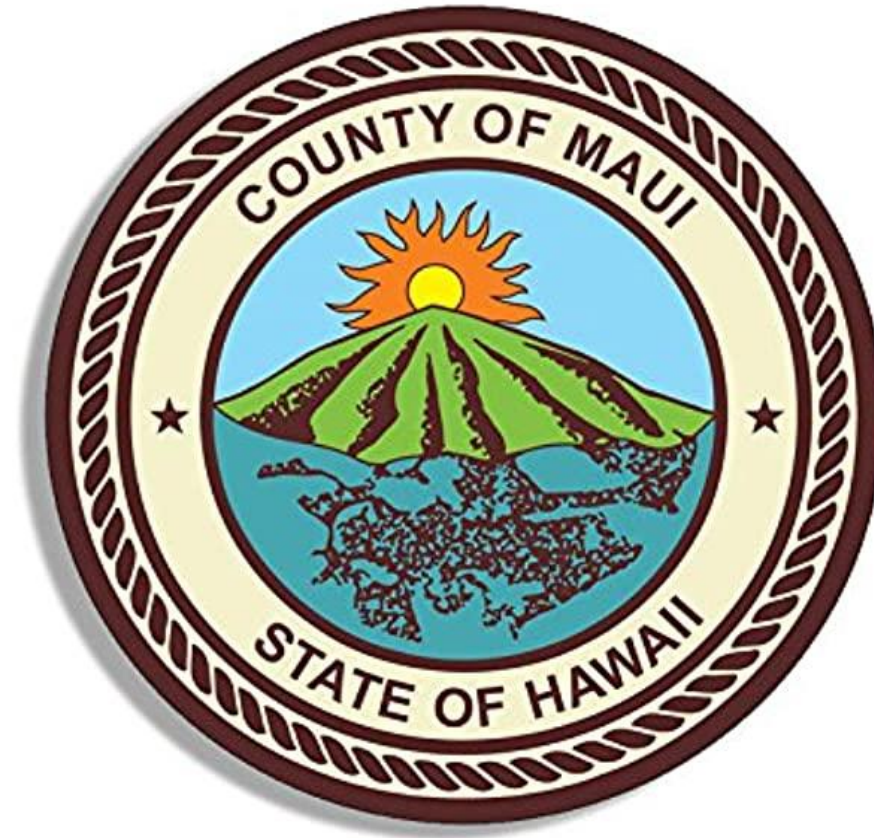


# **BUILDING THE MAUI COUNTY CULTURAL OVERLAY AGRICULTURE AND PUBLIC TRUST**

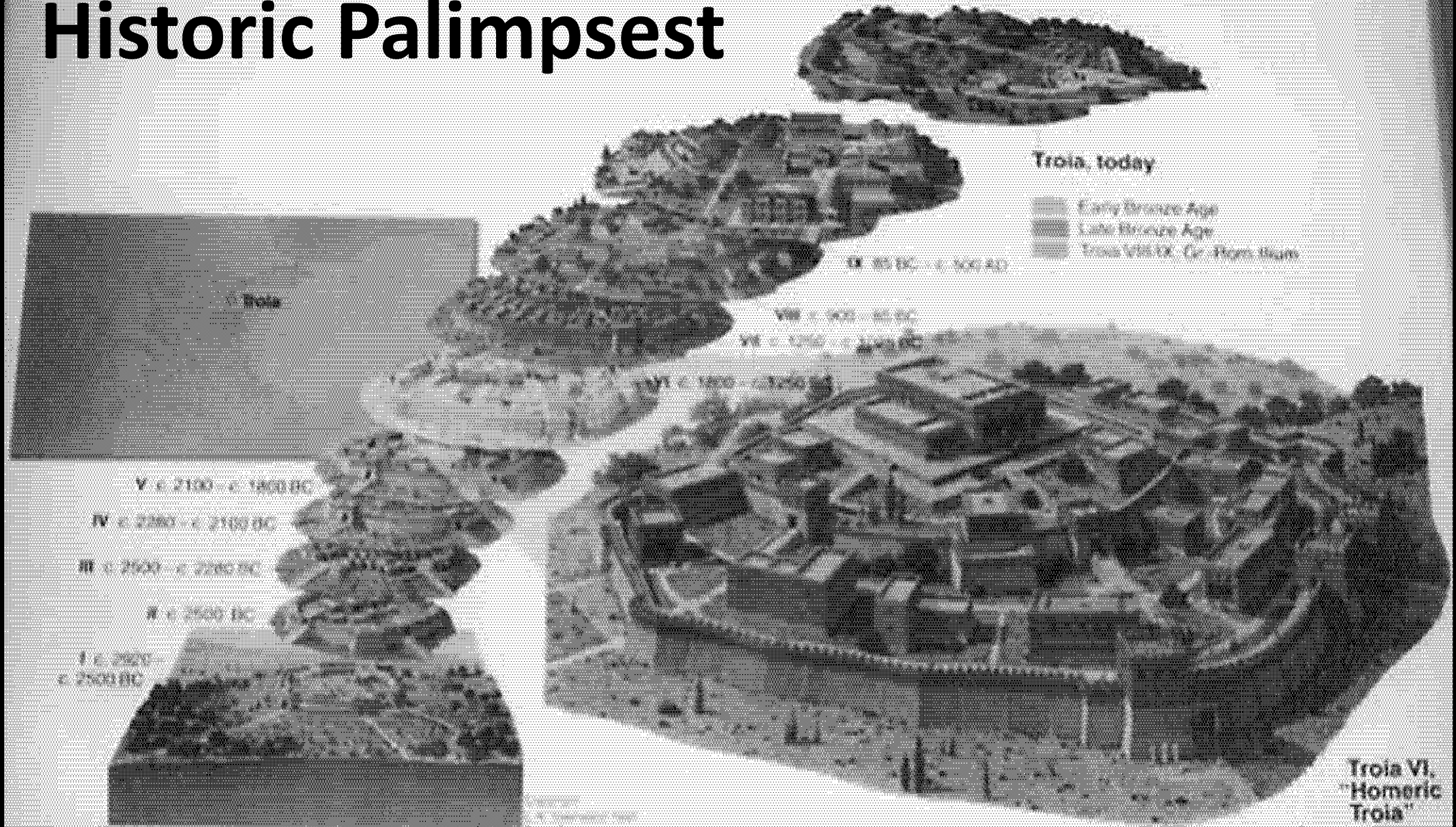


**December 15, 2022**

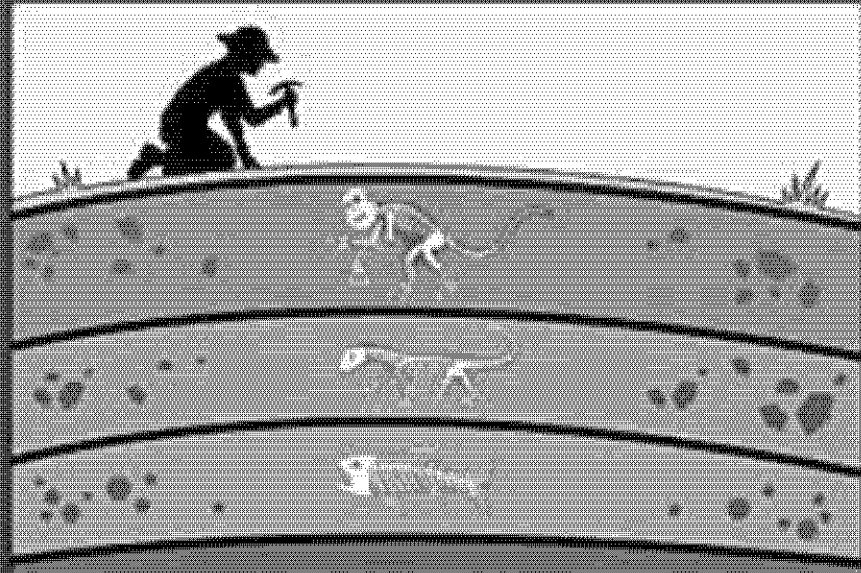
# Displaying Data in Meaningful Ways

Geographic Information System (GIS)

# Historic Palimpsest



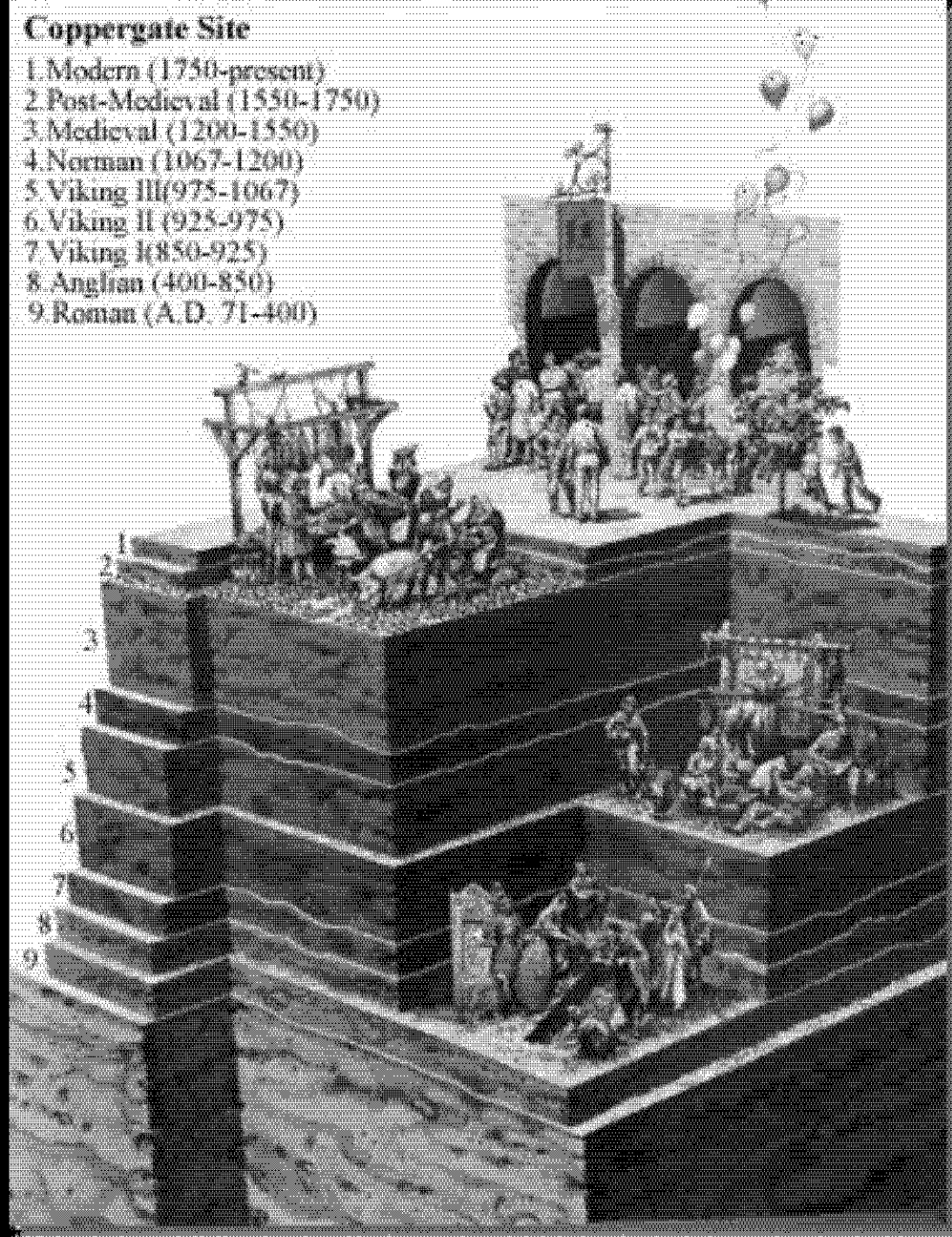
# Over Time



...so the deeper we dig,  
the farther back in time we see

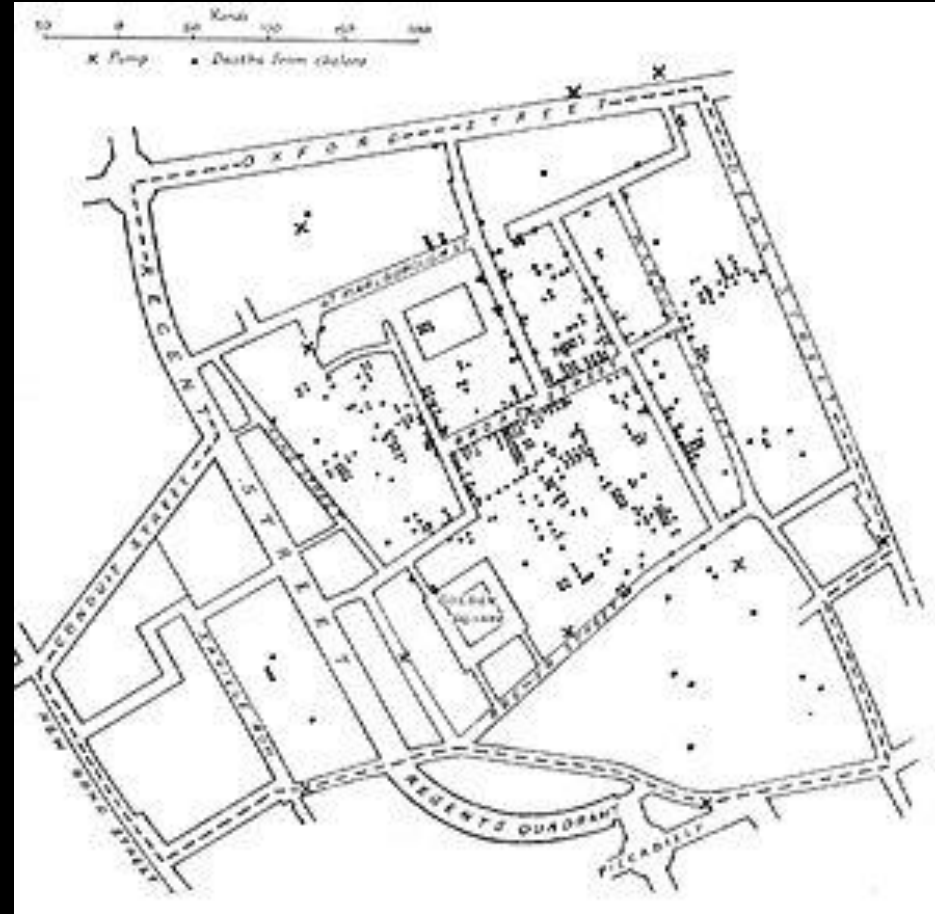
## Coppergate Site

1. Modern (1750-present)
2. Post-Medieval (1550-1750)
3. Medieval (1200-1550)
4. Norman (1067-1200)
5. Viking III (975-1067)
6. Viking II (925-975)
7. Viking I (850-925)
8. Anglian (400-850)
9. Roman (A.D. 71-400)

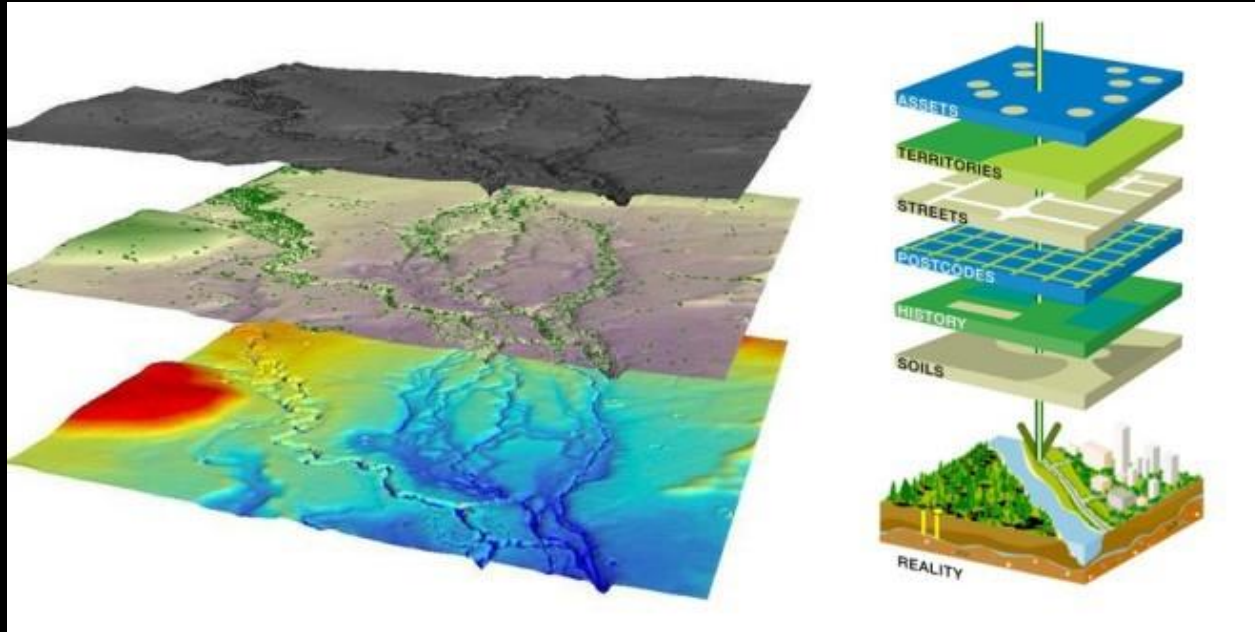


# Across Space

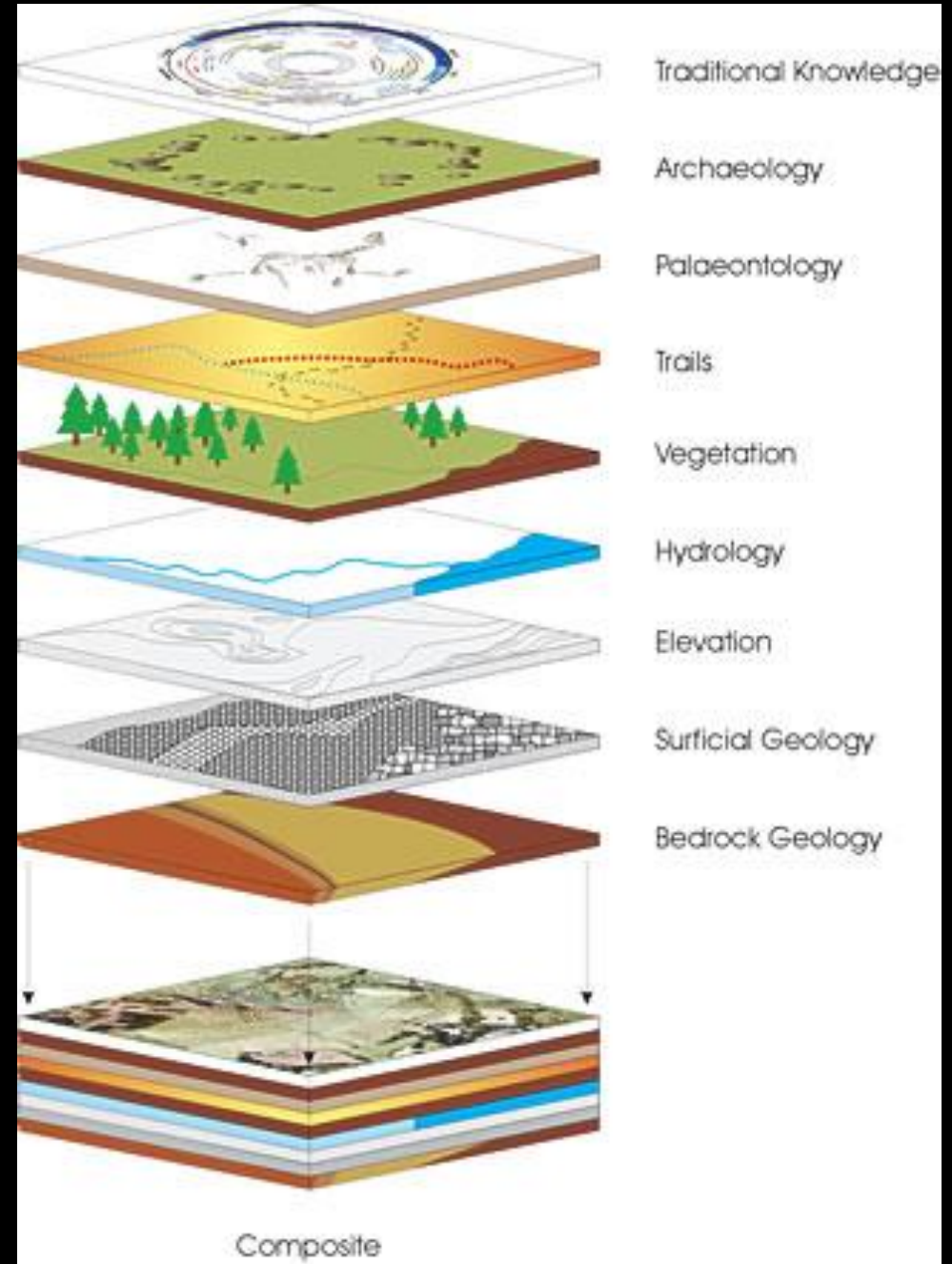
The analysis of spatial relationships **both within sites and between sites**



Map by Dr. John Snow of London, showing clusters of cholera cases in the 1854 Broad Street cholera outbreak. This was one of the first uses of map-based spatial analysis.

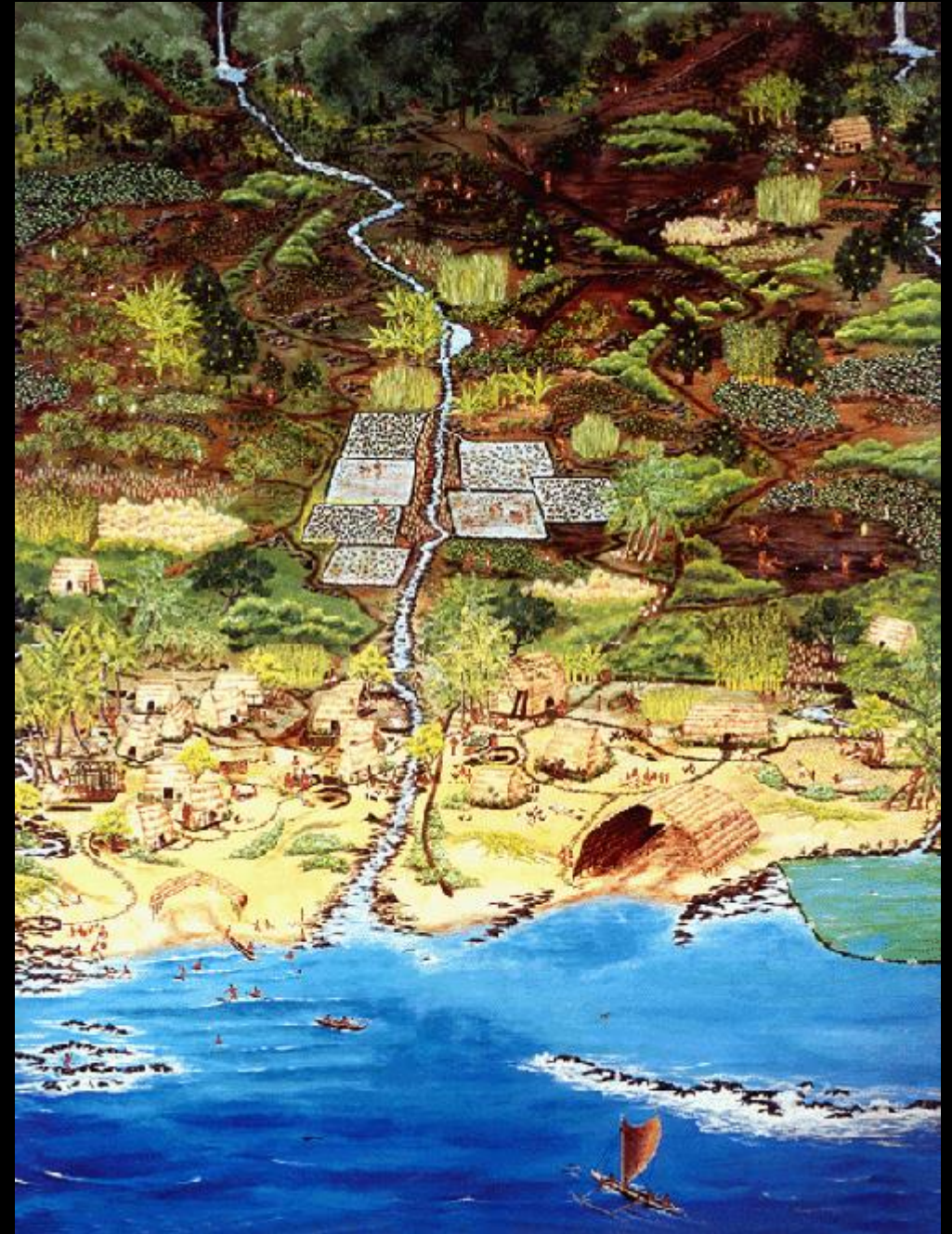


**Geographic Information System (GIS) analysis is a useful tool for scientific research and data management. It provides a wider perspective to analyze cultural landscapes.**



Composite

A Cultural Landscape consists of *material culture* including artifacts, biofacts (ecofacts), architecture (features), sites and the relationship between sites.



# Continuous use over time





# Types of Data that can be Displayed

- **Maps and Surveys**
- **Images**
- **Documents & Reports**
- **Sound Clips**
- **Video Clips**
- **Important Events**
- **Cultural knowledge**
- **Architecture**
- **Archaeological Sites**

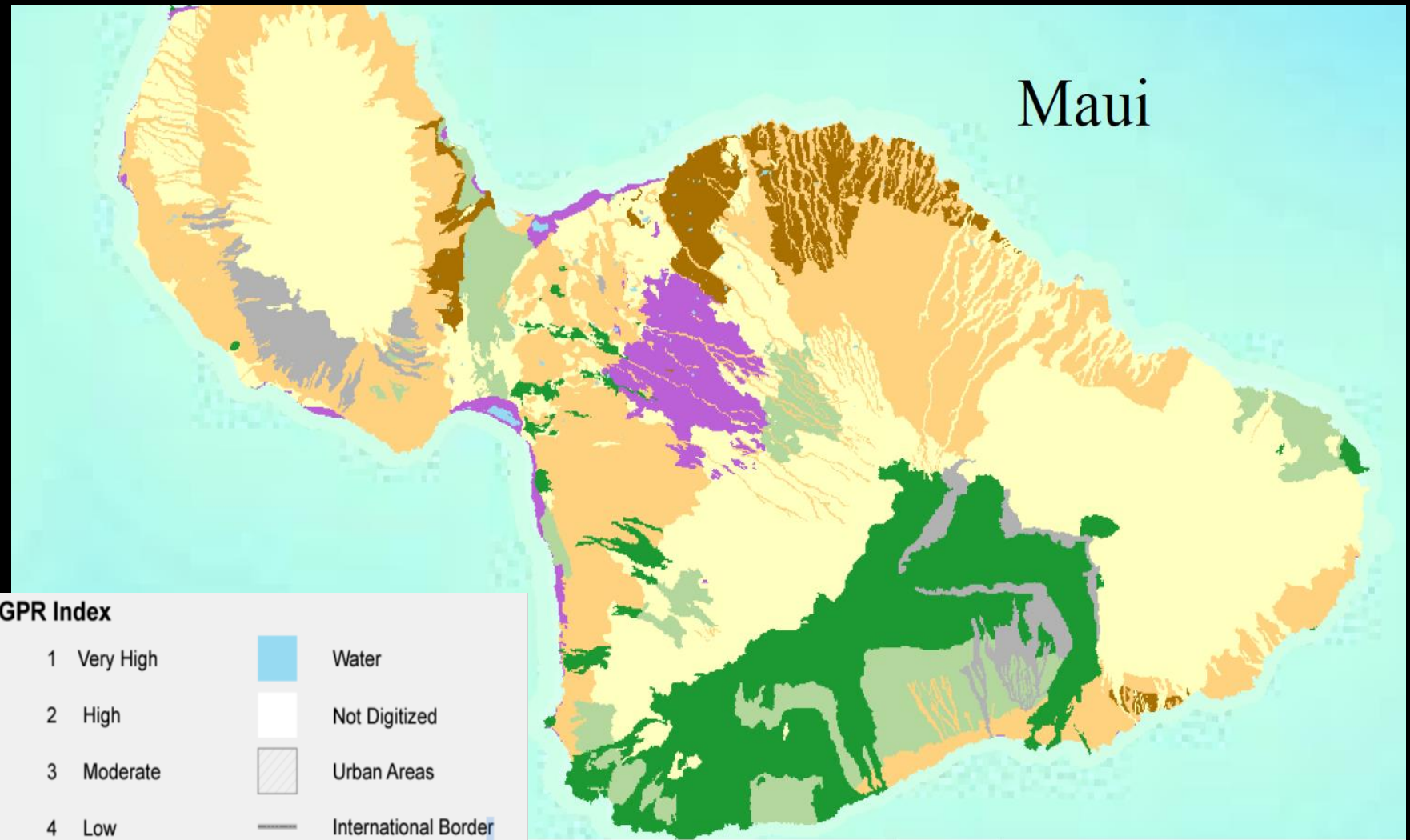
The image features a composite background. The outer portion is a satellite-style view of the Earth, showing continents and oceans. The inner portion is a detailed view of a human eye, with the iris and pupil visible. A bright white light source is positioned at the center of the pupil, creating a lens flare effect. The text "Applying a Cultural Lens" is overlaid in white, sans-serif font across the center of the eye and the Earth's horizon.

# Applying a Cultural Lens



***Wahi Pana & Wahi Kapu***  
**Sacred & Tabu Cultural Landscapes**

# Soils Maps



Maui

USDA-NRCS. 2009. *Ground Penetrating Radar Suitability – Hawaii* (map). Using ArcGIS, Version 9.2 (Environmental Systems Research Institute, Inc., Redlands, Ca.), National Soil Survey Center, Lincoln, Nebraska. Scale 1:900,000. Map projection using Hawaii\_Albers\_Equal\_Area, North American Datum 1983.

USDA-NRCS. 2008. Soil Survey Geographic Database (SSURGO) version 2.1. Hawaii Collection. Honolulu, Hawaii. Soil Data Mart Source (<http://soidatamart.nrcs.usda.gov>). April 2009 edition.

Soil Survey Staff. 2009. NSSC DATA – Ground Penetrating Radar Suitability Index (GPRS) [data file] - National Soil Information System (Evaluation Draft - 02/2009). USDA Natural Resource Conservation Service, National Soil Survey Center, Lincoln, Nebraska. (<http://soils.usda.gov>)















Current County and Equivalent, TIGER/Line 2008 (cartographic boundary file, tl\_2008\_us\_county.zip). 2008. U.S. Census Bureau. Available FTP: <ftp://ftp2.census.gov/geo/tiger/TIGER2008/>. [Accessed on February 20, 2009]

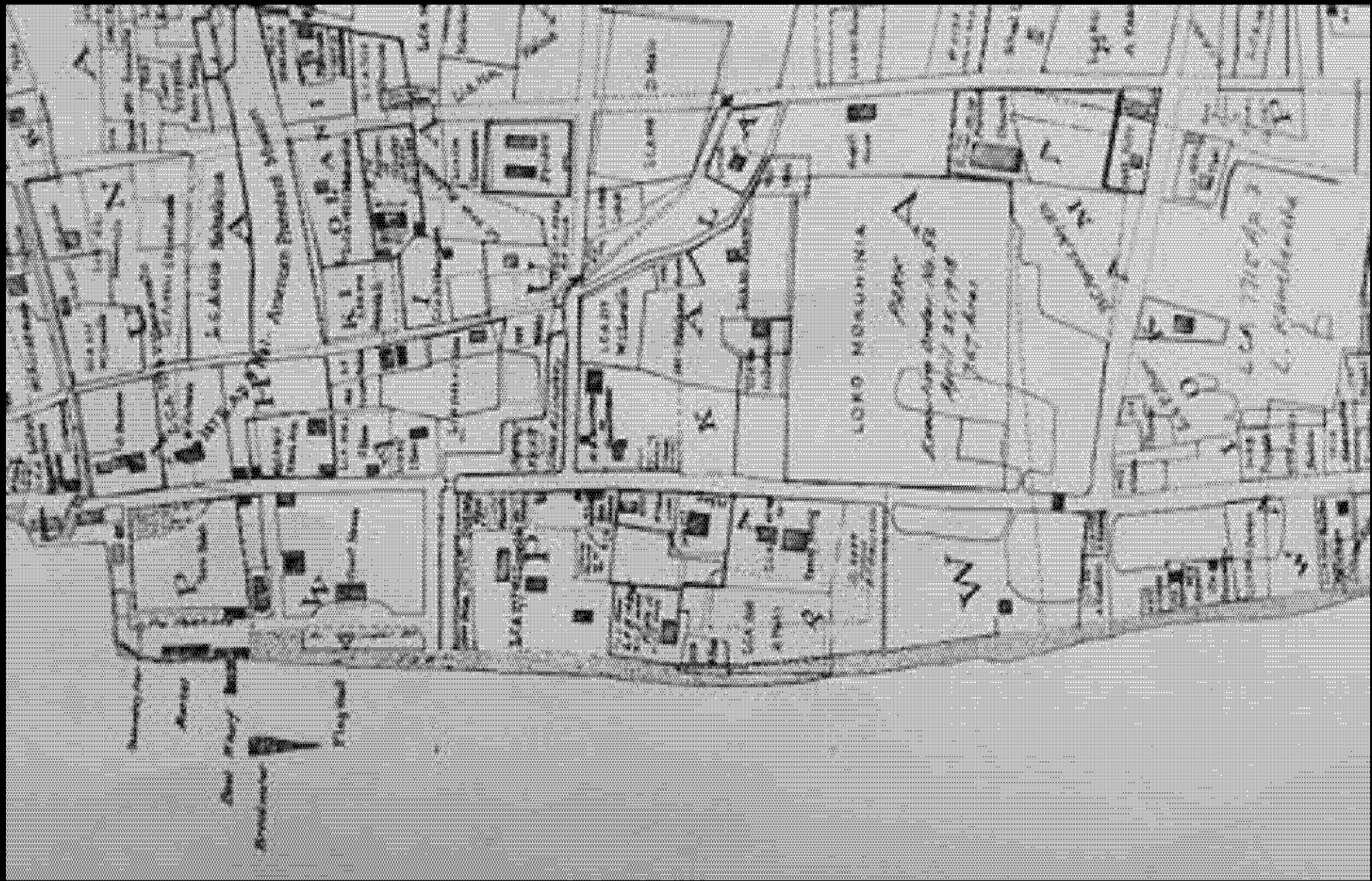
Current State and Equivalent, TIGER/Line 2008 (cartographic boundary file, tl\_2008\_us\_state.zip). 2008. U.S. Census Bureau. Available FTP: <ftp://ftp2.census.gov/geo/tiger/TIGER2008/>. [Accessed on February 20, 2009]

Urban Areas (generalized cartographic boundary file, ua99\_d00\_shp.zip). 2000. U.S. Census Bureau. Available FTP: <http://www.census.gov/geo/cob/body/ua/ua00shp/>. [Accessed on February 20, 2009]

USGS. Analytical Hillshade computed from 1 kilometer National Elevation Dataset (NEDS) using the following parameters: 315 degrees altitude, 45 degrees azimuth, and z factor 1x. Prepared by USDA-NRCS-NSSC, Lincoln, NE.

## GPR Index

	1 Very High		Water
	2 High		Not Digitized
	3 Moderate		Urban Areas
	4 Low		International Border
	5 Very Low		State Line
	6 Unsuited		County Line
	Not Rated		Interstate Highway



1884 Map of Lahaina by Alexander



**Hoapili's House on the edge of Loko o Mokuhina**



**Kamehameha III & Royal Family**

Buke Hakau Paa

no lea matule aina

i Hooholoia

iwaena e

Kamihameha III

ame

Na Liu

ame

Na Honokiki ana

Hale Niu Koonohou

lanuare

1848.

William Hamanaka	1	Hakalo	21	Kalushikama	21
Richard L. L.	2	Kalaupoko	22	Lanai	22
John H. H.	3	E. H. H.	23	Honolulu	23
L. H.	4	Kalaupoko	24	Kalaupoko	24
John H. H.	5	John H. H.	25	Kalaupoko	25
William H. H.	6	Hale	26	Honolulu	26
W. H. H.	7	Hale	27	Honolulu	27
M. H. H.	8	Hale	28	Honolulu	28
H. H. H.	9	Hale	29	Honolulu	29
John H. H.	10	Hale	30	Honolulu	30
Charles H. H.	11	Hale	31	Honolulu	31
L. H. H.	12	Hale	32	Honolulu	32
John H. H.	13	Hale	33	Honolulu	33
John H. H.	14	Hale	34	Honolulu	34
John H. H.	15	Hale	35	Honolulu	35
John H. H.	16	Hale	36	Honolulu	36
John H. H.	17	Hale	37	Honolulu	37
John H. H.	18	Hale	38	Honolulu	38
John H. H.	19	Hale	39	Honolulu	39
John H. H.	20	Hale	40	Honolulu	40
John H. H.	21	Hale	41	Honolulu	41
John H. H.	22	Hale	42	Honolulu	42
John H. H.	23	Hale	43	Honolulu	43
John H. H.	24	Hale	44	Honolulu	44
John H. H.	25	Hale	45	Honolulu	45
John H. H.	26	Hale	46	Honolulu	46
John H. H.	27	Hale	47	Honolulu	47
John H. H.	28	Hale	48	Honolulu	48
John H. H.	29	Hale	49	Honolulu	49
John H. H.	30	Hale	50	Honolulu	50



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**DRAFT -- Archaeological Inventory Survey Report for the  
Proposed Mokuhinia Ecosystem Restoration Project  
Waiokama and Lower Waine‘e Ahupua‘a, Lāhainā District,  
Maui Island**

**TMK: [2] 4-6-007: 001, 002, and 036-038**

Prepared for  
County of Maui

Prepared by  
Tanya L. Lee-Greig, M.A.  
Jonas Madeus, B.A.  
Zachariah Royalty, B.A.  
Frederick LaChance, B.A.  
Josie Yucha, M.A.  
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and  
Hallett H. Hammatt, Ph.D.

Cultural Surveys Hawai‘i, Inc.  
Wailuku, Hawai‘i  
(Job Code: WAINEE 6)

December 2017

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1860 Main St.  
Wailuku, Hawai‘i 96793  
Ph: (808) 242-9882  
Fax: (808) 244-1994

246007002

Go



**Lahaina Historic District**  
Site Number:03001  
State Site:50-50-03-03001

**Land Award**  
Type: Land Commission Award  
Claimant: Makaulia  
Helu: 10221 & 10218:3

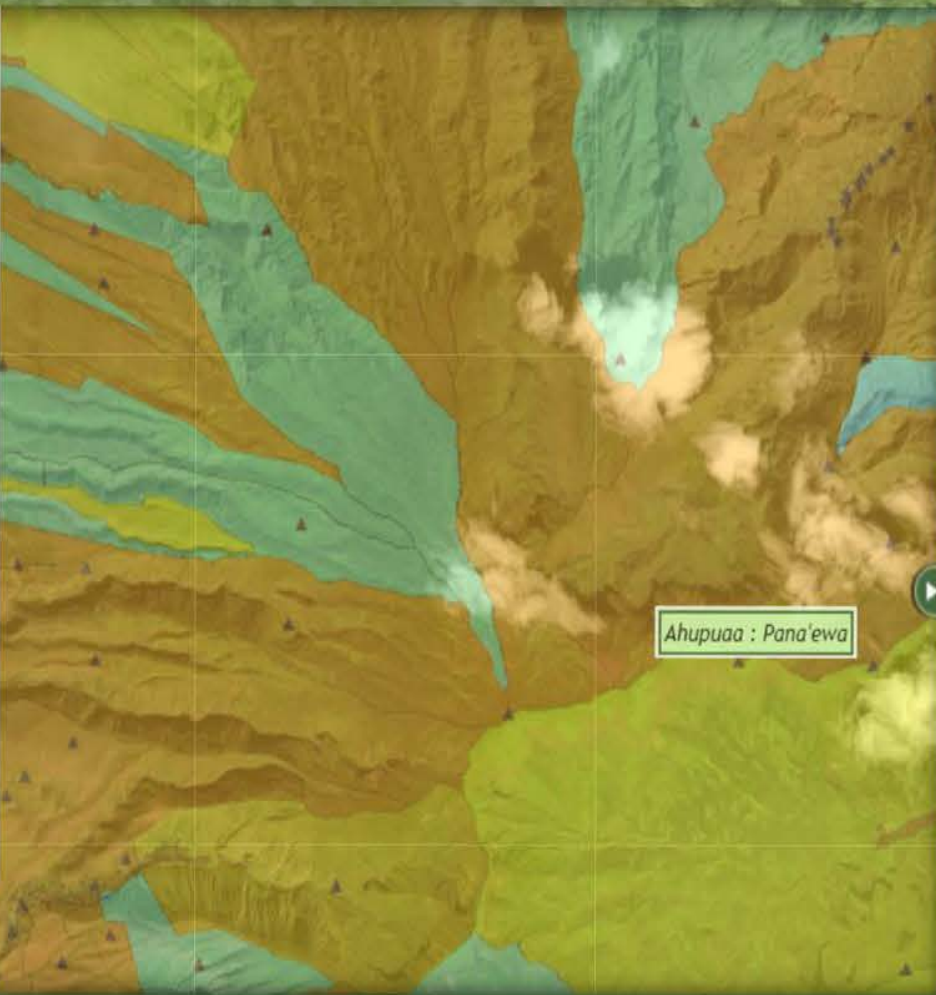
**Land Award**  
Type: Land Commission Award  
Claimant: Makaulia  
Helu: 10221:1

**Tax Map Key Parcel**  
TMK#: 246011006  
Owner: Lokahi - Condo Master  
Trust Land Status: Null

**Tax Map Key Parcel**  
TMK#: 246011008  
Owner: Aina Nalu - Condo Master  
Trust Land Status: Null

**Tax Map Key Parcel**  
TMK#: 246011999  
Owner: Road  
Trust Land Status: Null

**Ahupua'a: Paunau**  
Moku: Lāhainā  
Mokupuni: Maui



### Search Results

TMK (1)			Historic Sites (0)		
'Ili (0)		Ahupua'a (0)		Moku (0)	
Land Awards			Crown Lands (0)		
Tmk			Owner		
246007002			State DLNR		



**First we make the layer cake  
and then we can embellish it.**



## APT Committee

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**From:** Janet Six <sixjanet@gmail.com>  
**Sent:** Thursday, December 15, 2022 2:50 PM  
**To:** APT Committee; Janet Six  
**Subject:** APT Presentation  
**Attachments:** Cultural Overlay 121522 pres.pptx

You don't often get email from sixjanet@gmail.com. [Learn why this is important](#)

My PowerPoint Presentation is attached.

Below is the link to the interactive map

<https://mauicounty.maps.arcgis.com/apps/webappviewer/index.html?id=0fcc3b2a89154dd1b64c4e49d4c1e3a5>