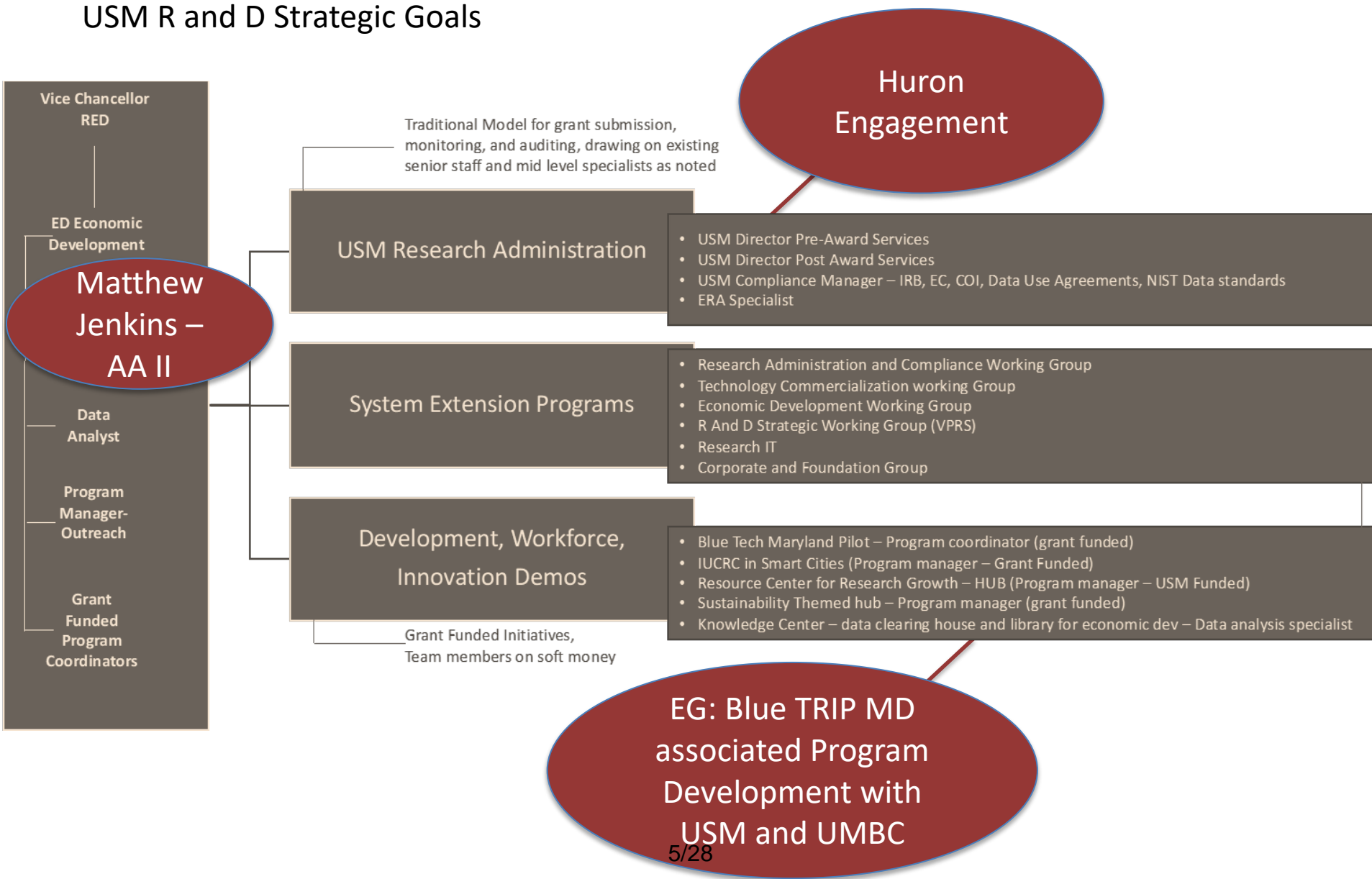


# Agenda

1. Research and Economic Development Update
    - Huron Engagement
    - USM Highlights – Focus on UMCES
  2. USM Launch Fund Implementation and Guests
    - Brian Furr, Brian Furr LLC
    - Crystal I. Berger, EBO
  3. Maryland Momentum Fund Report
  4. Q and A
-

# 1. Research and Economic Development Update

## Model for Providing Technical Support for Accomplishing USM R and D Strategic Goals



# Huron Engagement to improve USM Research Administration Capacity

**Jenna Lee**

Higher Ed Consulting Director

Mobile 312-823-8381

[jlee@hcg.com](mailto:jlee@hcg.com)

[www.huronconsuggroup.com](http://www.huronconsuggroup.com)



## Research Highlights

### Focus on University of Maryland Center for Environmental Sciences

- USM Analysis of Positioning of UMCES initiated in Spring 2023
- Analysis focused on research, graduate education, facilities, and leadership framework for the future
- Current research highlights across UMCES



## About UMCES

The University of Maryland Center for Environmental Science leads the way toward better management of Maryland's natural resources and the protection and restoration of the Chesapeake Bay.

It is organized as a set of laboratories and programs located across Maryland, with its scientists providing advice to help state and national leaders manage the environment and prepare future scientists to meet the global challenges of the 21st century.

(Source: <https://www.umces.edu/>)





# UMCES Labs and Programs

- Appalachian Laboratory in Frostburg, MD
- Horn Point Laboratory in Cambridge MD
- The Institute for Marine and Environmental Technology in Baltimore, MD
- Chesapeake Biological Laboratory in Solomons, MD
- The Integration and Application Network in Annapolis, MD
- The Maryland Sea Grant College, UMD – College Park, MD
- The MEES Program at University of Maryland, College Park, MD
- The Frostburg-UMCES Master of Environmental Management in Sustainability

# **Huron Engagement to Support Research Administration and Capacity Building**

# University System of Maryland

Board of Regents

Committee on Economic Development &  
Technology Commercialization

September 14, 2023



# Project Workstreams

USM has partnered with Huron Consulting Group to provide **assessment and strategic planning support within the research administration infrastructure at USM.**



## **Initiative 1: Special Projects to build capacity within the USM Research Administration infrastructure**

Special projects to support priority administration initiatives to make a difference in capacity building at the system level.

## **Initiative 2: Asset Mapping of Research Administrative Needs across the System**

Asset mapping across the research administration infrastructure within the system institutions and identification of gaps and strategies for improving the University system capacity to serve areas and leverage relationships across the systems.

# Timeline

We expect the partnership to yield analyses and recommendations over the **course of the next 4 months, with final recommendations delivered before the end of 2023.**



We will be working with system institutions over the course of Initiative 2 to ensure we are effectively cataloguing the research administration needs across the system.

# Research and Commercialization Highlights

- Planning for UMCES Collaboratory Development
  - Think and Do Tank to contribute to environmental science knowledge through traditional methods as well as to co-produce products designed to deliver actionable science outcomes
  - Held collaboratory planning workshop held Summer 2023  
Click [here](#) for more Information
  - Planned Collaboratory Global Summit – September 2023
- \$18M in recent large-scale grants



## Chesapeake Analytics Collaborative Building

A \$22M investment by the State of Maryland

15/28



# Key functions of the Chesapeake Global Collaboratory



Cyberinfrastructure



Science communication



Data science support



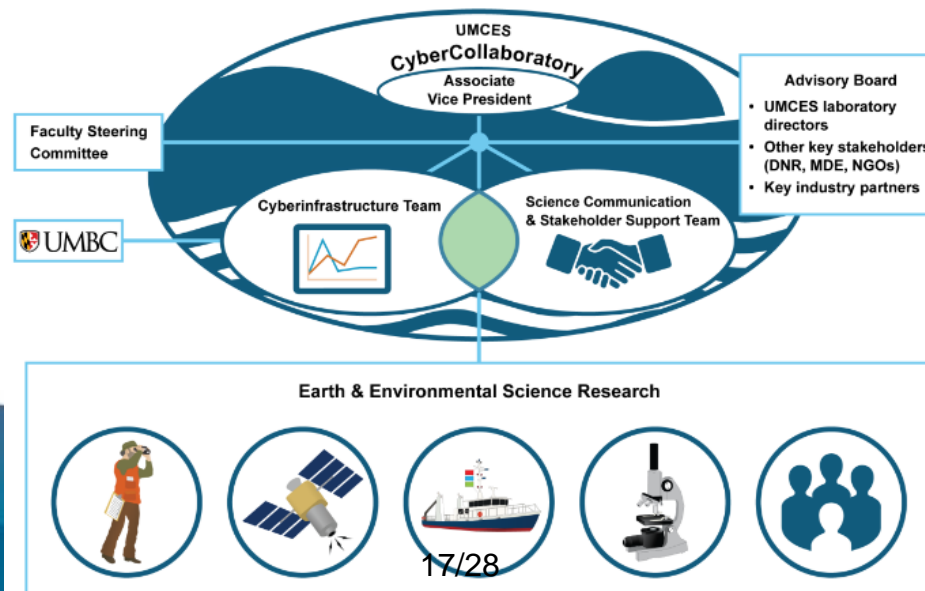
Education and training



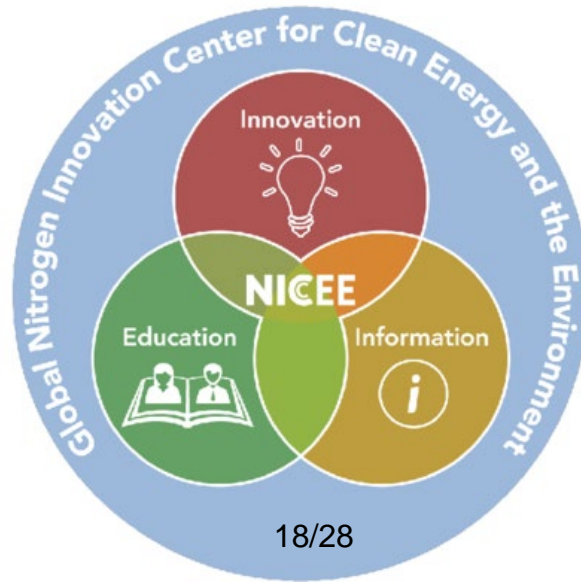
Stakeholder engagement  
and workshop facilitation



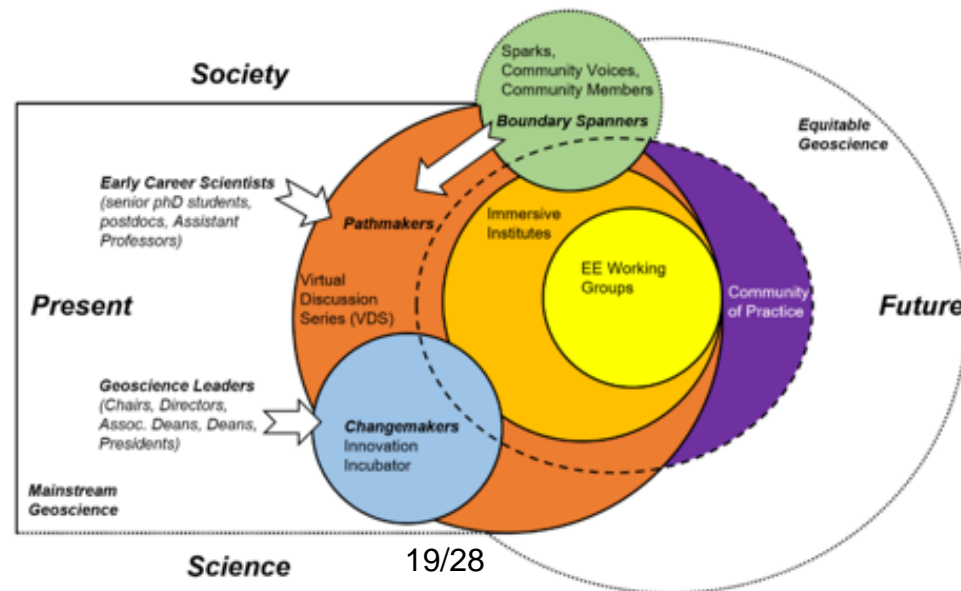
- Title: “Enhancing the transdisciplinary research ecosystem for earth and environmental science with dedicated cyber infrastructure professionals”
- Program: Strengthening the Cyberinfrastructure Professionals Ecosystem (NSF SCIFE program)
- Funding: \$3.8 M over 4 years
- PIs: **Andrew Elmore**, Vandana Janeja (UMBC), Victoria Coles, Xin Zhang



- Title: Global Nitrogen Innovation Center for Clean Energy and Environment
- Program: NSF Global Centers: Use-Inspired Research Addressing Global Challenges in Climate Change and Clean Energy
- Funding: \$4.9 M over 5 years
- PIs: **Xin Zhang**, Eric Davidson, Matt Houser, Cat Davis, Andrew Elmore, Lora Harris, Dong Liang, Integration & Application Network



- Title: "Collaborative Research: Implementation Grant: Active Societal Participation In Research and Education"
- Program: NSF Cultural Transformation in the Geoscience Community program
- Funding: \$7.5 M over 5 years
- PIs: **Lora Harris**, Cat Davis, Univ. Wash., Univ. Western Wash., AGU, indigenous communities



- Title: “Quantifying the efficacy of wastewater alkalinity enhancement on marine carbon dioxide removal and acidification mitigation in a large estuary”
- Program: NOAA Marine carbon dioxide removal: Research and development for assessing large scale carbon removal and local scale ocean acidification mitigation
- Funding: \$1.8 M over 3 years
- PIs: **Jeremy Testa**, Ming Li, Wei-Jun Cai (U Del), Yuanyuan Xu (Planetary Tech)



## Save the Date!

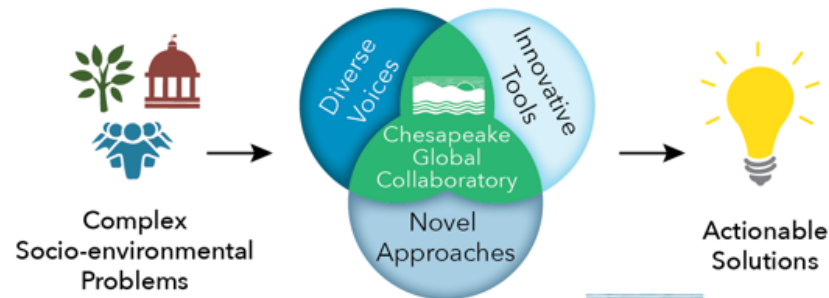
### The Chesapeake Global Collaboratory Summit

Accelerating Environmental Solutions

September 28-29th, 2023

Rita Rossi Colwell Center  
Baltimore, Maryland

Join collaborators in science, industry, government, and the nonprofit world to harness the power of big data and powerful new technologies to accelerate solutions to society's most complex environmental challenges.



Registration information to follow



# Launch Fund Implementation, Michele Masucci



## 2. Launch Fund Update

- Press release announcing recipients of funding
  - <https://www.usmd.edu/newsroom/news/2353>
- **Microgrants to 4 institutions**
  - Coppin State University, The University of Maryland Baltimore, The University of Maryland, Baltimore County and The University of Maryland Eastern Shore were recipients to support a pitch program, institutional launch program, and business plan programs
- **Grant Recipients**
  - 90 applicants for funds ranging from 2K – 50K; 17 recipients



## Launch Fund Recipients

- **Brian Furr**, leading Brian Furr LLC, UBalt Alum

Brian Furr LLC provides workforce training for community members, project-based classes, and small batch manufacturing.

Brian Furr LLC is located in Baltimore City.

- **Crystal I. Berger**, leading EBO, UMES Alum

EBO is an innovative and all-inclusive on-demand booking technology that swiftly connects vetted subject matter experts and on-air contributors with media outlets. EBO is based in Baltimore City.



# Maryland Momentum Fund Report, Mike Ravenscroft

# 3. MOMENTUM FUND

---

Mike Ravenscroft  
Managing Director  
University System of Maryland

9-14-2023



## 4. Q and A

# Contact OVCRED

**Michele Masucci, Ph.D.**

Vice Chancellor for Research and Economic  
Development  
mmasucci@usmd.edu  
215-704-2739

**Matthew Jenkins**

Administrative Assistant II  
OVCRED - USM  
mjenkins@usm.edu

**Lindsay Ryan (she/her)**

Interim Executive Director of Economic Development  
lryan@usmd.edu  
410-409-2236

**Mike Ravenscroft**

Managing Director, Momentum Fund  
mravenscroft@usmd.edu  
410.706.3361



UNIVERSITY SYSTEM  
*of* MARYLAND