



# Marine Minerals Information System (MMIS)

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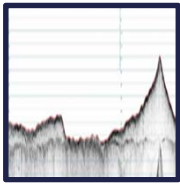


# Marine Minerals Information System

- MMIS is an application to support a **National OCS Sand / Sediment Inventory** and foster access to the Nation's offshore mineral resources
- Serves **current** and **historical** marine minerals information (Atlantic, Gulf of Mexico, Pacific)
- Geodatabase and Query tools (**SediSearch**) lets you select parameters that you want to further analyze
- *Web services to publicly share marine minerals information (in progress)*

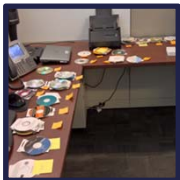
# What questions will the MMIS support?

- **Where** are the OCS sand / sediment resources to **inform** management and environmental decisions within **ocean planning** and **lease use**?
- What is the **extent of compatible** sand / sediment **resources** in the OCS to support restoration?
- Where is the **authoritative source data** for sand resources?
- What vital marine mineral **products** and data on **national, regional,** and **local scales** do managers, planners, and scientists need?
- How do we **improve sharing** marine mineral datasets with our partners?



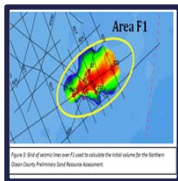
ASAP / GSAP – Analyzed Geotechnical / Geophysical Source Data

Digital data from physical core samples



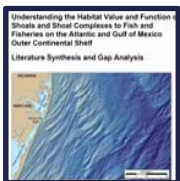
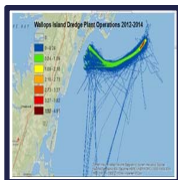
Digital derived data from external drives, CD's, paper sources

Cooperative Agreements



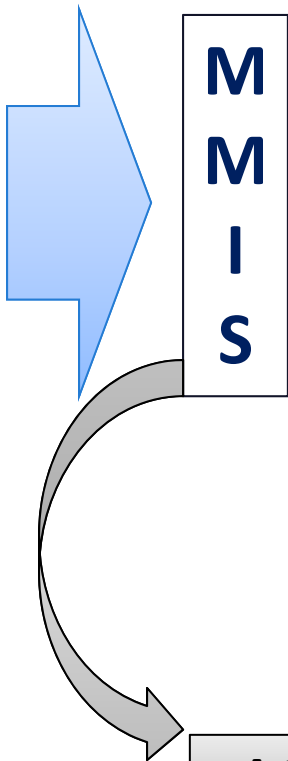
Leasing data

Dredge data

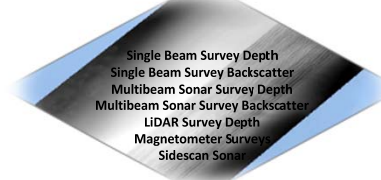


Environmental Studies Data

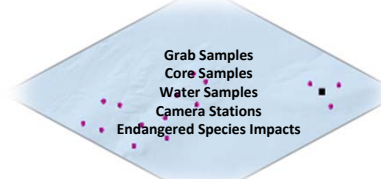
# MMIS Data Model



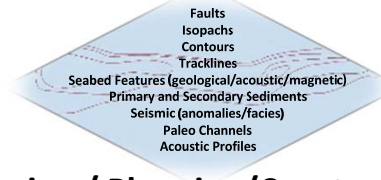
## Bathymetry & Backscatter



## Environmental Data



## Bottom Characteristics



## Leasing / Planning/Construction



Discover

Analysis

Id Gaps

Metrics

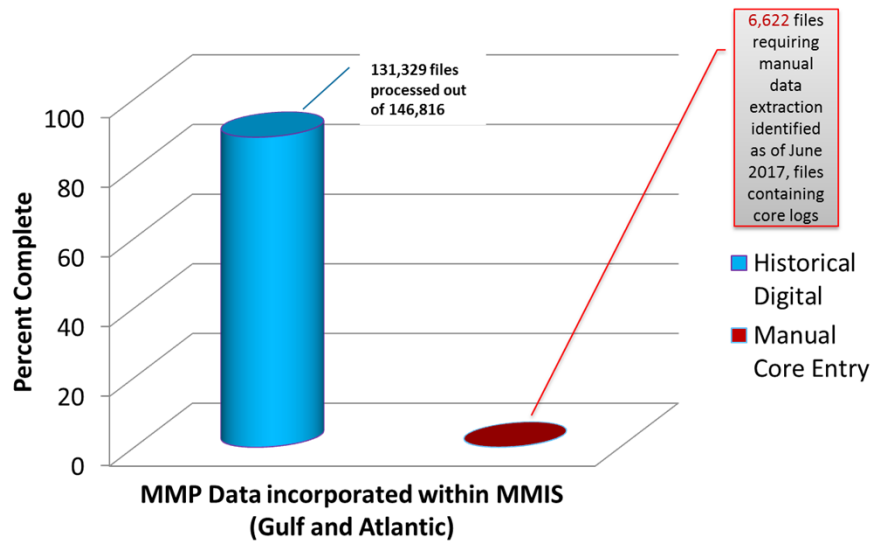
A tool to support the National OCS Sand Inventory

# Data Development

1996-2017

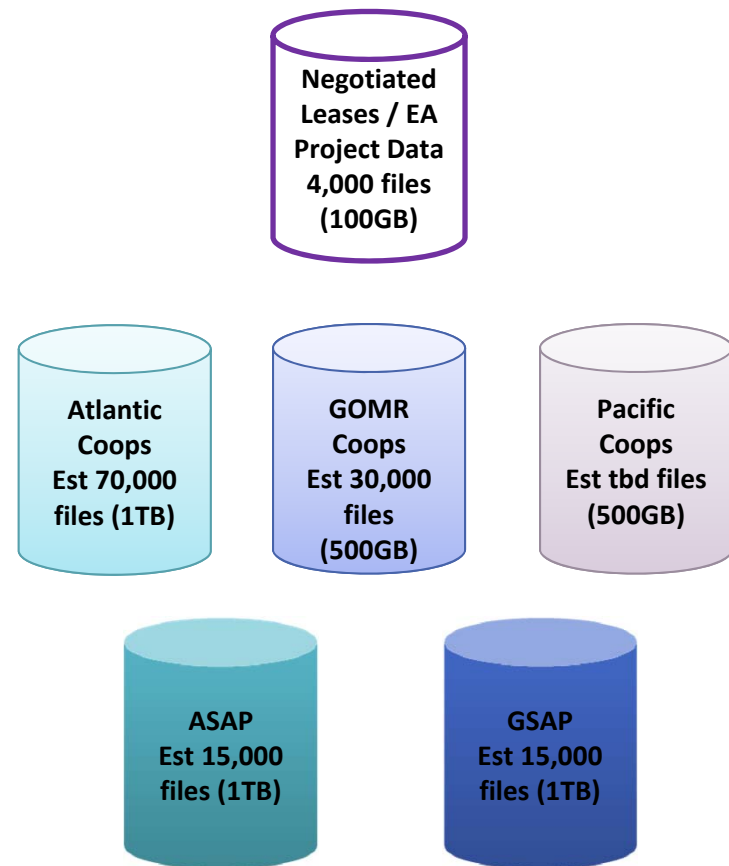
**131,239 files processed out of 146,816 files**

- 30+ years of BOEM funded data
- Multiple formats
- Multiple locations

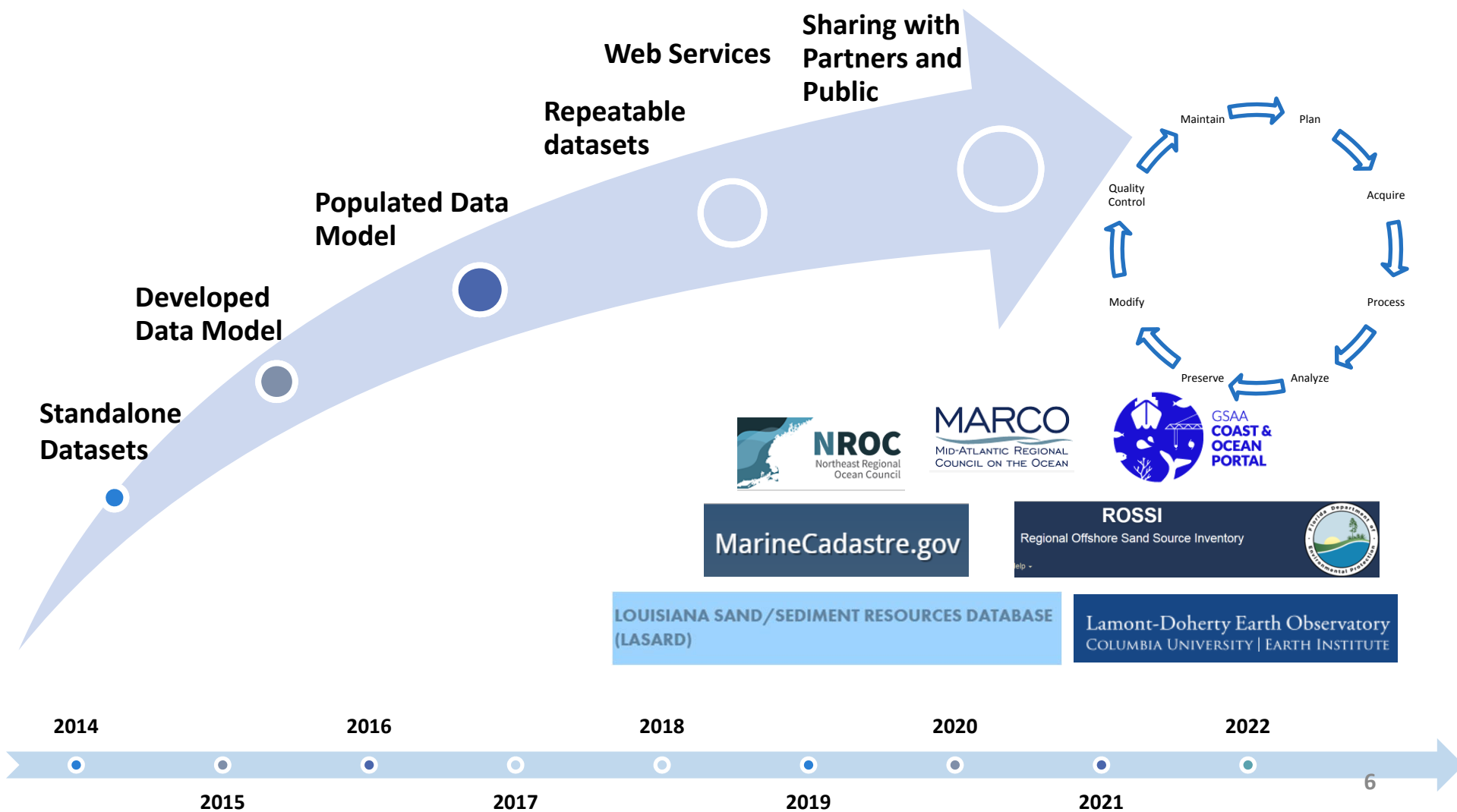


2018-2022

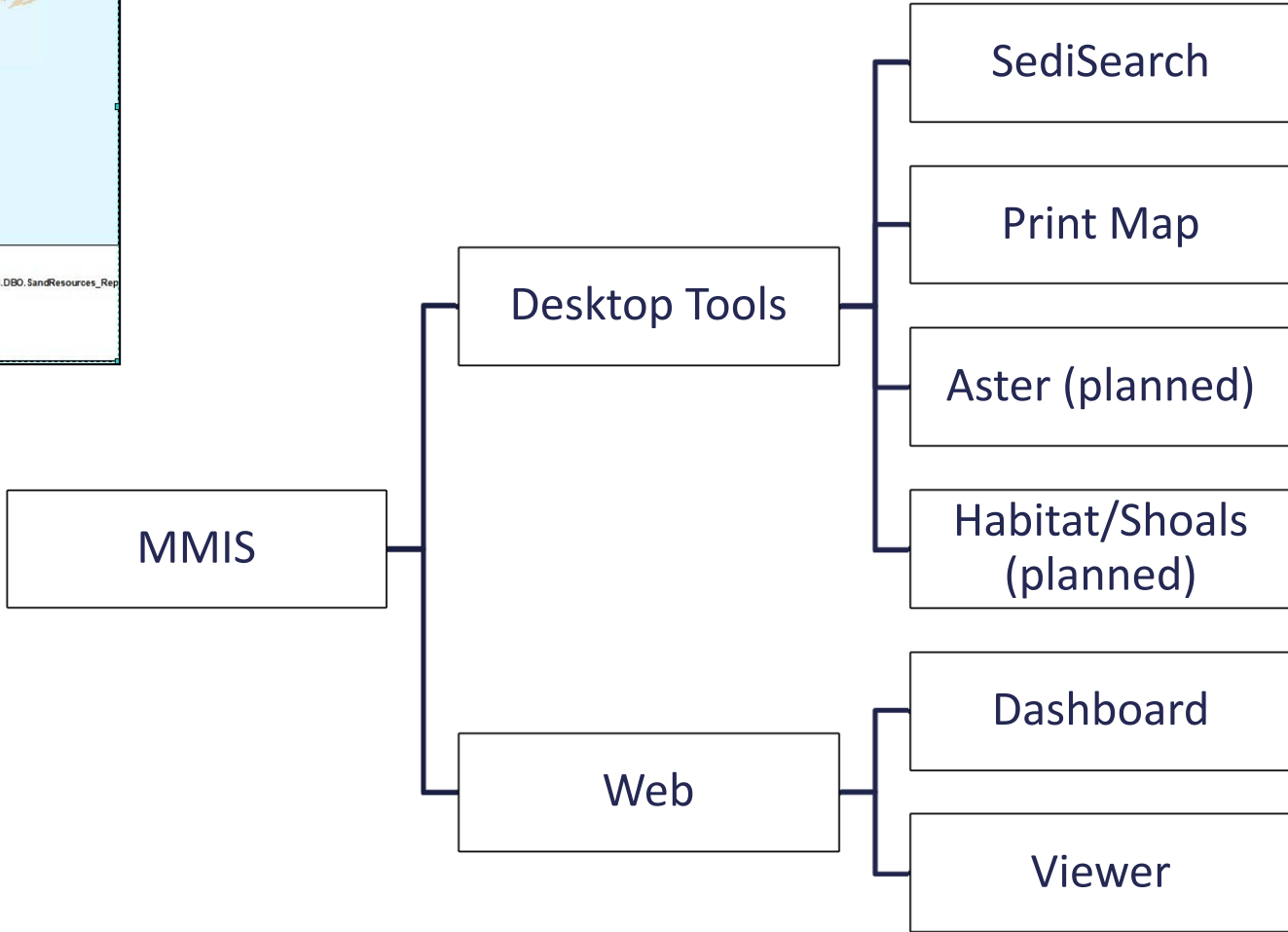
**275,000 files+ projected**



# Data Accessibility Authoritative Data Source

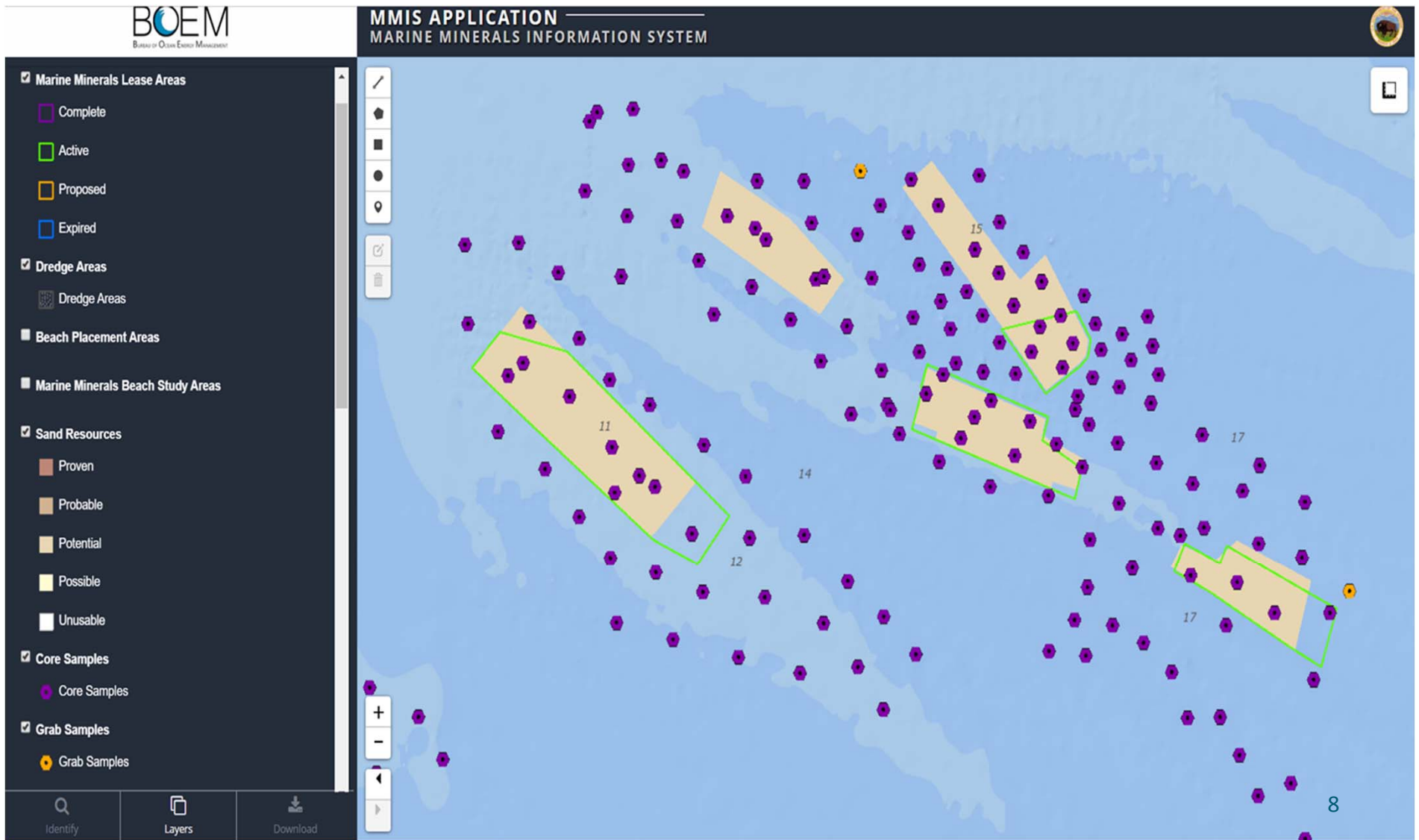


# MMIS Products



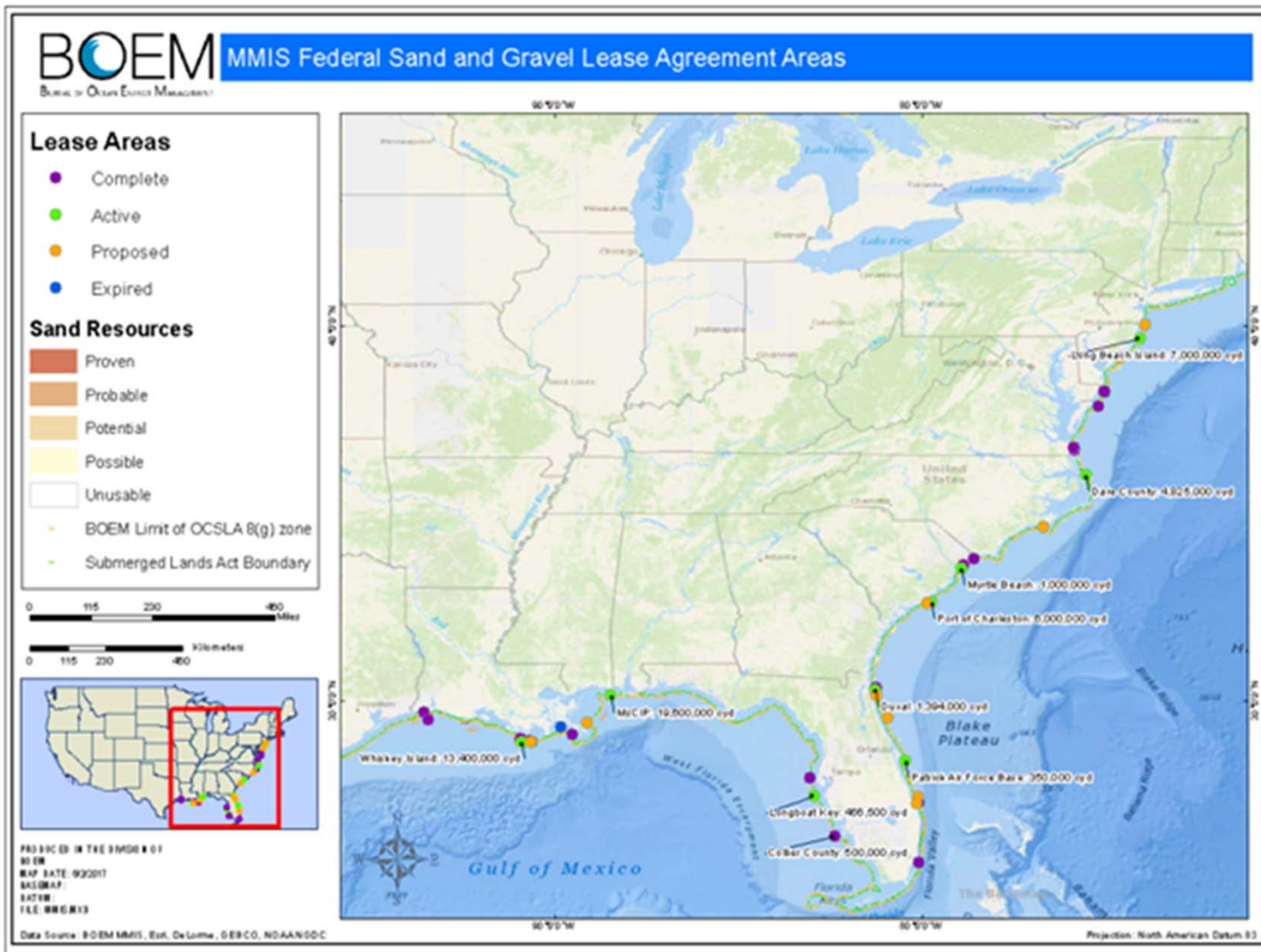
MMIS – Viewer Demo

# MMIS Viewer

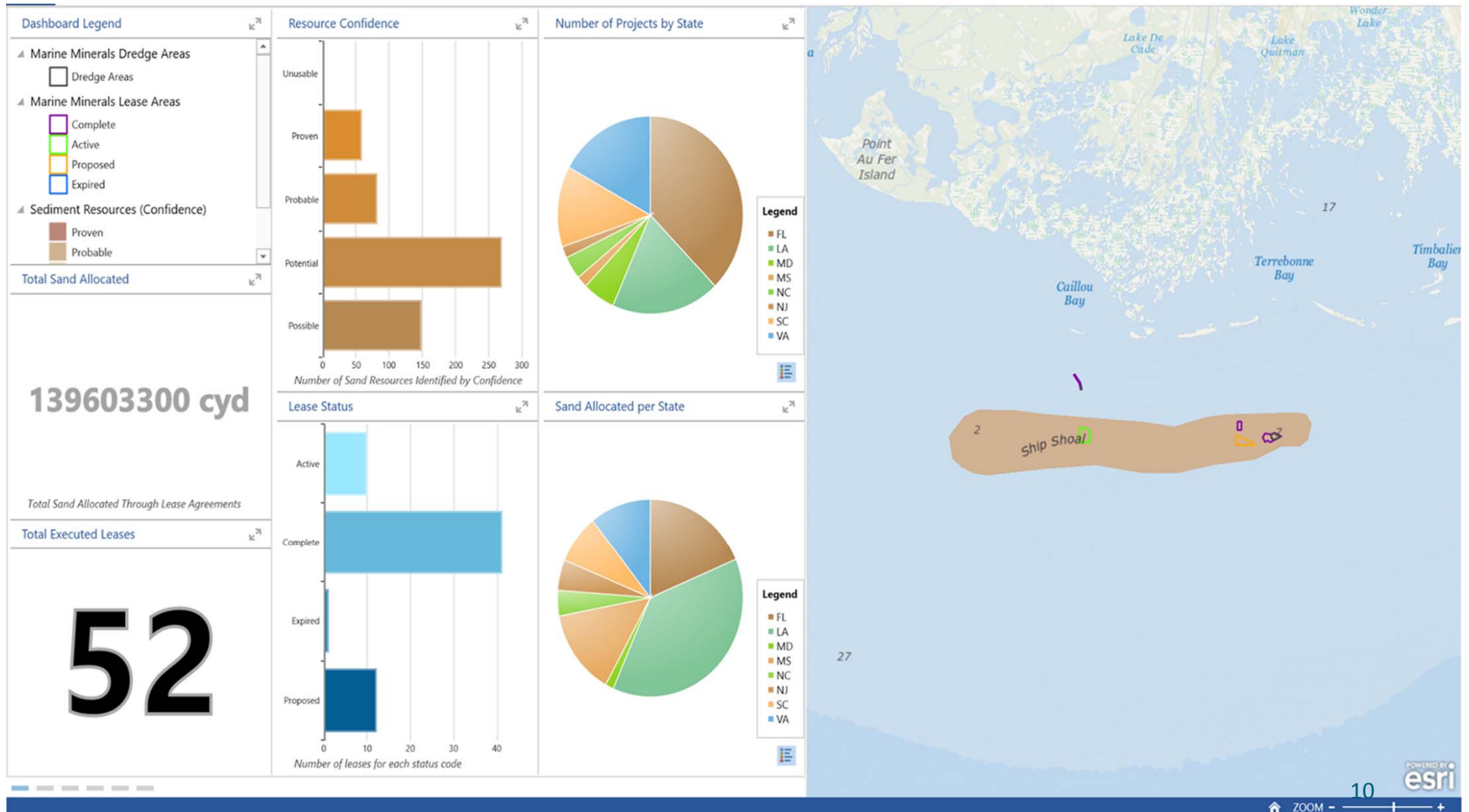




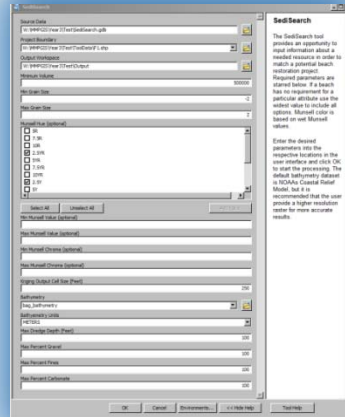
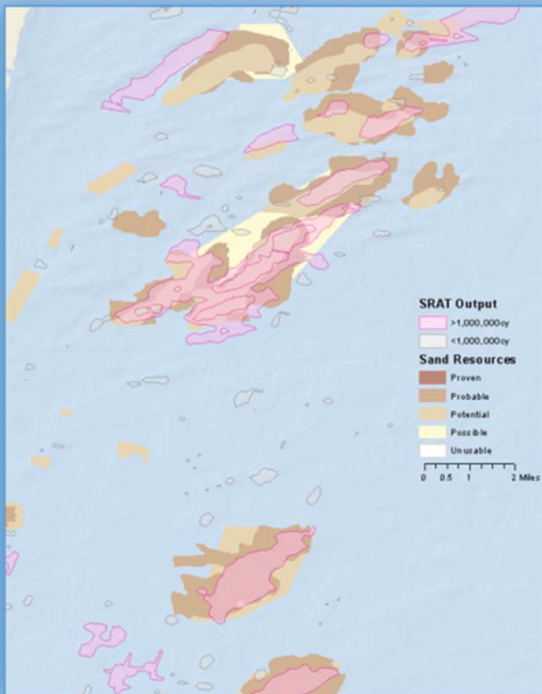
# MMIS – Project Dashboard



# Resource Dashboard Prototype



- ⊕ SediSearch.gdb
- ⊖ MMIS\_103.tbx
- SediSearch
- SediSearch\_Sand\_Resources\_Rank\_Category.lyr



# SediSearch



## Next Steps

- QSI supporting transition of system to DOI host
- Developing MMP data planned through 2018
- Maintaining the system with DOI
- Training (MMP Staff and ¼ FTE DBA within DOI)
- Continued analysis work and products development
- Continued coordination with our partners (Cooperative Agreement States, Regional Planning Bodies, USACE, NOAA, USGS...)