

### **Course 1 – Assessing and Defining the Problem**

November 2020 Four Distance-Learning Sessions

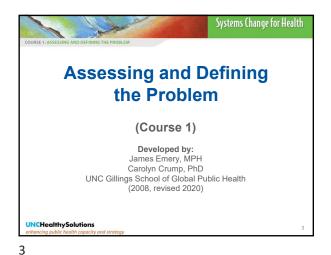
# **PPT slides**

#### **Provided to:**

Crater Health District (Virginia)

#### **Developed and Facilitated by:**

James Emery, MPH and Carolyn Crump, PhD *UNCHealthySolutions.web.unc.edu* 



Session 1 of 4

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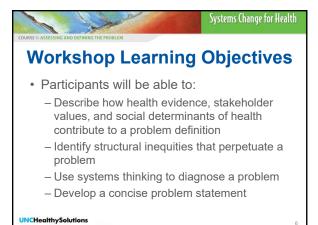
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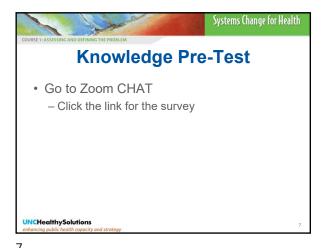
- · Tips for Virtual attendance
  - Keep microphone on Mute unless speaking
  - Use Chat to ask questions or comment
    - Can send a chat to one person or everyone
- · Workshop materials

**UNCHealthySolutions** 

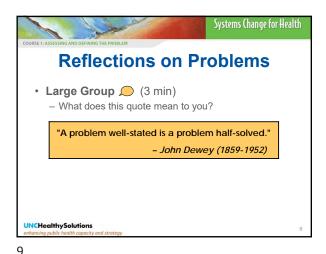
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Systems Change for Health **Workshop Agenda** Session #1 Session #3 · Noticing problems · Types of system solutions · Evidence vs. data · Stakeholder perspectives Session #4 Session #2 · Impact and feasibility · Root causes and inequities · Problem statement · Systems thinking · Structural diagnosis **UNCHealthySolutions** 



Systems Change for Health **Background** 

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Systems Change for Health **Definition of Policy**  Policy - Formal or informal rule that guides decisions and action. Policy can prohibit, require, encourage, or suggest. - System of policies (e.g., laws, rules, regulations, guidelines) that are enacted and enforced by social institutions to govern behavior • Types of laws: statutory, regulatory, case NCHealthySolutions

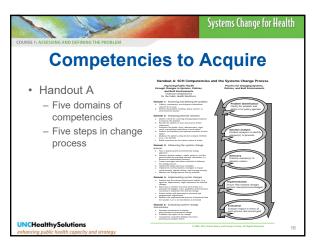
Systems Change for Health **Definition of Built Environment**  Built Environment - Human-created settings that influence behavior · Settings for living, learning, working, playing, and praying - Examples: · Macro: Industrial facility, school, sidewalks, suburban development, farm, park, downtown business district · Micro: Store layout and display cases, bus shelter **UNCHealthySolutions** 13

Systems Change for Health **Definition of System** - Set of inter-connected parts that form a whole - Examples: · Inter-organizational systems such as healthcare or finance systems that have multiple organizations, departments, groups, and procedures · Governmental institutions such as education, law enforcement · Production/Service processes such as food or manufacturing systems JNCHealthySolution:

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## Competency Curriculum

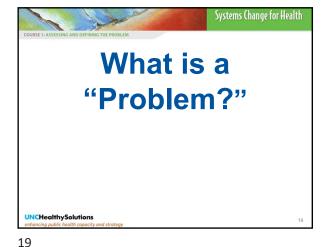
- · Series of courses
  - Introductory course (1 day)
  - Five skills-building courses (2 days each)
- · Draws from multiple disciplines
  - Public Health
  - Public Policy
  - Public Administration
  - Political Science
  - Urban Planning
  - Sociology

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Public Health Issues

Success stories

Drinking water and wastewater

Large scale energy distribution

Bacterial infections

Oral health

Consumer product safety

Safer motor vehicles

Other success stories?

Systems Change for Health



Systems Change for Health **Noticing Something is Wrong** 1. Events (e.g., crisis) and personal observation - Real or staged events that focus public attention 2. Data (research, surveillance, evaluation) - Change in size or rate of impact - Presence or increase in disparities - Ineffective outcomes 3. Claims of "wrongdoing" - Placing blame - Lawsuits **UNCHealthySolutions** 

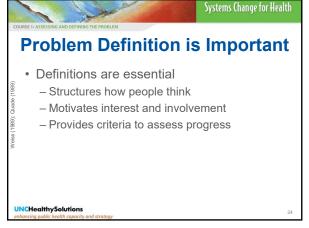
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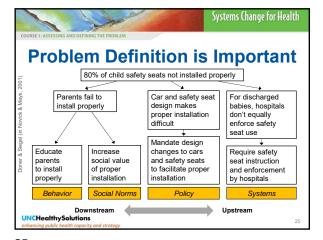
### Noticing an Issue is Not Enough

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· Problems are socially constructed - Agreement needed • Public concern - not private · Solution is required Examples Worker injury Poverty **UNCHealthySolutions** 

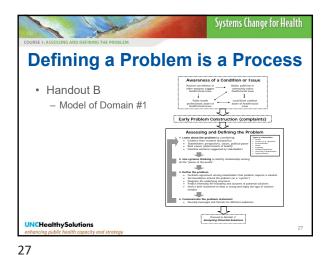


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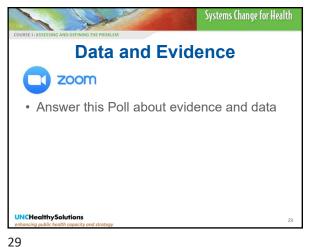
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Systems Change for Health **Learn About** the Problem Part 1. Evidence and Data NCHealthySolutions

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Systems Change for Health **Data and Evidence**  Data - Systematically collected information Quantity and quality can vary Evidence - Synthesized results from peer-reviewed research - Criteria for study results being considered · Number of available studies · Study design and execution · Size and consistency of reported effects NCHealthySolutions 30

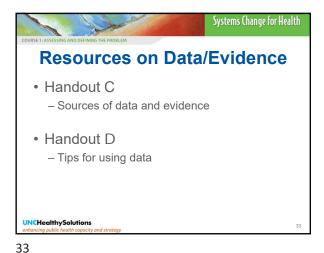
Systems Change for Health Make the Problem Relevant · Public policy is both science and art Evidence is necessary (the "science") - Evidence will need interpreting to become relevant (the "art") · Researchers want evidence to be used - Complain when "evidence-free policy" is enacted • Policymakers need relevance to be obvious - Complain when research lacks obvious policy conclusions **UNCHealthySolutions** 

Systems Change for Health **Make the Problem Relevant** · Political reality of making decisions - Multiple perspectives · Scientific (evidence) • Political (values) • Economic (resources) - Time is frequently limited - Decisions required whether or not evidence is available **UNCHealthySolution** 

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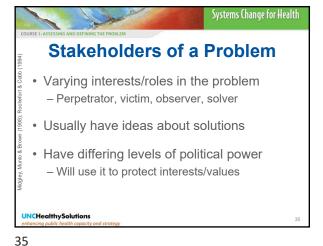
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Systems Change for Health **Learn About** the Problem Part 2. Stakeholder Perspectives and Values

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Systems Change for Health **Classifying Stakeholders** · Interest groups - Taxpayers, citizens, industry, lobbyists, advocacy groups, voluntary health organizations, media · Elected/Appointed officials - Legislators, governors - County commissioners, mayors - School Boards, superintendents (elected) Government administrators - Superintendents (hired), principals NCHealthySolutions

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Systems Change for Health **Analyze Stakeholder Perspective** · Analyze what you've learned about them - Definitions of the problem · Key words and images - Potential solutions - Current policy climate · Dominant political values · Policy agenda (popular issues) · Information about decision-makers · What stakeholders tell you reveals their values **UNCHealthySolutions** 

Systems Change for Health **Popular American Values**  Individualism Liberty and choice, personal and property rights, efficiency, prosperity, material growth, individual responsibility Community - Fairness and equity, opportunity, protection of common good, sustainable growth, collective, communitarian, social responsibility **UNCHealthySolution** 

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Systems Change for Health

APPLICATION

• Breakout Groups ♣ (25 min)

- Worksheet 1 (Questions #1-4)

• Record what you know about the situation

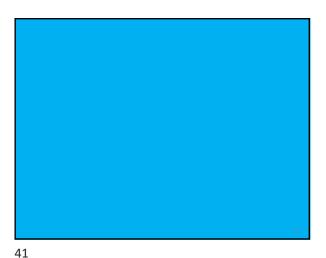
- Opportunity or problem you want to focus on (5 min)

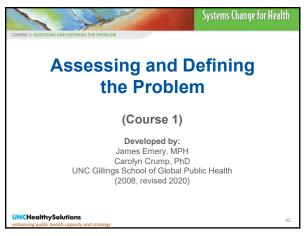
- Outcome disparities (differences) between groups (5 min)

- Evidence or data that clarify its importance (5 min)

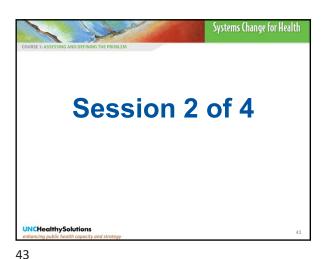
- Key stakeholders (10 min)

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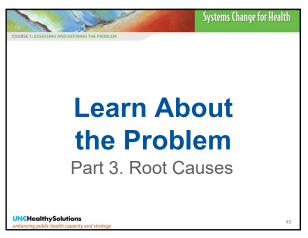




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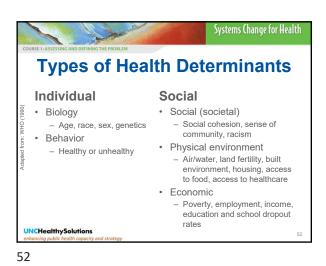




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Systems Change for Health What are Determinants of Health? Health Outcomes Health Determinants NCHealthySolutions 51

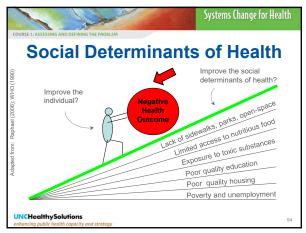


Systems Change for Health **Healthy People and Determinants**  Healthy People 1980, 1990, 2000 - Social Determinants of Health (SDOH) not mentioned Healthy People 2010 - SDOH mentioned per se - Commitment to improving health equity - Mentions social and physical "conditions" Healthy People 2020, 2030 - SDOH is explicitly one of the goals INCHealthySolutions

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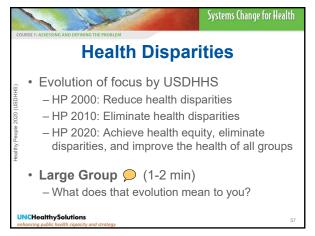




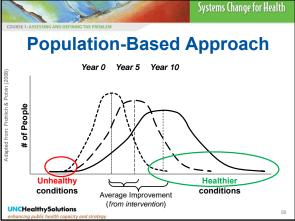
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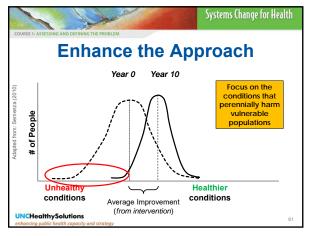
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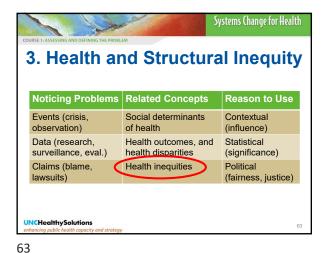


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Disparities Might Be Inequities

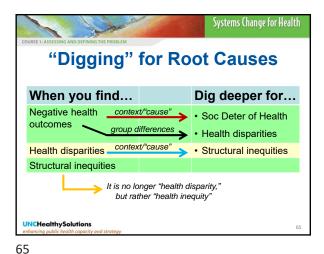
Health Disparity Health Outcome

Health Determinants

Structural Inequities

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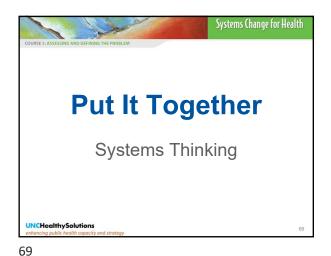


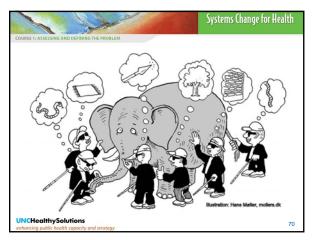
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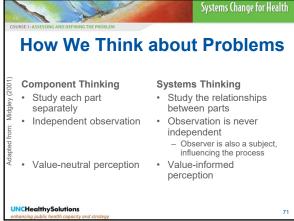




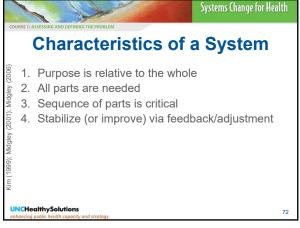
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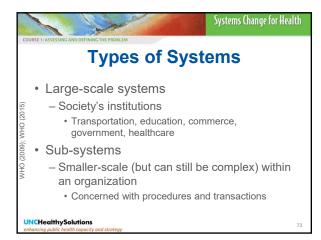




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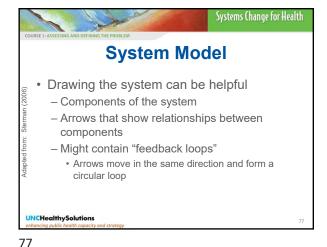




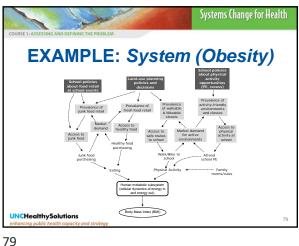
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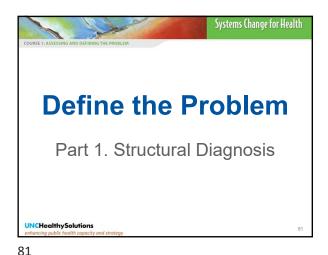
System Determinants (Layers) Policies regulating development of Regulation of private rental housing lead built environments Chipped paint, Paint chips Unhealthy exposed paint layers on windows/doors in rug fibers built environment Teething on Health Outcome High blood **ICHealthySolutions** lead levels



Systems Change for Health **EXAMPLE:** System (Tobacco) INCHealthySolution:

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Systems Change for Health

Identifying Problems in a System

1. Set a system boundary

2. Identify what is wrong in the system

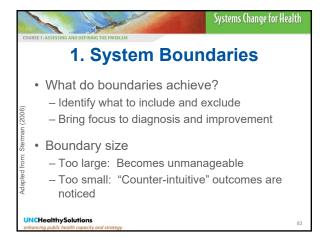
3. Diagnose the underlying structures that perpetuate any undesirable system dynamics

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Boundary Considerations

Balance multiple criteria

Stakeholder interests

Simplicity vs. complexity

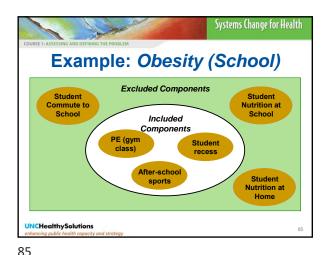
Readiness to make improvements

Consider multiple perspectives

Business, government, environment, justice, public health, education, transportation, etc.

Adapt as needed: boundaries are flexible

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Boundaries and Stakeholders

Boundary-setting is political

- When you set the boundary, you limit stakeholders

Size of the boundary

- Politically powerful want to shrink it

- Politically weak want to expand it

Changing the problem boundary

- Shrink: define problem in procedural terms

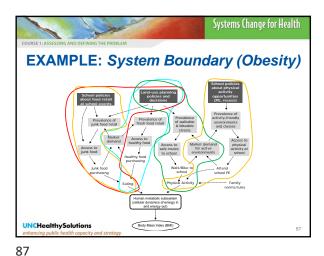
- Expand: connect problem to sweeping social themes (justice, democracy, liberty)

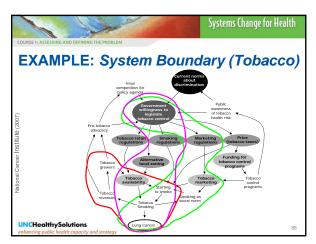
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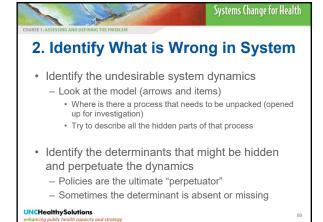
to Social Stakeholders

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Systems Change for Health **Structural Determinants (Layers)** Policies regulating development of Regulation of private rental housing lead built environments Chipped paint, Paint chips Unhealthy exposed paint layers on windows/doors in rug fibers built environment Teething on Health Outcome High blood **ICHealthySolutions** lead levels

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### 3. Diagnose the Structural Issues

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- Structure does not exist
- Weakness
  - Structure exists, but it is weak and needs improvement
- Implementation Failure
  - The structure exists and is sufficient in quality, but is not being implemented effectively

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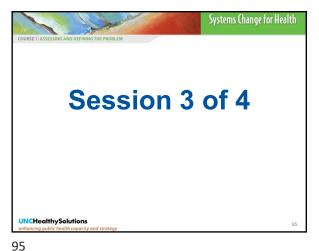
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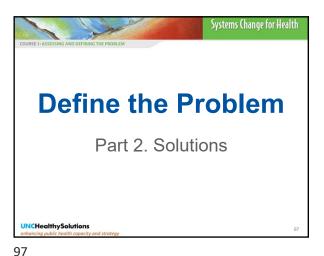


Systems Change for Health **Assessing and Defining** the Problem (Course 1) **Developed by:** James Emery, MPH Carolyn Crump, PhD UNC Gillings School of Global Public Health (2008, revised 2020) NCHealthySolutions

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Systems Change for Health **Workshop Agenda** Session #3 Session #1 · Noticing problems · Types of system solutions · Evidence vs. data · Stakeholder perspectives Session #2 Session #4 · Impact and feasibility · Root causes and inequities · Problem statement · Systems thinking · Structural diagnosis JNCHealthySolutions

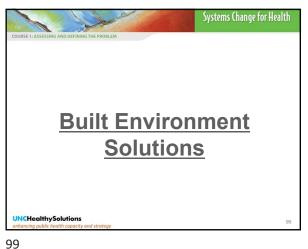


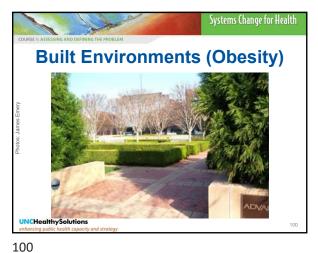
Systems Change for Health **Types of Solutions Built Environment** - Human-created settings that influence behavior · Facilitate and support, or inhibit and impede Policy - Formal or informal rules that guide decisions and action · Prohibit, require, encourage, suggest Linked processes, organizations, and institutions that dynamically interact to change the determinants of a problem Synergistic effect creates impact **UNCHealthySolutions** 

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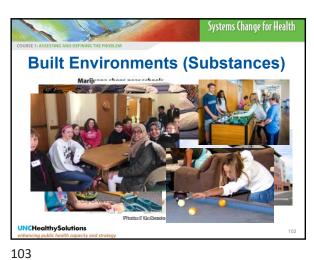
### **UNCHealthySolutions**



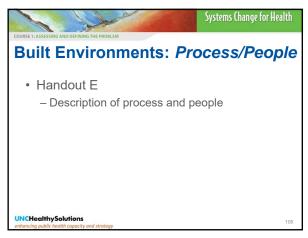






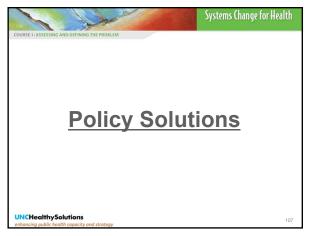


Systems Change for Health **Built Environments:** GIS Mapping





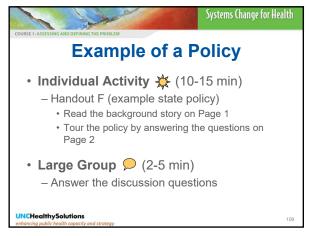
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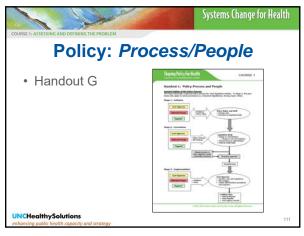
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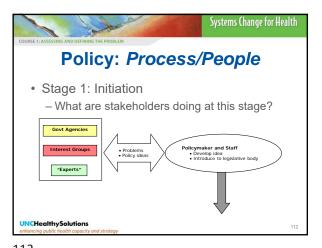


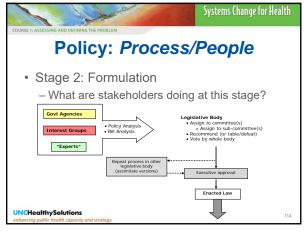
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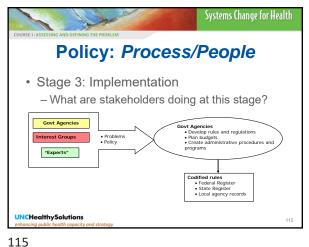
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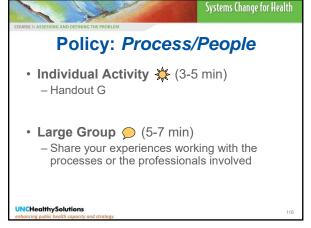




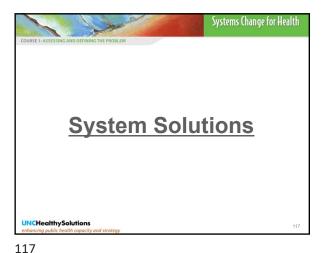


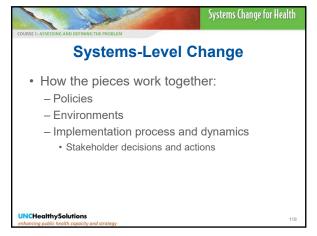






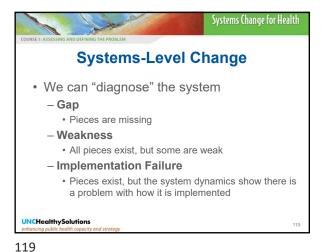






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Example: System Diagnosis

Lack of grocery stores with fresh produce

- Gap

No local incentive (tax break) to attract such stores

- Weakness

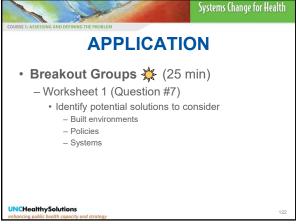
Incentive exists, but it is too small

- Implementation Failure

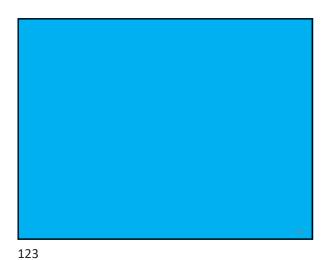
Incentives are sufficient, but store does not market itself effectively

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the Problem

(Course 1)

Developed by:
James Emery, MPH
Carolyn Crump, PhD
UNC Gillings School of Global Public Health
(2008, revised 2020)

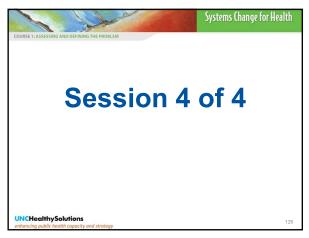
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**Assessing and Defining** 

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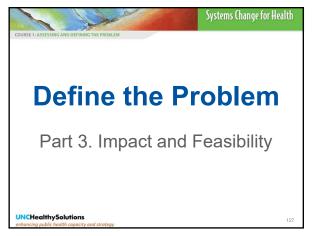
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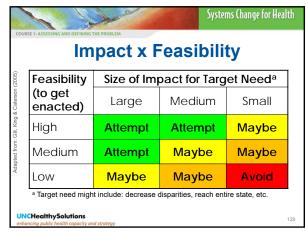
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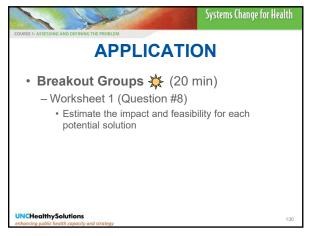
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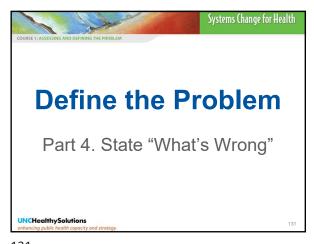


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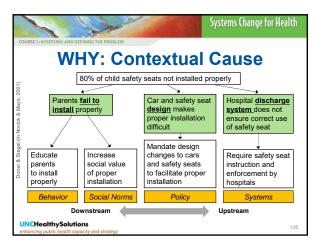






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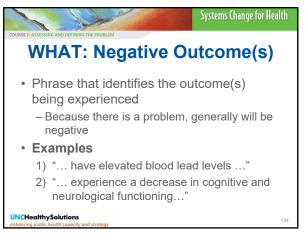
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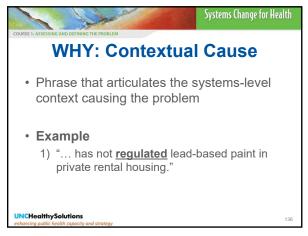
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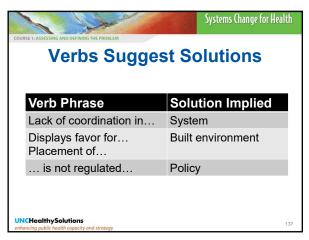


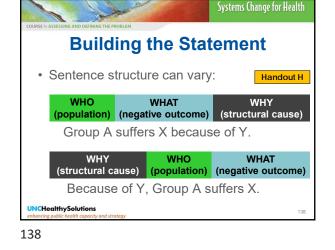
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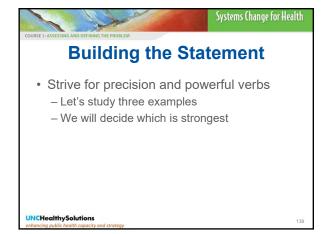


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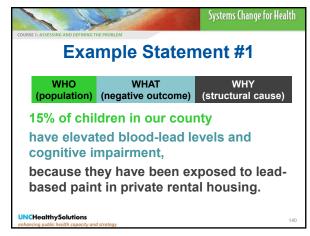




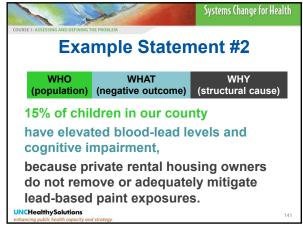


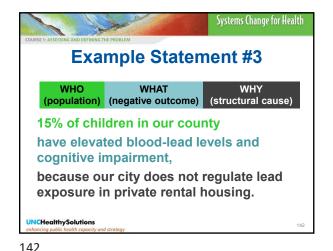


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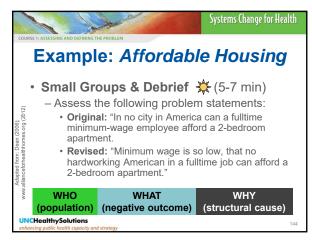
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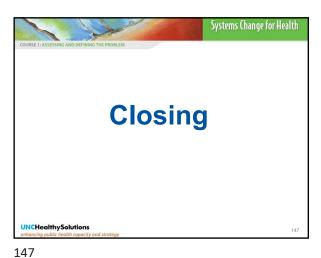


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**APPLICATION** • Breakout Groups 🔆 (35 min) - Worksheet 1 (Question #9) · Develop a problem statement NCHealthySolutions



Systems Change for Health Reference Handout Handout I JNCHealthySolutions

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