

### **Talk Plan**

- Food policy: motivation for intervention and setting optimal defaults
- Policies to promote healthy decision making
  - Pricing incentives
  - Improving information
  - Access to healthy food
  - o Changes in nutrition standards

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### What is Policy?

 A set of rules, laws, regulations adopted or proposed by governments, businesses, institutions or individuals



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### Why Intervene? Market Failures

- ✓ Externalities
- ✓ Information asymmetry

**Public goods** 

Monopoly

✓ Time-inconsistent preferences

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### **Economic Motivations**

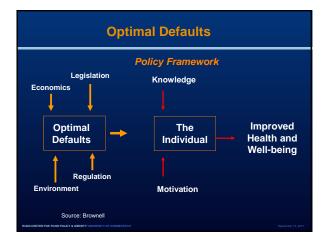


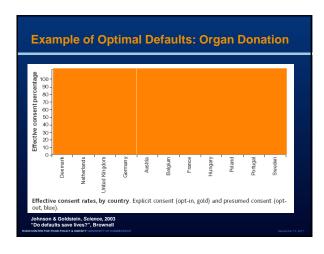
### **Additional Motivation**

- Food choices of children
  - o Children are NOT rational consumers
  - o Stronger motivation to regulate food for children
- Equity and economic justice concerns
   Disparities in health and health behaviors

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# Caloric imbalance Poor diet Too many calories Overconsumption of sugars, fats Lack of fiber, fruit and vegetables Inactivity or insufficient activity Caloric imbalance Food industry Increased portion size, widespread processed foods, low relative prices of high-energy poor-nutrient foods, food marketing Community environment Food access Transportation





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# Taxation of Sugary Drinks ARE YOU POURING ON THE POUNDS?

# Fast growth in consumption Causal links to weight gain, metabolic effects Low sales tax on soda in 34 states for revenue Now 42 gallons consumed per capita/year Large geographic variation Socio-demographic disparities Trends Shift away from soda to new categories Reduction in some populations, still high intake

What is a Sugary Dri	nk T	ax?
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 New excise tax on sweetened nonalcoholic refreshment beverages (+/- diet):

Per volume

Per sugar content Graduated or tiered tax

Primary purpose
 Generate revenue for specific programs
 Public health goals

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### **How Does it Get Passed?**

On the ballot for voters:

Shall the City collect a tax of one cent per ounce from the distributors of sugary drinks? e.g., San Francisco's Proposition V

State and/or local legislature:

Voting by state, municipal legislators, city health councils

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### **Arguments in Favor of Proposition V**

- San Francisco pays over \$87MM for direct and indirect costs of diabetes
- 46% of the population has diabetes or is on the path to getting it. For Latinos and African Americans, the rate is even higher
- 1/3 of children born after 2000 will develop diabetes during their lifetime
- \$15M in annual revenue could be used to support public health

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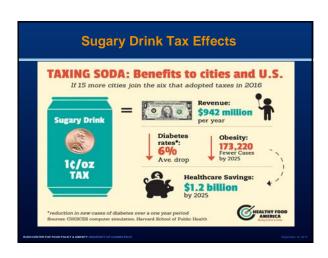
### **Arguments Against Proposition V**

- "The City could use the proceeds of the tax for any governmental purpose"
- "Now a few politicians want to make San Francisco even more expensive with a grocery tax — even though voters rejected a similar tax in 2014"
- "A regressive grocery tax that would disproportionately affect low-income and middle-class Americans"

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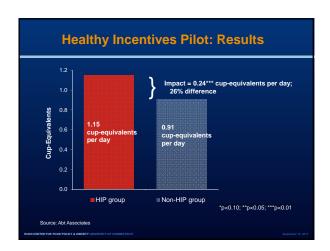
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### Sugary Drink Tax in 2017 | Sugary Drink Tax in



### Recommend a tax on sugary drinks of >=20% Subsidies for fresh FVs reducing prices by 10-30% are effective in increasing consumption Greater effects on net energy intake and weight when subsidies combined with taxation policies

### Healthy Incentives Pilot (HIP) 30% incentive for purchasing eligible fruit and vegetables Incentive as an added SNAP benefit Essentially a price subsidy Only for SNAP participants when using SNAP benefits Authorized by Farm Bill 2008 Pilot in Hampton county in MA Randomized control trial (RCT) 3 easy steps to eating better and saving money The County of the behalthyles 3 easy steps to eating better and saving money The County of the behalthyles 3 easy steps to eating better and saving money The County of the behalthyles



### **Healthy Incentives Pilot: Results**

- Healthy Eating Index increase from 57 to 62
  - 。 Increased FV intake
  - 。 Reduced refined grains
  - 。 No change in SSBs, SoFAAS
  - No change in total calories
  - o Did not look at BMI, health



- \$3.65 monthly in incentives per participant
  - 。 \$1.87 billion annually (FY2017)
  - o Limited understanding of HIP in the study

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### Woman, Infants and Children (WIC) Program



### 2009 WIC Food Package Revisions

- Combined with restrictions / reductions for cost neutrality and DGA
  - o Less milk
  - o Less juice
  - o Less cheese, eggs
  - No whole milk○ Women, kids 2-5yr
- New subsidiesWhole grains
  - $\circ \, \text{Targeted FVs}$



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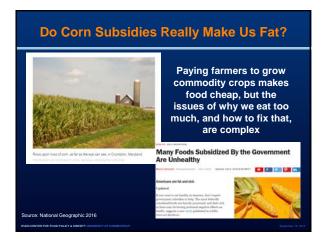
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Improved dieta intake	TY    Indicated: Biffective (1997)   Indicated: Biffettive (19
<ul><li>Less sat fat</li><li>Less juice</li><li>More FVs</li></ul>	Review.  Include 30 Rest Chees C. Housestell 8  Remail: 90 Rest C. Housestell 9  The healthfulness of Food and beverage purchases after the federal food package revisions: The case of two New England states.  National 3. This soft
o More whole gr	Balling  Total April 1984 April 1984 of 1997 Total Report April 1984 Total Report Repo
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### Incentive Programs: Effects Increased FV purchases and consumption Reduced food insecurity Increased food insecurity Reducing Food insecurity and improving Fruit and Vegetable Intake Among Farmers' Market Incentive Program Participants. Department of Connect Connect

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### **Subsidies Have Little Effect on Obesity**

- 1) The subsidies inputs account for only small share of overall retail cost of food
- 2) Agricultural policies are mixed and some of the policies push prices up rather than down
- Agricultural policies do not correlate well with differences in food prices and obesity rates over time

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### **Policies to Promote Healthy Decisions**

### 2. Improving Information

- Labeling
  - o What can be done?
  - o Menu labeling
  - o Nutrition facts labeling
  - o Front of package labeling
- Marketing
- Targeted campaigns

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### **Labeling: What Can Be Done?**

- 1. Voluntary company policies Industry self-regulation
- 2. Legislation and government regulation

Federal State Local

3. Litigation



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# \*\*Cows are injected with rBST (also known as rBGH) to increase milk production \*\*It of the contains high levels of Insulin Growth Factor1 (IGF-1), considered a potent tumor promoter \*\*FDA approved rBST in 1993 \*\*rBST is banned in Canada, Europe, and Japan \*\*STILL THE LIBERT OF THE LIBERT OF THE PRODUCTION OF THE Approved in Men and the production of marketails in section of section of the section of th





### State and municipal menu labeling laws Voluntary labeling Federal menu labeling law Part of the Affordable Care Act (ACA) 2010 Chain restaurants (n=20+) Calories next to item name Other nutritional info on request Effective on May 5, 2018 Preemption

# Motivation for Menu Labeling Impossible for consumers to assess calories in each meal Double cheeseburger, large-size fries and soda provide 1240 calories Recommendation for most people 1800-2200 calories/day Women need 600 calories less than men of the same age and activity level Motivation for Menu Labeling Wolf large in the four instance of the large in the four instance of the large in the larg

### **Preemption**

- A doctrine in law according to which federal law supersedes state or municipal law when federal law is in conflict with a state law
- Could also be used by states to prevent local laws
- Businesses want it to simplify operations and have one rule
- Public health & local implications vary

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### **Does Menu Labeling Work?**

- (Some) consumers change their orders
  - Most evaluations show small reduction
     Literature review: 8-18 calorie reduction per meal
     By 6% in NYC Starbucks: from 247 to 232 calories
- Restaurants reformulate their foods
  - o New ingredients
  - o Reduction in portion size
- Framing is important
  - o Visibility (font size, location), other items

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### **Industry Position on Menu Labeling**

- Too much time and money already invested in the ACA mandate
- Prefer new FDA rules with easier compliance rules
- Prevent state and local legislation that could be harder to implement
  - Restaurants lobbied Congress to include menu labeling in the ACA
  - "We believe it should stay," Cicely Simpson, executive vice president of government affairs and policy at the National Restaurant Association

Source: Politic

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### **Nutrition Facts Labeling** • Effect: • Intention: Better informed Help consumers consumers choose more healthy Yet, used mostly by educated consumers foods Educate consumers Some reformulation Incentivize food Health effects hard companies to offer to quantify more nutritious Cost of compliance products Total benefits exceed total costs



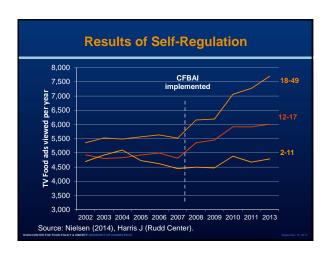
### GMO Labeling 9 GMO crops (mostly corn, soy), but 70% processed foods include GMO products State bill in VT requiring GMO labeling ("produced with genetic engineering")

# ■ "Safe and Accurate Food Labeling Bill" vs. "Deny Americans the Right-to-Know" (DARK act) ■ State law in VT overturned by federal bill in July 2016 ■ Preemption clause ■ Voluntary labeling and organic foods



# Current practices are "out of balance with healthful diets and contribute to an environment that puts their health at risk" (2005) INSTITUTE OF MEDICINE OF THE NATIONAL ACADEMIES

# Children's Food & Beverage Advertising Initiative (CFBAI) Fully implemented in 2008 17 participating companies "Shift the mix of foods advertised to children under 12 to encourage healthier dietary choices" CFBAI Participants CFBAI Participants CFBAI Participants Source: Harris J



# Marketing designed to appeal specifically to a group of consumers a company has identified as a business opportunity Campbel Introduces New Lafin-Inapited Campbel Introduces New Lafin-Inapited Campbel Introduces New Lafin-Inapited Condensed Soups EXECUTED IN CONTROD TO CONTROD TO

### **Implications**

- Targeted marketing doesn't have to be harmful
- Current practices likely contribute to health disparities
  - High levels of junk food advertising
  - Even less likely to promote healthier products

Source: Harris J

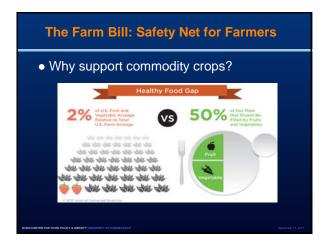
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### **Exposure to Food Marketing**

- Huge
- o 15 food TV commercials per child/day
- Unhealthy foods and beverages
  - o Fast food, high-sugar cereal, soda
- Has negative health effects
  - $\circ$  Food consumption, body weight
- Poorly regulated
  - o Industry self-regulation pledges

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# Community Campaigns Howard County Unsweetened TV and outdoor advertising Social media campaigns Work with pediatricians to improve messages about excessive sugar intake Advocating for local laws to ban sugary drinks on government property Sales of sugary drinks drop significantly | JAMA Internal Medicine | Original Investigation | | Association of a Community Campaign for Better Beverage Choices With Beverage Purchases From Supermarkets | Makeur & Schwarz, Ph.C. Gent. Schwack, MRN, Yan Yang Caw, MR, Jan J. Ph.D. Jandy Harro, MR. Tallowick Jan J. Ph. Jandy Harro, J. Standard Bent. J. MR. Lawrence J. Agest M.D. MR. Tallow J. Agest M.D. Lawrence J. Agest M.D. MR. Tallow J. Agest M.D. Man Harro, MR. M. Lawrence J. Agest M.D. MR. Tallow J. Agest M.D. Man Harro, MR. Man Harro, MR. Tallow J. Agest M.D. Man Harro, MR. Tallow J. M. Man Harro, MR. Tallow J. Agest M.D. Man Harro, MR. Tallow J. M. M. Man Harro, MR. Tallow J. Agest M.D. Man Harro, MR. Tallow J. M. M. Man Harro, MR. Tallow J. M. M. Man Harro, MR. Tallow J. M. M. Man Harro, MR. Tallow J. Agest M.D. Man Harro, MR. Tallow J. M. M. Man Harro, MR. M. Man

Policies to Promote Healthy Decisions	
3. Access to Healthy Foods	
<ul><li>Food deserts</li><li>Food swamps</li></ul>	
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Why Food Access Matters?	
People who do not have automobiles must	
rely on local markets where:	-
Most foods are processed	
Few fruits & vegetables (and poor quality)	
Price is high	
Poor dietary and health outcomes	
Equity concerns	
RIDG CENTER FOR FOLO POLICY & GRESTY GRIDECESTY OF CONSCIPCLY  September 18, 2017	
Recent Trends in Food Retail	
<ul> <li>Increased purchases in non-traditional</li> </ul>	-
grocery stores	-
<ul><li>Supercenters</li><li>Wal-Mart's expansion</li></ul>	
<ul> <li>Warehouse club stores</li> </ul>	
<ul><li>Costco, BJ's, Sam's Club</li><li>Dollar stores</li></ul>	
<ul> <li>Increased consolidation and vertical</li> </ul>	
integration	
<ul><li>Store own wholesale operations</li><li>Store own brands</li></ul>	
RISS CENTER FOR FOCE PACKET & GRESSITY ANY RESIST OF COMMICTICATE  Sepanses 13, 2017	







### **Approaches to Improving Food Access**

- Changes to food assistance programs
  - Revisions to WIC food packages
  - Minimum inventory requirements for SNAP stores
    A greater variety of healthy foods in all SNAP stores
- Incentives for new grocery stores
  - Tax breaks, subsidized credit
  - Zoning policies
- Improvements in existing stores
  - Healthy Corner store interventions

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### **Effects of WIC Food Package Revisions**

- Significant increase in the supply of healthy foods in WIC stores
  - Some improvement also in non-WIC stores
  - Greater improvements in low-income communities
- > Stores adapted quickly to new requirements
- Demand determines supply

Food retailer practices, attitudes and beliefs about the supply of healthy foods

Tatiana Andreyeva\*, Ann E Middleton, Michael W Long, Joerg Luedicke and Marlene B Schwartz

Source: Andreyeva et al 2011.

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### **Food Swamps**

- Areas with overabundance of highenergy, low nutrient foods compared to healthy food options
  - Fast food outlets
  - Convenience stores
  - Carry-out restaurants
- Unhealthy foods are more readily available than healthy foods



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Food Swamps and Food Deserts Often Overla	ар
Baltimore City Food Swamps  wherever healthy took is lacking whealthy food tends to be abundant	
Find Detect  Claract State (422)  Claract State (422)  Convey that Rethnioned (520)  (add  (120)	
Source: http://mdfoodsystemmap.org/wp-content/uploads/2013/01/Atlas_CLF-Food-Swamp_final.pdf	mber 15, 2017

### **Policy to Limit Food Swamps**

Zoning is a function of local government and typically used for planning; it defines use or development

- Local zoning ordinances
  - o Restrictions (bans) on opening new fast food outlets (moratorium)
  - o Bans on drive-through outlets
  - o Restrictions on fast food outlets near schools
  - o Quotas on fast food outlets
  - o Incentives to open farmers markets
  - o Effort to bring grocery stores/supermarkets

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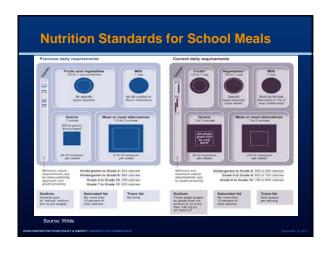
### The South Los Angeles Fast Food Ban

- 2008 law banned construction of stand-alone fast food restaurants in South LA (32-square mile area)
  - o This type of restaurants was rare in the area
  - Many fast-food outlets are in strip malls and food courts, which were not affected by the ban
     17 new outlets opened between 2008-2012
  - Almost half of new food permits were for convenience stores that sell soda and unhealthy food
- Research showed <u>no effect</u> on obesity or diet quality in this neighborhood

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### A. Nutrition Standards School meals Childcare Portion size

### Nutrition Standards for School Meals • Enacted by 2010 Healthy, Hungry-Free Kids Act (HHFKA) • Implementation starting 2012 • Certain provisions implemented later • Aimed at aligning school meals with Dietary Guidelines for Americans



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### Upcoming Changes in Childcare Updated meal patterns for the Child and Adult Care Food Program (CACFP) Tighter nutrition standards starting 10/1/17

- Licensing laws in many states make this update relevant to non-CACFP settings
   Supposed to follow CACFP standards
  - Supposed to follow CACFP standards



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### **Implications of CACFP Updates**

A health impact assessment of the CACFP's updates

Changes will improve children's diets, even many not served by CACFP

The assessment concluded that some of the new standards, such as updated requirements for whole grains, fruits, and vegetables, will translate into health benef for children. For example:

The nutritional quality of CACFP-funded meals and snacks should improve unde
the new standards, increasing enrolled children's intake of whole grains and
vegetables, decreasing their consumption of grain-based desserts, and having a
positive overall impact on their health. The changes are especially important
because young children in the United States typically do not eat enough whole
grains, fruit, or vegetables and consume too much fat, salt, and added sugar.

Source: Pew Report. Healthier Nutrition Standards Benefit Kids: A Health Impact Assessment of the Child and Adult Care Food Program's updated rules for meals and snacks

### Dramatic increase in portion size in full-service and fast food restaurants Most restaurant entrees exceed recommended calories "The more you are served, the more you eat"

### NYC proposed a ban on sale of super-size sugary beverages Motivated by public health goals Defeated in courts Sugary drinks over 16-ounces banned in New York City, Board of Health votes

### Industry Position on Portion Size National Restaurant Association "Smaller portions, big benefits" Help create a solution Offer more-healthful meals Provide smaller portions (<700 calories/meal) Offer ultra-light portions (<400 calories/meal) Alter perception healthy food doesn't taste good Use smaller plates and taller glasses Add fruit and vegetables to improve plate attractiveness

Highlights	
Summary of the state of the sta	
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### **Key Points to Remember**

- System-wide lack of optimal defaults for healthy food choice
- 2) Considerable evidence that pricing incentives affect food choice
- 3) Limited evidence that information improvements affect food choice for all, yet the right to know matters to many

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### **Key Points to Remember**

- 4) Food access interventions matter for equity concerns perhaps more than for food choice
- 5) Changes in nutrition standards for schools and childcare settings have great potential for establishing healthy choices early on
- 6) Cost-effectiveness rarely assessed, but should be part of decision-making

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