Media Pack

ESRI International 2010 User Conference

Honolulu Board of Water Supply
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WATER FOR LIFE
Ka Wai Ola

Board of Water Supply
City and County of Honolulu

Established in 1929, HBWS is a Semi-Autonomous Agency Of City and County of Honolulu

- GIS Program Established 1989
- Largest municipal water utility in the State
- Primary Function is to Provide Municipal Water and Fire Protection for Oahu
- Serves One Million Customers On Oahu, & Provides Support Services To Maui & Kauai
- Staff of more than 600 employees

Introduction

- HBWS Media Pack is a GIS-based enterprise system for collecting, managing, and distributing digital media.
    - » Digital Photos
    - » Video
    - » Audio
    - » Screen captures
    - » Sketching

- Web, mobile, desktop access.

- Built on ESRI technology.
    - » ArcSDE
    - » ArcGIS Server
    - » ArcObjects
    - » REST clients (Flex,SilverLight)
    - » ArcEngine clients for mobile

Introduction: Why was MediaPack built?

- Thousands of digital photos and video files being collected by individuals.

- These contain valuable current and historical information, but they are not shared, and not easily accessible by other HBWS employees.

- More informed Planning and Decision Support

Introduction: System Goals

- **Standardized** system for adding photos, video, etc to GIS

- **Integration** with existing enterprise GIS viewers
  - HONU (Web – SilverLight)
  - MANO (Mobile – ArcEngine)
  - GISMO (Work Management Mapping)
  - Arc Desktop

- **Enterprise** sharing

- **ESRI** ArcGIS Server / GeoDatabase Integration

- **Low-tech** - no specialized equipment

- **Low-cost** - utilize existing consumer-grade cameras

- **Minimal** user training

- **Easy** to use

System Overview

System Overview: Process Summary

1. Capture

Upload
Photos and Video

2. Create

MediaPack Server

ArcGIS Server

GeoDatabase

3. Share
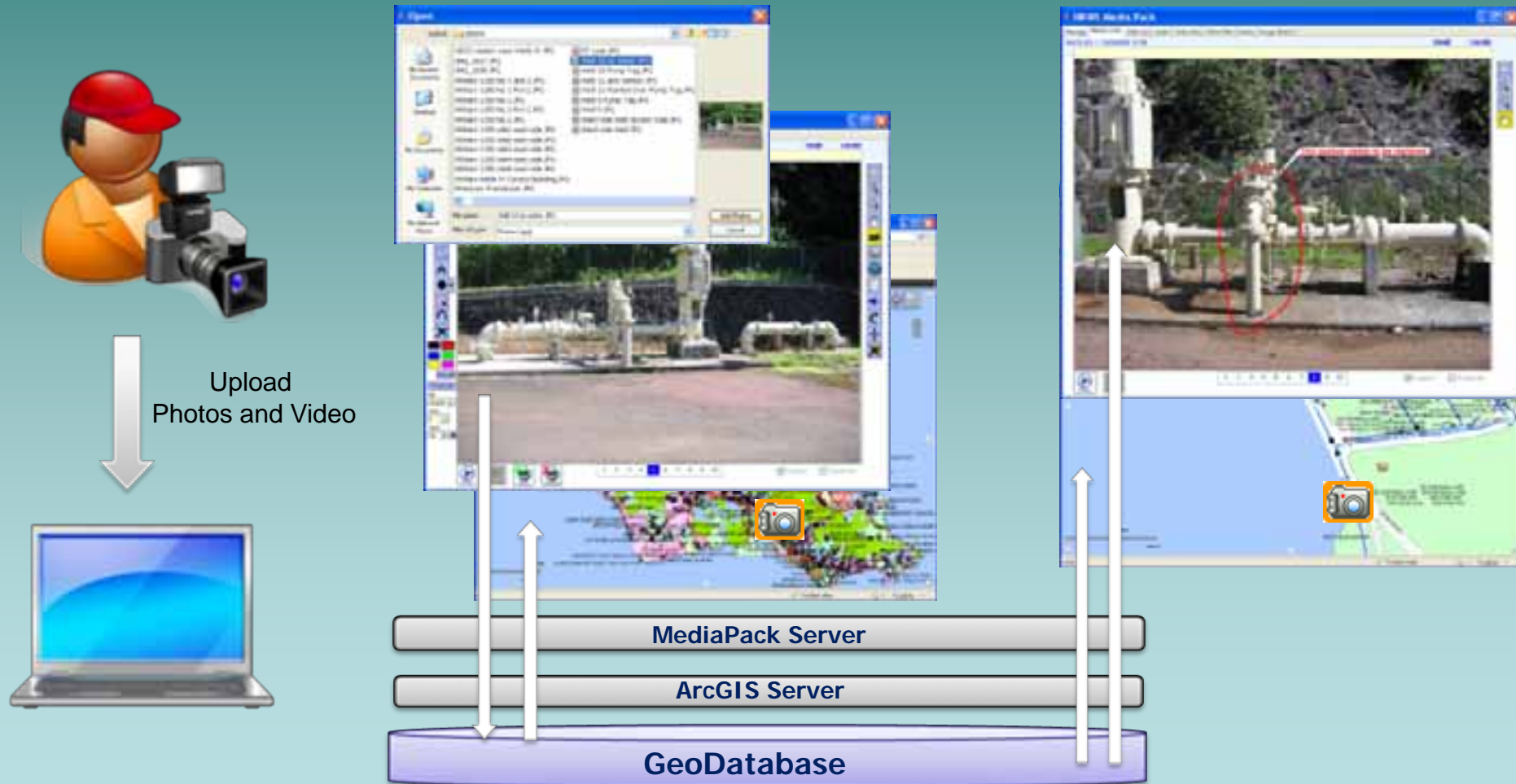
System Overview: Data Capture

1. Capture photos and video

2. Select location for new MediaPack
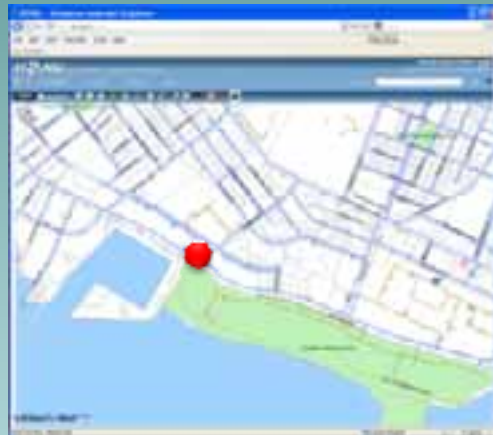
3. Add data to MediaPack and Save

System Overview: Data Storage

Saved MediaPack

MediaPack Server

ArcGIS Server

HBWS GeoDatabase
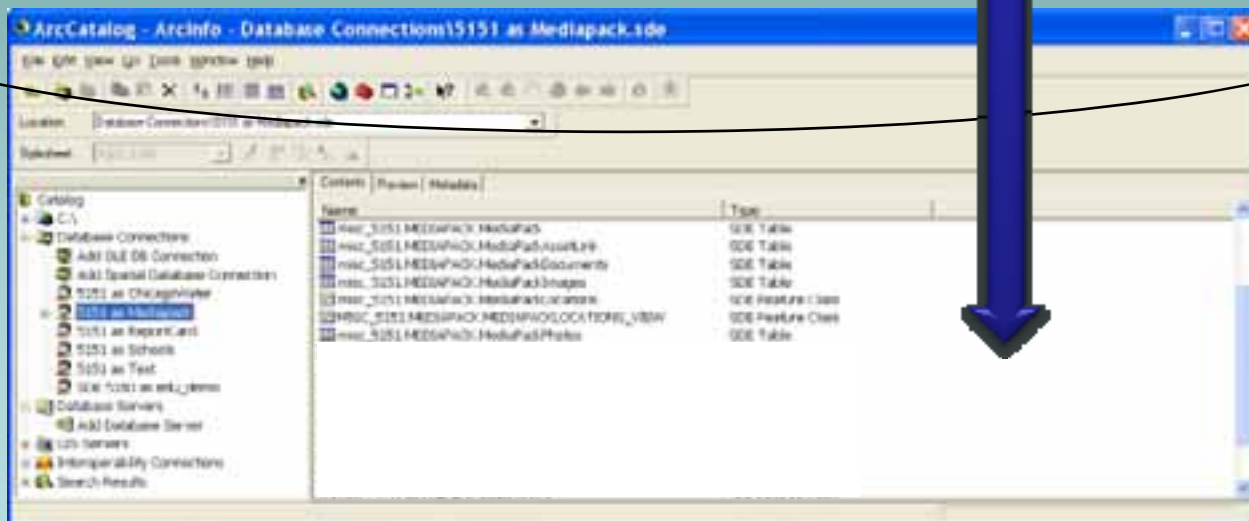
MediaPack Software Basics

Basics: Digital Photos

Basics: Video

Basics: Notes

MediaPack Advanced Options

Advanced Options: Sketching

Users can sketch on the photos in order to highlight points of interest.

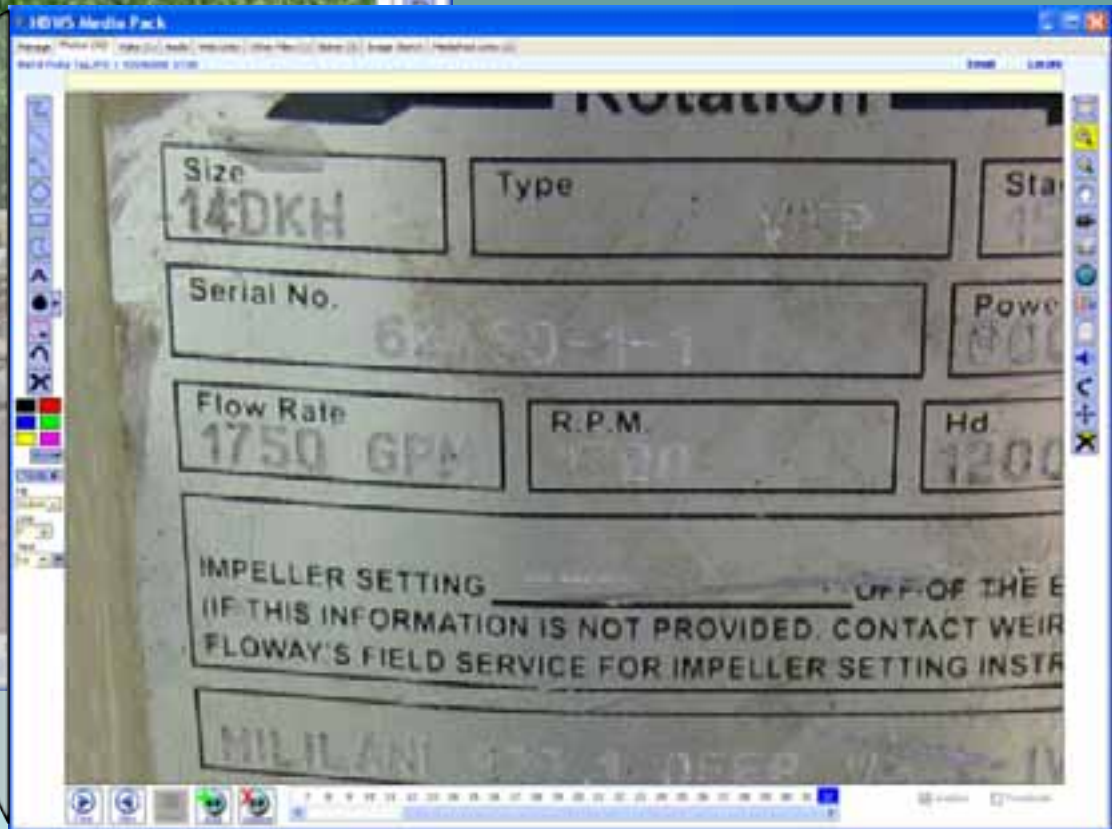Graphics can be toggled on/off

Graphics are saved with the MediaPack

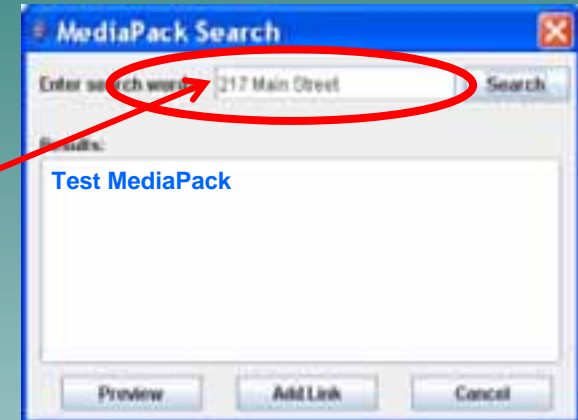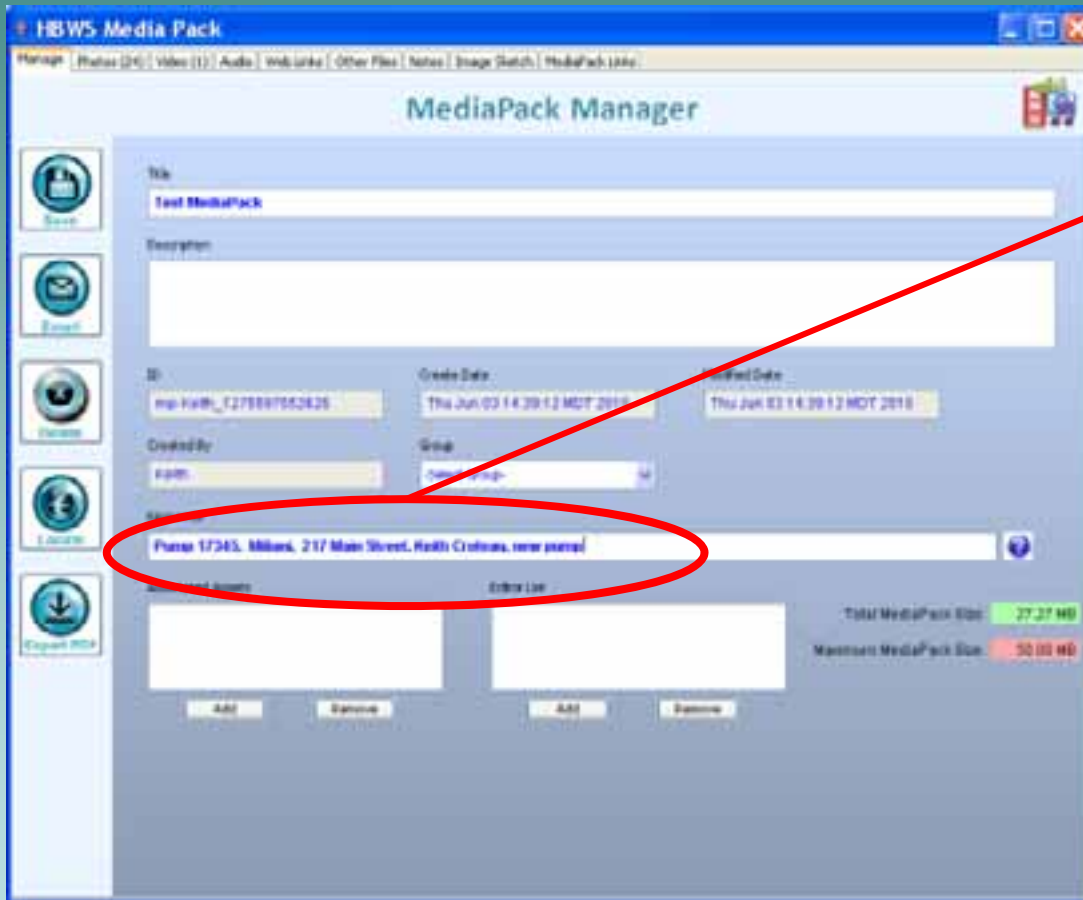# Advanced Options: Photo zoom, pan, etc

Zooming -in to see greater detail.

Advanced Options: Media Links

Link to other photos – such as close-up views.

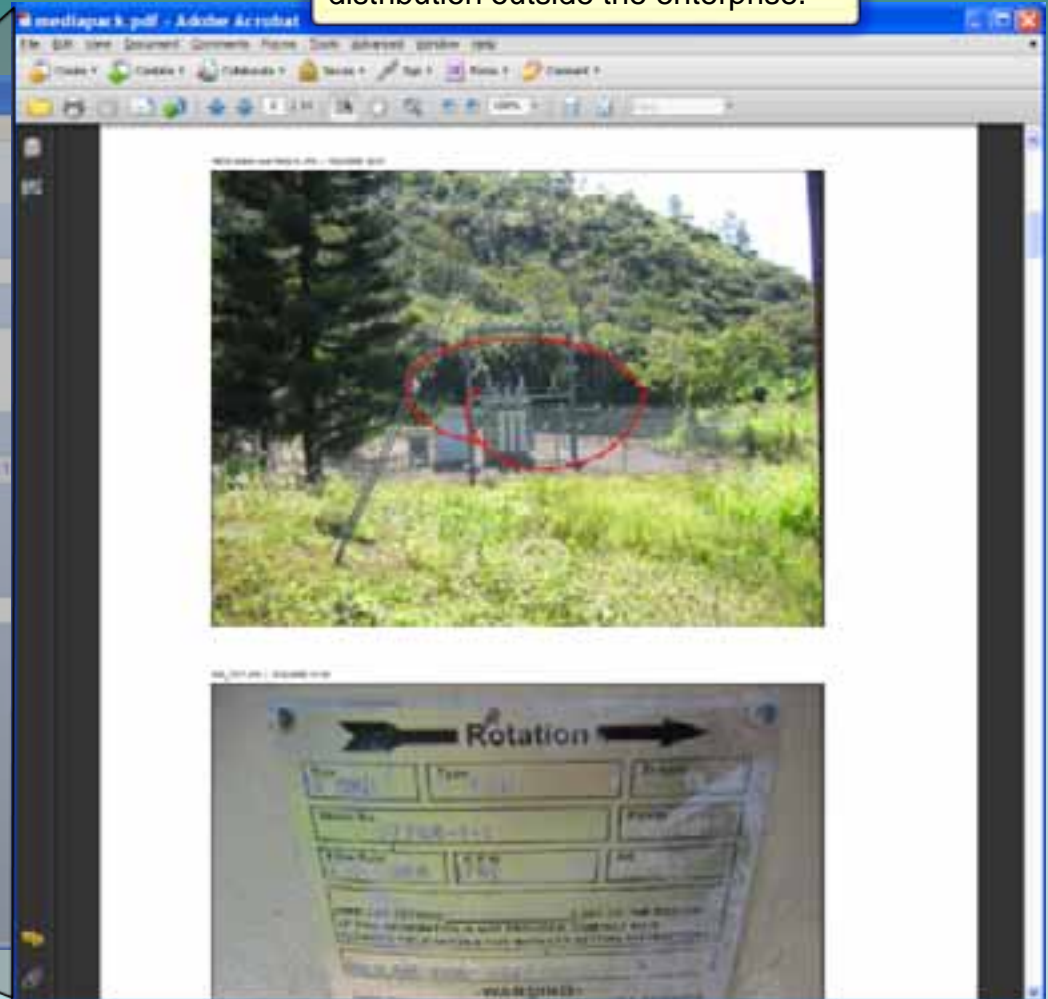Link to videos

Advanced Options: Keywords and Search Support

Integrated search for easy enterprise access to MediaPacks.

Advanced Options: Save to PDF

Save to PDF for printing and easy distribution outside the enterprise.

Workflow Demonstration

Conclusion

- ## Current Status

  Version 1.0 complete

  300+ MediaPacks created by just a few users

  Limited Rollout

  Full rollout in August/September

- ## Future plans

  - Mobile, Desktop, Work Management (Maximo),SharePoint integration.
  - Share MediaPacks with other City of Honolulu departments.

Questions?

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