ArcGIS for Maritime: Creating, managing and sharing maritime data

Rafael Ponce & Lee Brinton
What is ArcGIS for Maritime?

**Charting**
Create, maintain and publish charts for navigational and marine purposes.

**Bathymetry**
Store, discover, model and manage bathymetric data.
How several DBs coexist in the same platform

1. New bathymetry and metadata
2. Geodetic, AtoNs, Hazards, Port’s data
3. SVP, CTD, Tides, Currents, Sediments, backscatter, etc.

A Maritime Data Management System
Helping people to solve Problems

• Where can we install and O&G Floating Storage Vessel facility in the Monterey Bay area?
  - Storage Vessel with on loading and off loading capabilities
  - Pipe line
  - Anchorage area

Image from Wikimedia Commons: FPSO Mystras offshore Nigeria
The ArcGIS Platform

ArcGIS Online

ArcGIS Desktop

NIS
Hydrographic Department

BIS
Oceanographic Department

OIS

SSDM
Petroleum Organization

Nautical data
Bathymetry
Sediment Class
Contours
This scenario

- An O&G organization’s analyst gets the request
- As a member of the Marine SDI he has access to other data bases from members
  - Consumes from a Nautical Information System
  - Consumes from a Bathymetric Information System
  - Consumes from an Oceanographic Information System
- Complements with his SSDM
The analysis process

1. Access Nautical data
2. Access Bathymetry surface
3. Access Sediment Class
4. Use own SSDM
5. Visual analysis
6. Use GP model for anchorage
7. Provide Results

ArcGIS for Maritime: Creating, managing and sharing maritime data
Using Maritime data for decision making

Lee Brinton
Thank you...

Please fill out the session evaluation

**Offering ID:** 1442

**Online** – www.esri.com/ucsessionsurveys

**Paper** – pick up and put in drop box