"Back to the Future" Fueling the Drive for Mushrooms in Foodservice May 12, 2022

Pam Smith RDN

www.pamsmith.com



2021

2022

The New York Times



"Mushrooms are starting to look like one of the best answers to the question: What is the future of food?"

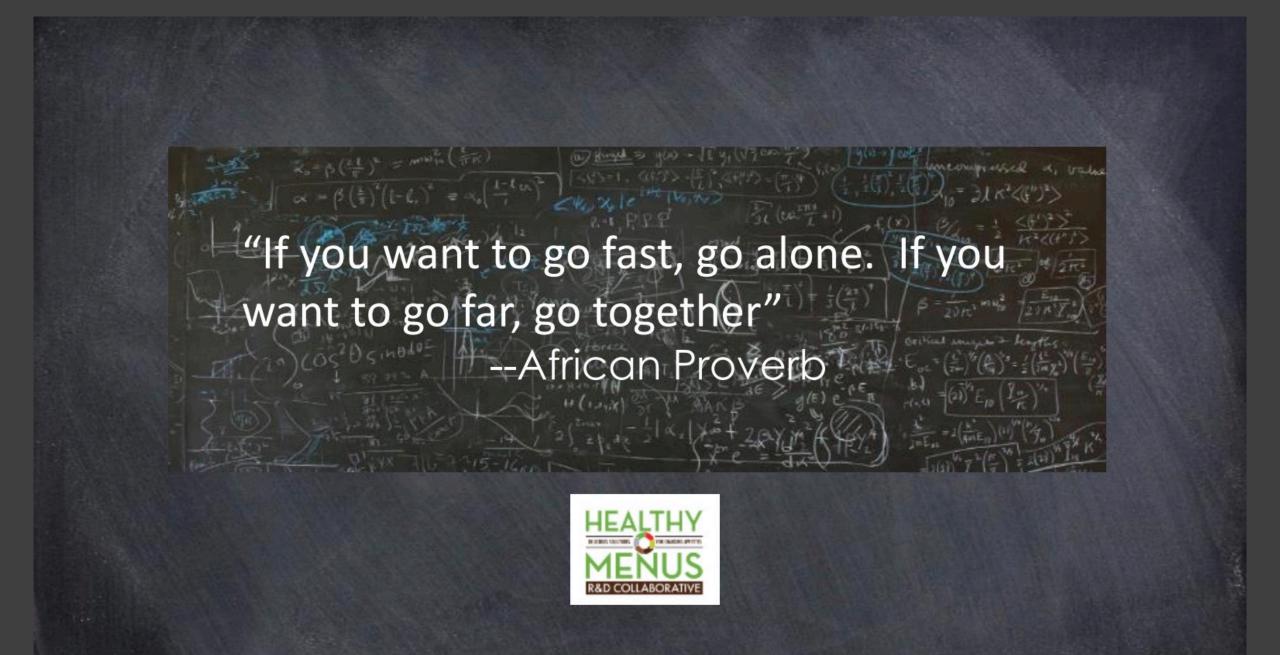


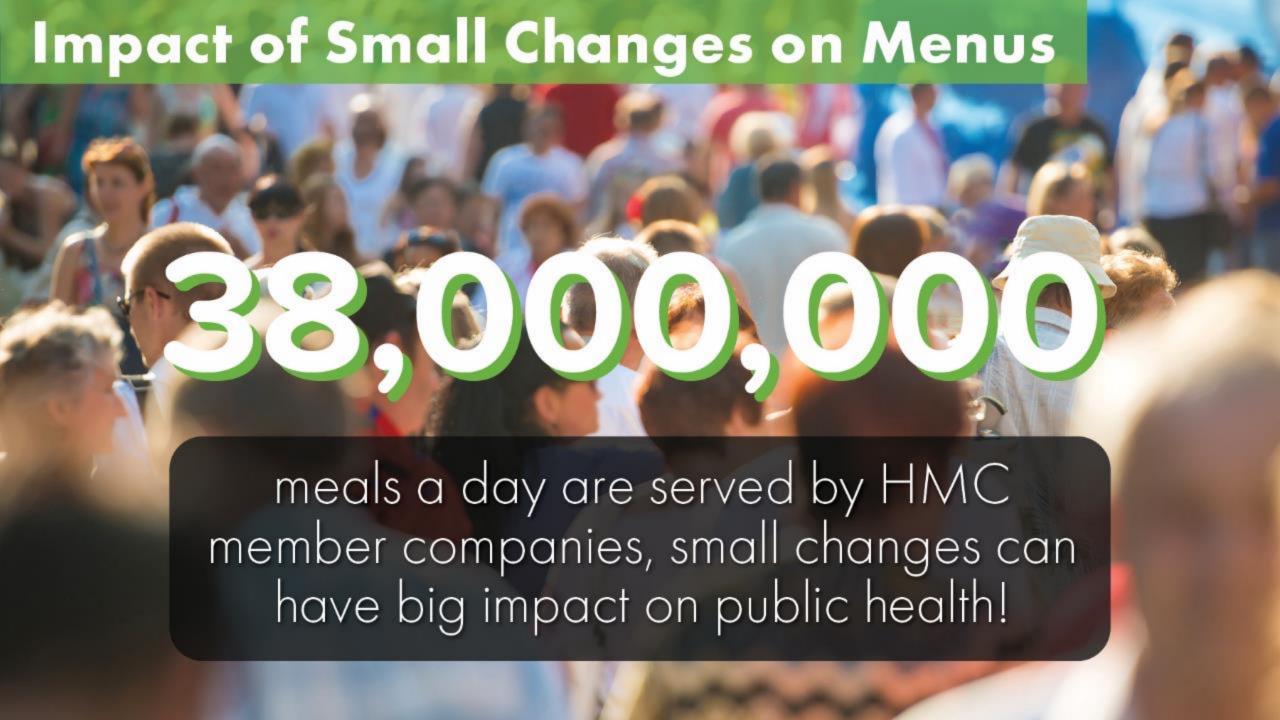
Ingredient of the Year













Healthy Menus R&D Collaborative Timeline

December 2010 First priorities set.



Could mushrooms be the answer?



what a

June 2012 HMC Charter ratified. HEALTHY
ACCIDING OF THE ROOT OF THE PURS
AD COLLABORATIVE

TASTING SUCCESS with CUTTING SALT

A Culinary Institute of America Healthy Menus R&D Callaborative Success Stary

Summary

The Cylinary institute of America (ICA) formed the Healthy Meaus RBD Collaborative (HRIC) is January alos to help the solution foodservice industry interacts the violability of healthy mentgratum. Faculting members elected is obtain industrial either interprinting and for collaboration. There were potential fisteral mandates for robus solution in the food system, and members ware sugget to solution count results of latebase to the callering that wouldn't have a negative impact on train, fixed, or consume acceptance. Members have been collective success in recturing solution through several controlled and trains. Between consisted only, HMC operator comparison appoind indusing solution libraries across all fixeds and because or interpretable by 1916.

2013

Strategic Calorie Design

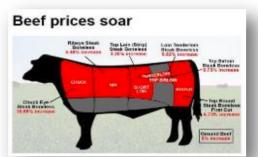
2014

January 2010 HMC formed.

2010

2011

June 2011
Restaurants struggling
with meat & poultry
price increases.



2012

April 2012 "The Blend" Sensory Study



Restaurant Menu Labeling Challenges...

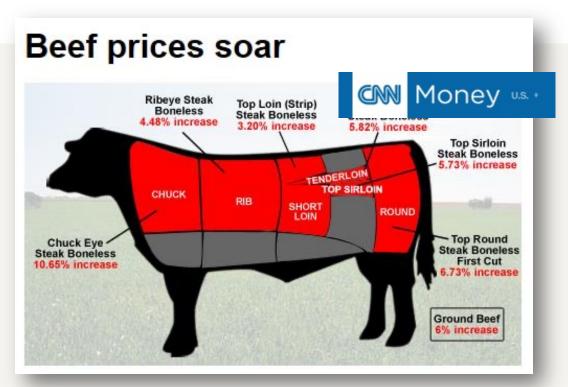


April 2010 IOM Report published.



STRATEGIC PROCESS IN ACTION...

- June 2011: Industry struggling with increasing food/commodity costs.
 What will the industry do if beef and poultry prices continue to increase?
- December 2011: Small group develops
 "The Blend" concept to address
 nutrition + sustainability + food cost
 issues.







"A 50-50 mixture of two nucleotide compounds can produce eight times as much flavor as either one of the compounds alone!"

THE BLEND IS THE ULTIMATE FLAVOR LIFTER



Beef Chicken Mushrooms Soy Tomatoes

Yeast

Glutamate



Inosinate

Beef Sardines Mackerel Tuna



<u>Guanylate</u>

Mushrooms

Using Mushrooms to Improve the Nutrition Properties and Consumer Appeal of Popular Meat-based Dishes

Principal Investigators

Jean-Xavier Guinard, PhD, University of California, Davis Amy Myrdal Miller, MS, RDN, FAND

Research Funders

Mushroom Council and Australian Mushroom Growers Association





A Signature Burger!

- The Blend is achieved by simply blending 25% ground white mushrooms into 75% ground meat
- The Blending Strategy brings a Flavor and Quality Lift, with potential cost savings and flexibility
- The Burger is craveable and forgiveable – holds juiciness and flavor for longer than 100% protein



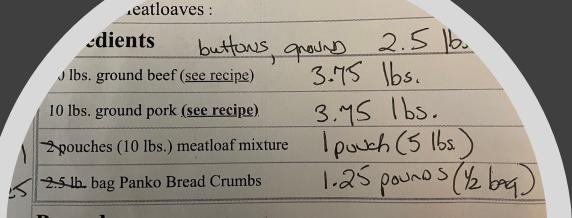
Blending as a Strategy





Meatloaf (With a Difference!)

- Current Recipe ... simply replaced 25% beef and pork with raw ground white mushrooms
- Volume increase (due to mushrooms holding moisture) was significant
- Flavor and cravability was increased, as was perception of saltiness; could potentially bring sodium down in meatloaf mixture through reformulation
- Meatloaf was more forgivable stayed meaty and juicy for longer



us:



The Blend Is More Than A Trend

It's A Movement To Create Better Menus Popular With Top Chefs









How to Build a Healthy Burger

7 easy ways to grill up good health

MUSHROOMS



Though barbecue season may be winding down, you still have plenty of time to throw some burgers on the grill. And never fear-even if you're trying to eat Put the Dama Phone Aven healthfully, there's no need to forgo your tasty hamburger for a garden salad. With just a few smart tweaks, you can easily build yourself a healthy burger So start the grill and follow these tips



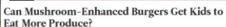


Mushrooms Are Having a Moment













Forbes

he "blended burger" could

















Blending Meat & Mushrooms

The First Breakthrough To Scale



Can Mushroom-Enhanced Burgers Get Kids to Eat More Produce?

FOOD&WINE

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a Time the Best Place Place in America?

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"The Blend," a Meat Mushroom Amalgam, Hits Restaurants and School Cafeterias

The hybrid is healthier than all-heef dishes and a more sustainable option, too

250M Calories 15M Sat Fat Grams



38M Fat Grams



Sodexo Switches to Blended Burgers

Leading foodservice provider Sodexo is taking tremendous strides in the national movement to increase fruits and veggies in school lunches by transitioning from all-beef burgers to blended burgers in all 250 school districts it. serves. The switch to blended burgers could mean 250 million calories, 38 million grams of fat, 15 million grams of saturated



Scdego Styliches To Beef Washnoor Blend Burgary in K-12

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Salara de gratisfalogueira a tritare a facilitati

Large columns

[...]



Hey! A tomato, another plant!

Wow! That burger is 25-30% mushroom!



Made from plants

Look! More plants!

The Original SONIC® Slinger, a Blended Mushroom Burger



A Major Tipping Point





Starting at just 340 CALORIES

\$199 Classic

\$249 Bacon Melt

capprox. 340 calones. Tex is not included. Add-Oes cost extra. See menu for details. Limited. 8.8.02815 Amarika's Drive in Scand Properties LLC.

The Menu Innovator
Top 50 Food Influencers
Best LTO of the Year, MenuMasters

SWILL

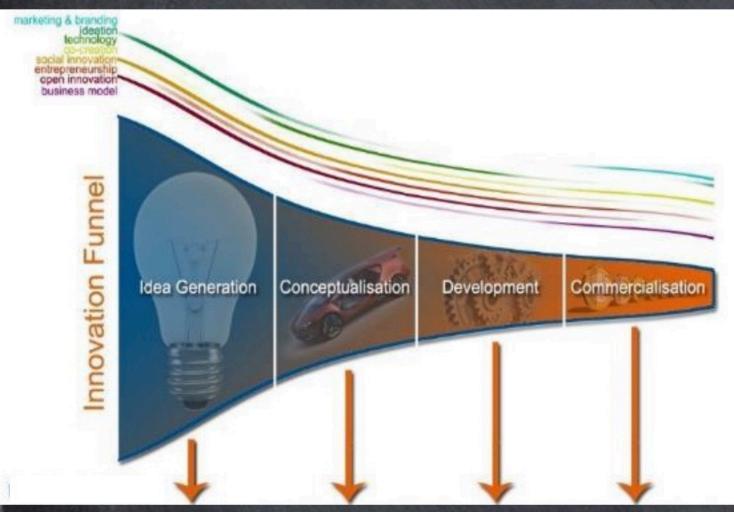
Here's How Sonic's New 'Slingers' Are Revolutionizing Burgers







Evolution of a Concept





Unmet Emerging Need Presence

Inspire Networked/ Activate Scale



65%

Of consumers eat blended items

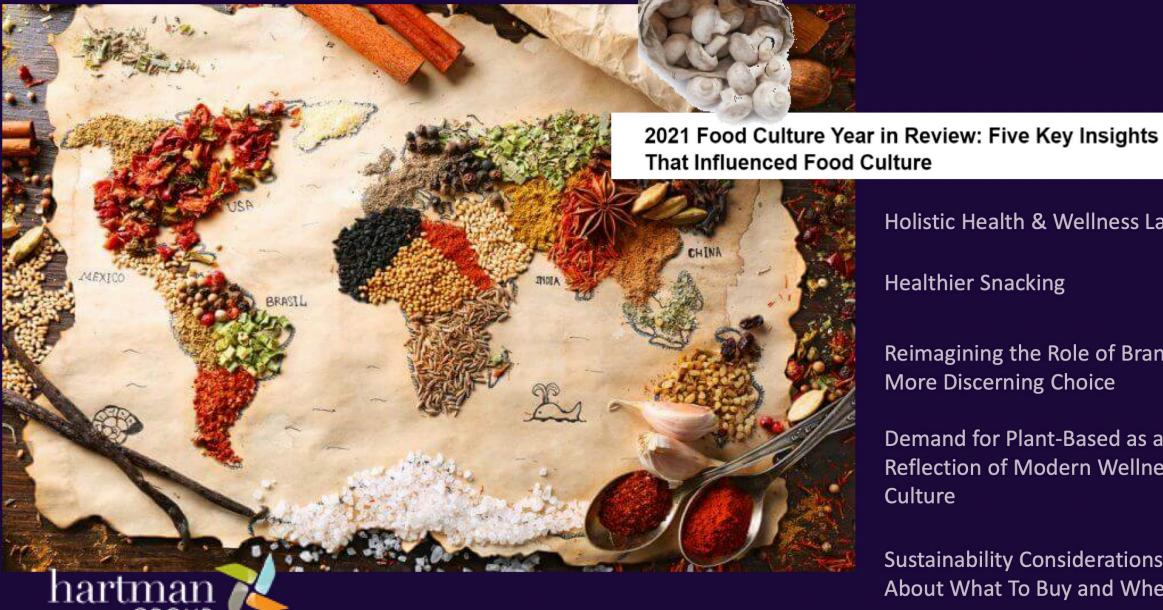
The Power of Meat 2022 found that 65% of American consumers eat meat blended with vegetables and/or mushrooms occasionally or frequently.

This includes people creating their own blends as well as an ever-growing variety of blended solutions at retail, in the frozen food aisle, meat case and in produce — with ready-to-blend diced mushroom solutions.

Sensory evaluations show that



First We Have To Figure It Out—Does The Consumer Care



Holistic Health & Wellness Landscape

Healthier Snacking

Reimagining the Role of Brands: More Discerning Choice

Demand for Plant-Based as a Reflection of Modern Wellness Culture

Sustainability Considerations About What To Buy and Where



Look At The Facts

Mushrooms Can Be Considered One of The Most Sustainably-Produced Foods In The U.S.



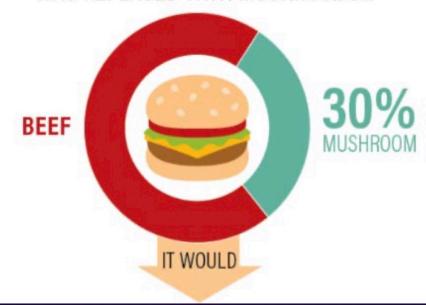






BILLION

IF 30% OF THE BEEF IN EVERY BURGER WAS REPLACED WITH MUSHROOMS...





Save as many emissions as taking 2.3 MILLION CARS off the road



Conserve as much water as 2.6 MILLION AMERICANS use at home each year



Reduce agricultural land demand by an AREA LARGER THAN MARYLAND



Why Is Everyone So Obsessed With Mushrooms Right Now?













Why mushroom mycelium could be your next house, handbag, or 'hamburger'

- WATER USAGE
- CARBON
- UPCYLING
- NO SOIL DEPLETION/USE OF UNUSED SPACES
- LITTLE AGRICULTURAL WASTE
- LAND RESOURCE SAVINGS
- VERTICAL FARMING INNOVATORS
- NO SEASONALITY/CLIMATE ISSUES
- POSITIVE COMPOST CYCLE
- IMPERFECT PRODUCE
- MINIMIZED FOOD WASTE AT FARM LEVEL (PLNT/BLEND)

Strategies To Take Advantage

Create & Promote Familiar Items That Consumers Accept and Can Help You Make A Difference



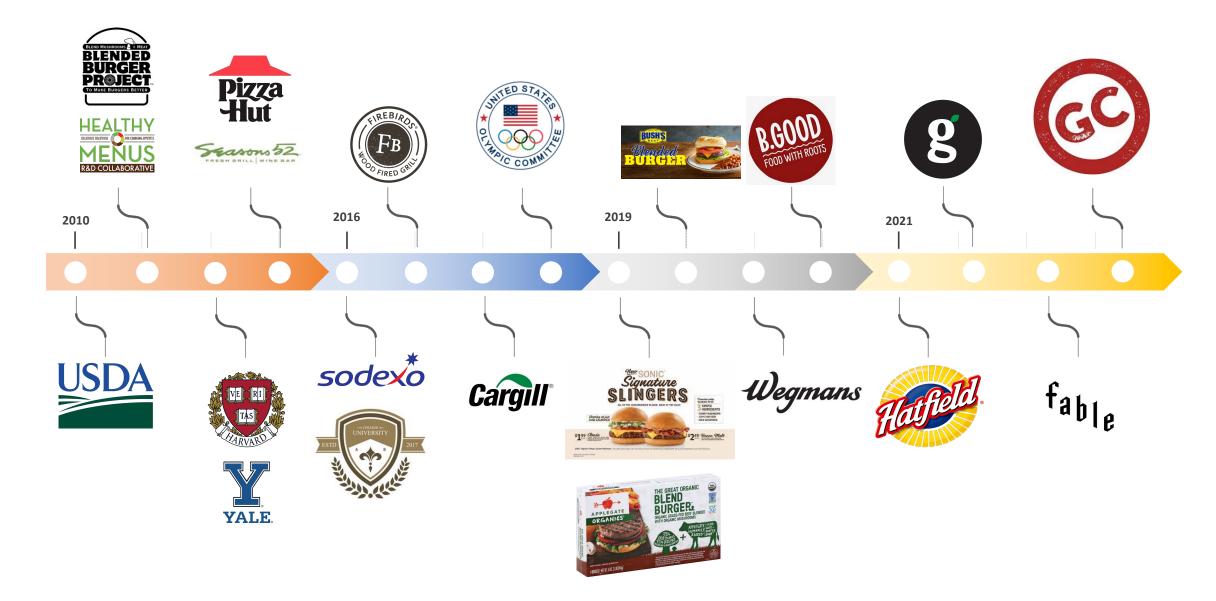
Maximize Your Benefits: By Considering Menu Items That Are At The Intersection of Flavor-Nutrition-Sustainability

HELPING FOODSERVICE TO UNDERSTAND SUPPLY CHALLENGES AND SOLUTIONS:

- Strong and Growing Demand Back to the Future!
- Mushrooms are Uniquely Grown; Labor Intensive:
 - Farms replanted 4 times/year
 - Every mushroom handpicked 364 days/year
 - Growing Substrate requires 30 different materials
- Growing Materials, Packaging, Transportation Availability and Cost Challenges
- Expect and Embrace Shorter contracts
- Widen the Spec for type/sizing
- Lean into sliced & even "ugly" (more mature) when possible



The Mushroom Council Foodservice Timeline



AN EXCITING PATH FORWARD!

MUSHROOMS ARE THE ANSWER!





Thank You!





