Building Bridges: Reducing Chronic Disease in California

Linette Scott, MD, MPH
Office of Health Information and Research
Center for Health Statistics

California Conference of Local Health Officers
Semi-Annual Meeting
May 3, 2007
Common Ground

Building Bridges:
Reducing Chronic Disease in California

- Business of Public Health
- Data & Information
- Role of “The State”
- Next Steps
Common Ground: Transforming Public Health Information Systems

- More effective and efficient business processes that support essential public health services and functions
- Increased awareness about informatics principles and collaborative requirements
- Informed stakeholders at all levels of government
Chronic Disease Grantees

Grantees represent breadth of public health organizations

- California Health and Human Services Agency (CA)
- State of Minnesota Department of Health (MN)
- State of Missouri Department of Health and Senior Services (MO)
- State of Rhode Island Department of Health (RI)
- State of South Carolina Department of Health and Environmental Control (SC)
- State of Wisconsin Department of Health and Family Services (WI)
- Coconino County Health Department (AZ)
- Kitsap County Health District (WA)
- Public Health Authority of Cabarrus County (NC)
- Louisiana Public Health Institute (LA)
Common Ground Steps

Year 1
What do we do now?
Business Process Analysis

Year 2
What should we do?
Business Process Redesign

Year 3
How do we do this?
Requirements Definitions
Common Ground Expectations

- Training and Planning for Public Health Informatics and Business Processes
- Create roadmap (requirements) to help define functionality needed from a chronic disease information system
  \[(\text{Independent of disease})\]
Common Ground Process

National Collaborative
  • Define the Business Processes in Public Health in relation to Chronic Disease
  • Contribute our experience and knowledge
  • Participate in mutual decisions of group

California
  • Focus on Business Processes with respect to data and information needed for Chronic Disease at the state and local levels

Both processes in parallel
California Vision

To ensure broad systematic access to standards-compliant, secure, geographically-referenced information about Californians affected by chronic disease.
1) Define the **business processes** required to address information needs for chronic disease prevention, control, and evaluation

2) Describe **current data systems** for chronic disease and how well they support the above business processes

3) Create a means for providing **informatics training** for the CDHS and all other CHHSA departments
CHHSA – Year 1

Work with the CDHS Data Resource Inventory conducted last year to:

• **Work toward the data**  
  (Data fields collected, documentation, definitions, use restrictions, associated policies, etc.)

• **Work toward the business case**  
  (How do we use the data, what data do we use, what data do we wish we had, can we find and obtain the data we have)

• **Expand to include data throughout Agency**  
  (Build on California Healthcare Information Inventory conducted as part of CHIPP funded by RWJF)
Defining our Business

- Understanding what we do
  - Finding Common Ground

- Paradigm Shift
  - Changing how public health describes its work

- Public health as a bi-directional information broker
Building Understanding

Common Ground

- **Institutionalized**
  - Positive reinforcements, rewards
  - Participation in teams, focus groups, reviews
  - Focused discussions, workshops
  - One-on-one communications, dept./staff meetings, education
- **Stage of Enrollment**
  - Advocacy & Ownership
  - Understanding
  - Support & Buy-in
  - Commitment & Action
- **Internalized**
  - Successful implementation, adoption
  - Invest resources and personal time, lead others
  - Positive personal perception and disposition toward change
  - Comprehension of nature, reasons and intent of the change
  - Awareness that change will take place and how it will affect them

**Desired Outcome**

- **Early in Implementation**
- **Common Mechanisms**
  - Printed publications, newsletters, e-mail, informational briefings

**Success**

**Commitment & Action**

- Positive personal perception and disposition toward change
- Comprehension of nature, reasons and intent of the change

**Support & Buy-in**

- Awareness that change will take place and how it will affect them

**Understanding**

- Awareness

**Advocacy & Ownership**

- Advocacy & Ownership
- Support & Buy-in
- Commitment & Action
- Understanding
- Awareness
- Early in Implementation
- Common Mechanisms
- Desired Outcome
The Automation of Information

- Giving you the system that allows you to find the answers you need
- Developing methods for judging if information systems support the work you do
- Streamlining systems to reduce redundancy and improve quality
Public Health Informatics - the systematic application of information and computer science and technology to public health practice, research, and learning (Public Health Informatics and Information Systems, 2003)

Public Health Mission - “Fulfill society's interest in assuring conditions in which people can be healthy.” (IOM, 1998)

Public Health Core Functions - Assessment, Policy Development, Assurance (IOM, 1998)
Data & Information

**Data** - A measurement or characteristic of the person or the thing that is the focus of an information system

**Information** - Data placed in context with analysis

- Data Sources – Collection
- Data Systems – Transferring & Delivering
- Business Needs – Using & Deciding
Data Circle

Data Collection

Develop Interventions
Evaluate Interventions

Informatics

Improve Quality of Data
Improve Access to Care

Data Analysis

Feedback Data to Sources

Transparency of Data to Customers
Why Focus on Data …

Evidence-Based Decisions

Program Placement

Improve Quality through Increased Transparency

Do you have the Data and Information you need?
Moving into the Future

- Need for timely, accurate information
- Real-time strategic decisions in place of reactionary-delayed decisions
- New data sources in Electronic Health Records & Health Information Exchange Efforts
- Public Health as an Information Broker
- Support funding that is not disease specific
- Engage vendor support through collaborative requirements definitions to develop needed products
The Information Process

- Data Collection
- Data Organization & Processing
- Data Analysis Methodology
- Perform Data Analysis
- Communicate & Disseminate Information
- Workforce & Staff Skills
New Relationships

• Common Ground Program is building new relationships

• Partners outside of the traditional public health

• Interweaving of public health with clinical care to improve individual care and decrease overall burden of disease
“The State” Role

Goal
Secure, web-based, role-based system that facilitates clinical information and public health information to the right people at the right time

- Best practices
- Standards setting and creation
- Facilitation
- Coordination
- Leadership
Next Steps

- Staffing to support new functions
- Training for current and new staff
- Participation with standard setting groups
- Re-evaluate public health business processes
- Use Common Ground to improve our infrastructure
Common Ground

- Building Bridges: Reducing Chronic Disease in California
- Business of Public Health
- Data & Information
- Role of “The State”
- Next Steps
Thank you!

Common Ground
Building Bridges: Reducing Chronic Disease in California

Questions?

Linette Scott
lscott@dhs.ca.gov