

INFORMATICS & CPWI

IMPLEMENTATION & SUSTAINABILITY

6/28/2017

DBHR Summer Institute

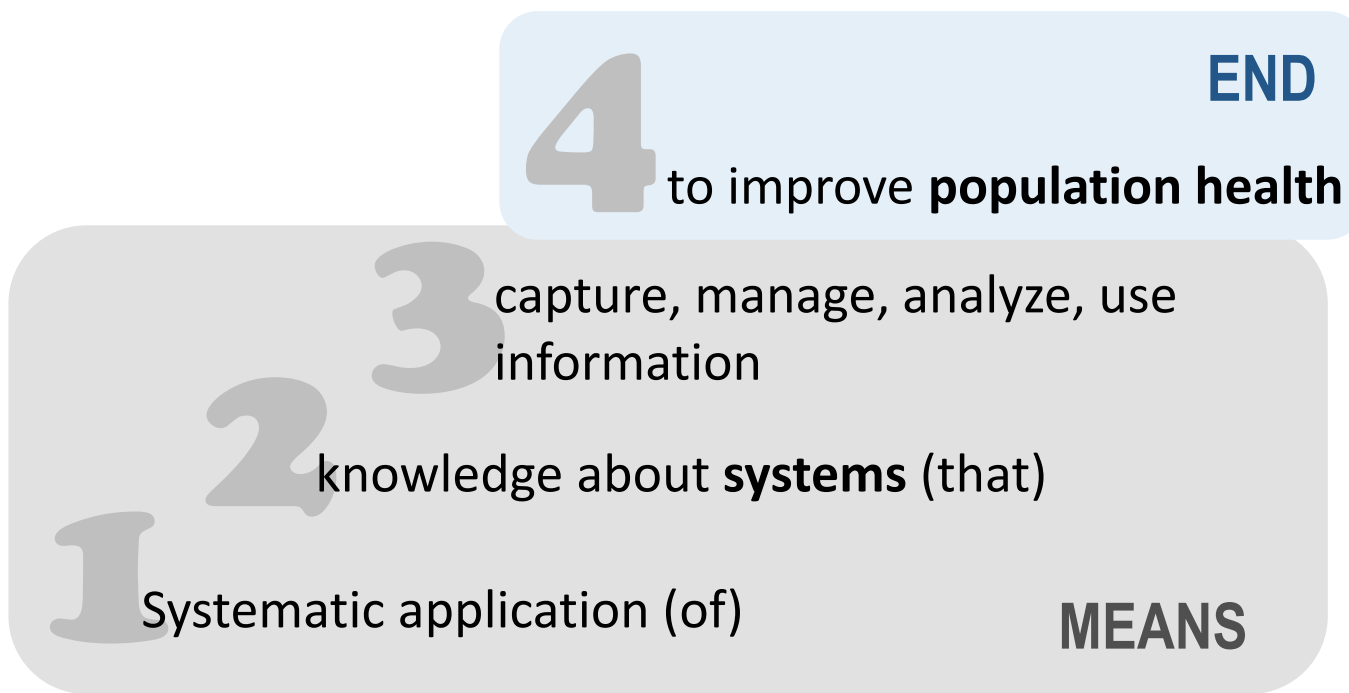


Whatcom County
HEALTH
Department




Ferndale Community Coalition

WHAT IS PUBLIC HEALTH INFORMATICS?



PHIFP definition

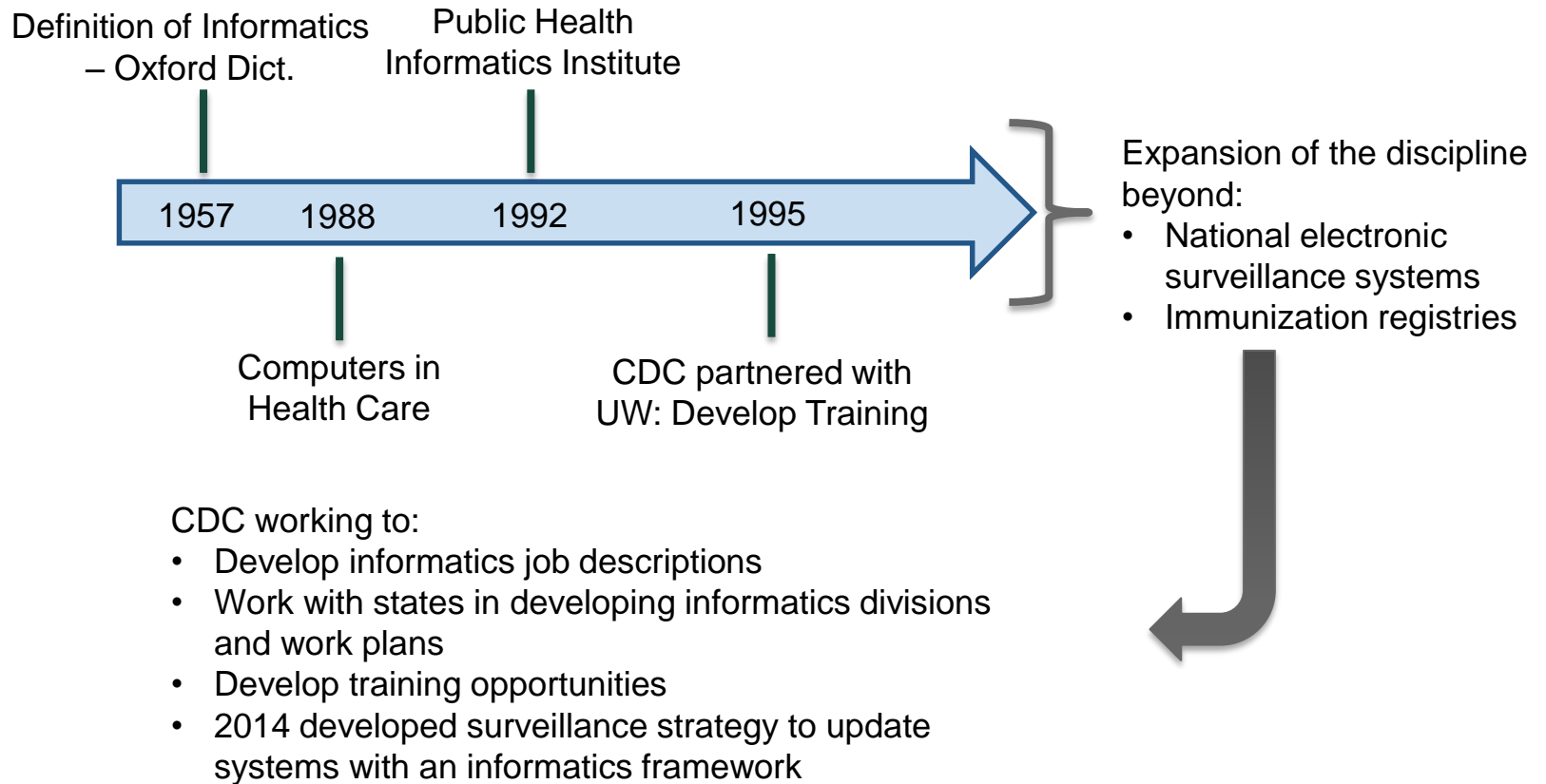
MORE DEFINITIONS....



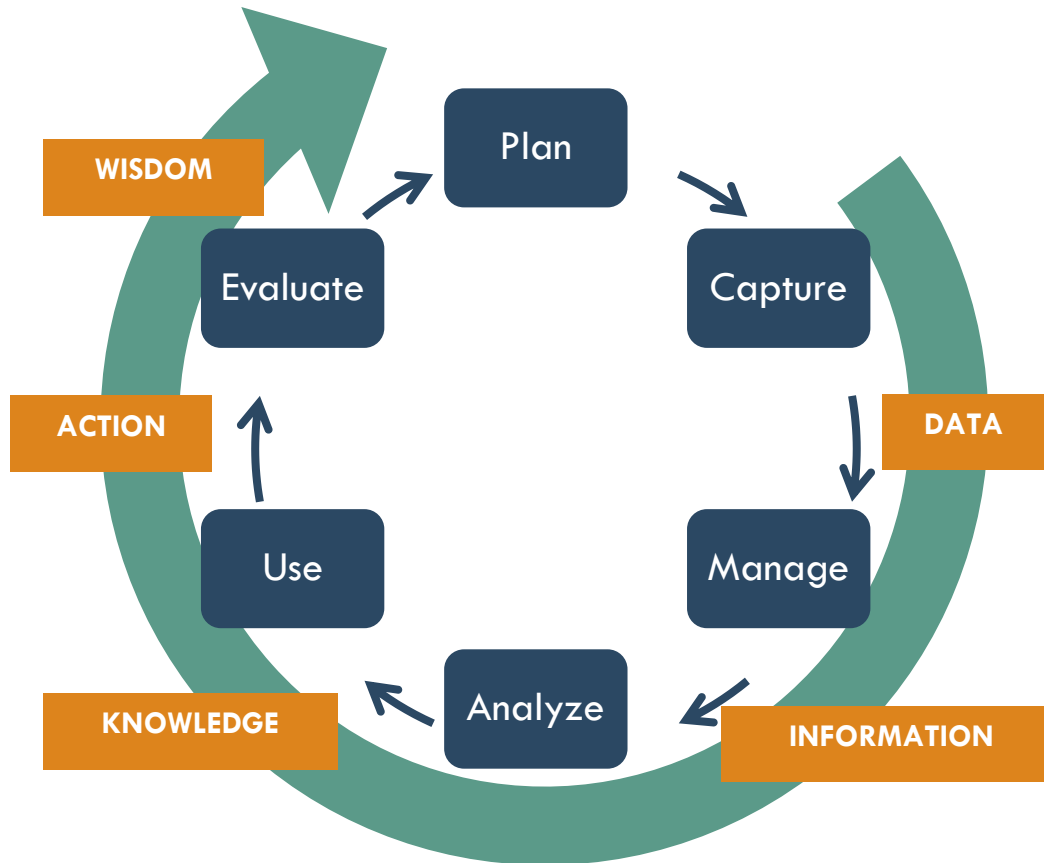
Public health informatics is defined as the systematic application of information and computer science and technology to public health practice, research, and learning. (Yasnoff et al. 2000)

Public health informatics is the systematic application of knowledge about systems that capture, manage, analyze and use information to improve population health. (APHIF, Project SHINE)

BRIEF HISTORY



INFORMATION VALUE CYCLE



AN AGENCY THAT VALUES INFORMATION

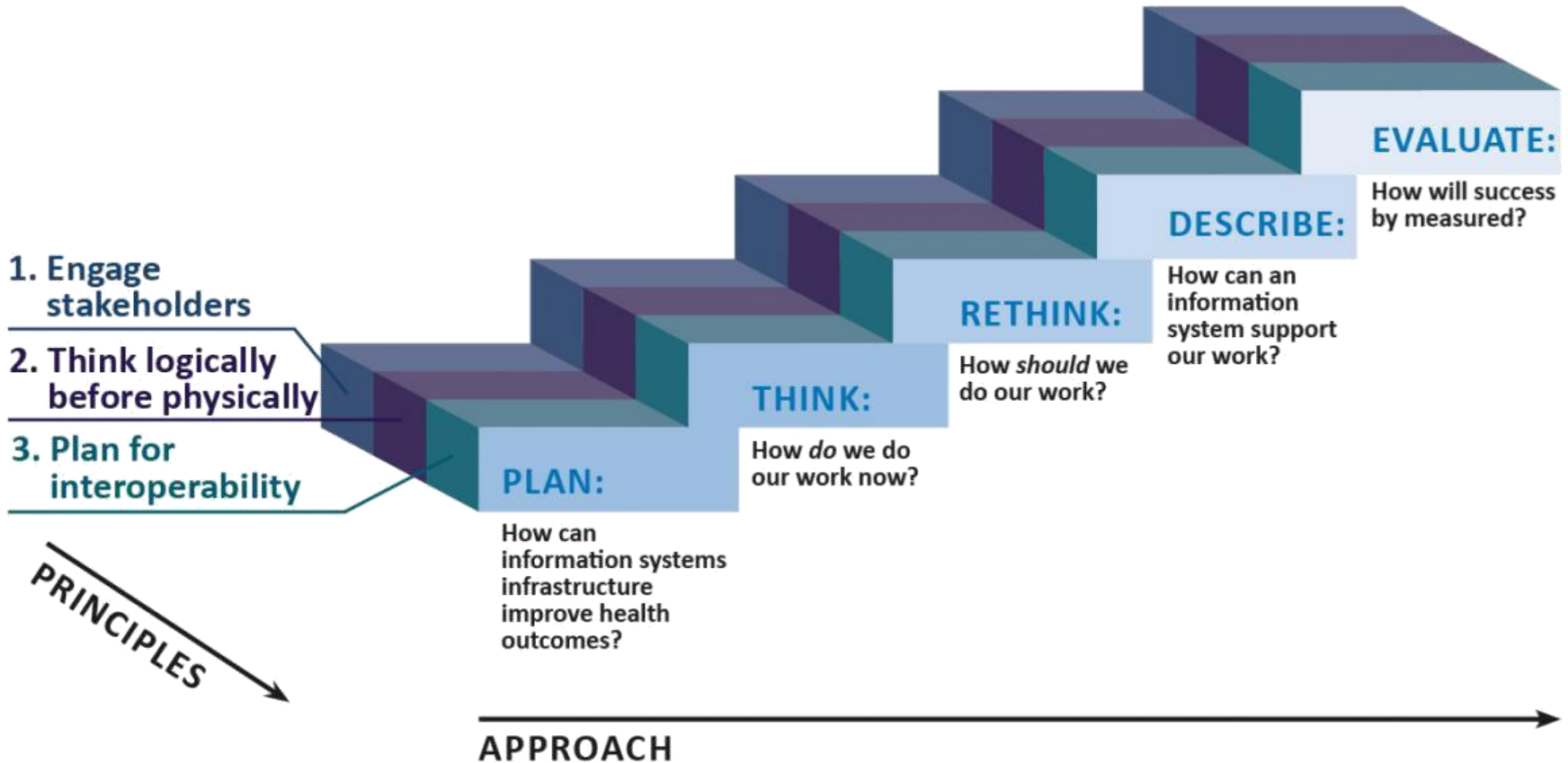
- Increases program effectiveness
- Promotes data-driven decision making
- Promotes continuous system improvement
- Prevents downstream informatics problems
- Develops economies of scale and scope
- Increases effectiveness of information systems
- Reduces program costs



Public Health Knowledge Architects

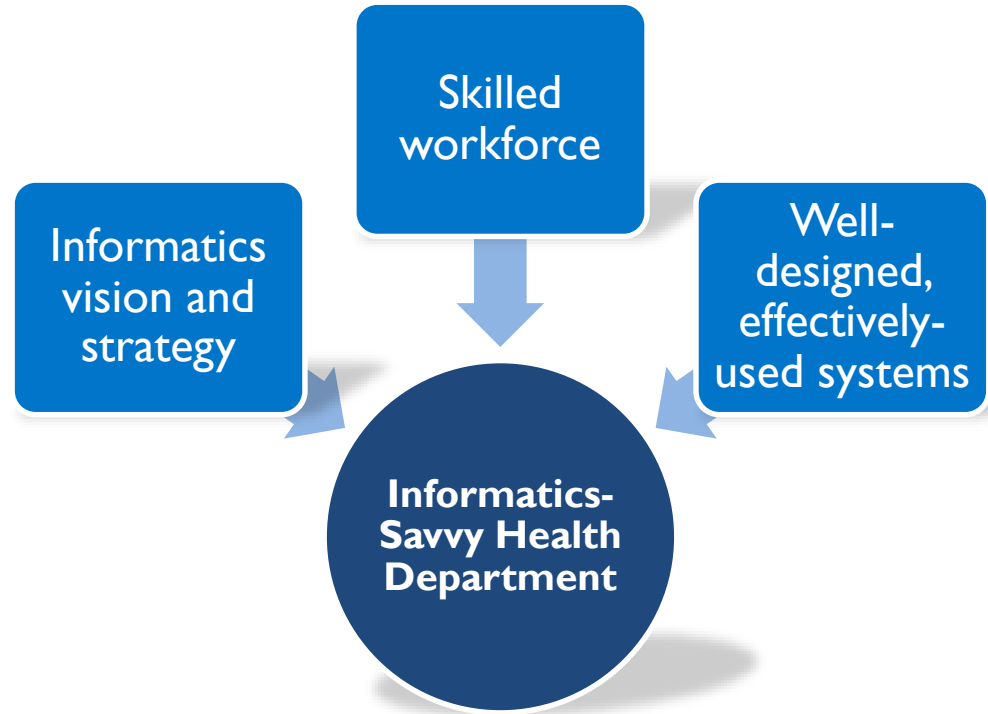
Just as architects plan buildings with the needs of a community in mind, informaticians plan data systems that produce the information professionals need to make sound public health decisions.

STRATEGIC APPROACH TO HEALTH INFORMATION SYSTEMS



WCHD INFORMATICS FRAMEWORK

An **Informatics-Savvy Health Department** is one that has an overall vision and strategy for how it uses information and information technology as strategic assets, supports a skilled workforce and has well-designed and effectively used information systems. (Public Health Informatics Institute)








Public Health Accreditation Board

STANDARDS & Measures

VERSION 1.0
APPLICATION PERIOD 2011-2012
APPROVED MAY 2011

Sustain	Connect	Transform
 <p>We provide critical infrastructure</p> <p>Our five-year goals:</p> <ul style="list-style-type: none"> • Our workforce is fully supported and highly engaged • Foundational public health capacities and programs are fully funded • Data and compassion drive our decisions 	 <p>We engage the community</p> <p>Our five-year goals:</p> <ul style="list-style-type: none"> • Community voice informs our work • Health information is dynamically communicated • Diverse partner relationships are built and strengthened 	 <p>We drive policy changes</p> <p>Our five-year goals:</p> <ul style="list-style-type: none"> • Health is prominent in community policy • Policy agendas reflect community health priorities • Policy makers are informed and engaged

**Whatcom County Health Department
Strategic Priorities**

With these strategic priorities and five-year goals as our guideposts, WCHD establishes a Work Plan every two years with specific, measurable objectives.

2012-2016

our community

Community Health Improvement Plan

WHATCOM COUNTY

Update
September
2016



July 2015 I-TIPP
Fellowship (Nicole)

July 2016 I-TIPP
Fellowship (Amy)



Conception of Informatics Team

- Assessment
- Team trainings and skill building
- Defining work plan

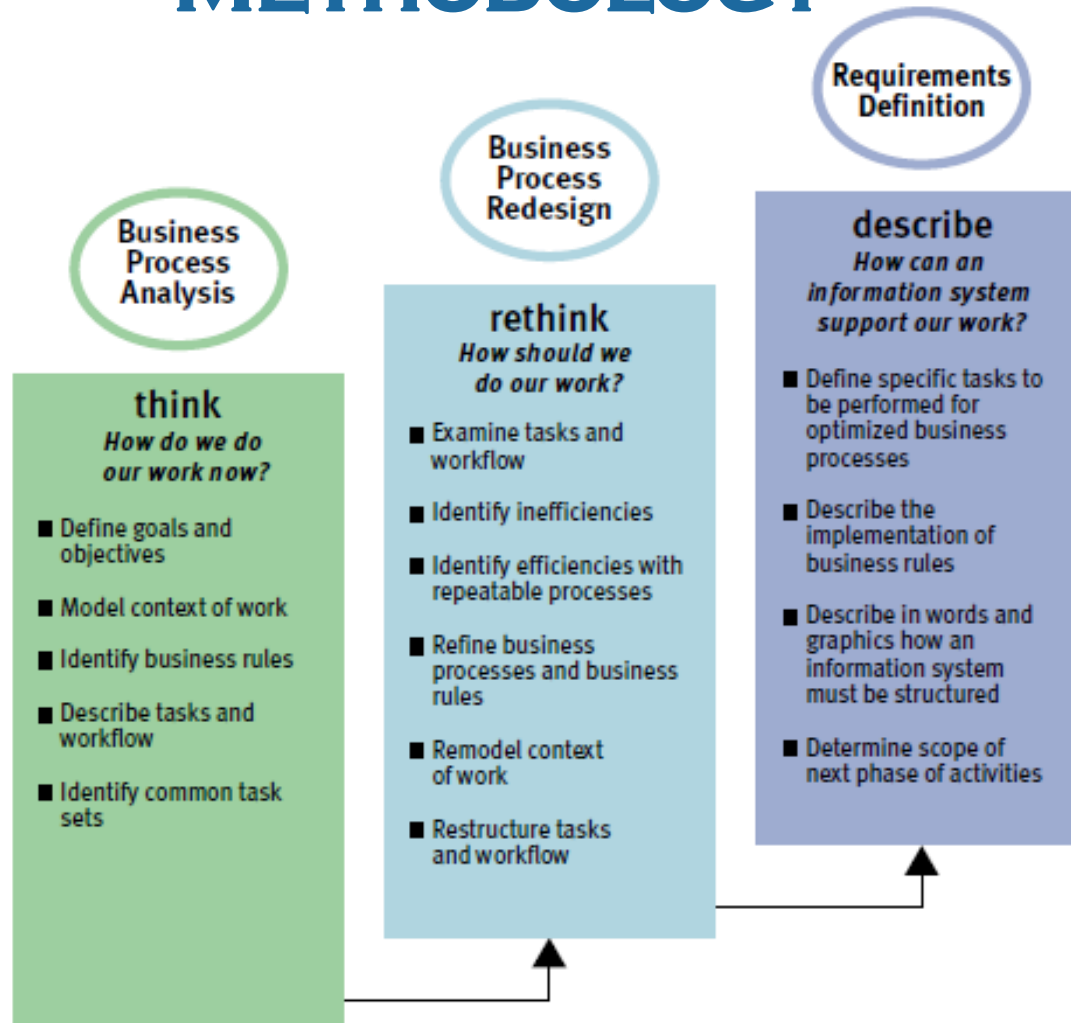
STRENGTHENING HEALTH SYSTEMS THROUGH INTERPROFESSIONAL EDUCATION



MISSION

Advance local and state health departments' involvement in health systems transformation by training the current and future public health workforce to use data to mobilize communities and improve health outcomes.

COLLABORATIVE REQUIREMENTS DEVELOPMENT METHODOLOGY



COLLABORATIVE REQUIREMENTS DEVELOPMENT METHODOLOGY

Business Process Analysis

think

*How do we do
our work now?*

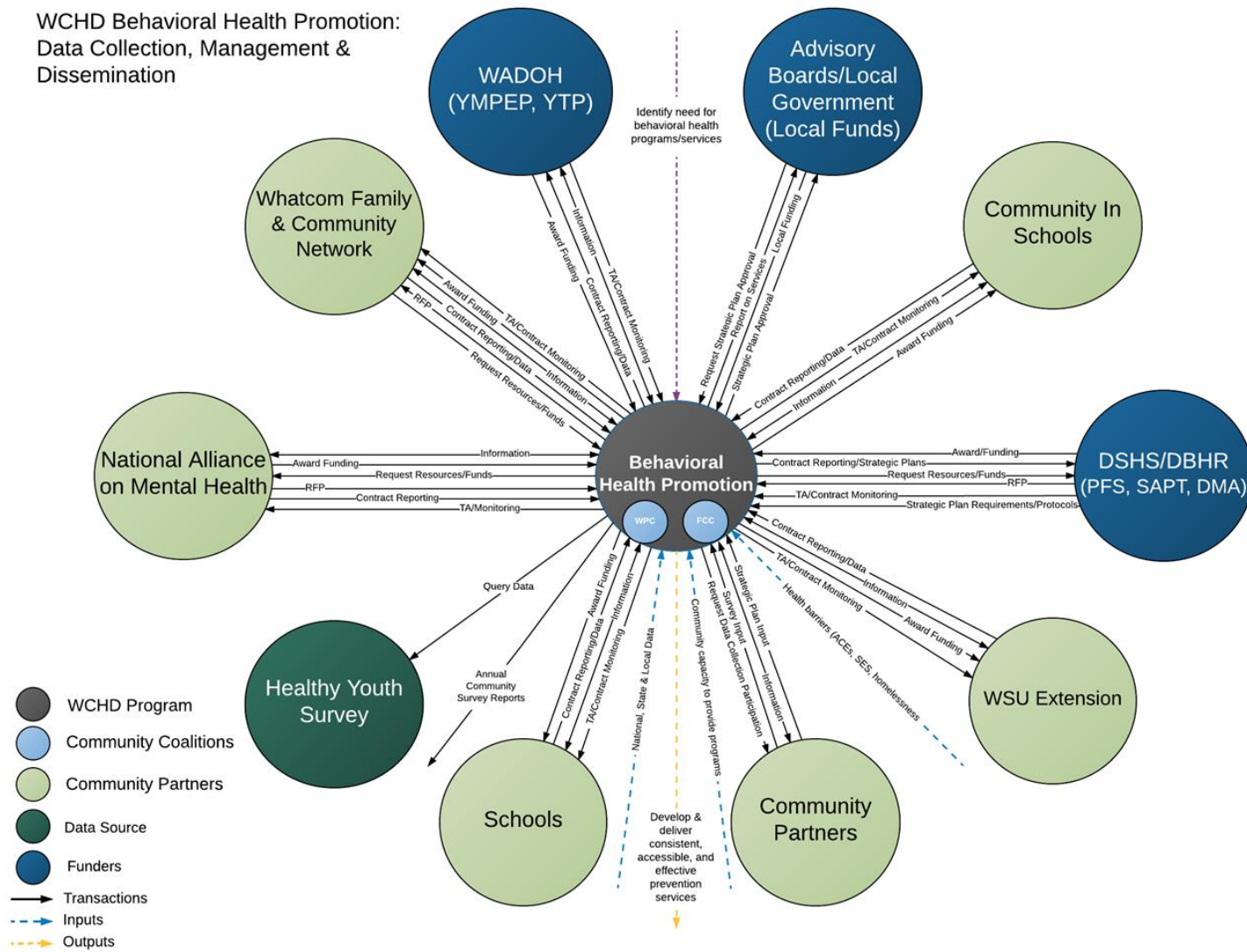
- Define goals and objectives
- Model context of work
- Identify business rules
- Describe tasks and workflow
- Identify common task sets

Tools

- Context Diagrams
- Business Process Matrix
- Issue Management Registers

CONTEXT DIAGRAMS

WCHD Behavioral Health Promotion:
Data Collection, Management &
Dissemination



BUSINESS PROCESS MATRIX/LOGIC MODEL

Program	Behavioral Health Promotion
Program Goal:	Promote healthy children and families by decreasing the impact of substance use and mental health issues
Contribution to WCHD Population Results:	Children and adults are physically and mentally healthy. Families are strong and self-sufficient.
Program Staffing:	FTE Program Specialist, Joe Fuller, Program Specialist, Amy Hockenberry, Program Supervisor, Perry Mowery

Program Objectives	Key Business Process	Performance Standards (Business Rules)	Inputs	Activities (Task Set)	Outputs	Program Measures
Work collaboratively to increase community access to effective behavioral health programs and services.	Delivery of Behavioral Health Promotion Programs & Services	<p>PHAB Standards:</p> <p>4.1 Engage with community to id & address health problems</p> <p>7.1 Assess service capacity and access to services</p> <p>7.2 Identify and Implement strategies to improve access to health care</p> <p>10.1 Use Evidence-based practices</p> <p>Contract Requirements: DSHS/DBHR Prevention Services United General – Marijuana Prevention</p> <p>Professional Standards: Strategic Prevention Framework</p> <p>Laws/Other: HIPAA</p> <p>Advisory Board: Behavioral Health Advisory Board</p>	<p>Resources:</p> <ul style="list-style-type: none"> Community capacity to provide programs/services Youth barriers (ACEs, low SES, homelessness) <p>Partnerships:</p> <ul style="list-style-type: none"> Schools Youth-serving organizations Whatcom Family & Community Network Law enforcement Civic & volunteer groups Healthcare professionals Organizations involved in reducing SA/MH promotion Media Business Community Tribal government Parents Youth <p>Data Systems:</p> <ul style="list-style-type: none"> HYS DSHS Data Books, Risk Profiles Minerva Community Survey Data CHAT NIDA 	<ol style="list-style-type: none"> Identify need for behavioral health programs/services Assess community for resources and capacity Develop (select) programs/services with community partners Determine partner's capacity to deliver selected programs Build and finalize contracts with partner organizations Support the coordination of and build community capacity to deliver programs and services Monitor programs & services for effectiveness Support and coordinate the community's capacity to manage any changes 	<ul style="list-style-type: none"> Contract Reporting Survey Input DBHR Strategic Plans Leadership Boards/Local Government Reports on services Develop and deliver consistent, accessible, and effective prevention services 	<p>Short Term/ Process Outcome: Community In Schools (CIS)</p> <ul style="list-style-type: none"> # of youth served <p>Strengthening Families</p> <ul style="list-style-type: none"> # of families served # of programs delivered <p>WFCN/NAMI/Coalitions</p> <ul style="list-style-type: none"> # of events # of partners involved <p>Medium Term/Results Outcome: Community In Schools (CIS)</p> <ul style="list-style-type: none"> Increase student attendance Increase in grades Decrease in discipline <p>Strengthening Families</p> <ul style="list-style-type: none"> Pre- & posttest results <p>WFCN/NAMI/Coalitions</p> <ul style="list-style-type: none"> Increased partnerships Coalition Assessment Tool <p>Long Term/Is anyone better off? Healthy Youth Survey</p> <ul style="list-style-type: none"> 30-day use of alcohol 30-day use of marijuana Report of depression in last 12 months Report of anxiety over the last 2 weeks

ISSUE MANAGEMENT REGISTER



Issue Management Register

Project Name:		Program Manager:				Project Manager:			
	When	What				Who	When		Other
#	Date Raised	Issue Description	Impact of Issue	Selected Solutions	Priority	Issue Owner	Due Date	Issue Status	Comments
1								Not Started	
2								Not Started	
3								Not Started	
4								Not Started	
5								Not Started	
6								Not Started	
7								Not Started	
								Not Started	

BUSINESS PROCESS MATRIX/LOGIC MODEL

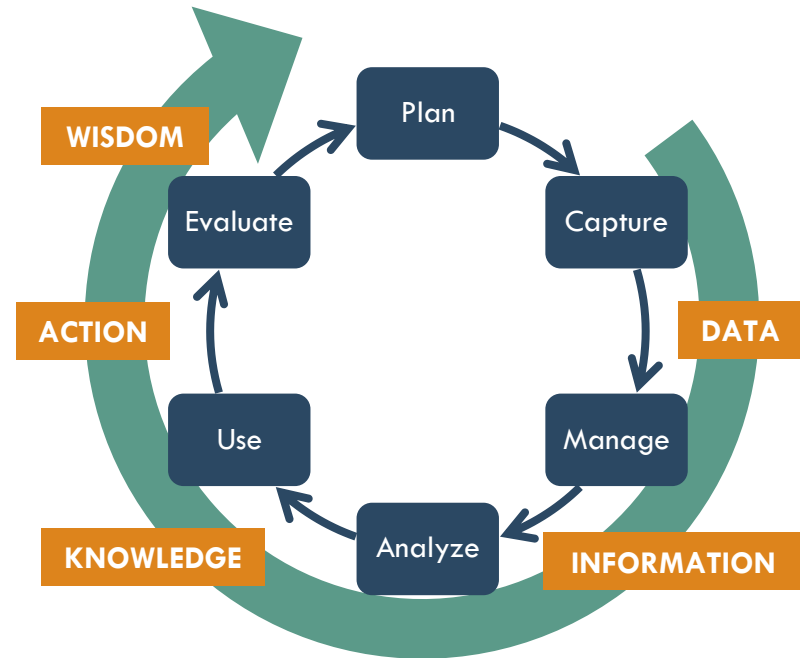


Program/Activity	The name of the program
Program/Activity Goal:	Explains how the program supports one or more of the directions of the public health organization. Use the Summary Purpose Statement ¹ from the 2017-2018 Budget Inventory of Services or write your own
Contribution to Coalition Results:	Select which Coalition Strategic Plan Desired Results does this program/activity, in conjunction with other public and private partners, contribute to?
Program Staffing:	List positions and staff member names who are part of the program

Program Objectives	Key Business Process	Performance Standards (Business Rules)	Inputs	Activities (Task Set)	Outputs	Program Measures
A concrete statement describing what the program seeks to achieve. A well-worded objective will be SMART: Specific, Measurable, Attainable/Achievable, Realistic, and Time Bound	Name for the group of activities that support this objective. There may be more than one.	A set of criteria that defines or constrains some aspect of the program. Business rules are intended to assert structure or to control or influence the behavior. Examples include: PHAB Standards: Contract Requirements: Professional Standards: Laws/Other: Advisory Board:	Information received by the program from external sources. Inputs are not generated within the program. Resources: Partnerships: Data Systems:	The key set of activities that are carried out by program staff.	Information transferred out from a process.	Short Term/ Process Outcome: Example: Medium Term/Results Outcome: Example: Long Term/Health Status Indicator/Is anyone better off? Example:

Examples

- Strengthening Families Program
- Coalition Sustainability



RESOURCES

- Public Health 3.0: A Call to Action to Create a 21st Century Public Health Infrastructure, U.S. Department of Health and Human Services. 2016.
- [Building an informatics-savvy health department: part I](#), vision and core strategies. LaVenture M1, Brand B, Ross DA, Baker EL. J Public Health Manag Pract. 2014 Nov-Dec;20(6):667-9.
- [Building an informatics-savvy health department II](#): operations and tactics. LaVenture M1, Brand B, Ross DA, Baker EL. J Public Health Manag Pract. 2015 Jan-Feb;21(1):96-9.
- [Making Public Health Informatics Visible: Communication an Emerging Field](#), FrameWorks Institute, September 2015.
- [Common Ground: Public Health Preparedness Toolkit](#): Tools and Methodology for Business Process Analysis and Redesign, Public Health Informatics Institute. 2011.
- [Taking Care of Business: A Collaboration to Define Local Health Department Business Processes](#), Public Health Informatics Institute. 2006.
- Informatics & Interoperability Roadmap, Washington State Department of Health. 2016.

QUESTIONS & THANK YOU

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