

A F.R.E.S.H Look At Food Recall

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Identify and highlight inefficiencies within ecosystem

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Research cost of food recalls

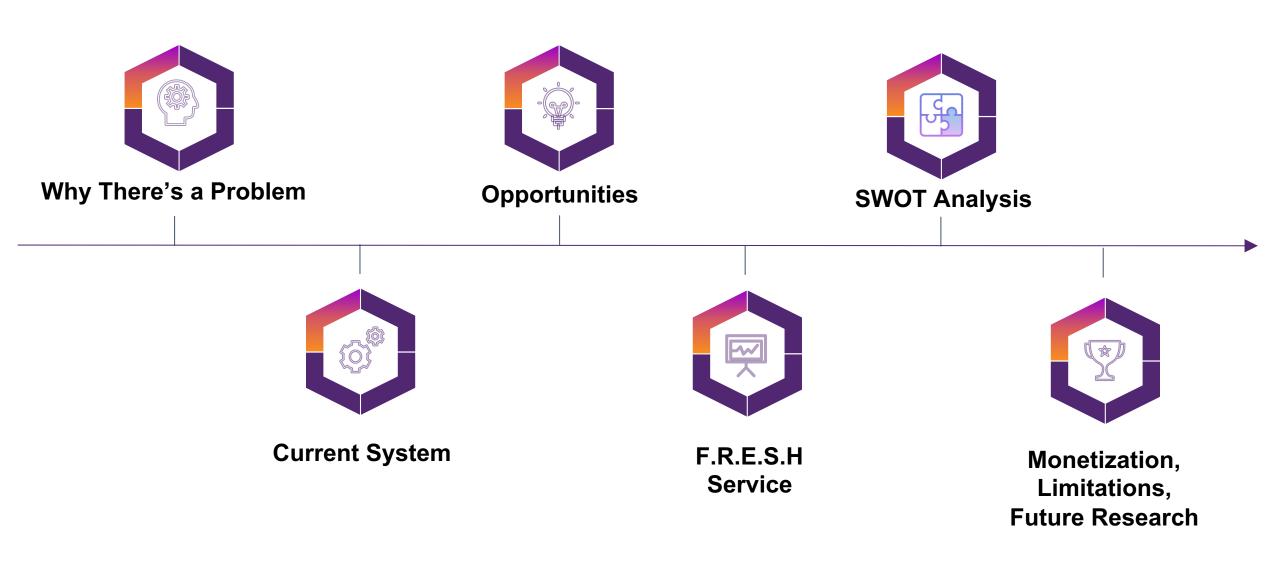
- Stakeholders
- Customers

Purpose of Research Company Challenge :

Food Recalls

Develop an information service to better serve food marketers and consumers.







Definition

Recalls are actions taken by a firm to remove a product from the market. Recalls may be conducted on a firm's own initiative, by FDA request, or by FDA order under statutory authority. *(Source: FDA)*



There Are Three Categories of Food Recalls





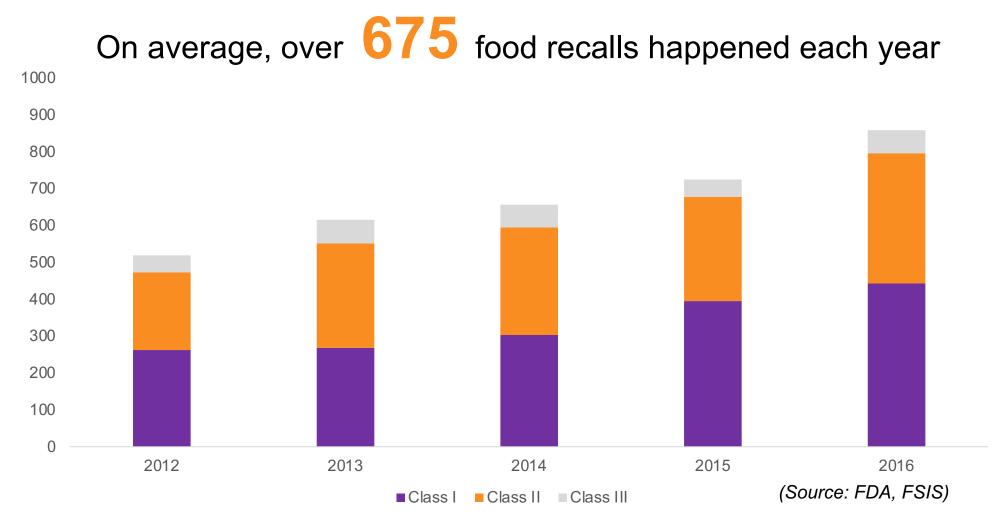


Cause serious health consequences Remote probability of adverse health consequences Won't cause adverse health consequences

(Source: FDA)



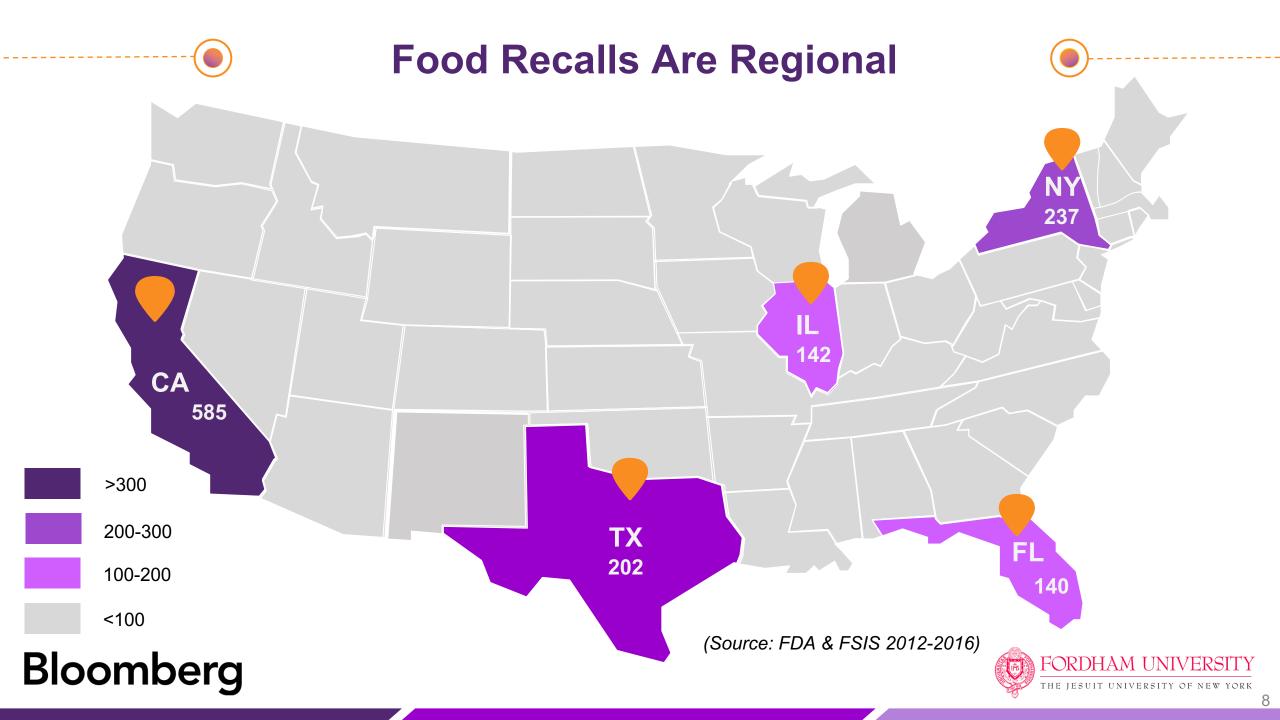






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Each year roughly 48 million people gets sick from a foodborne illness,

128,000 are hospitalized, and 3,000 die. (Source: CDC)

The average cost of a recall for food companies to be **\$10 million**.

(Source: Grocery Manufacturers Association)



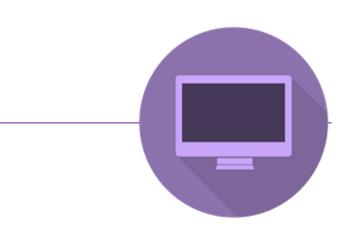




Food.Recall.Electronic.System.Hierarchy



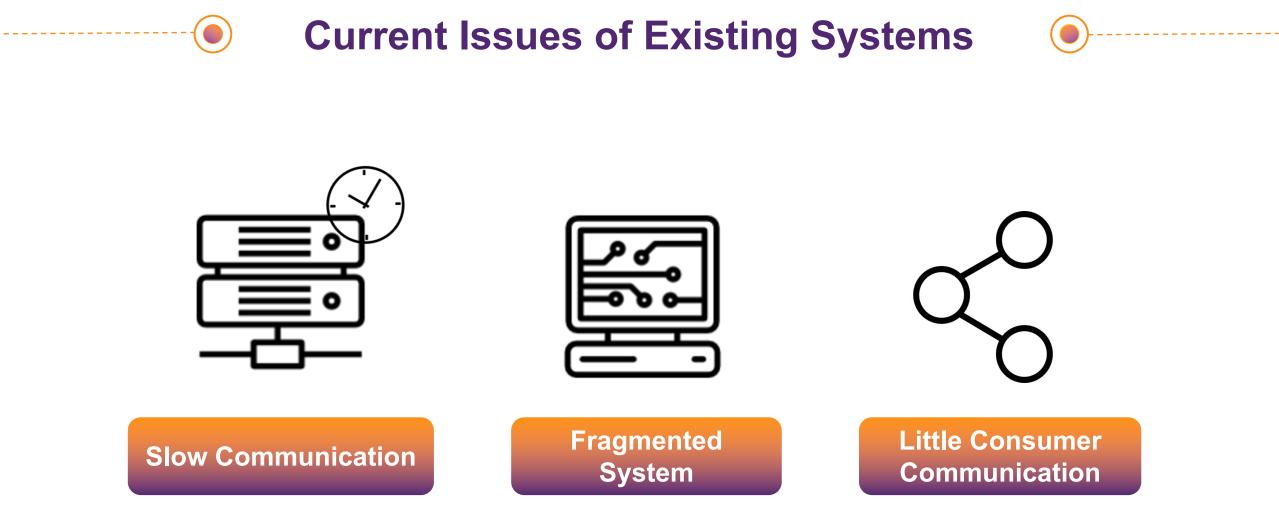




Existing Systems













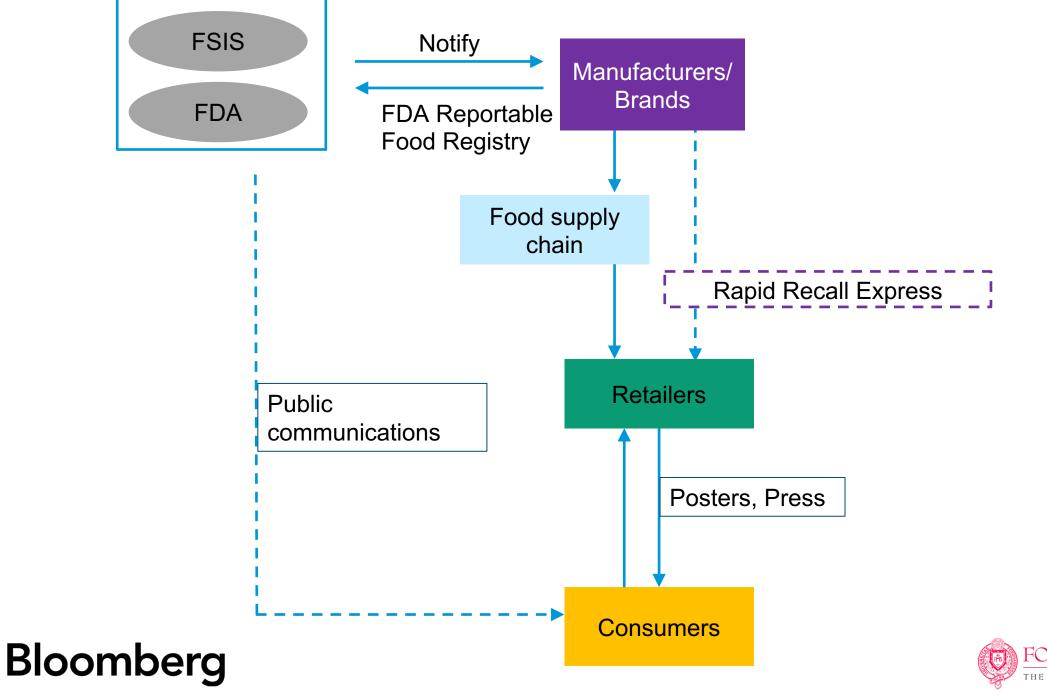
Only 8 of 21 Chains Directly Notify Consumers!



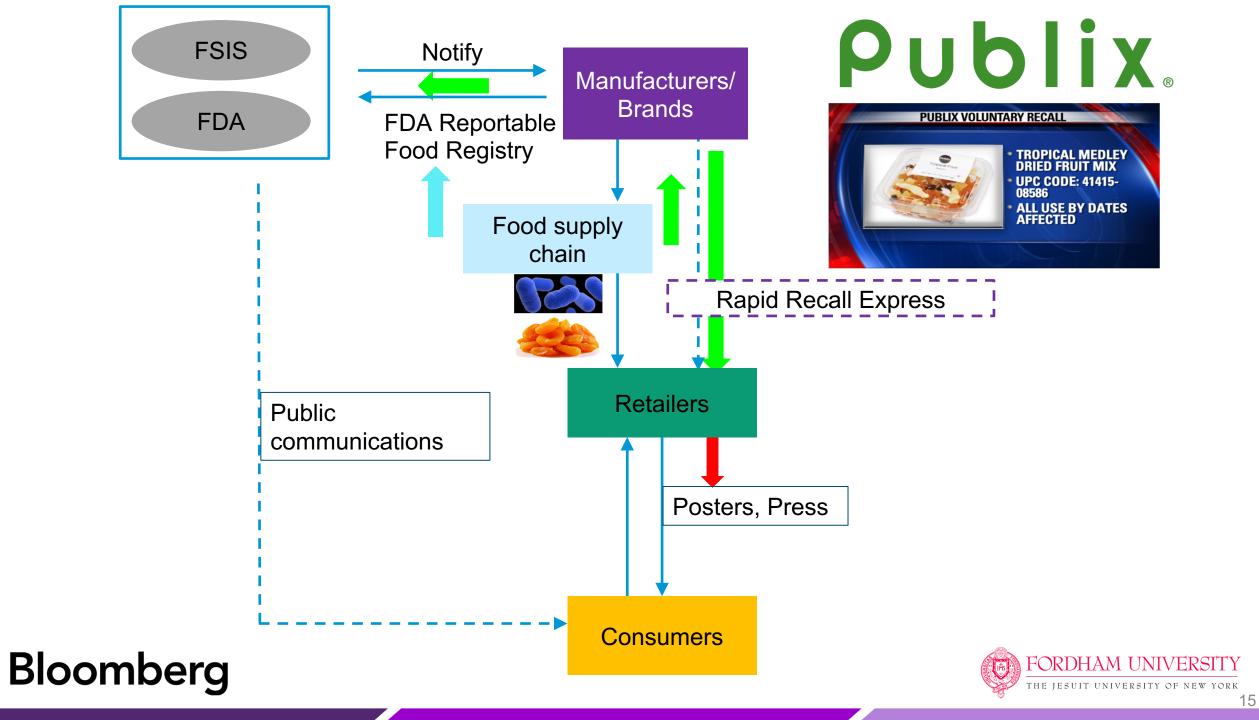
Table. Recall Notification Practices by the 21 Leading Supermarkets and Dollar Stores					
SN Rank*	Chain	Posted on Website	Direct to Consumer	Posted in Store	
1	Walmart	Y	Y	Y	
2	Kroger	Y	Y	Y	
3	Costco	Y	Y	Y	
5	Safeway	Y	†	Y	
6	Publix	Y	X	Y	
7	Giant Food Stores	Y	Y	Y	
9	Albertsons	Y	NR	NR	
10	H-E-B	Y	X	Y	
13	Food Lion	Y	NR	Y	
14	Cub Foods	Y	NR	Y	
15	Meijer	Y	Y	Y	
18	Dollar General	Y	NR	NR	
19	Whole Foods	Y	NR	NR	
21	Trader Joe's	Y	Х	Y	
22	Winn-Dixie	N	NR	Y	
25	Aldi USA	Y	Х	NR	
26	Giant Eagle	Y	Y	N	
27	BJ's	Y	Y	Y	
28	Hy-Vee	Y	NR	Y	
31	Family Dollar Stores	Y	Х	NR	
32	Wegmans	Y	Y	Y	

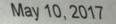
(Source: EY report "Capturing Recall Cost 2011")











We have been alerted by our supplier of Mikawaya Chocolate Chocolate Mochi Ice Cream (UPC 070934990609) that product with the code "LOT 090-17" may contain peanuts, which are not listed in the ingredients.

No allergic reactions or illnesses have been reported to date.

All of the affected Mikawaya Chocolate Chocolate Mochi Ice Cream has been removed from sale and destroyed.

If you purchased Chocolate Chocolate Mochi Ice Cream with the affected code and have a peanut allergy, please do not eat it. We urge you to discard the product or return it to any Trader Joe's for a full refund. If you have any questions, you may call Trader Joe's Customer Relations at (626) 599-3817 [Monday through Friday, 6:00 am to 6:00 pm Pacific Time]. We sincerely apologize for the inconvenience.





ALCOSE:

OCHI

ICE CREAM

"The Original and the Best"

ice Crown Wrapped in a Sweet Rice Drugh

KD

MT HAN MAN TA

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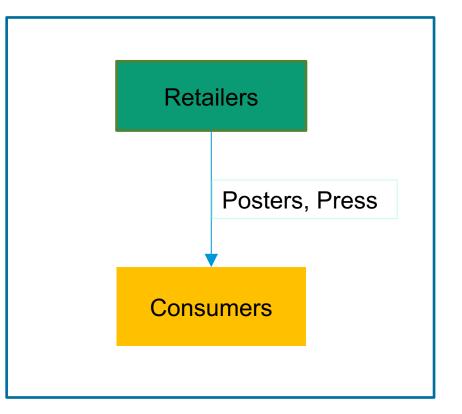
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Opportunities Exist to Fix the System

- Breakdown between retailers and consumers
- All the data, no action
- Challenge: putting it all together







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Loyalty Programs Provide an Answer







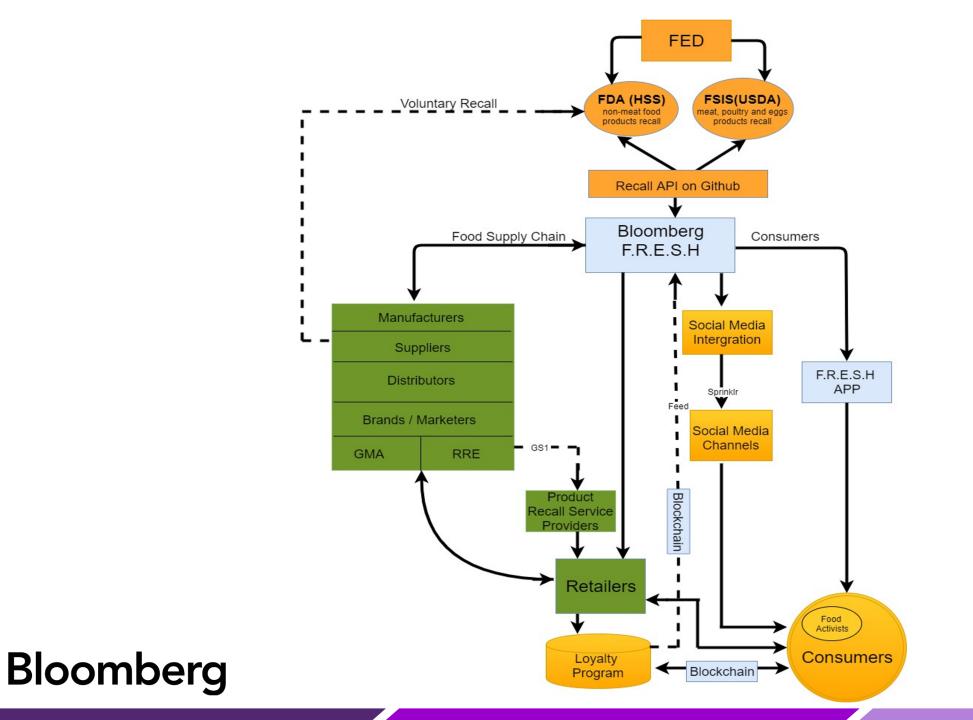
F.R.E.S.H

Food.Recall.Electronic.System.Hierarchy

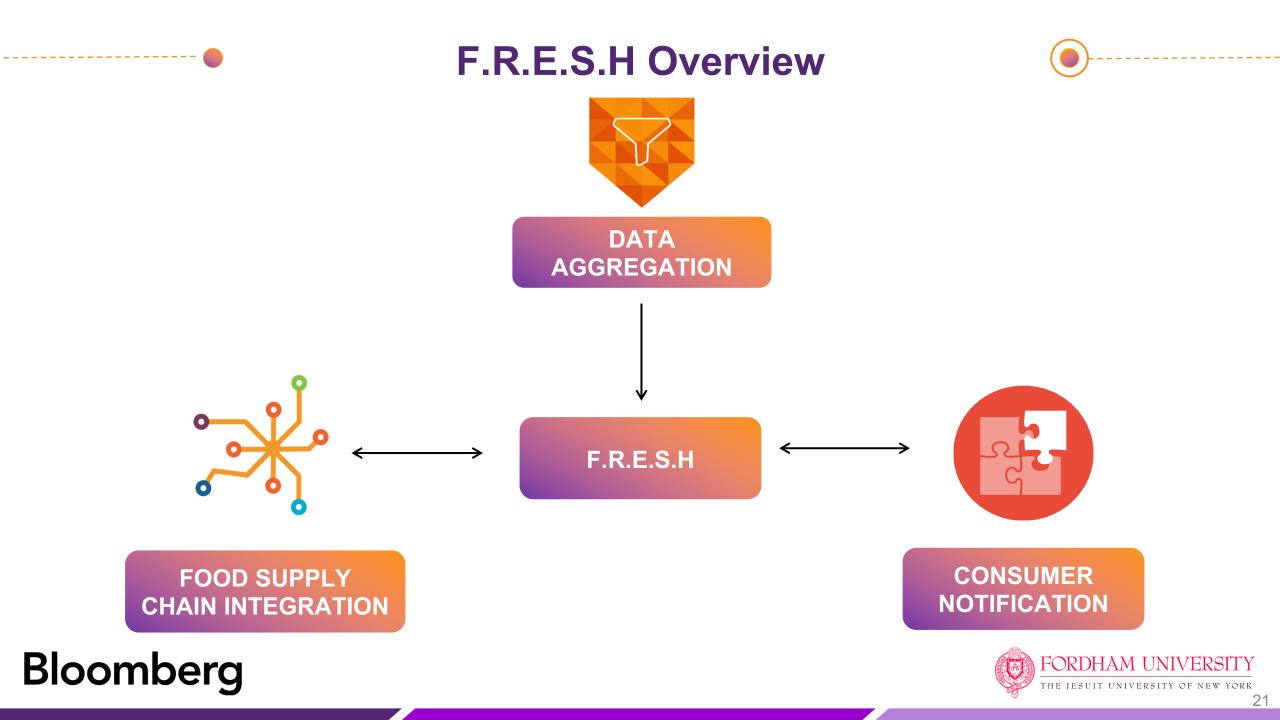




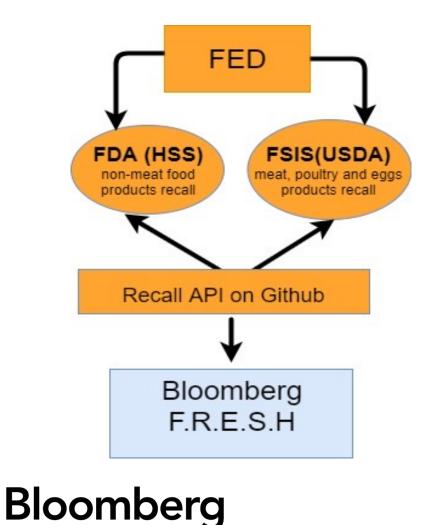
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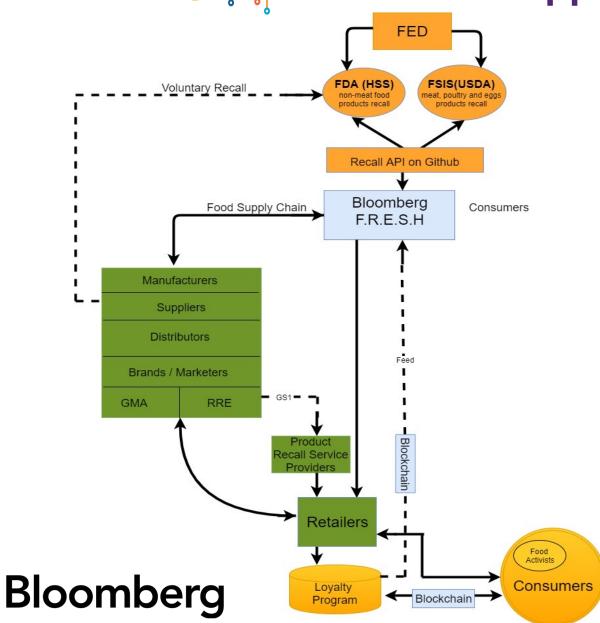




- Combine FDA and FSIS
- Intregrate Food Recall Alerts
- Recall API on Github



Then Food Supply Chain Integration

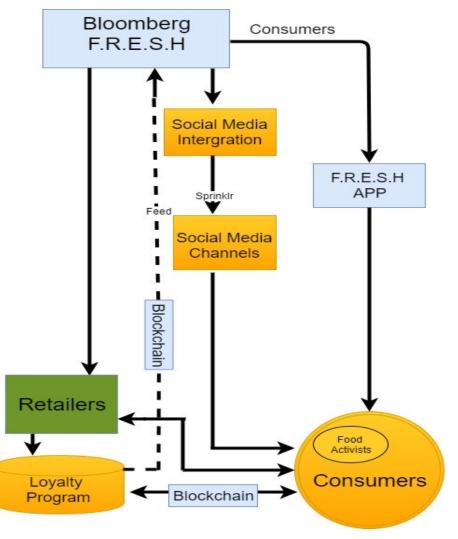


- Voluntary Recall
- Parallel communication
- Loyalty Program Database
- Match consumers with recalled products purchased
- Real time supply chain and consumer notifications



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You Then Leverage Multiple Communication Channels



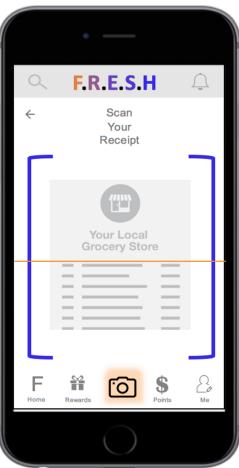
• F.R.E.S.H Strength

- Probabilistic approach
- Social media effectiveness
- Mobile App

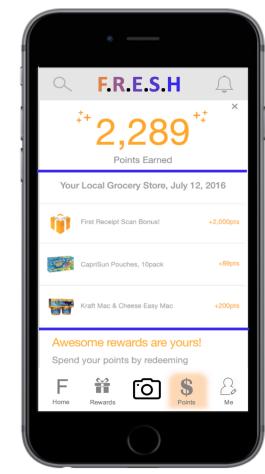


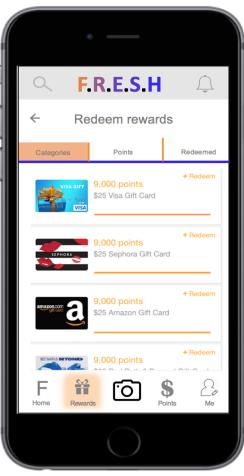


A Mobile App Provides Functionality



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20M userbase \$2B worth shopping data



Food Recall Notification:

here's how it works

TARGET				
Product Name	Quantity	Price		
HIGH FARM tomatoes	2 lbs	\$10.00		
Pepsi (4 ltr)	2	\$7.00		
Chip Ahoy (16 oz)	2	\$6.29		
Total		\$23.29		





Food Recall Alert **HIGH FARM** Tomatoes





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F.R.E.S.H

\$5.69

\$3.22

\$31.82

\$9.40

\$0.95

\$23.89

Points

Recent Shoppine Trips

CVS

CVS

6 hours ago

6 hours ago

Tom Thumb

days acc Walgreens

Target

F

Sprouts Farmers Market



Alert: NY,NJ

Category trends



Forecasting



Latest



Notifications

Food News



Blockchain Login

username	
password	

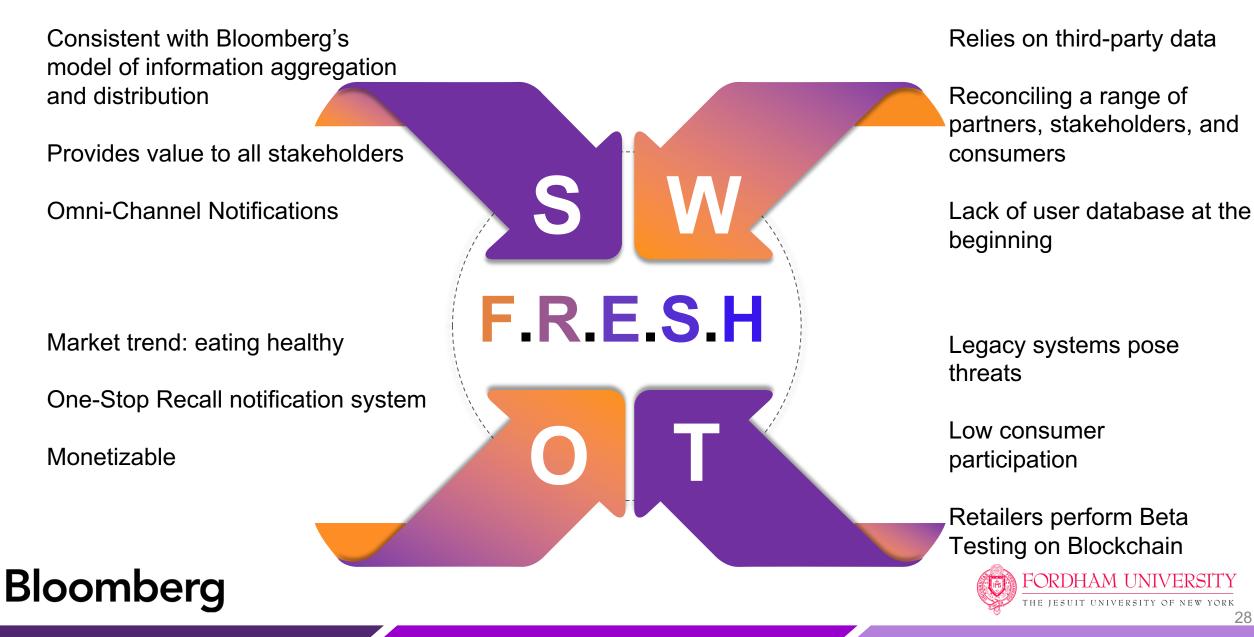
forgot your password? click here



11:00 ET JUL 24



F.R.E.S.H Has Some Big Strengths





Why Opportunities Outweigh Threats

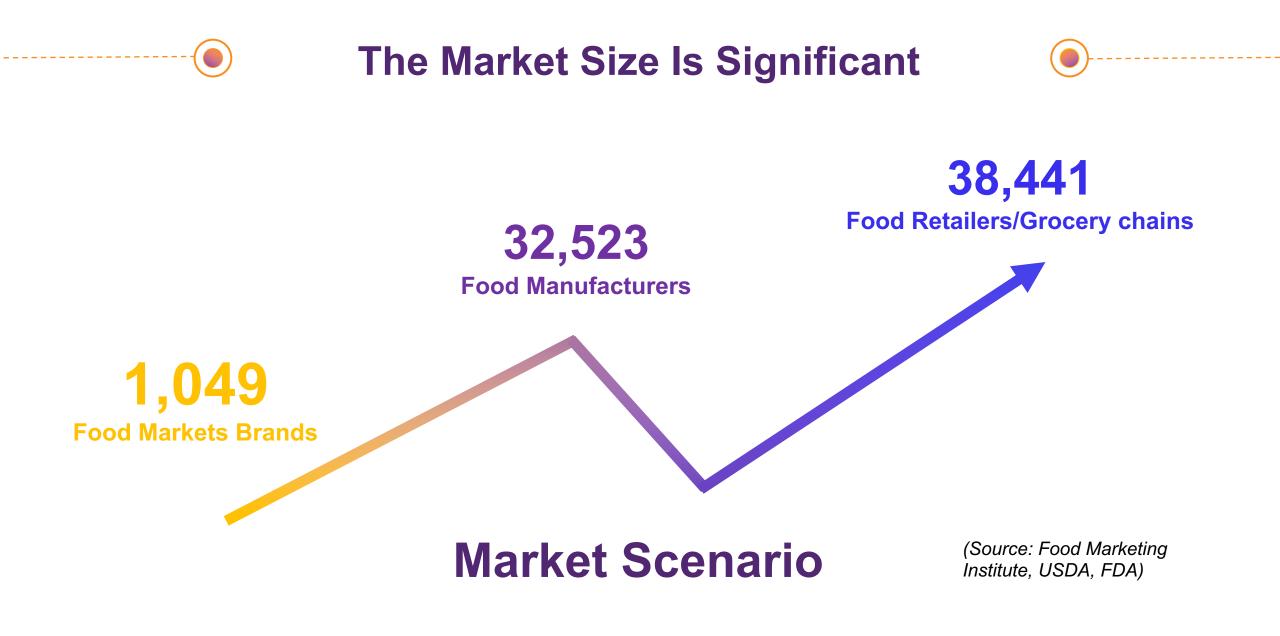


Consumer Attitude	Percent Value
Share of Americans who are seriously concerned about Food Recalls	28%
Share of Americans who have considered Food Recalls more in the past few years	43%
Share of women who are seriously concerned about food recalls	31%
Share of Baby Boomers who are concerned about Food Recalls	87%

(Source: Statista, 2016)









No.1 Cost

Business interruption

(Source: EY report "Capturing Recall Cost 2011")

\$1 Billion

(Source: EY report "Capturing Recall Cost 2011")

77% of GMA respondents estimated the financial impact to be up to **\$30 million**

(Source: EY report "Capturing Recall Cost 2011")

\$10 Million

(Source: GMA)



Monetization Looks Possible

Purple Plan (Business):

Provide the efficient supply chain notification system and customer loyalty management solutions.

Size (Revenue)	Annual Price
Under \$500M	\$20,000
\$500M-\$5B	\$50,000
Above \$5B	\$100,000

Orange Plan (Consumer):

Build up a industry involved food recall multi-functional alerting app, including scanning and reporting for food problem.

FREE of charge.

Monetizing from retailers rewarding program and ads.





Security concerns between different parties (relationship with supply chain)

Consumer notification system has not been tried yet

Development cost is unknown







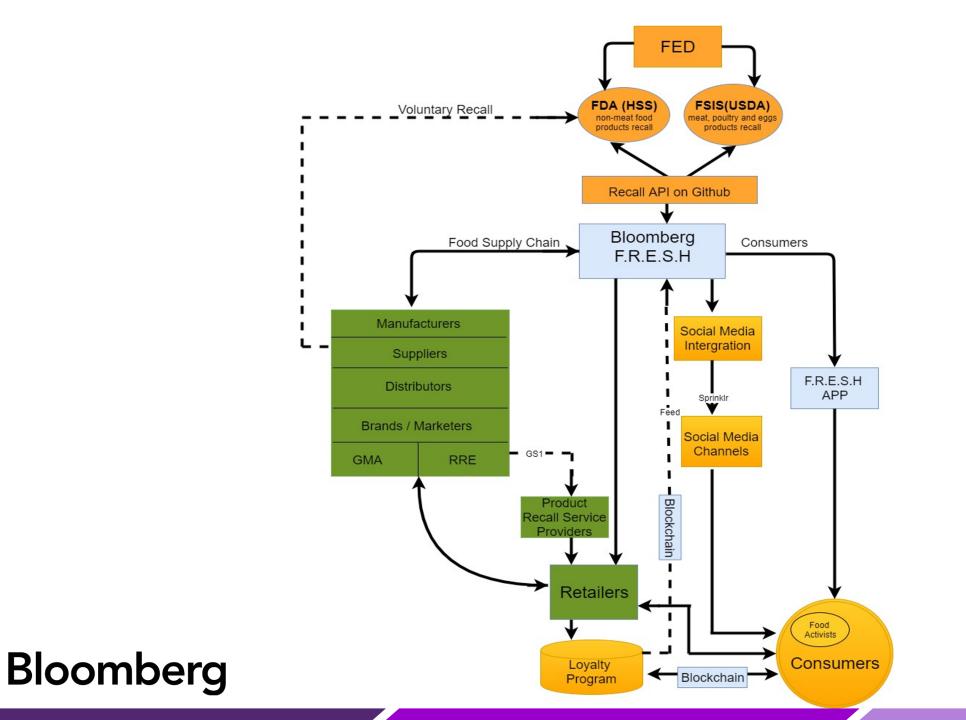




Thank You & Questions









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