

# Agenda

/1	Project Overview
/2	Research and Insights
/3	Ideation
/4	Prototyping & Testing
/5	Final Prototypes

# /1 Project Overview

**Boston Inspectional Services Restaurant Owner Experience** 

### Our Team

Harvard



Emily Chi HKS



Ian Cutler HKS



Nicolas Diaz HKS



Gavin Jiao GSD&SEAS



Amy Villaseñor HBS

City of Boston



Kelly Mackey
ISD

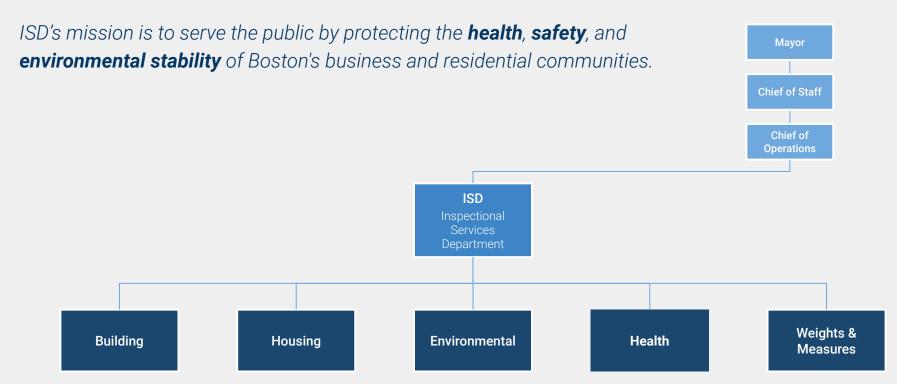


Lisa Timberlake ISD



Reilly Zlab
DoIT

#### Inspectional Services Department



### The Challenge

For restaurant owners, opening a restaurant in Boston can be a challenging process:

- High barrier to entry (1 in 4 new restaurants fail)
- Permitting process feels like an added hurdle
- Approval process can take several months
- Limited communication with City employees
- Strained relationship with inspectors



#### **Problem Statements**

How can we help provide an **accessible**, **efficient**, and **effective** restaurant opening experience while ensuring compliance with existing regulations?



# /2 Research & Insights

**Boston Inspectional Services Restaurant Owner Experience** 

#### Discovery Sprint



Potential Restaurant Owner

Research

Getting permits

Initial health inspection

Annual health inspection

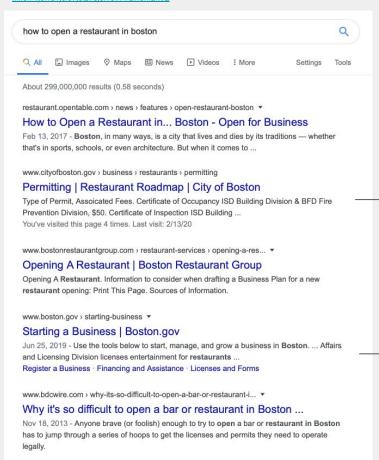
– Boston restaurant owner

"If you Google how to open a restaurant, there is

nothing on the city webpage - no roadmap."

(How to open a restaurant in Boston"

https://www.google.com/search?sxsrf=ALeKk02zkeI0dTszBwKO15ym6\_343WNt1A%3A15822998 12196&ei=pPpPXpHDC4zL\_QaCup-oDA&q=how+to+open+a+restaurant+in+boston&oq=how+to+ pp&gs\_l=psy-ab.1.0.35i39!2i0l8.157415.168156..170482...13.4..0.122.1047.5i6.....0....1..gws-wiz... ....0i71i0i131i0i67ji0i273i0i10.f7YBX6mLwtQ



boston.eater.com > country-mile-matt-sargent-restaurant-opening-pro... \*

What It Takes to Open a Small Restaurant in Greater Boston ...

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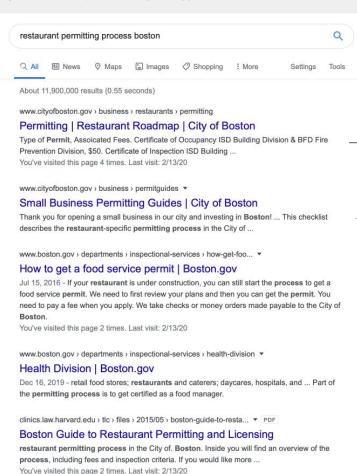






(Restaurant permitting process Boston"

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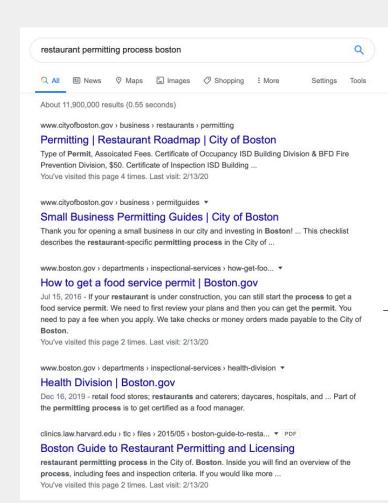


https://www.cityofbosto n.gov/business/permitg uides/

2010 Guide on Harvard Law School Webpage



http://clinics.law.harvard .edu/tlc/files/2015/05/bo ston-guide-to-restaurant -permitting-and-licensin a-20101018-165426.odf



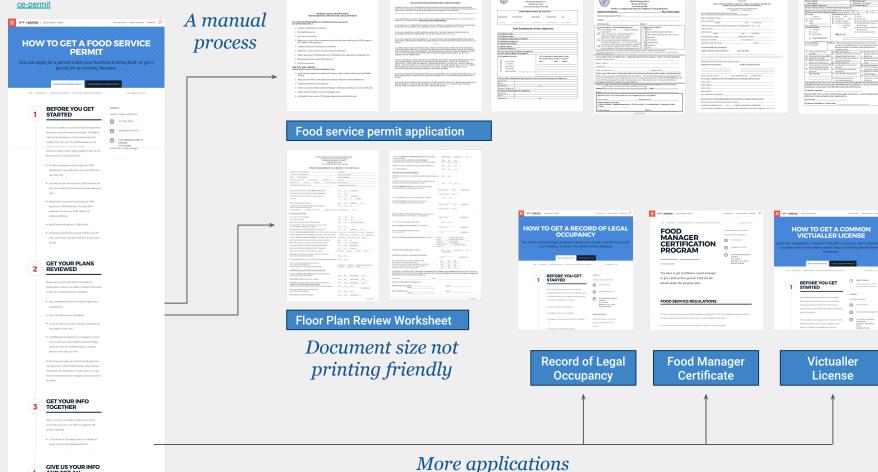
https://www.boston.gov/departments/in spectional-services/how-get-food-servi ce-permit

A step by step guide for one of the permits. (Food Service Permit)



https://www.boston.gov/departments/in spectional-services/how-get-food-servi ce-permit

AND GET AN



## Mapping the process



### Customer Journey Map

_													
	Rese	earch			Getting permits			Initia	al health insped	ction	Annı	ual health inspec	tion
Potential Restaurant Owner	Figure out by myself	Check zoning	Get restaurant design approval (ISD)	Get building permit	Apply for food service permit @1010 Mass	Get liquor permit	Make appoint. for health inspection	Initial health inspection	Improve operation	Get food service permit	Check health code updates	Health inspection	Improve operation
	Hire a lawyer/ expediter	Check building's use & occupancy	Get business Permit @ City Hall	Get fire dept. safety permit	Get ServSafe certificate for managers	Get live entertainment permit, etc.		Get improvement checklist	Follow up inspection			Get improvement checklist	Follow up inspection
Economic Development Dept.	Guide and advice	Workshop Series											
Inspectors						Review application	Confirm appointment	Conduct Inspection & give report	Conduct Inspection		Learn new health code	Conduct Inspection & give report	Conduct Inspection
Inspectional Service Dept.					Receive files	Review application					Train inspectors		
ISD Communication Touchpoint	Outreach activity			Paper forms and guides									

Potential Restaurant Owner

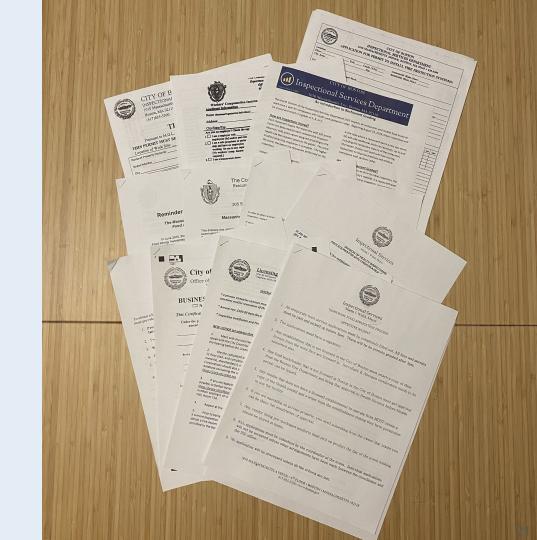
Research Getting Initial Annual Health inspection Health inspection Feedback

Manual, disjointed, paper-based process is difficult for restaurant owners to navigate.

"It's a comedy, trying to get all the signatures that you need."

"The most frustrating part...is being passed on to different departments for a simple question and not being able to get a straight answer."

"You may find out too late that you can't open because there is something you had to do that you didn't realize."



Restaurant owners do not feel that they can voice their concerns about the process to the City of Boston.

"Is there a feedback form? Like, 'You were really rude to me at the counter. I want to give you one star'."

"I would hope my feedback could help someone in the future"

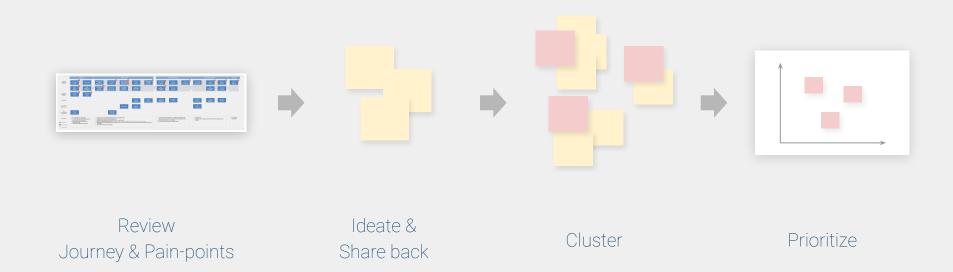
"They should host open meetings... between restaurants with their grievances and the inspectors to talk about what can be done to make the process more efficient."



# /3 Ideation

**Boston Inspectional Services Restaurant Owner Experience** 

#### Ideation Process

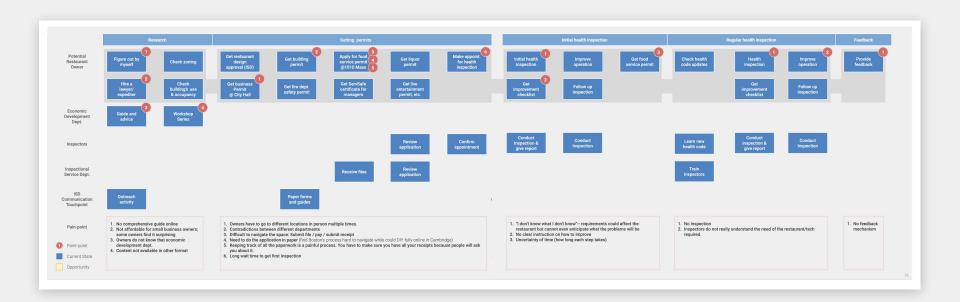


#### Adjusting to impact from COVID-19, 2 major changes

- Sourcing Users
  - 1. Social media marketing
    - Personal accounts
    - Professor account
  - Network outreach
    - Friends
    - Professors' networks

- 2 Ideation & Testing Methods
  - 1. Clear purpose for session
  - Outline tools to use
    - PPT, Stormboard
  - 3. Create script for hosting team
  - Full run-through before live session run by same person who will run live session
  - 5. Update script based on experience
  - 6. Send instructions to partner team before live session

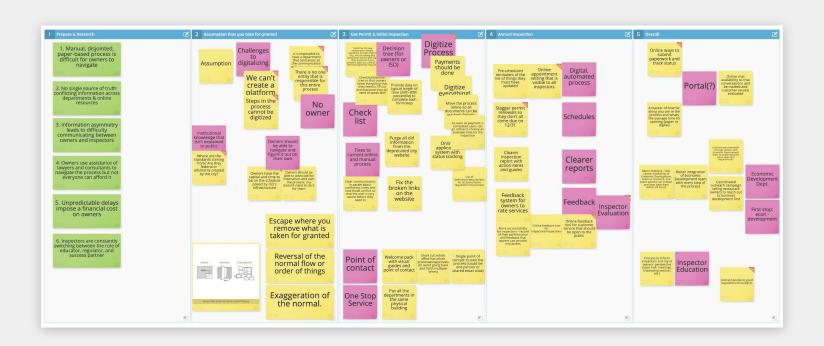
#### Reviewing Pain-points



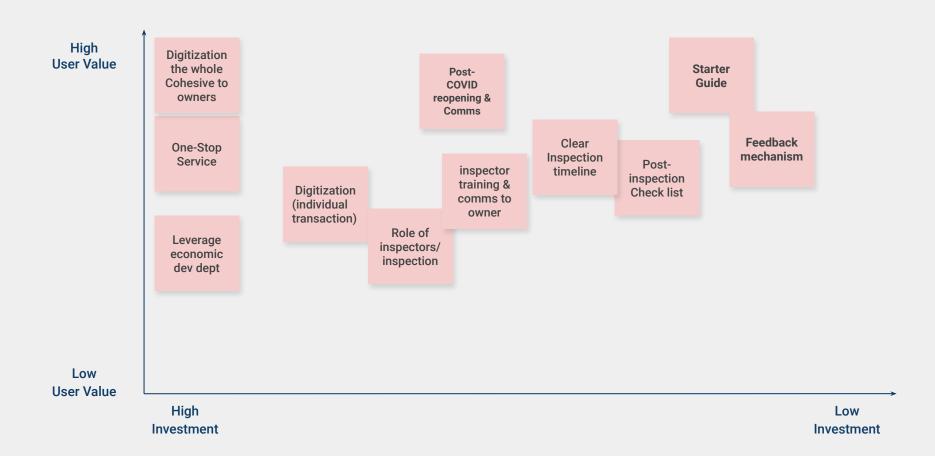
### Ideation



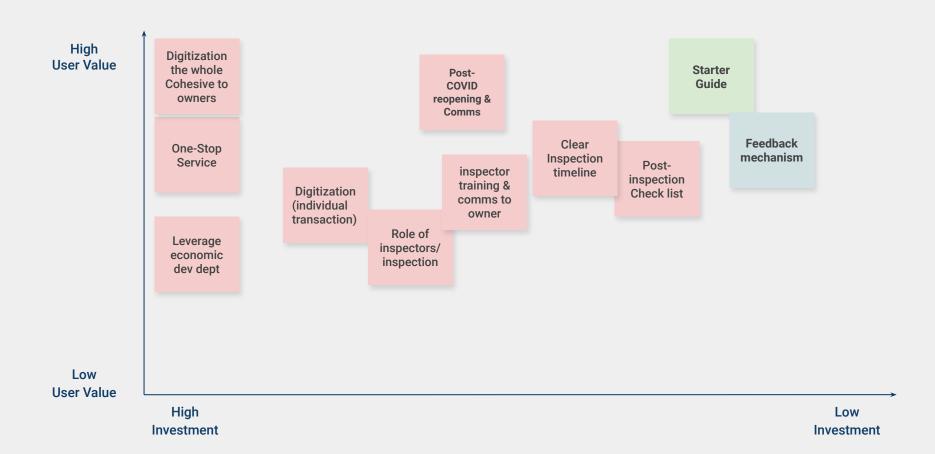
#### Clustering



#### Idea prioritization



#### Idea prioritization



### Concept Overview

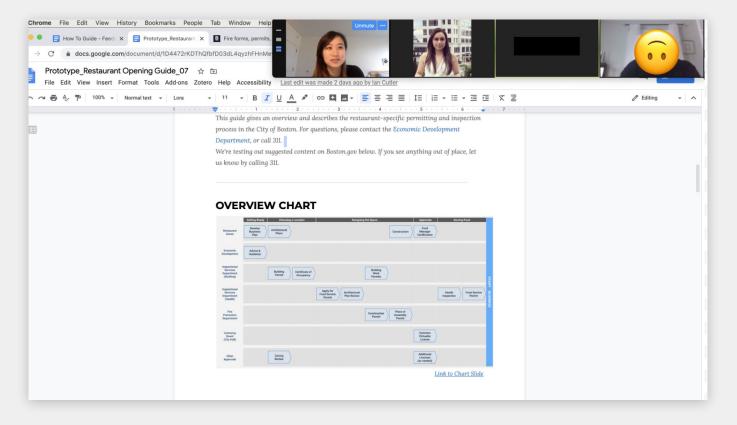


Feedback Mechanism Starter Guide

# /4 Prototyping & Testing

**Boston Inspectional Services Restaurant Owner Experience** 

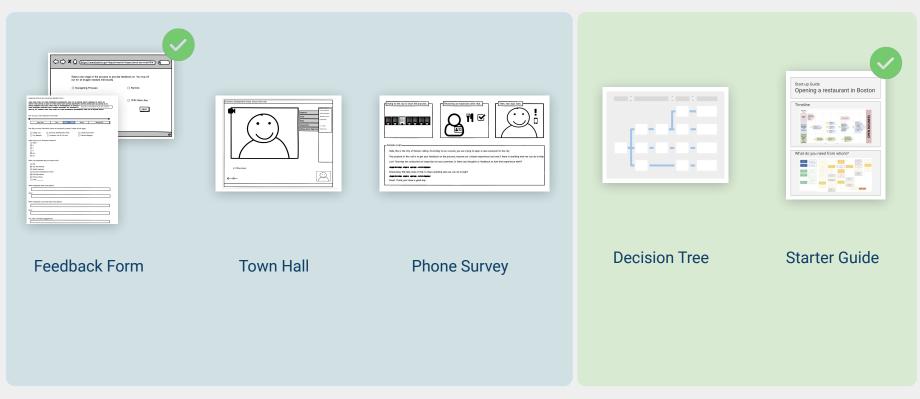
#### Testing



# Voting

	Kelly		Reilly	
	Feasibility (5=easiest)	City Value (5=highest value)	Feasibility (5=easiest)	City Value (5=highest value)
1. Decision tree (paper)	3	4	4	2
2. Starter guide	3	4	3	2/3
3.1 Feedback form (paper)	4	3	3/4	3
3.2 Feedback form (online)	4	3	4	3
3.3 Feedback form: 1010 Mass ave	4	3	3/4	3
3.4 Feedback form: inspectors	3	3	2	3
4. Town hall meetings	3	4	3/4	3
5. Phone Survey	3	2	3	2

#### Concept Overview



Feedback Mechanism Starter Guide

#### Iteration

#### Feedback Mechanism/Survey Forms

Good afternoon,
As you know, CDD recently hired a consultant to review the current process of small business permitting and licensing, and t provide recommendations on ways to make it easier to do business with the City.
Our consultant would like to gather feedback from business owners on their experiences working with the city. Below is some text we would ask to you use and send out your members and other business owners in the Cambridge community.
Thank you in advance,
Pardis
City of Cambridge Small Business Efficiency Project Survey
Please take a few minutes to fill out the survey below.
We are asking current small business owners to provide their feedback by taking the Small Business Efficiency Survey. Survey responses are anonymous and will be used to help better understand the experiences of local business owners to better improve the process in the future.
Recently, CDD hired a consultant to review the current process of small business permitting and licensing, and to provide recommendations on ways to make it easier to do business with the City.
This is a continued implementation of the Community Development Department (CDD) 2017 Retail Strategic Plan, which includes looking at ways to reduce barriers to starting and growing a small business.
Click here to take the survey by March 20, 2020.
Pardis Saffari, ShulHeriHers Senior Economic Development Manager Economic Development Division Cumbridge Community Development Department
348 Broadway, 3 <sup>rd</sup> floor Cambridge, M.A. 02139 www.cambridgema.gov bealfass@cambridgema.gov 617/349-4654 617/349-4621 TTY

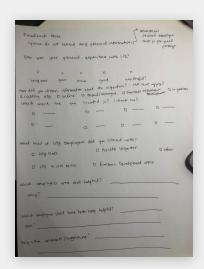
Cambridge

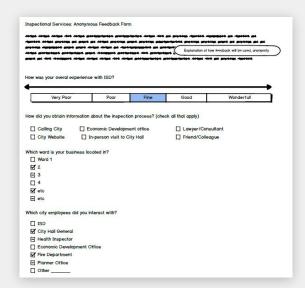
Survey 5: City of Boston Small Business Survey RE: COVID 19	
Thank you for continuing to share your experience with us amidst this evolving situation. This survey will close on Monday, April 28 at midnight.	
The Mayor's Office of Economic Development is here to support you. Please fill out this survey to the best of your ability so we can identify and support the needs of our business community. Your answers will be kept private unless you specifically request follow-up.	
If you have any additional questions, please contact Natalia Urtubey, director of Small Business (natalia urtubey/Boston.gov).	
You can also send any general questions, ideas, and comments to <u>smallbia@boston.goz</u> Required	Have you had to close your business due to COVID-19? *
	No, I am an essential business
Business Name *	No, I am not essential but my business can be sustained remotely or online
Your answer	Yes, I am a non-essential business and had to close due to the Governor's Executive Order
Owner Contact	Yes, I am an essential business and I closed
Your answer	Other:
Owner Email *	What will you do if the Governor does not open businesses after May 4th? *
Your answer	Continue to wait it out and remain closed
	Continue or begin to operate take out and delivery only
	Continue or develop online and virtual business
	Continue or develop online and virtual business  Likely go out of business permanently
	Likely go out of business permanently
	Likely go out of business permanently  Are you interested in providing take-out and delivery options for your business?
	Likely go out of business permanently  Are you interested in providing take-out and delivery options for your business?  Ves
	Likely go out of business permanently  Are you interested in providing take-out and delivery options for your business?  Ves
	Likely go out of business permanently  Are you interested in providing take-out and delivery options for your business?  Yes  No
	Likely go out of business permanently  Are you interested in providing take-out and delivery options for your business?  Yes  No  Which describes your business type *

Boston COVID response

### Iteration

### Feedback Mechanism/Survey Forms





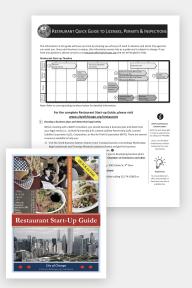
		e with the	departme	ent(s) you ii	nteracted wit	in.
	Very Poor	Poor	Fair	Good	Excellent	N/A (Did not interact)
Health	0	0	0	0	0	0
Building	0	0	0	0	0	0
Economic Development	0	0	0	0	0	0
Fire	0	0	0	0	0	0
Planning	0	0		0		_
o you have fe	eedback on y					
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### Iteration

### Restaurant Opening Guide





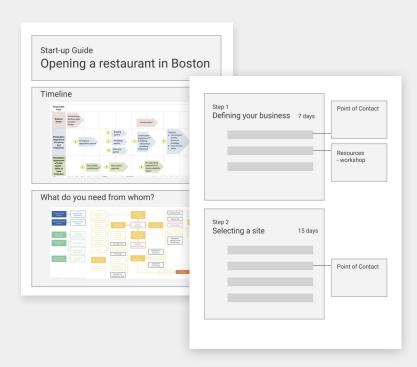




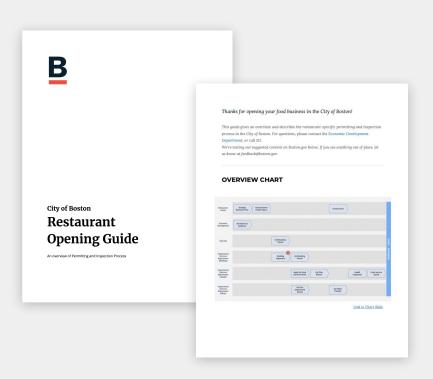
Boston, 2010 NYC Chicago Philadelphia

### Iteration

### Restaurant Opening Guide



First iteration (proof of concept)



Latest iteration

# 1/5 Final Prototypes

**Boston Inspectional Services Restaurant Owner Experience** 



### Feedback Mechanism

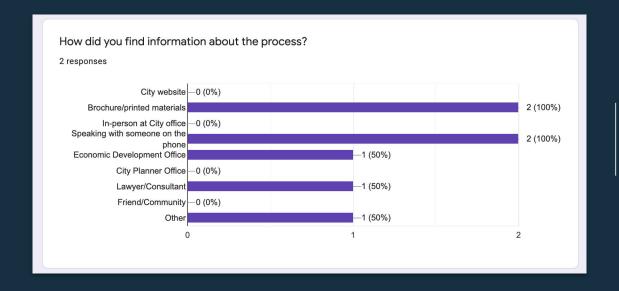
Google Form can easily be updated

City already uses Google forms

Please rate you						N/A (Did
	Very Poor	Poor	Fair	Good	Excellent	not interact)
Health	0	0	0	0	0	0
Building	0	0	0	0	0	0
Economic Development	0	0	0	0	0	0
Fire	0	0	0	0	0	0
Planning	0	0	0	0	0	0
Do you have fee	edback on y	our exper	ence with	the HEALT	'H departme	ent?
Your answer  Do you have fee						
Your answer						

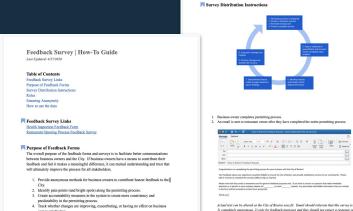
"I want to be able to rate each department, not just give overall process feedback."

### Feedback Mechanism



Data automatically updated in spreadsheet and charts

### Feedback Mechanism How-To Guide



3. Two reminder emails are sent to business owners if they do not complete the survey after the first

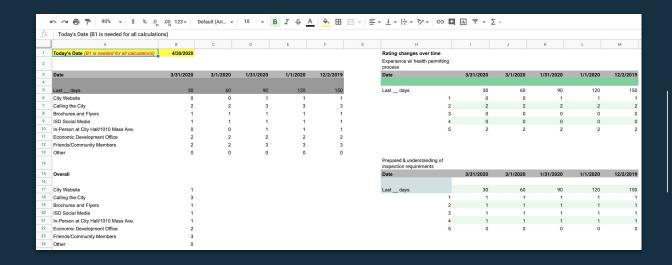
5. Increase stakeholder investment by giving all departments meaningful metrics.

4. Business owner completes the survey. Survey answers are populated to a spreadsheet on the Process owner performs data analysis on data, tracking long-term changes and trends. 6. Monthly reports are submitted to each department/team in an aggregated form (not direct access to raw data). 8. Long-term changes in response to the changes are tracked. Positive results from the survey are documented and shared with business owners, so they are made aware that their input was valuable and led to positive impact. IT to administer survey and manage data, oversees security and access controls One designated individual from each team/department who receives monthly reports Owned by the Economic Development Office or ISD, who has access to all data (with some fields removed as necessary), designs surveys, sends monthly reports to each department, and administers the survey (manages communications to business owners). Business owners are only willing to give candid feedback with the assurance that their statements and opinions will be kept anonymous. Because business owners depend on the City's approval to continue to operate, they may be fearful of retribution or unfavorable treatment if their identities are exposed. Thus, Results of surveys are aggregated, so a single response carnot be singled out. Potentially identifiable information like date of inspection or inspector name are omitted or obfuscated when shared with stakeholders Names, restaurant names, addresses, or other personally identifiable information should not be collected in the survey. IT should manage databases and only grant access to the raw data as needed, in aggregated form ISD or the Economic Development Office should administer the surveys and act as an intermediary to ensure email addresses and other identifiable information/unique markers are not passed on to feedback recipients. Feedback that alludes to specific incidents will not be directly communicated to feedback recipients to protect owners from potential retribution. Reports will summarize the findings, trends, and patterns, rather than direct quotes. IT administrators, and feedback recipients will be trained on best practices to access analyze and interpret results without identifying the surveyor/business. How to use the data 1. Use the charts to track feedback/ratings over time a. Auto-updated charts for changes of ratings over time 2. Send data to diff departments periodically a. Pulling reports instructions (using charts in step 1) b. Email template to each department a. The teams involved mentioned in the Restaurant Opening Process Feedback Survey

"You have to be really political in this town cause if they don't like you, they will shut you down to start hitting with you fines out of nowhere."

Distribution and Process Instructions
Privacy and Anonymity Best Practices
Data Analysis Guidance

### Feedback Mechanism - Auto-Updating Dashboard



Auto-Updating Dashboard
Reports distributed across departments
Creating data visualization



CITY OF BOSTON

# RESTAURANT OPENING GUIDE

A Guide to Permits, Licenses & Inspections

May 202

CITY of BOSTON

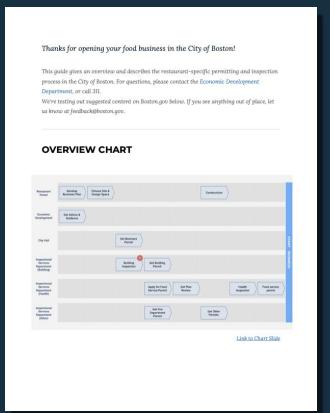
"Oh jeez, I would've loved something like this when I was opening. When I hire someone [an attorney] I'm sitting there thinking, what the h\*II is she doing? Why isn't this done yet?"

Quick Update via Google Doc

**Embedded Links** 

Printer Friendly

Visual overview of the process
Highlight ISD Health Division as
the first stop for permits



Directing restaurant owner to Economic Development for advice and guidance.

"I like this a lot, but I want to know how long each step takes."

Step by step guide with link to corresponding document or website

Tips and useful information

#### STEPS

NC : New Construction | CO : Change of Owner

#### STEP 1

#### CHOOSING A LOCATION - ZONING AND OCCUPANCY

- Check zoning online by searching for parcel designation on the Boston Redevelopment Authority's searchable map. № CO
- Check whether Restaurant, Take-out, Drive-in, or Live Entertainment uses are Allowed, Forbidden, or Conditional in the Zoning Code (by Neighborhood District in Articles 38-73).
- Check the building's existing legal use and occupancy online through the Building Permit Search, NCCO
- To change the zoning or use, file a Long Form online and appeal to the Zoning Board
  of Appeal if it is a conditional or forbidden use at that location. NC CO

The Economic Development Center offers workshops to increase access and opportunities, including workshop series tailored to food businesses.

#### STEP 2

#### DESIGNING THE SPACE - CONSTRUCTION AND BUILDING APPROVAL

- Get your plans reviewed: obtain inspectional Services Department (JSD) Health Division approval of restaurant design before construction or alteration. Reguest a Plan Review appointment at 617-635-5326, then bring a completed Food Service Health Permit Application, permit payment receipt, 4 sets of plans to the appointment, equipment specifications from manufacturer, Food Plans Review Worksheet, menu with consumer advisories (if apply), and building permit signed by inspector . McCO

Learn about the Inspectional Services permitting process here.

Learn about the Food Service Health Permit application process here.

### Inspection checklist

#### HEALTH INSPECTION - FOOD SERVICE HEALTH PERMIT (View Details)

#### MANAGEMENT AND OPERATIONS

- ☐ Person In Charge (PIC) assigned, knowledgeable, performing duties
- ☐ Proper, adequate handwashing
- ☐ Chemicals stored properly and safely
- $\hfill\square$  Soiled linens stored in proper container
- ☐ Mops and brooms stored properly

#### FOOD SAFETY

- ☐ Proper food safety practices in storage, preparation, and service of food
- ☐ Proper labeling of food containers and prepackaged foods
- ☐ Coolers and/or hot holding units operating at proper temperature levels
- ☐ Thermometers available to check food product temperatures
- ☐ Food properly protected from contamination in storage, display, and preparation
- ☐ In-use food utensils properly stored
- ☐ Proper segregation of cooked and uncooked foods
- ☐ No re-service of potentially hazardous or unwrapped foods

#### **EQUIPMENT AND UTENSILS**

- ☐ Three compartment sink with drainboards OR dishwashing machine operational and properly sanitizing (test kit for chemical sanitizing or proper temperature for high-temp sanitizing)
- ☐ Wash water and rinse water are clean
- ☐ Wiping cloths used for raw food stored in separate sanitizing solutions
- ☐ Mop sink provided
- ☐ Separate handwash sink in food preparation area
- ☐ Food contact surfaces properly designed, maintained, installed
- □ Non-food contact surfaces properly designed, maintained, installed
- ☐ Proper storage of pots and pans

#### PLUMBING AND WASTE DISPOSAL

- ☐ No waste water back up; proper backflow devices installed
- ☐ Adequate number of refuse containers, clean and covered

#### PHYSICAL FACILITIES

- ☐ No evidence of rodents or insects
- $\hfill \square$  Light fixtures above food products have protective shields properly installed
- ☐ Handwash sinks with soap, drying device
- ☐ Outside storage area clean

"Oh, that's great! With all the numbers right there with the contacts."

#### CONTACTS

AGENCY	WEBSITE	PHONE
Economic Development	https://www.boston.gov/departments/ economic-development	617-635-5729
ISD Building	https://www.boston.gov/departments/ inspectional-services/what-building-pe rmit-do-i-need	617-635-5300
ISD Health	https://www.boston.gov/departments/ inspectional-services/health-division	617-635-5300
Boston Licensing Board	https://www.boston.gov/departments/ licensing-board	617-635-4170
BFD Fire Prevention Division	https://www.boston.gov/departments/ fire-prevention	617-343-3628

#### WE COULD USE YOUR FEEDBACK

At the City of Boston we are always looking for ways to enhance the services we provide to the public. By completing the anonymous survey at the following link, you are contributing to the continuous improvement of the restaurant opening process and letting us know areas where we could improve:

https://drive.google.com/open?id=1Osd45nHiV3FMUTgrkBt88O7m70oQEerTwtjl0p0dqUs

Link to feedback form

& Contact Information



# Our lessons learned

1 Talk with the users

Test quickly and adapt - look out for value and scalability

Build solutions alongside the implementers

Check your own biases and keep things well documented



### Recommendations

1 Provide owners with process timeline transparency to build consistency and trust

2 Increase coordination and incentives across departments

3 Recognize limitations in identifying **equity based challenges** faced by owners

City of Boston Inspectional Service Department × Harvard University DPI 663 Tech and Innovation in Government

# Thank you!

**Boston Inspectional Services Restaurant Owner Experience**