



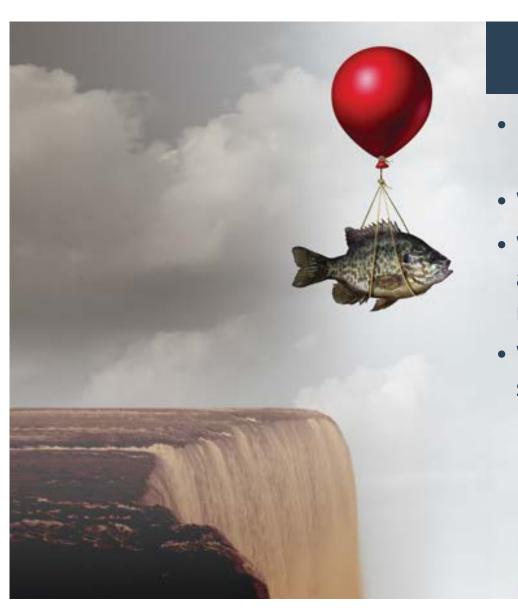
### **Changing Tastes:**

How Americans Will Eat Seafood in the Years Ahead and What's Driving the Change

Arlin Wasserman, Managing Director Changing Tastes







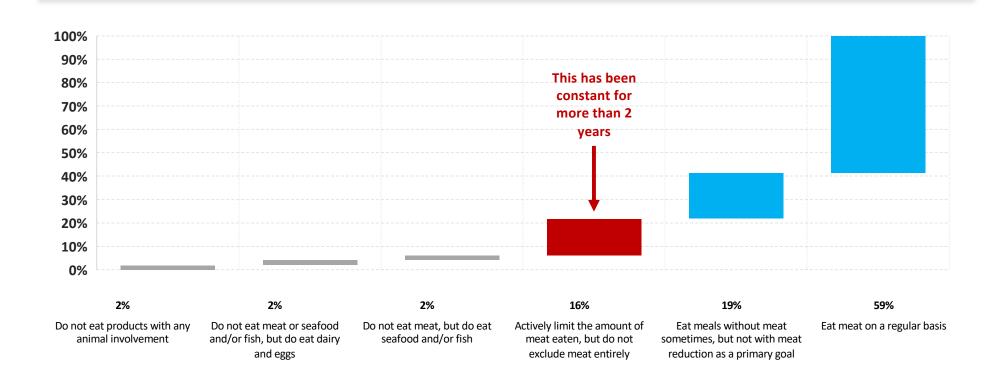
#### A Look Ahead

- How will we eat fish and seafood in the U.S. over the next 3-5 years?
- Where will we eat it?
- What are the opportunities to shift us away from wild capture towards responsible aquaculture?
- What does it all look like on the other side of COVID19?



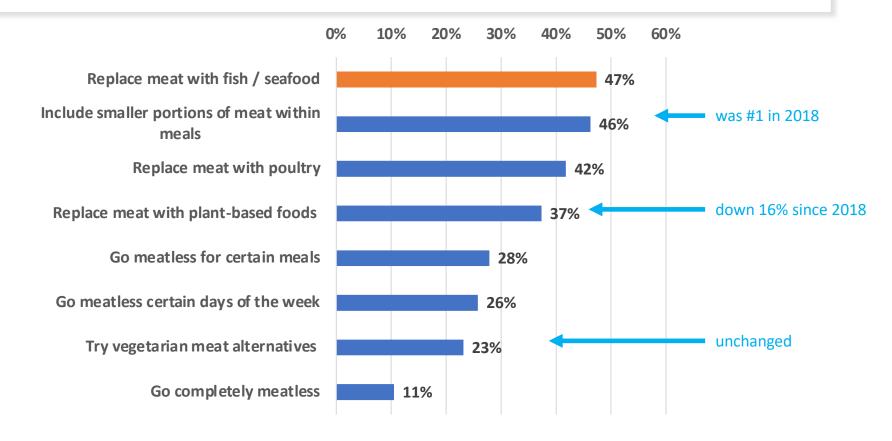
### Fish and Seafood Consumption Poised to Increase in the U.S.

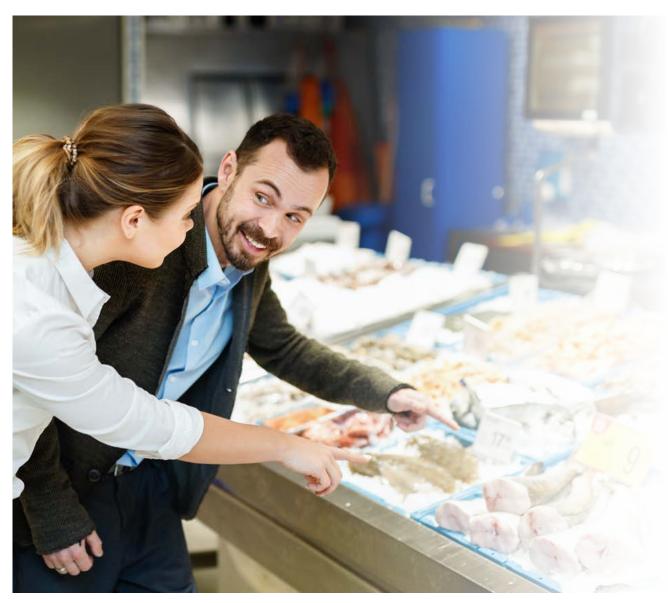
Search for new proteins and increasing diversity of animal proteins are drivers



## Fish and Seafood are Now the Preferred Replacements

Interest in plant-based alternatives is declining...along with actual rate of growth



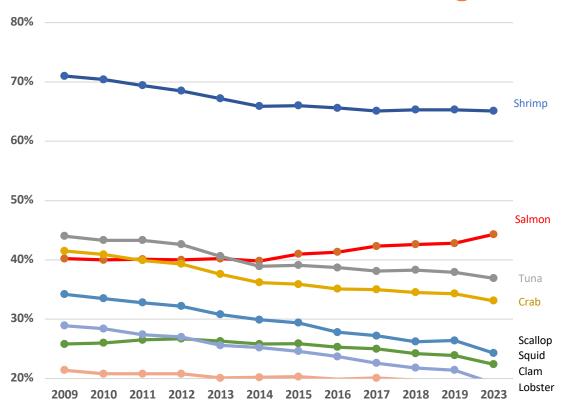


## Types of Fish and Seafood

We *don't have to maintain* the current offer!

# Favored Fish are Shifting Below the Surface

#### **Share of U.S. Menus Offering**

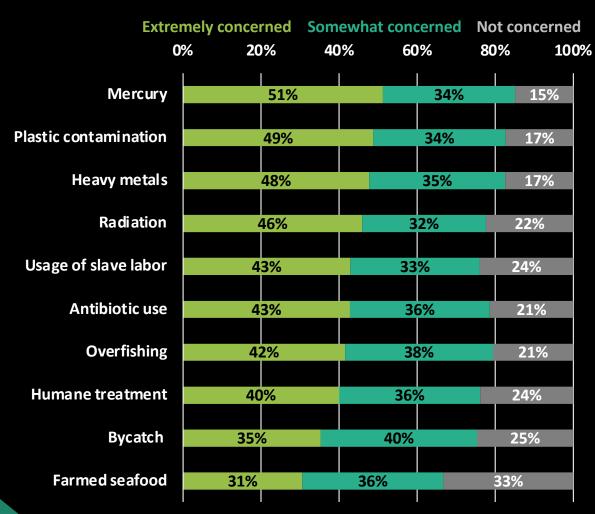


# Favored Fish are Shifting Below the Surface

|    | 2009             | 2010             | 2011             | 2012             | 2013             | 2014             | 2015             | 2016             | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             | 2023             |
|----|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 1  | Shrimp           |
| 2  | Tuna             | Tuna             | Tuna             | Tuna             | Tuna             | Salmon           |
| 3  | Crab             | Crab             | Salmon           | Salmon           | Salmon           | Tuna             |
| 4  | Salmon           | Salmon           | Crab             |
| 5  | Scallop          |
| 6  | Clam             | Clam             | Clam             | Clam             | Calamari         |
| 7  | Calamari         | Calamari         | Calamari         | Calamari         | Clam             | Lobster          |
| 8  | Lobster          | Clam             |
| 9  | Anchovy          |
| 10 | Mussel           | Cod              | Cod              |
| 11 | Cod              | Cod              | Cod              | Cod              | Tilapia          | Tilapia          | Tilapia          | Cod              | Cod              | Cod              | Cod              | Cod              | Cod              | Mussel           | Mussel           |
| 12 | Oyster           | Oyster           | Oyster           | Oyster           | Cod              | Cod              | Cod              | Tilapia          | Oyster           |
| 13 | Tilapia          | Tilapia          | Tilapia          | Tilapia          | Oyster           | Oyster           | Oyster           | Oyster           | Tilapia          | Tilapia          | Tilapia          | Ahi Tuna         | Ahi Tuna         | Ahi Tuna         | Ahi Tuna         |
| 14 | Squid            | Ahi Tuna         | Squid            | Octopus          | Octopus          | Octopus          |
| 15 | Prawn            | Ahi Tuna         | Ahi Tuna         | Ahi Tuna         | Squid            | Octopus          | Squid            | Squid            | Squid            |
| 16 | Catfish          | White<br>Fish    | White<br>Fish    | White<br>Fish    | White<br>Fish    | White<br>Fish    | Ahi Tuna         | Prawn            | Prawn            | Octopus          | Octopus          | Tilapia          | Tilapia          | Tilapia          | Tilapia          |
| 17 | White<br>Fish    | Catfish          | Catfish          | Catfish          | Catfish          | Albacore<br>Tuna | White<br>Fish    |
| 18 | Snapper          | Snapper          | Albacore<br>Tuna | Albacore<br>Tuna | Albacore<br>Tuna | Ahi Tuna         | Albacore<br>Tuna | Albacore<br>Tuna | Octopus          | Prawn            | Prawn            | Prawn            | Prawn            | Prawn            | Prawn            |
| 19 | Albacore<br>Tuna | Albacore<br>Tuna | Snapper          | Snapper          | Ahi Tuna         | Catfish          | Catfish          | Octopus          | Catfish          | Catfish          | Catfish          | Albacore<br>Tuna | Albacore<br>Tuna | Catfish          | Catfish          |
| 20 | Ahi Tuna         | Ahi Tuna         | Ahi Tuna         | Ahi Tuna         | Snapper          | Octopus          | Octopus          | Catfish          | Albacore<br>Tuna | Albacore<br>Tuna | Albacore<br>Tuna | Catfish          | Catfish          | Albacore<br>Tuna | Albacore<br>Tuna |
| 21 | Octopus          | Octopus          | Octopus          | Octopus          | Octopus          | Snapper          |



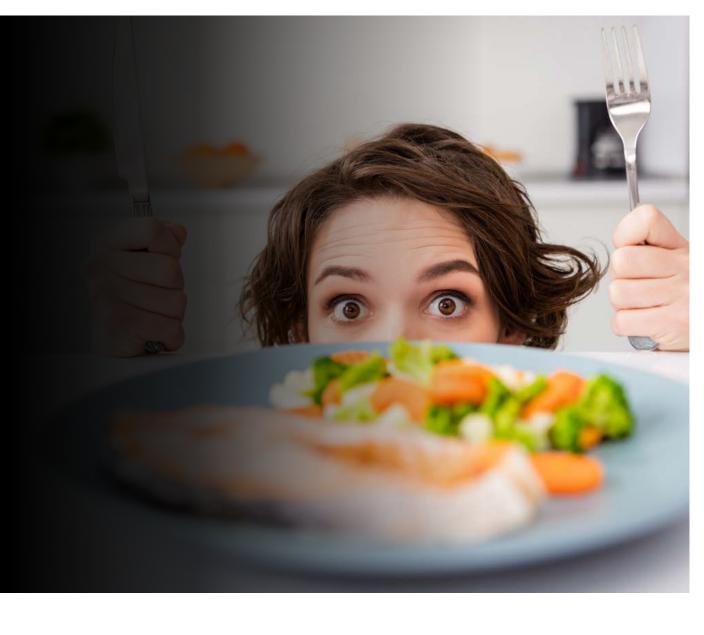
Consumer
Concerns
About Ocean
Health are
Preventing
Increased
Consumption





#### **Key Findings**

- Women are especially concerned and skeptical about how fish is produced and less accepting of any production practice than men.
- Preference for wild erodes with age. Gen Z has less established preference for wild. Gen X is also lower.
- People who try to eat healthy are less likely to prefer wild fish.



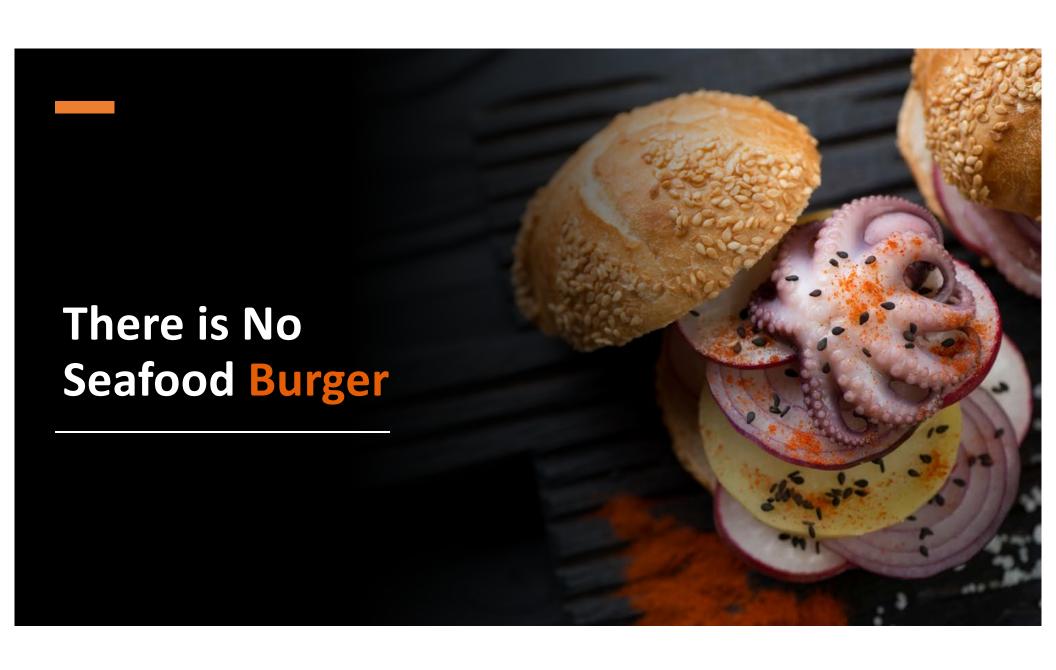
## Amazingly High Receptivity

for cultivated seafood among consumers for a product that doesn't exist on market.

- Ocean health recognition may be major driver.
- Increasing awareness of ocean health issues and COVID19 contamination issues can further shift purchasing decision makers and consumers away from wild fish and towards cellular (and advanced RAS/self-contained recirculating aquaculture).



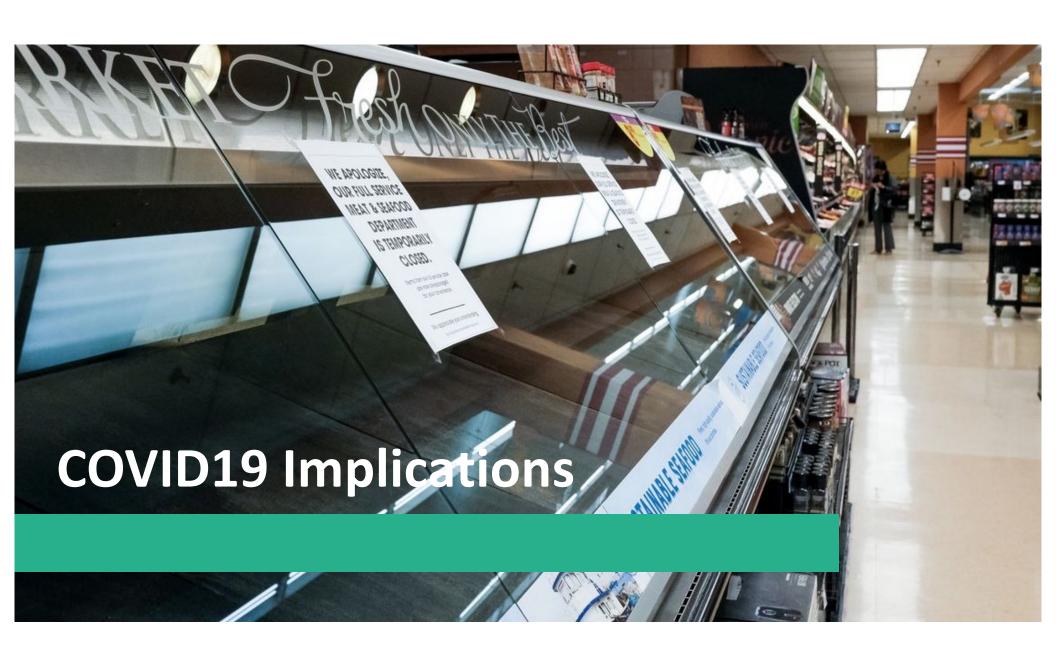




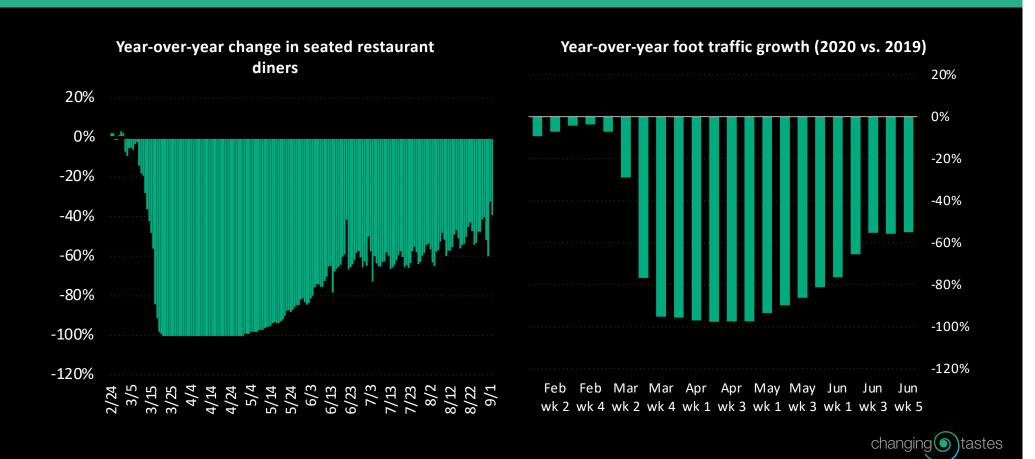
## Clean Label Matters

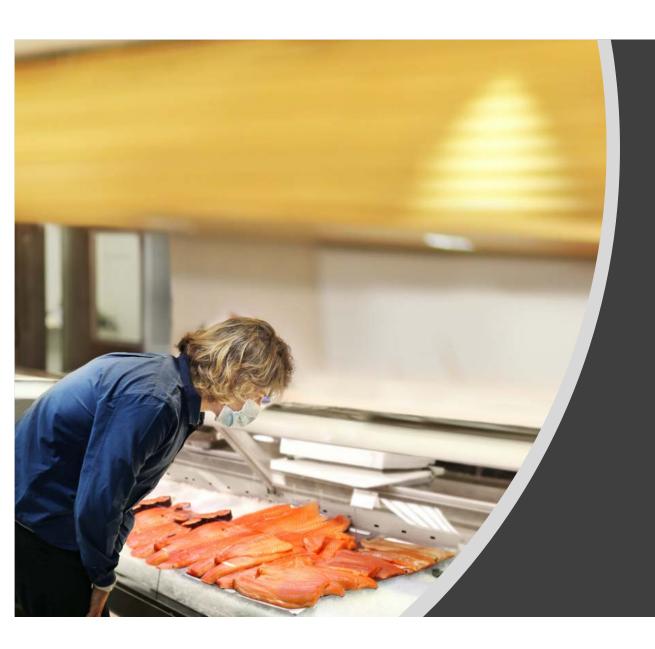






#### **COVID Effects on How We Get Food**





COVID19 has Reshaped How We Buy Fish





And Our
Preferences for
"Cooking."





Turning Interest into Growth for Ready to Serve Products



