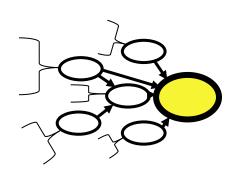
Behavioral Event Modeling: Designing Interventions That Stick

Brian Wansink Cornell University

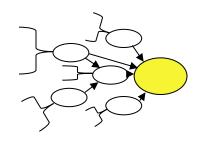








Behavioral Event Modeling







- Objective of Behavioral Event Modeling
- Preventing 3rd Degree Murder



- Preventing Restaurant DUIs
- Using Behavioral Event Modeling to start a Movement
- Smarter Lunchroom Movement





Traditional Way of Predicting Behavior

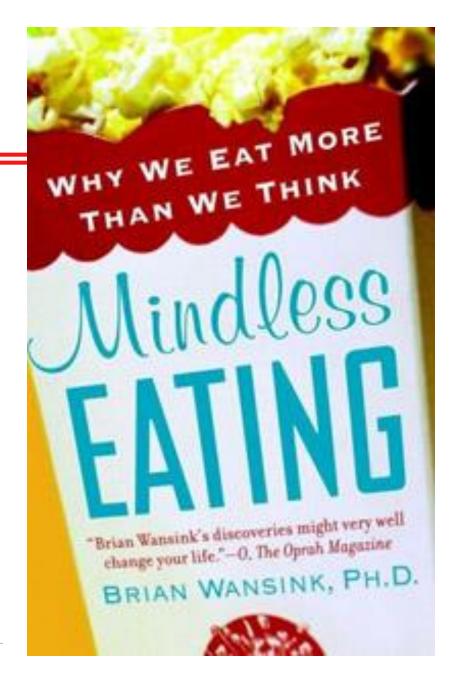
Attitude-based

Questions
Surveys
Focus groups
In-depth interviews



Our Mission

To Discover
Transforming
Solutions that Help
People Eat Better







Two Ways to Predict Behavior

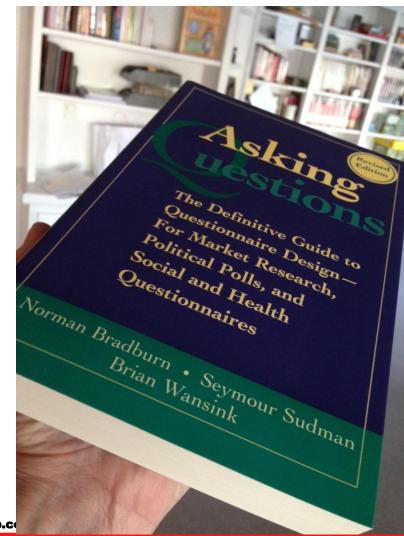
Attitude-based

Antecedent-Based

Questions
Surveys
Focus groups
In-depth interviews

Behavioral Event Modeling
Laddering
Story Telling Method
Inside Sources

A Strange Phone Call in 2004...



Behavioral Event Modeling

- Step 1. Identify critical intervention points, inflection points, teachable moments

 For weight loss:
- Step 2. Identify a specific, clean, simple, binary, behavioral solution that is objective

For drinking:

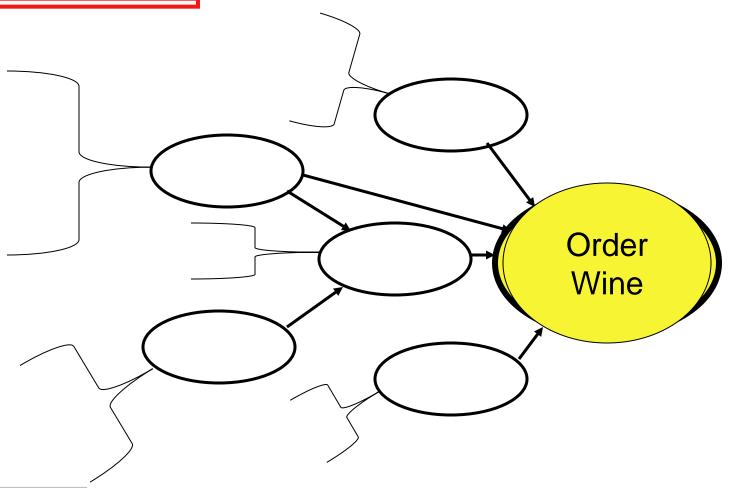
- Step 3. Test
 - a) Lab & focus group, b) field study & debriefing, c)
- come scaled study for best practices, d) launch

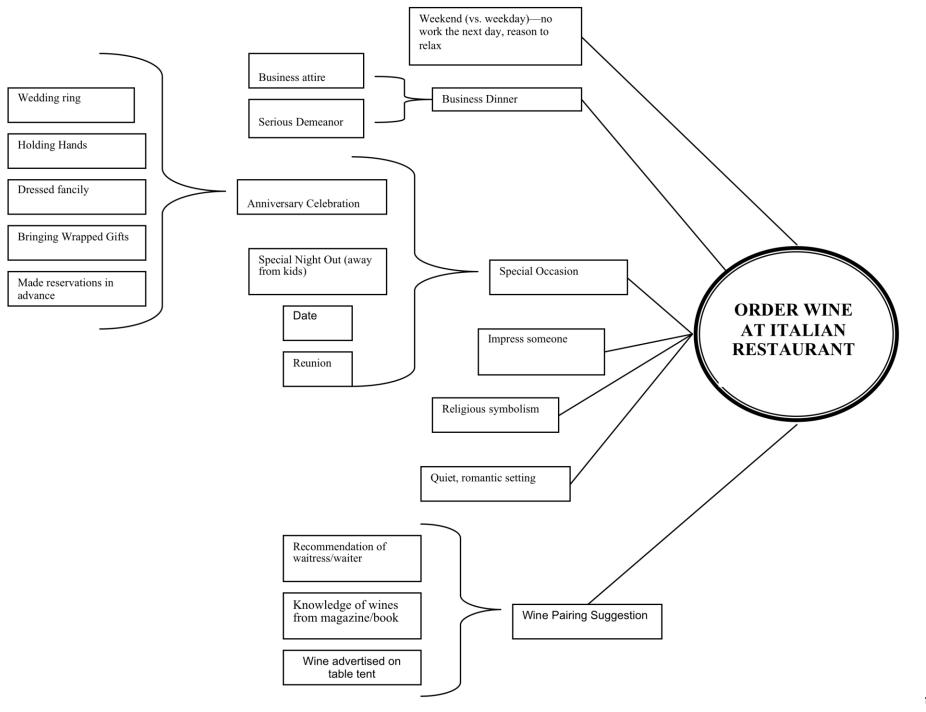


The Italian Garden's Problem



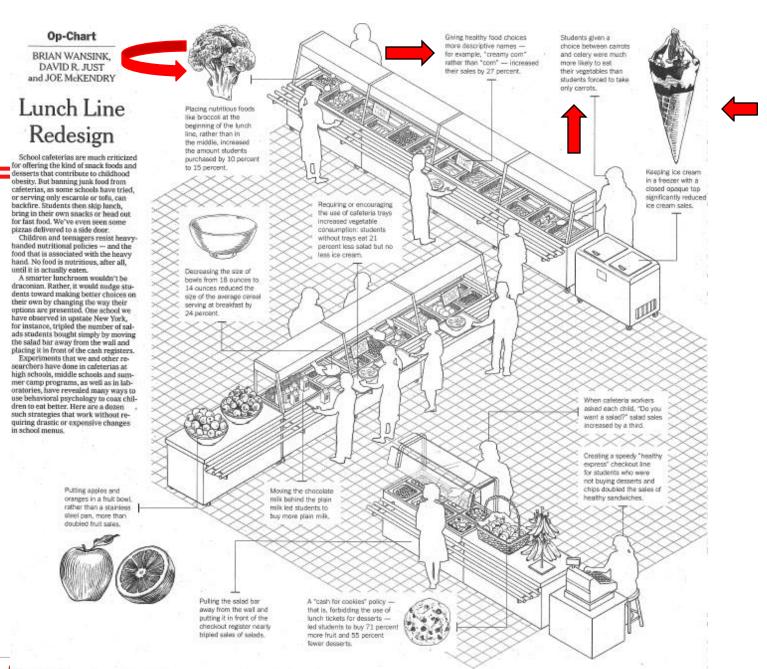




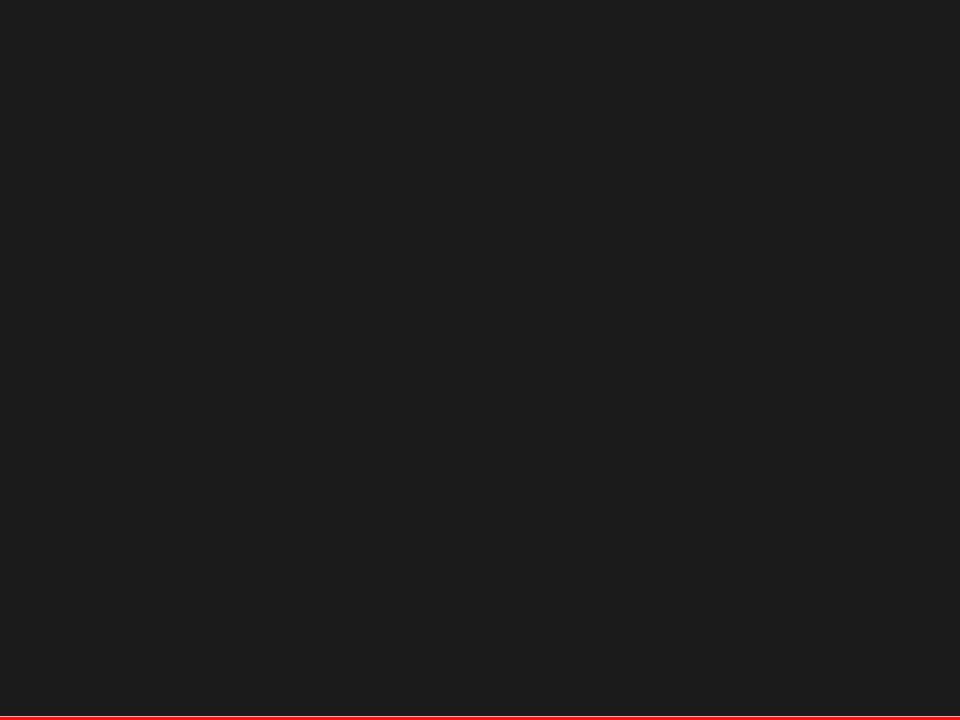


What would this look like in . . . a school lunchroom?

- What are the critical behavioral intervention points in a school lunch decisions?
- What are clean, scalable, binary, 0/1 interventions that can attach these intervention points?







Smarter Lunchroom Self-Assessment Scorecard



Smarter W Lunchrooms **Smarter Lunchrooms Self-Assessmen**

Scorecard

ince its founding in 2009 the Smarter unchrooms Movement has championed use of evidence-based, simple low and no-cost changes to lunchrooms which can simultaneously improve participation and profits while decreasing waste. This tool can help you to evaluate your lunchroom, congratulate yourself for things you are doing well and and identify areas of opportunity for improvement.

Instructions

Read each of the statements below. Visualize your cafeteria, your service areas and your school building. Indicate whether the statement is true for your school by checking the box to the left. If vou believe that your school does not reflect the statement 100% do not check the box on the left. After you have completed the checklist, tally all boxes with check marks and write this number in the designated area on the back of the form. This number represents

your school's baseline score. The boxes which are not checked are areas of opportunity for you to consider implementing in the future. We recommend completing this checklist annually to measure your improvements!



Important Words

Service areas: Any location where students can purchase or are provided with food

Dining areas: Any location where students can consume the food purchased or provided

Grab and Go Meals: Any meal with components pre-packaged together for ease and convenience - such as a brown bag lunch or "Fun Lunch" etc.

Designated Line: Any foodservice line which has been specified for particular food items or concepts - such as a pizza line, deli line, salad line etc.

Alternative entrée options: Any meal component which could also be considered an entrée for students - such as the salad bar, yogurt parfait, vegetarian/vegan or meatless options etc.

Reimbursable "Combo Meal" pairings: Any reimbursable components available independently on your foodservice lines which you have identified as a part of a promotional complete meal - For example you decided your beef taco, seasoned beans, frozen strawberries and 1% milk are part of a promotional meal called the, "Mi Amigo Meal!" etc.

Non-functional lunchroom equipment: Any items which are either broken, awaiting repair or are simply not used during meal service - such as empty or broken steam tables, coolers, registers etc.

Good Rapport: Communication is completed in a friendly and polite manner

☐ Daily fruit options are available in two or

At least one daily fruit option is available

☐ At least two types of fruit are available daily

☐ Whole fruit options are displayed in

near all registers (If there are concerns

regarding edible peel, fruit can be bagged

more locations on the service lines

Focusing on Fruit

or wrapped)

☐ Fruit is available in

all food service areas

chaffing/hotel pans)

☐ A mixed variety of whole fruits are displayed together in bowls in all service

Daily fruit options are displayed in a location in the line of sight and reach of students (Consider the average height of your students when determining line of

Daily fruit options are bundled into all grab and go meals available to students

☐ All available fruit options have been given creative or descriptive names

☐ All fruit names are highlighted on all serving lines with name-cards or product IDs daily

All fruit names are highlighted and legible on menu boards in all service and dining

☐ Fruit options are not browning, bruised or otherwise damaged

☐ All fruit options are replenished so displays appear "full" continually throughout meal service and after each lunch period

All staff members, especially those serving, have been trained to politely prompt students to select and consume the daily fruit options with their meal

Promoting Vegetables & Salad

☐ Vegetables are available in all food service areas

□ Daily vegetable options are available in two or more locations in all

At least two types of vegetable are available

Daily vegetable options are displayed in a location in the line of sight and reach of students (Consider the average height of your students when determining line of

 Daily vegetable options are bundled into all grab and go meals available to students

 A salad bar is available to all students ☐ All available vegetable options have been given creative or descriptive names

 All vegetable names are highlighted on all serving lines with name-cards or product IDs daily

All vegetable names are highlighted a	and
egible on menu boards in the service a	and
lining areas	

☐ Vegetables are not wilted, browning, or otherwise damaged

☐ All vegetable options are replenished so displays appear "full" continually throughout meal service and after each lunch period

 All staff members, especially those serving, have been trained to politely prompt students to select and consume the daily vegetable options with their meal

Moving More White Milk

☐ White milk is available in all service areas

White milk is in	two or	more	locations	in	all
service areas					

☐ All beverage coolers have white milk

☐ White milk represents 1/3 of all visible milk in the lunchroom

☐ White milk is placed in front of other beverages in all coolers

☐ White milk is eye-level and within reach of the students (Consider the average height of your students when determining eye-level)

☐ White milk crates are placed so that they are the first beverage option seen in all milk

White milk is bundled into all grab and go meals available to students as the default

☐ White milk is highlighted on all serving lines with a name-card or product ID daily

 White milk is highlighted and legible on the menu boards in all service and dining areas

White milk is replenished so all displays appear "full" continually throughout meal service and after each lunch period

Entrée of the Day

☐ A daily entrée option has been identified to promote

- a targeted entrée in each service area and for each designated line (deli-line, pizza-



Smarter Lunchroom Self-Assessment Scorecard



Smarter Lundrooms Stef-Assessment

Scorecard

ince its founding in 2009 the Smarter unchrooms Movement has championed use of evidence-based, simple low and no-cost changes to lunchrooms which can simultaneously improve participation and profits while decreasing waste. This tool can help you to evaluate your lunchroom, congratulate yourself for things you are doing well and and identify areas of opportunity for improvement.

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prompt

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Alternative entrée options: Any meal component which could also be considered an entrée for students - such as the salad bar, yogurt parfait, vegetarian/vegan or meatless options etc.

Reimbursable "Combo Meal" pairings: Any reimbursable components available independently on your foodservice lines which you have identified as a part of a promotional complete meal - For example you decided your beef taco, seasoned beans, frozen strawberries and 1% milk are part of a promotional meal called the, "Mi Amigo Meal!" etc.

Non-functional lunchroom equipment: Any items which are either broken, awaiting repair or are simply not used during meal service - such as empty or broken steam tables, coolers, registers etc.

Good Rapport: Communication is completed in a friendly and polite manner

Daily fruit options are available in two or

At least one daily fruit option is available

☐ At least two types of fruit are available daily

☐ Whole fruit options are displayed in

near all registers (If there are concerns

regarding edible peel, fruit can be bagged

more locations on the service lines

Focusing on Fruit

or wrapped)

☐ Fruit is available in

all food service areas

chaffing/hotel pans)

☐ A mixed variety of whole fruits are displayed together in bowls in all service

Sliced or cut fruit is available daily

Daily fruit options are displayed in a location in the line of sight and reach of students (Consider the average height of your students when determining sight)

☐ Daily fruit options are b

and go meals available All available fruit optic

creative or descriptive ☐ All fruit names are serving lines with nam

→ All fruit names are high on menu boards in all

IDs daily

 Fruit options are not be otherwise damaged

☐ All fruit options are rep appear "full" continual service and after each lu

All staff members, espe have been trained students to select and fruit options with their

Promoting Vegetables 8

☐ Vegetables are available food service areas

☐ Daily vegetable optice available in two or m service areas

☐ At least two types of very daily

Daily vegetable option a location in the line o students (Consider th your students when sight)

 Daily vegetable options grab and go meals avail A salad bar is available

given creative or descriptive names

IDs daily

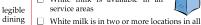
All vegetable names are highlighted and legible on menu boards in the service and

☐ Vegetables are not wilted, browning, or otherwise damaged

☐ All vegetable options are replenished so displays appear "full" continually

vegetable options with their meal on all

Moving More White Milk ☐ White milk is available in all



☐ All beverage coolers have white milk available

☐ White milk represents 1/3 of all visible milk in the lunchroom

☐ White milk is placed in front of other beverages in all coolers

☐ White milk is eye-level and within reach of ne daily the students (Consider the average height of your students when determining eye-level)

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- ☐ All available vegetable options have been
- All vegetable names are highlighted on all serving lines with name-cards or product

A daily entrée option has been identified to promote - a targeted entrée in each service area and for each designated line (deli-line, pizza-

Cornell University Charles H. Dyson School of Applied Economics and Management

students to select and consume the daily vegetable options with their meal **Moving More White Milk** ☐ White milk is available in all service areas White milk is in two or more locations in all service areas All beverage coolers have white milk available White milk represents 1/3 of all visible milk in the lunchroom White milk is placed in front of other beverages in all coolers White milk is eye-level and within reach of the students (Consider the average height of your students when determining eye-level) White milk crates are placed so that they are the first beverage option seen in all milk coolers White milk is bundled into all grab and go meals available to students as the default beverage White milk is highlighted on all serving lines with a name-card or product ID daily White milk is highlighted and legible on the menu boards in all service and dining areas White milk is replenished so all displays appear "full" continually throughout meal service and after each lunch period Cornell University Applied Economics and Management A daily entrée option has www.foodandbrandlab.cornell.edu

nave been trained to politely prompt

"70-70 by 2020" 70% of all schools score a 70+ by 2020

- E-ToolBox
 - Cont. Ed Credits
 - Instructional videos
 - Case studies
 - Simulations
 - Electronic Scorecard
- Partnerships
 - USDA + FNS
 - State SNAs
 - Major media outreach
 - Trade assns & companies

- Train-the-Trainer
 - Make Ext Pros the Go-to Experts
 - Arm with Toolbox
 - 1. Direct makeovers
 - 2. Seminars to FS Directors
- Slim by Design Norming Campaign
 - "Grade your lunchroom"
 - Health & Wellness Metric
 - LunchScore App (8-14)
 - Benchmarking & Panel

Thank You

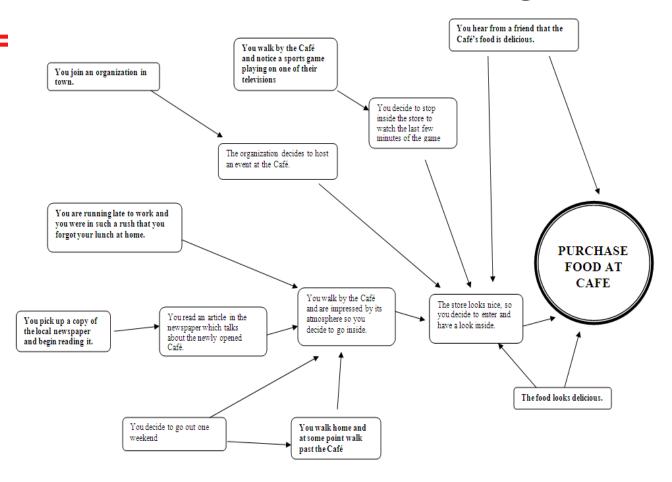


Objective of Behavioral Event Modeling

1.Incident

- 2. Insight
- 3. Indicators

4. Interventions



Critical Incident	Possible events	Indicators	Insights	Interventions/Applications fo Marketing Mix (4 P's)
Purchase Food at Café				
	Happens to have cash in pocket	Store looks nice, decide to enter and look around	A great deal of Café's success relies on impulse decisions	
	Hear from friend that food is delicious		Novelty is one of the café's greatest assets (for now)	Café needs to maintain its novelty and differentiate itself from other local eateries
			Business model of Café is geared primarily towards customers coming in to purchase food and then promptly leavingas a stop-and-go more so than a target destination	Product: Being open 24 hours would add to it convenience
	Reads article in daily local newspaper about newly opened café			Promotion: generating publicity about the cat through local publications is an excellent way the café to reach its target market
				Promotion: sponsorship of charity events in conjunction with local organizations would encourage more people to enter and increas café exposure
	Walks by café and notice a sports game playing on their big screen television	Decides to enter to watch the last few minutes of a football game	Café needs to be able to attract people who are walking by to step inside	Place: Since the café is located in a prime location in the town, it should take advantage its visibility
				Make sure the Café appears as inviting as possiblehave TVs visible from the street (to I sports fans)
				Promotion: Drink specials on game nights wo also encourage sports lovers to enter the car
				Product: Food should be readily visible; displa in buffet style to entice visitors
				Product: The café's location is known for its nightlife; adding a bar area, karaoke, or live I may contribute to the café's allure
	Decide to go out one weekend	Food looks delicious/appetizing, decides to enter	Once inside, atmosphere should be conducive to customers spending money	Price: Charging for food from the buffet by the pound makes customers less cognizant of prifosters greater impulse buying decisions
			Café's appeal is also a result of its conveniencerestaurant needs to make itself as convenient as possible for its target market	
	Running late to work and in a rush, forgets lunch at home			Product: providing pre-packaged and pre- prepared foods with easy access for those in rush
Cornell University Charles H. Dyson School of	Joins a local organization	Organization hosts a charity event at café		
Applied Economics and Mar			l .	

Summary

- 1. Defining the Intervention
 - What behavioral events will link with intervention?
 - What binary intervention might work?
- 2. Characterizing the Intervention's Effects
 - What discrete, countable behaviors will be DVs?
- 3. Assessing Feasibility & Refining Intervention
 - Lab study & focus groups
 - Field study proof of concept & debriefing
 - Expanded study for Best Practices
 Launch

