



# Finding Our Focus and Establishing Priorities for Obesity Solutions

## *Roundtable on Obesity Solutions*

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Dean, Professor, New Balance Chair in Childhood Nutrition

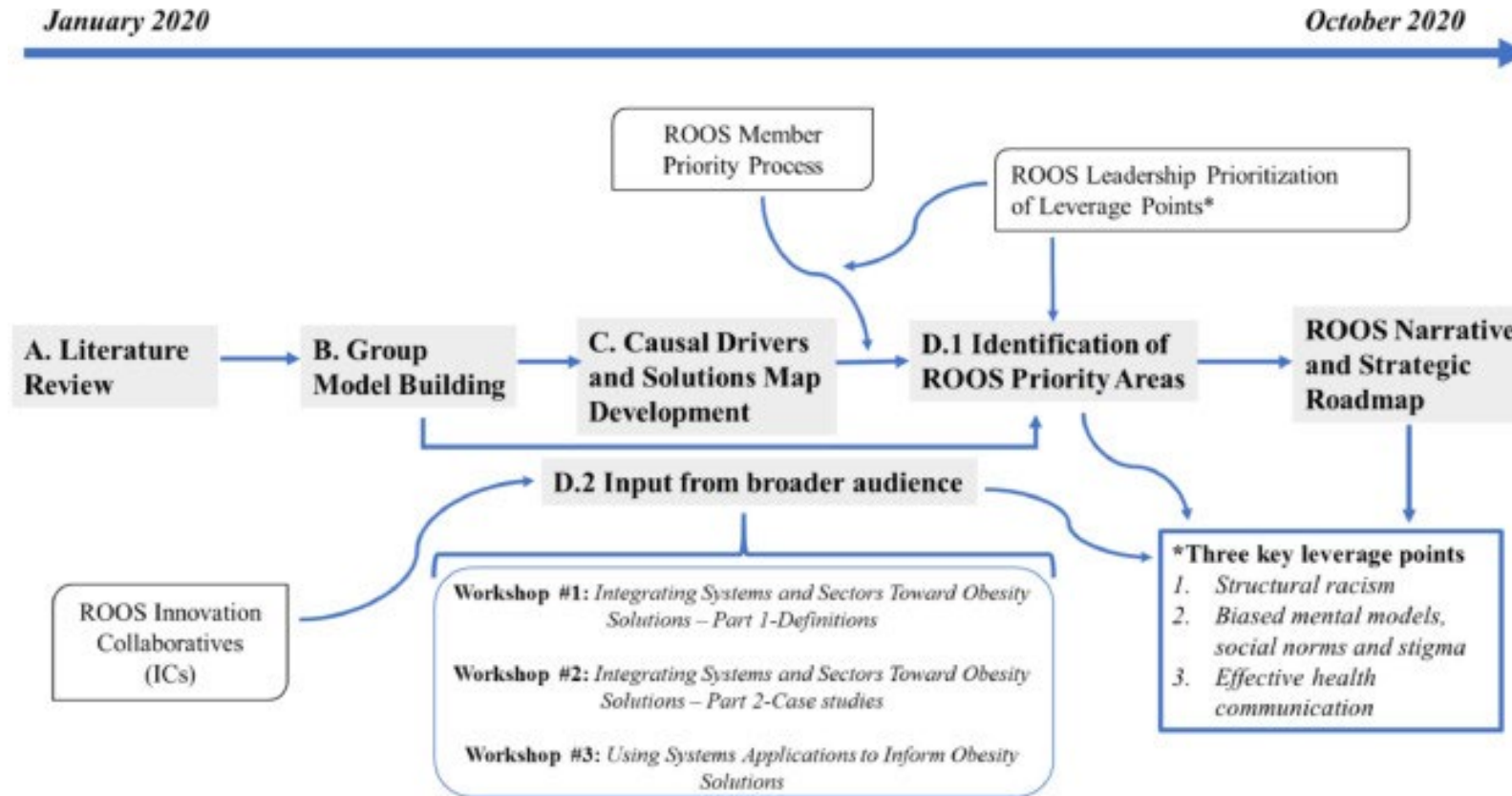
Friedman School of Nutrition Science and Policy  
Tufts University

# In 2019 we....

- Recognized the need and various “calls” to adopt a multi-sector systems perspective and apply that perspective to advance, scale, and spread effective solutions
- Attempted to drive a paradigm shift in the way we think about and address obesity risk and prevention strategies
- Developed a 5-year strategic plan to address obesity



# Using systems science methods to build a strategic plan

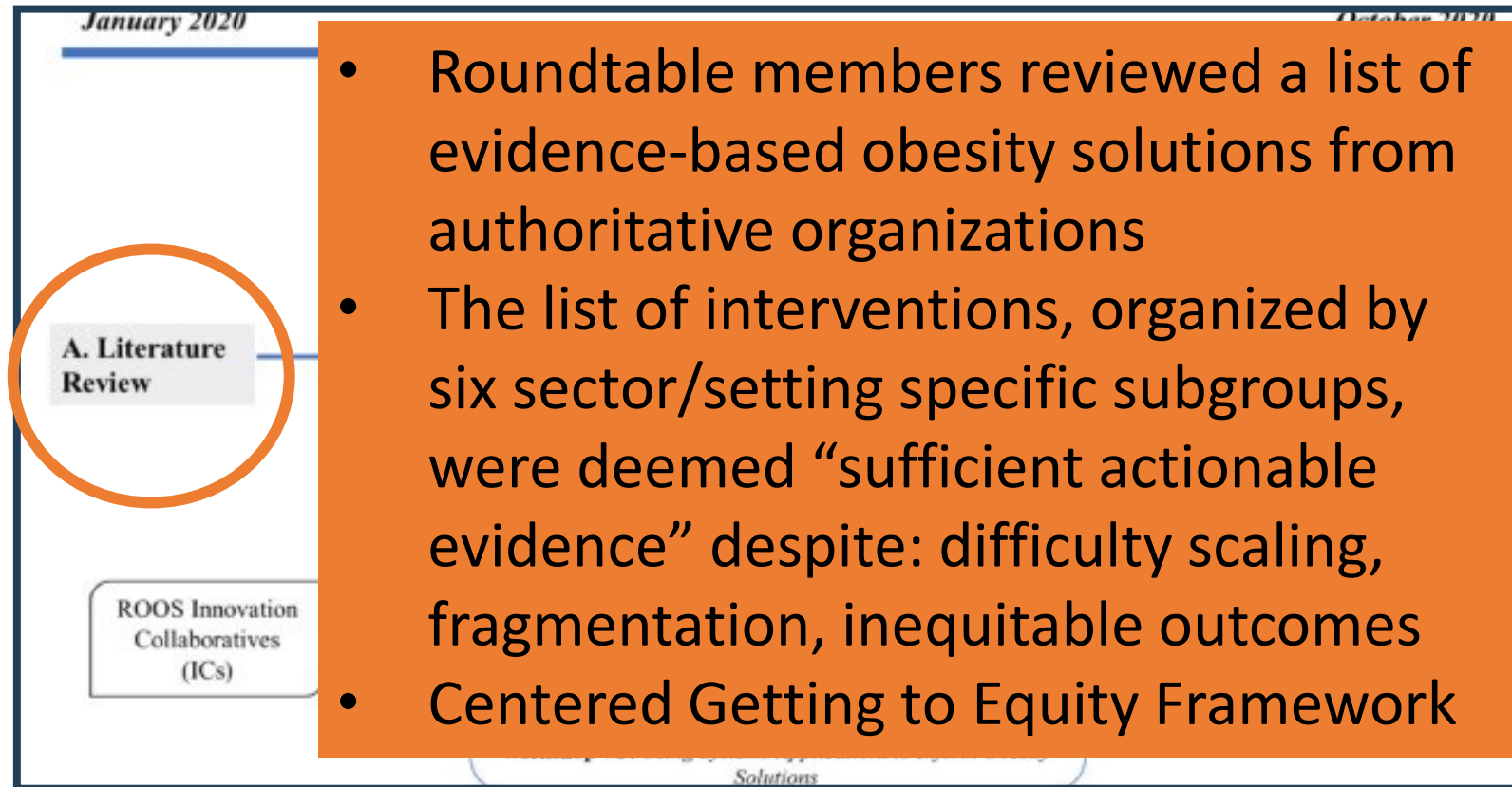


\*Meadows Framework (Process used for prioritizing leverage points)<sup>33</sup>

# Building Trust

- Over the year, the Roundtable leadership heard from its members and equalized their input to build trust and foster equitable dialogue.
- The Roundtable membership represents a variety of sectors (e.g. academia, business, philanthropy, government, lived experience), so group impact was important as well as individual member engagement.
- Interactive exercises (some anonymous) were completed to provide an opportunity to share individual concerns and solidify member trust and engagement.

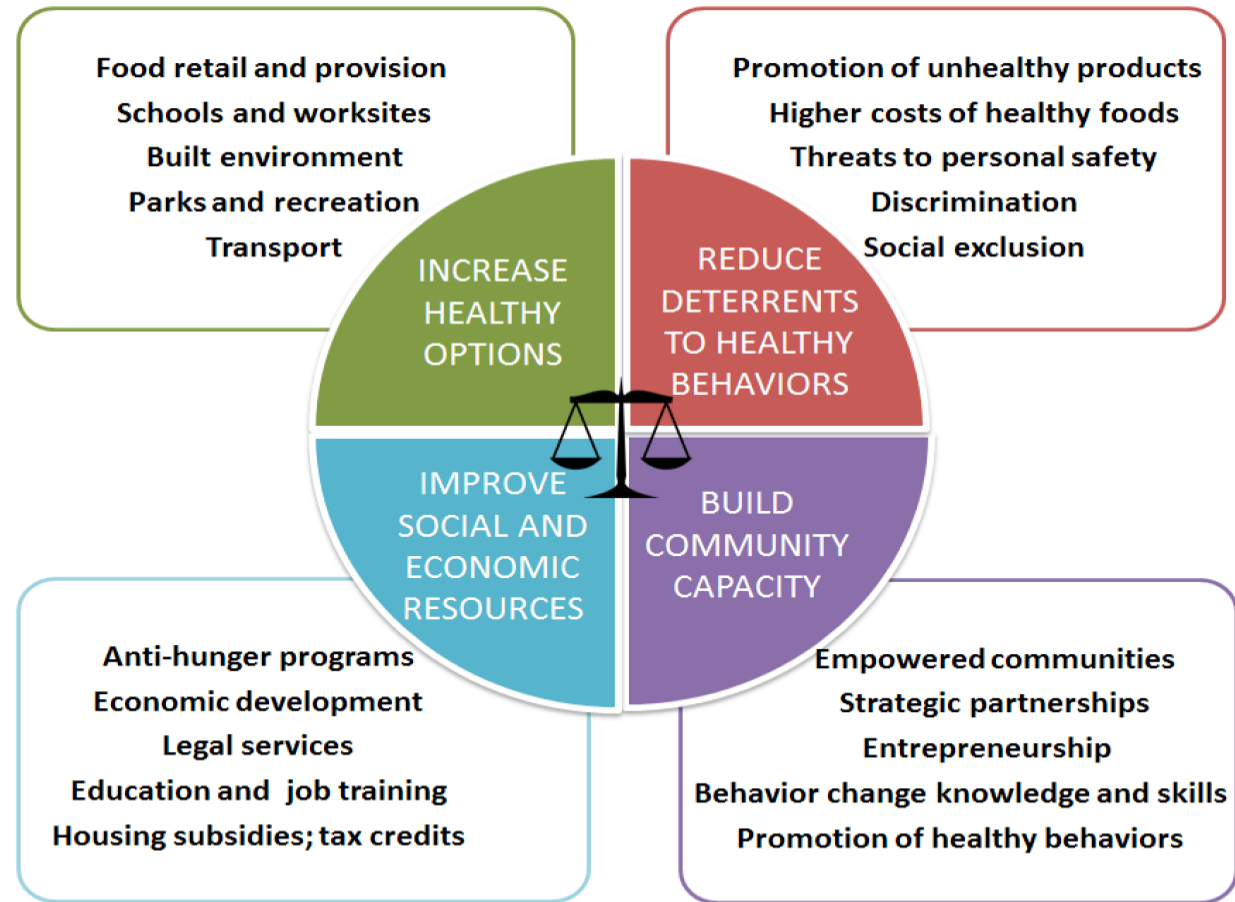
# Using of systems science methods to build a strategic plan



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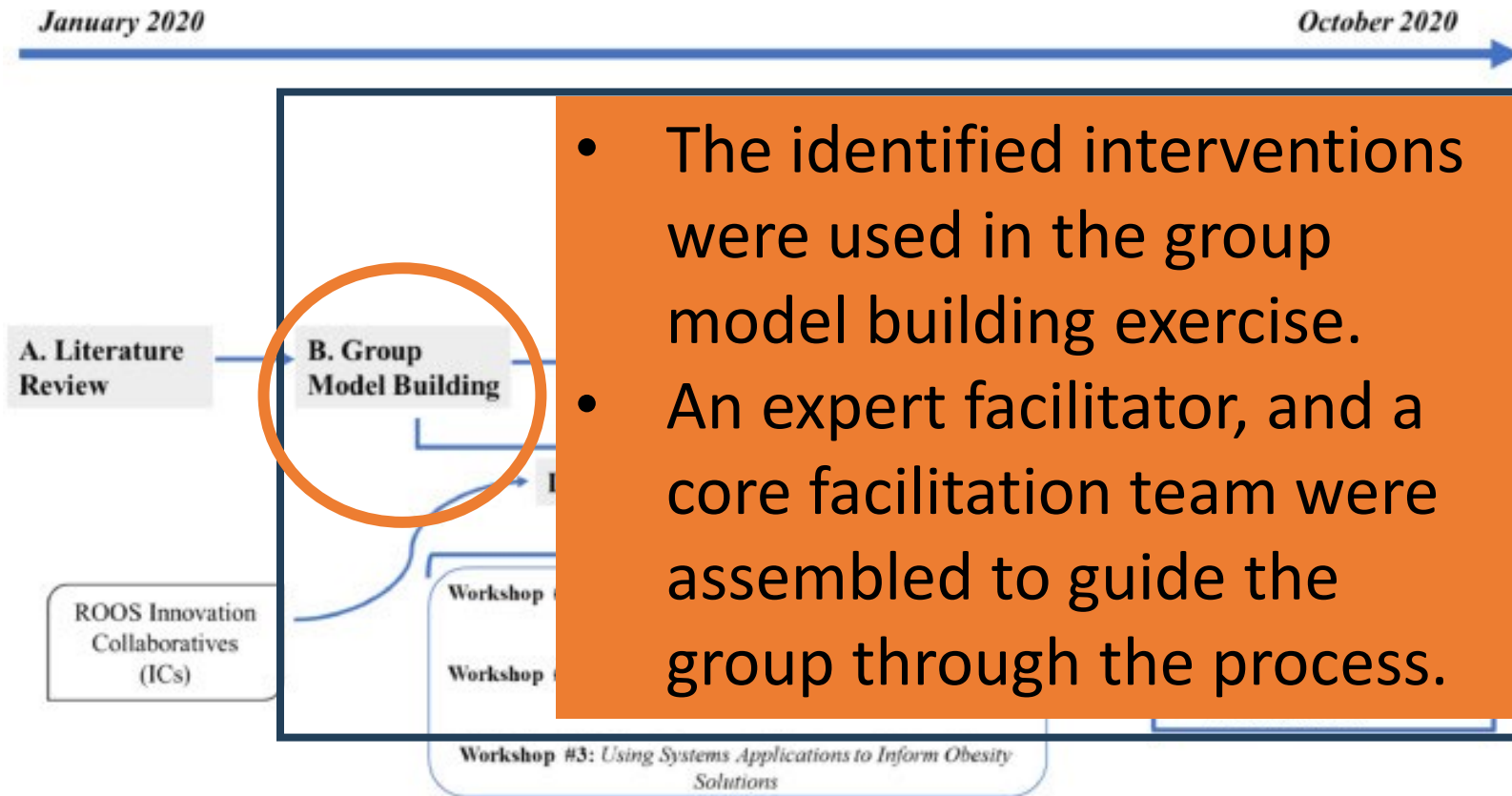
- Shift toward deeper determinants
- Pivoting from single solutions or single sector-based solutions to the complex entirety and how the variables interact
- Helped the group understand the need to identify structural drivers
- COVID-19 exacerbated inequities

# Getting to equity



**Figure 2 |** Proposed equity-oriented obesity prevention action framework to assist in selecting or evaluating combinations of interventions that incorporate considerations related to social disadvantage and social determinants of health.

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# ROOS Group Model Building Process

## Core model building team:

- Peter S. Hovmand, Ph.D., M.S.W., Larissa Calancie, Ph.D., Melanie Houston, M.S.W.

## Group model building session:

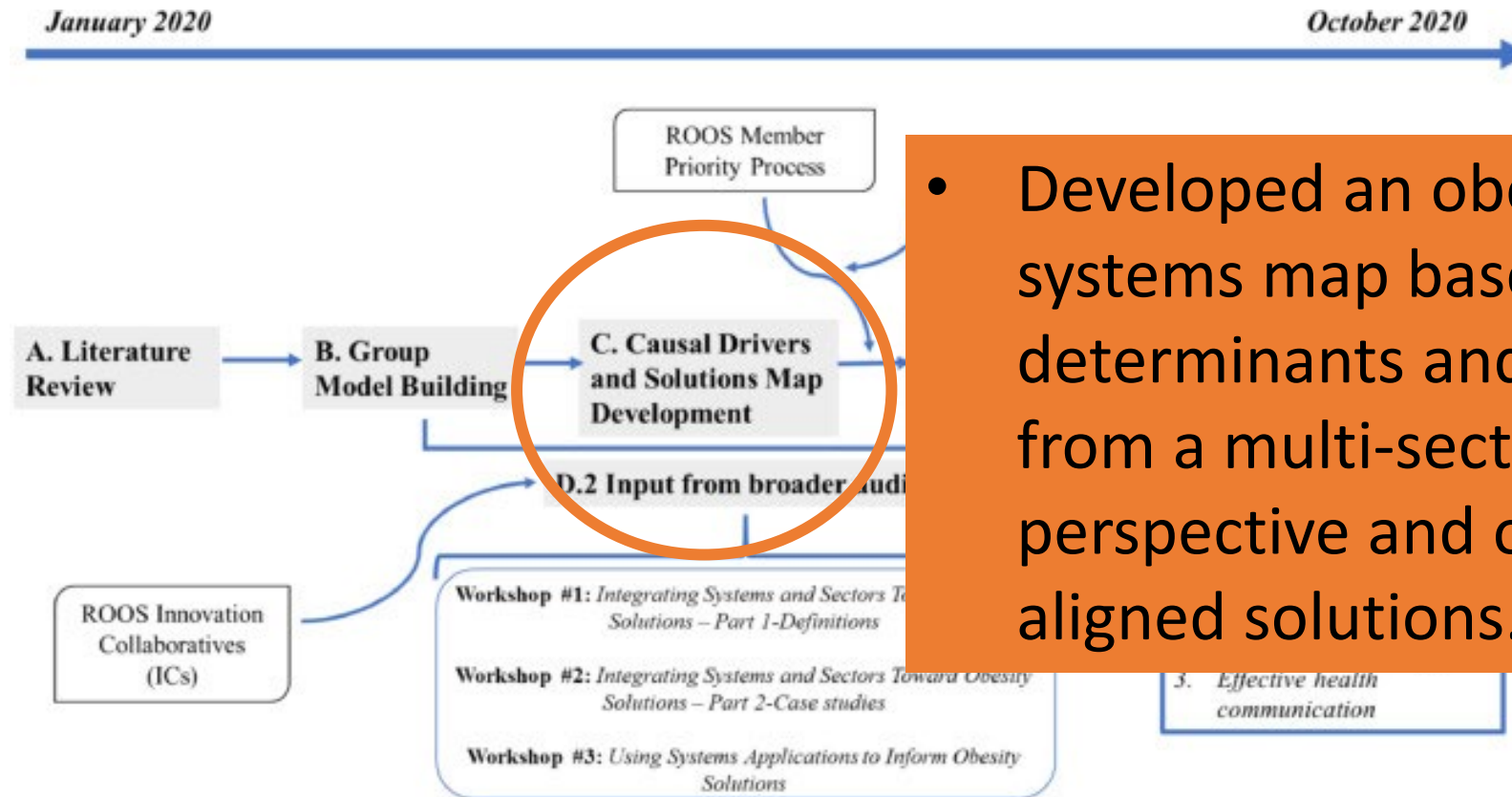
1. Introduction to systems thinking and concepts
2. “Hopes and Fears”
3. “Graphs Over Time”
4. “Dots Exercise
5. “Casual Mapping” in small groups
6. “Model Review - reflecting on the systems map, process and model-based insights

## Products:

- Preliminary drivers to populate a causal loop diagram
- Meeting summary and narrative to describe the process, outcomes, and next steps.



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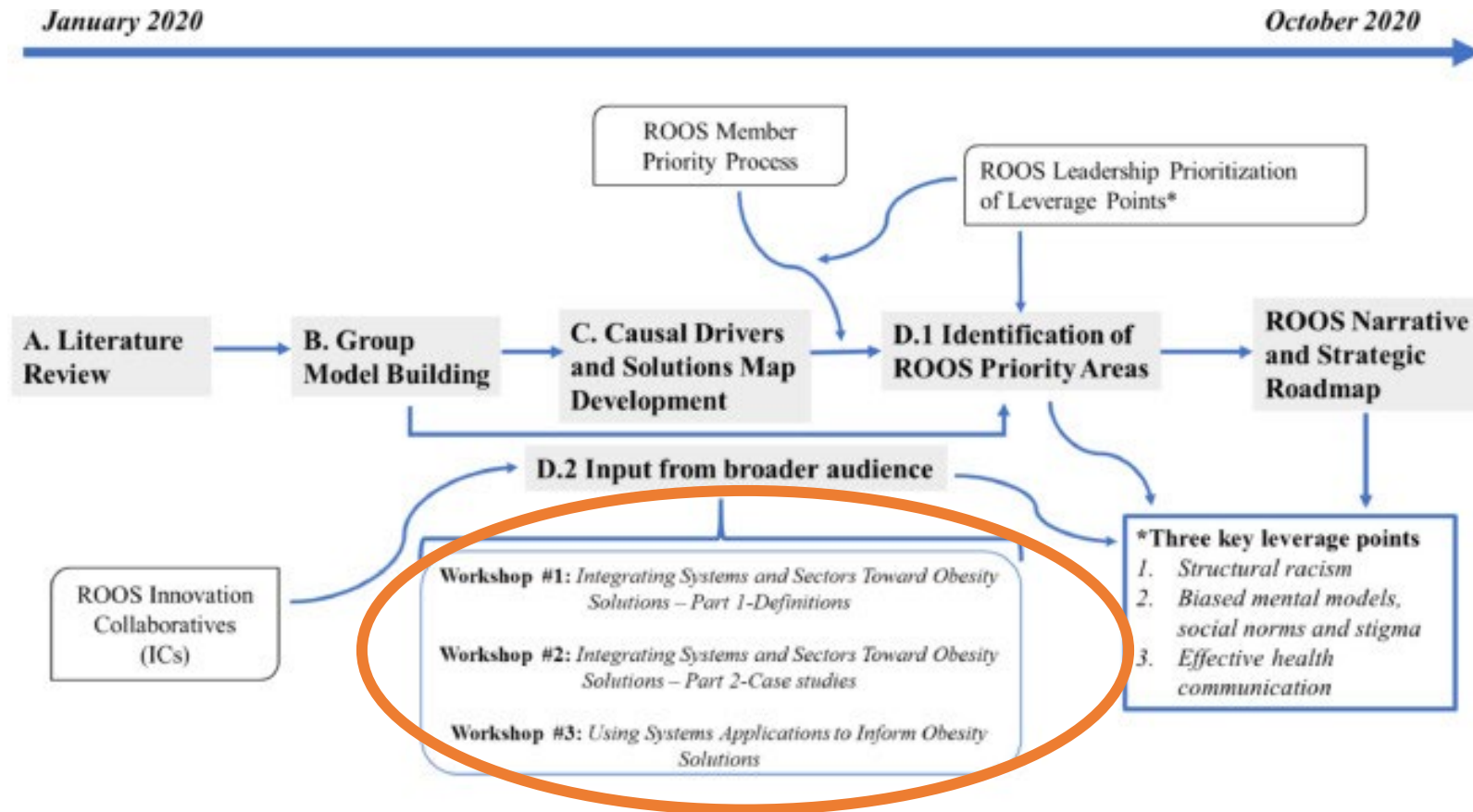


- Developed an obesity systems map based on determinants and drivers from a multi-sector perspective and overlaid with aligned solutions.

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# Integrating Systems and Sectors Toward Obesity Solutions: A Workshop (April/June 2020)

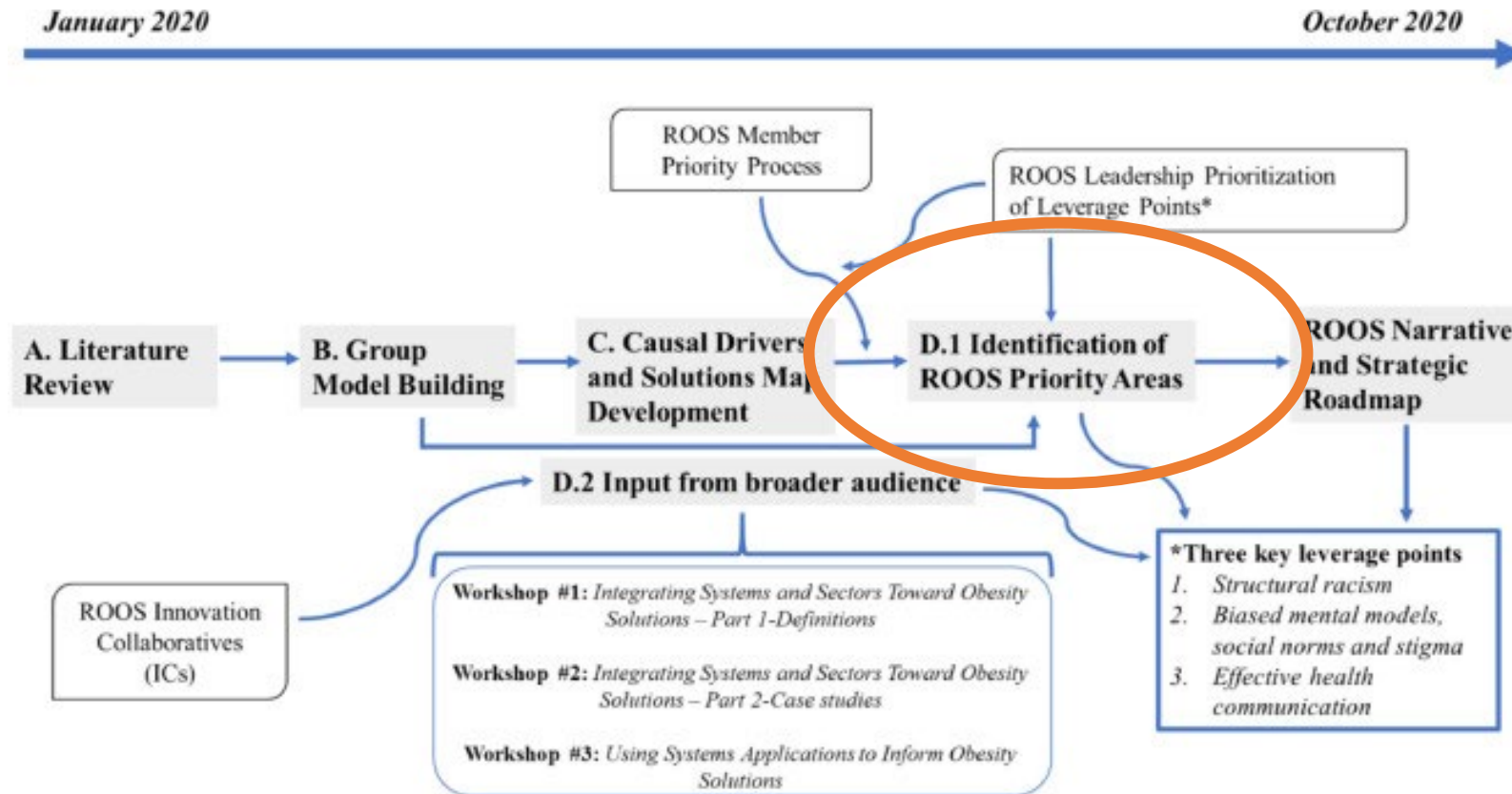
- Provided background on systems theories, methodologies, and applications.
- Addressed systems and the context for obesity, influencing systems, and examples from the field.
  - Explored how systems and contributing factors like inequity (i.e. social determinants), power dynamics, relationships, and capacity affect systems that can influence obesity, and how they can impact effective communications and cross-sector collaboration.



# Using Systems Applications to Inform Obesity Solutions: A Workshop (September 2020)

- Explored the applications of systems science to better understand and address obesity.
- Highlighted the real-world use of systems applications to explore how they can be used in the field of obesity and why systems applications can be valuable for different stakeholders (e.g., communities, private sector, policy makers).

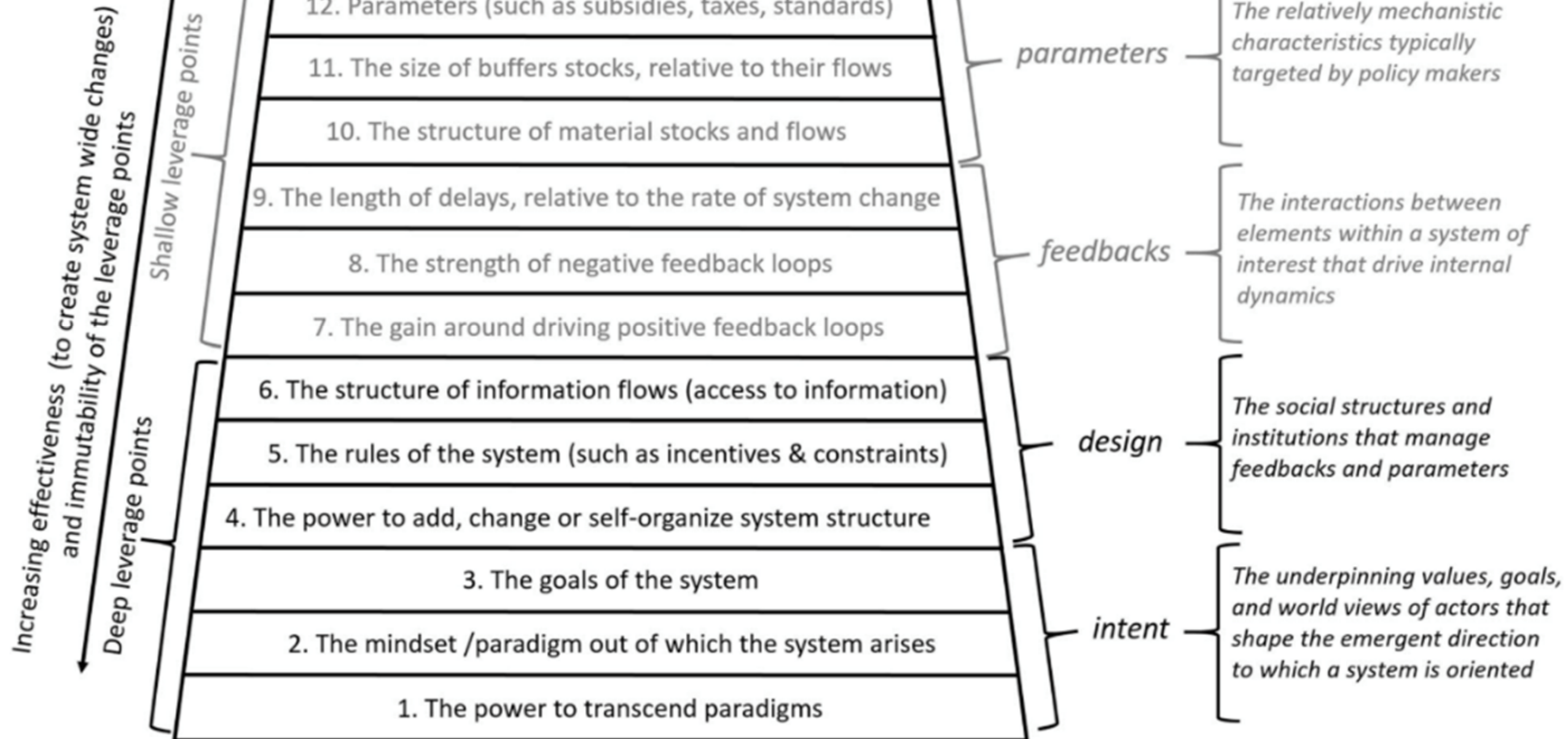
# Using systems science methods to build a strategic plan



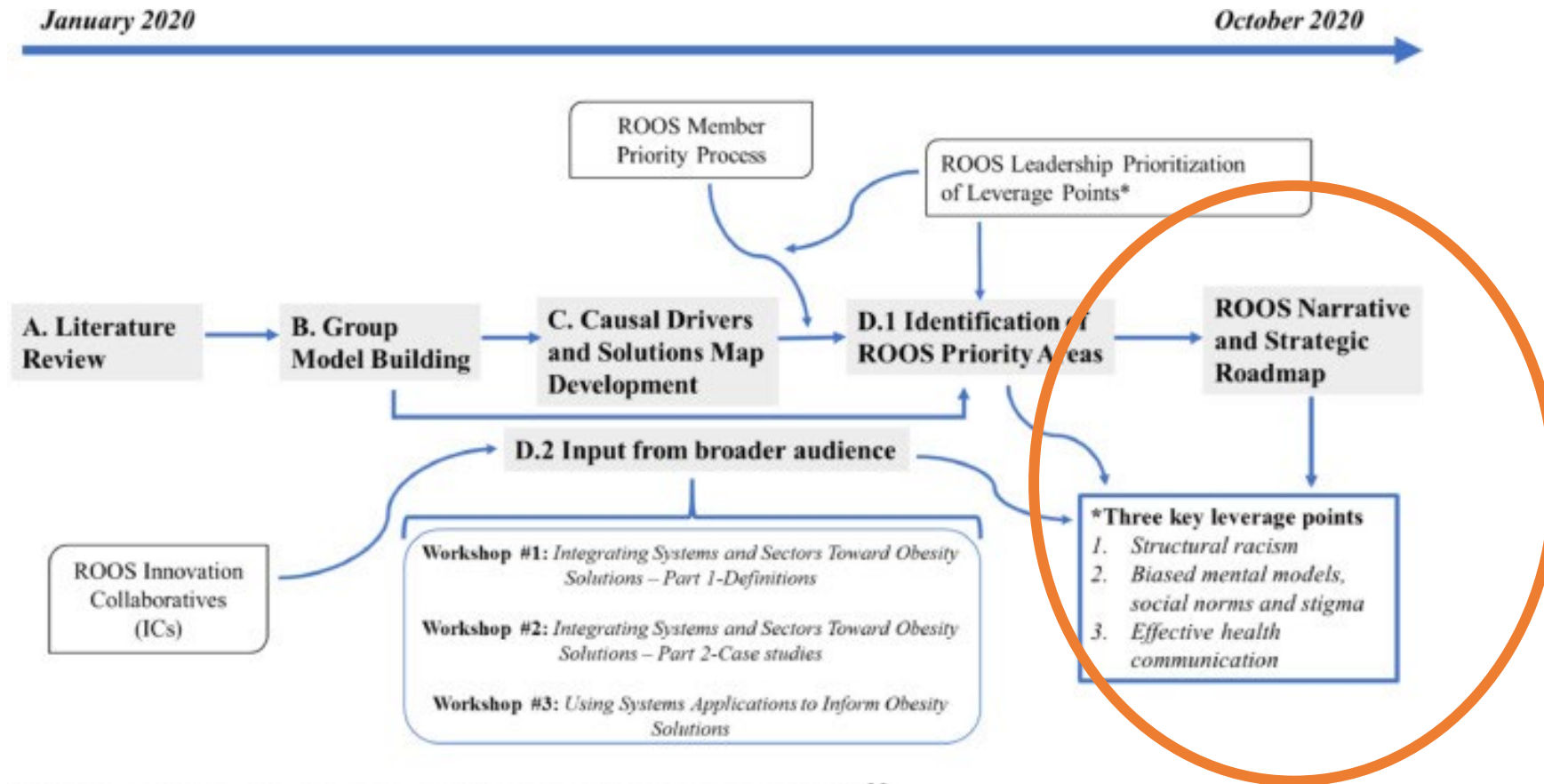
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## Meadows' (1999) place to intervene in a system

## System characteristics



# Using systems science methods to build a strategic plan



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# Most significant leverage points to address obesity with impact

- 1) Structural racism and social justice
- 2) Biased mental models and social norms
- 3) Effective health communications

Complementary to the mission, vision, and guiding principles of the ROOS, the obesity systems map, and narrative roadmap drove the ROOS activities over the next 4 years and served as a resource for researchers, organizations, and institutions involved with policy, prevention, and treatment of obesity.

