What is asset management?

**Asset**
An item, thing, or entity that has potential or actual value to an organization.

**Asset management**
Coordinated activities of an organization to realize value from assets over their life cycle in delivery of its objectives.

**Asset management system**
Set of interrelated elements of an organization to establish policies and objectives, and capabilities to achieve those objectives.

Asset management capabilities include people, resources, processes, information, and technology.

Waterway asset examples
- Channel markers
- Moorings
- Regulatory signs
- Buoys
- Boat ramps
- Utilities
- Infrastructure
- At-risk vessels
- Regulatory signs
- Utilities
- At-risk vessels

What is WAMS?

**Geographic information system (GIS)-based data collection system**
Used to increase the speed and ease of data collection and house waterway asset datasets.

Atkins worked with the Florida Fish & Wildlife to develop WAMS to assist with asset management.

What is WAMS?

**Geographic information system (GIS)-based data collection system**

**Public safety and emergency management**

**Public safety and emergency management**

**On-call response program**
Provides rapid assessment and repair of damaged or missing waterway markers.

**Emergency response program**
Provides for post-disaster response pertaining to FWC waterway assets.

Data collected in the field is analyzed back in the office.

- Active marker photo
  Enables user to see the linked photograph of the geographic feature in the editing panel.

- Active record flagging
  Visualize the active record on the map when multiple features are selected.

- Reporting engine
  Select features on the map via predefined or user-defined complex queries.

Emergency response

Mobile-GIS technology is used to collect asset data.

Data entry forms contain radio buttons and pull-down values to simplify data entry and capture information, such as:
- Sub-meter accurate location data
- Current asset condition
- Active marker photos
- Recommended repair information

Data collection

The field data collection application was created to provide consistent and uniform data.

Vendors are selected through the State purchasing process to provide marine construction services as described in the work plan.

Work plan and corresponding map

Replacement of missing regulatory marker

Asset details are housed in a digital record.

Analyzed data can be utilized to schedule regular, routine maintenance and repairs, and monitor permit compliance.

Waterway asset management system (WAMS) for the Florida Fish and Wildlife Conservation Commission

S. Marie Yarbrough, P.E.

Data is seamlessly transferred into ESRI’s ArcGIS platform.

Interface provides platform for analysis used to:
- Repair existing assets
- Propose new assets
- Emergency responsiveness
- Confirm location appropriateness
- Generate annual work summary and material reports

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