



#### DCR Stewardship Council May 11, 2023

## **DCR's Research Office**

Don Kent, Ph.D., Research Director Dan Wright, Research Coordinator



# What was the impetus for the DCR Research Office?

#### **Strategic Readiness Initiative**

Create an **agency-wide research agenda** and implement a **knowledge management system** to **share and apply research findings**.

The Agenda would:

- 1. Advance climate-based resource management efforts.
- 2. Integrate **best management practices**.
- 3. Develop a **repository** of scientific information.



## Guidance

#### **Strategic Readiness Initiative**

Create an agency-wide research agenda and implement a knowledge management system to share and apply research findings.

The Agenda would:

- 1. Advance climate-based resource management efforts.
- 2. Integrate best management practices.
- 3. Develop a repository of scientific information.

#### **DCR** Mission

Protect, promote, and enhance our common wealth of **natural**, **cultural**, **and recreational** resources for the **well-being** of all.

#### **Core Principles**

- **1.** Access to recreation and landscapes
- 2. Conserve lands, water, and forests
- 3. Advance climate change mitigation/adaptation
- 4. Support healthy communities
- 5. Inspire stewards



#### **RESEARCH OFFICE INTENT**

- Dynamic, proactive, applied, and inclusive
- Value collective wisdom and diverse perspectives
- Coordinate and communicate throughout the agency
- Cultivate partnerships

#### **DCR Research is Not New!**

Since its inception in 2003, DCR has <u>applied</u> <u>science, conducted</u> <u>research, and developed</u> <u>expertise</u> to support the management of the state's natural, cultural, and recreational resources.

Some of the research is undertaken by DCR <u>staff</u> and other research is conducted by <u>third</u> <u>parties</u>.









#### WHAT IS RESEARCH?

A systematic process entailing data collection, analysis, and interpretation for the purpose of establishing facts and reaching new conclusions.



## WHY DOES DCR CONDUCT RESEARCH?

- We face **adaptive challenges**.
- We apply the **scientific method** 
  - I have a **need**.
  - What could meet that need?
  - This might work!
  - Let's try this.
  - Did it work?



### **RESEARCH OFFICE BENEFITS?**

- Share findings with colleagues.
- Expand capacity.
- Align external research with DCR needs.
- Capture lessons learned.
- Eliminate unauthorized research.
- Advance partnerships and promote stewardship.



## **DCR RESEARCH OFFICE STRATEGY**



## **OPPORTUNITIES**

## **FACILITATORS**

Natural Resource Management	Cultural Resource Management	Recreational Resource Management	Climate Change	Workforce	Partnerships
<ul> <li>Stormwater</li> <li>Watershed Health</li> <li>Cyanobacteria</li> <li>Bio-pollution</li> <li>Protected Species</li> <li>Invasive Species</li> <li>Forest</li> <li>Regeneration</li> <li>Soil Monitoring</li> <li>Wood Utilization</li> <li>Resource</li> <li>Condition</li> <li>Indicators</li> </ul>	<ul> <li>Balancing Cultural and Natural Resource Goals</li> <li>Preserving Indigenous Sites, Artifacts, and Traditions</li> <li>Facility Restoration BMPs</li> <li>Recreational Guidelines</li> </ul>	<ul> <li>Visitor</li> <li>Demographics</li> <li>Park Carrying</li> <li>Capacity</li> <li>Bikes and E-bikes</li> <li>Illegal Trails</li> <li>Nature-based</li> <li>Wellness Programs</li> <li>Visitor Behavior</li> </ul>	<ul> <li>Vulnerability</li> <li>Assessments</li> <li>Carbon Storage &amp;</li> <li>Sequestration</li> <li>Coordinated</li> <li>Mitigation and</li> <li>Adaptation</li> <li>Wildfire</li> <li>Occurrence</li> <li>Shoreline</li> <li>Migration</li> <li>Beach</li> <li>Replenishment</li> </ul>	<ul> <li>Information</li> <li>Access</li> <li>Collaboration</li> <li>Clear Decision-making</li> <li>Systems and</li> <li>Design Thinking</li> <li>Succes Metrics</li> </ul>	Enhanced Relationships: - Other State Agencies - External Researchers - Local Communities - Indigenous Communities

## **DCR RESEARCH OFFICE STRATEGY**



#### **RESEARCH MANAGEMENT SYSTEM OBJECTIVES**



## **LIVE DEMO**

# **THANK YOU**

Priscilla Geigis, Deputy Commissioner <a href="mailto:priscilla.geigis@mass.gov">priscilla.geigis@mass.gov</a>

Don Kent, Research Director don.kent@mass.gov

Daniel Wright, Research Coordinator <a href="mailto:dan.wright@mass.gov">dan.wright@mass.gov</a>