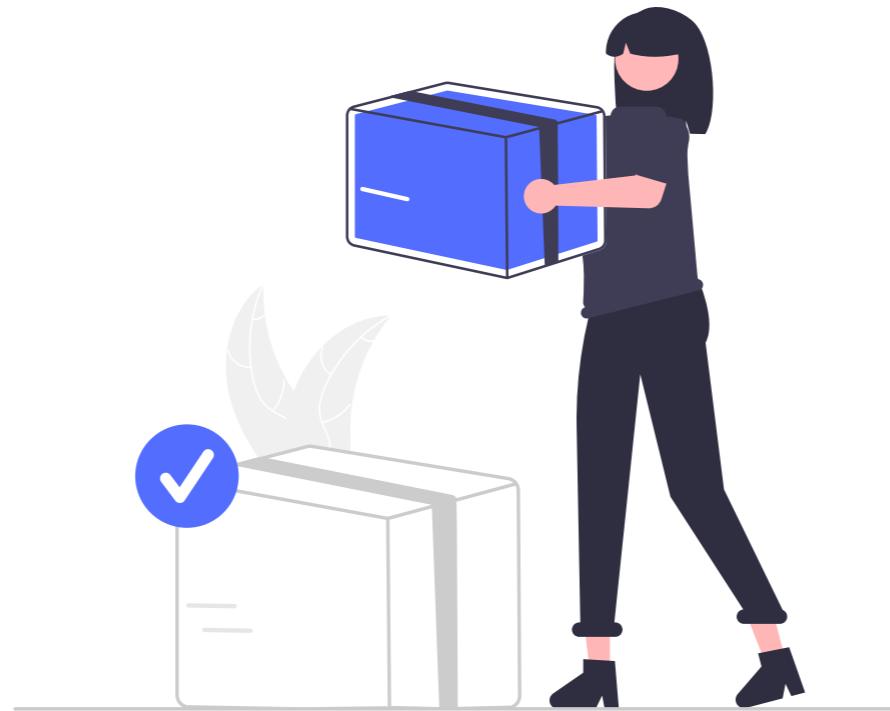


Supplify

Supply Chain Chokepoint Visualization Tool



Minh Vu, Lorenzo Suarez, Dhruv Gramopadhye

Improving Data Transparency



Supply Chain Data is Opaque and
difficult to discuss

Problem: Data Transparency

HUB UNIQUE ID	HUB ADDRESS	HUB ZIPCODE	HUB STATE	NUMBER OF TESTS PRODUCED	NUMBER OF TESTS DISTRIBUTED	CURRENT TEST SURPLUS
0	904 Walthour Road	31410	GA	87	65	22
1	1311 Elm Hill Pike	37210	TN	9	5	4
2	7998 Chase Circle	80003	CO	37	12	25
3	201 East 16th Avenue	99501	AK	45	25	20
4	4900 Cambridge Way	99503	AK	54	36	18
5	4341 Ponds Street Northeast	20019	DC	13	1	12
6	2337 Nebraska Avenue	93662	CA	79	34	45
7	37608 2nd Street	94536	CA	46	39	7
8	238 La Salle Avenue	94610	CA	97	61	36
9	104 Lakeridge Drive	32405	FL	19	11	8
10	1630 Eton Way	21114	MD	34	11	23
11	4981 Shirley Way	94550	CA	22	3	19
12	6823 Forsythe Drive	32404	FL	83	27	56
13	1007 Ash Street	40217	KY	96	3	93
14	5385 Iris Street	80002	CO	78	12	66
15	9805 South Youngs Lane	73159	OK	7	1	6
16	9008 Grayson Grove Court	36117	AL	8	5	3
17	8391 West 52nd Avenue	80002	CO	35	4	31
18	74 Bradford Road	2472	MA	22	13	9
19	814 South Pickard Avenue	73069	OK	14	11	3
20	4712 Rock Creek Road	73401	OK	45	21	24
21	8349 West Stella Way	85305	AZ	8	3	5
22	1613 Katrina Circle	99508	AK	50	6	44
23	4444 Hansen Avenue	94536	CA	7	3	4

Challenge: Visualization



We were tasked to develop a visualization that would reveal supply chain issues hidden in the data



Damian Moo

Supply Chain Student

Key Points

Supply Chain Operations & Structure

Modern Supply Chain Challenges

Chain Quality, Logistics, and Failures



Ashith Uchil

Supply Chain Executive

Key Points

Supply Chain Stress Indicators

Post-Digitization Supply Chains

Sensor and Data -driven Logistics

Plotly

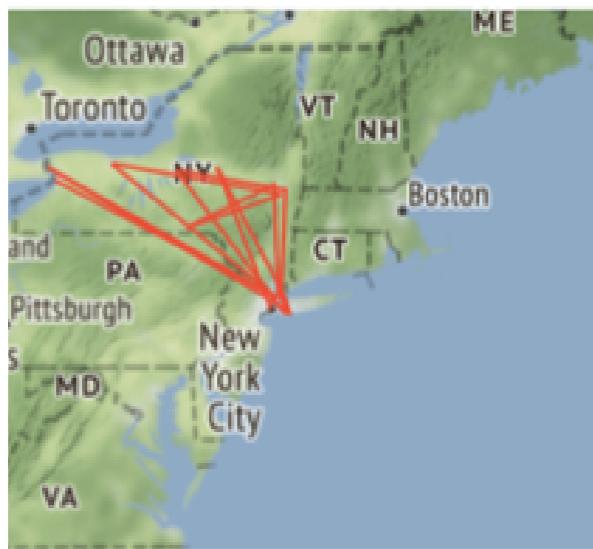
vs

GMaps

Python Interface

Vertice & Edge Labels

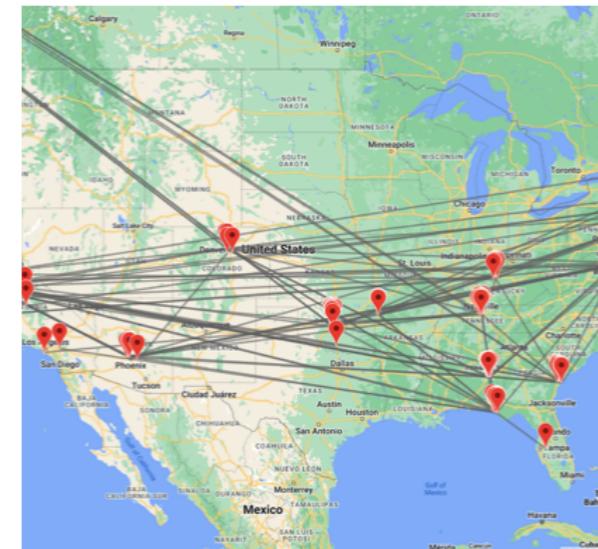
No API Setup*



Python Interface

No Vertice & Edge Labels

Google API Keys



* For low-volume deployments, there is no API Setup required for Mapbox, which plotly seems to use

Accomplishments

At a glance

UI Prototyping



API Selection



Identify Relevant Data



Fake data for testing



Connecting co-ordinates



Contextualize Visualization
with Other Fields



Ingest dataset



Plot suppliers & consumers



Completed Product

Supply Chain Visualizer

