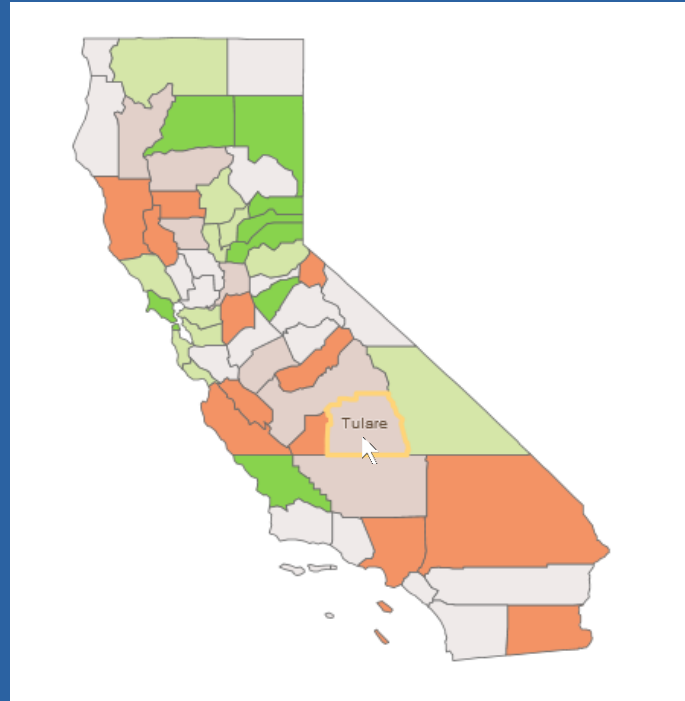


HealthyCity.org

Information + Action for Social Change



Rob Graham
GIS/Web Programmer
Advancement project



To do:

Intro to AP

HealthyCity.org – Past and Present

The Path Forward, What's Relevant?

Technical Foundations

Tech Stack & Decision Points

Philosophical Foundations

Issue Framing – Access to Health Care

Intro to Advancement Project



“Next generation, multiracial civil rights organization. We champion the struggle for greater equity and opportunity for all.”

Equity | Audacity | Capacity Building | Collaboration | Integrity | Innovation

HealthyCity.org

Goal:

Transform how decisions are made by creating innovative tools and methods that expose and resolve structural inequalities.

People's ability to make healthy choices should not be determined by their race, socio-economic status, or neighborhood.



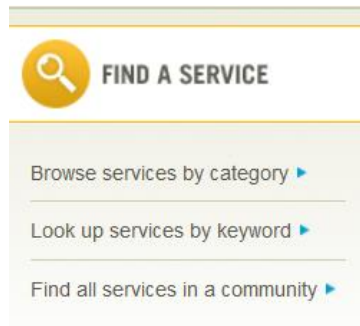
HC.org History & Context



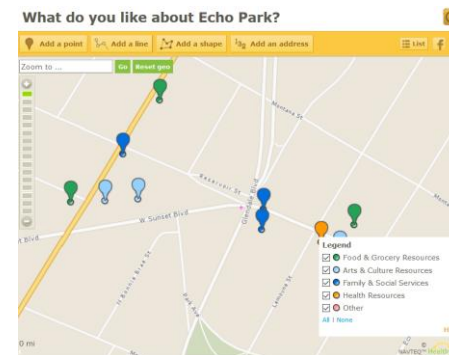
- Inception in 2003
- Initial Partners = 211 LA, CNM, UCLA, United Way
- Connect people to services and inject data to policy making
- ~16k users, ~40k annual visitors
- FOSS4G stack – PostGIS, MapServer, OL
- Version 6 in development

Current Components

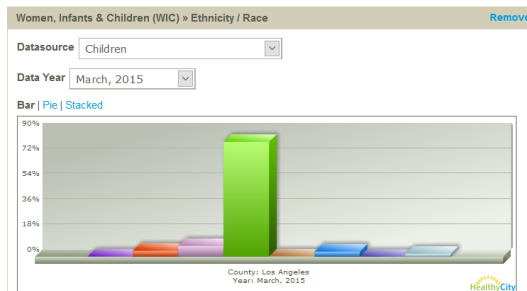
Service Referrals



WikiMaps



Maps & Data



Group Pages

Santa Cruz County Community Data Mapping Project



A Different World

Since 2003...

- Data way more available
- Governments/agencies maintain referral lists
- Evolution of Web and GIS technology

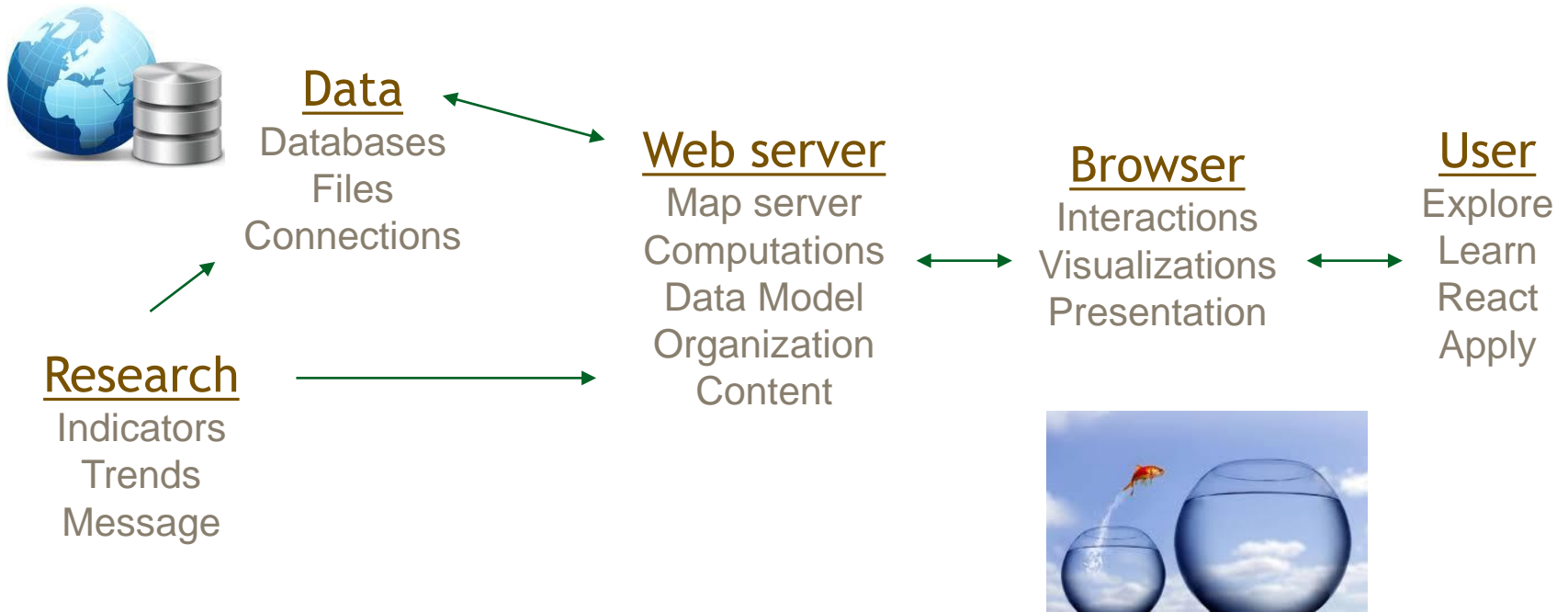


Staying Relevant

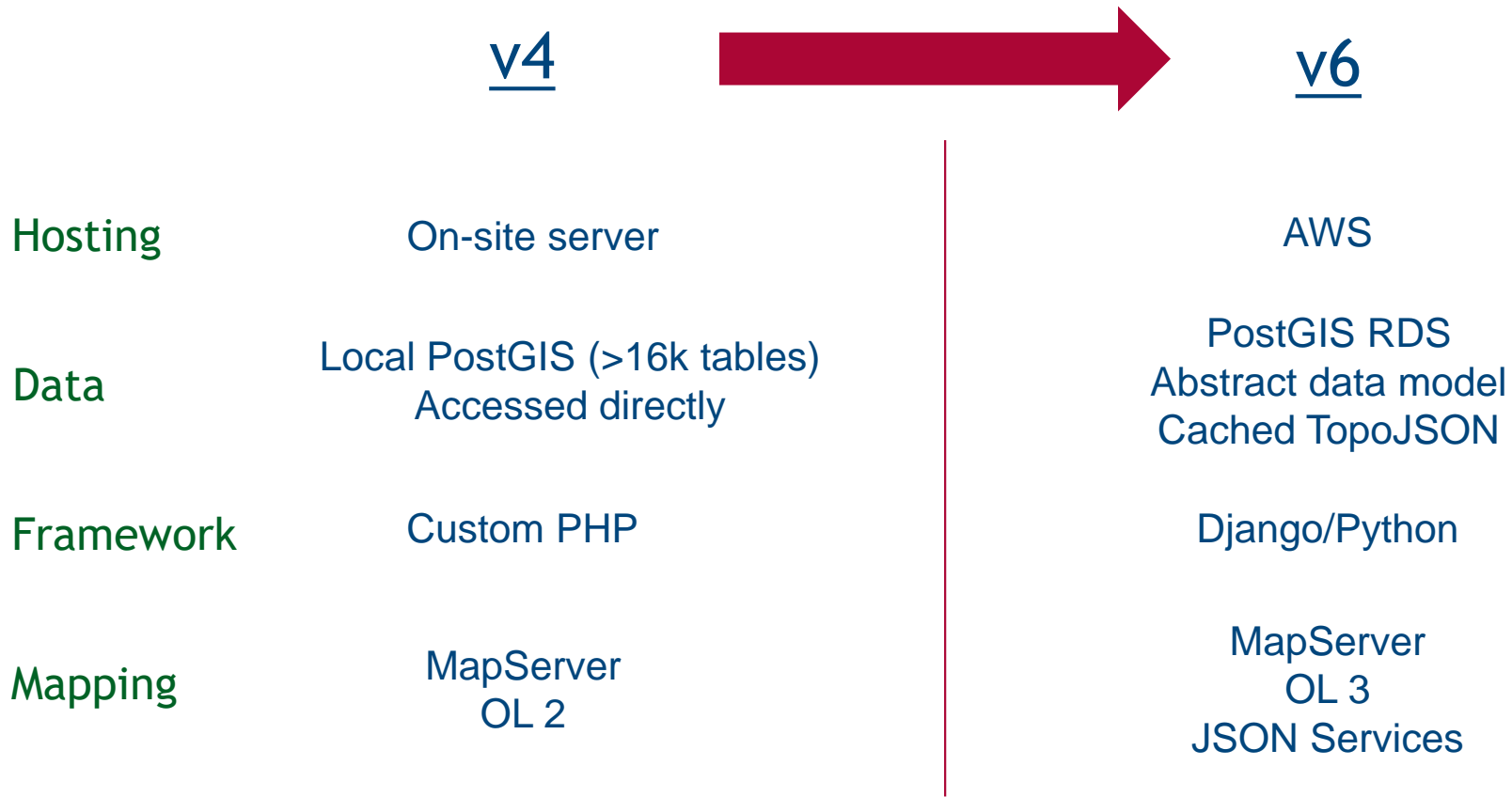
- ✗ Services – Online service referrals by statewide 211
- ✗ Data warehousing – Multiple free data portals exist
- ✓ WikiMaps
- ✓ Tools for policy change
- ✓ Framing equity issues
- ✓ Data curation



Technical Foundations

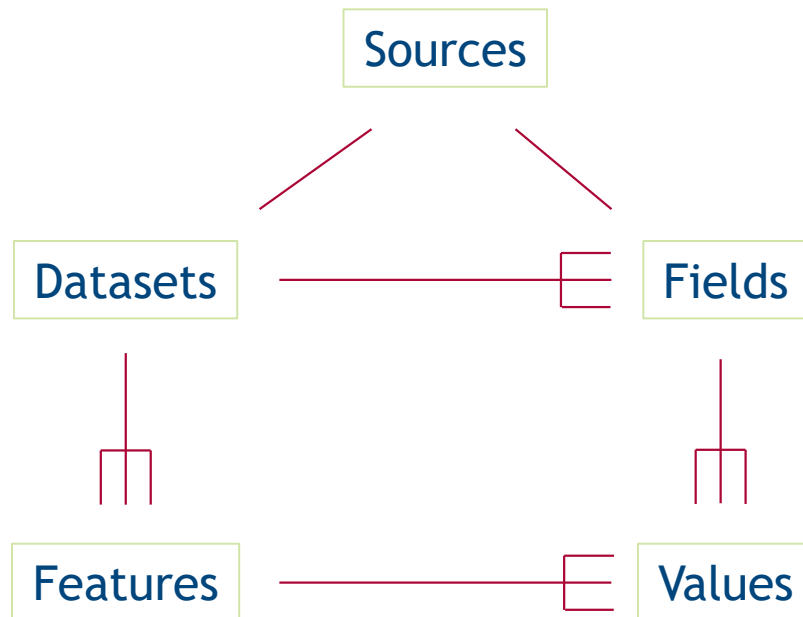


Evolution of the Stack



Flexible Data Model

- Goal is to store lots of different data, including user-created, in a consistent and efficient way



Implementation Values

- Open
 - ▣ Open source technology
 - ▣ Encourage collaboration and data sharing
- Useful
 - ▣ Answer questions or complete a task
 - ▣ Provide takeaways
- Engaging
 - ▣ Does something fun and new
 - ▣ Provides critical info or service



- Flexible
 - ▣ Maximum abstraction
 - ▣ Extendable frameworks
- Lasting
 - ▣ Solid technical foundation
 - ▣ Established + emerging software and protocols

Intro to Framed Pages

“Issue specific web page built on the HealthyCity.org platform that shares the Health Equity perspective and provides tools for research and advocacy.”

Topics:

Access to Health Care

Transportation Equity

... + one more



- Both a component of the new HC.org and a space to prototype new features
- Opportunity for immediate impact while larger site is still in development

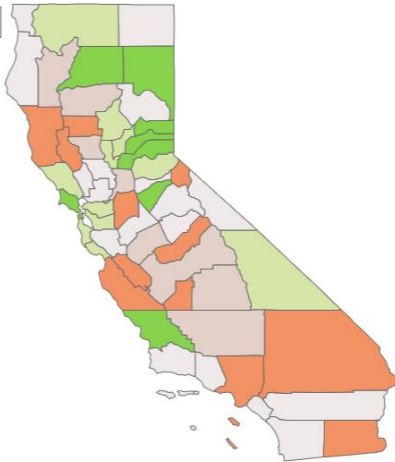
Access to Health Care - (Demo)

<http://advancementprojectca.org/accesstocare/>

Access to Health Care in California

Access to Health Coverage

Access to Clinics



Access to Health Coverage Need Index

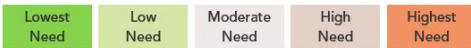
Urban Semi-Urban Non-Urban



Access to Coverage Index Score



County Name	Access to Coverage Index Score	Remaining Uninsured Population	Undocumented Immigrants (%)	Communities of Color (%)	Mothers with Late or No Prenatal Care (%)	Parole and Probation Rates per 1,000 adults	Population with income below 150% of poverty line (%)	Clinics per 10k Population
Los Angeles	100	2,064,660	9.3	72.07	3.04	9.67	28.94	0.26
San Bernardino	89	377,512	7.5	68.04	3.43	16.74	29.23	0.05
Sacramento	65	214,090	4.6	52.28	3.56	26.58	26.69	0.17
Riverside	61	431,410	7	61.46	3.03	9.89	26.84	0.15
Santa Clara	50	204,201	10.2	65	2.65	9.82	16.08	0.24
Orange	40	506,359	9.6	56.72	1.75	6.59	20.11	0.1
San Diego	36	490,023	6.6	52.27	3.22	6.98	22.84	0.37
Alameda	34	197,119	8.4	65.56	1.82	12.9	19.88	0.54
Contra Costa	28	130,734	7.7	53	3.17	5.51	16.88	0.29
San Francisco	0	88,387	3.7	57.55	1.89	9.27	21.46	0.76



Access to Health Care

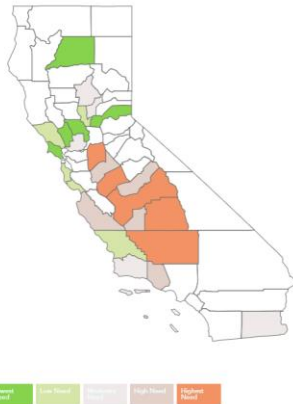
Make Your Own Index

Urban **Semi-Urban** Non-Urban

off on

- Clincs per 10k Population (%)
- Communities of Color (%)
- Delayed or Did Not Get Care (%)
- Emergency Department Visits per 1,000 Persons
- Language Other than English
- Mothers with Late or No Prenatal Care (%)
- Parole and Probation Rate per 1,000 adults
- Patients Served by Primary Care Clinics per 1,000 Persons
- Population with income below 150% of poverty line (%)
- Preventable Hospitalizations per 1,000 Adults
- Remaining Uninsured Population
- Undocumented Immigrants (%)

[Learn more about indexing](#)



County Name	Index Score
Kern	100
Fresno	86
Tulare	83
Merced	78
San Joaquin	77
Monterey	69
Stanislaus	66
Madera	65
Kings	64
Ventura	63
Yuba	60
Imperial	60
Butte	55
Santa Barbara	52
Solano	48

A Closer Look

Remaining Uninsured Population

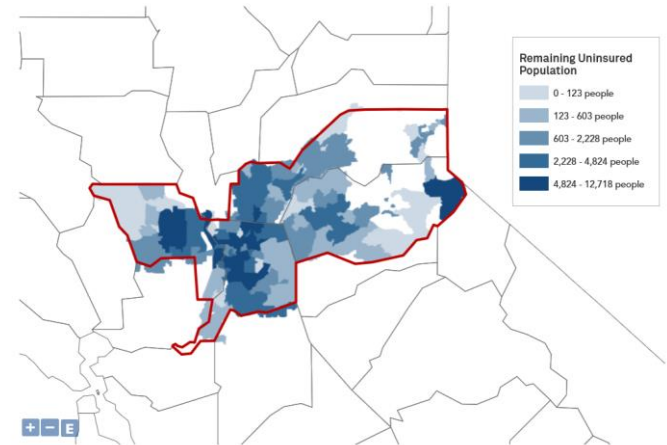
by

CA ZIP Codes

within

CA Regions

Sacramento Area



Source:
US Census ACS 5yr, 2010-2014

Questions of the Page:

- Which Counties have the highest need for health coverage? for primary care clinics?
- Which Counties have the most undocumented immigrants?
- How many uninsured live in my ZIP code?
- Does the parole/probation rate affect access to prenatal care for communities of color?

Handy Libraries

- DataTables.js – great for custom interactive tables with server-side source
- Geostats.js – great for client-side data analysis, particularly break points (quintiles, equal interval, Jenks)
- Pandas – Python-based server-side stats analysis
- Mapscript for programming MapServer (Python/PHP bindings)



Thanks! / Questions

Contact: Rob Graham
rgraham@advanceproj.org