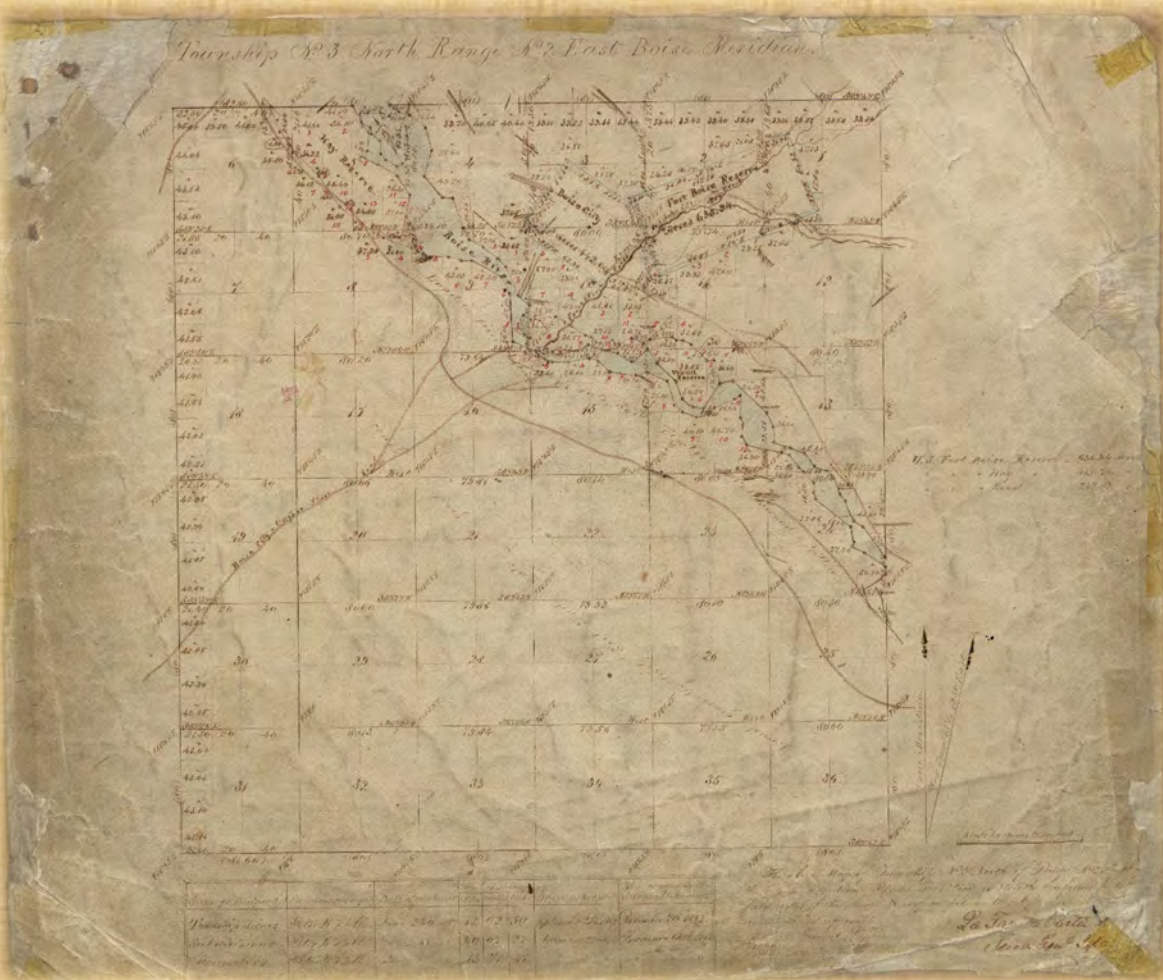




U.S. Department of the Interior
Bureau of Land Management

Historical Survey Plat Mosaic

Idaho – Boise District – GIS Specialist J. Wheeler – Presented May 12, 2022



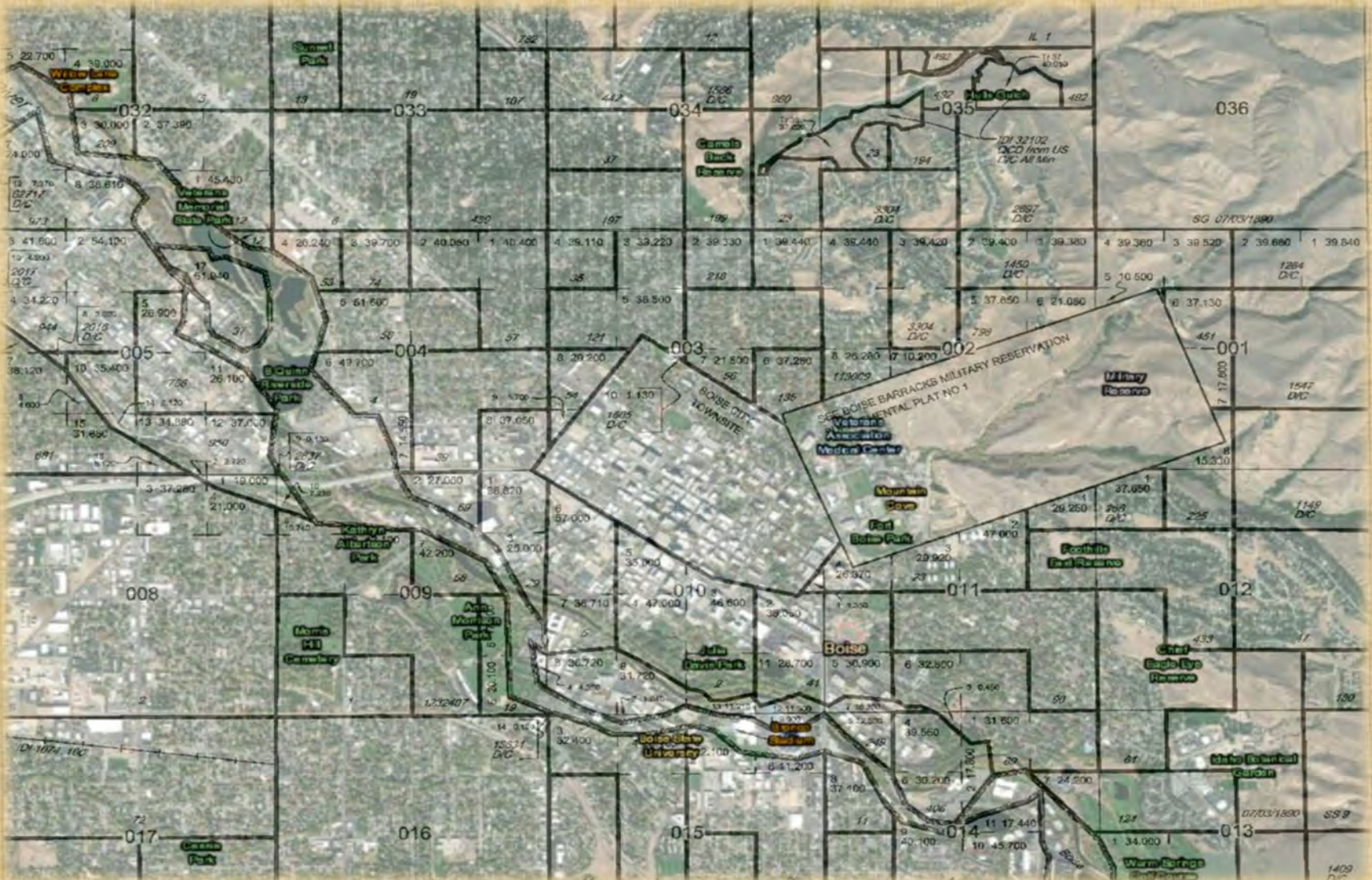


Problem Identified



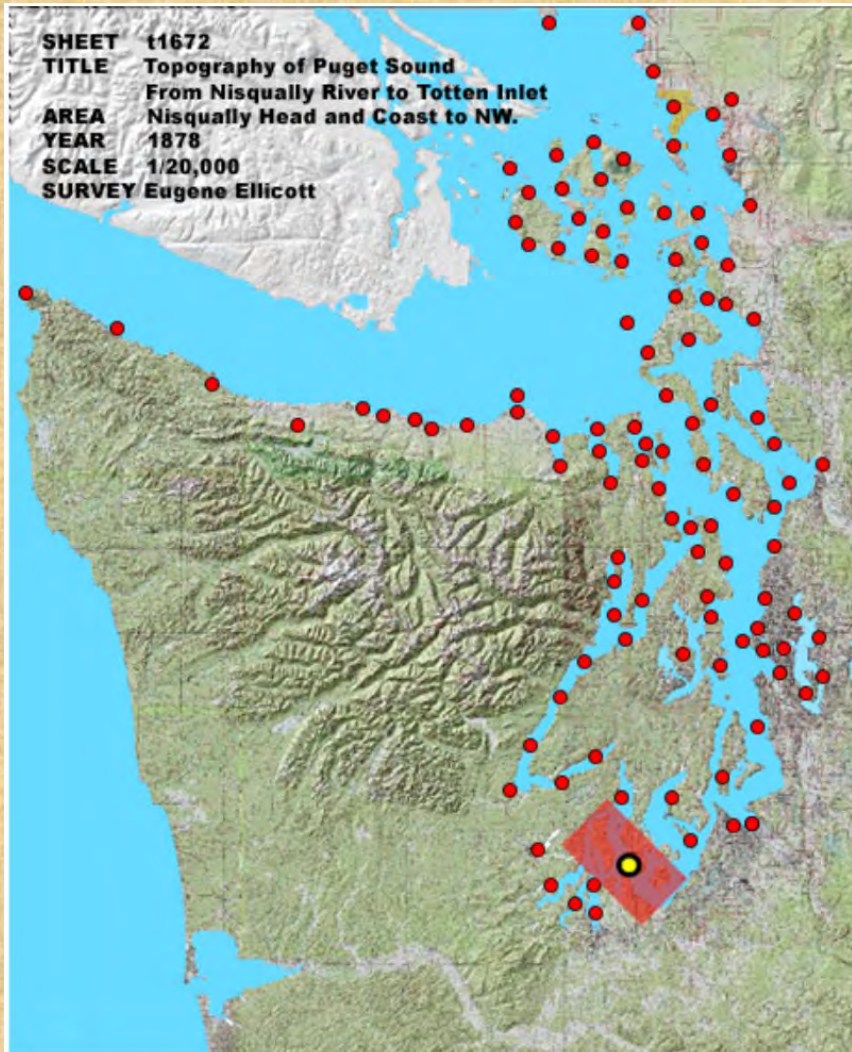


Master Title Plat Mosaic





Puget Sound



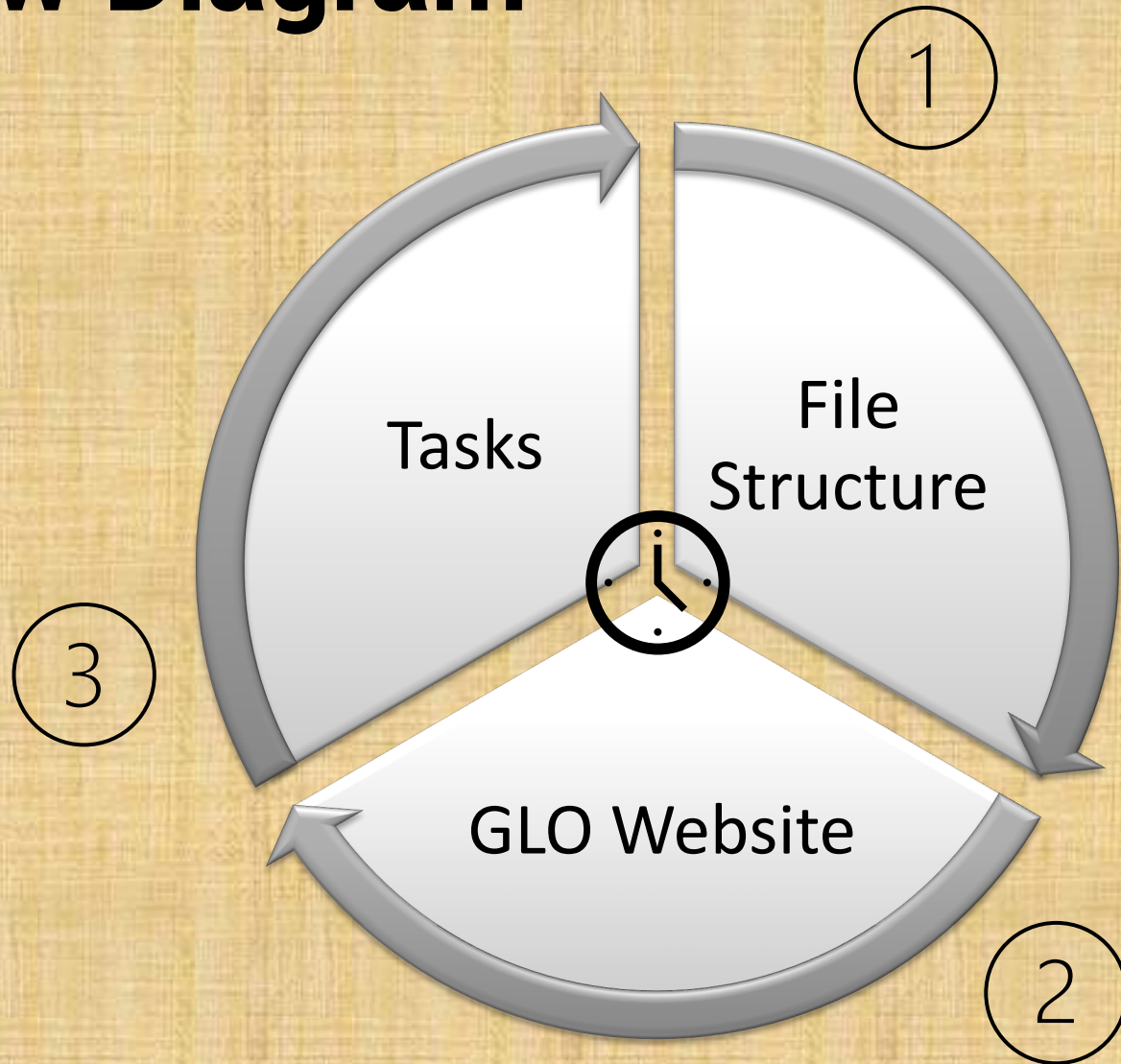


Oregon Trail



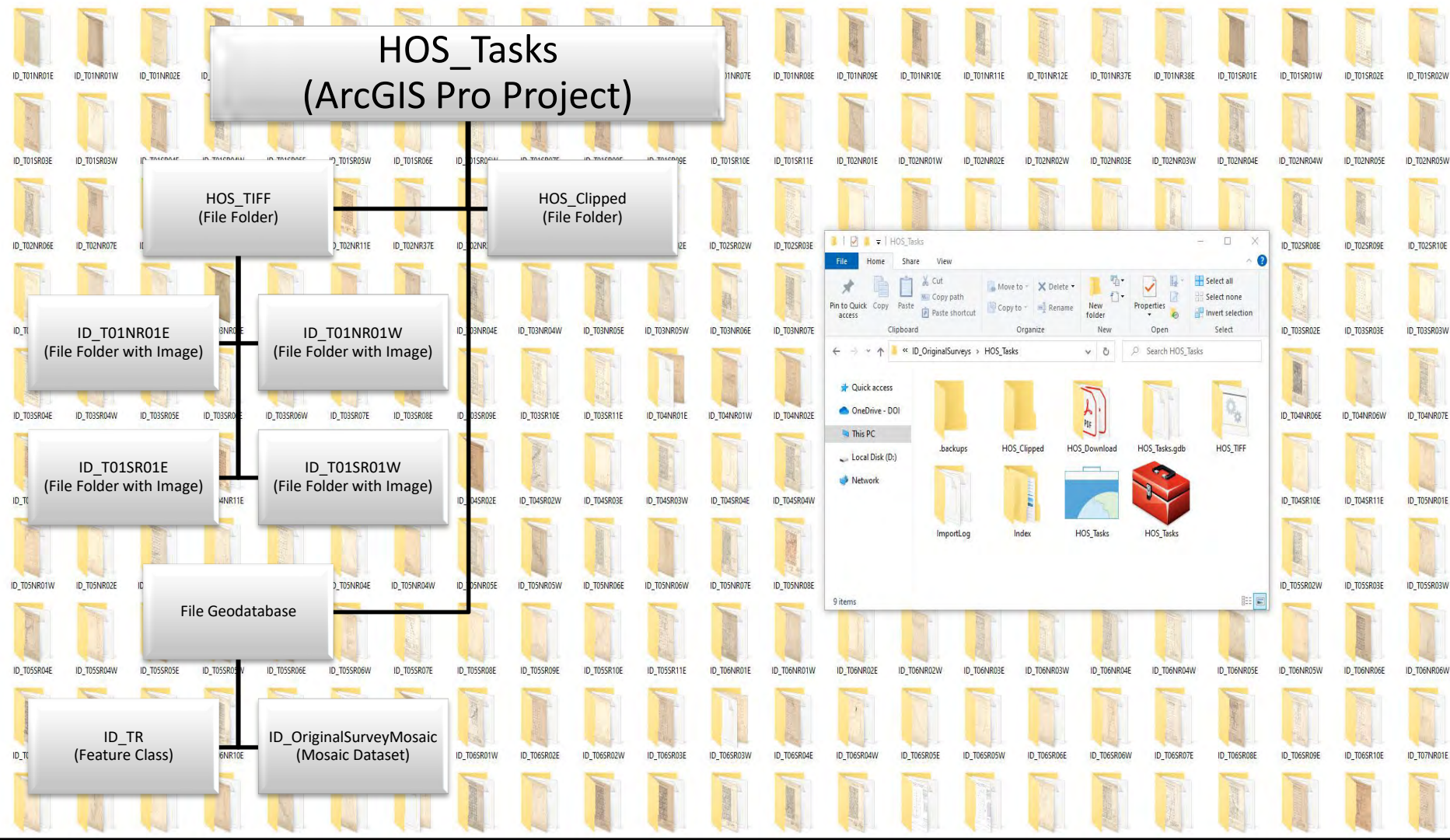


Flow Diagram





File Structure





General Land Office Website

GLO Website

Surveys Plats and
Field Notes

Surveys

The screenshot shows the 'General Land Office Records' website. At the top, it says 'U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT'. Below this is a navigation bar with 'Search Documents', 'Reference Center', and 'Support'. A main heading reads 'The Official Federal Land Records Site'. Below this is a welcome message and a 'Subscribe to General Land Office Record of the Week here.' link. On the right, there is a circular seal for the 'UNITED STATES GENERAL LAND OFFICE'. The main content area features a search form with 'Search Documents By Identifier' and 'Search Documents By Location'. The 'Location' search is set to 'IDAHO'. Below the search form are several document thumbnails, including a 'Plat Image of Original Survey' and a 'Field Note'.

Location (IDAHO)

Land Description
(Township,
Range)

Miscellaneous
(Original Survey)

Search Surveys

Choose Plat Image
of Original Survey

Download SID File

Open with IrfanView

Save as TIFF Raster
to HOS_TIFF Folder





Project Tasks

TASKS

Geoprocessing Workflow

Build TIFF Pyramids

Georeference TIFF Raster to 100K ID_TR

Create Mosaic Dataset

Optimization

Cal Files

Batch Script

Python Version 3

Design

Test

Geoprocessing Script

Run

Refine

Survey Plat Final Tiff

HOS_Clipped

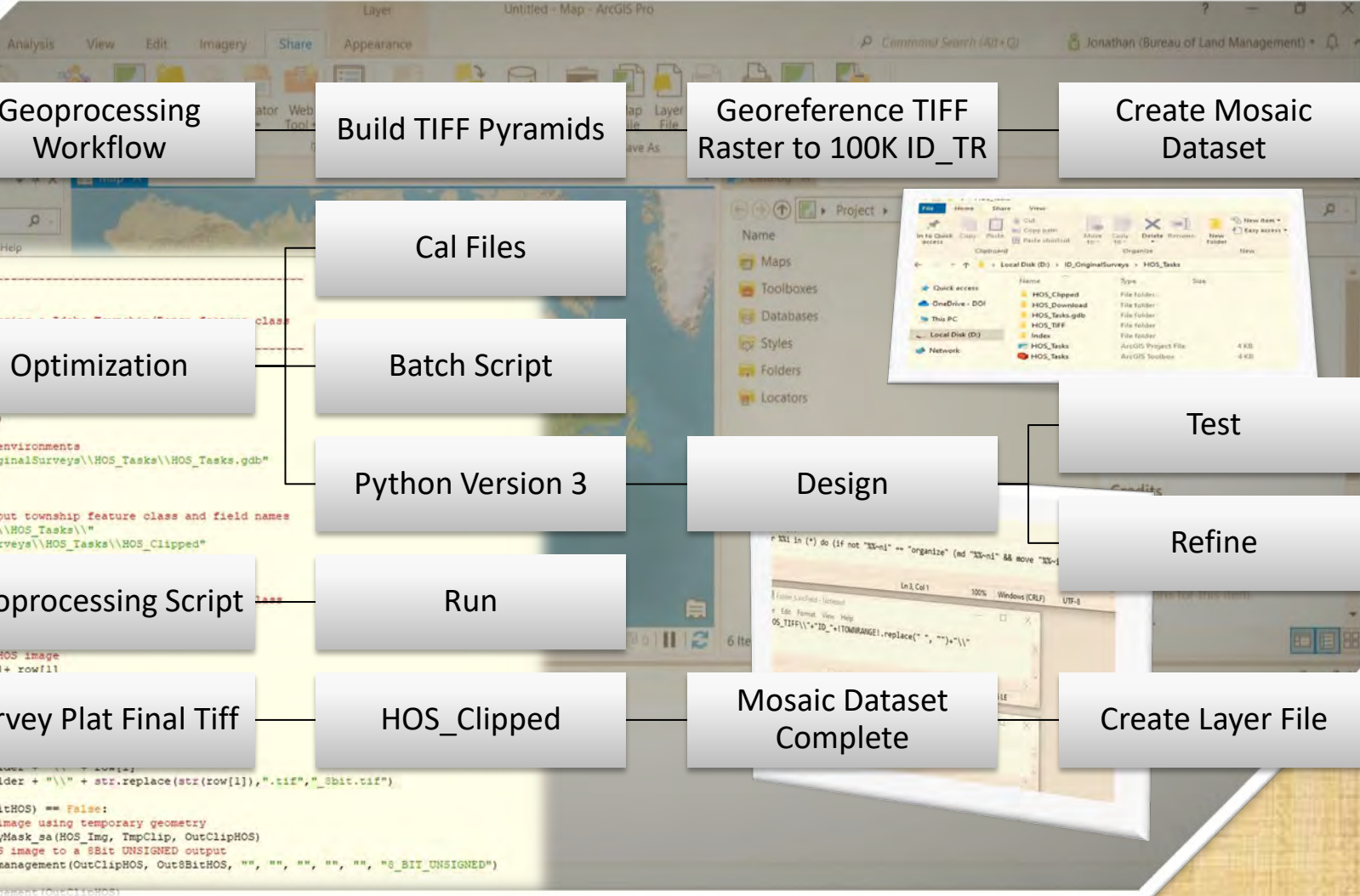
Mosaic Dataset Complete

Create Layer File

```

-3 --
2-02-25
ips HOS
put to a
dule
necessary
ension("spatial")
Workspace & GP environments
ce = "D:\ID_OriginalSurveys\HOS_Tasks\HOS_Tasks.gdb"
i = "NONE"
teOutput = True
t folders and input township feature class and field names
OriginalSurveys\HOS_Tasks\
:\ID_OriginalSurveys\HOS_Tasks\HOS_Clipped"
der", "F:
each =
rchCursor:
rsort:
/(1))
l path to input HOS image
HOS_loc + rowf01+ rowf11
print(HOS_Img)
# Test that input
if arcpy.Exists(H
# Use SHAPES
ImpClip = row
# Create output
OutClipHOS = OutHOSFolder + "\" + str.replace(str(row[1]), ".tif", "_8bit.tif")
Out8BitHOS = OutHOSFolder + "\" + str.replace(str(row[1]), ".tif", "_8bit.tif")
print(Out8BitHOS)
if arcpy.Exists(Out8BitHOS) == False:
# Clip input HOS image using temporary geometry
arcpy.gp.ExtractByMask_sa(HOS_Img, ImpClip, OutClipHOS)
# Copy clipped HOS image to a 8Bit UNSIGNED output
arcpy.CopyRaster_management(OutClipHOS, Out8BitHOS, "", "", "", "", "", "", "8_BIT_UNSIGNED")
# Clean up
arcpy.Delete_management(OutClipHOS)

```



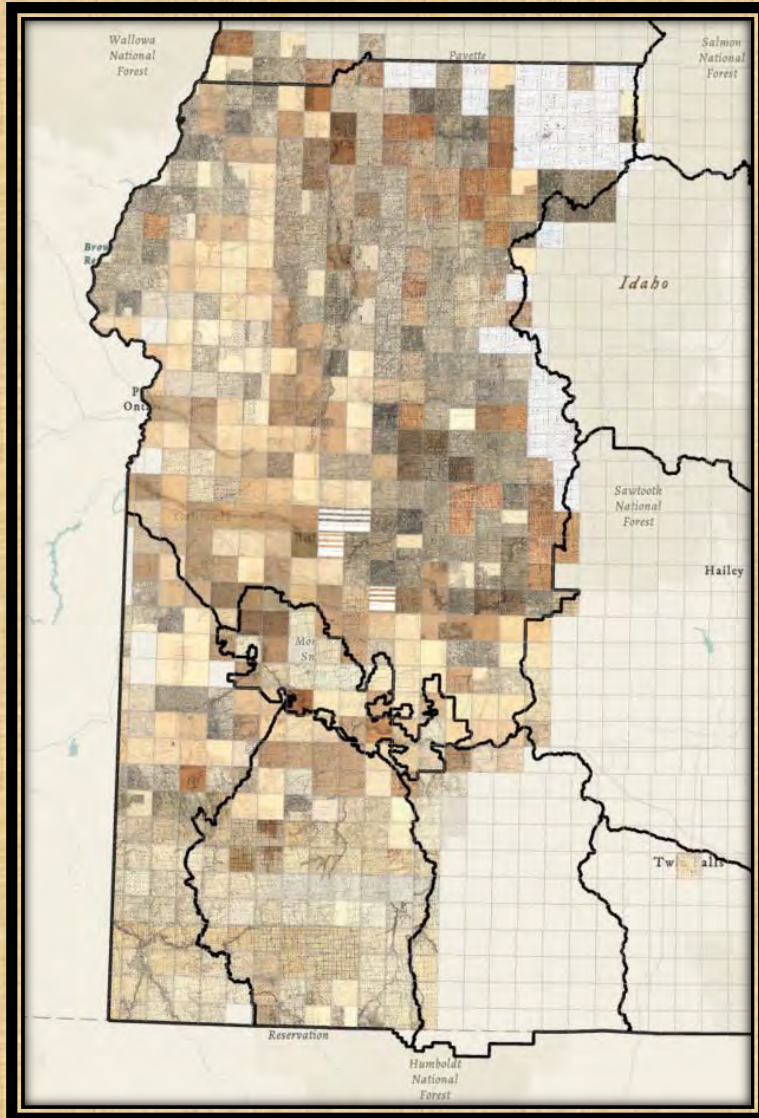


Mosaic Dataset





Survey Plat Mosaic Dataset





Recording Of Uses





U.S. Department of the Interior
Bureau of Land Management

Project Conclusion