



Fort Bragg Unlocked: Addressing the Path Ahead

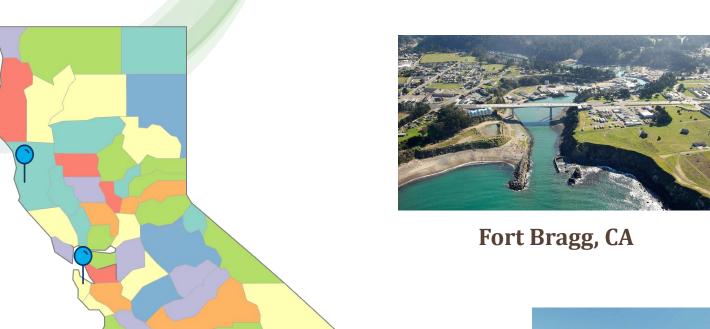
By: Angelica Cruz & Jully Voong

CSULB MSGISci - Cohort 12





Where is Cal State Long Beach?





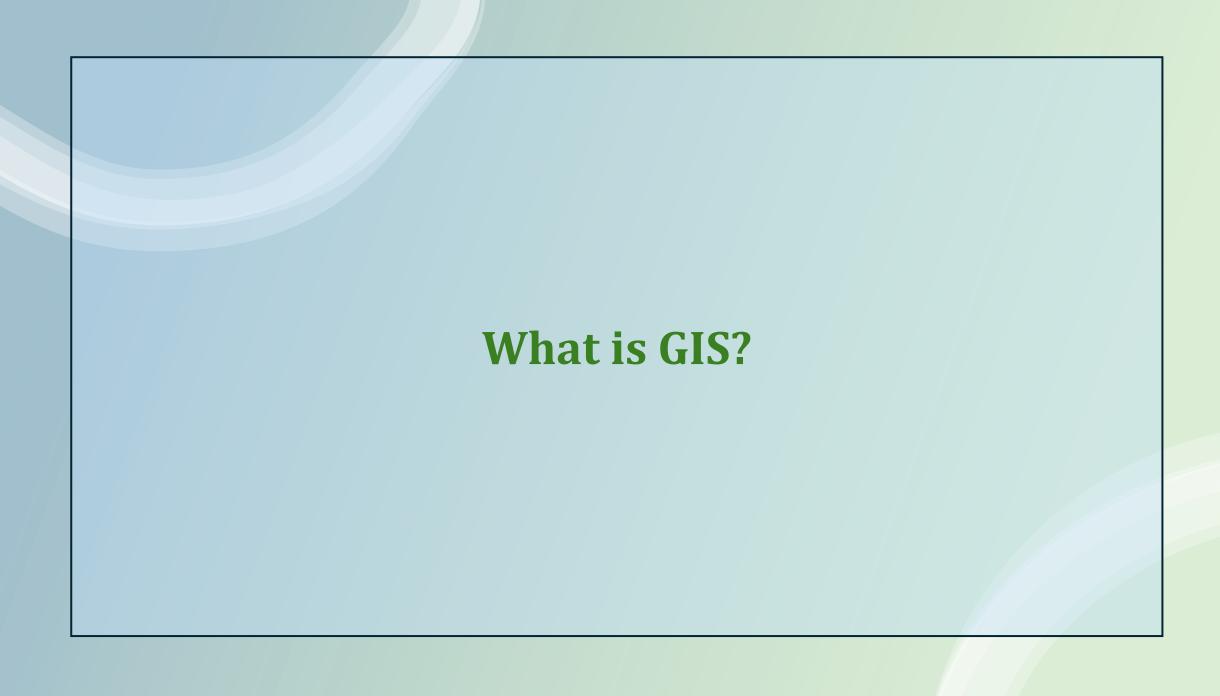
San Francisco



Cal State Long Beach ~ 570 miles south of Fort Bragg



Los Angeles County

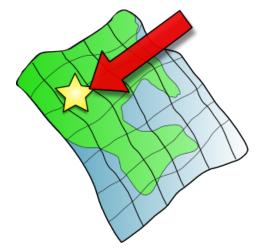


GIS Explained

GIS, or *Geographic Information Systems*, is a computer-based system that analyzes and displays geographically referenced information.

Geographic

Concerning locations on the Earth



Information

Descriptive data about these locations



Systems

Computer-based way to manage and analyze this data





Current Address Management System



Only 1 individual is responsible for maintaining the system

• Fort Bragg relies on paper parcel maps and parcel data provided by the County Assessor

Address changes or new additions are marked on paper parcel maps

Project Goals and Outcomes



- Locate, map, and analyze all addresses within Fort
 Bragg's city boundary
- Comprehensive, accurate, and up-to-date geospatial database of addresses
- Fully digitize the current system for improved maintenance and upkeep
- Starting point
- Will support urban planning, public services, and community engagement



Other Deliverables

• Web application for residents to look up their Assessor's Parcel Number (APN)

Standard Operating Procedure (SOP)

Metadata Documentation

Detailed Methodology

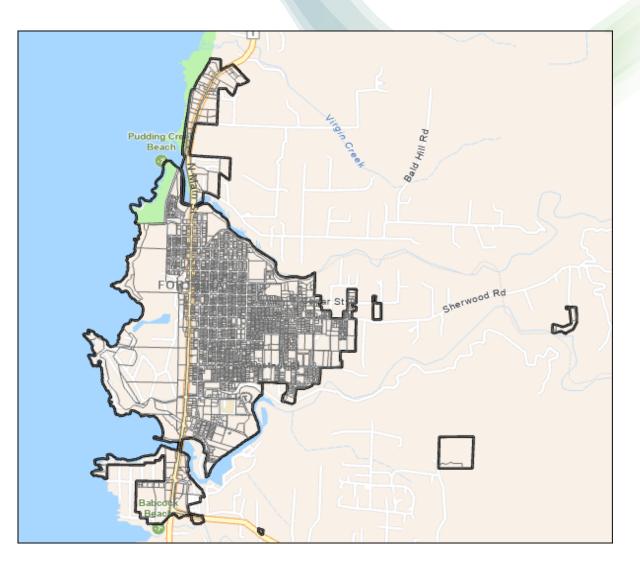


Content	Data Source
Fort Bragg City Boundary	City of Fort Bragg
Mendocino County Address Point Data	Mendocino County GIS Division
Mendocino County Road Centerline Data	Mendocino County GIS Division
Mendocino County Parcel Data	Mendocino County GIS Division
California Building Footprint Data	Microsoft Maps – US Building Footprint GitHub Repository
31 PDF Files of Scanned Parcel Maps	City of Fort Bragg
Letter of Address Assignment	City of Fort Bragg

Fort Bragg City Boundary

Pudding Cre Beach FORT BRAGG

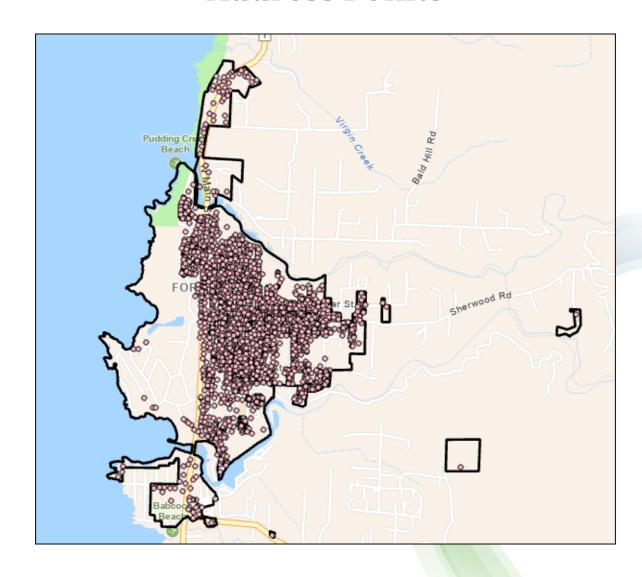
Parcel Data



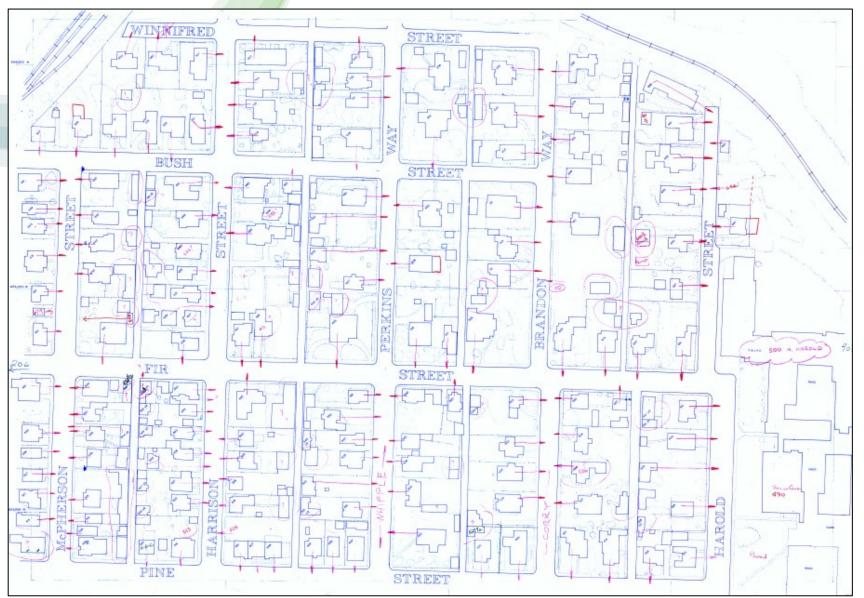
Road Centerlines

Pudding Cr Beach Sherwood Rd

Address Points

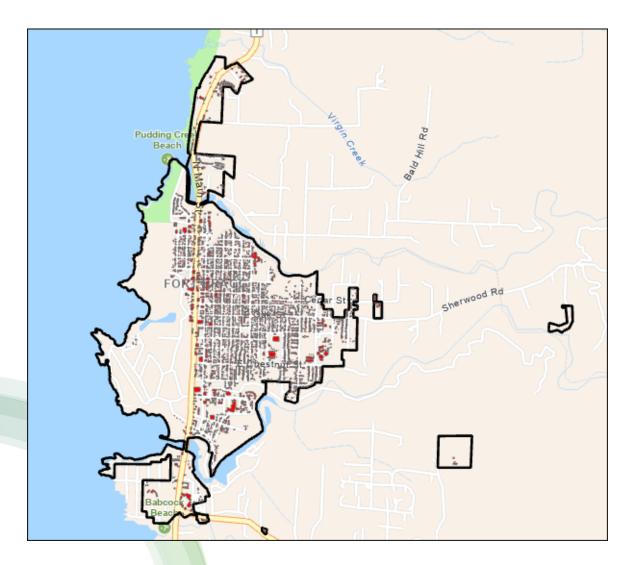


Scanned Parcel PDF Maps

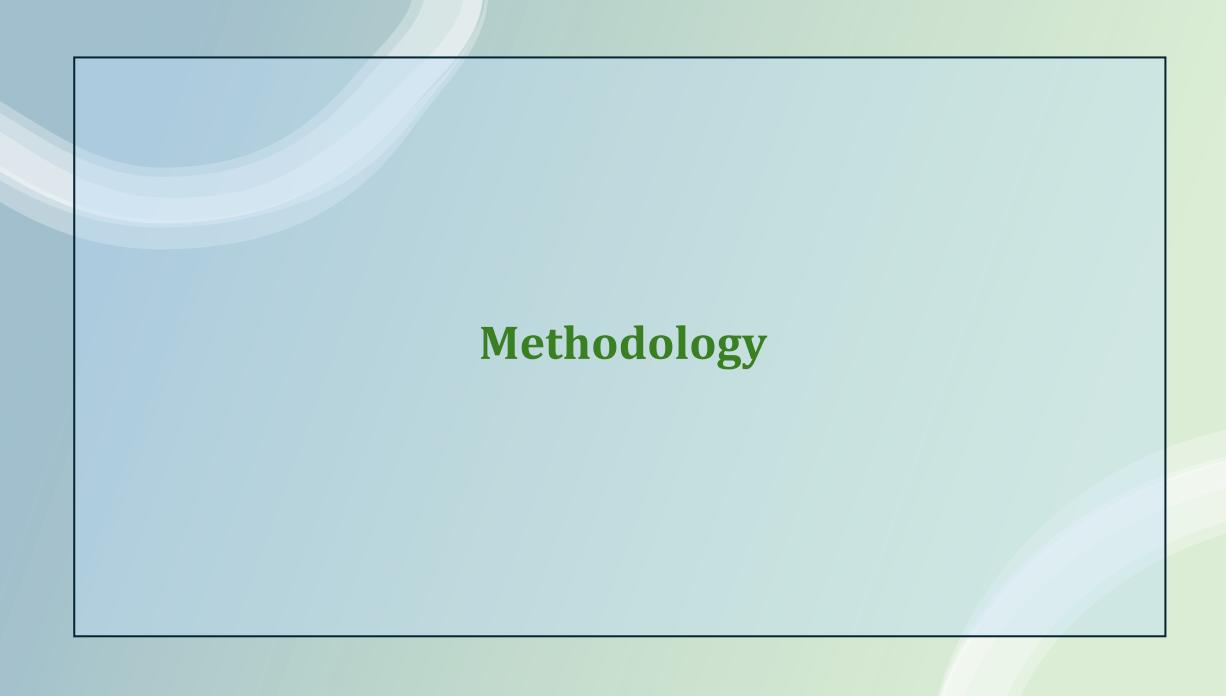


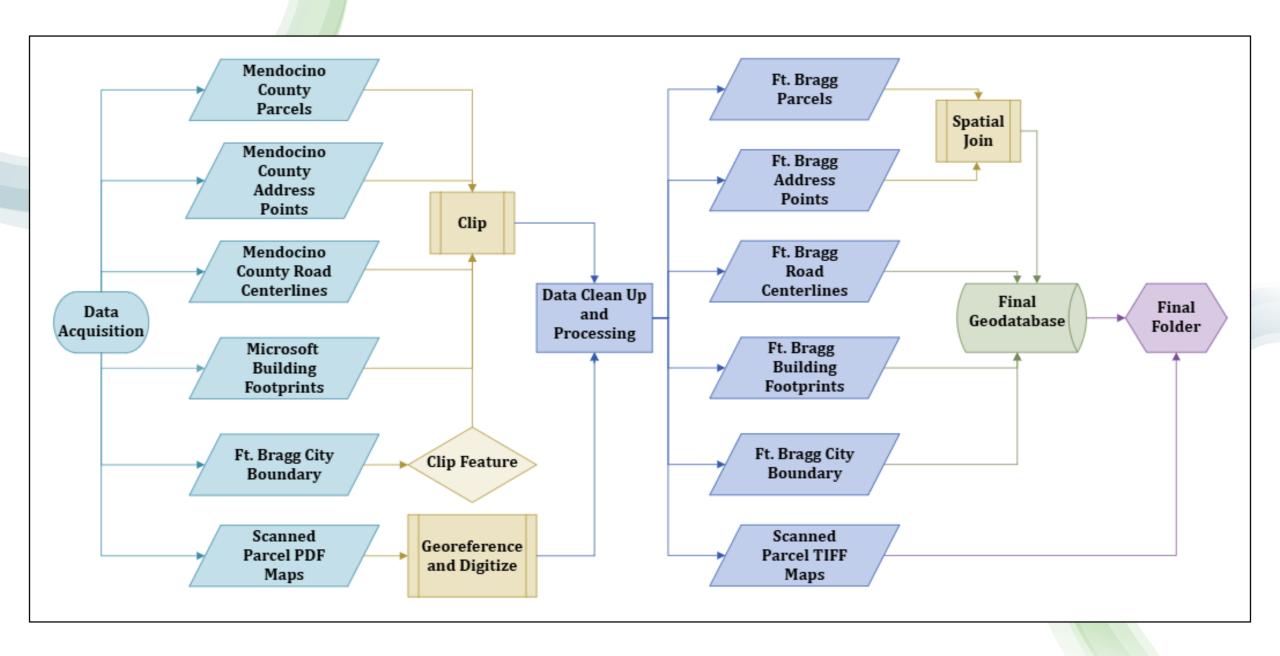
• The 31 parcel maps were scanned in April 2023.

Building Footprint

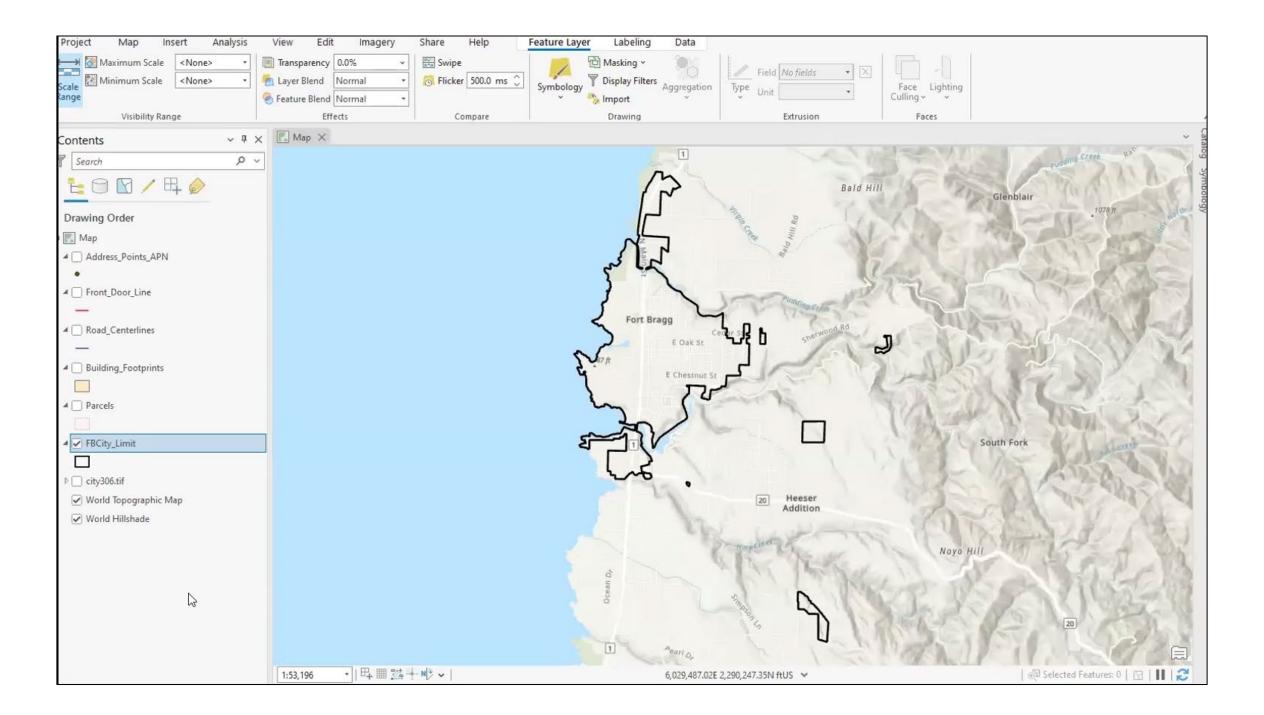


- Obtained from Microsoft Maps via the US Building Footprint GitHub repository
- The building footprints are from 2019-2020
- Not a complete dataset





Overview of Address Geodatabase





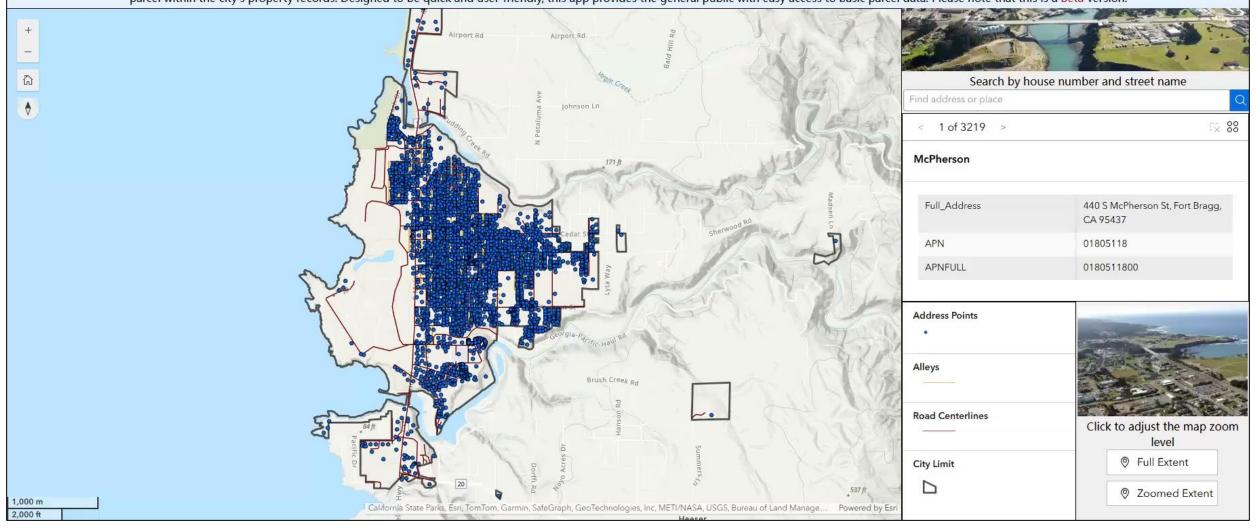


City of Fort Bragg – Interactive Address & Parcel Viewer



Welcome to the Interactive Address and Parcel Viewer!

This web app allows you to search for property information by entering a specific address. Once the address is entered in the search bar, a popup will display the corresponding Assessor's Parcel Number (APN), which uniquely identifies the parcel within the city's property records. Designed to be quick and user-friendly, this app provides the general public with easy access to basic parcel data. Please note that this is a beta version.

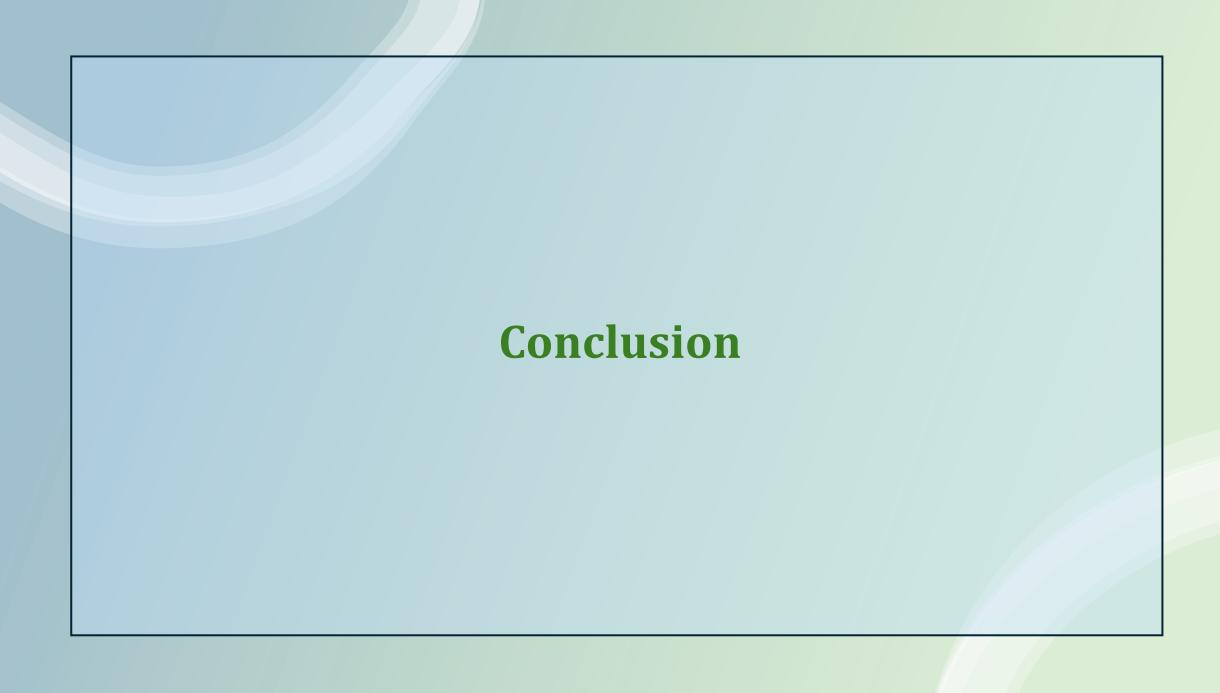


Results & Key Deliverables

1. Address Geodatabase on ArcGIS Pro: Established a foundation for the Fort Bragg's transition to a digital address data management system

2. Updated Archival Map System: Digitized and georeferenced scanned parcel maps

- **3. User-Friendly Web-Based Application:** Interactive dashboard for linking addresses to APNs, accessible to both the public and internal users
- **4. Standard Operating Procedure (SOP):** Guide for data updates and staff training to assist users in maintaining and updating the system
- **5. Methodology Documentation:** Detailed process documentation for referral and noting all steps taken to create the geodatabase



Reliance on GIS applications promotes the City of Fort Bragg's efforts to:

- Adhere to emergency preparedness standards & state housing requirements
 - Incorporate the use of new technologies
 - Increase efficiency & communications
 - Improve the overall quality of life

Given Fort Bragg's reliance on tourism, GIS helps in mapping attractions, accommodations, and transportation hubs, improving both visitor navigation experience and local business visibility.

GIS can be used for historic preservation, mitigating public health crisis, natural disaster preparedness, and severe weather response.

When used for infrastructure and urban planning, GIS supports utility management, zoning analysis, and infrastructure planning, helping city officials optimize resource allocation and service delivery.

Acknowledgements

Thank you to all our peers in Cohort 12 and to the faculty who supported us throughout this project – especially Hannah, Prof. Dan Richards, Dr. Steven Steinberg, Dr. Suzanne Perlitsh, and our client Chantell O' Neal – for their guidance and insight!

Sources

- City of Fort Bragg, CA Image YouTube <u>Article Page</u>
- Introduction Information City of Fort Bragg <u>City Manager's Office</u>
- Glass Beach Image Photo Credit: <u>Karim Haddad</u>
- Skunk Train Image Photo Credit: <u>Skunk Train Website</u>
- Noyo Harbor Image Photo Credit: Visit Fort Bragg Website <u>Noyo Harbor Tours</u>
- Jug Handle State Natural Reserve Image Photo Credit: Google Maps Image, Photographer: <u>Brendan Kiely</u>
- Cal State Long Beach Image Photo Credit: CSU Website <u>California State University Long Beach</u>
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- San Francisco Image Photo Credit: MSC Cruises Website <u>San Francisco Cruise</u>
- Mendocino County Image Photo Credit: Mendocino County California Travel Guide <u>Article</u>, Getty Images alantobey
- City of Fort Bragg Image Photo Credit: Nicholson House Blog Website Mendocino Travel Blog (Fort Bragg & North)

Questions?

