



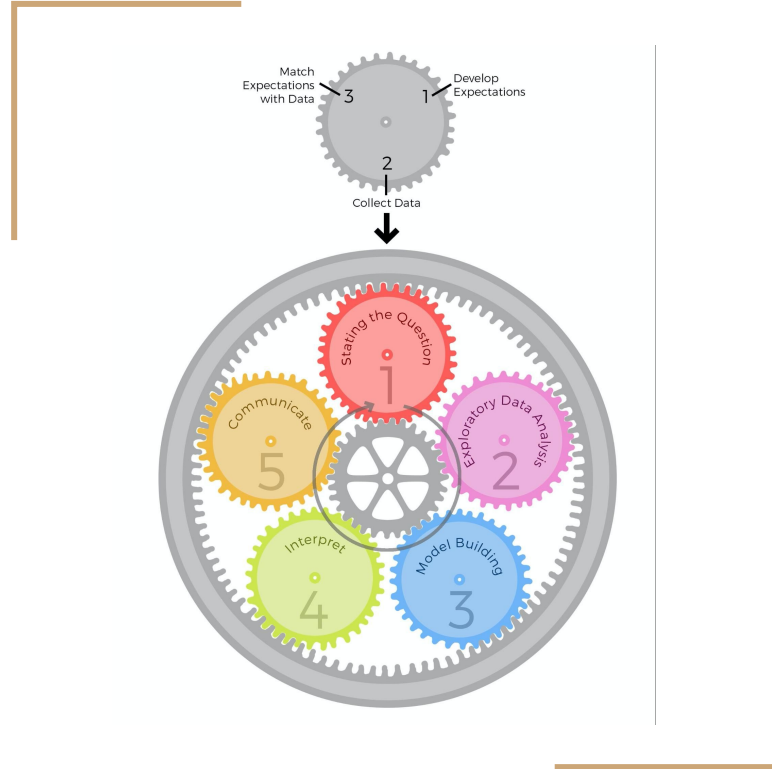
**H1B
Visa**



Project I: H1B Visa

Spencer Stucky, Cheng Zeng,
Wenyu Zeng, Chao Zhou

10.22.2019

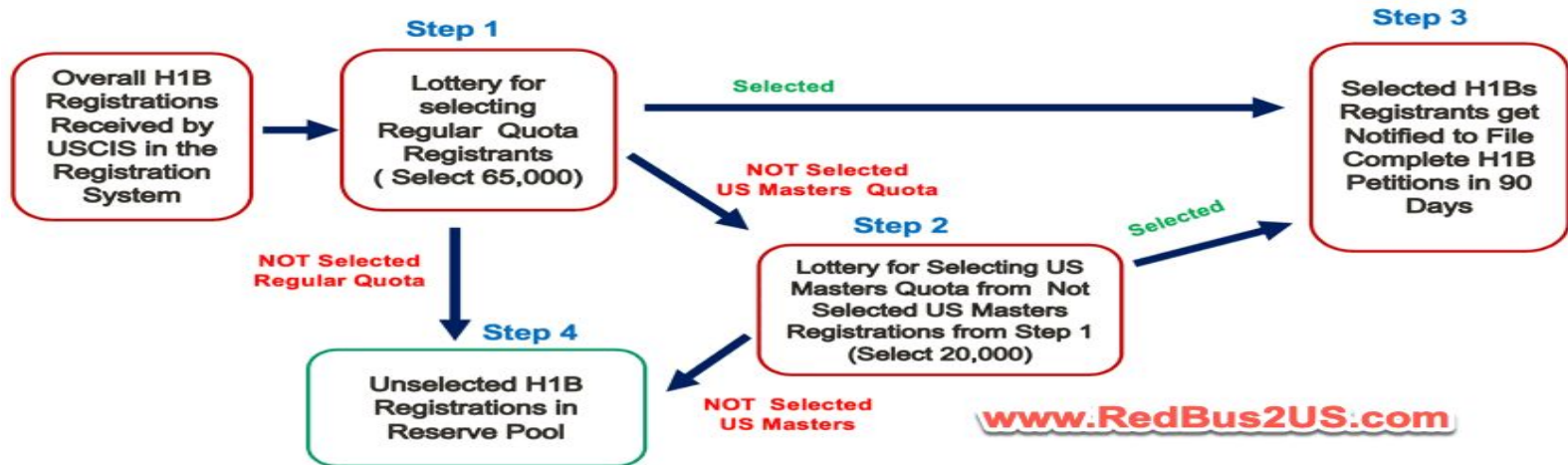


Overview

- What key factors affect approval rate of H1B visa
 - Introduction of H1B visa
 - Data Summary
 - Data Interpretation
 - Communication
-

Introduction of H1B Visa

- Visa for Temporary (Nonimmigrant) workers
- About 20 different types of temporary worker visa
- Average of half a 1,000,000 petitions for foreign workers each year
- 190,098 petitions for H1B visa in 2019
- 65,000 Regular cap and 20,000 Master's cap



Data Summary

- Where we get it:

USCIS stands for U.S. Citizenship and Immigration Services

- What this data is about:

CSV file, row, column, we will take a look together

- How we clean it:

Although it is csv file, we still need to dig into the data to clean it

	Fiscal.Year <fctr>	Employer <fctr>	Initial.Approvals <int>	Initial.Denials <int>	Continuing.Approvals <int>	Continuing.Denials <int>	NAICS <fctr>	State <fctr>
1	2009	GREEN HOME INVESTMENT CORP	1	0	0	0	53	FL
2	2009	MEENAKSHI CORPORATION	3	0	1	0	54	NJ
3	2009	AVN TRADING COMPANY INC	0	0	1	0	99	NJ
4	2009	F & D ACADEMY INC DBA KUMON	1	0	0	0	61	NY
5	2009	ADVANCED INTL FREIGHT INC	1	0	0	0	48	NJ
6	2009	INTL INFO TEC TEAM INC	0	0	4	0	54	NJ

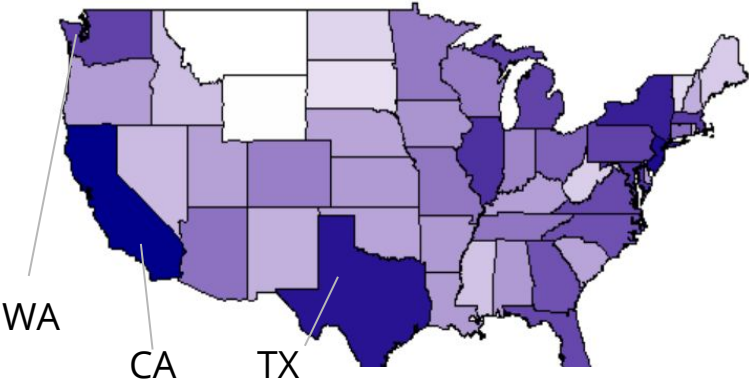
Questions:

- How is approval rate associated with location of employer?
- How is approval rate associated with Industry(NAICS)?
- How is approval rate associated with Fiscal.Year?

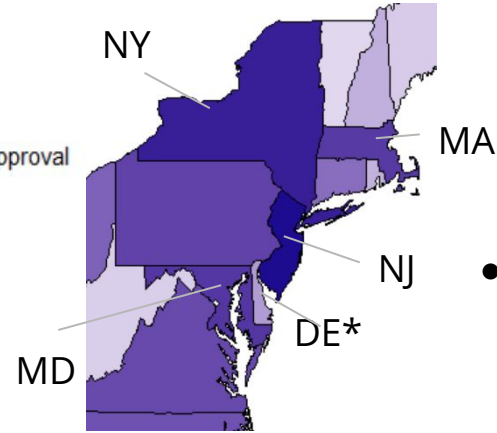
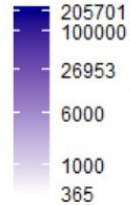
Location

Factor I - Location Vs. Initial Approvals

Map of Numbers of Initial Approvals in Each State

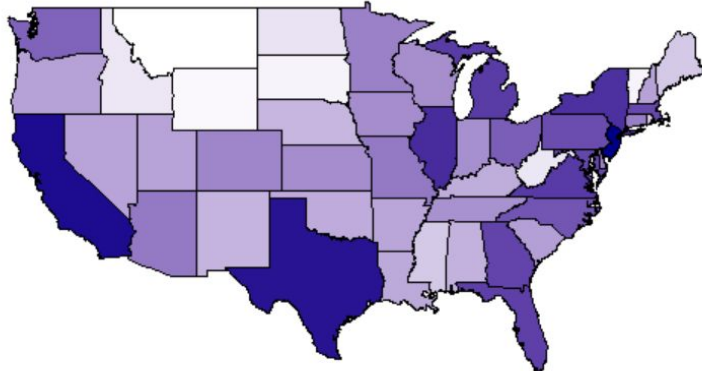


Numbers of Initial Approval

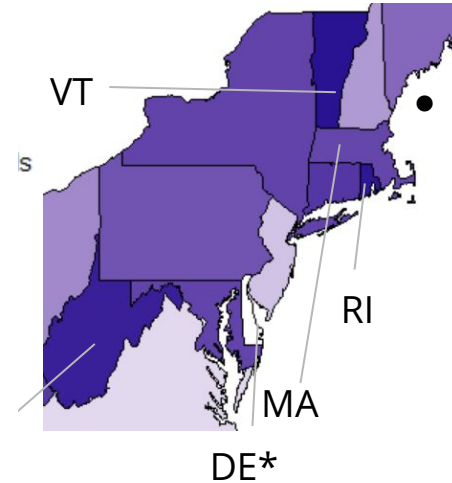
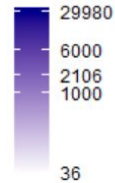


- CA, NJ, TX, NY and IL are the top five states that have large number of initial approvals

Map of Numbers of Initial Denials in Each State



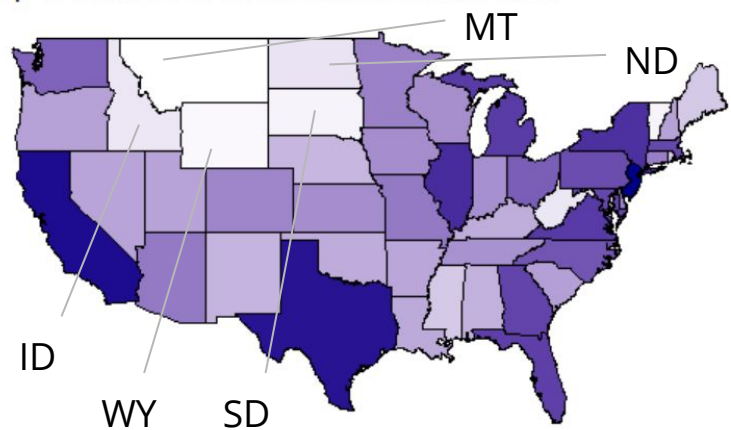
Number of Initial Denial



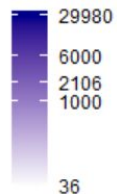
- ID, VT, WA, RI and TN are the top five states that have high percentage rate

Factor I - Location Vs. Initial Denials

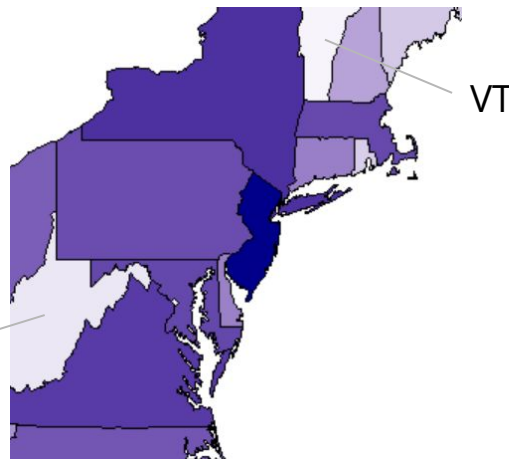
Map of Numbers of Initial Denials in Each State



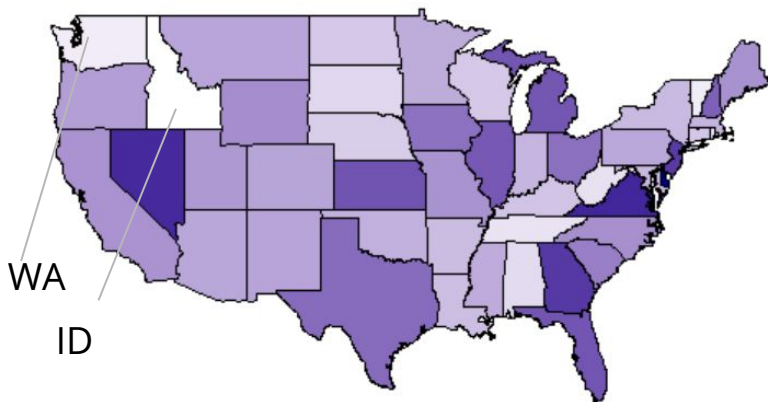
Number of Initial Denial



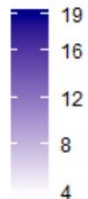
WV



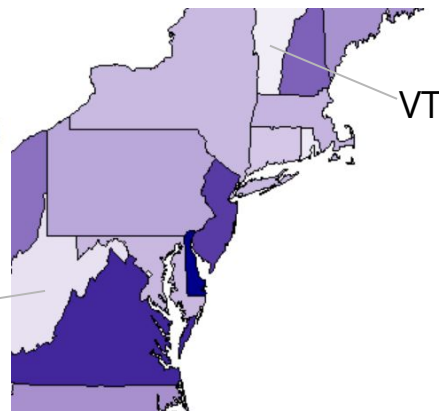
Map of Percentage of Initial Denials in Each State



Percentage of Initial Denial

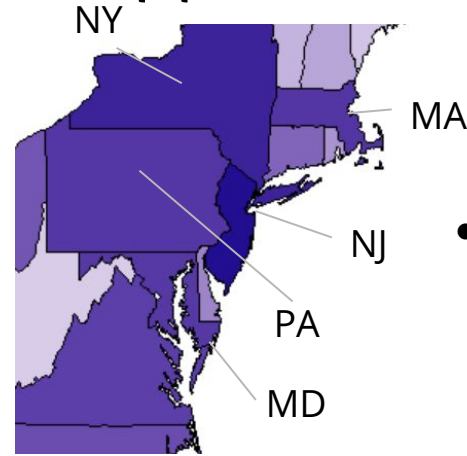
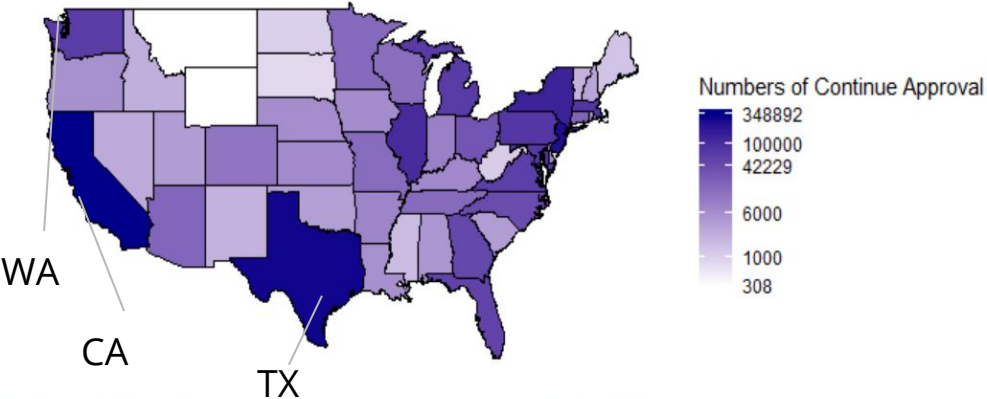


WV



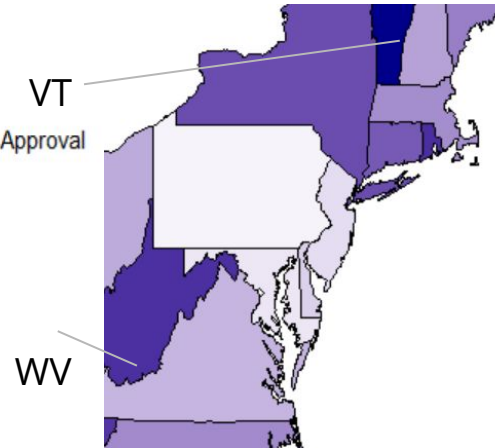
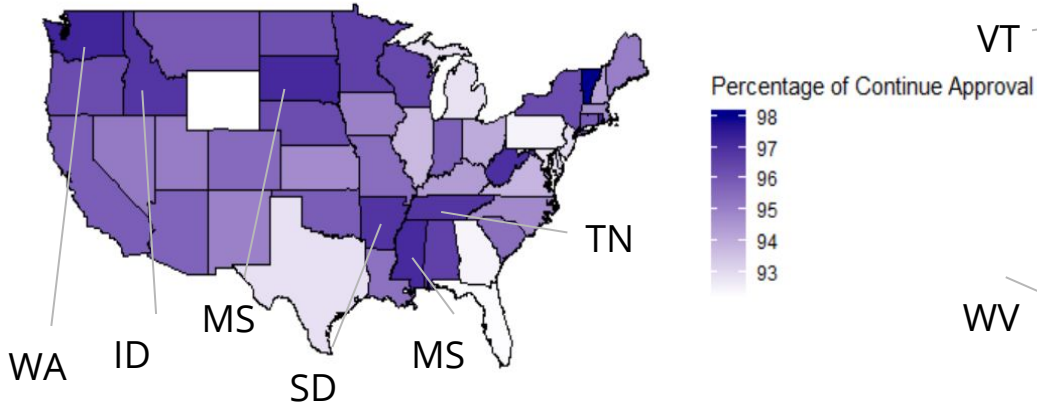
Factor I - Location Vs. Continue Approvals

Map of Numbers of Continue Approvals in Each State



- CA, NJ, TX, NY and IL are the top five states that have large number of continue approvals

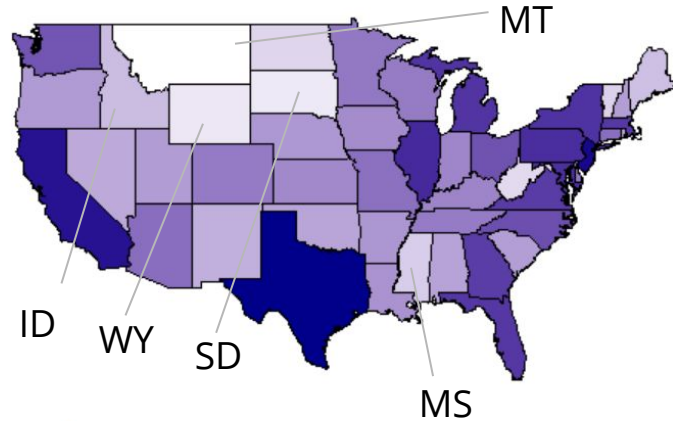
Map of Percentage of Continue Approvals in Each State



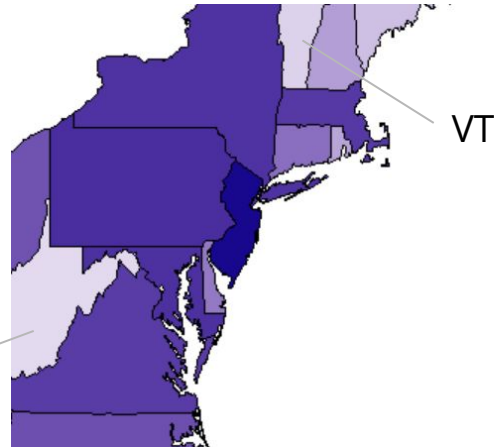
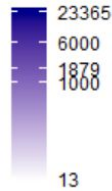
- VT, WA, SD, MS and RI are the top five states that have high percentage rate

Factor I - Location Vs. Continue Denials

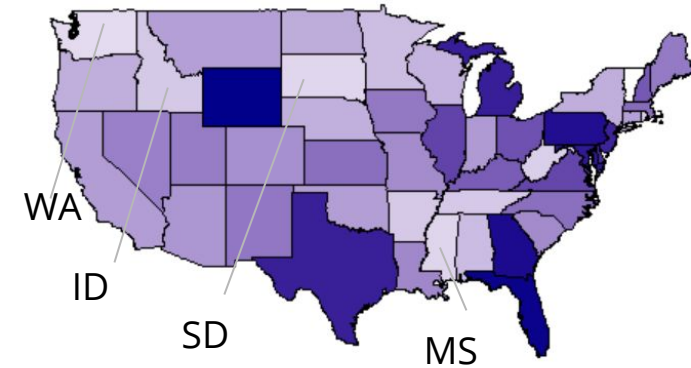
Map of Numbers of Continue Denials in Each State



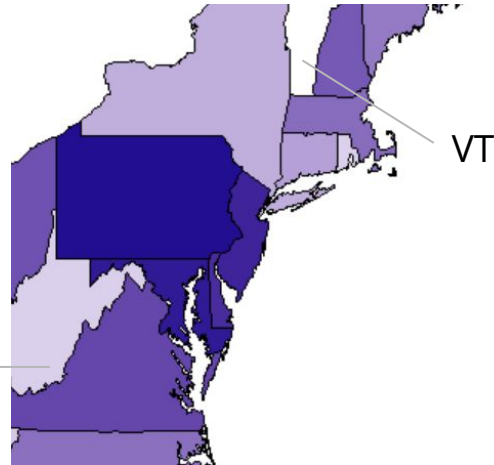
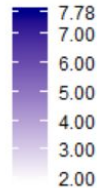
Numbers of continue denial



Map of Percentage of Continue Denials in Each State

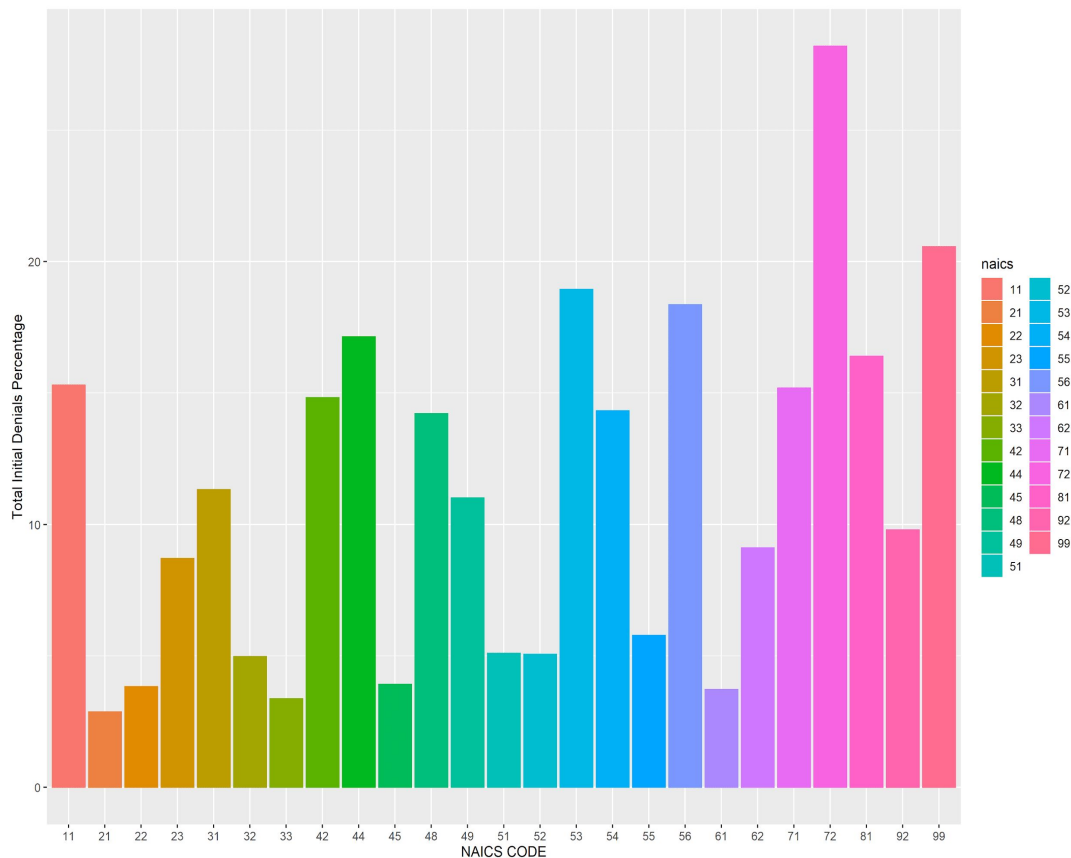


Percentage of continue denial



Industry

Factor II - Industry



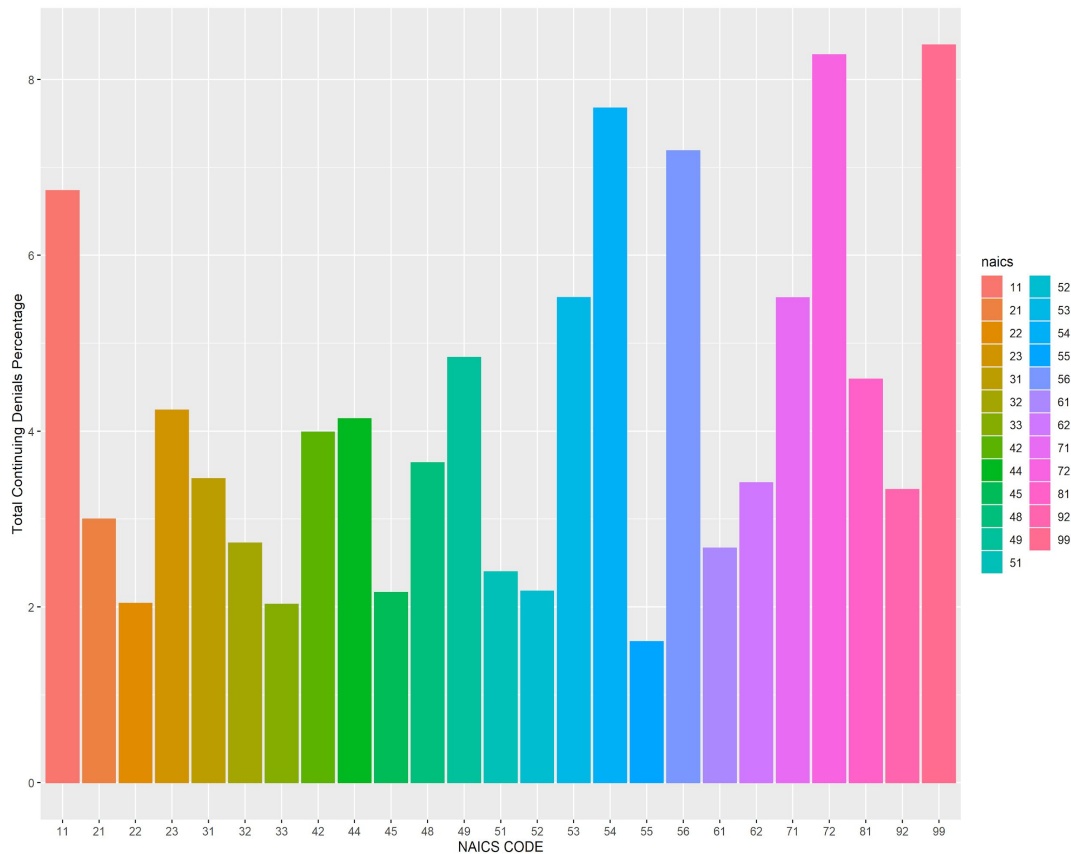
Industries vs NAICS

Total Initial Denial Percentage

- 21(Mining):
 - Mining industry employees are in demand
 - Skilled-labor shortage
- 72(Accommodation and Food Services):
 - Small Business (Low end job position)
 - Temporary Non-agricultural Worker Visa (H-2B)

Factor II - Industry (Continue)

Industries vs NAICS



Total Continuing Denial Percentage

- 55(Management of Companies and Enterprises):
 - Eight major investment banks increased high-skilled workers by almost 60% over 5 years
 - Hard to fill with U.S workers
- 99(Nonclassifiable Establishments):
 - Industry is unknown. Any petition that had a blank code was assigned as 99 as well.

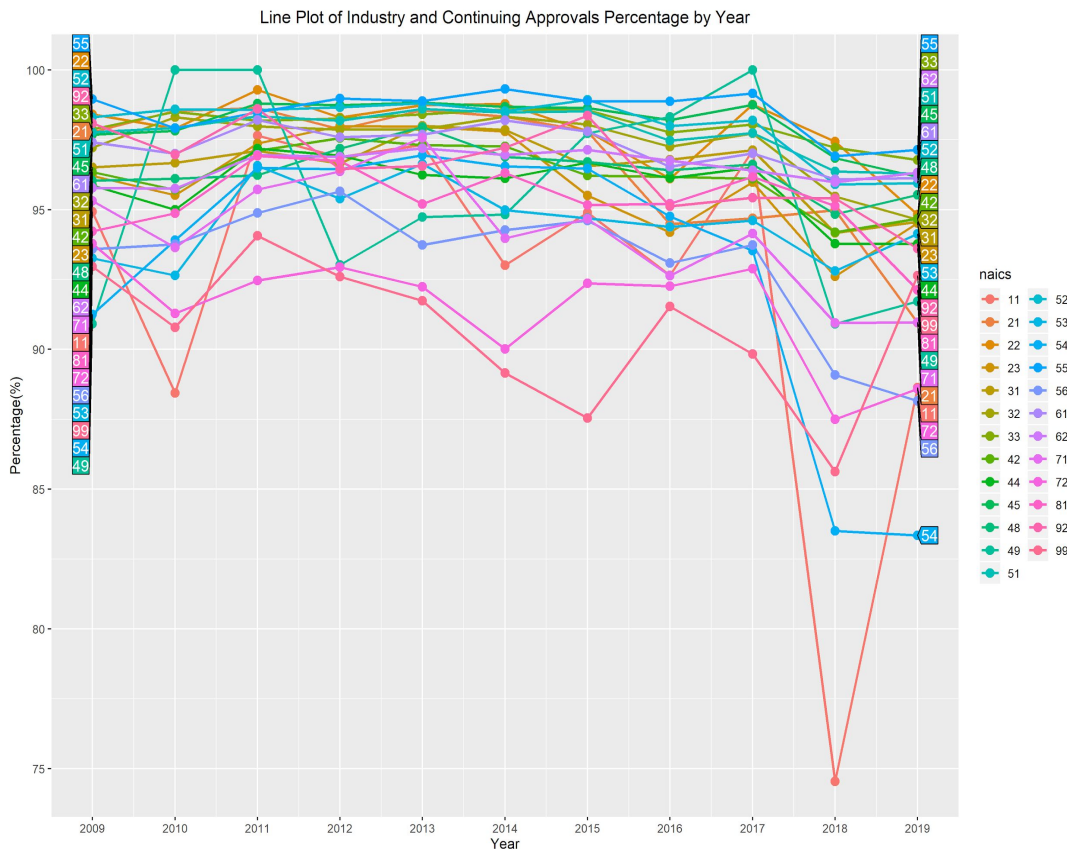
Industries vs NAICS by Year

Total Initial Approval Percentage



- 2010(increase 15.68%):
 - IT industry growth after recession.
- 2018(decrease 29.37%):
 - Become “sensitive” subject
 - Increase numbers of applicants
 - Cost and paperwork increase due to the policy.

Factor II - Industry (Continue)



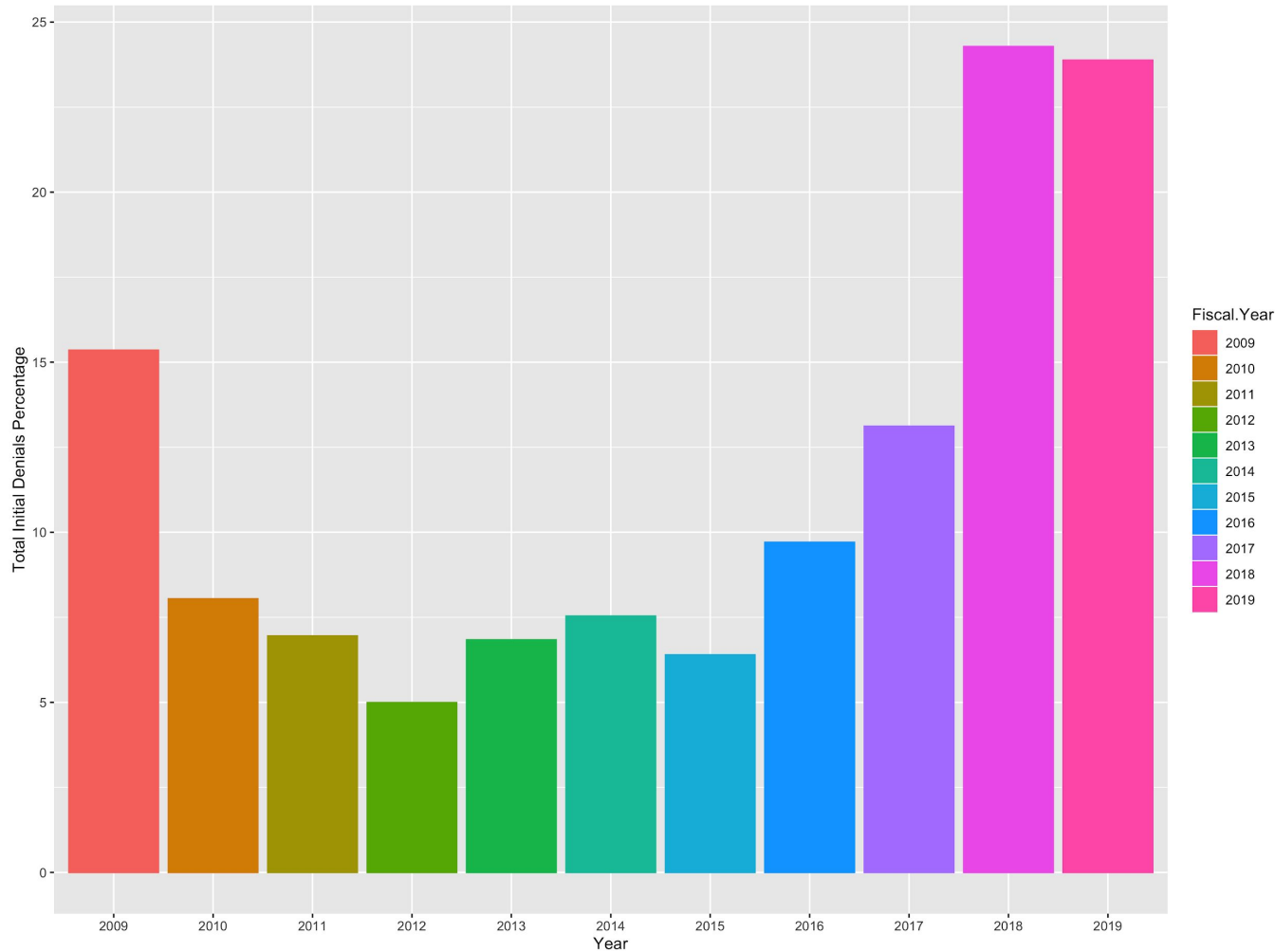
Industries vs NAICS by Year

Total Continuing Approval Percentage

- 11(Agriculture, Forestry, Fishing and Hunting):
 - Donald Trump's executive order
 - Shift to Temporary Non-Agricultural Workers (H-2A)



Factor III: Year (& Policy)



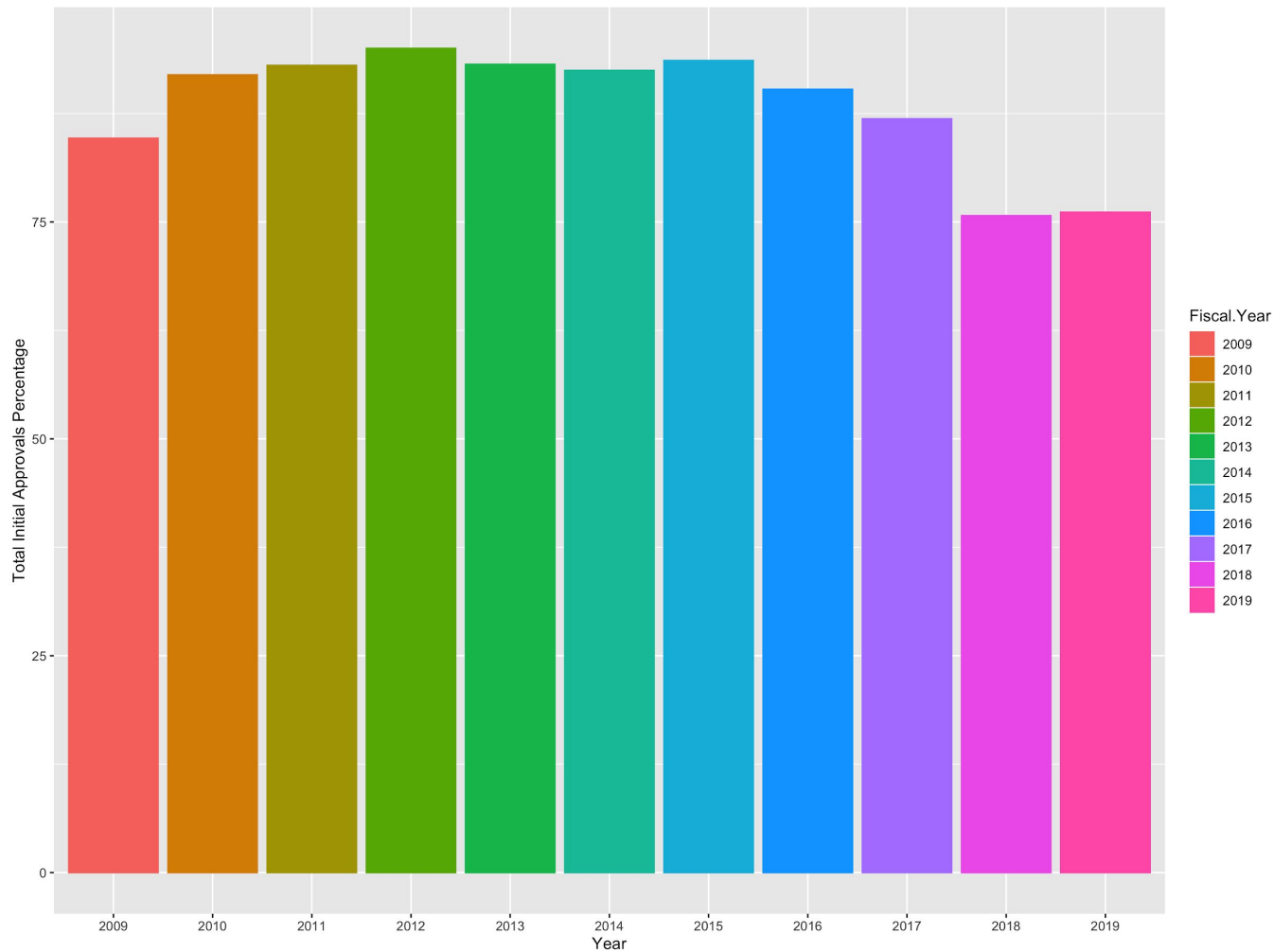
Year & Total Initial Denial Percentage

2012 to 2018:

- Increased from 5% to 24%

2015 to 2019:

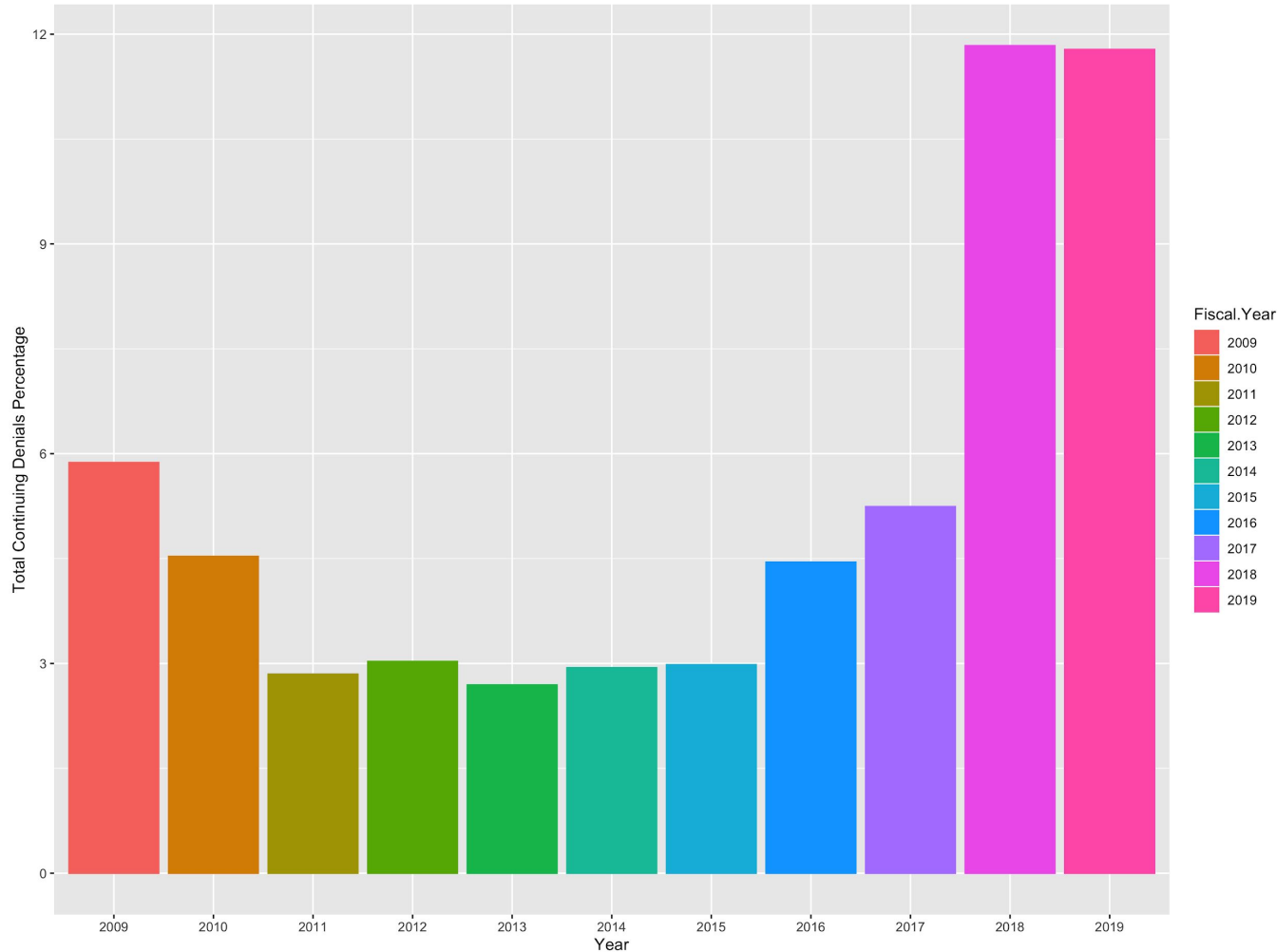
- Increase from 7% to 23%



Year & Initial Approvals

2017-2019:

- 87% approval down to 75% approval



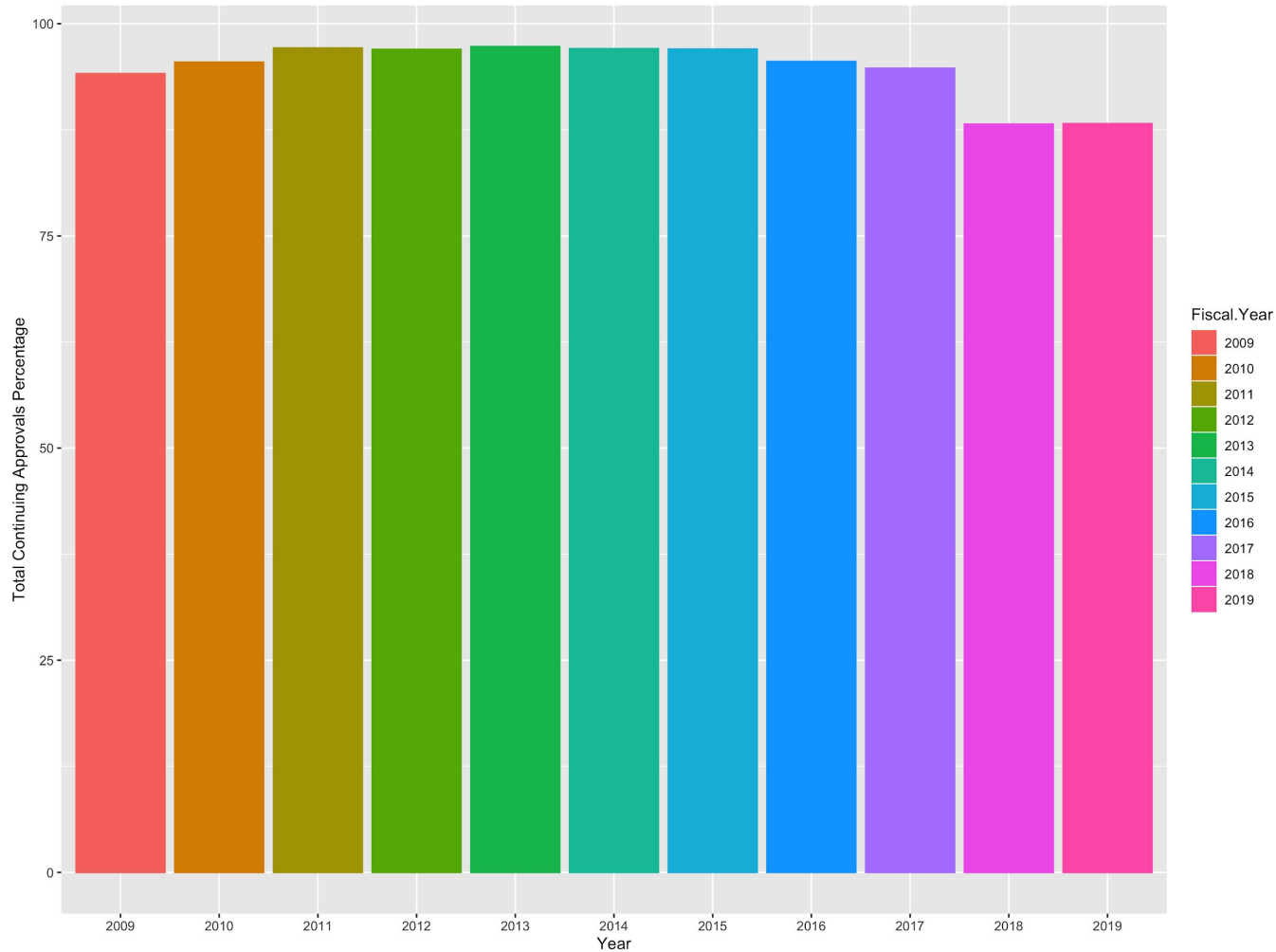
Year & Total Continuing Denial Percentage

2009 - 2019:

- Increased from 6% to ~12%

2013 - 2018:

- Increase from <3% to ~12%



Year & Continuing Approval

2017 - 2019:

- 93% approval down to 87% approval

Policy

- Between FY 2010 and FY 2015, denial rate never went over 8%
 - From 2015 to 2019, initial denial tripled from 7% to 23%
 - From 2015 to 2019, continuing denial quadrupled from 3% to 12%
- Why?
 - US Citizenship and Immigration Services policies and procedures
 - They have raised the “standard of proof” for accepting H1b visas
 - The “Buy American and Hire American” executive order
 - Began in April 2017
 - “merit-based” immigration instead of “skill-based”
 - Has affected industry, cities/states labor force, and total foreign labor in US job market

Next steps

- **NAICS vs Location**
- ...

*Thank
you!*

**ANY
QUESTIONS**

