

December 15,2016
Oklahoma State Capitol
House of Representatives RM 206

## **Meeting Agenda**

- Welcome and Introduction
- Opening Remarks
- Introduce Health 360 Initiative Program Objectives
- Obesity in Oklahoma State Financial Investment and Health Burden
- Compendium of Research
- Statewide Inventory
- Timeline and Deliverables
- Wrap Up and Next Steps



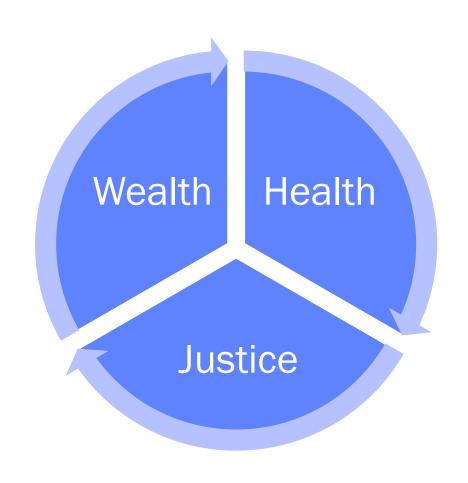
## **Meeting Objectives**

- Introduction of the Health360 Initiative
- Introduce Obesity as the first health priority for Health360
- Review of state budget and burden of obesity
- Discuss compendium of research and evidence
- Discuss statewide inventory and function
- Discuss next steps and project timeline



### What Is Health 360?

- Governor's health improvement initiative
- Requires a multi-agency collaborative approach
- Work toward common set of health outcomes
- Uses Health in All Policies Approach (HiAP)





### **Health In All Policies**

- Health in All Policies is a collaborative approach to improving the health of all people by incorporating health considerations into decision making across sectors and policy areas.
- Recognizes health is created by a multitude of factors beyond healthcare and beyond the scope of traditional public health activities.

## **Sectors (Factors) that Impact Health**

- Transportation
- Food and Agriculture
- Housing
- Economic Development
- Education
- Workplaces
- City Planning & Development
- Water
- Tourism & Recreation
- Nutrition and health



### **Phases of Work**

Establish

Priority Health
Topics

Policy
Inventory

CN Create

Priority Health
Base

CN Create

Priority Health
Base

CN Create

Priority Health
Base

CN Compare

Inventory to

Evidence

Base

CN Compare

Inventory to

Evidence

Evidence



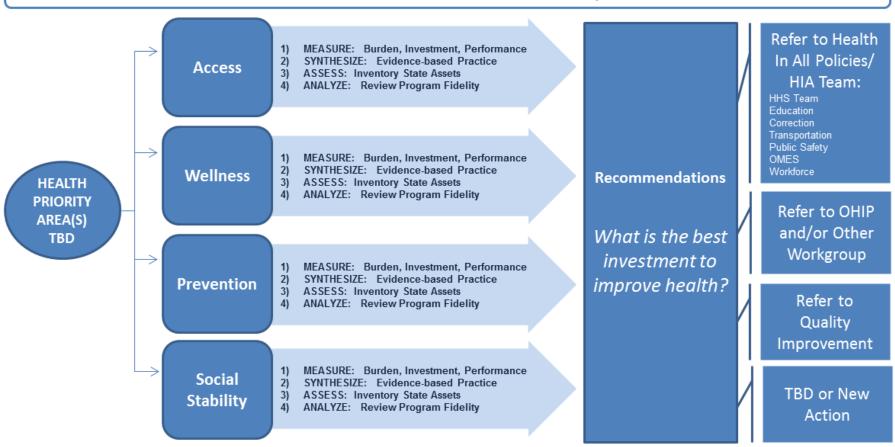
### Healthy Citizens and Strong Families Julie Cox-Kain Deputy Secretary of Health and Human Services

Life expectancy

Healthy Life Expectancy

Years of Potential Life Loss

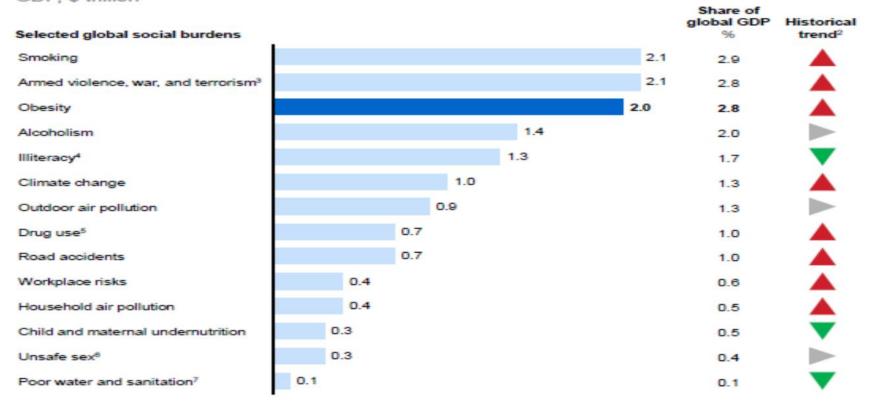
### Process for Evaluation of Health Priority Areas

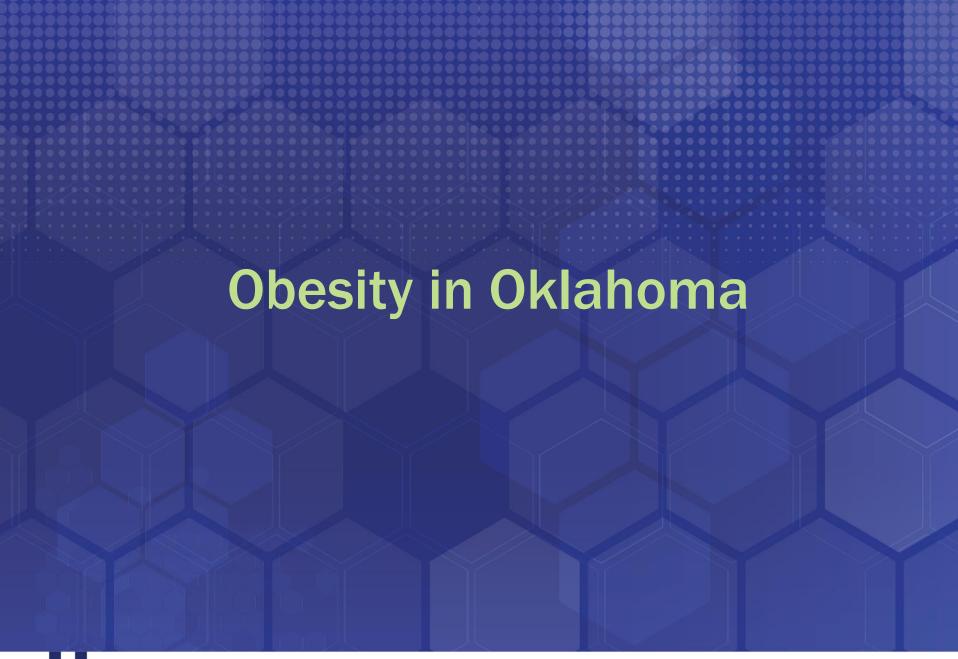


## Top Global Social Burden Generated by Humans

Obesity is one of the top three global social burdens generated by human beings

Estimated annual global direct economic impact and investment to mitigate selected global burdens, 2012<sup>1</sup> GDP, \$ trillion





## **Financial Investment-Obesity**

Oklahoma State Stat

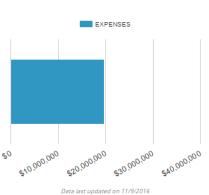
http://okstatestat.omes.acsitefactory.com/Health/Obesity

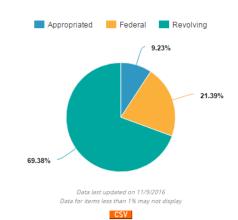


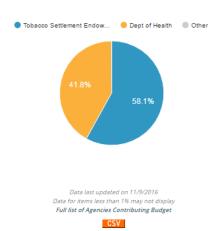
## Financial Investment: Obesity Statewide Program on OKStateStat













HOME / HEALTHY CITIZENS AND STRONG FAMILIES / OBESITY



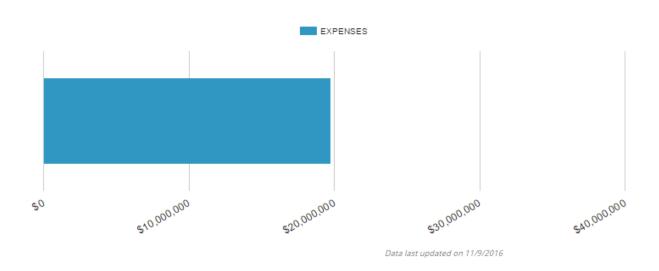
### **Obesity**

Refers to the efforts that the State of Oklahoma is making to both promote healthy nutrition and physical activity behaviors and improve health outcomes related to overweight and obesity.

\$28.4M

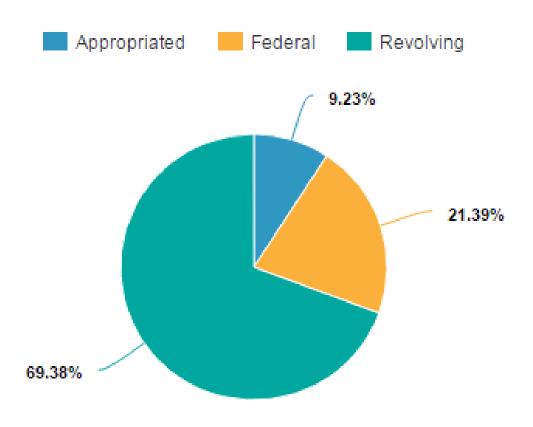
**FISCAL YEAR 2016 BUDGET** 

#### **Year-to-Date Expenses**





### Fiscal Year 2016 Budget by Funding Source



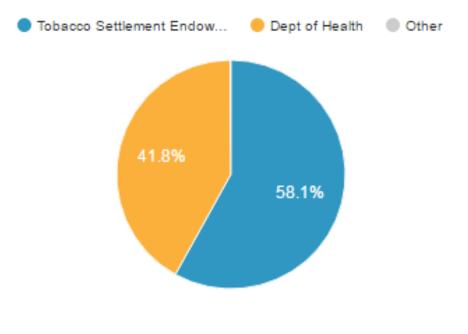
Data last updated on 11/9/2016

Data for items less than 1% may not display





### **Agencies Contributing Budget**



Data last updated on 11/9/2016

Data for items less than 1% may not display

Full list of Agencies Contributing Budget

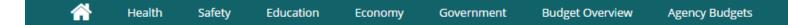


# Agencies Contributing Budget

Agency Name	Budget	
Dept of Agriculture Food & Forestry	\$32,553.48	
Dept of Health	\$11,892,162.24	
Tobacco Settlement Endowment Trust	\$16,506,255.35	
	\$28,430,971.07	

Data last updated on 11/9/2016



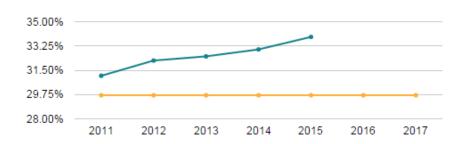


### **Adult Obesity**

Decrease the percentage of adults who are obese from 32.2% in 2012 to 29.7% by 2017.

Today: 33.9%Target: 29.7%

Learn More

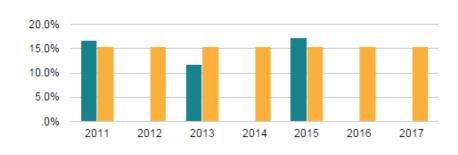


### **Adolescent Obesity**

Decrease the percentage of adolescents who are obese from 16.7% in 2011 to 15.5% by 2017.

Today: 17.3%Target: 15.5%

**Learn More** 





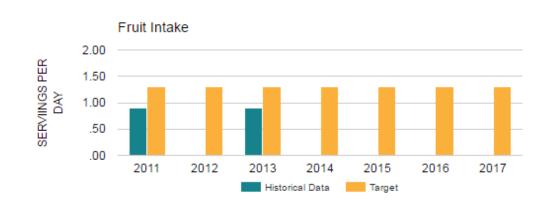
### **Fruit Intake**

Increase the median intake of fruits from 0.9 times per day in 2011 to 1.3 times per day by 2017.

Today: 0.9 times per day

• Target: 1.3 times per day

**Learn More** 



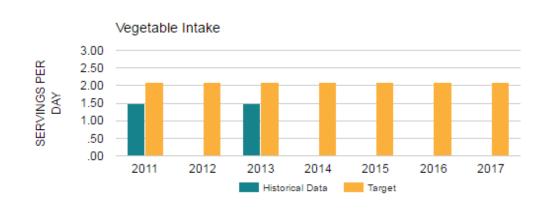
### Vegetable Intake

Increase the median intake of vegetables from 1.5 times per day in 2011 to 2.1 times per day by 2017.

• Today: 1.5 times per day

• Target: 2.1 times per day

**Learn More** 





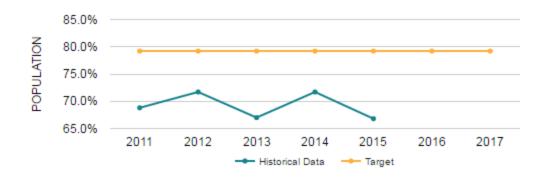
### **Physical Activity**

Increase the percentage of the population that have participated in any physical activity in the last 30 days from 71.7% in 2012 to 79.2% by 2017.

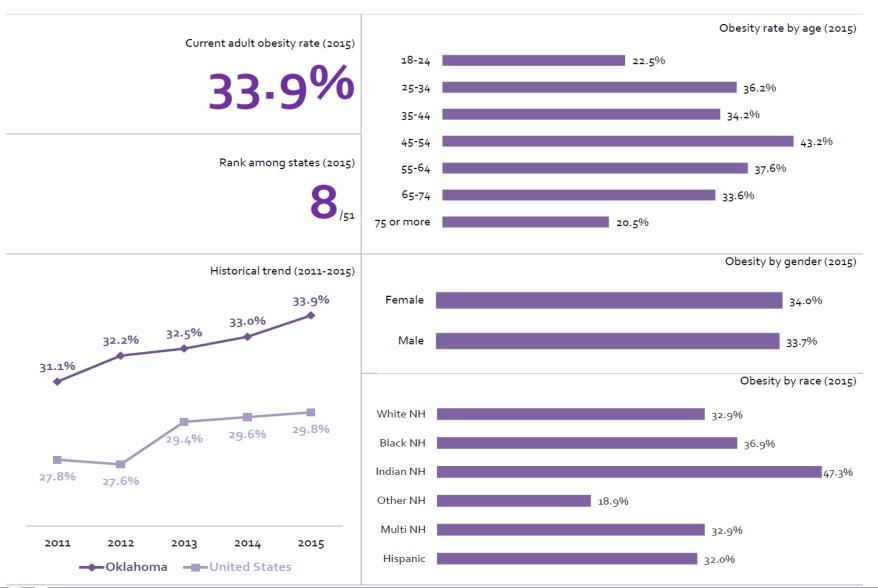
• Today: 66.8%

• Target: 79.2%

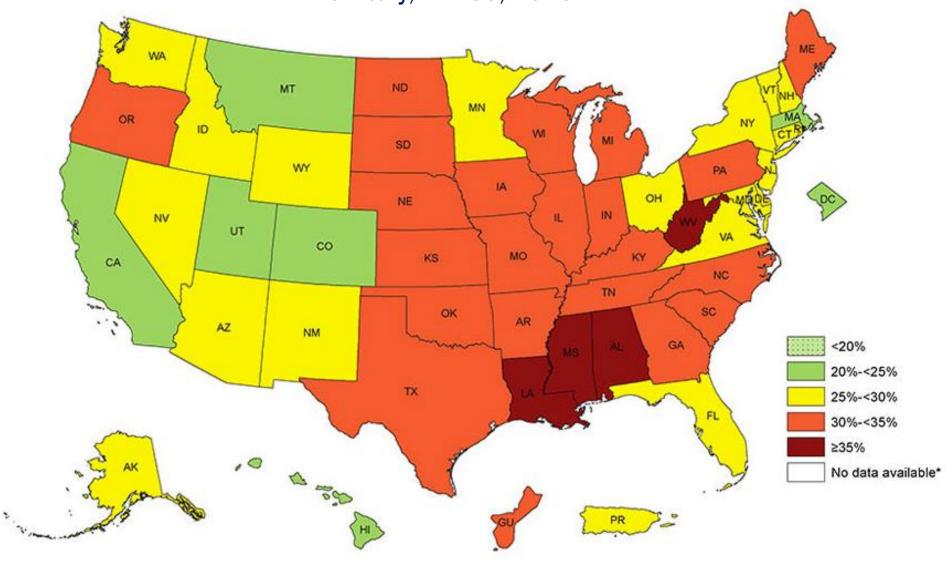
**Learn More** 



## **Adult Obesity**

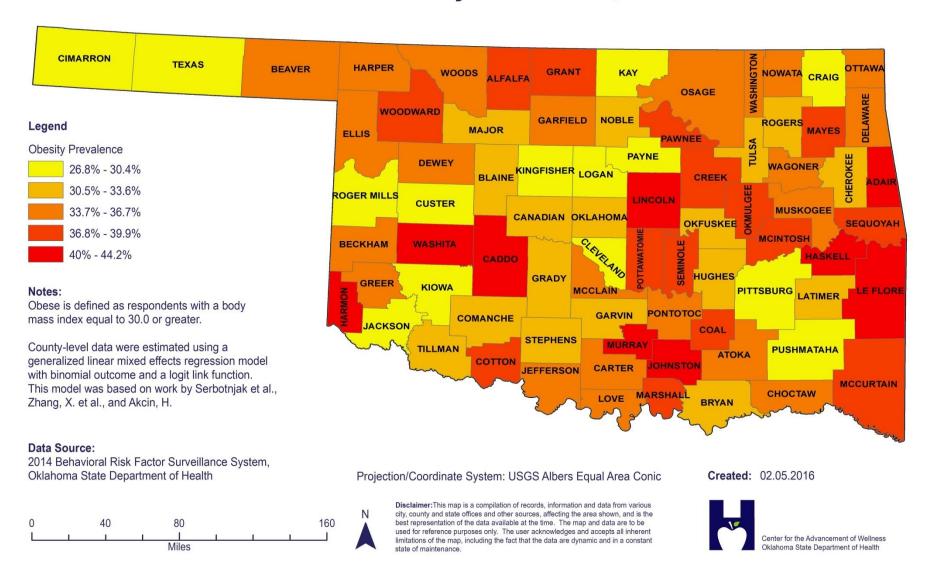


## Prevalence of Self-Reported Obesity Among U.S. Adults by State and Territory, BRFSS, 2015





### Oklahoma Obesity Prevalence, 2014





## Oklahoma is in the top 10 for obesity related health issues such as diabetes and hypertension



Current adult diabetes rate (2015)

11.7%

Rank among states (2015)

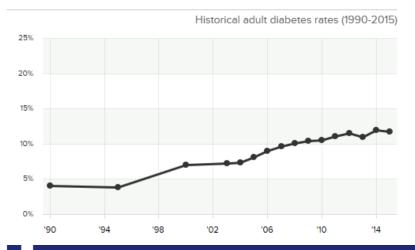
9/5

Diabetes cases in 2010

337,823

Projected cases of diabetes in 2030 at current pace

512,801



### Hypertension

Current adult hypertension rate (2015)

36.2%

Rank among states (2015)

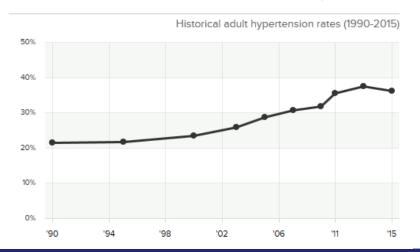
9/51

Hypertension cases in 2010

765,126

Projected cases of hypertension in 2030 at current pace

969,830





## **Obesity related costs**

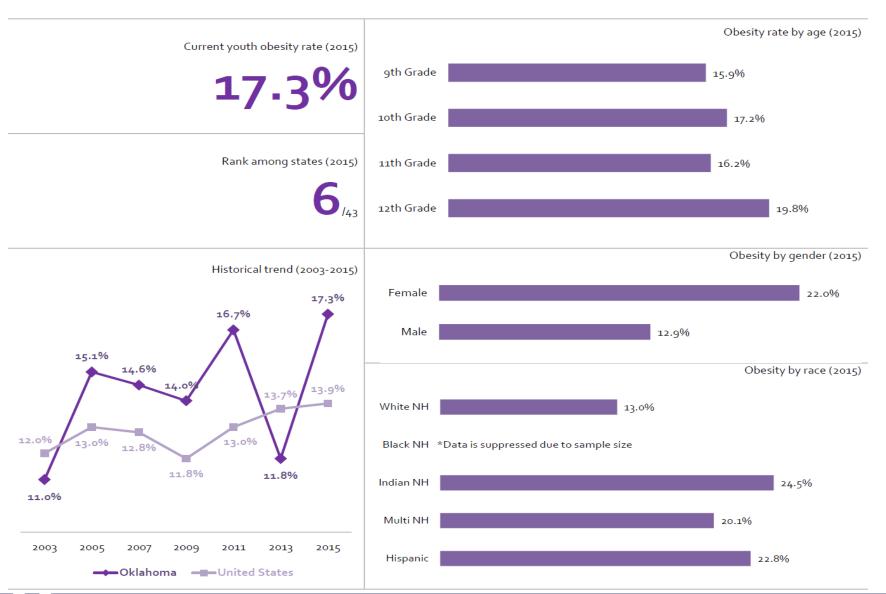
Oklahoma Costs	
Obesity-attributable expenditures (OAE) (2009 dollars) for Oklahoma	\$1.72 billion
State Medicaid OAE	\$213 million (12%)
State Medicare OAE	\$436 million (25%)

U.S. Costs	
Obesity-attributable expenditures (OAE) (2009 dollars)	\$147 billion
State Medicaid OAE	\$28 billion (19%)
State Medicare OAE	\$34 billion (23%)

Trogdon JG, Finkelstein EA, Feagan CW, Cohen JW. State- and payerspecific estimates of annual medical expenditures attributable to obesity. Obesity (Silver Spring). 2012;20(1): 214–20.

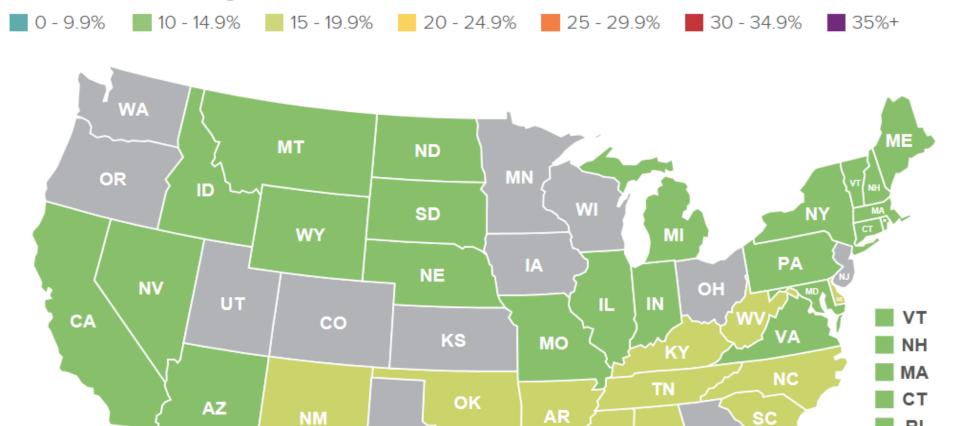


## **Youth Obesity**





### Percent of obese high school students



TX



AK

RI

NJ

DE

MD

DC

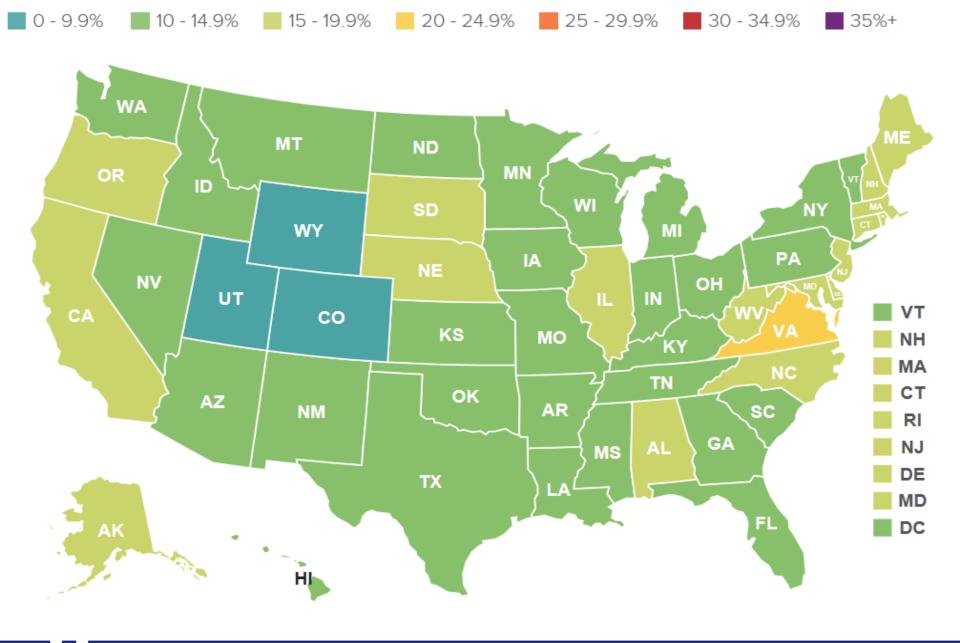
GA

FL

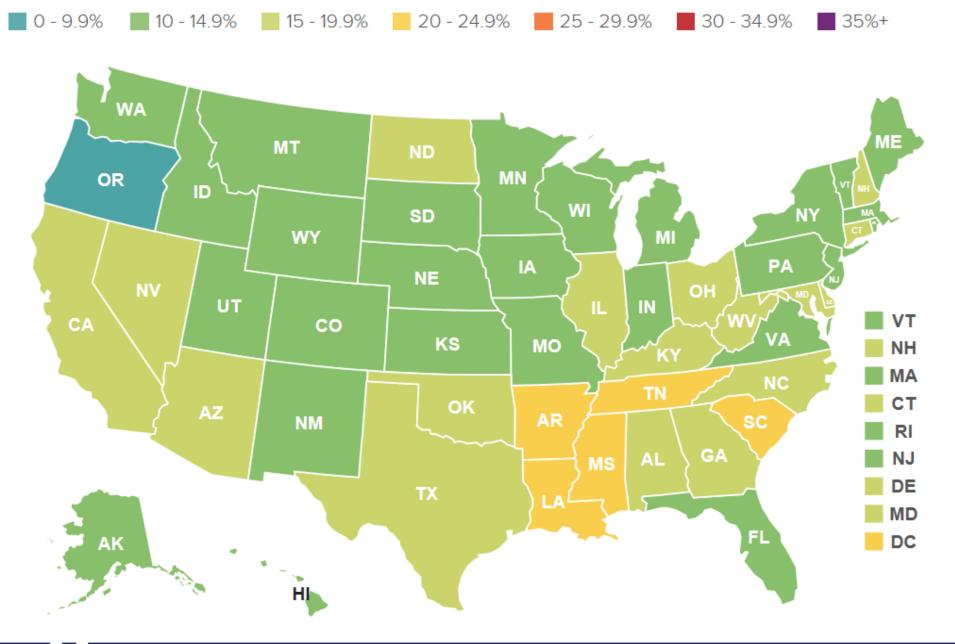
## Childhood Obesity – WIC and NSCH

2- to 4-year- old WIC participants		10- to 17-year olds	
	Current <b>OK</b> obesity rate (2014) <b>13.8%</b>		Current <b>OK</b> obesity rate (2011/12) <b>17.4</b> %
Rank among states (2014)  29/51	Current <b>US</b> obesity rate (2014)  14.5%	Rank among states (2011/12)  14/51	Current <b>US</b> obesity rate (2011/12) <b>15.7%</b>
<b>— — — — — — — — — —</b>	Historical trends (2000-2014)	//51	Historical trends (2003-2015)
15.5%	15.9% 15.4% 14.5%		5.4%
11.1%		14.8%	
2000 2004	2010 2014	2003/04 2	007 2011/12
<b>→</b> Oklahoma <b>→</b>	■United States	Oklahoma — United States	

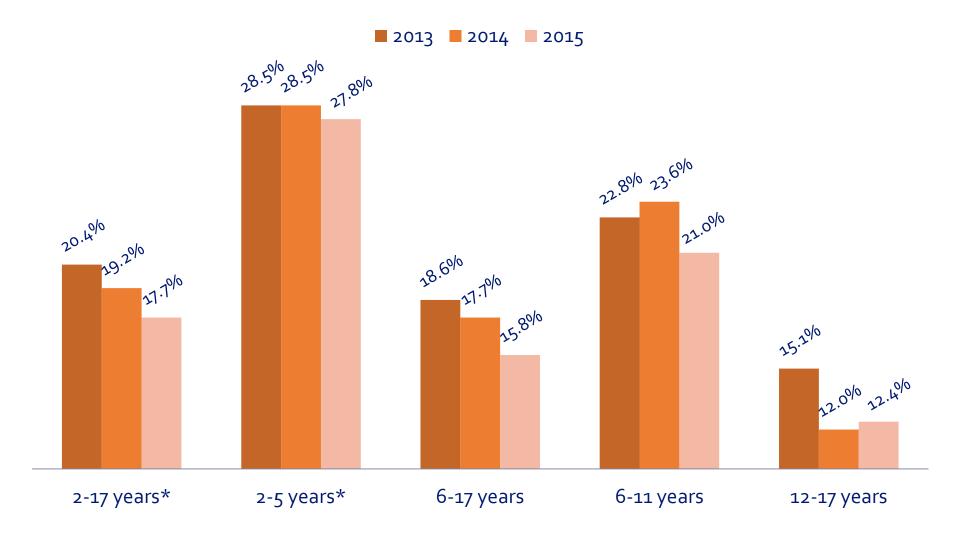
### Percent of WIC participants ages 2-4 with obesity



### Percent of obese children ages 10 to 17



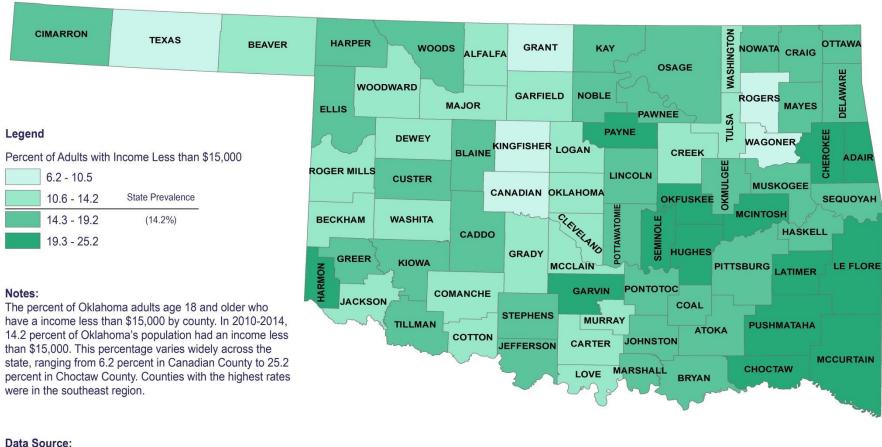
## **Childhood Obesity – BRFSS**



<sup>\*</sup>Note: Child BMI calculations are based on precise measurements, and are very sensitive to inaccurate recalls of a child's height and weight. The 2-5 year age group is especially susceptible to this issue, as the range of plausible BMI values is very



### **Social Determinant - Income**



2010-2014 American Community Survey 5-Year Estimates

40 80 160 Miles

Projection/Coordinate System: USGS Albers Equal Area Conic

Disclaimer: This map is a compilation of records, information and data from various city, county and state offices and other sources, affecting the area shown, and is the best representation of the data available at the time. The map and data are to be used for reference purposes only. The user acknowledges and accepts all inherent limitations of the map, including the fact that the data are dynamic and in a constant state of maintenance

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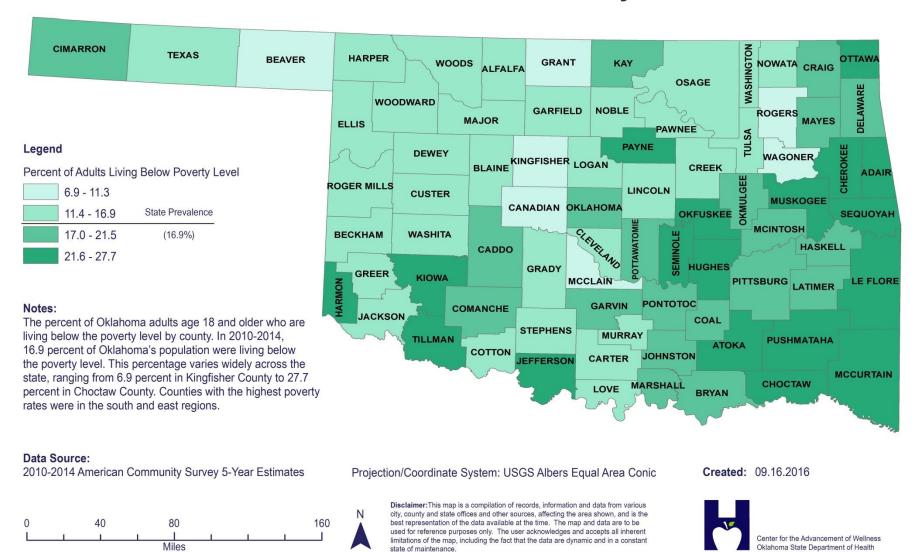


Center for the Advancement of Wellness Oklahoma State Department of Health



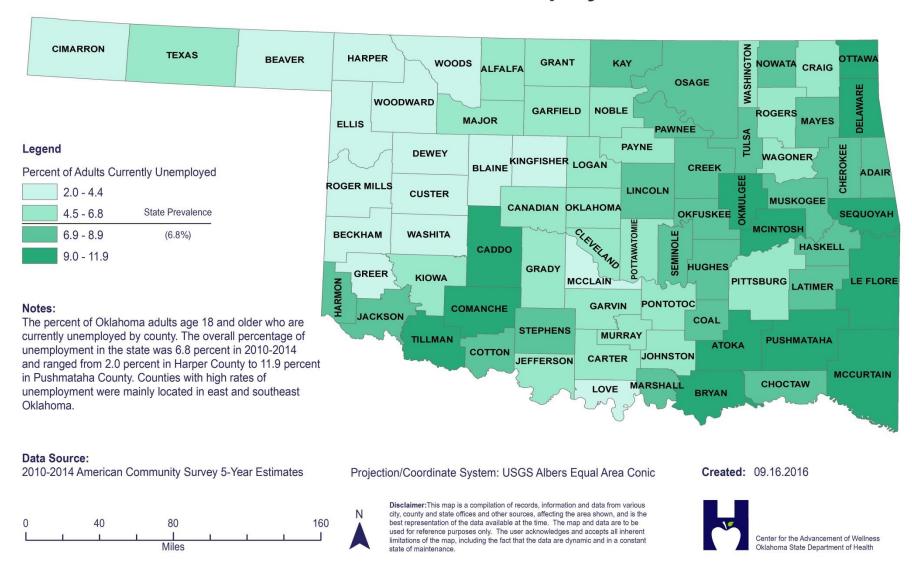
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### **Social Determinant - Poverty**



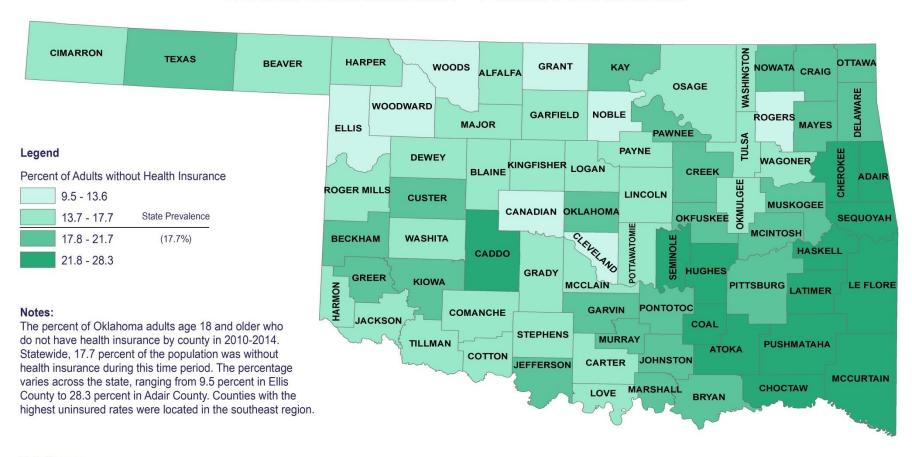


### **Social Determinant - Employment**





### **Social Determinant - Health Insurance**



#### **Data Source:**

2010-2014 American Community Survey 5-Year Estimates

Projection/Coordinate System: USGS Albers Equal Area Conic

Disclaimer: This map is a compilation of records, information and data from various city, countly and state offices and other sources, affecting the area shown, and is the best representation of the data available at the time. The map and data are to be used for reference purposes only. The user acknowledges and accepts all inherent limitations of the map, including the fact that the data are dynamic and in a constant state of maintenance.

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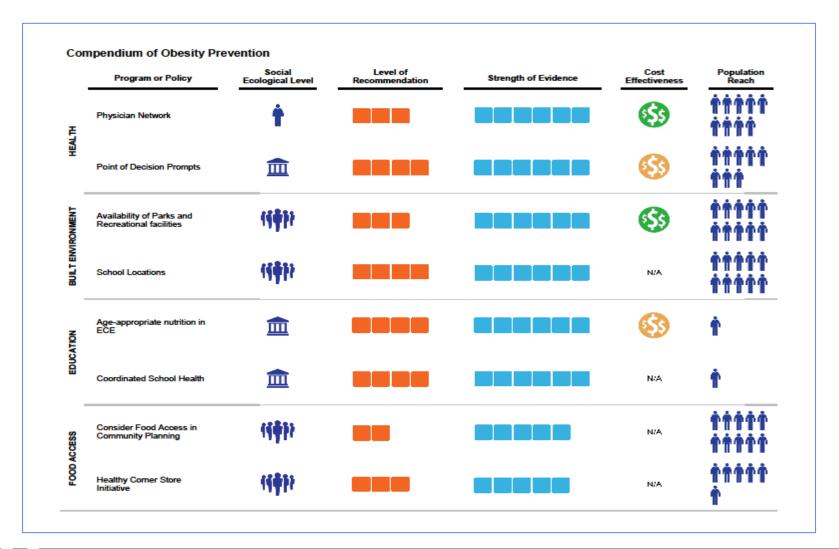
Center for the Advancement of Wellness Oklahoma State Department of Health



## Compendium of Research



## Compendium Example



## **Compendium Overview**

### Step 1:

Comprehensive literature scan to create list of obesity prevention and reduction strategies.

### Step 2:

Using that list as a foundation scan literature for additional research supporting or refuting each strategy

### Step 3:

Create compendium to summarize findings in each category across sectors



### Social Ecological Level





Individual Interpersonal Organizational Community Public Policy













### Level of Recommendation

- Based on American Heart Association
- Based on level of scientific evidence in support of the recommendation
- Seeks to address the following:
  - Potential for sustainability
  - Provide accountability for funding partners and stakeholders
  - Improve and enhance future planning efforts
  - Assess whether there are any unintended consequences

Table 2. Classification of Recommen	dations and Level of Evidence for Population-Level Interventions
The recommendation for any particular intervention is classified as follows*	
Class I	There is evidence for and/or general agreement that the intervention is beneficial, useful, and effective. The intervention should be performed.
Class II	There is conflicting evidence and/or a divergence of opinion about the usefulness/efficacy of the intervention.
Class IIa	Weight of evidence/opinion is in favor of usefulness/efficacy. It is reasonable to perform the intervention.
Class IIb	Usefulness/efficacy is less well established by evidence/opinion. The intervention may be considered.
Class III	There is evidence and/or general agreement that the intervention is not useful/effective and in some cases may be harmful.

### Strength of Evidence

#### **Evidence Rating: Guidelines**

Rating	Evidence Criteria: Amount & Type	Evidence Criteria: Quality of Evidence
Scientifically Supported	1 or more systematic review(s), or at least:     3 experimental studies, or     3 quasi-experimental studies with matched concurrent comparisons	Studies have:     Strong designs     Statistically significant positive findings
Some Evidence	<ul> <li>1 or more systematic review(s), or at least:</li> <li>2 experimental studies, or</li> <li>2 quasi-experimental studies with matched concurrent comparisons, or</li> <li>3 studies with unmatched comparisons or pre-post measures</li> </ul>	Studies have statistically significant positive findings  Compared to 'Scientifically Supported', studies have:  • Less rigorous designs • Limited effect(s)
Expert Opinion	Generally no more than 1 experimental or quasi-experimental study with a matched concurrent comparison, or     2 or fewer studies with unmatched comparisons or pre-post measures	Expert recommendation supported by theory, but study limited     Study quality varies, but is often low     Study findings vary, but are often inconclusive
Insufficient Evidence	Generally no more than 1 experimental or quasi-experimental study with a matched concurrent comparison, or     2 or fewer studies with unmatched comparisons or pre-post measures	Study quality varies, but is often low     Study findings vary, but are often inconclusive
Mixed Evidence	1 or more systematic review(s), or at least: 2 experimental studies, or 2 quasi-experimental studies with matched concurrent comparisons, or 3 studies with unmatched comparisons or pre-post measures	Studies have statistically significant findings     Body of evidence inconclusive, or     Body of evidence mixed leaning negative
Evidence of Ineffectiveness	1 or more systematic review(s), or at least:     3 experimental studies, or     3 quasi-experimental studies with matched concurrent comparisons	Studies have:  • Strong designs • Significant negative or ineffective findings, or • Strong evidence of harm



### **Cost Effectiveness**

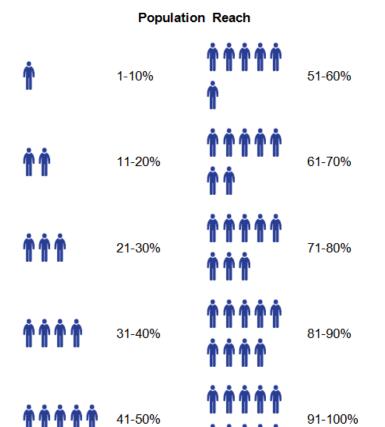
- Three tiered rating system
  - Very cost effective
  - Moderately cost effective
  - Least cost effective
- General guide
- More detailed numbers guiding the classification







### Reach

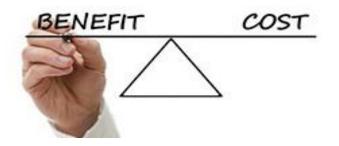


- Percentage of population affected
- Based on 2015 census data



### **Compendium Utilization**

- Guide decision making and partnerships
- Compare current programs and policies to evidence based research
- Ensure alignment with social ecological model
- Aim is for interventions to have highest reach with better cost effectiveness

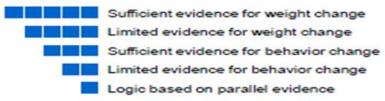




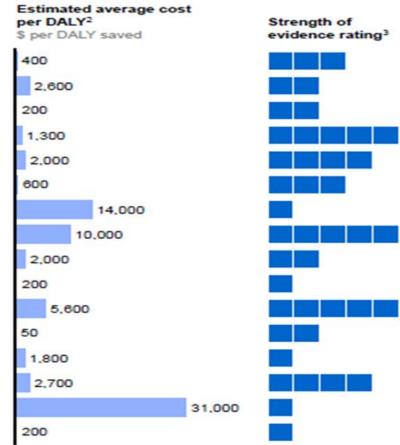
### **Cost Effectiveness**

There is considerable scope to have high impact on obesity in a cost-effective way

Cost-effectiveness and impact of obesity levers, United Kingdom









# What is the Statewide Inventory on Obesity?

- Purpose is to collect data on programs related to obesity or reducing obesity
- Create one centralized source of information about programs which can serve to assist in reduction of obesity
- Involves multiple cabinets and agencies
- Include programs that directly and indirectly impact obesity



# Example: Oklahoma Works Asset Map

- Collects data on all programs in state agencies related to the mission of Oklahoma Works
- Includes all programs that directly or indirectly impact Workforce and Education outcomes
- Allows for partnerships to be formed between agencies that span multiple citizen needs and connect programs across the lifespan
- Increases efficacy and reach of existing programs
- Determines gaps and needs
- Iterative and evolving



### Oklahoma Works Asset Map



#### **Asset Map Oklahoma Works**

Contributing Agency	Name of Program		Description of Program		Federal Agency	State Agency or Organization	Funding Source	Amount of Funding (Annually)
Higher Education	Oklahoma Tuition Aid Grant (OTAG)	Heed	l-based financial aid progra	•		OSRHE	State Funds	\$19,115,722.00
	Oklahoma Tuition Equalization Grant (OTEG)	Need-based college financial aid	program for students at pr	ivate or independent colleges.		OSRHE	State Funds	\$3,346,368.00
	Academic Scholars Program		OKLAHOMA WORKS	DRAFT- Asset Ma	p for Oklahoma W	/orks-Workforce Dev	elopment, OESC, Career Te	ch
	OkPromise Scholarship Program	Need and	KEY			U.S. Department	U. S. of Labor Department of Education	U.S. Department of Defense
	Teacher Shortage Incentive Program	Grant program to	Federal Agency  Contributing	Oklahoma Center for the Advancement of	Oklahoma Office of	Oklahoma Empl	oyment Oklahoma Depi	
	National Guard Tuition Waiver	Financial aid progra	Agency	Science and Technology	Workforce Developme	nt Security Commissi	on (OESC)	
	Concurrent Enrollment Vaiver	Financial aid	State Agency or Organization	Oklahoma Center for the Advancement of Science and Technology	Oklahoma Office of Workfor Development	ce Oklahoma Employme Commission (C		ganizations
Contributing Agency	Name of Program		Program	<b>.</b>				
Workforce Development	WIOA-Adult Program	WIOA is designed to help adult support to succeed in the labor:	Program * Indicates multiple state agency involvement	Program -Oklahoma Applied Research Support Program (OARS) -Oklahoma Health Research Program -Intern Partnership Program -Oklahoma Maunfacturing Alliance (OMA)	Programs -WIOA-Adult Program -WIOA-Dislocated Worker Program -WIOA-Vouth Program -Oklahoma Greenovation/H1-B Technical Skills Training -WIOA-Adult Program- Rapid Response -WIA TITLE V INCENTIVE	Programs -Jobs for Veterans Sta (IVSG) -Work Opportunity Ta (WOTC) -Foreign Labor Certifit (FLC) -Trade Adjustment As -Unemployment Insu -Employment Service -Disaster Unemploym Assistance	te Grants	ggrams partment Defense (Jahoma Bid istance* jilitary ployment t training vices*
	WIOA-Dislocated Worker Program	WIOA is designed to help adults access employment, educatior market and to m	Correction, Department		xcel for specific program details Regents, State Department of	-Wagner-Peyser (WIO	A)  Department of Human Services, Department of Epartment of Managements, Office of Managem	



#### Health360 Statewide Inventory on Obesity



\* If you have any additional questions about a field, please see Instructions on Tab 2

Owner Agency	Partnering (State Agency or Organization) with Owner Agency	Name of	Description of Program	Federal Agency	Geographic County Where Program is Served (Check all that apply)	Funding Source	Amount of Funding (Annually)	Time frame/ Duration	Demographic of Population Served	Who- (Which citizens are qualified to be eligible for this service?)	Number of Citizens Served by Program	Performance Metrics	Key Limitations	Other Info

#### **Tab 2 Instructions**

Owner Agency	Please indicate the agency that owns/administers this program.
Partnering (State Agency or Organization) with Owner Agency	Please indicate the any other agencies/organizations that partner/contribute to this program.
Name of Program/ Policy	Please indicate the common name of the program, and define any acronyms utilized.
Description of Program	Please provide a concise (2-3 sentences) description of the program, including key services provided.
Federal Agency	Please identify the agency or organization that oversees the program at the federal level, if applicable.
Geographic County Where Program is Served	Please use the drop down menu to identify the county/counties within the state that this program serves. If all, please select "All of Oklahoma."
Funding Source	Please indicate the source of the funding, whether it is federal, state, or other-funded, and identify any federal or other agency/organization that oversees the funds.
Amount of Funding (Annually)	Please include an estimated amount of funding provided on an annual basis. Examples: If a program receives one-time funds of \$6 million over 3 years, please indicate \$2 million, with \$6 million total. If a program receives \$6 million on an annual basis year over year, please indicate \$6 million.
Time frame/ Duration	Please indicate the frequency in which funds are received for the program and timeframe in which the funding could be used.  Example: If the program receives annual funding of \$6 million year over year, but the funds may be utilized over 3 years, please indicate Annual, with a 3 year duration.
Guiding Laws/ Regulations	Please indicate any federal and/or state laws and/or regulations that guide the usage of the funds.
Demographic of Population Served	Please indicate which demographic that this particular program impacts in the drop down menu. Options in the drop down menu include: All Demographics and Populations Listed, White, Black or African American, American Indians and Alaska Natives, Asian, Native Hawaiians and Other Pacific Islanders, Hispanic or Latino Americans, Low Socioeconomic Status, Medicaid, Disability, Veterans, Pregnant Women, People located in Rural Areas, People with Co-Morbidities.
Who (Which citizens are qualified to be eligible for this service?)	If the program has any eligibility criteria for individuals to utilize funds or services provided by the program, please summarize those criteria. In other words, which citizens are qualified to be eligible for this service? For example, if the program is only for "1st year teachers" or "approved candidates" please indicate that in this field. If none exist, please indicate "N/A."
Number of Citizens Served by Program	Please report the number of citizens served by the program statewide.
Performance Metrics	Please list any established performance metrics used to monitor or evaluate this program at the state or federal level.
Key Limitations	Please briefly identify any key limitations that the program has that have not been identified in other cells in this spreadsheet.
Other Info	Please briefly provide any other relevant information regarding this program which would assist in understanding its purpose.

### **Statewide Inventory Worksheet**

Owner Agency	Partnering (State Agency or Organization) with Owner Agency	Name of Program/ Policy	Description of Program	Federal Agency	Geographic County Where Program is Served (Check all that apply)	Funding Source	Amount of Funding (Annually)

Time frame/ Duration	Guiding Laws/ Regulations/ Internal Policy	Demographic of Population Served	Who- (Which citizens are qualified to be eligible for this service?)	Number of Citizens Served by Program	Key Limitations	Other Info



Please indicate the any other agencies/organizations that partner/contribute to this program.

Please provide a concise (2-3 sentences) description of the program, including key services provided.

Please identify the agency or organization that oversees the program at the federal level, if applicable.

Please indicate any federal and/or state laws and/or regulations that guide the usage of the funds.

and Alaska Natives, Asian, Native Hawaiians and Other Pacific Islanders, Hispanic or Latino Americans, Low

Please use the drop down menu to identify the county/counties within the state that this program serves. If all, please

Please indicate the source of the funding, whether it is federal, state, or other-funded, and identify any federal or

Please include an estimated amount of funding provided on an annual basis. Examples: If a program receives onetime funds of \$6 million over 3 years, please indicate \$2 million, with \$6 million total. If a program receives \$6 million

Please indicate the frequency in which funds are received for the program and timeframe in which the funding could be used. Example: If the program receives annual funding of \$6 million year over year, but the funds may be utilized

Please indicate which demographic that this particular program impacts in the drop down menu. Options in the drop down menu include: All Demographics and Populations Listed, White, Black or African American, American Indians

Socioeconomic Status, Medicaid, Disability, Veterans, Pregnant Women, People located in Rural Areas, People with

If the program has any eligibility criteria for individuals to utilize funds or services provided by the program, please

summarize those criteria. In other words, which citizens are qualified to be eligible for this service? For example, if the program is only for "1st year teachers" or "approved candidates" please indicate that in this field. If none exist,

Please list any established performance metrics used to monitor or evaluate this program at the state or federal level.

Please briefly provide any other relevant information regarding this program which would assist in understanding its

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Please briefly identify any key limitations that the program has that have not been identified in other cells in this

Please indicate the common name of the program, and define any acronyms utilized.

Inve	entory	Wor	ksł	neet	Ins	truct	ions	

Inv	entory	worksneet	instructions	

Inventory Worksheet Instructions
----------------------------------

Inve	entory wo	rksneet in	istructions	

other agency/organization that oversees the funds.

on an annual basis year over year, please indicate \$6 million.

over 3 years, please indicate Annual, with a 3 year duration.

Please report the number of citizens served by the program statewide.

select "All of Oklahoma."

Co-Morbidities.

spreadsheet.

purpose.

please indicate "N/A."

**Owner Agency** 

**Federal Agency** 

**Funding Source** 

with Owner Agency Name of Program/ Policy

**Description of Program** 

**Amount of Funding (Annually)** 

Time frame/ Duration

**Guiding Laws/ Regulations** 

eligible for this service?)

**Performance Metrics** 

**Key Limitations** 

Other Info

**Demographic of Population Served** 

Who (Which citizens are qualified to be

**Number of Citizens Served by Program** 

Partnering (State Agency or Organization)

**Geographic County Where Program is Served** 

Inve	entory	WORKS	neet ii	nstruc	uons	

Please indicate the agency that owns/administers this program.

### STATEWIDE INVENTORY PRACTICE

1. Review worksheet and instructions.

 Participants complete one example program from their own agency on their worksheet (5 min).

Read aloud one example per agency.

### **Timeline & Deliverables**



### Health 360 Project Dates

- <u>Dec. 15 Jan. 30</u>: Agencies will research, collect, and compile all programs related to obesity or reducing rate of obesity
- Jan. 30, 2017: Complete Statewide Inventory
- Jan. 31 Mar. 1: Project managers will conduct agency followup
- Mar. 1 30: Refine data and standardize data; compare to compendium
- April May: Develop recommendations
- May June: Reconvene stakeholders



### **Health 360 Inventory Contact**

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## Wrap Up & Next Steps



Oklahoma State Department of Health

### **Next Steps**

- Statewide inventory will be sent to agencies for completion December 16<sup>th</sup>.
  - Email will be sent to the meeting attendees, please forward to agency designee to fill out
- Deadline for inventory submission is January 30<sup>th</sup>, early submissions may receive early follow up from project managers
- Recommendation development will occur from March through April
- Recommendations presented to state agencies represented here today, and Governor in May 2017

