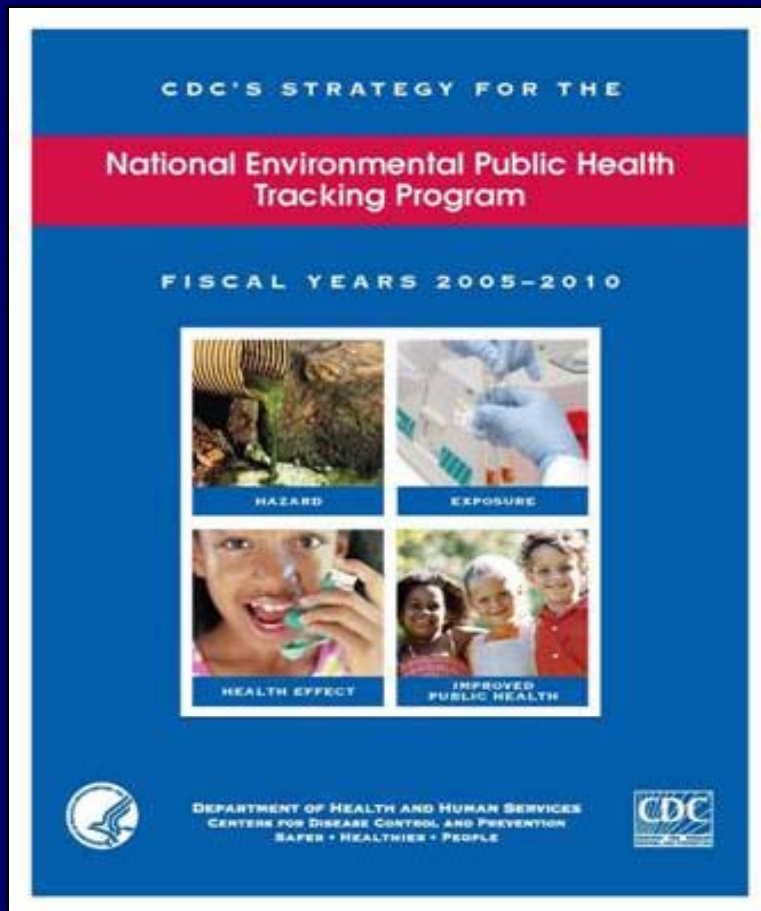


Keeping Track, Promoting Health **The National Environmental Public Health Tracking Program**

Heather Strosnider, MPH
Division of Environmental Hazards and Health Effects
National Center for Environmental Health
Centers for Disease Control and Prevention



National Tracking Program Initiated in 2002



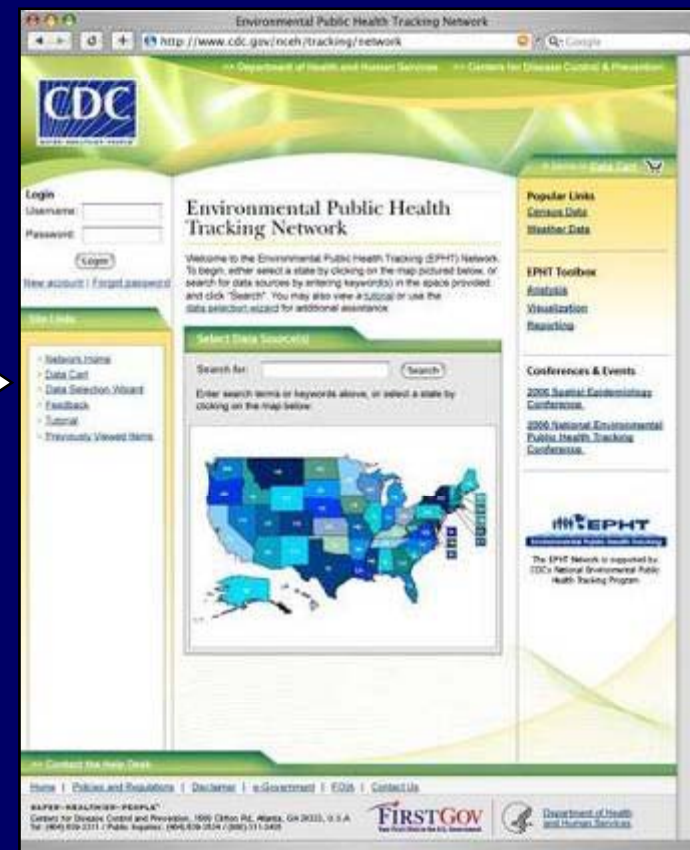
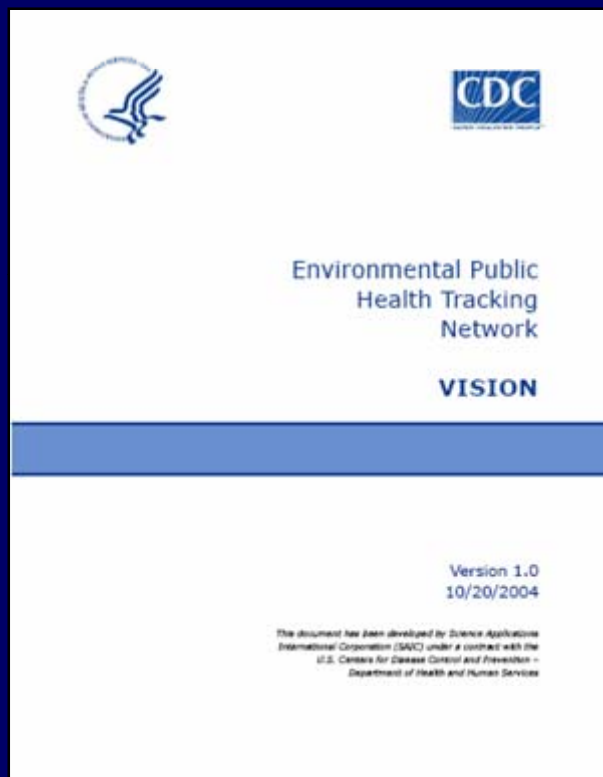
Mission:

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



2006

Planning to Implementation



Tracking Network: Going "live" in 2008!



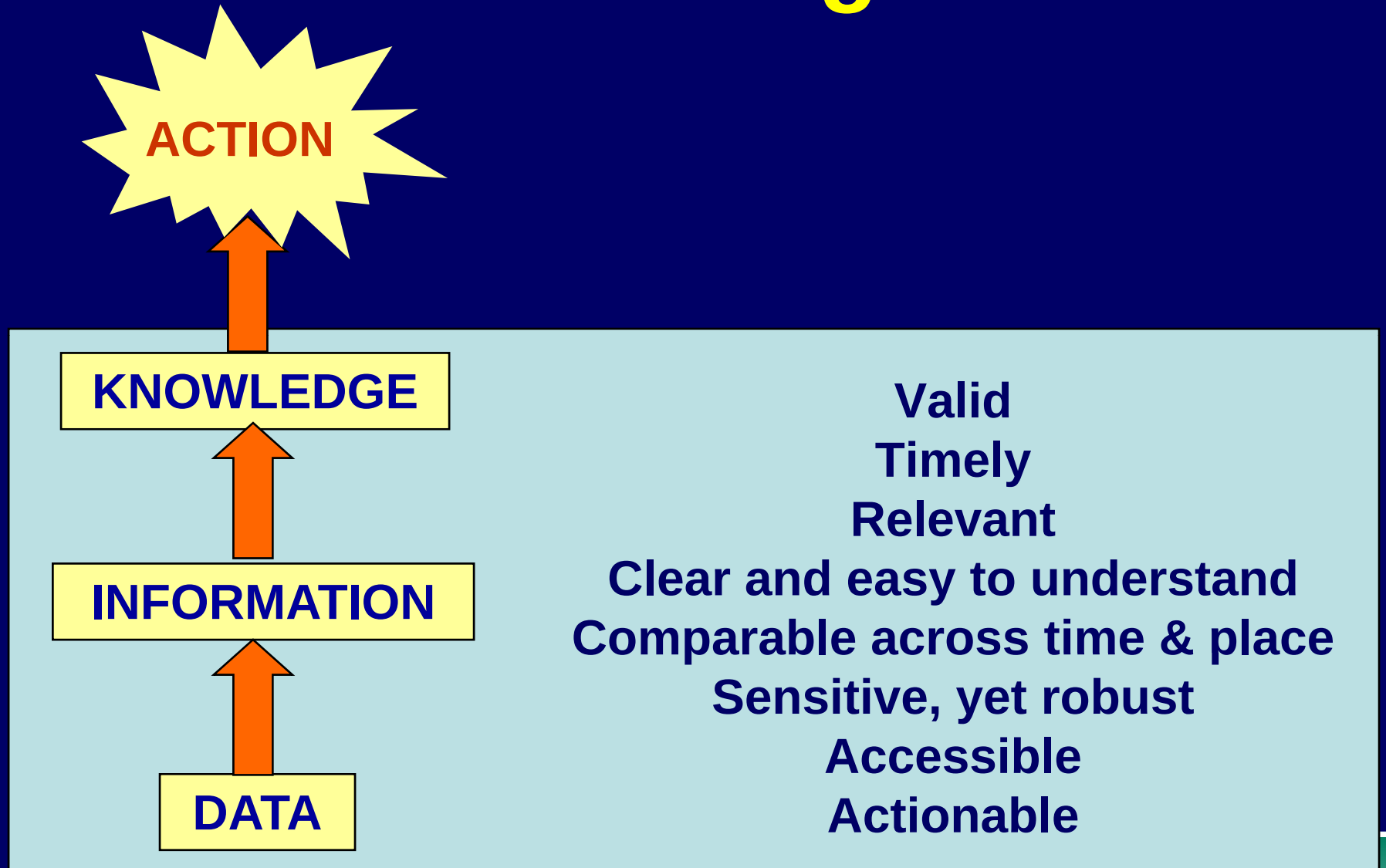
National Tracking Network

Key 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

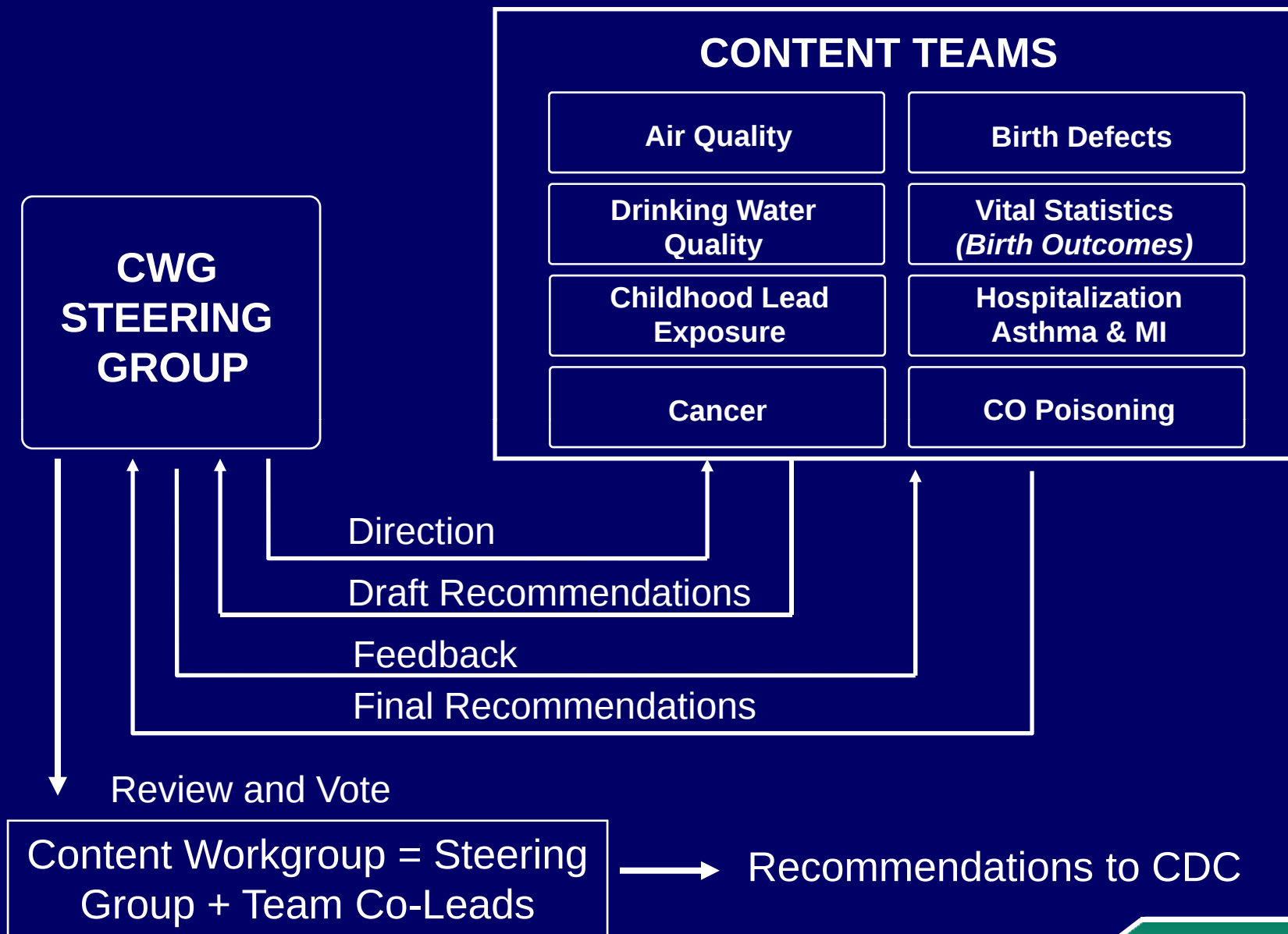


National Tracking Network



Content Development

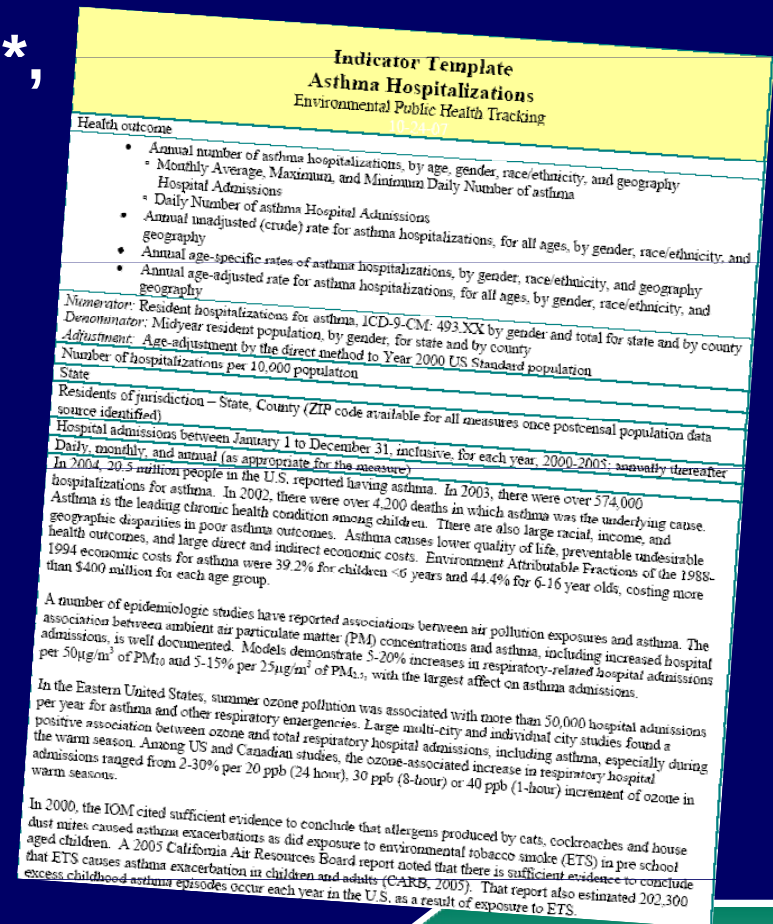




Content Workgroup

❖ NCDM recommendations to CDC

- Identify, adopt/adapt/develop*, pilot indicators/measures
 - Rationale
 - Data sources
 - Limitations
 - Future directions
 - How-to-guides
- Data to support measures
- Presentation
- Public health messages



Content Development

Indicator	Measure
Hospitalizations for Carbon Monoxide Poisoning	Annual number of hospitalizations for CO poisoning by State, County and Cause/Intent (Fire-related, non-fire related, unknown)
	Annual crude rate of hospitalization for CO poisoning per 100,000 population by State, County and Cause/Intent (Fire-related, non-fire related, unknown)
	Annual age-adjusted rate of hospitalization for CO poisoning per 100,000 population by State, County and Cause/Intent (Fire-related, non-fire related, unknown)
Emergency Department Visits for Carbon Monoxide Poisoning	Annual number of Emergency Department Visits for CO poisoning by State, County and Cause/Intent (Fire-related, non-fire related, unknown)
	Annual crude rate of Emergency Department Visits for CO poisoning per 100,000 population by State, County and Cause/Intent (Fire-related, non-fire related, unknown)
	Annual age-adjusted rate of Emergency Department Visits for CO poisoning per 100,000 population by State, County and Cause/Intent (Fire-related, non-fire related, unknown)
Carbon Monoxide Poisoning Mortality	Annual number of deaths from CO poisoning by State, County and Cause/Intent (Fire-related, non-fire related, unknown)
	Annual crude rate of death from CO poisoning per 100,000 population by State, County and Cause/Intent (Fire-related, non-fire related, unknown)
	Annual age-adjusted rate of death from CO poisoning per 100,000 population by State, County and Cause/Intent (Fire-related, non-fire related, unknown)
Reported Exposure to Carbon Monoxide	Annual number of unintentional CO exposures reported to

❖ Adopted Nationally Consistent Data and Measures

- 8 content areas
- 22 Indicators
- 118 Measures

❖ Document with indicator templates and how-to-guides will be available



Example Indicators & Measures

- ❖ Number of Days & Person-days with Maximum 8-Hr Average Ozone Concentration Over the NAAQS & Other Relevant Benchmarks (By County – where monitors exist)
- ❖ Annual number of asthma and AMI hospitalizations, by age, gender, and geography
- ❖ Potential population exposure to contaminants in finished drinking water
 - Distribution of # of people by mean DBP concentration, by quarter and year
- ❖ Incidence (Percent) of preterm births and very preterm births among singleton live born infants



Data Recommendations

- ❖ Data sets required to create measures
- ❖ Additional demographic and other variables (cause of CO poisoning)
- ❖ Contain data dictionaries, metadata examples and table shells

**CLP1: ZIP Code Birth Cohort Testing & BLLs
Childhood Lead Poisoning
Data Dictionary for Aggregate Data
Environmental Public Health Tracking**

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length
STATE	State FIPS code	String	nn	FIPS	2
ZIP CODE	ZIP codes over which events are counted	String	nnnnn U = unknown	FIPS, u	5
Year_BC	Year in which birth cohort was born	Year	YYYY	0-9999	5
Total Births	Total number of children in birth cohort	Integer	nnnnnn	0-999999	6
BLLs<10	Number of children tested with BLLs<10 µg/dL	Integer	nnnnnn	0-999999	6



Content Develop: Current Activities

- ❖ Developing public health messages
- ❖ Evaluating options for display and presentation
- ❖ Developing policies and agreements for data sharing and release
- ❖ Testing data transportation



National Public Portal



- ❖ Place to disseminate information
- ❖ Provides the public and policy makers with integrated one-stop access to health and environment information
- ❖ Allows for feedback and input from information users



National Environmental Public Health Tracking Network

Hazards and Exposures

Health Effects

Info By Location

NEPHT Home > Health Effects > Birth Defects

[About Birth Defects](#)

[Connection to Environmental Health](#)

[Risk](#)

[Prevention](#)

Select 

Birth defects are a large public health problem and affect over 150,000 children in America. About one out of every 33 babies is born with a birth defect. Birth defects are the leading cause of infant deaths and the fifth leading cause of years of potential life lost. Babies born with birth defects have a greater chance of illness and long term disability than babies without birth defects. A premature/preterm or premie, is born before the 37th week of pregnancy. Babies with Birth Defects are more likely to be born preterm than babies with out Birth Defects. Birth defects account for approximately 30% of all pediatric hospital admissions. Caring for a child with a birth defect can cost more than \$500,000 over a lifetime.

[For more information link](#)

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cdcinfo@cdc.gov

Search Birth Defects Data

Geographic Scale

State 

Location

GA 

County 

Time Period

Year 

Prevalence

Select 
 Anencephaly
 Spina Bifida (without anencephaly)
 Hydroplastic left heart syndrome
 Tetralogy of Fallot

Display Results

Map 

Advance Query  GO 

Related Birth Defect Information

[Info on Surveillance](#)

[Data Limitations](#)

[Birth Defect Measures](#)

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Under Development!

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Centers for Disease Control and Prevention, 1600 Clifton Rd, Atlanta, GA 30333, U.S.A.
 Switchboard: (404) 639-3311 / Public Inquiries: (404) 639-3534 / (800) 311-3435



Department of Health and
 Human Services

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National Secure Portal

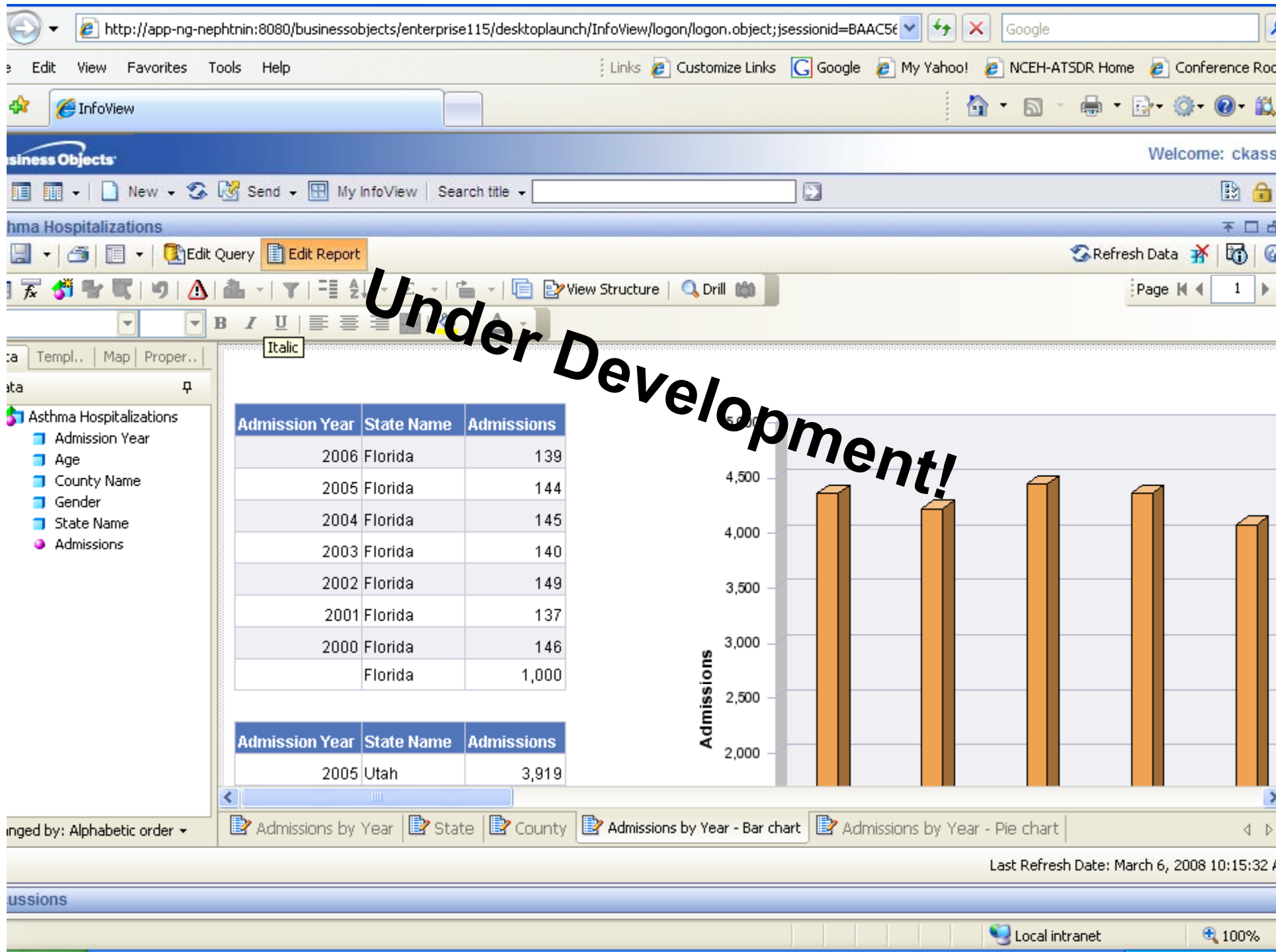
- ❖ Supports secure communication and collaboration among multiple partners
- ❖ Integrates health, exposure, hazard, and other data
- ❖ Allows for sharing of methods, tools, and ideas
- ❖ Serves as drawing board for turning data into information



National Secure Portal: 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)





National Secure Portal Access

❖ Secure Portal User

- Determined by CDC Tracking

❖ Access to restricted data

- Access to grantee provided restricted data determined by grantee
- Access to restricted data provided by national partners determined according to terms of data sharing agreement

❖ Details under development: Re-release Plan



2009 and Beyond.....

Where we're going



Data to Action

Next Steps



- ❖ Expanding the content
- ❖ Reaching local levels
 - Right to privacy vs. right to know
- ❖ Measuring exposure
- ❖ Linking health, exposure, & hazard data to measure impact
- ❖ Evaluating and increasing utility to stakeholders
- ❖ Quantifying benefit



Tracking and SEHIC

- ❖ Address “developmental” areas
- ❖ Keep pulse on priorities of state and local environmental officials & state epidemiologists
- ❖ Provide opportunity for broader vetting and testing of NCDMs





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Environmental Health

Environmental Hazards & Health Effects Program

Tracking Program

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ENVIRONMENTAL HAZARDS & HEALTH EFFECTS

National Environmental Public Health Tracking Program

IN THE SPOTLIGHT



CDC's Strategy for the National Environmental Public Health Tracking Program [PDF, 2.2 Mb]

Defines the vision, mission, and five goals that set the direction of the EPHT Program



EPHT Partnerships

Find out what organizations and agencies are working with CDC to achieve EPHT Program goals ...[more](#)



HELIX: Atlanta

Learn about development and testing of EPHT-applicable methods in 5 metropolitan Atlanta counties ...[more](#)

About the Program

Background, Vision, At a Glance, Program in Brief, Conceptual

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[Environmental Public Health Indicators Project](#)

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

Contact us: EPHT@cdc.gov

