

Faculty of Design

Obesity in Western Pennsylvania

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OBESITY in Western PA

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INTRODUCTION:

Nearly 40% of adult Americans are diagnosed with obesity, a preventable disease with links to heart disease, the leading cause of death in the United States. Globally and nationally, one in five children and adolescents are overweight. Those who are obese are at much higher risk for premature death. Obesity does not discriminate—it is experienced by those who are at both ends of the socioeconomic tier. Needless to say, the high prevalence of obesity is a red flag, indicating a call for help.

Obesity comes as a result of consuming more calories than expended. Since obesity is preventable, then it would seem natural to simply cut back on the calorie intake and perhaps hop on an elliptical. However, without realizing the effects of the environmental, political, technological, and economic realm, is to not see the issue at all.

To understand the depth and complexity of this issue, our team created the following map to draw out causes and implications of the multi-faceted problem. This map uses categorical labels to develop a rich holistic picture of the problem, as defined by man made boundaries. By understanding obesity as a problem of many roots and within multiple hierarchies, our group created this visual guide that tells the story of obesity as we know it.

INTERVENTION: Mandated Public Policy **LEVERAGE POINT 5: RULES OF THE SYSTEM**

POLICY TODAY

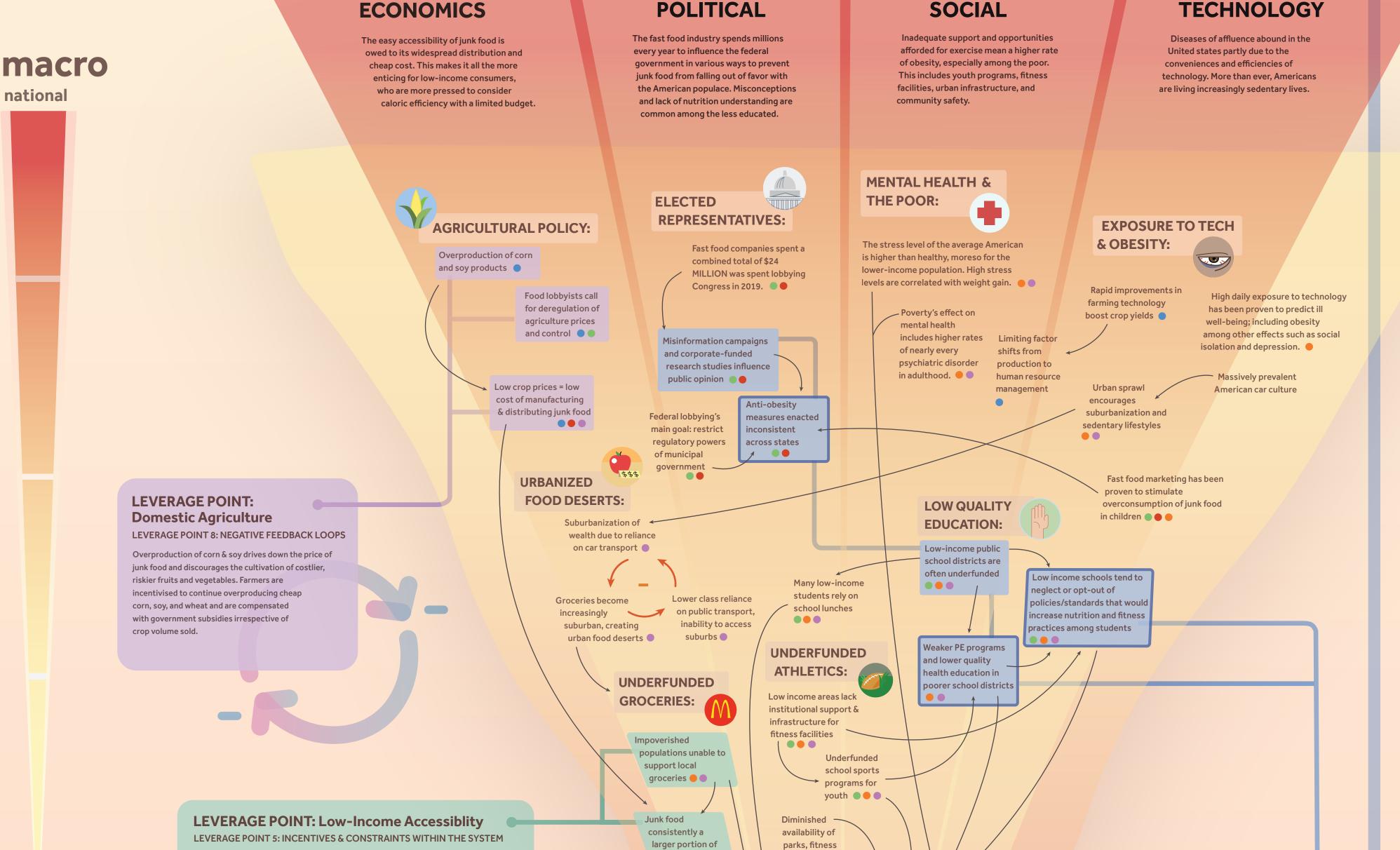
While there are policies in place for health and fitness standards, the lack of cohesive mandated legislation and regulation results the failure to implement change for state and local levels of government. This is a result of the parents' legal authority of children's wellbeing. This authority is the grounds for mandatory policies that only allow the state to intervene in cases of maltreatment instead of prevention-based policies. However, many parents do not have necessary resources or means to adequately support their child, especially for those in the lower class. These are all policies that the state of Pennsylvania does not currently implement.

INTERVENTION

By shifting the legal responsibility of children's wellbeing to mandated policies from the government, more preventative measures can be implemented at an earlier stage. If the government takes greater legal authority of wellbeing, then prevention can occur through the mandatory enforcement of pre-existing policies.

REQUIRED RECESS	NUTRITION STANDARDS	PE TIME REQUIREMENT	PHYSICAL ACTIVITY
Recess is required for school systems in states.	States enforce required licensed ECE programs to provide for dietary guidelines.	Elementary, middle, and high schools should require a minmum of education.	Standard definition of physical activity icnreases fiitness requirements.
5 states in the US implement this policy	26 states in the US implement this policy	18 states for elementary 14 states for middle 6 states for high	9 states in the US implement this policy

TECHNOLOGY



the poor

Among recipients of the food stamp program (SNAP), fresh produce is less often purchased than junk food. Through experimental incentive programs like the one administered by UCSD, fresh produce expenditures are matched dollar for dollar on a store-loyalty basis. This would allow low-income families to afford healthy food despite higher prices.

HEALTH EFFECTS:

Obesity contributes to the top three causes of

death in America; cancer, cardiac disease, and

musculoskeletal disorders. Its effects on the

American health expenses to indirect costs to

efficiency for businesses everywhere (higher transportation costs, insurance rates, paid

leave occurrences). Furthermore, children raised in an environment of obesity are more

likely to become obese themselves.

American economy range from 21% of all

diabetes. It also may cause depression,

cognitive decline, and a myriad of

individual micro

LEGEND Neg. Feedback Loop Stakeholders: Agricultural Industry



Government

American Youths

Low Income Population

Leverage Points:

Domestic Agriculture

Low-Income Access.

Education

Intervention

centers, gyms, etc. people's diet **POVERTY & LIFESTYLE:** Because obesity is exacerbated by systemic **POVERTY & DIET:** disadvantages, individuals often find difficulty in **Obesity is closely** addressing their correlated with poverty lifestyle choices. and food insecurity. Impoverished individuals lack the resources, time and capital to prevent obesity.

LEVERAGE POINT: Education LEVERAGE POINT 6: STRUCTURE OF INFORMATION FLOWS

Fast food giants like Coca-Cola and Nestle are known to fund disinformation campaigns through research groups and advocacy coalitions that divert attention away from the main contributing causes of obesity.