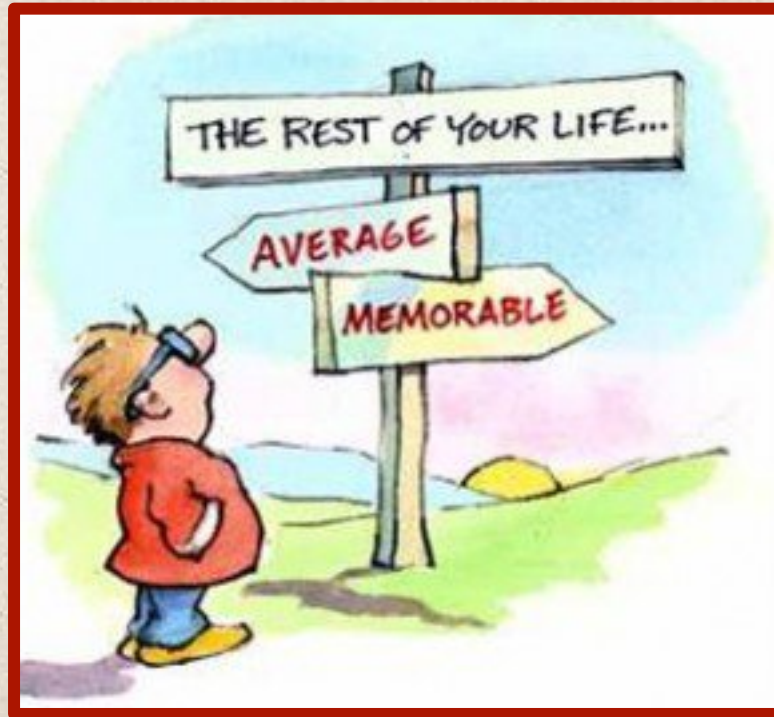


HRSA Practicum



Estrella Evangelista, DNP, MEd, RN, CNL
Candidate, Certificate in Applied Health Informatics
School of Nursing, Johns Hopkins University
May, 2013

Mentor, Source of Inspiration & Friend

**Ahmed Calvo, M.D., M.P.H.,
FAAFP**

**Chief of the U.S. Department of Health
and Human Services, Health Resources
and Services Administration (HRSA):**

Division of Clinical Quality

Bureau of Primary Health Care,

Clinical Quality Improvement Branch

**Office Health Information Technology &
Quality**

**Chief Medical Officer for the HRSA Health
Disparities Collaboratives.**



Practicum Objectives

- 1. Analyze the activities and functions of HIT roles within the agency/business in relation to identified informatics competencies.**
- 3. Analyze current and proposed HIT research activity within the organization using critical thinking skills.**
- 4. Relate the structure and function of the information technology service/department to the organizational structure of the agency/corporation.**
- 7. Evaluate the philosophy, strategic plan, policies and procedures of the organization, in relation to information technology within the agency/corporation.**
- 11. Propose a focused study/project for quality improvement or process redesign support by HIT.**
- 16. Evaluate the impact of an information system on the documentation or delivery of patient care.**

Question to run on:

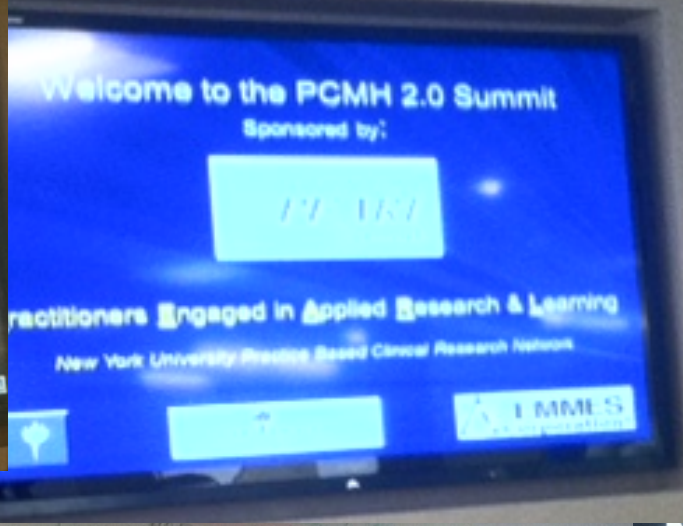
What is the overarching theme of the presentation?

Sample Practicum Activities:





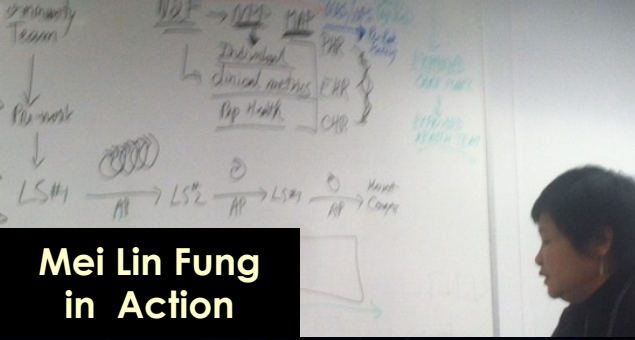
Tech Presentation



Primary Care Teaching Centers



OHITQ Meeting with Dr. Wakefield



Mei Lin Fung in Action

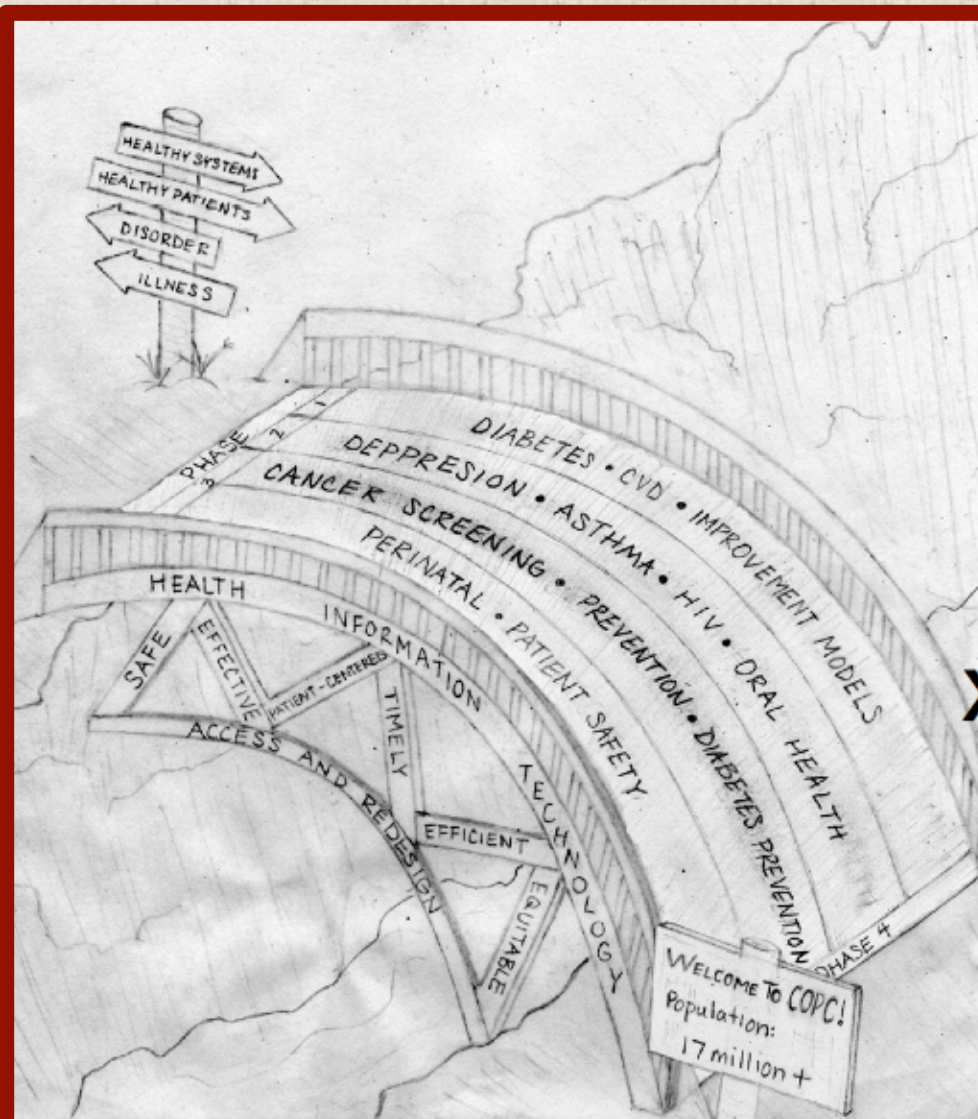


Health Disparities Webinar

Col. Bat Masterson in Va. Natl. Defense Futures



Technology in Public Health

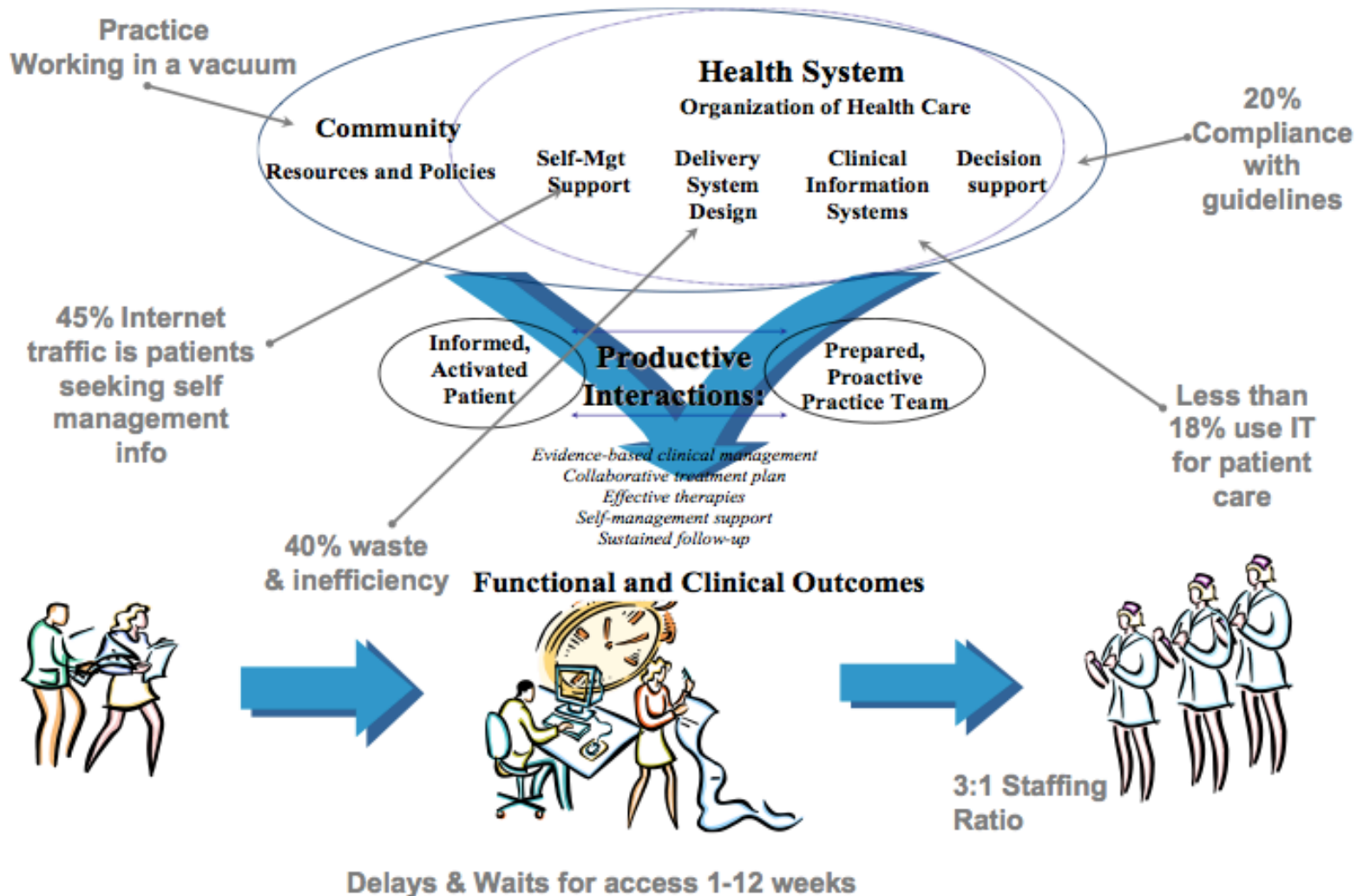


“Building the Bridges
To Cross the
Quality Chasm”

Depiction of what the
HRSA
Health Disparities
Collaboratives
have been doing
from the point of view
of the National Faculty

Feb 28, 2007 Paper

The Prevalent System of Care Delivery



The Expanded Care Model

Prepared Proactive Community is critical - and may need COPC to reduce health disparities

Public Health Practice is critical and not just Office Practice

A wider sense of self-mngmnt activities deserve careful research & consideration

Prepared Proactive Organization is just as critical

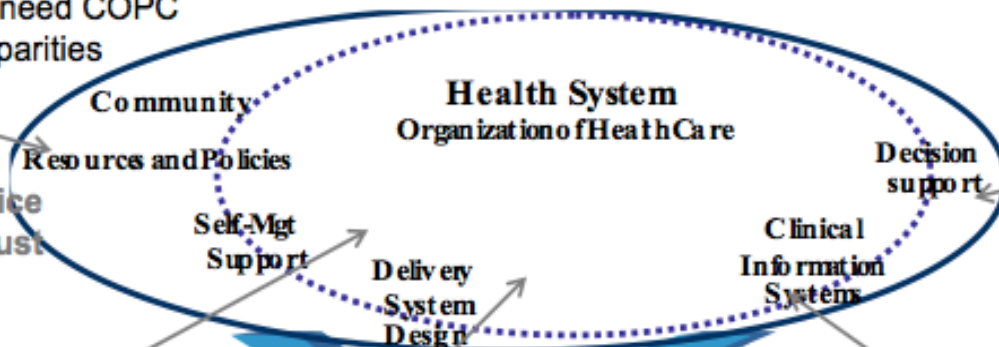
Functional and Clinical Outcomes

Decision support has to involve more than just the Org

Community surrounds practice

Registries, EHR, PMS, CDMPs, & HIEs are critical

Workforce & Staffing is also Critical



EBMgmt and Not Just EBM: Respect for Patient's time

Ahmed Calvo



Communities of Practice are critical



Workforce & Staffing is also Critical

Strategic Objectives

To explore, examine & evaluate the HRSA Data Warehouse:

a. As an IT expert, to operationally mine relevant data to support Project Gotham's "Mapping the Health Neighborhood."

b. As a nurse, to participate in collaboratives that will innovate evidence based strategies to address the nation's identified health needs.

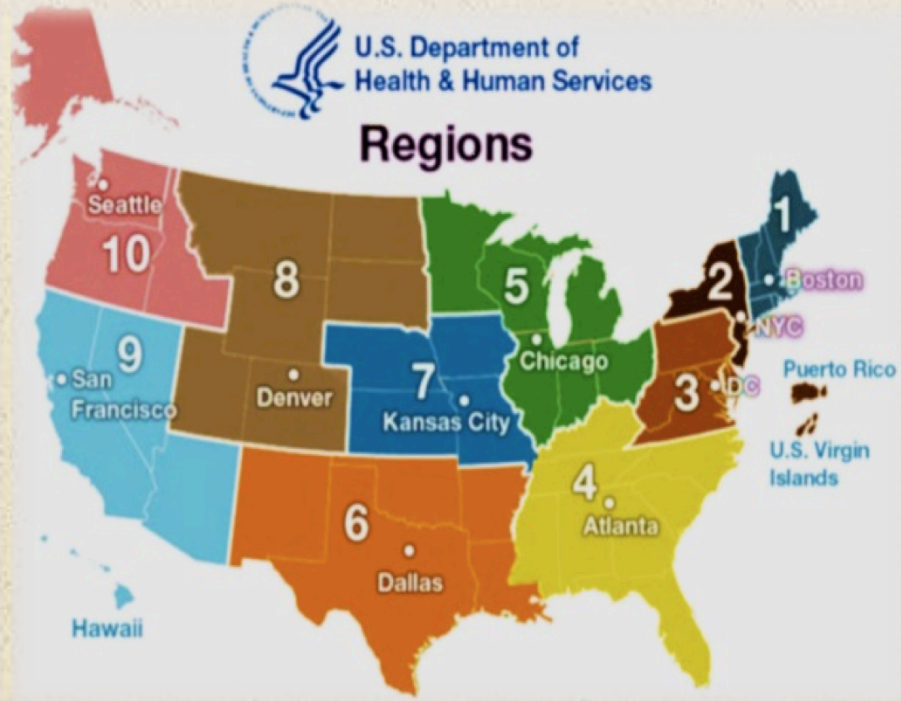
c. As a researcher & educator, disseminate effective processes & outcomes as evidence to support clinical practice

d. As an informed citizen, to keep abreast with information that will affect my health, the health of my family, community & the nation as a whole.

Disclaimer

- ❁ This presentation reflects the author's personal opinion regarding the HRSA Data Warehouse & cannot be construed as the official position of the U.S. Government, HHS or HRSA.
- ❁ This presentation's content (data, maps, graphs, tables and charts) presents a true & accurate version of what is publicly available. It does not include any HRSA Data Warehouse content & application changes & updates made after March 30, 2013.

HRSA DATA WAREHOUSE



**Knowing your
community
Knowing your
Nation**

Tactical Objectives

Participants will be aware that one can:

- ✿ **Navigate through the HRSA Data Warehouse databases and site contents**
- ✿ **Understand the various graphic visual capabilities available**
- ✿ **Access & locate data within the HRSA Data Warehouse**
- ✿ **Be able to identify useful links that could support and augment information from the HRSA data warehouse**

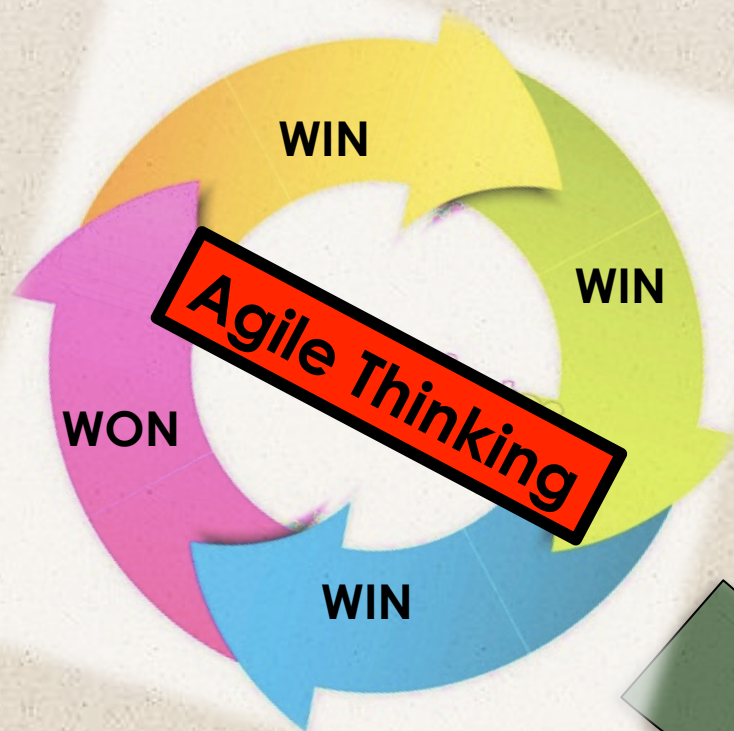
Data Warehouse

“A subject-oriented, integrated, time-variant, non volatile collection of data” used for the following business purposes:

- ❁ Data Storage**
- ❁ Allows data to be analyzed efficiently**
- ❁ Enhances data consistency and data quality**
- ❁ Produces historical intelligence**
- ❁ Support of management decision-making processes**
- ❁ Shows return of investment**

**The only way we can survive the future is to
create the future...**

Better Health Futures



**Futures Based Agile Thinking
(FBAT)
for Transformative Change**

**Wisdom in Networks
Wellness in the Nation
Wealth in the Nation
Whole of Nation**

Evidence Based Health & Health Care Practice Science

WISDOM

KNOWLEDGE

INFORMATION

External
Wisdom

Operational data

DATA

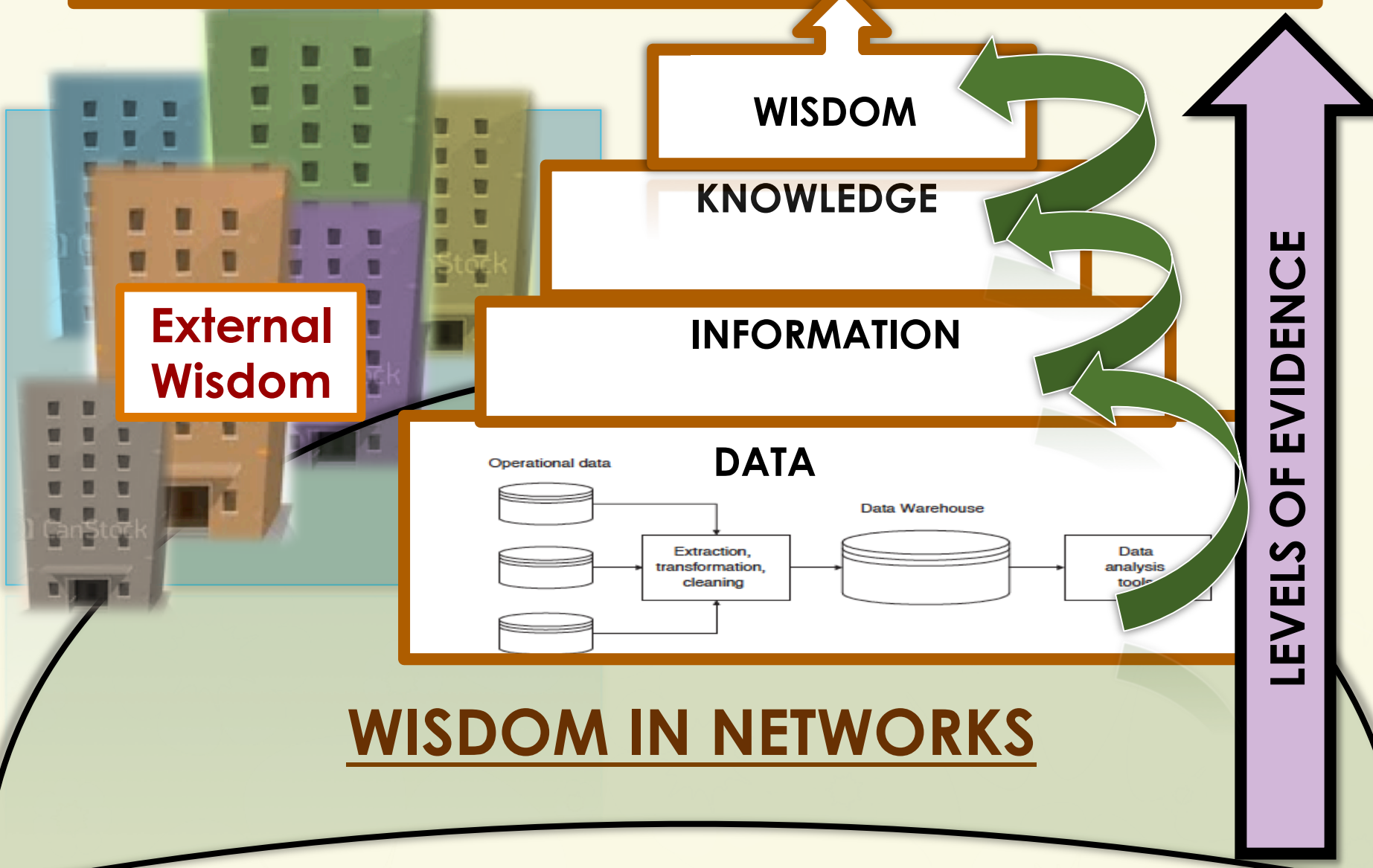
Data Warehouse

Extraction,
transformation,
cleaning

Data
analysis
tools

WISDOM IN NETWORKS

LEVELS OF EVIDENCE



Department of Health and Human Services (HHS)

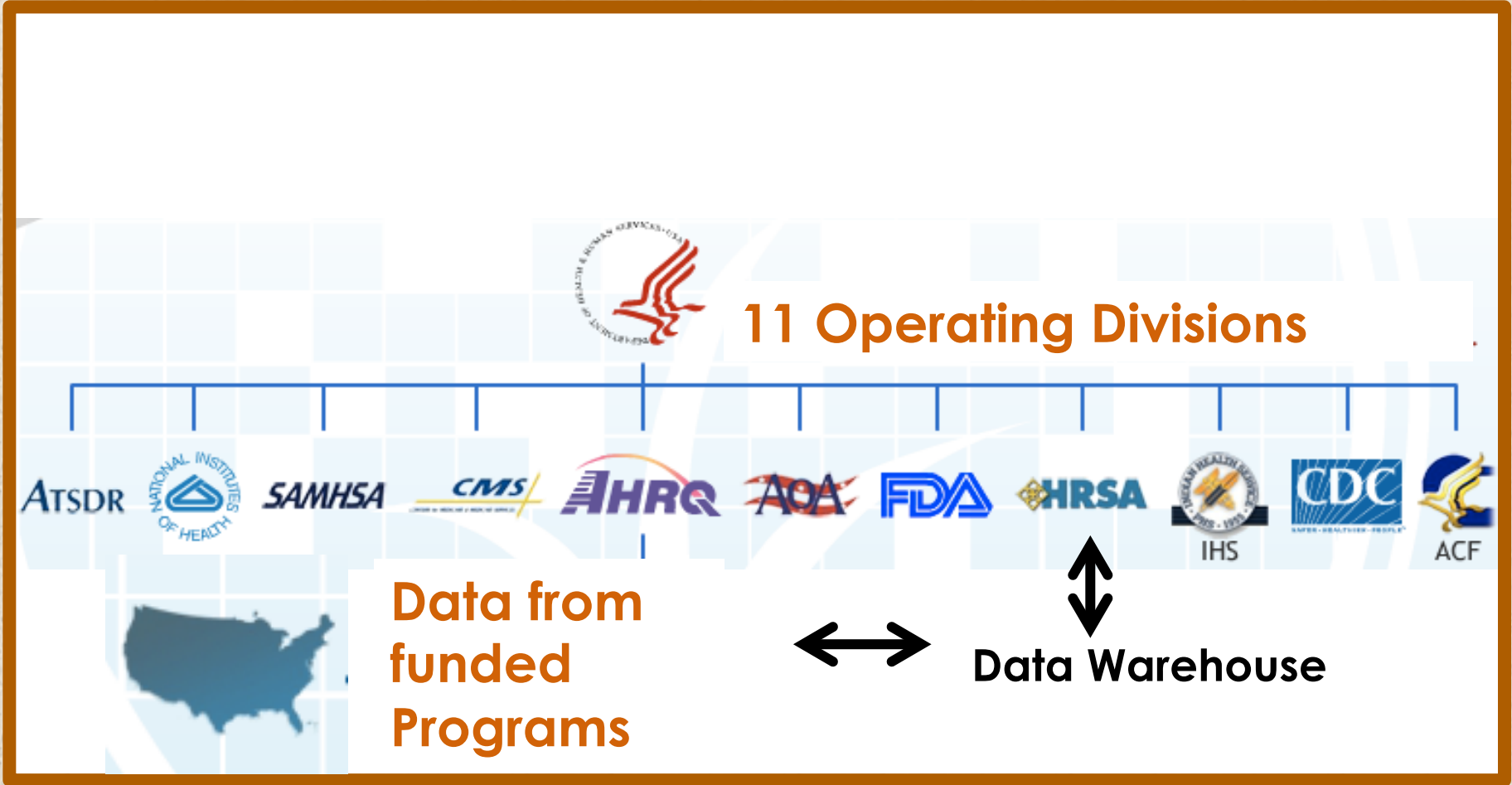


“The Department of Health and Human Services (HHS) is the United States government’s principal agency for protecting the health of all Americans and providing essential human services, especially for those who are least able to help themselves.”

Health Resources Services Administration (HRSA)

- ✿ Primary Federal agency for improving access to health care services for people who are uninsured, isolated or medically vulnerable.
- ✿ HRSA provides leadership & financial support to health care providers in every state and U.S. territory.
- ✿ HRSA grantees provide health care to uninsured people, people living with HIV/AIDS, and pregnant women, mothers and children.
- ✿ Train health professionals & improve systems of care in rural communities; maintain a health professional database
- ✿ Oversee organ transplant and cord blood donation.

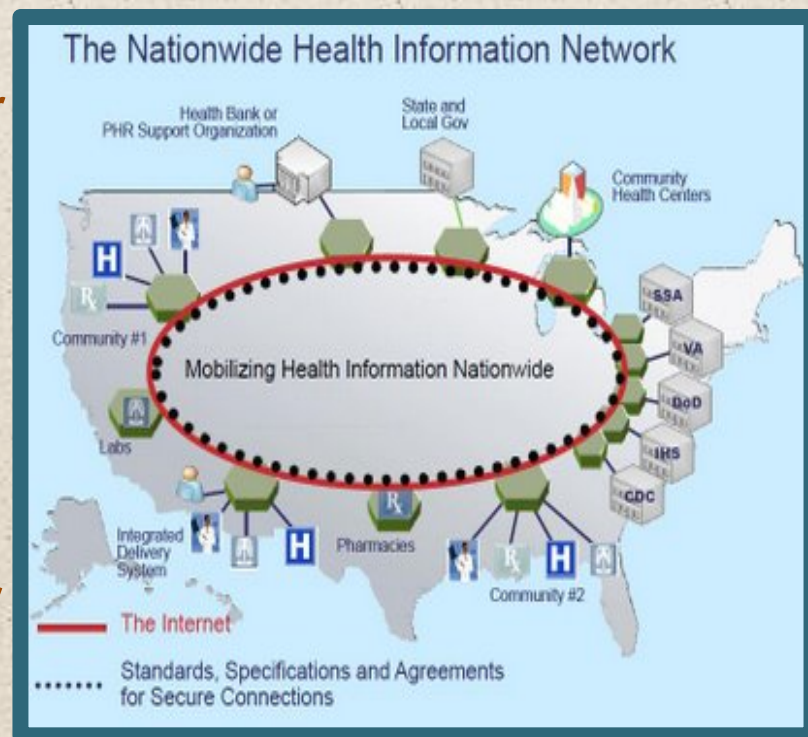
HHS Organizational Structure



HRSA Data Warehouse

The Data Warehouse is the central repository, access and information exchange point or “switch board” for HRSA data.

- ✿ It provides a safe & secure communication infrastructure between HRSA & its grantees;
- ✿ It is a hub of information exchange between HRSA & other national private & public health related organizations.
- ✿ It contains publicly available real world data & tools to present valuable information



<http://HRSAdatawarehouse.gov>

Warehouse Navigation Tips

Quick Search

The screenshot shows the HRSA Data Warehouse website interface. At the top left is the U.S. Department of Health and Human Services logo and the HRSA logo. The text "Health Resources and Services Administration Data Warehouse" is displayed. On the top right, the URL "www.hhs.gov" is shown, along with a search bar labeled "Search the HRSA Data Warehouse" and a search icon. Below the search bar is a link for "Advanced Search".

A horizontal navigation bar contains the following menu items: Home, Charts, Maps & Reports, Tools, Downloadable Data, Data Services, What's New, About the Data, Site Map, and Help/FAQs. An arrow points to the "Site Map" link.

Below the navigation bar, the text "You are here" is followed by a large "Navigation Bar" label. The main content area is titled "Getting Started...I am Interested in:" and features a list of categories, each with an icon and a dropdown arrow:

- HRSA Nationwide... (with an American flag icon)
- Grants: Active - Awarded - Recovery (with a dollar sign icon)
- National Health Service Corps... (with a heart and cross icon)
- Rural Health... (with a wheat stalk icon)
- Ryan White HIV/AIDS... (with a red ribbon icon)
- Maternal & Child Health... (with a mother and child icon)
- Primary Health Care... (with a medical shield icon)
- Site Map (with a map icon)
- Health Center Sites... (with a red cross icon)
- Shortage Areas... (with a map icon)
- Health Professions... (with a stethoscope icon)
- Organ Donation & Transplantation... (with a heart icon)
- Health Information Technology... (with a computer monitor icon)
- Healthcare Systems... (with a stethoscope icon)

An arrow points to the "Site Map" link in this list. To the right of the list is a text box titled "About Congressional District Boundaries:" which contains information about the 113th Congress and the HRSA Data Warehouse's use of geographies. Below this is another text box titled "HRSA Data Fact Sheets" which provides information about viewing summary program data and using comparison tools. At the bottom right, there is a "Did You Know" section.

Getting Started...I am Interested in:

Expand All

 HRSA Nationwide...	 HRSA In Your...
 Grants...	 Health Center Sites...
 Non-Profit Corps...	 Health Professions...
 Rural Health...	 Organ Donation & Transplantation...
 Ryan White HIV/AIDS...	 Health Information Technology...
 Maternal & Child Health...	 Healthcare Systems...
 Primary Health Care...	

Explanation of Congressional Districts




About Congressional District Boundaries:


On January 3, 2013, the 113th Congress began its session. The Census Bureau released the geographies for the new districts on January 7, 2013. The HDW is updating its reference data with the new geographies. In the interim, HDW will use the 112th Congressional District boundaries, which may affect geoprocessing assignments. [Read more >>](#)

Fact Sheets



 **Data Fact Sheets**

View HRSA summary program data by Nation, HRSA Region, State, County, or Congressional District with the **Data Fact Sheets**; or, sort and export data with the **Quick or Custom Comparison Tools**.



RSS Feeds



Did You Know

Get the snapshot of fiscal year 2010 Grants awarded by key program or state here.



Links



Related Sites

→ [Additional Data Sites](#)

Warehouse Visual Tools

The following are visual tools that the viewer can use to look at data:

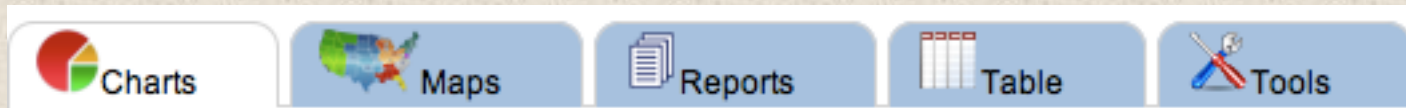


Chart view performance indicators information on important metrics, assisting in decision making



Maps visually explore HRSA relation to one another;



Reports – output traditional text-based reporting of the data available in the warehouse; Users can select, sort, export and view the data either by spreadsheet or preformatted reports;

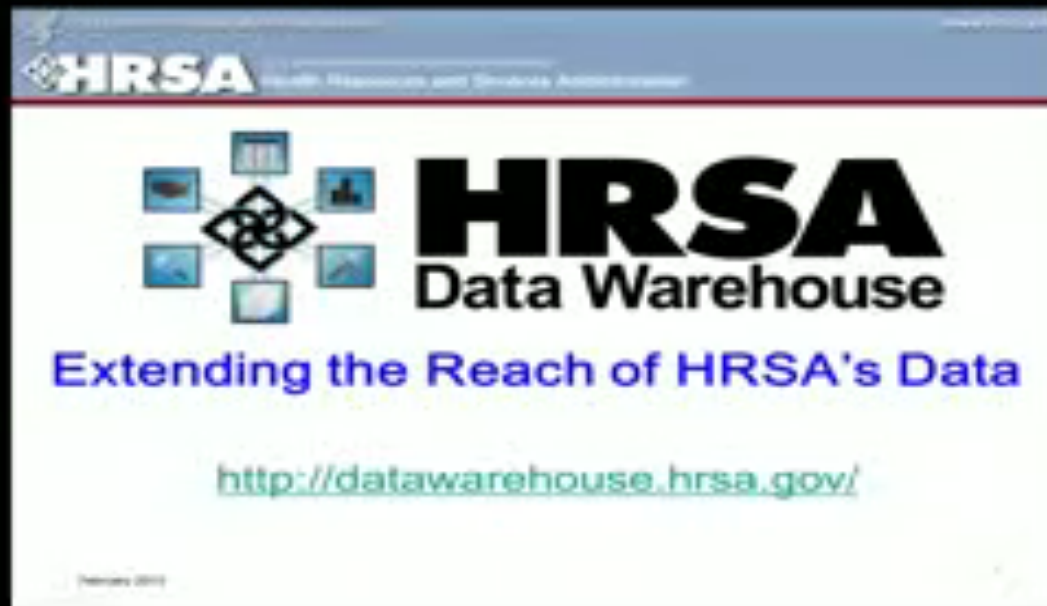


Tools (interactive)- search or sort data in a variety of useful ways, with as much simplicity or interactivity as needed



Tables- on-screen summary tables of key HRSA activities.

Guide to the Warehouse

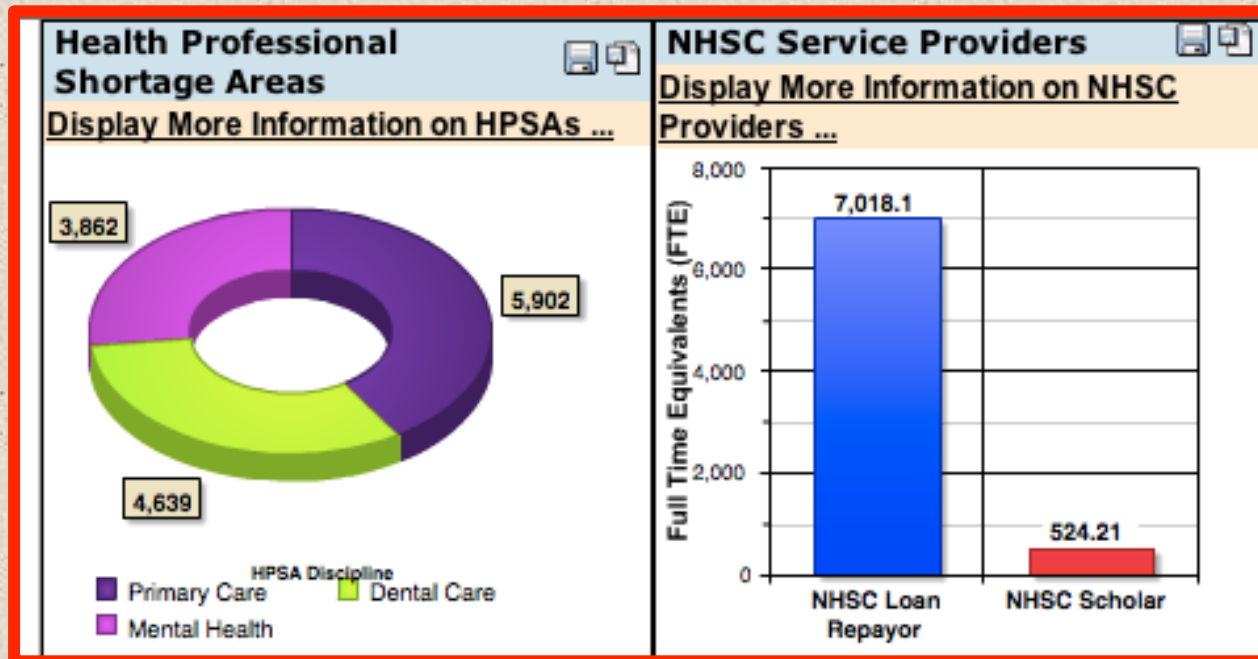


Welcome to the HRSA Data Warehouse
Introduction.

Video Tutorial

HRSA Nationwide

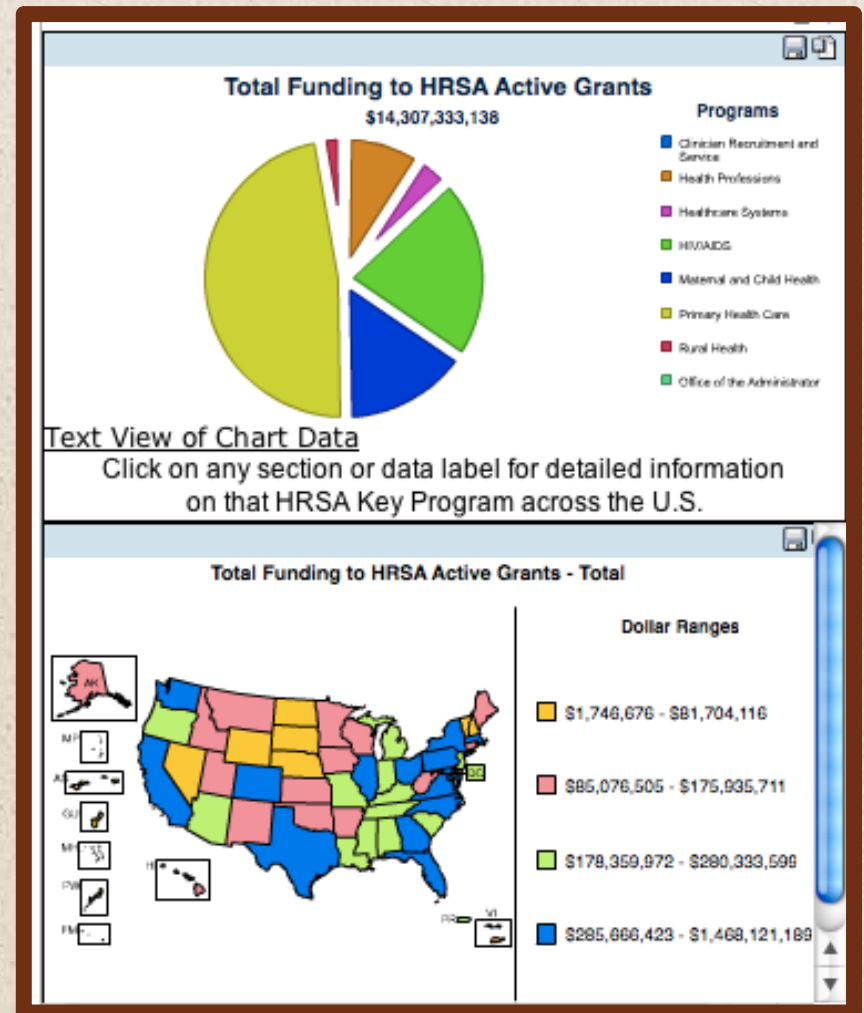
- ✿ Provides state & national-level summaries of data about HRSA's funded programs and activities
- ✿ Include data on population demographics from U.S. Census, data on Birth & Infant Deaths; Centers for Medicare & Medicaid Services (CMS) Providers of Services (hospitals & other facilities)



Grants

Includes "active grants" funding amounts geographic location of grant site of HRSA funded programs.

Category	Item	Value	As of
Grants	Active Grants	7,189	03/26/2013
	--> Grantees with Active Grants	3,047	03/26/2013
	--> Total Funding to Active Grants	\$ 14,307,333,138	03/26/2013
	--> Current FY Awards (to date, all grants)	\$ 1,338,493,575	03/26/2013
	--> Previous FY Awards (complete FY, all grants)	\$ 7,575,889,680	03/26/2013



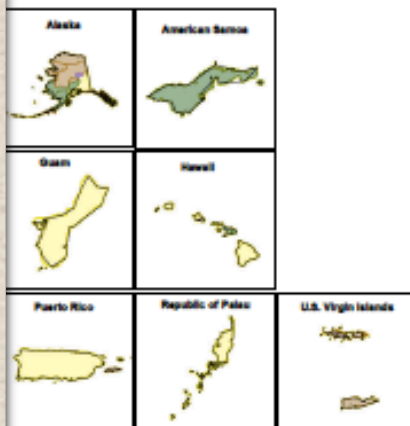
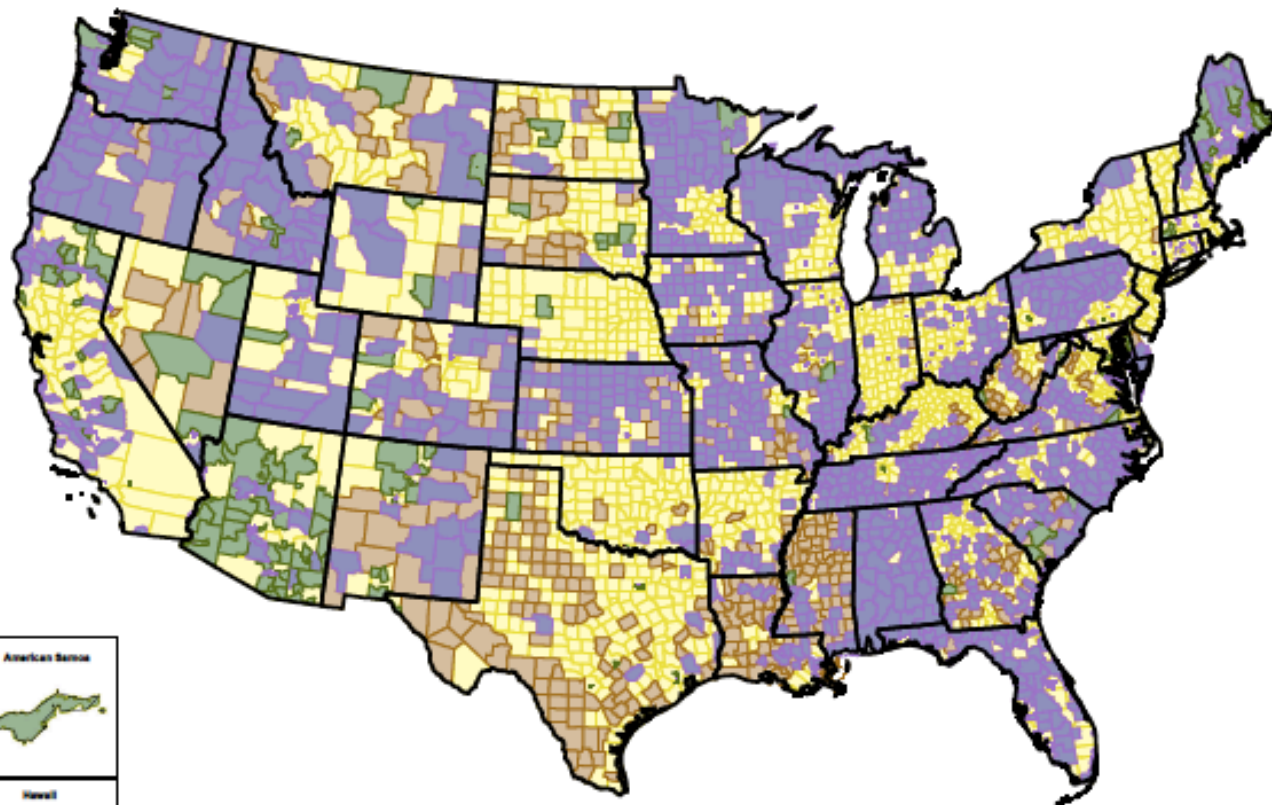
National Health Services Corps (NHSC)

The NHSC database provides the following data:

- ✿ NHSC number of FTEs by demographic distribution & location (state, county, site)
- ✿ By clinical discipline
- ✿ Amount of funding for scholarships & loan repayment
- ✿ HRSA program job opportunities & scholarships available
- ✿ HRSA grant, actual shortage, & HPSA approved sites

Health Professional Shortage Areas - Dental Care

Data as of Mar 26 2011



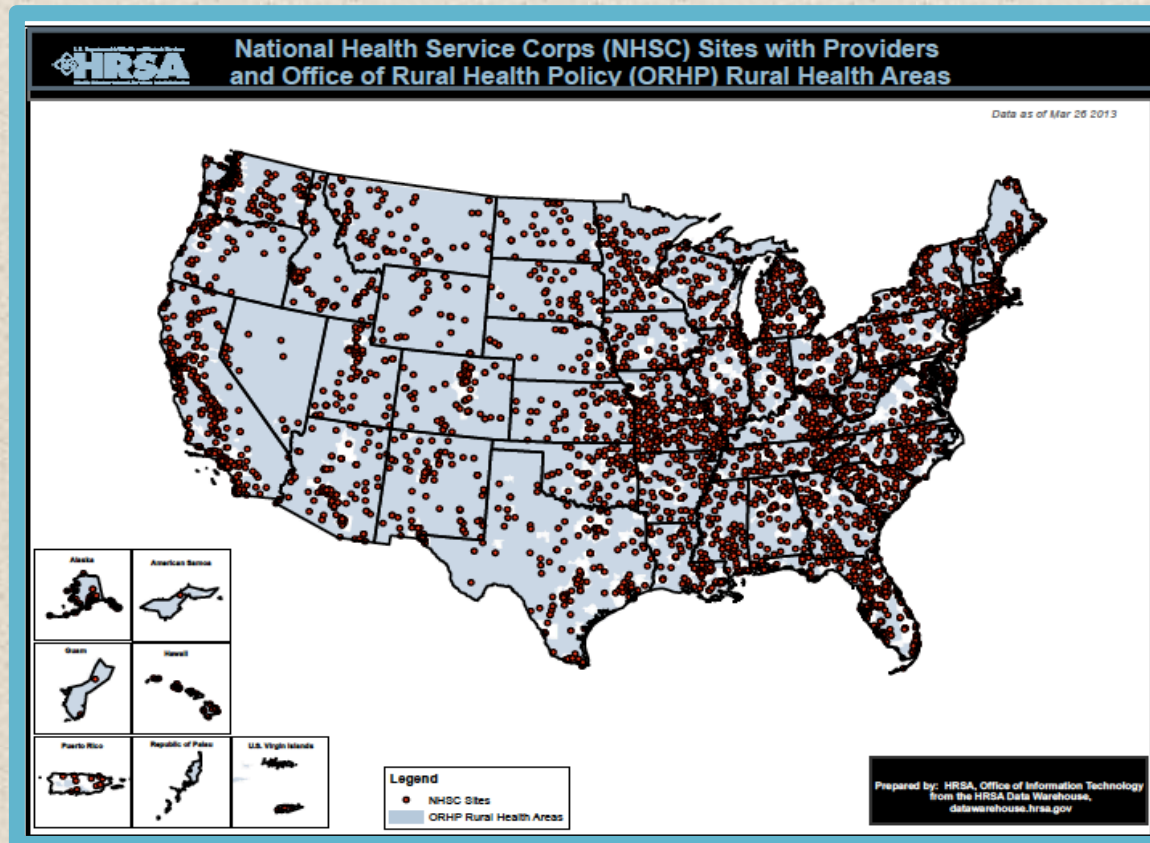
Legend

Health Professional Shortage Areas - Dental Care

- Geographical Area
- Population Group
- Single County
- Not Dental Care HPSA

Rural Health Programs

- ⚙ Details HRSA's funded programs & activities in designated rural areas.
- ⚙ Rural health clinics location & funding amount



Ryan White/HIV/AIDS

- ❁ Total active funding per state or site
- ❁ Map of site specific programs available for patients
- ❁ Sites & training services for providers
- ❁ Facility name, address and name of site providers in a state/county

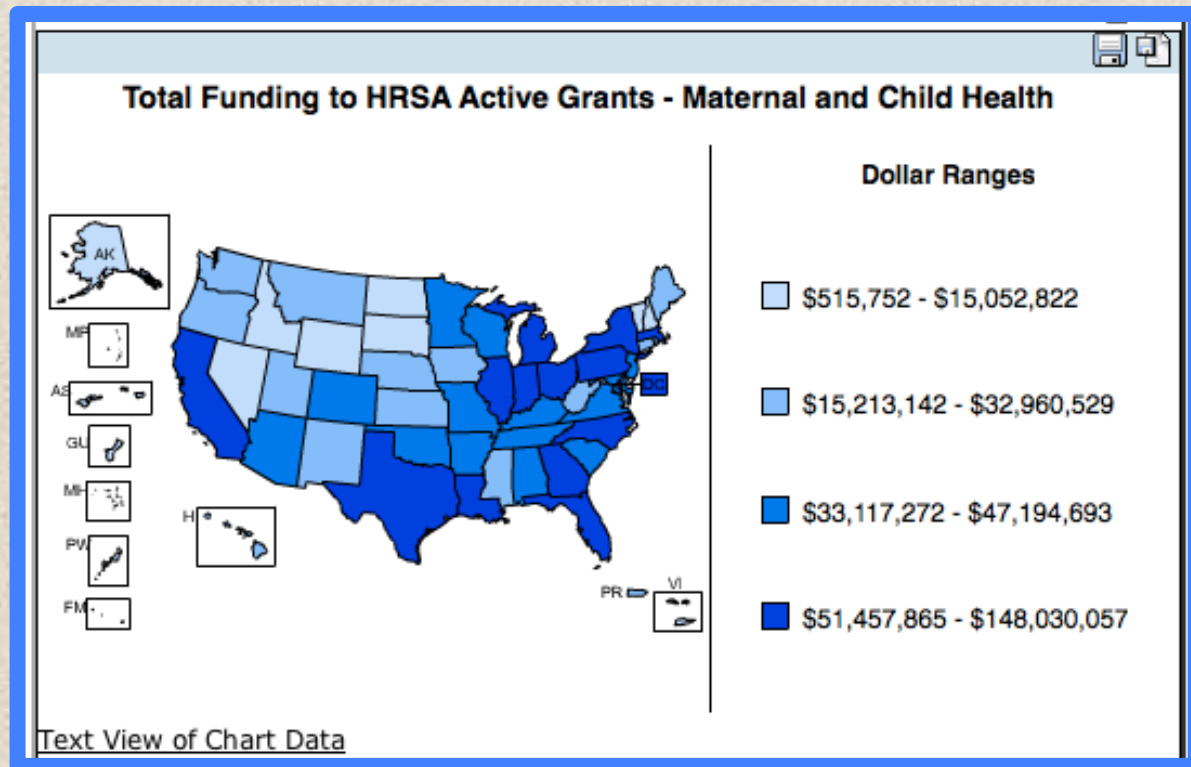
Ryan White HIV/AIDS Medical Care Providers
Near Las Vegas, NV 89129
Results 1 - 7 of total 7. Page 1 of 1

1	UMC Wellness Center (~ 7.7 miles away) 701 Shadow Ln, Las Vegas, NV 89106-4131 702-207-8378 http://www.umcsn.com/ Get directions to this site from this site Map this result
2	Community Outreach Medical Center (~ 11.76 miles away) 3603 Las Vegas Blvd N Ste 110, Las Vegas, NV 89115-0590 702-657-3873 http://www.nvcomc.org/ Get directions to this site from this site Map this result
3	Mohave County Department of Public Health (~ 86.17 miles away) 1222 Hancock Rd, Bullhead City, AZ 86442-5906 928-758-0703 http://www.co.mohave.az.us Get directions to this site from this site Map this result
4	Mohave County Department of Public Health (~ 86.17 miles away)

Results using the search tool

Maternal & Child Health (MCH)

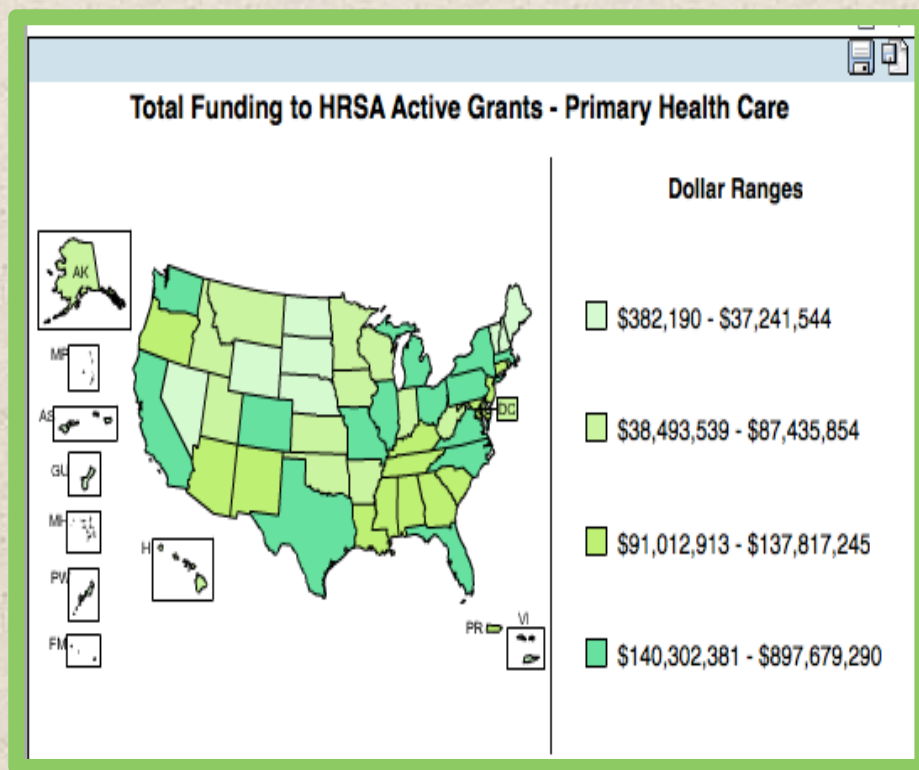
These grants improve access to quality health care for women and their families. Information available include MCH grant sites, amount, & training investment amount.



Bureau of Primary Health Care (BPHC)

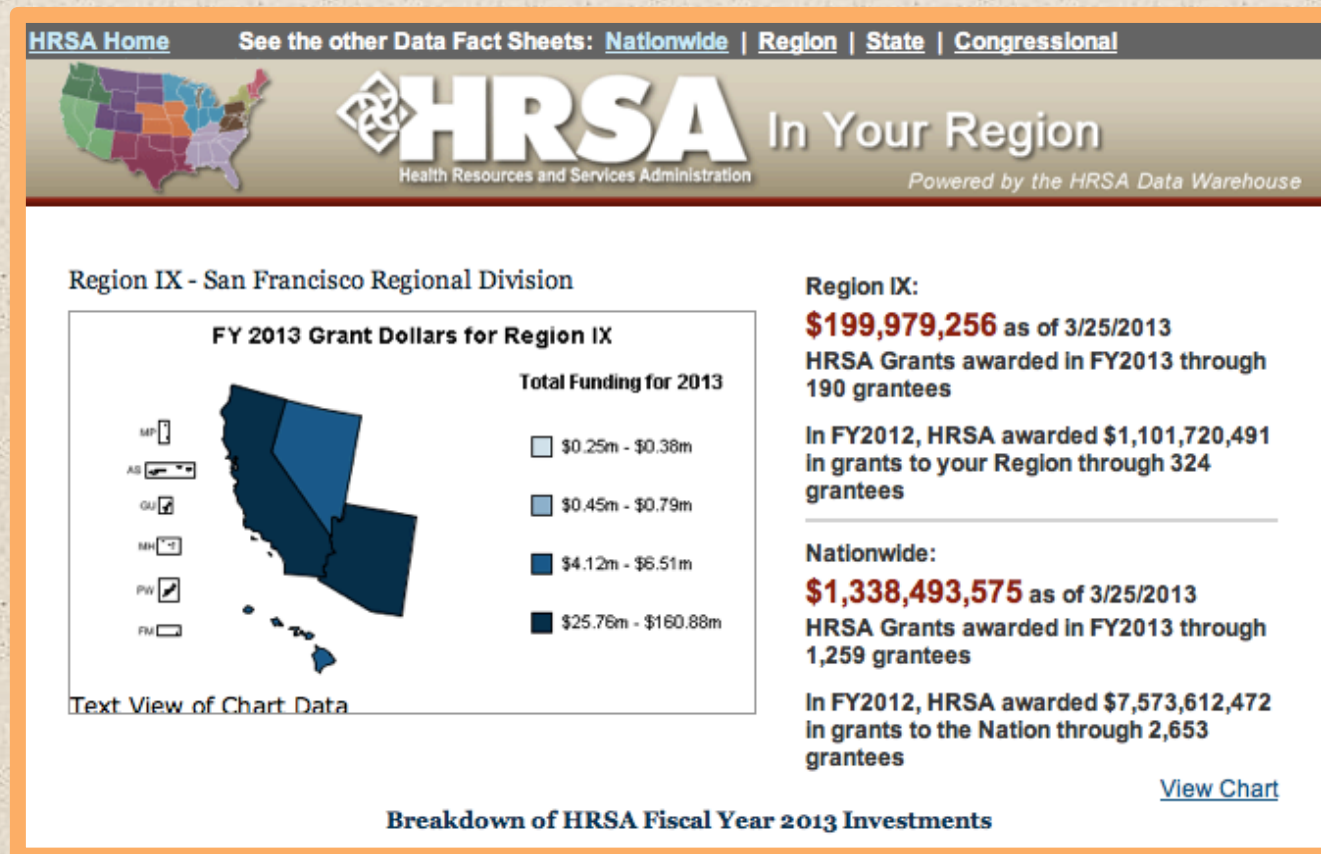
Provides data on primary healthcare grants by state, county & nationwide; Grantee Name, Program Director Name and contact information, DUNS Number, Transactional EIN, City, Congressional District, Budget Period, Project Period, HRSA Key Program Code, Transaction Number, and Financial Assistance per CAN Fiscal Year.

Links to finding a Migrant & Seasonal Head Start Center address, map, including driving direction



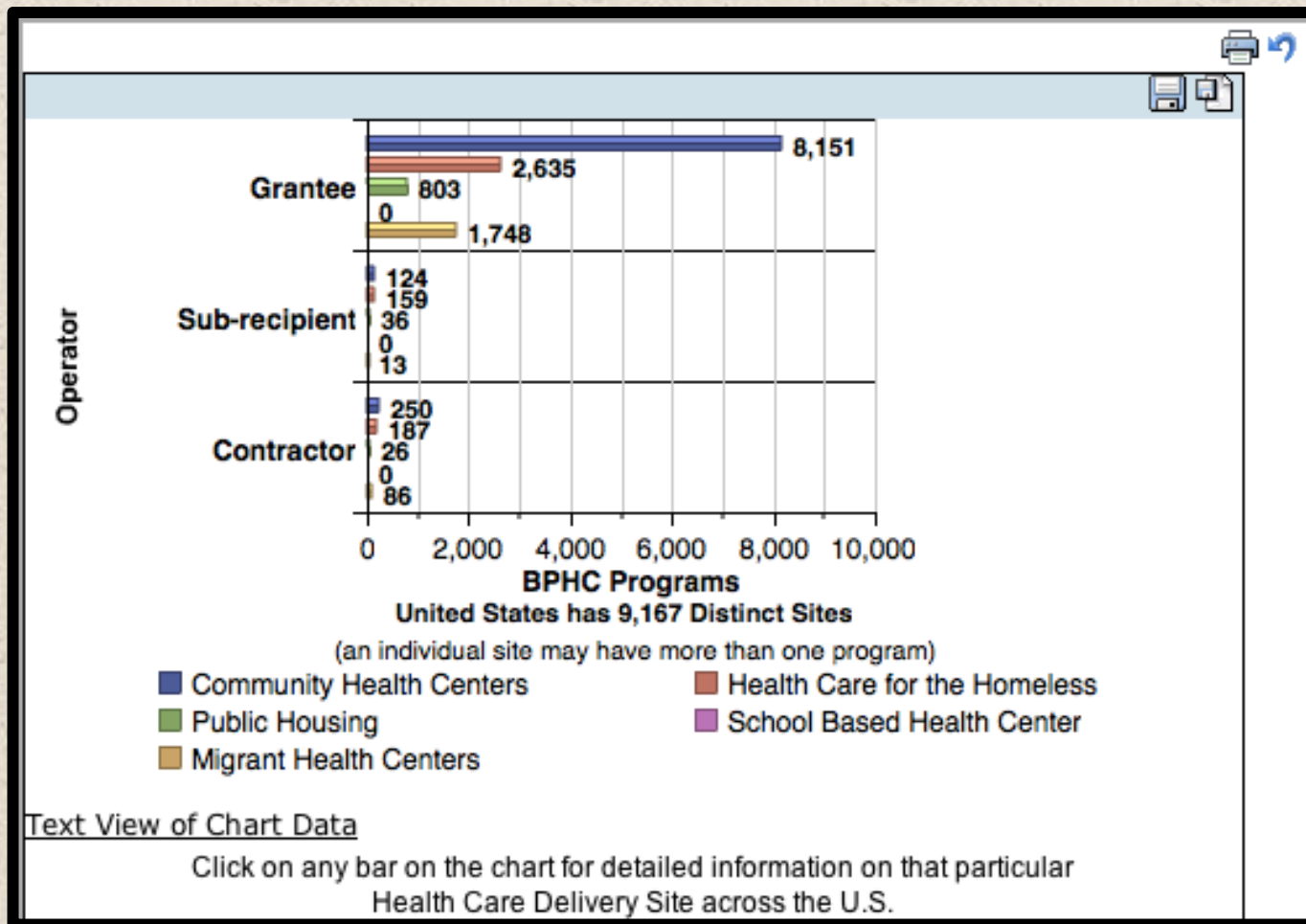
HRSA in Your Neighborhood

Provide summary data about HRSA's activities in each Congressional District, County, State, Region, & Nationwide.



Health Center Sites

Includes a site directory, by type of health center, program delivery information & geographic location.



Shortage Areas

- ❁ Federally designated Medically Underserved Areas (MUA) (geographic location and census)
- ❁ Health Professions Shortage Areas (HPSA) by address, county or state; based on discipline (dental, primary care, mental health, etc.); & eligibility status.

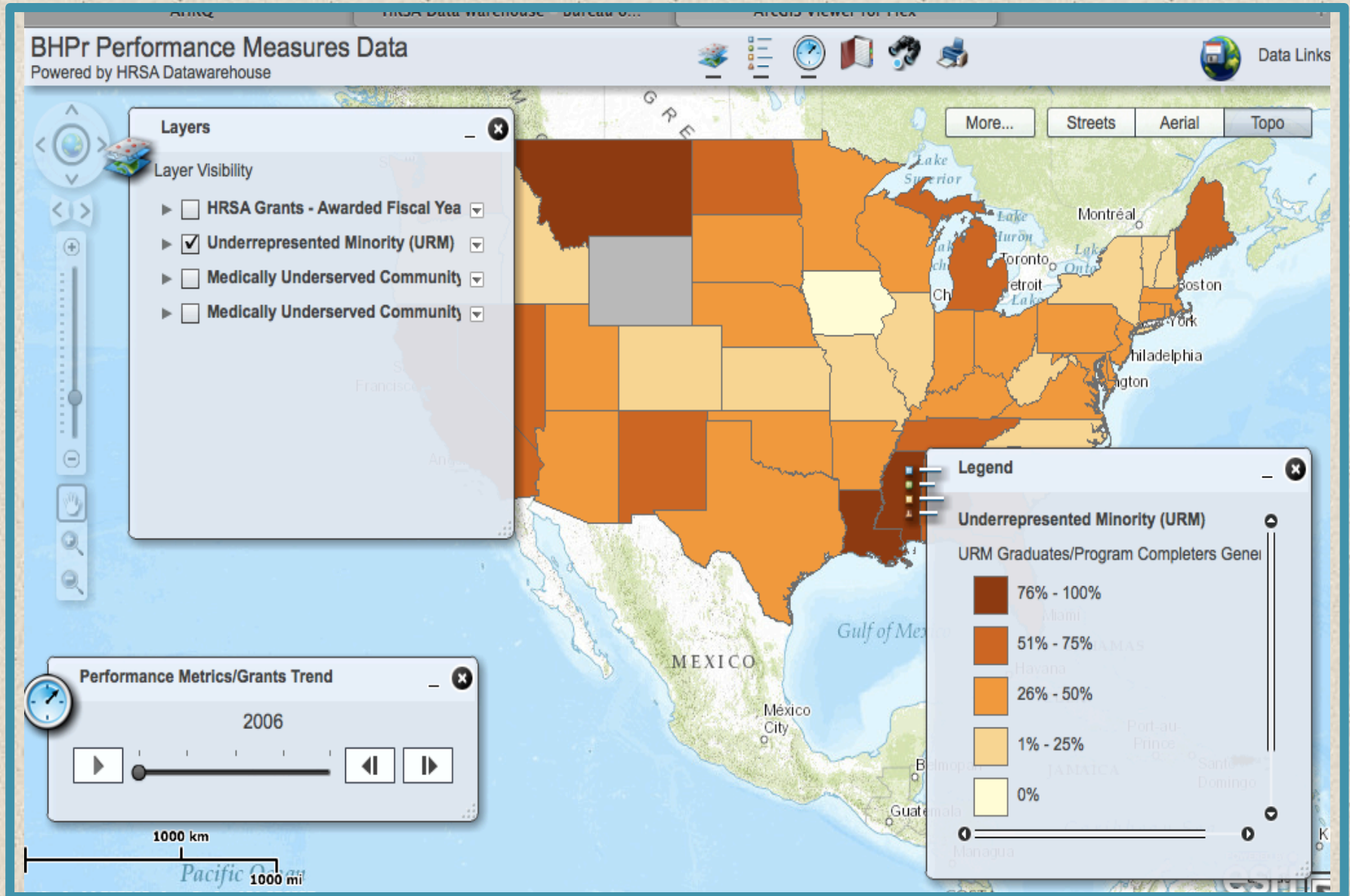
Find Shortage Areas: HPSA by State & County						
Shortage Designation Home Find Shortage Areas HPSA & MUA/P by Address HPSA Eligible for the Medicare Physician Bonus Payment MUA/P by State & County	Criteria:					
	State: Nevada County: Clark County ID: All		Discipline: Primary Medical Care Metro: All Status: Designated Type: All			
	Date of Last Update: All Dates HPSA Score (lower limit): 0					
	Results: 163 records found. (Satellite sites of Comprehensive Health Centers automatically assume the HPSA score of the affiliated grantee. They are not listed separately.)					
	HPSA Name	ID	Type	FTE	# Short	Score
	003 - Clark County					
	Indian Springs	1329993213	Geographical Area	1	2	14
	C.T. 0058.18		Census Tract			
	C.T. 0058.23		Census Tract			
	C.T. 0058.27		Census Tract			
	C.T. 0075.00		Census Tract			
	Northern Clark Service Area	1329993215	Geographical Area	1	2	14
	C.T. 0056.12		Census Tract			
	C.T. 0056.13		Census Tract			
	C.T. 0059.02		Census Tract			
	C.T. 0076.00		Census Tract			
	Las Vegas Indian Center	1329993269	Native American Tribal Population		0	12
	Moapa Band of Paiutes	1329993270	Native American Tribal Population		0	0
	Las Vegas Paiute Tribe	1329993271	Native American Tribal Population		0	0

Health Professions

HRSA's Health Professions programs provide policy leadership & grant support for health professions workforce development, thus ensuring the nation has the right clinicians, with the right skills, working where they are needed.

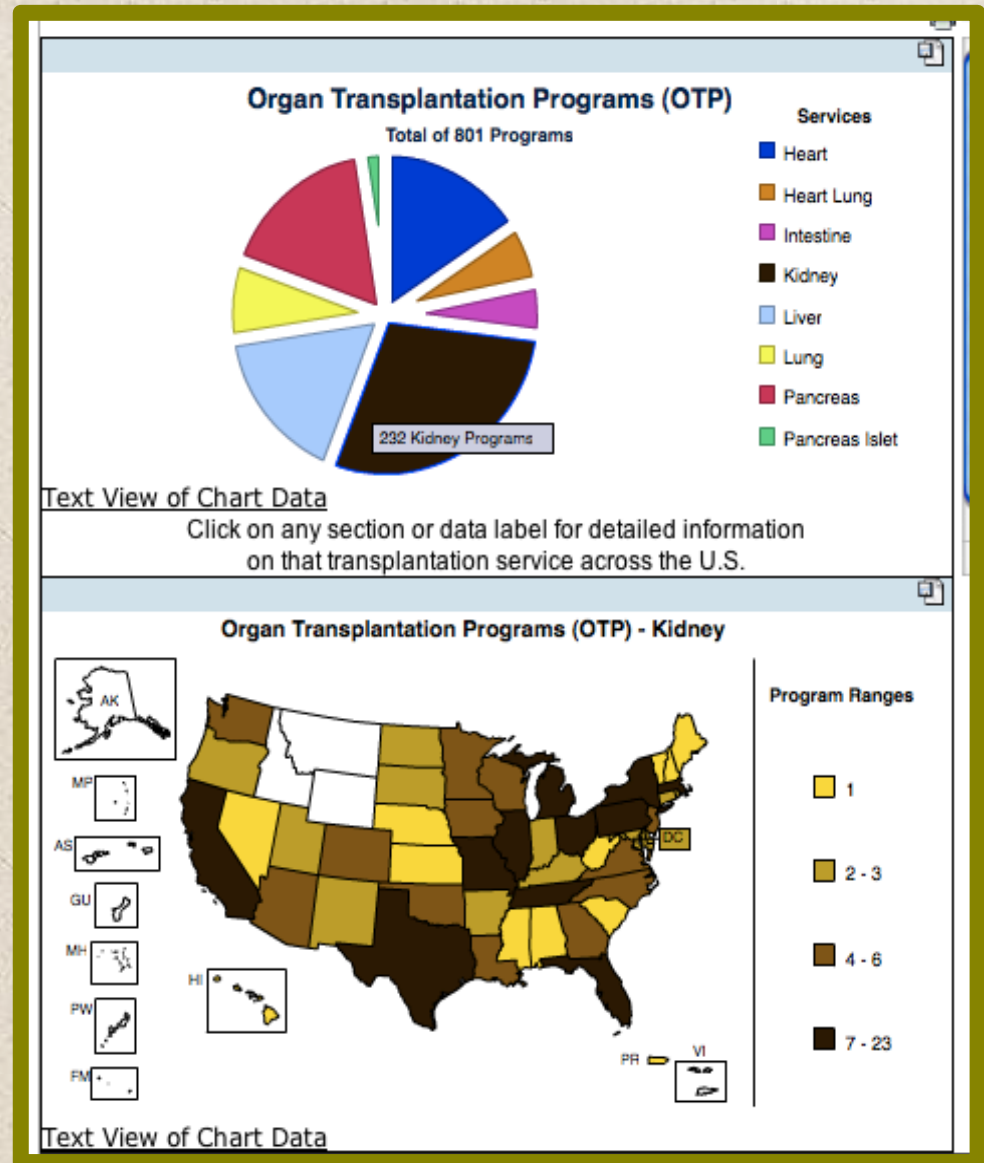
- ✿ Information on type of grant/funding, discipline, geographic location
- ✿ Link to the National Practitioner; Health Integrity and Protection Integrity Databank

ArcGIS Viewer Accessed Under Tools Tab



Organ Donation & Transplantation

- ❁ Provide data on funded grants, organ procurement organizations & transplantation centers nationwide.
- ❁ A chart shows the % of organ transplants & a nationwide map that show the center location & the organ type donated.
- ❁ Links to related sites



Healthcare Systems

❁ Database of current funded healthcare system grants, amount, and geographic location.

❁ A link is provided to search for current program grantees.



Find Grants

Find Grants gives you the ability to find HRSA active and awarded grants from fiscal year 1999 to the current date.
To select multiple items in any dropdown, press and hold down the "Ctrl" key while clicking (or Cmd-Click on Mac).

Key Program:

- All Key Programs
- Clinician Recruitment and Service
- Health Professions
- Healthcare Systems

Active or Awarded Fiscal Year:

- All Active Grants
- FY 2012
- FY 2011
- FY 2010

Program Name:

- All Programs
- Appalachian Regional Development Project (C62)
- Bioterrorism- Hospital Preparedness Program (U3R)
- Clinical Interventions to Increase Organ Procurement (R38)

State:

- All States
- Alabama
- Alaska
- Arizona

County:

- All Counties
- Baldwin County, Alabama
- Bibb County, Alabama
- Colbert County, Alabama

Grantee Class:

- All Grantee Classes
- State
- County
- Municipal

Warehouse Features

- ✿ It can provide data that can be downloaded into CSV, report, map, Excel, SQL, PDF, GIF, table, chart format
- ✿ Updated daily and regularly
- ✿ Contains links to other relevant sites that support HRSA data
- ✿ Compare, analyze & synthesize data from the city, county, state & national level
- ✿ Identify HRSA grantees (Provider) & locate addresses of HRSA supported centers
- ✿ Interoperable & open with other Federal, public, private organization databases
- ✿ Secure as all data is de-identified
- ✿ Provide answers to audience specific questions-provides analysis of data
- ✿ Upgradeable

Functionalities

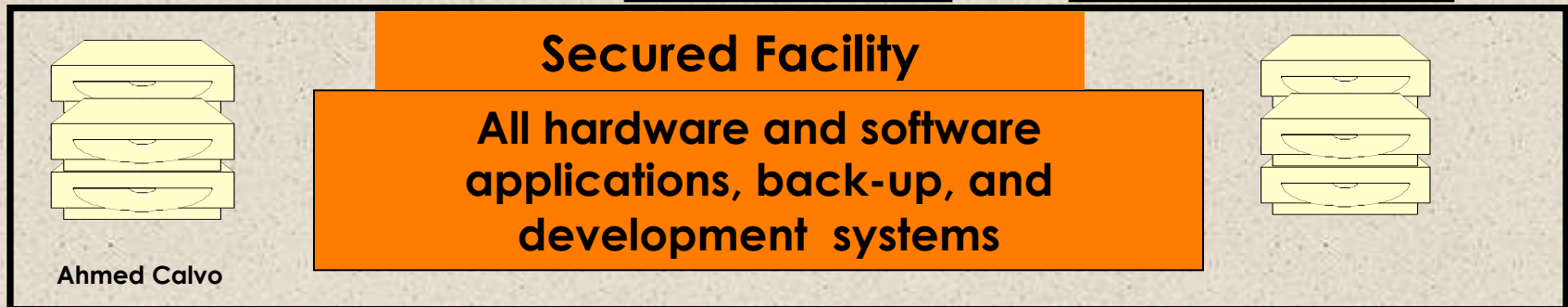
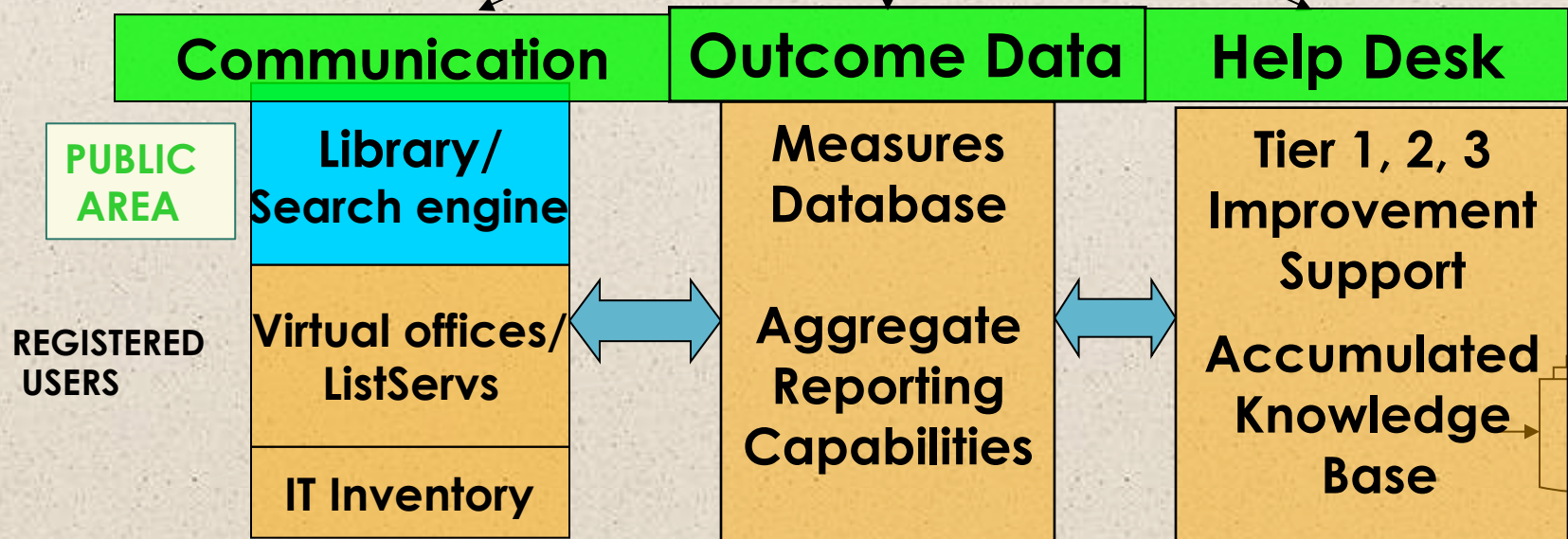
- ✿ **Where can I find a health center close to where I live?**
- ✿ **Where can I find grants or scholarships to support my education?**
- ✿ **Where can I find a grant to fund my project on educating new mothers on how to take care of their new born?**
- ✿ **How do I find out if my clinic address is considered a medically underserved area?**
- ✿ **Do we have enough mental health care professionals in my state?**
- ✿ **Where can I find data on health care centers in my state that offers assistance to HIV/AIDS patients?**
- ✿ **I want to know what grants are supported by the government to promote health and improve access to healthcare for vulnerable populations?**

Limitations

- ✿ **Navigation**
- ✿ **Broken links**
- ✿ **Subject to tech glitches**
- ✿ **Data is limited**
- ✿ **Data reliability & validity**
- ✿ **Data Transmission (security & privacy)**
- ✿ **Interoperability**
- ✿ **Room for expansion & improvement**

HRSA Quality Improvement Efforts

Single access portal for HRSA grantees in the field
www.healthdisparities.net or www.healthcarecommunities.org



Message



Lets create a better future for ourselves and the generations to come.

References

Data Warehouse Institute. Accessed March 13, 2013 from

<http://tdwi.org/portals/data-warehousing.aspx>

HHS (2013). About us. Accessed March 15, 2013 from <http://www.hhs.gov/about/>

HRSA Data Warehouse (2013). Accessed March 15, 2013 from <http://datawarehouse.hrsa.gov/>

Institute for Alternative Futures. Accessed March 25, 2013 from <http://www.altfutures.org/newsite>

Question to run on:

What is the overarching theme of the presentation?