

Build an Equity Strategy with GIS: Lessons learned from lighthouse accounts

Sophia Garcia

Industry Specialist, Equity and Civic Nonprofits Thursday, February 20th

California Racial Equity Commission Data Committee

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ESTI Mission SERVING OUR USERS

Advancing GIS & The Science of Where

Supporting Spatial Literacy, Education & Conservation

Engineering and Science Focused

Strong and Growing . . Working Together to Make the World a Better Place

Esri by the Numbers

90

FORTUNE 100 COMPANIES

3K

PARTNERS

11K NONPROFITS

860 UTILITIES 33K

BUSINESSES

10M

ARCGIS USERS

NATIONAL GOVERNMENT AGENCIES

1200

12K STATES & REGIONAL AGENCIES

160

12K

30K

CITIES & LOCAL GOVERNMENT

HUNDREDS of THOUSANDS ORGANIZATIONS

COLLEUNIVE RSITIESGES &

Understanding GIS

A way of thinking by focusing on geography first



Return on Investment

- Save Time
- Save Money
- Avoid Costs
- Increase Accuracy
- Improve Productivity
- Generate Revenue
- Increase Efficiency
- Automate Workflows
- Manage Resources
- Aid in Budgeting

Software, SaaS and PaaS



Esri

Equity and Civic Nonprofit Lead



Equity and Social Justice SIG, Esri UC 2019

NLC Real Committee, 2024







NLC City Summit Atlanta, 2023







Science of Where Podcast with LA Equity Officer, 2024

Gesti Padam

Creating Social Equity: Technology, Data, and Justice (esri.com)



Unidos US Headquarters in DC

2024

Equity Across Industry

PUBLIC SAFETY Recidivism, Transparent Policing, Response Time

ENERGY EQUITY Power Outage Restoration Plans, Pollution, Investment in Clean Energy



TRANSPORTATION EQUITY

Access to Transit, Transportation Cost, Justice40 Initiative

EDUCATION

Development,

Digital Equity

Workforce





HEALTH EQUITY

Access to Health Care, Food Security, Park Accessibility, Social Determinants of Health, Digital Equity

ENVIRONMENTAL JUSTICE

Conservation, Land Management, Safe Water, Pollution

Four Technology Tenets

Initiate Your Equity Strategy

STEP 1: Understand Your Community Start With a Data-driven Understanding

Chief Equity Officer and GIS Manager relationship STEP 2: Build A Location Strategy Use Location to Attain Equitable

Use Location to Attain Equitable Budgeting and Planning



Equity embedded in jurisdiction wide strategic plans STEP 3: Operationalize Your Work Empower Staff With Tools and Analysis



Engage the community

Equity Strategic Plans in Action

Understand Your Community

ArcGIS StoryMaps



Esri Maps for Public Policy

ArcGIS Living Atlas



ArcGIS **Business Analyst**

Use a Location Strategy



ArcGIS **Spatial Analyst**





ArcGIS Online

Operationalize Your Work



Composite Index Tool



Social Equity Analysis Solution

Measure Impact



Police Transparency Solution



ArcGIS Field Maps









ArcGIS Hub

Equity Strategic Plans in Action

Lighthouse examples

LA County Anti-Racism Diversity & Inclusion



The State of Black Los Angeles County report provides the social and historical context that explains why racial disparities exist. The report's maps allow county officials to see the number and location of neighborhoods where disparities exist.

City Of Tucson, Arizona EQUITY DATA STRATEGY



A centralized repository of Decennial Census data, ACS data, and Esri's annual estimates processed for Tucson's unique geographic boundaries. The Hub will streamline access to census data by including the most frequently used variables pre-apportioned to the geographic boundaries most useful for research and analysis conducted by City of Tucson staff and community.

City of Tacoma, Washington



The Tacoma Equity Index measures entrenched economic problems, housing needs, and social justice issues. The tool examines five categories of inequity that include livability, education, environmental health, economic opportunity, and accessibility. These topics were analyzed with GIS technology to show patterns and represent inequities on a map.

LA County

LA County Equity Officer and GIS Partnership

"We have to get really smart with how we both target our efforts and target our outreach but also how we use our resources to improve peoples lives. It is not just about preventing negative life outcomes but this is about enabling people to live their best lives." D'Artagnan Scorza

 ARDI Department participates in the Planning and Data Working Group



Harnassing the Power of Data

- Establish a baseline to monitor trends on strategic goals
- Share information on funding and other resources
- Evaluate effectiveness of programs
- Identify areas of county with highest need
- Track improvements over time

CEO.

Recovering Better Than Before: Ensuring Equitable Implementation of the American Rescue Plan

On July 13, 2021, the Board of Supervisors (Board) adopted a motion to strategically use ARPA funds to the maximum benefit of the communities suffering disproportionate health and economic im <u>from t</u>he COVID-19 panc



Equitable Implementation of the American CEO. **Rescue Plan Act in LA County**

Social Safety Net



LA County Publicly Accessible Data Tools

CEO.

- ARP Project Dashboard
- American Rescue Plan Act Project Map
- Equity Explorer Map Tool
- Covid 19 Vulnerability and Recovery Index Dashboard

Supports equitable funding decisions, transparency, and accountability.

Publicly Accessible Data Tools







Engaging Community in LA County

- State of Black LA report listening sessions
- Grant opportunity for "Mapping Resources for Justice Involved Organizations"
- Coordinating with departments on their community engagement

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2021-2022 State of Black Los Angeles County

Official Report by Los Angeles County Anti-Racism, Diversity, and Inclusion (ARDI) Initiative







City of Tucson

City of Tucson Equity Officer and GIS Partnership

"Equity is a complex field,' Walker said. 'Laura has been able to use GIS to articulate data in a way that is very powerful to our policymakers and the community'. Walker stressed that although demographic data is complex, visualizing it on a map lets people clearly identify burdened populations." Data has power. Harnessing that power is key to unlocking equity.



Laurice Walker Chief Equity Officer Laurice.Walker@TucsonAZ.Gov

Laura Sharp Equity Data Manager Laurice.Sharp@TucsonAZ.Gov



ty and Social Justice June 18, 2024

e Approach to Achieving h Data Visualization





Tucson Index | Simple Overlay







Engaging Community in Tucson

Community Input

Two surveys

- 1. What **variables** go into the index
- 2. Weights–What is the relevant importance of each variable?
- Goals
 - Let community help define who is vulnerable and most in need
 - Get community **buy-in**
- Method
 - Analytic Hierarchy Process



Key Components of the Collection Standards

Standardized Questions & Answers

- Standardized questions help ensure uniformity in data collection across projects, departments, and time periods.
- Clear Definitions
 - Clear definitions of each category or attribute to ensure consistent interpretation and reporting of demographic data.

Informed Consent, Privacy, Sharing, & Data Storage Expectations

 Information on why we collect data, how it will be stored, who has access, and how it will be shared publicly

Which of the following describes your racial or ethnic identity? Please select ALL identities that apply.*

The scala and ethnic classifications utilized by the City of Tucson conform to the social interpretation of race acknowledged within the United States rather than attempting to define race on biological, anthropological, or genetic grounds. Additionally, these categories for racial identification encompass both sociocultural and national origin groups. > Details

▶ Details
American Indian or Alaska Native
Asian
Black or African American
Latina/o/x, Hispanic, or Spanish origin
Middle Eastern/North African
Native Hawaiian or Pacific Islander
White
Prefer not to say

Community Input in Equity Index

Community Engagement Surveys templates for departments

City of Tacoma

City of Tacoma Equity and GIS Partnership

- The City of Tacoma's Office of Human Rights worked with the Kirwan Institute out of Ohio State University to develop an opportunity index.
- Created Tacoma Index



Embed equity in Strategic Plans

- The City of Tacoma is actively integrating the Equity Index as a tool in other daily operations and programs including
 - City Council decisions
 - City budget proposals
 - Department Racial Equity Action Plans



Data Online and available to other departments

- The index has five categories and 32 different indicators.
- Utilizing the Equity Index as a tool for City departments
 - The Tacoma Fire Department overlaid cardiac arrest data with Equity Index data
 - Now the department uses the Equity Index to select locations for future CPR trainings



Engage Community

- Increasing Access to life saving CPR
- Equitable Distribution of Grants
- Equitable Infrastructure Investments
- Prioritizing Neighborhoods for Planning and Investment
- Tacoma Index Case Studies



With this focus on equity, there was a 333% increase in dollars awarded to Black-owned businesses in 2021. More than \$3.385 million in grants up to \$15,000 were awarded, 56% of which went to BIPOC-owned businesses.





Inaugural Equity Map Booklet

- 58 GIS Projects across 13 industries
- Featuring nonprofits, SLG and Esri partners
- Highlights Equity Strategic Plan Steps



EQUITY AND SOCIAL JUSTICE

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Get Active: Esri Equity Resources



Build Your Strategic Equity Plan with GIS

Advance equity and social justice in your community



Watch the Recordings

Build Your Strategic Equity Plan with GIS Webinar Series

Build Your Strategic Equity Plan with GIS (esri.com)



Mapping Equity Across Industries

Advance equity and social justice in your community Change happens when you have a location



Visit

Esri's Equity and Social Justice Website

Signup for Equity Newsletter, Join LinkedIn Group, Download Equity Strategy Brochure

Equity & Social Justice | Mapping Equity Across Industries with GIS (esri.com)



EQUITY AND SOCIAL JUSTICE MAP BOOKLET





Download

Inaugural Esri's Equity and Social Justice Map Booklet

Featuring Customer Examples across 13 GIS Industries



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