

SyntheticMass Web

Development & Design

WebFlow

Possible website navigation options

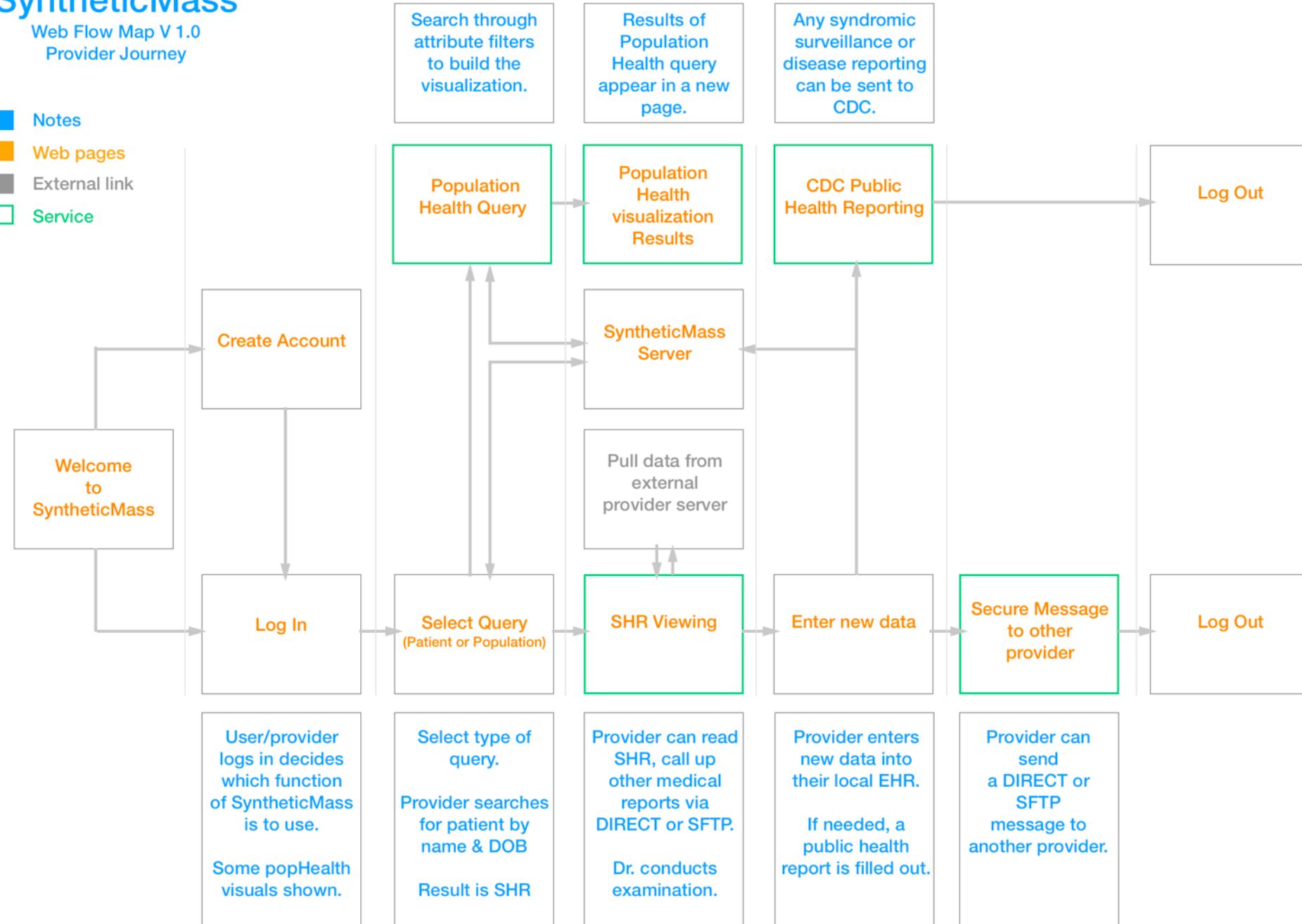
Covers 3 uses:

- Medical Professional
- Patient
- Researcher

SyntheticMass

Web Flow Map V 1.0
Provider Journey

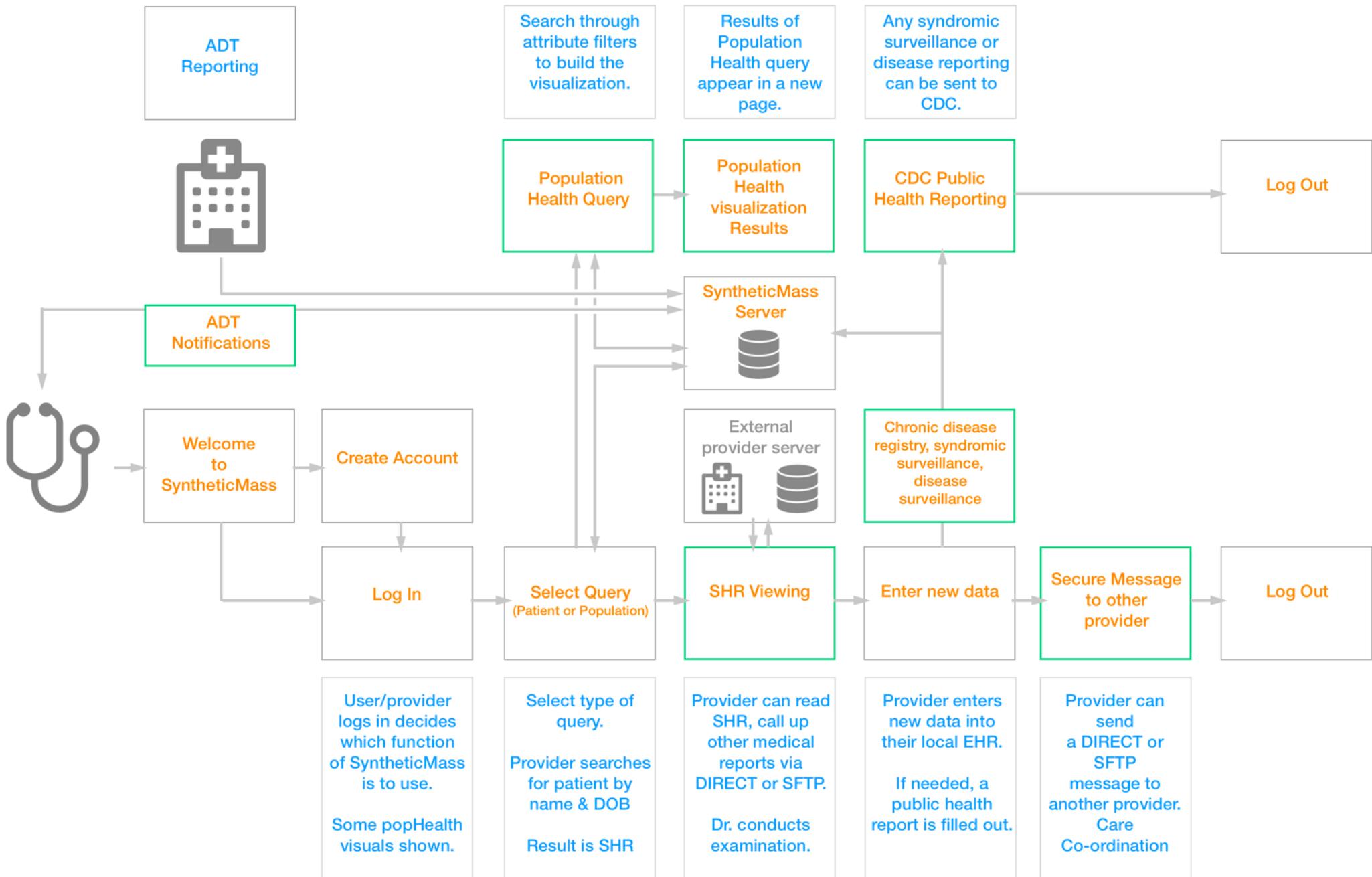
- Notes
- Web pages
- External link
- Service



SyntheticMass

Web Flow Map V 1.0
Provider Journey

- Notes
- Web pages
- External link
- Service

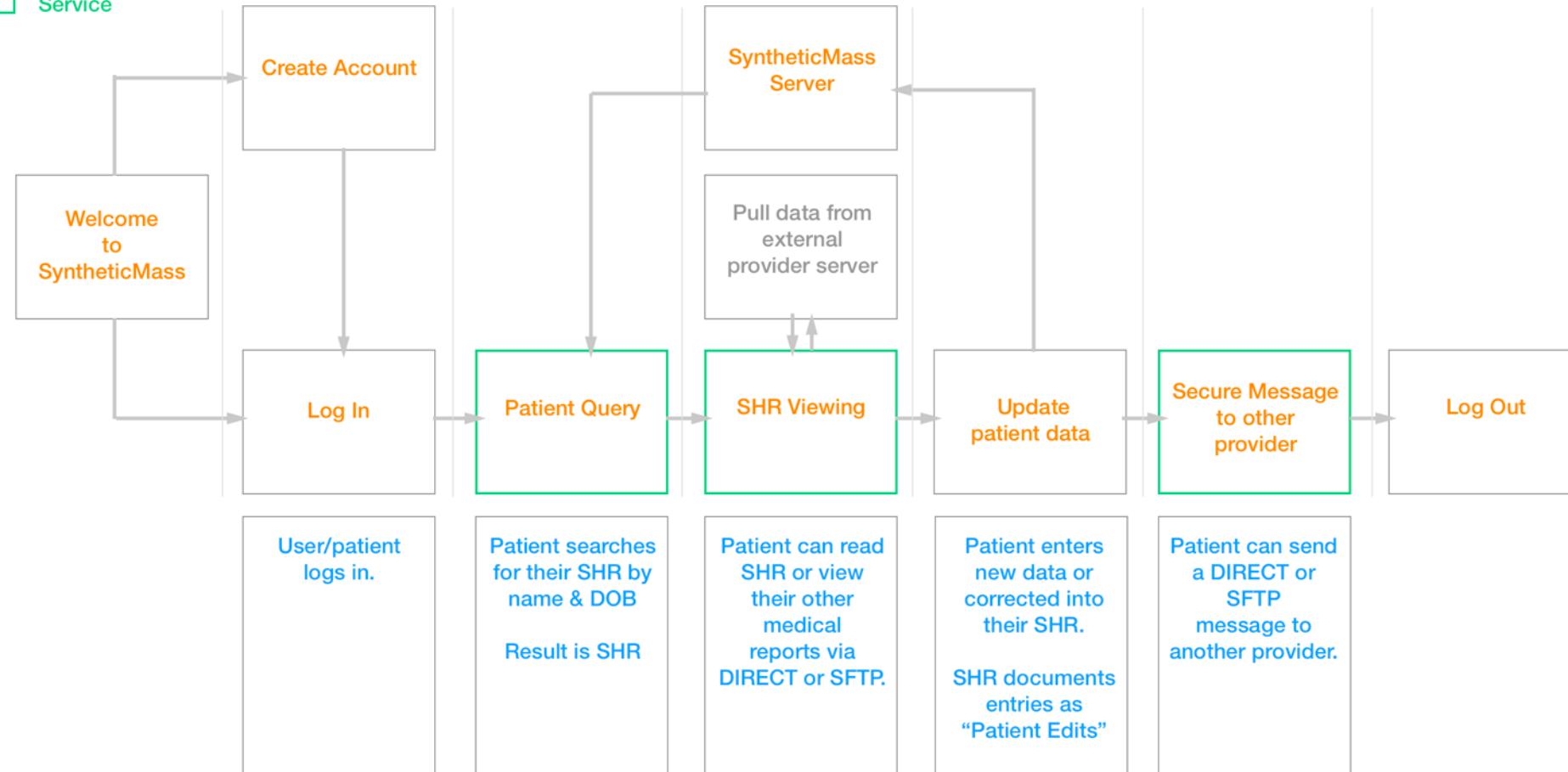


SyntheticMass

Web Flow Map V 1.0

Patient Journey

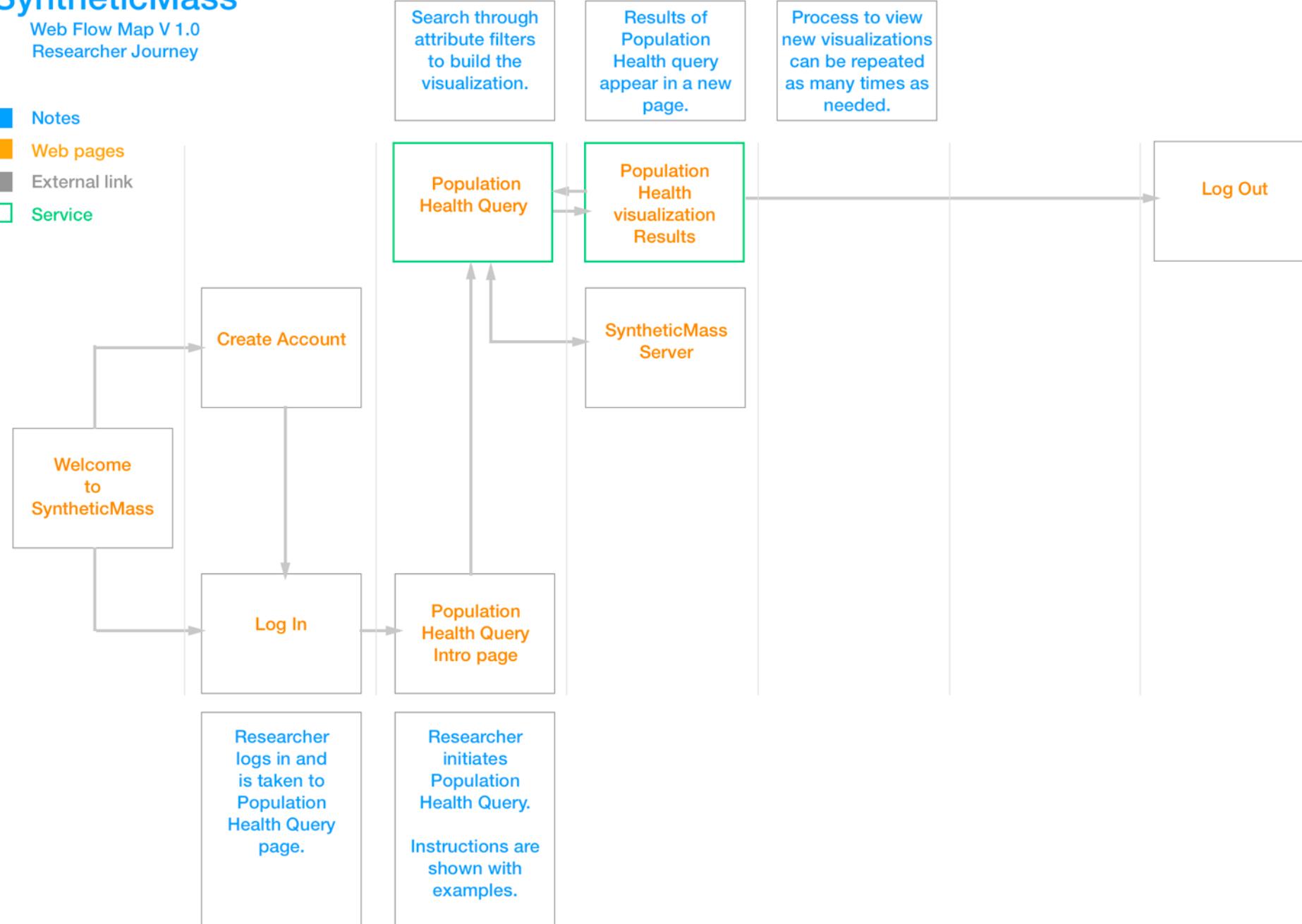
- Notes
- Web pages
- External link
- Service



SyntheticMass

Web Flow Map V 1.0
Researcher Journey

- Notes
- Web pages
- External link
- Service

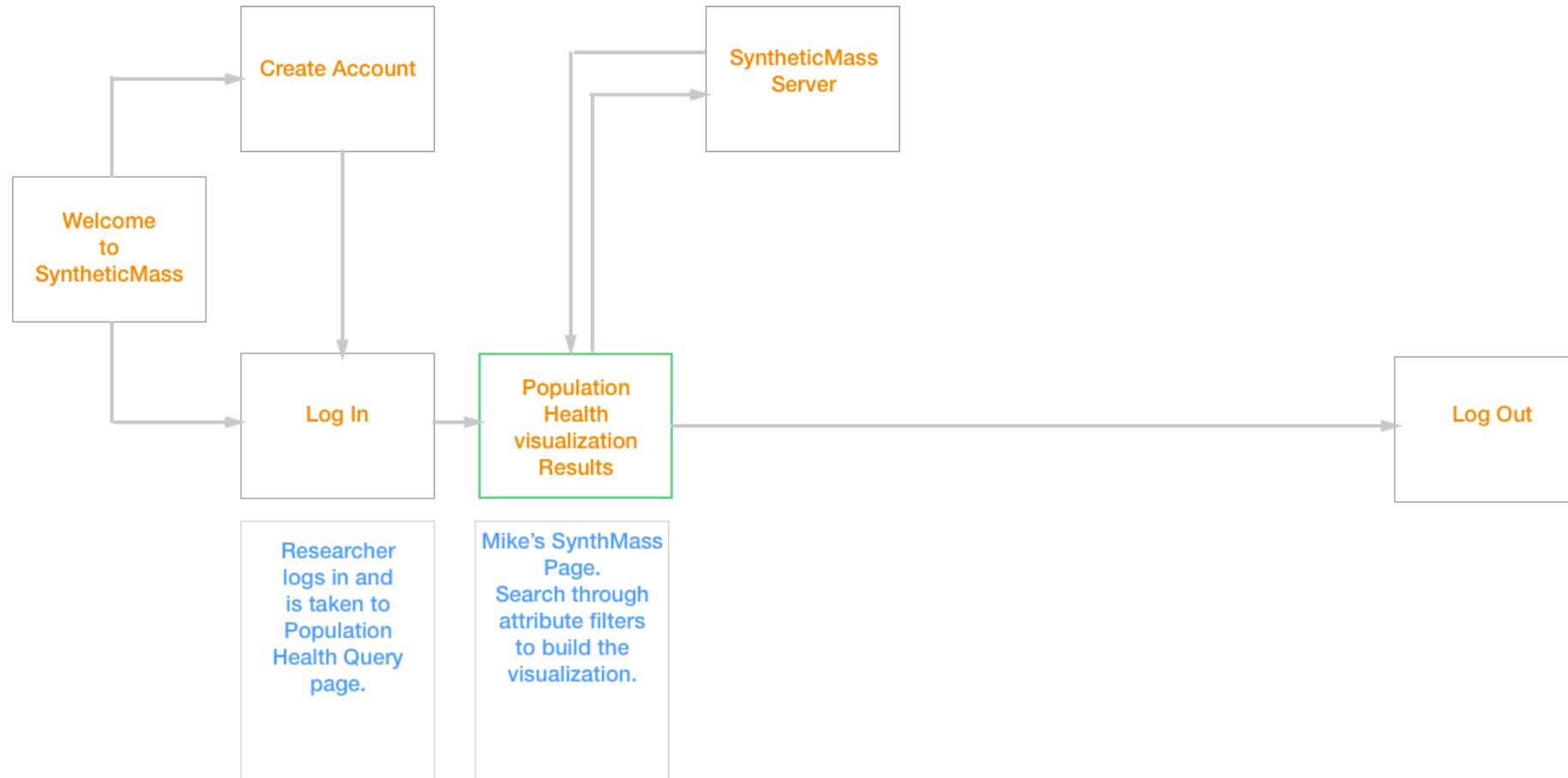


SyntheticMass

Web Flow Map V 1.0

Researcher Journey

- █ Notes
- █ Web pages
- █ External link
- █ Service

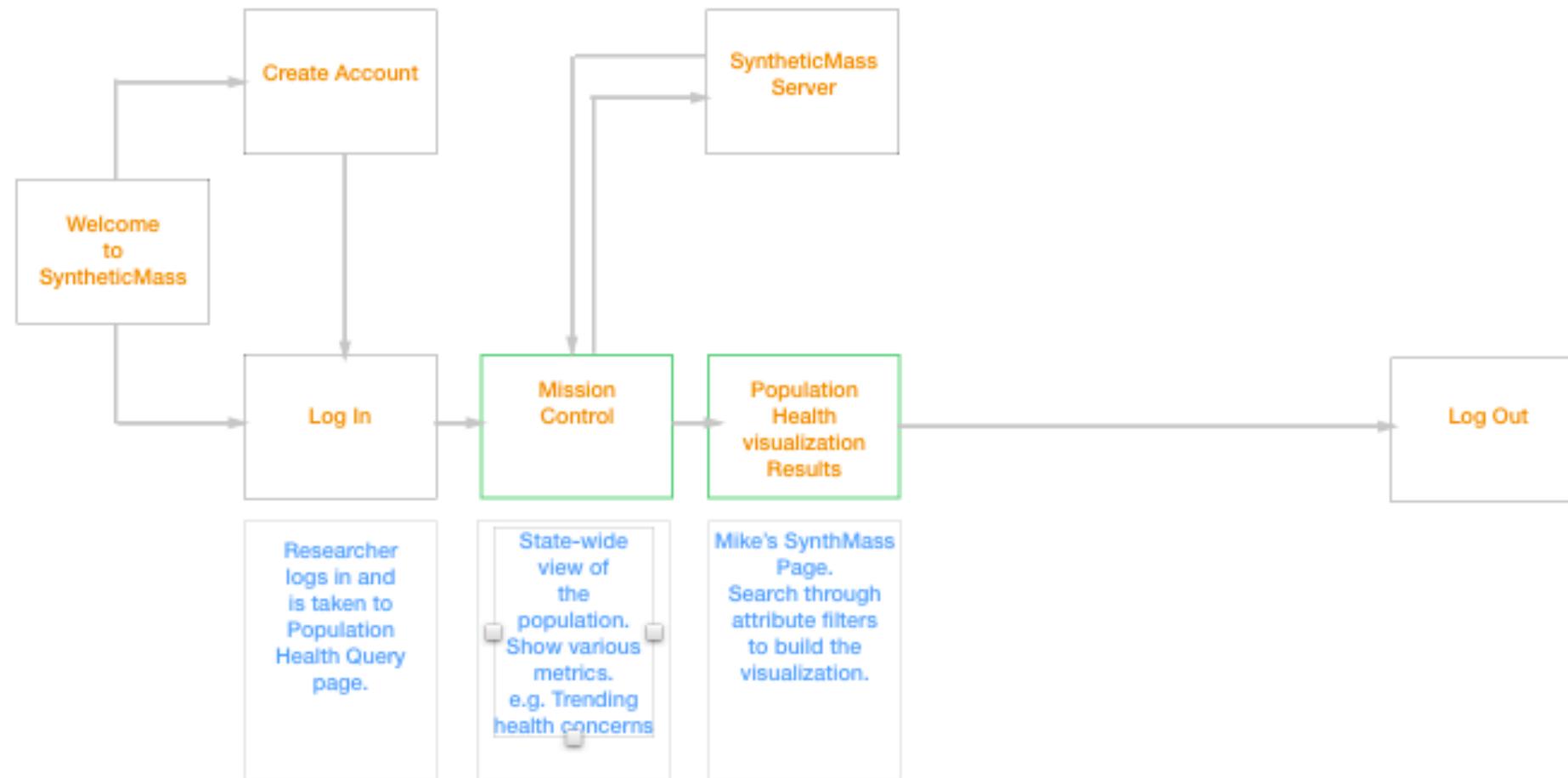


SyntheticMass

Web Flow Map V 1.0

Researcher Journey

- █ Notes
- █ Web pages
- █ External link
- █ Service



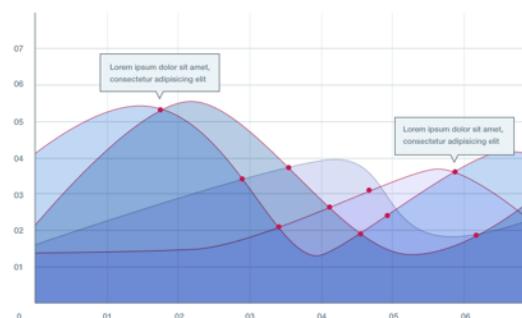
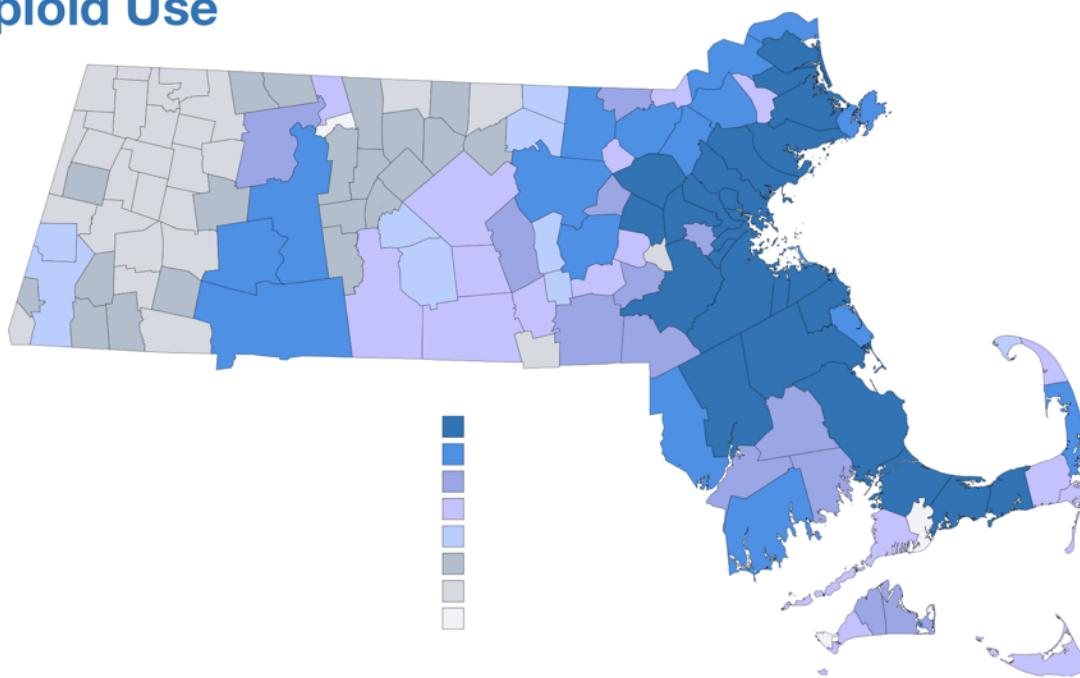
Filters:

Demographic

Condition

Location

Opioid Use



Sign In (select access type)

Provider

1

Patient

2

Researcher

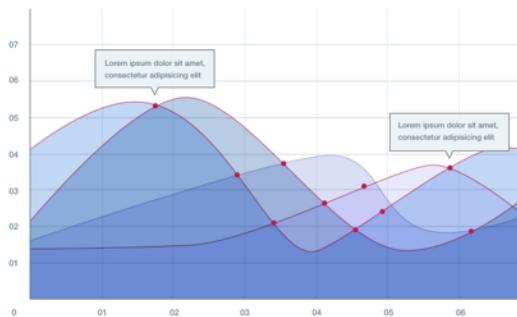
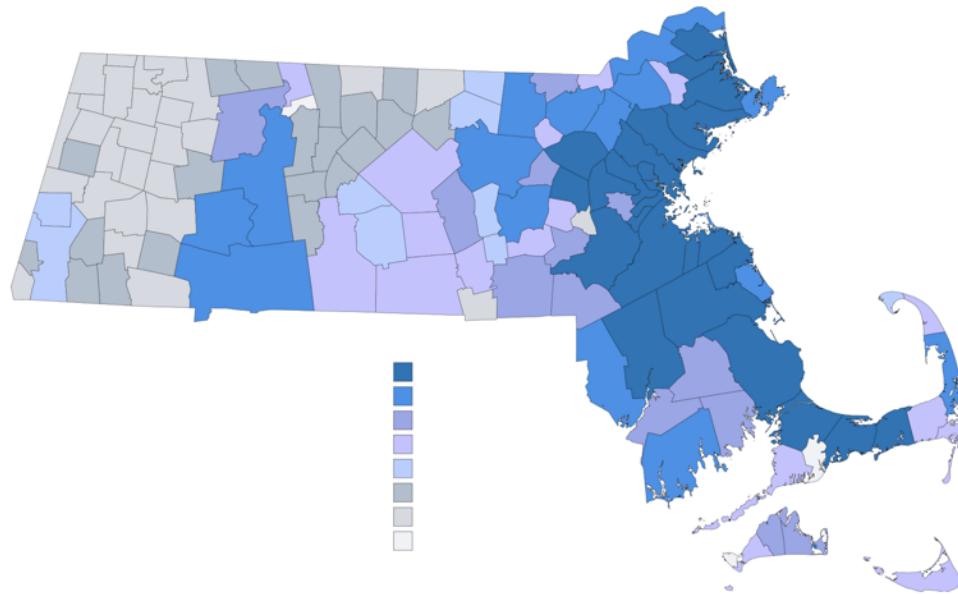
3

LandingPage

Several design concept directions

Build a map:

Demographic : Age group 20-30 Condition : Opioid Use Location : Statewide



Sign In (select access type)

Healthcare Provider

1



Patient

2



Healthcare Researcher

3



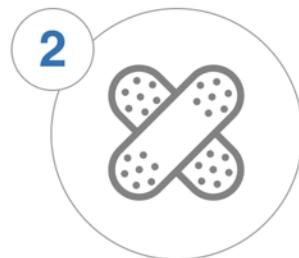
Select user type to sign in:

Provider



Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

Patient



Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

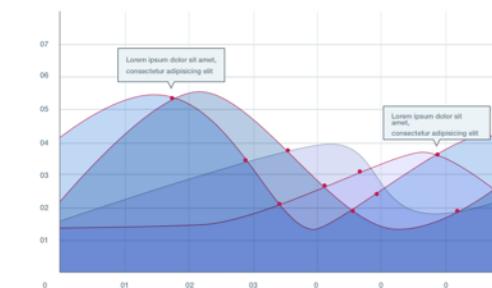
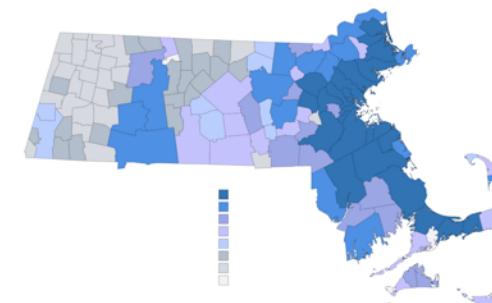
Researcher



Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed luctus accumsan sem, eu varius lorem mattis eget. Maecenas lobortis iaculis augue id egestas. Praesent finibus neque purus, id fringilla justo viverra ut. Aenean fringilla augue nec mauris finibus, eget placerat elit feugiat. Praesent in justo tristique, maximus felis eget, facilisis erat. Nulla dictum, tortor ut convallis interdum, nibh quam dictum enim, ut commodo sem velit non eros. Praesent fermentum cursus leo quis sagittis. Vivamus id magna ultrices, malesuada odio sed, luctus orci.

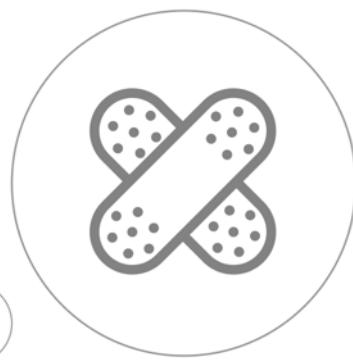
Data Visualization



Welcome, Sign in to explore Synthetic Mass

**1****Provider**

Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

**2****Patient**

Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

**3****Researcher**

Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

Placeholder text for the main content area.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed luctus accumsan sem, eu varius lorem mattis eget. Maecenas lobortis iaculis augue id egestas. Praesent finibus neque purus, id fringilla justo viverra ut. Aenean fringilla augue nec mauris finibus, eget placerat elit feugiat. Praesent in justo tristique, maximus felis eget, facilisis erat. Nulla dictum, tortor ut convallis interdum, nibh quam dictum enim, ut commodo sem velit non eros. Praesent fermentum cursus leo quis sagittis. Vivamus id magna ultrices, malesuada odio sed, luctus orci.

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Duis dignissim, risus in
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Duis dignissim, risus in
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**3****Researcher**

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Duis dignissim, risus in
scelerisque ultrices.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed luctus accumsan sem, eu varius lorem mattis eget. Maecenas lobortis iaculis augue id egestas. Praesent finibus neque purus, id fringilla justo viverra ut. Aenean fringilla augue nec mauris finibus, eget placerat elit feugiat. Praesent in justo tristique, maximus felis eget, facilisis erat. Nulla dictum, tortor ut convallis interdum, nibh quam dictum enim, ut commodo sem velit non eros. Praesent fermentum cursus leo quis sagittis. Vivamus id magna ultrices, malesuada odio sed, luctus orci.

Welcome, Sign in to explore Synthetic Mass

**1**

Provider

Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

**2**

Patient

Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

**3**

Researcher

Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed luctus accumsan sem, eu varius lorem mattis eget. Maecenas lobortis iaculis augue id egestas. Praesent finibus neque purus, id fringilla justo viverra ut. Aenean fringilla augue nec mauris finibus, eget placerat elit feugiat. Praesent in justo tristique, maximus felis eget, facilisis erat. Nulla dictum, tortor ut convallis interdum, nibh quam dictum enim, ut commodo sem velit non eros. Praesent fermentum cursus leo quis sagittis. Vivamus id magna ultrices, malesuada odio sed, luctus orci.

Welcome, Sign in to explore Synthetic Mass

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Duis dignissim, risus in
scelerisque ultrices.

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Duis dignissim, risus in
scelerisque ultrices.

**3****Researcher**

Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed luctus accumsan sem, eu varius lorem mattis eget. Maecenas lobortis iaculis augue id egestas. Praesent finibus neque purus, id fringilla justo viverra ut. Aenean fringilla augue nec mauris finibus, eget placerat elit feugiat. Praesent in justo tristique, maximus felis eget, facilisis erat. Nulla dictum, tortor ut convallis interdum, nibh quam dictum enim, ut commodo sem velit non eros. Praesent fermentum cursus leo quis sagittis. Vivamus id magna ultrices, malesuada odio sed, luctus orci.

Mission Control

Welcome, Sign in to explore Synthetic Mass

**1**

Provider

Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

**2**

Patient

Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

**3**

Researcher

Suspendisse id ipsum nisl.
Duis dignissim, risus in
scelerisque ultrices.

Loreum ipsum dolor sit amet, consectetur adipiscing elit. Sed luctus accumsan sem, eu varius lorem mattis eget. Maecenas lobortis iaculis augue id egestas. Praesent finibus neque purus, id fringilla justo viverra ut. Aenean fringilla augue nec mauris finibus, eget placerat elit feugiat. Praesent in justo tristique, maximus felis eget, facilisis erat. Nulla dictum, tortor ut convallis interdum, nibh quam dictum enim, ut commodo sem velit non eros. Praesent fermentum cursus leo quis sagittis. Vivamus id magna ultrices, malesuada odio sed, luctus orci.

ResearchPath

Design concepts for “Mission Control” and data visualization pages

SyntheticMass initial web development and flow to 2 main functions of the research function.

The landing page features a header with the SyntheticMass logo and links for Home, Mission Control, Dashboard, About, Contact, Create Account, and Log out. Below the header, three circular icons represent different user roles: 1. Provider (stethoscope), 2. Patient (bandage), and 3. Researcher (microscope). Each icon has a brief description below it. A large text area contains placeholder text for the provider role. At the bottom, there is a copyright notice and social media sharing options.

SyntheticMass “landing page” allowing navigation to 3 different users. The focus here is for the research use.

The top screenshot shows the "Mission Control" page with a title "Top health issues in Massachusetts: (Click to explore)". It displays seven maps of Massachusetts, each representing a different health issue: Diabetes, Opiates, Cardiac Disease, Cancer, Zika, Obesity, and Opiates. The bottom screenshot shows the "Build a map" page with a title "Build a map (Select from filters)". It includes a sidebar with demographic filters (Age, Birth Sex, Ethnicity, Income, Relationship, Employment, Veteran Status) and a main area for creating custom maps. A preview map for "Population Density" is shown on the right.

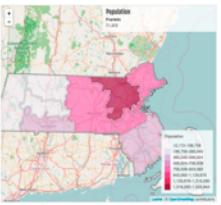
“Mission Control” gives the user a “current state” of the state regarding the health issues in the commonwealth. The user can click on a map to “explore”.

“Build a Map” page allows the user to see the profiles from the top health issues or create custom data visualizations using various filters.

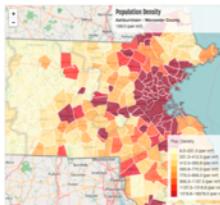
Mission Control

Home / Mission Control

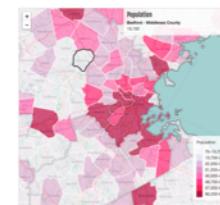
Top health issues:



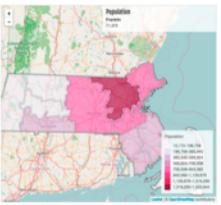
Diabetes



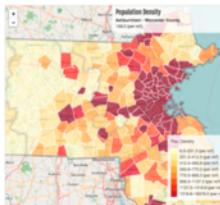
Cancer



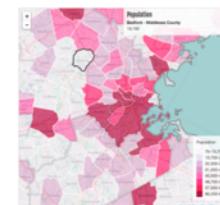
Zika



Tuberculosis



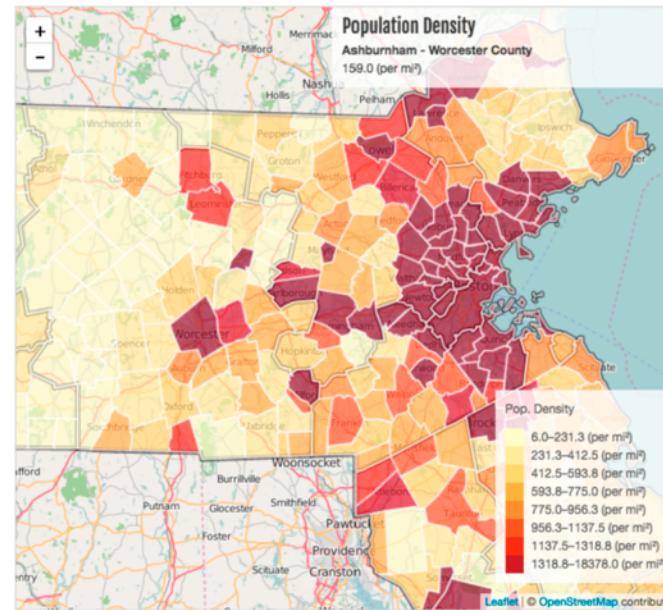
Chicken Pox



Opiates

Build a map:

[Take me there!](#)



Population Density

Number of residents per sq. mile

Region Minor Civil Division

Type

Data Set Computed from Census ACS Data

Median 547.0 (per sq./mi.)

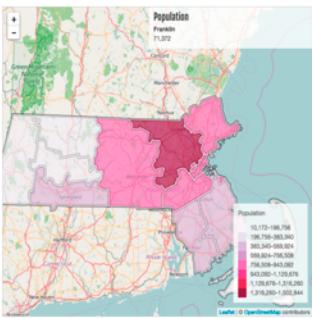
Max Somerville Minor Civil Division: 183780.0 (per sq./mi.)

Min Gosnold Minor Civil Division: 6.0 (per sq./mi.)

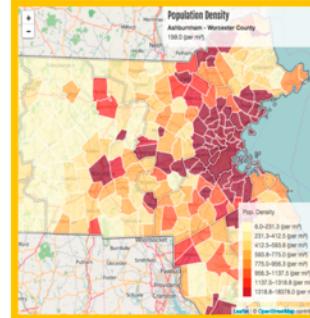
Mission Control

Home / Mission Control

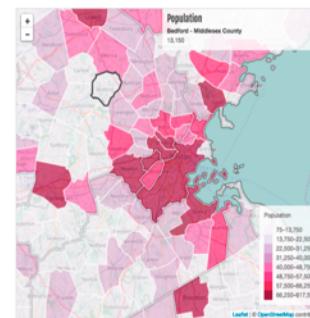
Top health issues in Massachusetts: (Click to explore)



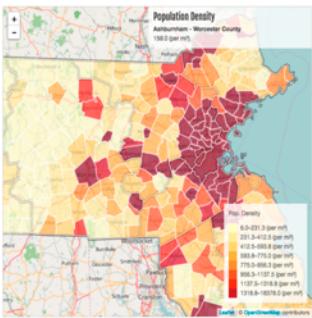
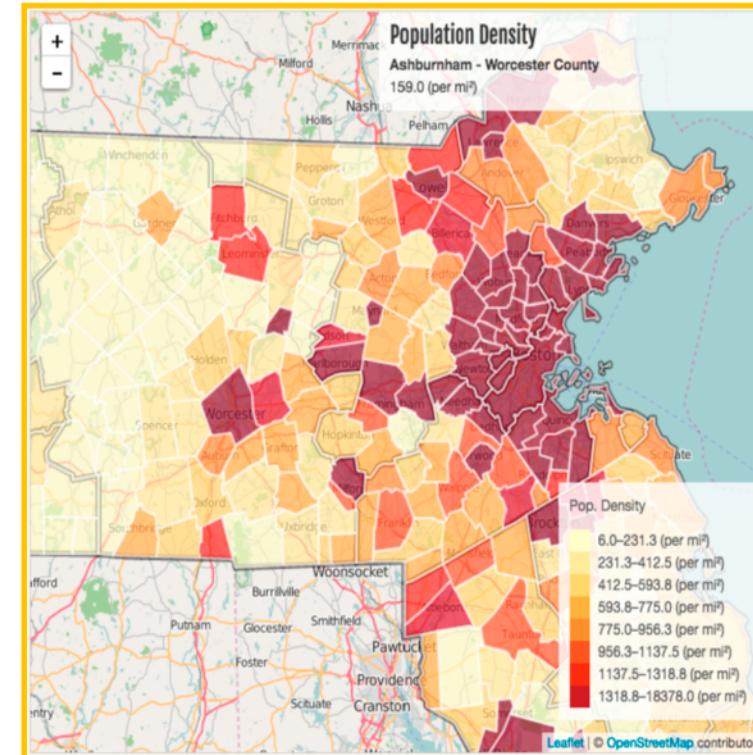
Diabetes



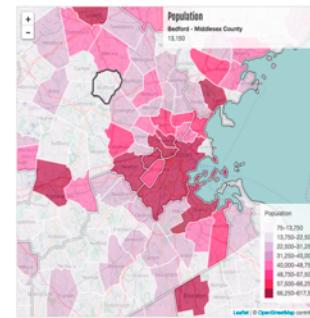
Opiates



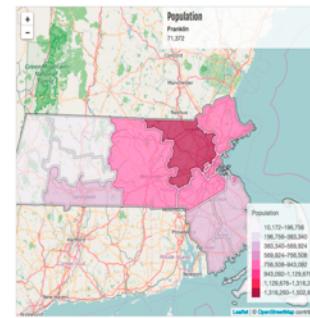
Cardiac Disease



Cancer



Zika

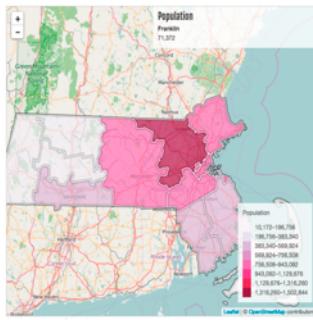


Obesity

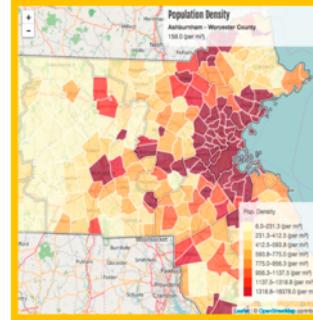
Mission Control

Home / Mission Control

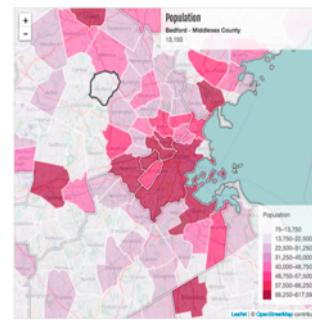
Top health issues in Massachusetts: (Click to explore)



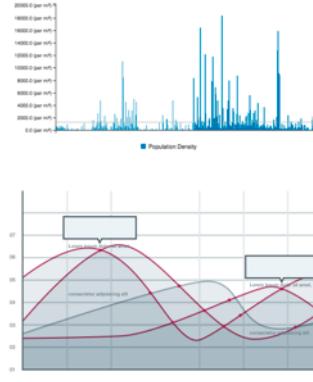
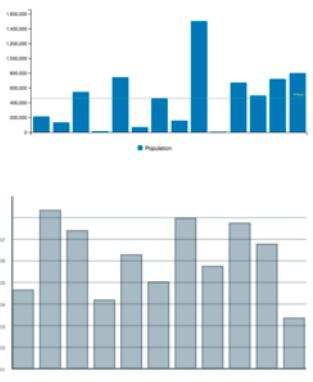
Diabetes



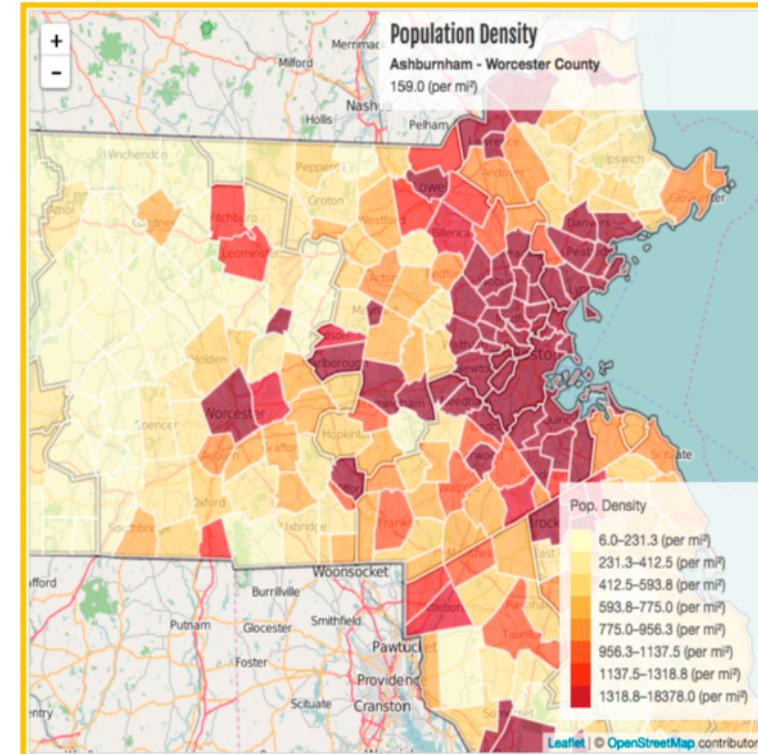
Opiates



Cancer



Opiates



Build a map (Select from filters)

Demographics:

Age group 20-30
Birth sex Female
Ethnicity Pacif. Islander
Income range 60-85K
Relationship status Single
Employment Part-time
Veteran status None

Condition:

Condition 1 Hypothyroid
Add condition Sign in

Medication:

Medication 1 Armthyroid
Medication 2 None
Add medication

Provider:

Provider 1 Dr. Vasilakis
Add provider

Date Range:

Select start date Sept. 2015
Select end date May 2016

Location:

City/town Newton
County Middlesex

RESET**BUILD**

Population Density

Number of residents per sq. mile

Region Minor Civil Division

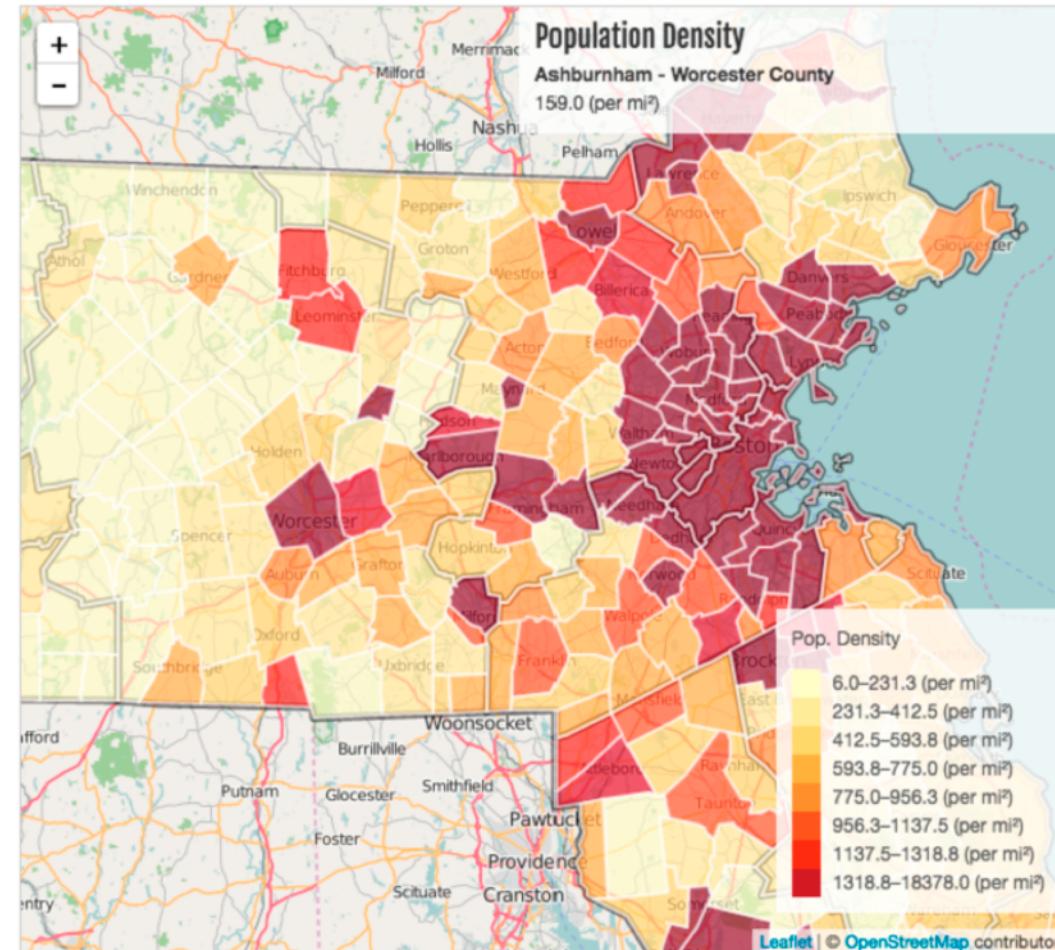
Type

Data Set Computed from Census ACS Data

Median 547.0 (per sq./mi.)

Max Somerville Minor Civil Division:
183780.0 (per sq./mi.)

Min Gosnold Minor Civil Division:
6.0 (per sq./mi.)



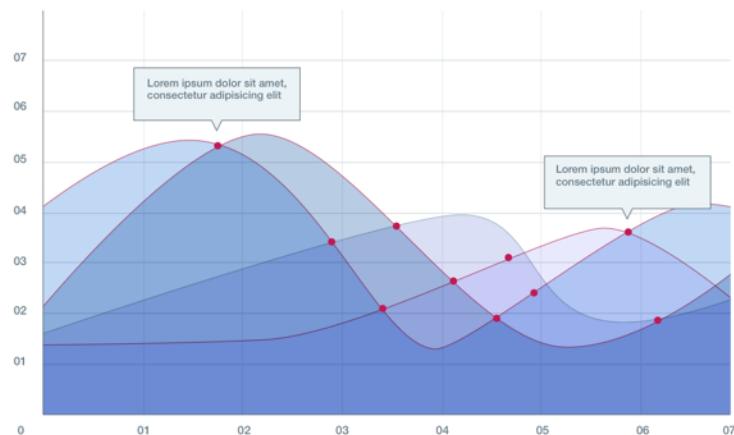
Build a map (Select from filters)

Filters:

Demographics	20-30
Condition	Hypothyroid
Medication	Armthyroid
Provider	Dr. Vasilakis
Date Range	Sept. 2015
Location	Newton

RESET

BUILD



Population Density

Number of residents per sq. mile

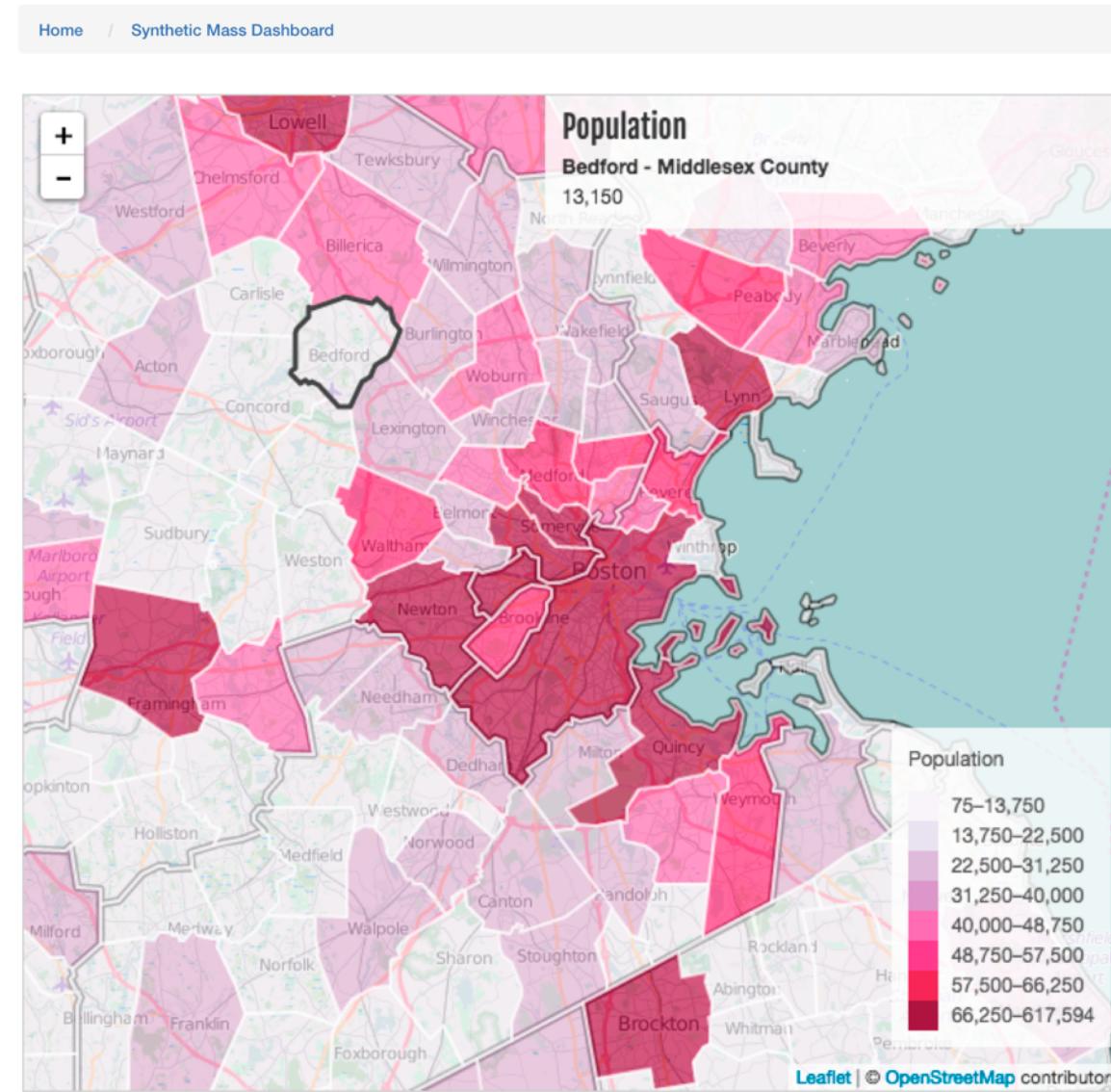
Region Minor Civil Division

Type

Data Set US Census Demographic Profile (DP1) Data

Max Boston Minor Civil Division
617,594

Min Gosnold Minor Civil Division: 7



Build a map (Select from filters)

[Home](#) / Synthetic Mass Dashboard

Filters:

[Demographics](#) [Condition](#) [Medication](#) [Provider](#) [Date](#) [Location](#)

Age: Full-time Part-time
 Retired None

[RESET](#) [BUILD](#)

Birth Sex: Male Female

[SAVE](#)

Ethnicity: [Pacific Islander](#)

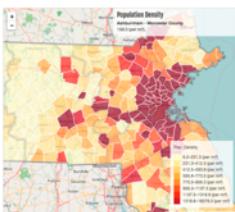
Income: \$0-25 \$25-50K \$75-100K
 \$100-125K \$125-150K \$150-175+

Relationship: Married Single

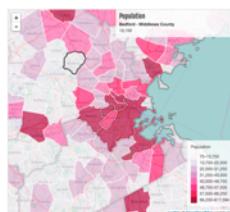
Employment: Full-time Part-time
 Retired None

Veteran Status: Veteran Non-Veteran

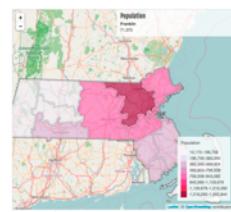
Saved Visualizations:



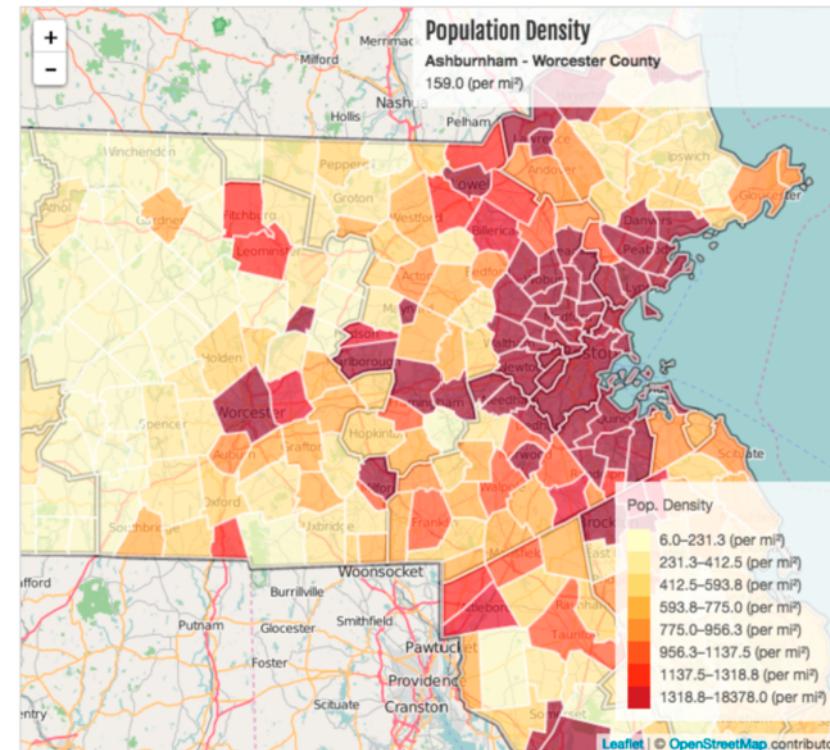
Diabetes by town



Cancer deaths by population



Drug overdose by county



Population Density

Number of residents per sq. mile

Region Minor Civil Division

Type

Data Set Computed from Census ACS Data

Median 547.0 (per sq./mi.)

Max Somerville Minor Civil Division: 183780.0 (per sq./mi.)

Min Gosnold Minor Civil Division: 6.0 (per sq./mi.)

Researcher Branch

Landing page

- Mission Control
- Maps

Filters

- Demographics
 - Age, sex, ethnicity, income, relationship status, employment, veteran status(Census Data)
- Condition
- Medication
- Provider
- Date
- Location
 - City/town
 - County
- Features
 - List of patients
 - View statistics
 - Save a query

Site

- About
 - API
 - (FHIR, DIRECT, C-CDA, SFTP)
 - Data
 - 7MM patients
- Admin
 - Google Analytics
 - User admin
 - API Statistics

Mass Challenge

Needs:

- Data set
- Log in
- Expose & document & data
- Service and data documentation
- Perform pop query on synth patients