## How To Help Restaurants **Survive COVID-19**

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**Team 86** 



### Introduction

#### lssue

In 2020, Congress passed a \$25 billion COVID-19 bailout for the airline industry but not one tailored to the restaurant industry, which is four times bigger in terms of sales and 18 times bigger in number of jobs.

survive.

#### Need

### Restaurants need to know what investments are likely to help them

### Solution

Actionable insights given demographic characteristics, shopping behaviors, foot traffic into different venues, and mobility patterns, features locations and businesses restaurants.



### **Macro-Economic Impact**



= COVID Impact



#### Unemployment

Historic unemployment for the industry (almost 40% compared to only 14% for the total economy)

### **Overall Consumer Analysis**





### **In-depth Analysis: Customer Preferences** and Restaurant **Scenarios in specific** locations

Development of case studies in the West and South regions.



# **In-depth Analysis:**



### In-depth Analysis: San Francisco



• Increase of online and pick-up purchases: Millennials, Generation X and high

• Avoidance of eating at restaurants related to married people, high education and generations X and Jones. Resumed of eating at restaurants: white race

### Restaurants

- Safe spots: Golden Gate Park surroundings Scenario
- North and South of the park businesses in risk
- More delivery services and most strategic position: Twin Peaks surrounding.
- Around 30% of businesses in Financial District, The Castro and Noe Valley are not listing delivery as purchase modality.

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### Insights and Recommendations for cities analyzed



### San Francisco

- **Increase** Delivery options:
  - Low and medium density residential areas
  - Commercial, Industrial areas
- **Increase** Pick-up options:
  - Mixed areas
  - Areas at most 2 km. from high density neighborhoods

### Miami

- **Switch** from Delivery to Pick-up options:
  - Medium and high density residential areas
  - Consider preferences by demographics (using consumer profiles created)
- **Increase** Pick-up options:
  - Areas at most 6 km. from high density neighborhoods

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### Network effects of impact

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#### Restaurants

Help an industry that experienced over 4.5 million lost
jobs at peak in 2020



### Local / State Governments

• Leverage the data to create hyper-local and high-fidelity policies to effect the positive change needed

### **Agencies / Consultants**

• Expand on our models to offer greater advice to clients

### **Other Ancillary Verticals**

• Capitalize on these consumer behaviour trends that overlap with similar business models

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### Thank you.

### **Data Sources**

### **Bureau of Economic Analysis**

### Data

- GDP
- Personal Consumption
- Income
- Employment

### Federal Reserve Bank of St.

### Louis

• Unemployment

### **Household Pulse Survey 2020**

#### **Restaurants Platforms**

- Yelp Dataset
- OpenTable Data

### **Annual Retail Trade Survey**

• Monthly Retail Sales and Inventories

### **Mobility Patterns**

- Apple Mobility Reports
- Descartes Lab Mobility Changes
- Google Community
- Foursquare Community Mobility Data

