Creating and Using Web-based (ESRI) Story Maps in a Cloud Environment

ABoVE Science Cloud Webinar

September 27th, 2018

Overview

- What is a Story Map?

- JJ Frost – Emmonak Story Map

- Carly Robbins – NCCS-created Story Map

- Jim Shute – Time-enabled Dataset Automation

ARCTIC BOREAL
VULNERABILITY
EXPERIMENT

What is a Story Map?

- Combine your map with narrative text, images, and multimedia content.

Hurricane Florence Damage Viewer

Sea Level Rise in Miami-Dade County

National Storm Surge Hazard Maps

ARCTIC BOREAL VULNERABILITY EXPERIMENT

Story Maps can be created on the science cloud.
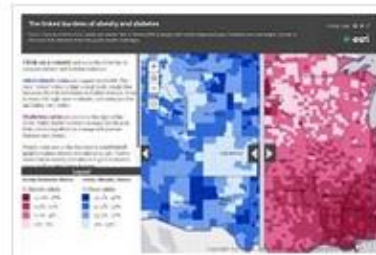
Where do I start?

- Request an NCCS account on ADAPT/ASC: https://above.nasa.gov/sciencecloud_setup.html

  – When requesting the account, indicate that you need access to the Windows environment, Portal for ArcGIS

- If you already have an NCCS account on ADAPT/ASC :

  – Submit a Support ticket support@nccs.nasa.gov requesting access to the Windows environment and a Portal for ArcGIS account

  – If access to the Development environment is required as well, make sure to mention that in the ticket

- The GIS Team can provide assistance via WebEx, if necessary

ARCTIC BOREAL VULNERABILITY EXPERIMENT

NASA

Dr. JJ Frost

Emmonak, Alaska Story Map

Link to map:

https://uaa-geomatics.maps.arcgis.com/apps/StorytellingSwipe/index.html?appid=1b69883b8b364adca038a2a9b06b6c7d

Carly Robbins, NCCS Summer Intern

Barn Swallow Climate Story

Link to Map:
https://maps.nccs.nasa.gov/arcgis/apps/MapSeries/index.html?appid=51ab69b3560346d4adcb1a080c7a0a6c

ARCTIC BOREAL
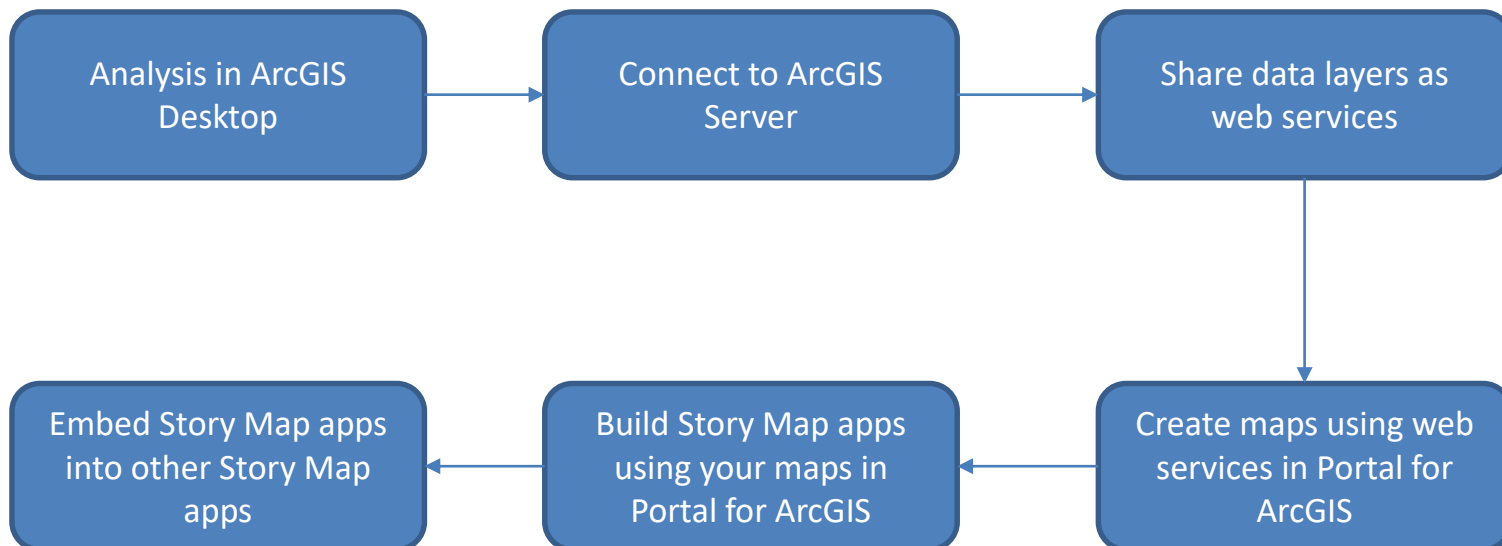VULNERABILITY
EXPERIMENT

Barn Swallow Climate Story

Carly Robbins

crobbins@clarku.edu

Summer 2018 NCCS Intern

Mentor: Jim Shute

Clark University

Cornell Lab of Ornithology

Basic Overview of Creating an Esri Story Map

```
┌─────────────────────┐      ┌─────────────────────┐      ┌─────────────────────┐
│ Analysis in ArcGIS  │ ───► │ Connect to ArcGIS   │ ───► │ Share data layers as│
│ Desktop             │      │ Server              │      │ web services        │
└─────────────────────┘      └─────────────────────┘      └─────────────────────┘
                                                                     │
                                                                     ▼
┌─────────────────────┐      ┌─────────────────────┐      ┌─────────────────────┐
│ Embed Story Map apps│      │ Build Story Map apps│      │ Create maps using   │
│ into other Story Map│ ◄─── │ using your maps in  │ ◄─── │ web services in     │
│ apps                │      │ Portal for ArcGIS   │      │ Portal for ArcGIS   │
└─────────────────────┘      └─────────────────────┘      └─────────────────────┘
```
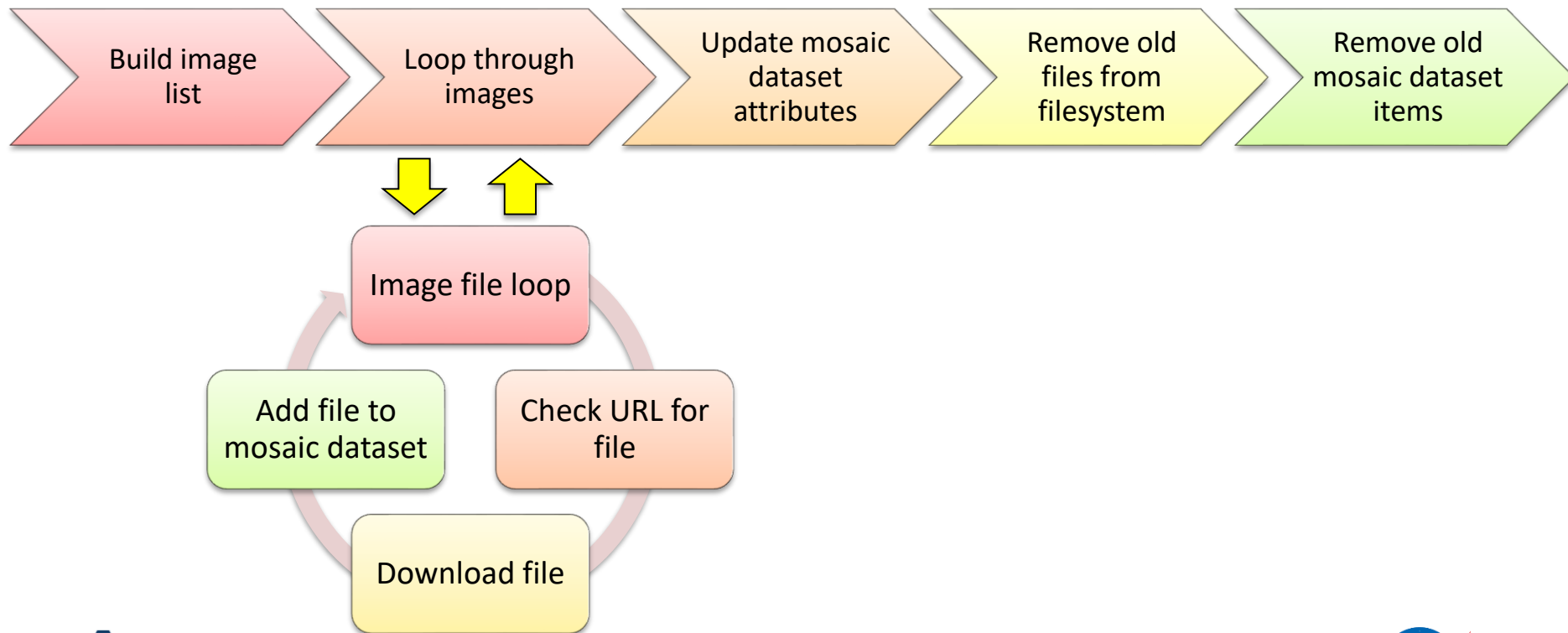
Jim Shute, NCCS App. Architect

Time-enabled Dataset Automation Process

Time-enabled Dataset Automation Process

- Python, ArcGIS Libraries and Windows Task Scheduler

| Build image list | Loop through images | Update mosaic dataset attributes | Remove old files from filesystem | Remove old mosaic dataset items |

Image file loop

Check URL for file

Download file

Add file to mosaic dataset

Questions??

ARCTIC BOREAL
VULNERABILITY
EXPERIMENT