

## 2018 Forces of Change Codebook

### Economic Surveillance

**1. My LHD's current fiscal year budget is ... (Select only one) (s1\_q1)**

- [1] Less than the previous year's budget
- [2] Approximately the same (within plus or minus one percent) as the previous year's budget
- [3] Greater than the previous year's budget
- [4] Do not know

**2. I expect my LHD's budget in the next fiscal year will be... (Select only one) (s1\_q2)**

- [1] Less than the current year's budget
- [2] Approximately the same (within plus or minus one percent) as the current year's budget
- [3] Greater than the current year's budget
- [4] Do not know

Instructions
The following questions ask about changes to your LHD workforce between <u>January 1 and December 31, 2017</u> .
Please provide your response in terms of number of employees—whether full- or part-time—rather than full-time equivalents (FTEs).

**3. How many employees were affected by each of the following *workforce reductions* between January 1 and December 31, 2017? Enter "0" if no employees were affected. (Please enter whole number; no commas, decimals or spaces.)**

*Enter "0" if no employees were affected or if your LHD did not experience the select workforce reduction.*

Number of employees <i>laid off</i>	<b>(s1_q3a)</b>
Number of employees <i>lost through attrition and not replaced</i> because of hiring freezes or budget cuts	<b>(s1_q3b)</b>
Number of employees who had their <i>working hours reduced</i> for budgetary reasons (DO NOT include employees placed on mandatory furlough)	<b>(s1_q3c)</b>
Number of employees placed on <i>mandatory furlough</i> for budgetary reasons	<b>(s1_q3d)</b>

**4. How many employees did your LHD *hire* for each of the following reasons between January 1 and December 31, 2017? Enter "0" if no employees were hired. (Please enter whole number; no commas, decimals or spaces.)**

*Enter "0" if no employees were affected or if your LHD did not have the select hiring reason occur.*

Number of <i>new positions</i> filled	<b>(s1_q5a)</b>
Number of <i>vacancies</i> filled due to <i>lift of previous hiring freeze</i>	<b>(s1_q5b)</b>
Number of <i>vacancies</i> filled due to <i>employee turnover</i>	<b>(s1_q5c)</b>

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### Response to Opioid Use and Abuse

5. Between January 1 and December 31, 2017, did your LHD conduct activities to address opioid use and abuse? (s13\_q1)

- [1] Yes
- [0] No → *(skip questions 6-8)*
- [2] Do not know → *(skip questions 6-8)*

6. How many employees are currently working on activities to address opioid use and abuse? (s13\_q2)

7. Did your LHD dedicate general funds to conduct any activities to address opioid use and abuse? (s13\_q3)

- [1] Yes
- [0] No
- [2] Do not know

8. Which of the following organizations does your LHD work with to conduct activities for opioid use and abuse? (Select all that apply) [Variable values: 0=unchecked; 1=checked]

- (s13\_q4a) Businesses
- (s13\_q4b) Faith communities
- (s13\_q4c) Federal agencies
- (s13\_q4d) Healthcare
- (s13\_q4e) Local or state government agencies
- (s13\_q4f) Media
- (s13\_q4g) Schools
- (s13\_q4h) Secular non-profits or community organizations
- (s13\_q4i) Other (please specify) (s13\_q4text)
- (s13\_q4j) None of the above

9. Please indicate any barriers prevented your LHD from conducting activities to address opioid use and abuse. (Select all that apply) [Variable values: 0=unchecked; 1=checked]

- (s13\_q5a) Don't have enough data to determine problem/solution
- (s13\_q5b) Lack of community partnerships
- (s13\_q5c) Lack of staff expertise/training
- (s13\_q5d) Lack of understanding the issues
- (s13\_q5e) No dedicated funding
- (s13\_q5f) Not identified as a priority for health department
- (s13\_q5g) Not the responsibility of the health department
- (s13\_q5h) Other (please specify) (s13\_q5text)
- (s13\_q5i) Did not encounter any barriers

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### Influenza Preparedness and Response

10. Does your LHD participate in any immunization-focused partnerships or coalitions?

(s14\_q1)

- [1] Yes, as a convener
- [2] Yes, as a leader
- [3] Yes, in another role (please specify): (s14\_q1text)
- [0] No

11. Indicate if organizations in your jurisdiction (LHD, clinics, hospitals, retail outlets, etc.) experienced any shortages of the flu vaccines, Tamiflu, or Oseltamivir for this current flu season. (Select all that apply) [Variable values: 0=unchecked; 1=checked]

- (s14\_q2a) Flu vaccine
- (s14\_q2b) Oseltamivir (*brand name Tamiflu*)
- (s14\_q2c) Tamiflu
- (s14\_q2d) None of the above
- (s14\_q2e) Do not know

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**12. For each of the following activities, indicate whether your LHD conducted the activity for the CURRENT flu season.** (For each row, select only one)

**Next, indicate whether your LHD had to increase the level of activity this flu season compared to the previous flu season.** (For each row, select only one)

	Indicate whether your LHD conduct this activity for the <u>current flu season</u> .		Compared to the <u>previous flu season</u> did your LHD level of activity this current flu season increase?		
	Yes [1]	No [0]	Yes [1]	No [0]	Unsure [2]
Assisted with or conducted school-located vaccination clinics	<b>(s14_q3a)</b>		<b>(s14_q3b)</b>		
Conducting any planning for vaccine prioritization	<b>(s14_q4a)</b>		<b>(s14_q4b)</b>		
Conducted immunization outreach and education within the community (i.e. health fairs, community events, etc.)	<b>(s14_q5a)</b>		<b>(s14_q5b)</b>		
Conducted pandemic influenza vaccination planning or exercises targeting critical workforce	<b>(s14_q6a)</b>		<b>(s14_q6b)</b>		
Targeted immunization and outreach efforts specifically for adults	<b>(s14_q7a)</b>		<b>(s14_q7b)</b>		
Targeted immunization and outreach efforts specifically for children and adolescents	<b>(s14_q8a)</b>		<b>(s14_q8b)</b>		
Targeted immunization and outreach efforts specifically for vulnerable populations (besides children and adolescents)	<b>(s14_q9a)</b>		<b>(s14_q9b)</b>		
Utilized public communication platforms (i.e. newspaper articles, radio interviews, public service announcements, etc.)	<b>(s14_q10a)</b>		<b>(s14_q10b)</b>		

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### **Population Health Activities**

<b>Population health</b>
A cohesive, integrated and comprehensive approach to health considering the distribution of health outcomes within a population, the social determinants that influence the distribution of care, and the policies and interventions that impact and are impacted by the determinants.

<b>Social determinants</b>
Conditions in the environments in which people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks.

<b>Population Health Focus Areas</b>	
<b>Community Infrastructure</b>	The basic physical and organizational structures and facilities of a community, such as roads, sidewalks, parks, water supplies, sewerage, telecommunication, and energy.
<b>Community Violence</b>	Exposure to intentional acts of interpersonal violence committed in public areas by individuals who are not intimately related to the victim.
<b>Family and Social Supports</b>	Interconnected relationships that provide durable patterns of interaction, interpersonal relations, nurturing, and reinforcements for coping with daily life.
<b>Food Insecurity, Hunger, and Nutrition</b>	The state of being without reliable access to a sufficient quantity of affordable, nutritious food.
<b>Housing Instability/Homelessness</b>	Having difficulty paying rent, spending more than 50 percent of household income on housing, having frequent moves, living in overcrowded conditions, or doubling up with friends and relatives.

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**13. Between January 1 and December 31, 2017, did your LHD conduct activities to address each of the following focus areas?**

(For each row, select only one)

	<b>Yes*</b>	<b>No</b>	<b>Unsure</b>
<b>Community Infrastructure</b> (s15_q1a)	[1]	[0]	[2]
<b>Community Violence</b> (s15_q2a)	[1]	[0]	[2]
<b>Family and Social Supports</b> (s15_q3a)	[1]	[0]	[2]
<b>Food Insecurity, Hunger, and Nutrition</b> (s15_q4a)	[1]	[0]	[2]
<b>Housing Instability/Homelessness</b> (s15_q5a)	[1]	[0]	[2]

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### Instructions for answering questions 14 through 18

For each focus area listed in question 13 for which your LHD conducted activities, please answer questions 14 through 17 only for those focus areas. For each focus area listed in question 13 for which your LHD does not conduct activities, please answer question 18 only for those focus areas.

For example, if your LHD conducted activities to address Housing Instability/Homelessness and Community Violence and does not conduct activities to address the remaining three focus areas, answer questions 14 through 17 only for Housing Instability/Homelessness and Community Violence (when applicable) and answer question 18 for the remaining focus areas.

### Definitions

**Networking** includes the exchange of ideas and information for mutual benefit, often via newsletter, conferences, meetings, and electronic information sharing. It is the least formal form of partnership and requires little time or trust between partners.

**Coordinating** involves the exchange of information and the altering of activities, for a common purpose.

**Cooperating** involves the exchange of information, altering activities and sharing resources. It requires a significant amount of time, high level of trust and sharing of turf.

**Collaborating** includes enhancing the capacity of the other partner for mutual benefit and a common purpose, in addition to the above activities –the exchange of information, altering activities, and sharing of resources.

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14. For respondents that selected Yes for a focus area in question 13, answer question 14 for that focus area.

**Between January 1 and December 31, 2017**, which of the following best describes how your LHD worked with other organizations in the community to accomplish goals in the following focus areas? (For each row, select only one)

	Networking	Coordinating	Cooperating	Collaborating	Not involved in partnerships/collaborations
<b>Community Infrastructure</b> (s15_q1b)	[1]	[2]	[3]	[4]	[5]
<b>Community Violence</b> (s15_q2b)	[1]	[2]	[3]	[4]	[5]
<b>Family and Social Supports</b> (s15_q3b)	[1]	[2]	[3]	[4]	[5]
<b>Food Insecurity, Hunger, and Nutrition</b> (s15_q4b)	[1]	[2]	[3]	[4]	[5]
<b>Housing Instability/Homelessness</b> (s15_q5b)	[1]	[2]	[3]	[4]	[5]



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15. For respondents that selected Networking, Coordinating, Cooperating, or Collaborating for a focus area in question 14, answer question 15 for that focus area.

**For each focus area, please indicate which of the following organizations your LHD worked with to conduct activities to address the focus area.**

(For each column, select all that apply) [Variable values: 0=unchecked; 1=checked]

	Community Infrastructure	Community Violence	Family and Social Supports	Food Insecurity, Hunger, and Nutrition	Housing Instability/ Homelessness
Businesses	(s15_q1c1)	(s15_q2c1)	(s15_q3c1)	(s15_q4c1)	(s15_q5c1)
Faith communities	(s15_q1c2)	(s15_q2c2)	(s15_q3c2)	(s15_q4c2)	(s15_q5c2)
Healthcare	(s15_q1c3)	(s15_q2c3)	(s15_q3c3)	(s15_q4c3)	(s15_q5c3)
Local or state government agencies	(s15_q1c4)	(s15_q2c4)	(s15_q3c4)	(s15_q4c4)	(s15_q5c4)
Media	(s15_q1c5)	(s15_q2c5)	(s15_q3c5)	(s15_q4c5)	(s15_q5c5)
Schools	(s15_q1c6)	(s15_q2c6)	(s15_q3c6)	(s15_q4c6)	(s15_q5c6)
Secular non-profits or community organizations	(s15_q1c7)	(s15_q2c7)	(s15_q3c7)	(s15_q4c7)	(s15_q5c7)
Other (please specify below)	(s15_q1c8)	(s15_q2c8)	(s15_q3c8)	(s15_q4c8)	(s15_q5c8)
None	(s15_q1c9)	(s15_q2c9)	(s15_q3c9)	(s15_q4c9)	(s15_q5c9)

**Please specify additional organizations your LHD worked with to conduct activities to address any of the following focus areas, if any. (s15\_qctext)**

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- 16. For respondents that selected Networking, Coordinating, Cooperating, or Collaborating for a focus area in question 14, answer question 16 for that focus area.**

**For each focus area, what best describes the role of your LHD within the partnership?**

(For each row, select only one)

	<b>Leader</b>	<b>Convener</b>	<b>Other Role</b>
<b>Community Infrastructure</b> (s15_q1d)	[1]	[2]	[3]
<b>Community Violence</b> (s15_q2d)	[1]	[2]	[3]
<b>Family and Social Supports</b> (s15_q3d)	[1]	[2]	[3]
<b>Food Insecurity, Hunger, and Nutrition</b> (s15_q4d)	[1]	[2]	[3]
<b>Housing Instability/Homelessness</b> (s15_q5d)	[1]	[2]	[3]

- 17. For respondents that selected Yes for a focus area in question 13, answer question 17 for that focus area.**

**Did your LHD dedicate general funds to conduct any activities to address each of the following focus areas?** (For each row, select only one)

	<b>Yes</b>	<b>No</b>	<b>Unsure</b>
<b>Community Infrastructure</b> (s15_q1e)	[1]	[0]	[2]
<b>Community Violence</b> (s15_q2e)	[1]	[0]	[2]
<b>Family and Social Supports</b> (s15_q3e)	[1]	[0]	[2]
<b>Food Insecurity, Hunger, and Nutrition</b> (s15_q4e)	[1]	[0]	[2]
<b>Housing Instability/Homelessness</b> (s15_q5e)	[1]	[0]	[2]

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18. For respondents that selected No for a focus area in question 13, answer question 18 for that focus area.

For each focus area, please indicate which barriers prevented your LHD from conducting activities to address the focus area. (For each column, select all that apply)

[Variable values: 0=unchecked; 1=checked]

	Community Infrastructure	Community Violence	Family and Social Supports	Food Insecurity, Hunger, and Nutrition	Housing Instability/ Homelessness
Don't have enough data to determine problem/solution	(s15_q1f1)	(s15_q2f1)	(s15_q3f1)	(s15_q4f1)	(s15_q5f1)
Lack of community partnerships	(s15_q1f2)	(s15_q2f2)	(s15_q3f2)	(s15_q4f2)	(s15_q5f2)
Lack of staff expertise/training	(s15_q1f3)	(s15_q2f3)	(s15_q3f3)	(s15_q4f3)	(s15_q5f3)
Lack of understanding the issues	(s15_q1f4)	(s15_q2f4)	(s15_q3f4)	(s15_q4f4)	(s15_q5f4)
No dedicated funding	(s15_q1f5)	(s15_q2f5)	(s15_q3f5)	(s15_q4f5)	(s15_q5f5)
Not identified as a priority for health department	(s15_q1f6)	(s15_q2f6)	(s15_q3f6)	(s15_q4f6)	(s15_q5f6)
Not the responsibility of the health department	(s15_q1f7)	(s15_q2f7)	(s15_q3f7)	(s15_q4f7)	(s15_q5f7)
Other (please specify below)	(s15_q1f8)	(s15_q2f8)	(s15_q3f8)	(s15_q4f8)	(s15_q5f8)
None	(s15_q1f9)	(s15_q2f9)	(s15_q3f9)	(s15_q4f9)	(s15_q5f9)

Please specify additional barriers that prevented your LHD from conducting activities to address these focus areas, if any. (s15\_qftext)

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### Informatics Capacity

**19. Does your LHD have access to data or information from an electronic syndromic surveillance system that uses hospital emergency department (ED) data?** *(From your own LHD system, a state system, or other source).* (s16\_q1)

- [1] Yes, my LHD manages it (i.e., receives line-level data, conducts system testing and validation, etc.)
- [2] Yes, my LHD does not manage it
- [3] No → *(skip questions 20-22)*
- [4] Do not know → *(skip questions 20-22)*

**20. For each of the following detection activities, please indicate if your LHD specifically uses syndromic surveillance system or if your LHD uses another surveillance system. If your LHD does not use any surveillance system for the activity, select N/A**

*(For each row, select all that apply)*

**[Variable values: 0=unchecked; 1=checked]**

	Syndromic Surveillance System	OTHER Surveillance System*	N/A
<b>Bioterrorism events</b>	(s16_q2a1)	(s16_q2a2)	(s16_q2a3)
<b>Food-borne illnesses</b>	(s16_q2b1)	(s16_q2b2)	(s16_q2b3)
<b>Gastrointestinal illnesses</b>	(s16_q2c1)	(s16_q2c2)	(s16_q2c3)
<b>Influenza-like illnesses (ILI)*</b>	(s16_q2d1)	(s16_q2d2)	(s16_q2d3)
<b>Natural disaster-related illnesses or injuries</b>	(s16_q2e1)	(s16_q2e2)	(s16_q2e3)
<b>Non-communicable or chronic diseases</b>	(s16_q2f1)	(s16_q2f2)	(s16_q2f3)
<b>Opioid-related events</b>	(s16_q2g1)	(s16_q2g2)	(s16_q2g3)
<b>Vector-borne diseases</b>	(s16_q2h1)	(s16_q2h2)	(s16_q2h3)

**21. For respondents that selected "Other Surveillance System" to detect Influenza-like illnesses (ILI) in question 20, answer question 21.**

**What surveillance system does your LHD use to detect Influenza-like-illness (ILI)?** (s16\_q2dtext)

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**22. What syndromic surveillance application(s) does your LHD currently use? (Select all that apply) [Variable values: 0=unchecked; 1=checked]**

- (s16\_q3a) National Syndromic Surveillance Program -BioSense platform
- (s16\_q3b) EARS (*Early Aberration Response System*)
- (s16\_q3c) EpiCenter (*Health Monitoring Systems*)
- (s16\_q3d) ESSENCE (*Electronic Surveillance System for the Early Notification of Community-based Epidemics*)
- (s16\_q3e) RODS (*Real-time Outbreak and Disease Surveillance*)
- (s16\_q3f) Locally developed system
- (s16\_q3g) Other (please specify) (s16\_q3gtext)

**23. Please identify areas for IT/INFORMATICS staff development (may include for epidemiologists, analysts, and IT staff), and OTHER staff development related to information systems.**

*If your staff is sufficiently skilled or no development is needed, select N/A*

(For each row, select all that apply) [Variable values: 0=unchecked; 1=checked]

	IT/ INFORMATICS staff	OTHER staff	N/A
<b>Conducting business process analysis and redesign</b>	(s16_q4a1)	(s16_q4a2)	(s16_q4a3)
<b>Designing and running reports from information systems</b>	(s16_q4b1)	(s16_q4b2)	(s16_q4b3)
<b>Developing requirements for informatics system development</b>	(s16_q4c1)	(s16_q4c2)	(s16_q4c3)
<b>Project management</b>	(s16_q4d1)	(s16_q4d2)	(s16_q4d3)
<b>Using and interpreting clinical data from EHRs and other clinical sources</b>	(s16_q4e1)	(s16_q4e2)	(s16_q4e3)
<b>Using and interpreting data</b>	(s16_q4f1)	(s16_q4f2)	(s16_q4f3)
<b>Using geographical information systems</b>	(s16_q4g1)	(s16_q4g2)	(s16_q4g3)
<b>Using statistical or other analytical software</b>	(s16_q4h1)	(s16_q4h2)	(s16_q4h3)

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Definition
<b>Interoperability</b> describes the extent to which systems and devices can automatically exchange data, and interpret that shared data. For two systems to be interoperable, they must be able to automatically exchange data and subsequently present that data such that it can be understood by a user. ( <a href="http://www.himss.org/library/interoperability-standards/what-is-interoperability">http://www.himss.org/library/interoperability-standards/what-is-interoperability</a> )

**24. How interoperable are the information systems used by your LHD? (s16\_q5)**

- [1] All the systems are interoperable
- [2] Some systems are interoperable
- [3] None of the systems are interoperable

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### Environmental health services

Environmental health services refer to any activities that your LHD considers “environmental health.” Examples of environmental health services may include, but are not limited to: monitoring indoor air quality, vector control, land use planning, ground/surface water protection, hazmat response, hazardous waste disposal, air and noise pollution prevention, and/or other regulation, inspection, or licensing activities; food processing, regulation of food service establishments, and/or food safety education.

**25. For each of the following services categories, please first indicate if your LHD provided services or functions at any time between January 1 and December 31, 2017.**

(For each row, select Yes or No)

**Next, indicate if your LHD had to REDUCE and/or ELIMINATE any service for budgetary reasons between January 1 and December 31, 2017.** (select only one)

Between January 1 and December 31, 2017, your LHD						
	Provided services of functions any time		REDUCED services for budgetary reasons [1]	ELIMINATED services for budgetary reasons [2]	Did NOT reduce or eliminate services for budgetary reasons [3]	Don't know [4]
	Yes [1]	No [0]				
Air Pollution	(s17_q1a)		(s17_q1b)			
Animal Control	(s17_q2a)		(s17_q2b)			
Drinking Water Supply	(s17_q3a)		(s17_q3b)			
Emergency Preparedness	(s17_q4a)		(s17_q4b)			
Food Safety	(s17_q5a)		(s17_q5b)			
Groundwater Protection	(s17_q6a)		(s17_q6b)			
Hazardous Waste Disposal	(s17_q7a)		(s17_q7b)			
Hazmat Response	(s17_q8a)		(s17_q8b)			
Healthy Housing	(s17_q9a)		(s17_q9b)			
Indoor Air Quality	(s17_q10a)		(s17_q10b)			
Land Use Planning/Health Impact Assessment	(s17_q11a)		(s17_q11b)			
Outdoor Air Quality	(s17_q12a)		(s17_q12b)			
Pollution Prevention	(s17_q13a)		(s17_q13b)			
Recreational Water	(s17_q14a)		(s17_q14b)			
Surface Water Protection /Harmful Algal Blooms	(s17_q15a)		(s17_q15b)			
Vector Control	(s17_q16a)		(s17_q16b)			

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**26. For each of the following public health threats related to climate change, please indicate if your LHD addressed these issues at any time between January 1 and December 31, 2017. (Select all that apply) [Variable values: 0=unchecked; 1=checked]**

- (s17\_q17a) Anxiety, depression, or other mental health conditions
- (s17\_q17b) Droughts, forest fires, or brush fires
- (s17\_q17c) Food safety and security
- (s17\_q17d) Heat waves and heat-related illnesses
- (s17\_q17e) Housing for residents displaced by extreme weather events
- (s17\_q17f) Increased rodent complaints
- (s17\_q17g) Need for healthcare services for people with chronic conditions during service disruptions
- (s17\_q17h) Quality or quantity of fresh water available
- (s17\_q17i) Quality of the air, including air pollution
- (s17\_q17j) Storms (including hurricanes) and floods
- (s17\_q17k) Unsafe or ineffective sewage and septic system operation
- (s17\_q17l) Vector-borne infectious diseases
- (s17\_q17m) Water- and food-borne diseases
- (s17\_q17n) None of the above