

Update On the National Environmental Public Health Tracking Network

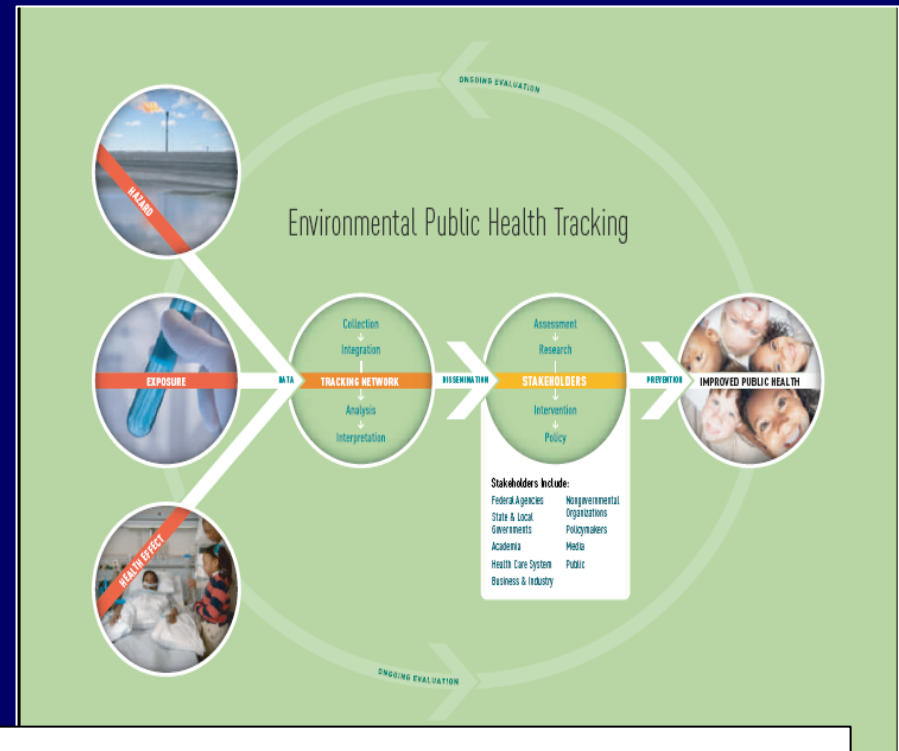
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Lisa Hines
Heather Strosnider

*Environmental Health Tracking Branch
Division of Environmental Hazards and Health Effects
National Center for Environmental Health
Centers for Disease Control and Prevention*



Bridging America's Environmental Health Gap

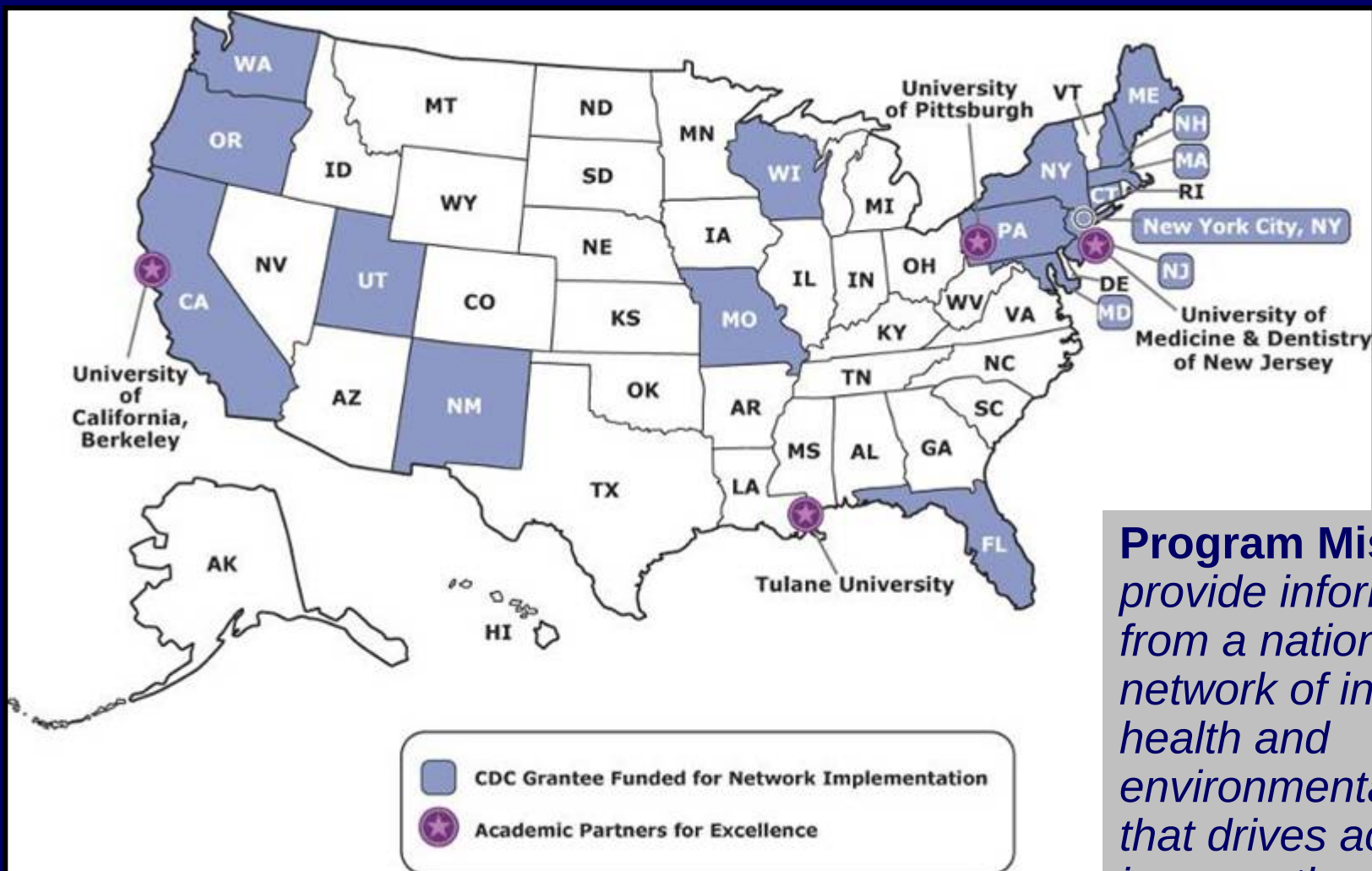
Environmental Public Health Tracking



“When the Pew Commission report came out, everyone—the press, the public, Congress—couldn’t believe that a tracking program didn’t already exist.”

SHELLEY HEALINE, Dr. P.H., FOUNDING EXECUTIVE DIRECTOR, TRUST FOR AMERICA'S HEALTH

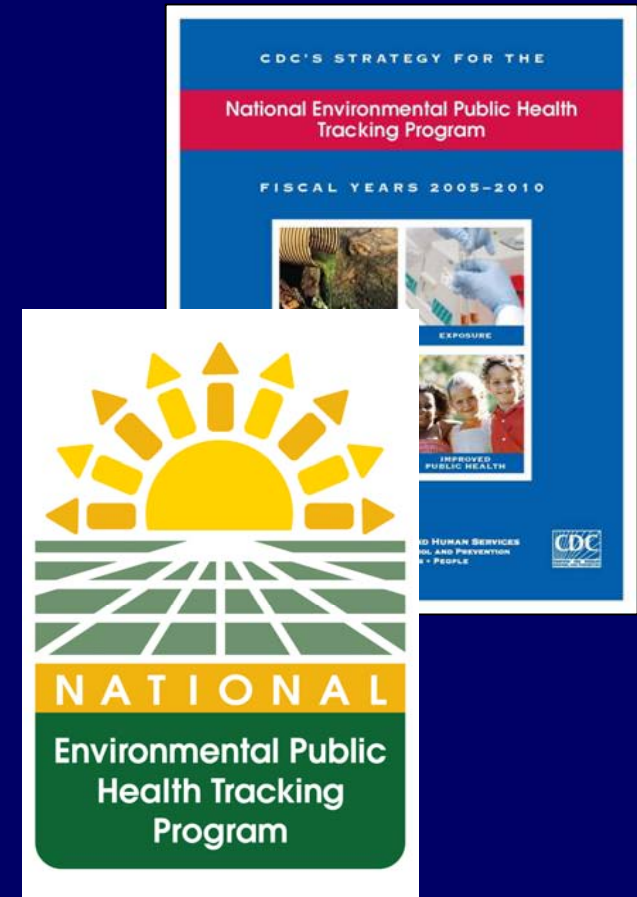
CDC's Tracking Program, 2008



Program Mission: *To provide information from a nationwide network of integrated health and environmental data that drives actions to improve the health of communities*

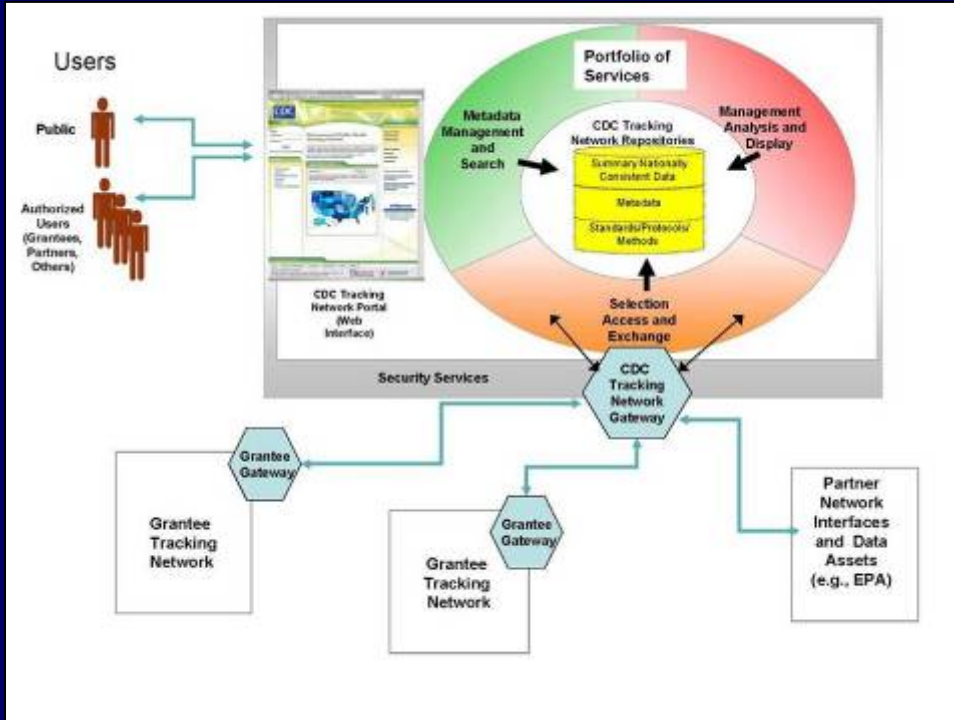
CDC's Tracking Program, 2009

- ❖ Funding increased
- ❖ New RFA
 - Expect five new grantees



Tracking Network: At-A-Glance

A web-based information system that exists at the local, state, and national level that serves the public, environmental public health agencies, health care providers and researchers



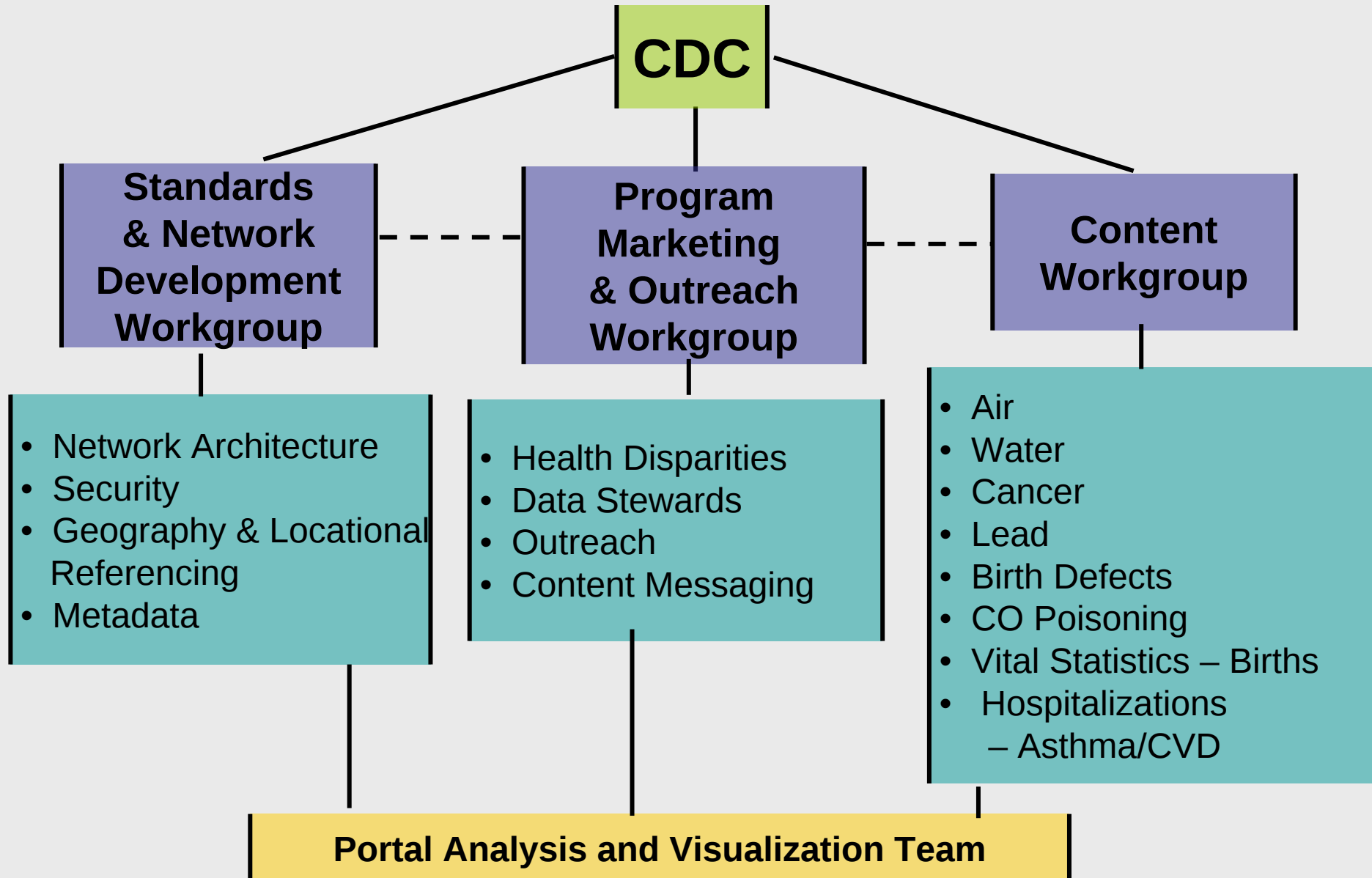
Functions:

- ❖ Provide Nationally Consistent Data and Measures
- ❖ Describe and Discover Data
- ❖ Exchange Data
- ❖ Provide Data Management and Analysis Tools
- ❖ Inform and Interact with the Public

Development Timeline



Collaborative Development Process



National Tracking Network

Showcased at
Feb 09
National
Conference

Public Portal

- ❖ One-stop access to health and environmental information
- ❖ Risk and prevention messages + query system
- ❖ Design based on extensive user testing

Secure Portal

- ❖ Supporting secure collaboration among multiple partners
- ❖ Integrating health, exposure, hazard, and other data
- ❖ Sharing of methods, tools, and ideas
- ❖ Drawing board for turning data into information



Current Data Sources

Directly from States:

- Asthma, MI, CO hospitalizations
- CO ED
- Drinking water
- Birth defects

From Federal partners:

- Childhood lead poisoning
- Vital statistics
- Cancer
- Air
- USGS water

- Obtaining state health data from Feds – data steward involvement



Data on Version 1.0 of Public Portal

- ❖ Asthma, MI, and CO hospitalization
- ❖ CO ED
- ❖ Childhood lead poisoning and testing
- ❖ Housing
- ❖ Cancer (SEER states excluding LA; lung and childhood leukemia)
- ❖ Air
- ❖ Drinking water
- ❖ USGS ground water



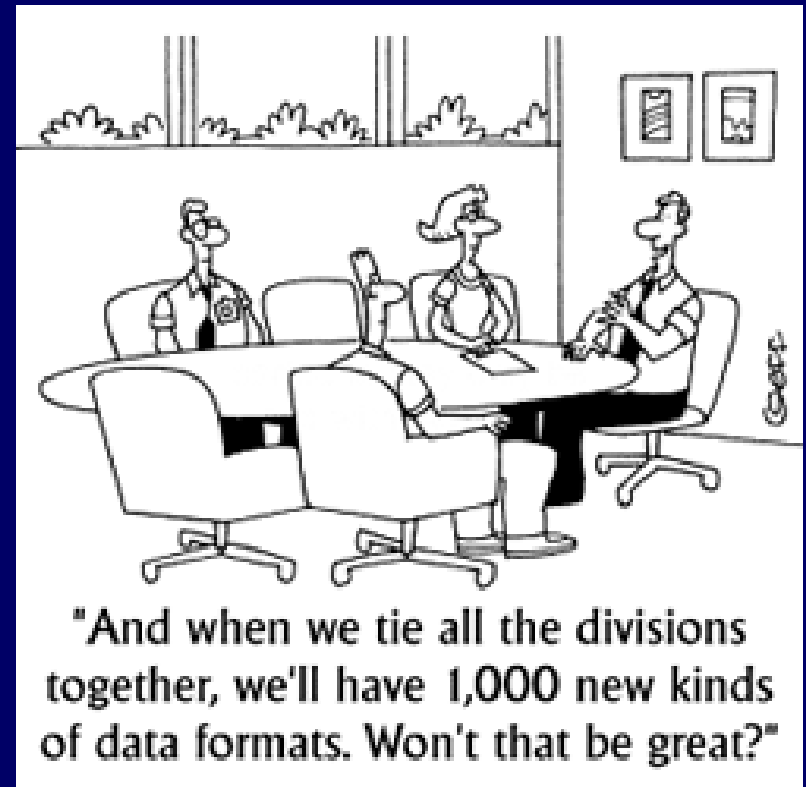
Planned Enhancements: Data

- ❖ Average daily number of hospitalizations for asthma and heart attack by month
- ❖ Birth defects for four states
- ❖ Carbon monoxide mortality
- ❖ Information on the presence of legislation mandating carbon monoxide detectors in homes
- ❖ Reproductive outcomes such as low birth weight and preterm birth
- ❖ Additional census information
- ❖ Additional data on ozone and particulate matter (e.g. modeled estimates)



Making Data Available

- ❖ Data from a variety of sources
- ❖ Nationally Consistent Data and Measures
- ❖ Protecting privacy
 - Aggregation
 - Suppression
 - Smoothing



Framework for Content

Content Area	Indicator	Measure	Dataset	Related Indicators
Childhood Lead Poisoning	Blood Lead Levels by Birth Cohort	Number/percent of children tested	CLP2	Lead-Based Paint in Homes
		Number/percent of children tested with confirmed elevated blood lead levels	CLP2	
Homes	Lead-Based Paint in Homes	Number/percent of homes built before 1950	LBPH	Blood Lead Levels by Birth Cohort
		Number/percent of homes built between 1950 and 1979	LBPH	

National Public Portal Demo



Planned Enhancements: Functions

- ❖ Enhanced mapping capabilities
- ❖ Additional advanced viewing options
- ❖ Pre-designed “Quick” Reports
- ❖ Enhanced metadata
- ❖ Additional combinations of data across time or space
- ❖ Implementation of a second view feature



National Secure Portal

- ❖ Federal IT Security Std.
- ❖ Registered users
 1. Authentication – CDC Secure Data Network
 2. Authorization –
 - Application Level – role based
 - Data access – role and use based
 - ❖ State provided data – approval by state
 - ❖ Federal/federally held data – as determined by DSA
- ❖ Business Objects Web Intelligence



Business Objects Web Intelligence

- ❖ Provides a large array of tools on a single integrated platform
 - Secured management of data
 - Data integration capabilities
 - Analysis (reporting, charting, mapping, linking)
 - Integration with Microsoft Office products
 - Standards compliant (XML, Java)
 - Integrated Learning Tools (Knowledge Accelerator)



Secure Portal

❖ Expected to launch soon after the Public Portal

❖ Features:

- Role/based access giving data owners the ability to delegate access to their data to other secure portal users.
- Drag and drop report building based on the Business Objects software tool.
- Access to the Tracking Toolkit
- Access to the Tracking metadata creation tool.

❖ Planned enhancements:

- Online training modules
- Maps
- Collaborative workspace



http://app-ng-nephtnin:8080/businessobjects/enterprise115/desktoplaunch/InfoView/logon/logon.object;jsessionid=BAAC56

Google

EditViewFavoritesToolsHelp

LinksCustomize LinksGoogleMy Yahoo!NCEH-ATSDR HomeConference Room

InfoView

HomeRSSPrintExportHelp

Business Objects

Welcome: ckass

NewSendMy InfoViewSearch title

Run Query

Properties

Hospitalization

State Code

County Code

Municipal Code

Zip Code

Census Tract Code

Event Id

Admission Year

Admission Date

Discharge Date

Age

Gender

Race Ethnicity Report

Race Reporting Method

Race Ethnicity

Transfer Exclusion

Exclusion Method

Disease Code Type

Disease Code

Admissions

Result Objects

AgeGenderState NameCounty NameAdmission YearAdmissions

Query Filters

To filter the query, drag predefined filters here or drag objects here then use the Filter Editor to define custom filters.

Query 1

Last Refresh Date: February 15, 2008 2:20:22

Admissions

Local intranet100%

InfoView - Windows Internet Explorer

http://app-ng-nephtn:8080/businessobjects/enterprise115/desktoplaunch/InfoView/login/login.object;jsessionid=BAAC56

Google

File Edit View Favorites Tools Help

Links Customize Links Google My Yahoo! NCEH-ATSDR Home Conference Room

InfoView

Welcome: ckassing

Asthma Hospitalizations

Edit Query

Edit Report

Refresh Data

View Structure

Drill

Page 1

Data

Templ..

Map

Proper..

Asthma Hospitalizations

Admission Year

Age

County Name

Gender

State Name

Admissions

Admission Year

State Name

Admissions

2006

Florida

139

2005

Florida

144

2004

Florida

145

2003

Florida

140

2002

Florida

149

2001

Florida

137

2000

Florida

146

Florida

1,000

Admission Year

State Name

Admissions

2005

Utah

3,919

Admissions by Year

State

County

Admissions by Year - Bar chart

Admissions by Year - Pie chart

Admissions

5,000

4,500

4,000

3,500

3,000

2,500

2,000

Bar chart showing Admissions by Year. The Y-axis is labeled 'Admissions' and ranges from 2,000 to 5,000. The X-axis represents years. The bars show the following values: 2000: 146, 2001: 137, 2002: 149, 2003: 140, 2004: 145, 2005: 144, 2006: 139.

Arranged by: Alphabetic order

Last Refresh Date: March 6, 2008 10:15:32 AM

Discussions

start

Inbox - Mi...

FW: PIA ...

CDC-OCS...

Gwinnett ...

InfoView - ...

Microsoft ...

Local intranet

100%

10:17 AM

What Does this Mean for You?

- ❖ Increased awareness
- ❖ New partners
- ❖ Improved collaboration
- ❖ Available tool
- ❖ Tracking roadmap in place
- ❖ Future directions
 - Emerging issues



"Longer term, tracking will be able to provide a real service to the American people. I can envision a day when people will be able to go to the Tracking Web site and instantly find a wealth of easily understood information about their community—on the environment, possible human exposures, and the overall health status of their neighborhood. They will be able to make informed decisions on not only where but also how they live. We still have plenty to do before we get to that point, but that's the tracking goal, and we're heading in the right direction."

Michael McGeehin, Ph.D.

**DIRECTOR, DIVISION OF ENVIRONMENTAL HAZARDS AND
HEALTH EFFECTS, NATIONAL CENTER FOR ENVIRONMENTAL HEALTH, CDC**



Questions

For more information:
www.cdc.gov/nceh/tracking



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