San Diego Regional GIS Council Meeting

1st Quarter

9:00am – 10:00 am

2/26/2026

Agenda

- Welcome and SDRGC News
- GeoNews
  - USGS Update by Cynthia Ritmiller
  - SANDAG Update by Andy Gordon
  - SanGIS Update by Brenda Maldonado & Louise Wedley
- GIS Manager Update by Abe Coughlin
- Presentation
  - One Platform, Many Users: Transforming Public Utilities Collaboration by Quentin Gregg and Andre Loerch
- Announcements
  - ADA Compliance
  - 2026 ESRI UC San Diego Region booth

Welcome
&
SDRGC News

Introducing the 2026 SDRGC Board Members

- ◈ Chair - Yuko Oliver, City of San Diego

- ◈ Vice-Chair - Phillip Mai, County of San Diego

- ◈ Secretary - Crystal English, San Diego State University

- ◈ Web Administrator - Matthew McSpadden, City of Poway

Special Thanks to our former board members!!!

GeoNews & GIS Manager Update

- USGS Update by Cynthia Ritmiller

- SANDAG Update by Andy Gordon

- SanGIS Update by Brenda Maldonado & Louise Wedley

- GIS Manager Update by Abe Coughlin

Presentation

One Platform, Many Users: Transforming Public Utilities Collaboration

Web Application: CompassGIS Viewer

By Quentin Gregg & Andrew Loerch

Announcements

- ◈ ADA Compliance Mandate
- ◈ 2026 ESRI UC San Diego Regional booth

ADA Compliance Mandate

◈ The Department of Justice (DOJ) adopted **WCAG 2.1 AA** as the technical standard for ADA Compliance in April 2024

◈ Applies to all public facing websites and web applications including dynamic GIS maps/apps (500+)

◈ **Deadline: April 24, 2026**

What's WCAG 2.1 AA?

- **WCAG = Web Content Accessibility Guidelines**
  - An international standard created by [the World Wide Web Consortium (W3C).](#)

- **Version: 2.1 = Guidelines released in 2018**
  - Mobile accessibility
  - Touch targets
  - Low vision support
  - Cognitive accessibility improvements
  - Other versions: 2.0 (released in 2008) & 2.2 (released in 2023)

- **Level: AA = Strong accessibility – Legal standard for government**
  - A = Basic accessibility - Minimum
  - AAA = Highest level – Very strict, not always practical

Preparing for ADA Compliance Mandate

◈ ESRI Instructor-led Accessibility Workshop (4 Sessions)

　◈ Understanding Disability and Accessibility

　◈ **Designed to work for all people**

　◈ Use of tools to find and fix accessibility issues

　　◈ Axe DevTools – Web Accessibility Testing

　　◈ Accessibility Insights for Web

　　◈ Screen Reader - NVDA

Disability Spectrum

A disability is any condition of the body or mind (**impairment**) that makes it more difficult for the person with the condition to do certain activities (**activity limitation**) and interact with the world around them (**accessibility barriers**).

| Vision | Hearing | Physical | Cognitive | Speech |

Disability	Permanent	Temporary	Situational
TOUCH	Single arm	Injury	New parent
SIGHT	Blind, low-vision	Cataract	Lack of light
HEARING	Deaf, hard of hearing	Ear infection	A loud room or venue
SPEECH	Non-verbal	Laryngitis	Dental pain
COGNITIVE	Dyslexia	Concussion	Distracted driver

Examples of Assistive Technology (A.T.) for Disabilities

Vision	Hearing	Physical	Cognitive	Speech
• Screen reader	• Captions	• Voice recognition	• Screen reader	• Text to voice (Augmentative & alternative communication [AAC])
• Magnification	• Hearing aid	• Joystick	• Magnification	
• Glasses	• Haptic feedback devices (ex: smartwatch)	• Eye tracking	• Typography settings	• Keyboard
• Audio books		• Switch device		

Four Principles of Accessibility (POUR)

◈ **Perceivable** - Information and user interface components must be presentable to users in ways they can perceive

   ◇ Users must be able to perceive the information being presented (it can't be invisible to all their senses)

◈ **Operable** - User interface components and navigation must be operable

   ◇ Users must be able to operate the interface (the interface cannot require interaction that a user cannot perform)

◈ **Understandable** - Information and the operation of user interface must be understandable

   ◇ Users must be able to understand the information as well as the operation of the user interface (the content or operation cannot be beyond their understanding)

◈ **Robust** - Content must be robust enough that it can be interpreted reliably by a wide variety of user agents, including assistive technologies

   ◇ Users must be able to access the content as technologies advance (as technologies and user agents evolve, the content should remain accessible)

Recommended Accessibility Testing Workflow

- ◈ Run automated Test (AxeDev Tool)
  - ◈ Scan the document Object Model (DOM) to detect code-based issues.
- ◈ Manual inspection
  - ◈ Use tab key to navigate through all elements
- ◈ Screen Reader assessment
  - ◈ Navigate the page and evaluate the accounted information
  - ◈ Check for intuitive structure/order
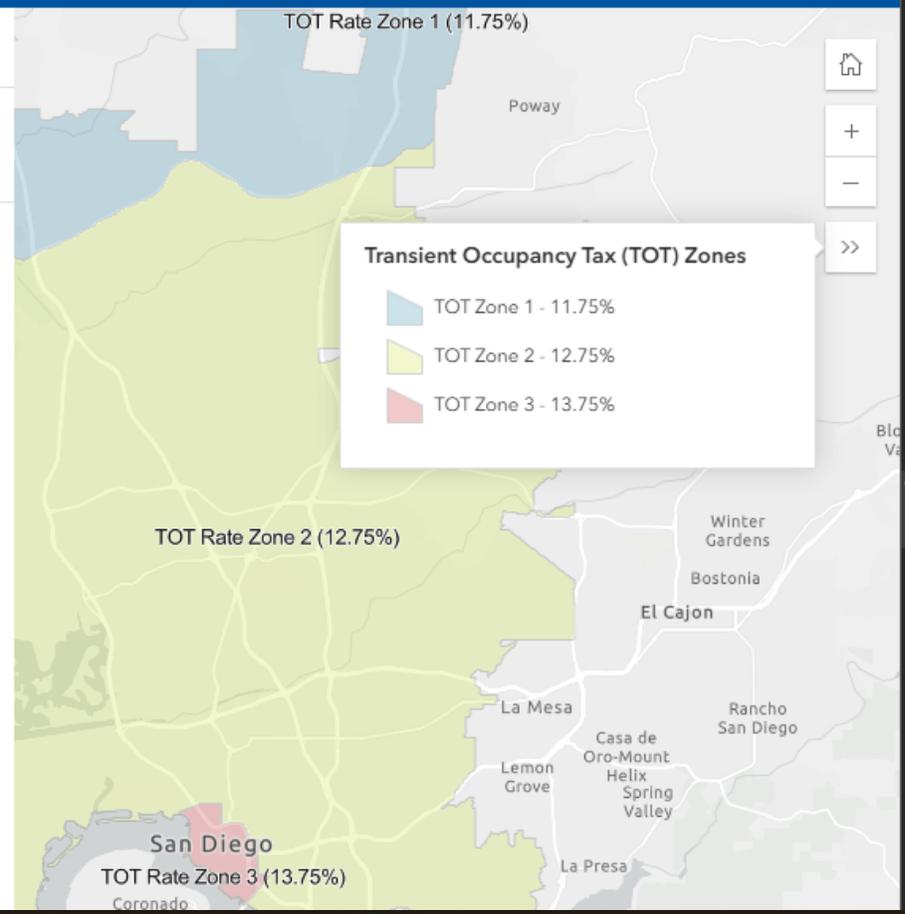
- ◈ Repeat above processes

TOT Rate Zone 1 (11.75%)

Poway

Transient Occupancy Tax (TOT) Zones

TOT Zone 1 - 11.75%

TOT Zone 2 - 12.75%

TOT Zone 3 - 13.75%

TOT Rate Zone 2 (12.75%)

Winter Gardens

Bostonia

El Cajon

La Mesa

Rancho San Diego

Casa de Oro-Mount Helix

Lemon Grove

Spring Valley

San Diego

TOT Rate Zone 3 (13.75%)

Coronado

La Presa

Elements   Console   Sources   Network   Performance   Memory   Application   Privacy an
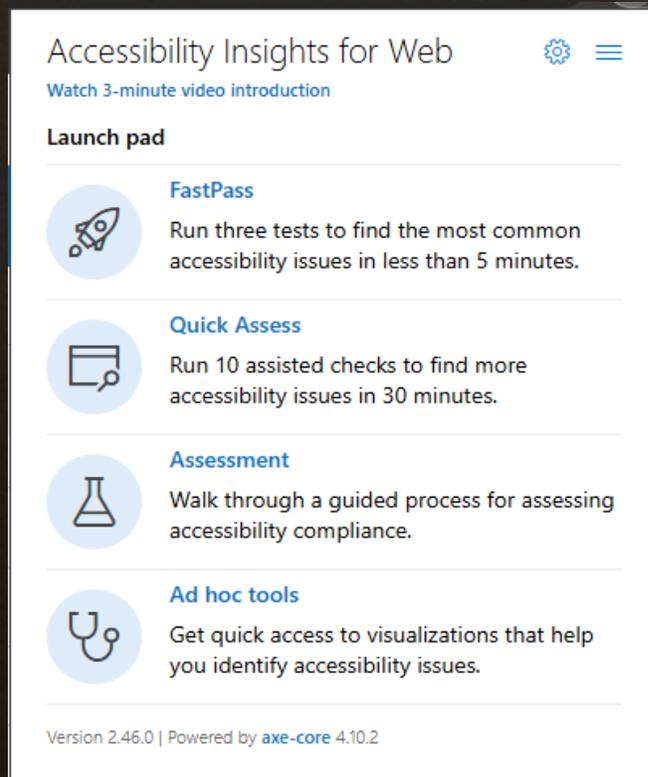
<div id="mapPanel" class="map panel">…</div>
<header class="header default-header light">
<instant-apps-header font-family="Avenir Next" logo-image="https://webmaps.sandiego.gov/portal/sharing/rest/content/items/4632559eadf2470da40971659b6d5ffd/data?token=fxcosd5u8erXj2WJOizPoQDGV8J4nsmRXgSxLQ4a-8PfVUrHaaUk1kF6kzvUxSd3mojMuPGN1xcf4DMNb_P8QNbTVBWrLhZISjk9Rrv_h7KW1kHSzM6REnwWnxwZU-FIs_gi3tR7FmZ_jiW1NOLj-4ob-j1wnoHgT5qy3SFAt19Z50CCmFzRSi5C5GnncPRZAG-poe-1nO9b37o_GJQy3TuFwTELJBk240PJ4I1s8zs." logo-scale="s" logo-link="https://www.sandiego.gov/" logo-image-alt-text background-color="#00549f" custom-header-css=".top-nav-title{font-size:17px}" text-color="#ffffff" scale="m" title-text="City of San Diego Transient Occupancy Tax (TOT) Zone Lookup Tool" title-text-link="https://www.sandiego.gov/treasurer/taxesfees/tot" theme="light" class="hydrated">
#shadow-root (open)
  #adopted-style-sheet
  <header class="instant-apps-header--standard instant-apps-header__logo-height--s" style="background-color: rgb(0, 84, 159); font-family: "Avenir Next";"> flex
    <div class="instant-apps-header__header-container"> flex
       flex
         flex
          <img class="instant-apps-header__logo-scale--s" src="https://webmaps.sandiego.gov/portal/sharing/rest/content/items/463…gy35FAt19Z50CCmFzRSi5C5GnncPRZAG-poe-1nO9b37o_GJQy3TuFwTELJBk240PJ4I1s8zs." alt> == $0

        … flex

      <div class="instant-apps-header__actions-end-container">…</div> flex
    </div>
  </header>
  <div slot="actions-end" class="info-button">…</div> flex slot
</instant-apps-header>
</header>
</div>
<div id="offscreenResults" aria-hidden="true"></div>
<div class="calcite-mode-light" theme="light" id="printPage">…</div>

"City Logo" is acceptable, but "The City of San Diego logo" would be more descriptive

Recommended Accessibility Workflow

◈ Perform Manual Checks (Accessibility Insights for Web)

◈ Keyboard Navigation checks – Quick Assess (turn on the visual helper)

Zoning and Parcel Information Portal (ZAPP)

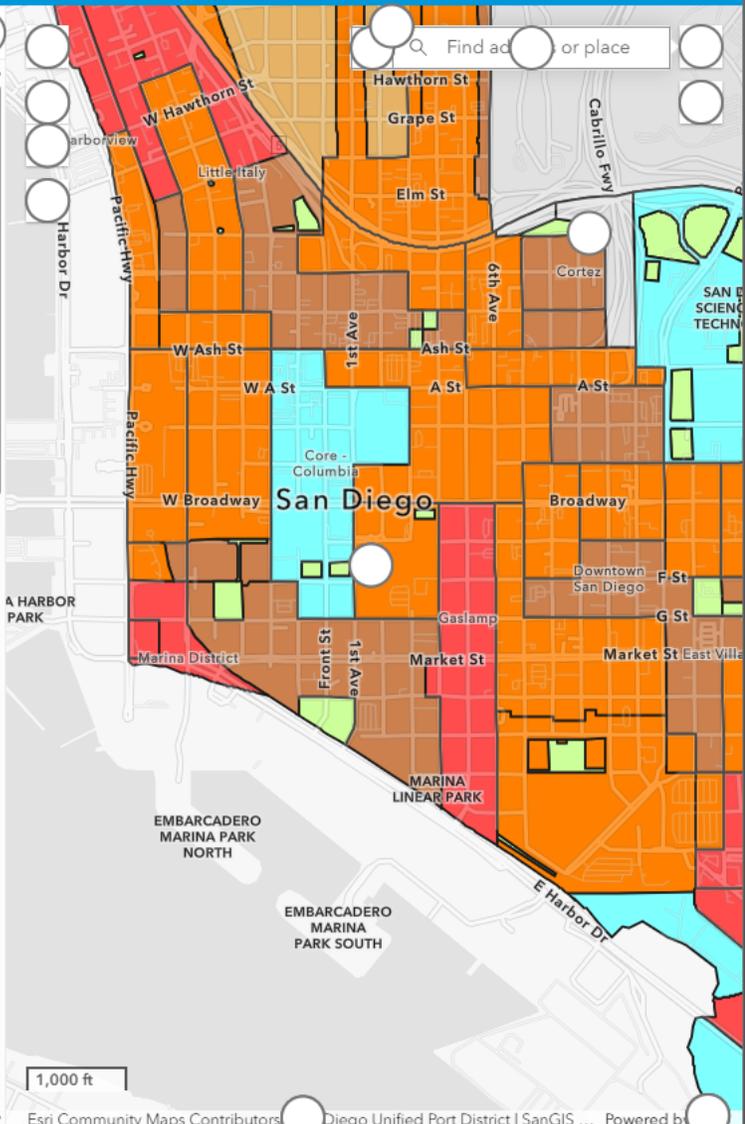- Legend
- Basemap Gallery
- Details
- Layers
- Info

Details

User Guide

Click HERE to view FEMA Flood Map Service Center

Search by Address

- Select "Address Locator" from the pull-down menu. The pull-down menu is at the upper right-hand corner of the map.
- Type the address within the search bar. Use "N", "S", "E", "W" for address prefixes.
- **Search results will load automatically.** A dot will appear on or near the parcel.
- Click on the parcel for search results. The parcel will be highlighted with a teal color.

Search by APN

Find address or place

1,000 ft

Esri Community Maps Contributors | Diego Unified Port District | SanGIS ... | Powered by

Hawthorn St
W Hawthorn St
Grape St
Little Italy
Elm St
Cortez
W Ash St
Ash St
W A St
A St
A St
Core - Columbia
W Broadway
San Diego
Broadway
Downtown San Diego
F St
G St
Market St
Market St East Villa
Gaslamp
Marina District
MARINA LINEAR PARK
EMBARCADERO MARINA PARK NORTH
EMBARCADERO MARINA PARK SOUTH
E Harbor Dr
HARBOR PARK
Harbor Dr
Pacific Hwy
Cabrillo Fwy
6th Ave
1st Ave
Front St
SAN DIEGO SCIENCE TECHNO

Coll

Accessibility Insights for Web

Quick Assess

Target page: Sidebar

- **Overview** — 0% Completed
- (1) Automated checks
- (2) **Keyboard navigation**
- (3) Link purpose
- (4) Image function
- (5) Focus order
- (6) UI components
- (7) No missing headings
- (8) Heading level
- (9) Bypass blocks
- (10) Instructions
- (11) Reflow

Keyboard navigation

Users must be able to *navigate* to all interactive interface components using a keyboard.

Visual helper ⬤ On

∨ How to test

The visual helper for this requirement records elements in the target page that receive the input focus.

1. Use the keyboard to navigate through all the interactive interface components in the target page.
   a. Use **Tab** and **Shift+Tab** to navigate between widgets both forwards and backwards.
   b. Use the arrow keys to navigate between the focusable elements within a composite widget.
2. If a "keyboard trap" prevents the focus from leaving a widget:
   a. Use your mouse to move the focus to the next widget.
   b. Resume testing.
3. If you encounter any trigger component that reveals hidden content:
   a. Activate the trigger.
   b. Navigate through the revealed content.
   c. Close the revealed content.
   d. Resume navigating the page.
4. Verify that you can navigate to all interactive components using the keyboard.
5. Record your results:
   a. If you find any failures, select **Fail**, then add them as failure instances.
   b. Otherwise, select **Pass**.

◯ Pass ◯ Fail

Why it matters

Users must be able to navigate to all interactive interface components using a keyboard. Users can't access a web app's functionality if they can't access its interactive interface components. Many people, including those who are blind or who have low vision or hand tremors, rely on a keyboard (or keyboard alternate) to access those components.

Recommended Accessibility Workflow

◈ Conduct quick screen reader review

  ◈ Manually verifying that a screen reader reads everything correctly and in a logical order

◈ TheDOITCenter: Using a Screen Reader

◈ https://www.youtube.com/watch?v=7Rs3YpsnfoI

◈ UCSF Documents & Media Photography: Screen Reader Demo for Digital Accessibility

◈ https://www.youtube.com/watch?v=dEbl5jvLKGQ

Next Step

◈ Ongoing Effort

  ◈ Prioritize public-facing web apps by usage

  ◈ Perform Accessibility Testing Workflow and repeat the processes

◈ New web maps/apps

  ◈ Design new web applications to be accessible from the start

Resources: ESRI Learning

◈ Learning Plan: [Digital Accessibility Fundamentals](#)

   ◇ Introduction to Digital Accessibility in GIS

   ◇ Designing GIS Applications with Accessibility

   ◇ Applying Accessibility in ArcGIS App Builders

◈ Esri Accessibility articles and blogs

   ◇ [Accessibility Resources](#)

     ◇ [Enhance web app accessibility with Instant Apps](#)

     ◇ [Build Accessibility into your Web Maps with ArcGIS Maps SDK for JavaScript](#)

     ◇ [Mapping with Accessibility: 8 key hacks to map with confidence](#)

Resources

- Deque - Accessibility Compliance
- W3 Accessibly Tutorial
- ARIA Authoring Practices Guide

- **Alt text writing**
- https://accessibility.huit.harvard.edu/describe-content-images
- https://webaim.org/techniques/alttext/

- Mobile screen readers
- Android - getting started with TalkBack
- Apple - Introduction to VoiceOver

Resources – Learning to Use NVDA

◈ Windows Desktop:

1. Read this article: <u>Using NVDA to Evaluate Web Accessibility</u>

2. Write down each of the hotkeys listed or print the page for quick reference and practice them. (Quick Reference: <u>NVDA shortcuts</u>) *You will want to be able to reference this info separately from the screen

◈ Mac Desktop:

1. Read this article: <u>Using VoiceOver to Evaluate Web Accessibility</u>

2. Write down each of the hotkeys listed or print the page for quick reference and practice them.

◈ Practice:

1. With the screen reader on, follow the guide/instructions in the NVDA/VoiceOver links above

2. Downloads:

    1. NVDA: <u>Download NVDA</u> and install on computer

    2. VoiceOver: Already installed on Mac computers

ESRI UC 2026

- July 13 – 17, 2026
- San Diego Regional Booth at Map Gallery
  - Awaiting for final approval from ESRI

Thank you very much for Abe Coughlin

ESRI UC 2026

◈ Call For Maps

◈ https://www.esri.com/en-us/about/events/uc/get-involved/call-for-maps

◈ Call for Images

◈ https://www.esri.com/en-us/about/events/uc/get-involved/call-for-images

◈ Deadline: May 29, 2026

Questions?

Thank you!