

### The New England Economy and the Challenges Facing New Hampshire

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Investments to Sustain a Vibrant Economy New Hampshire Fiscal Policy Institute 6<sup>th</sup> Annual Conference

Disclaimer: The views expressed here are those of the speaker and do not necessarily represent the views of the Federal Reserve Bank of Boston or the Federal Reserve System.



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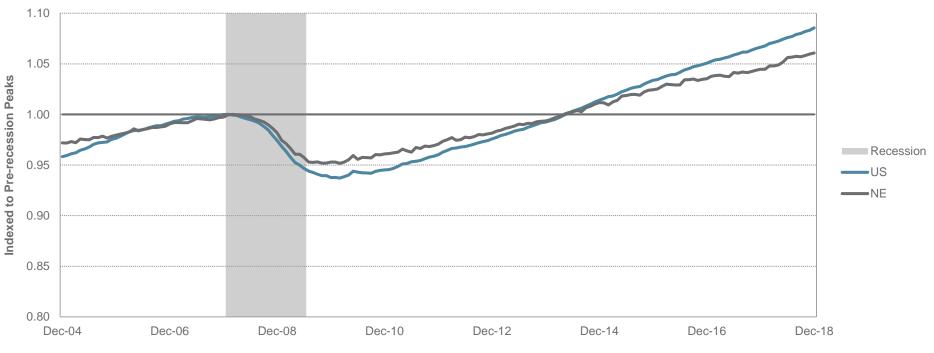
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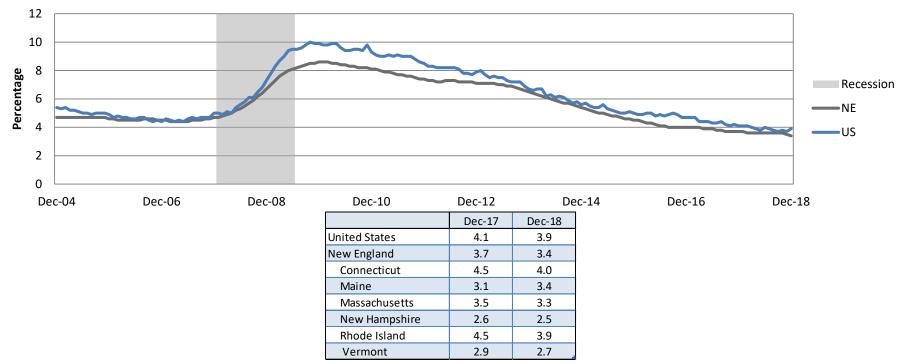
### Rapid Expansion for US and New England

### Non-Agricultural Employment



Source: Bureau of Labor Statistics, NBER, Haver Analytics

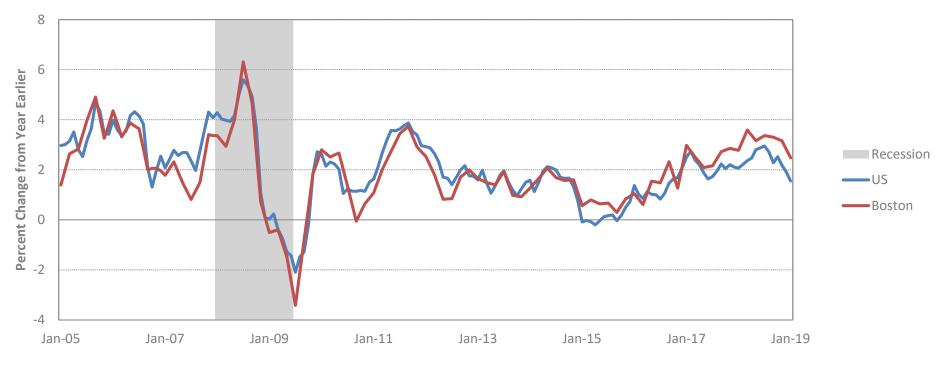
### **Unemployment Rates**



Source: Bureau of Labor Statistics, NBER, Haver Analytics

### Finally Generating Wage/Price Pressures

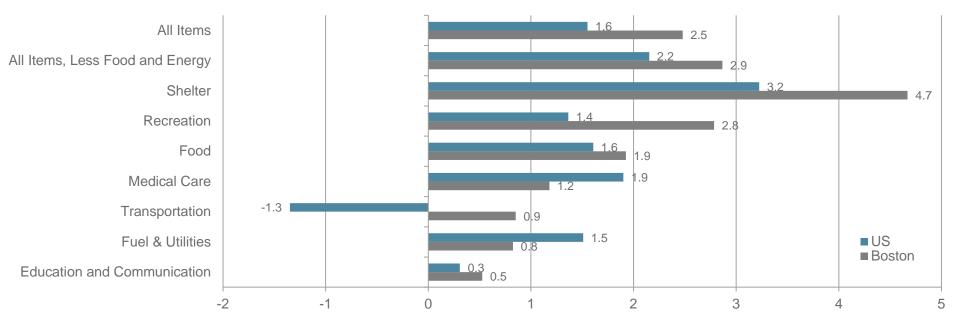
### **Consumer Price Index**



Source: Bureau of Labor Statistics, NBER, Haver Analytics

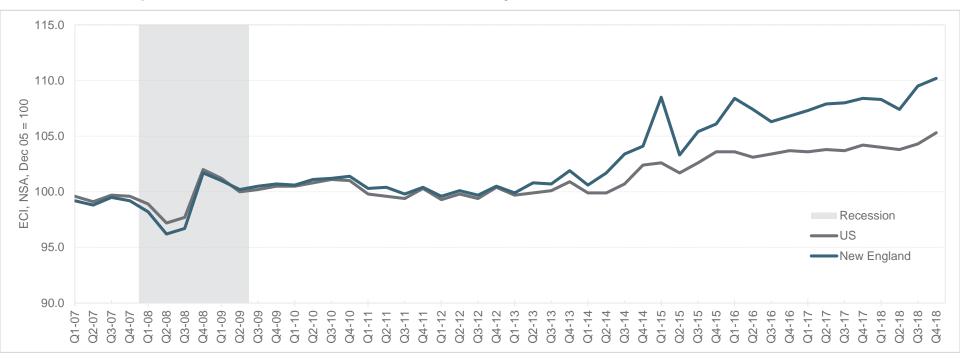
### Components of the Consumer Price Index

Percent Change, January 2018 - January 2019



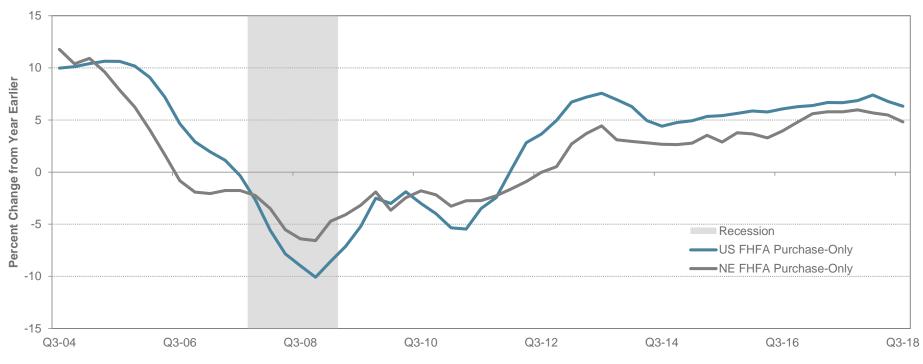
Source: Bureau of Labor Statistics, Haver Analytics

### **Compensation: Private Industry Workers**



Source: Bureau of Economic Analysis, Haver Analytics

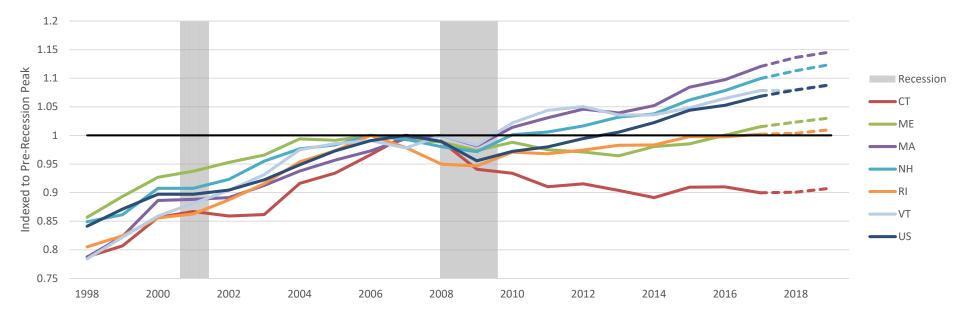
### **Repeat-Sales Home Price Index**



Source: FHFA, NBER, S&P/Case-Shiller, Haver Analytics

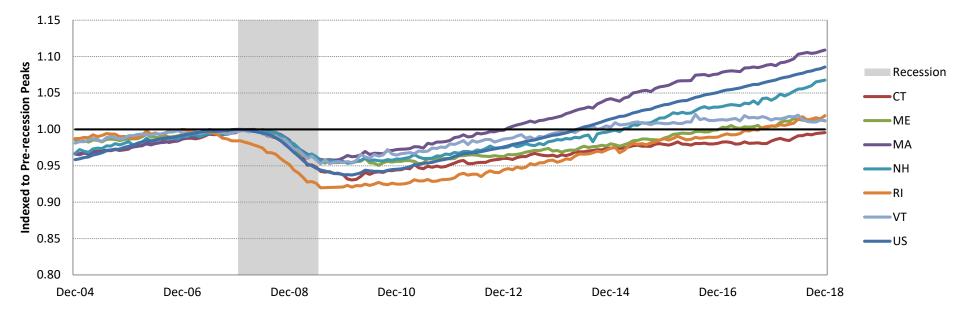
## Substantial Variation in the Extent of Recovery Across States/Regions/Groups

### **Real GDP Per Capita**



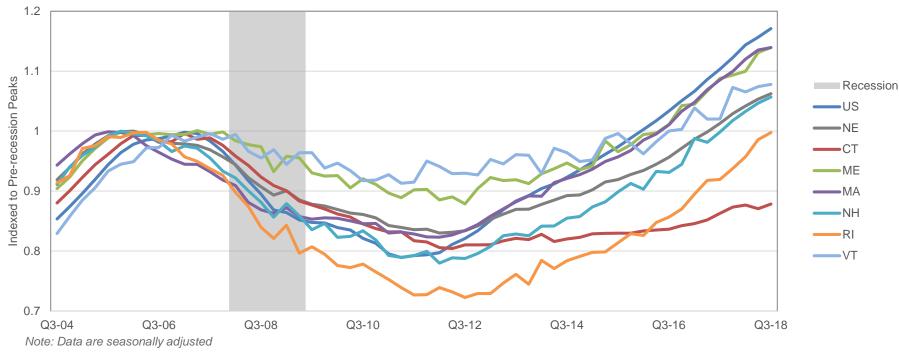
Source: Bureau of Economic Analysis , Haver Analytics

### Non-Agricultural Employment



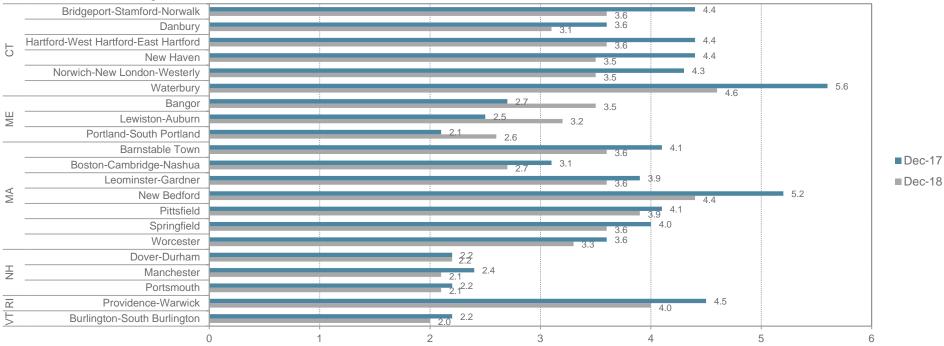
Source: Bureau of Labor Statistics, NBER, Haver Analytics

### FHFA Purchase-Only Home Price



Source: FHFA, Haver Analytics

# Unemployment Rates in New England by Metropolitan Areas



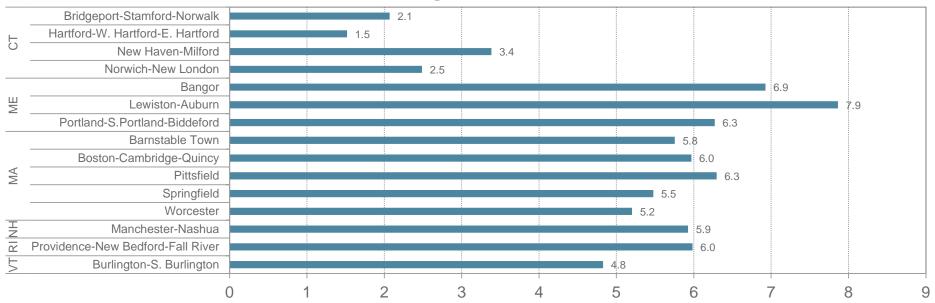
Source: Bureau of Labor Statistics, Haver Analytics, Federal Reserve Bank of Boston

Federal Reserve Bank of Boston | bostonfed.org | February 22, 2019

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# House Price Changes in New England Metropolitan Areas

Percent Change, Q3 2017 - Q3 2018



Note: changes calculated using single family homes

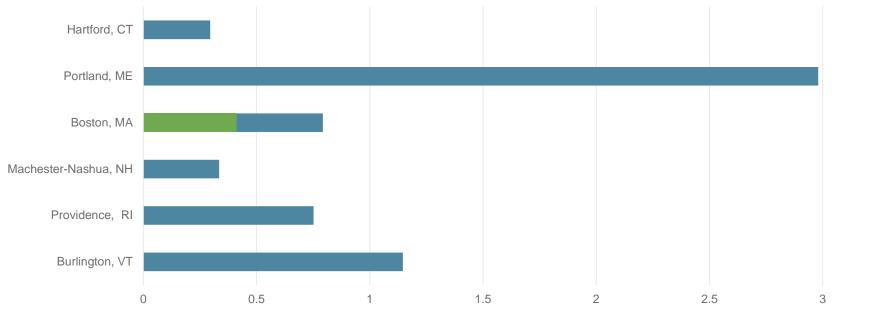
Source: Freddie Mac Home Loan Mortgage Corporation, Haver Analytics

### **Employment Growth Rates**

	Annual Long-Term Trend	Last 12 Months		Since Peak	
	Percent	Percent	Number	Percent	Number
United States	1.4	1.7	2,516,000	8.2	11,331,000
New England	0.9	1.5	113,400	5.8	414,900
Connecticut	0.5	1.3	22,300	-0.7	-11,400
Maine	1.1	1.3	7,900	1.3	8,200
Massachusetts	0.9	1.8	64,400	10.6	351,800
New Hampshire	1.5	2.3	15,300	6.6	42,900
Rhode Island	0.7	1.3	6,300	1.5	7,400
Vermont	1.3	-0.9	-2,800	0.8	2,600

Source: Bureau of Labor Statistics, Haver Analytics

### Top Metro Area Share of Total Jobs Added Since Pre-Recession Peak



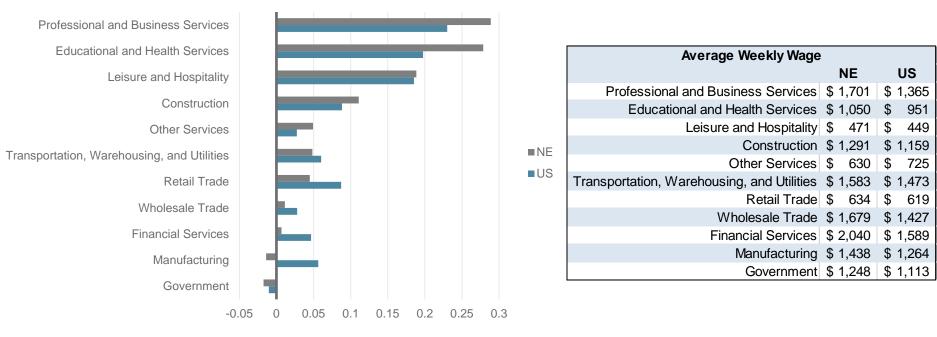
Green segment of Boston, MA refers to the share for the Boston Metro Division whereas the blue refers to the combined Boston-Cambridge-Newton Metro Divisions

Source: Bureau of Economic Analysis and Haver Analytics

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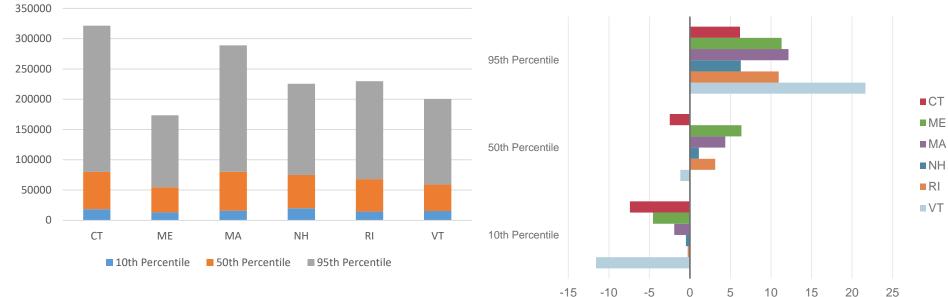
### Industry Share of Jobs Added since Recession



Source: Bureau of Labor Statistics and Haver Analytics

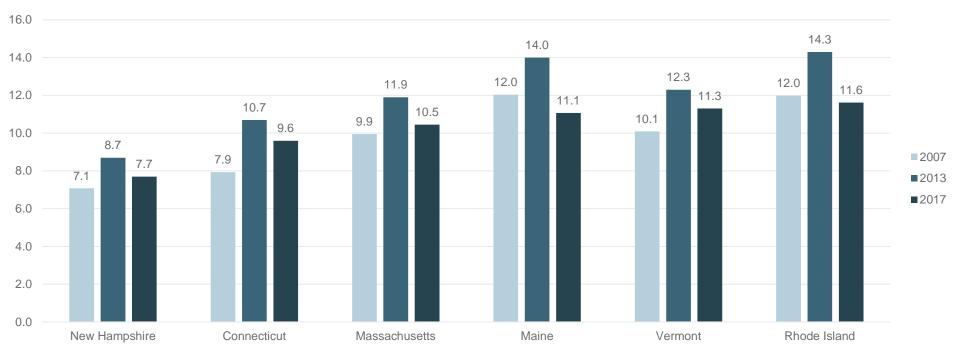
### New England States Income Inequality

#### Percent Change in Real Household Income (between 2007 and 2017)



#### Source: ACS One-Year Estimates

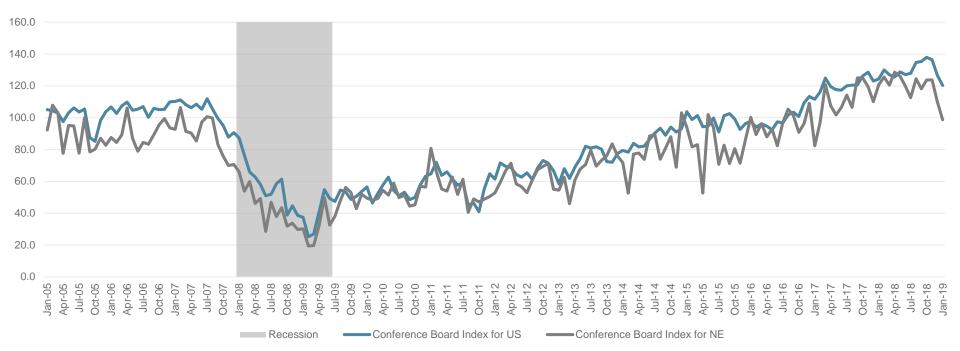
### Poverty Rates by State



Source: ACS One-Year Estimates

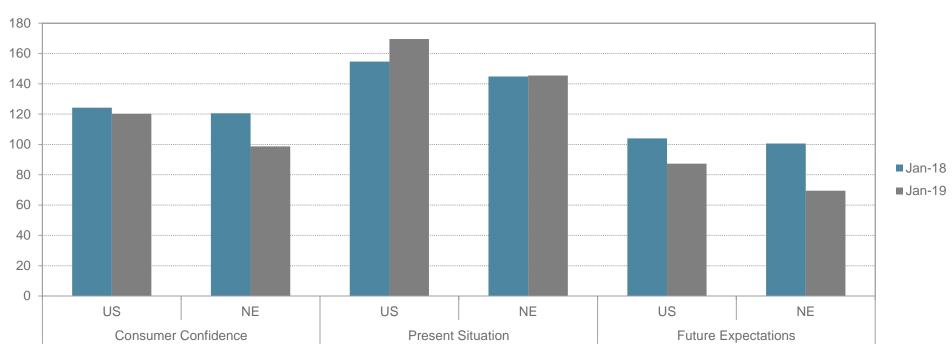
### Slower growth expected moving forward

### **Consumer Confidence**



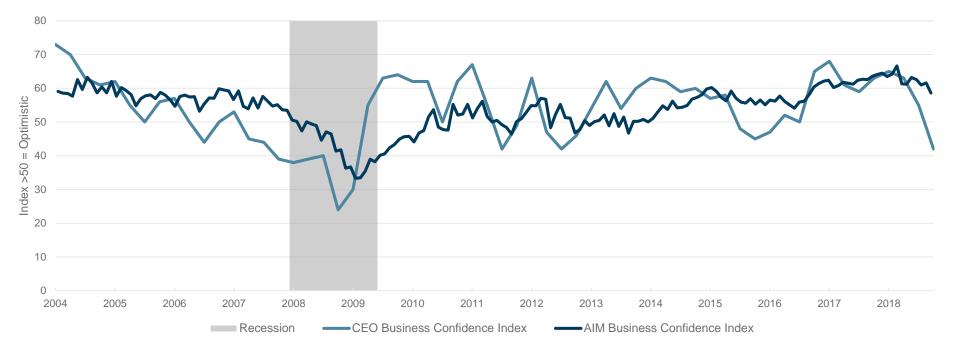
Source: The Conference Board, NBER, Haver Analytics

### **Consumer Confidence**



Source: The Conference Board, Haver Analytics

### **Business Confidence Indices**

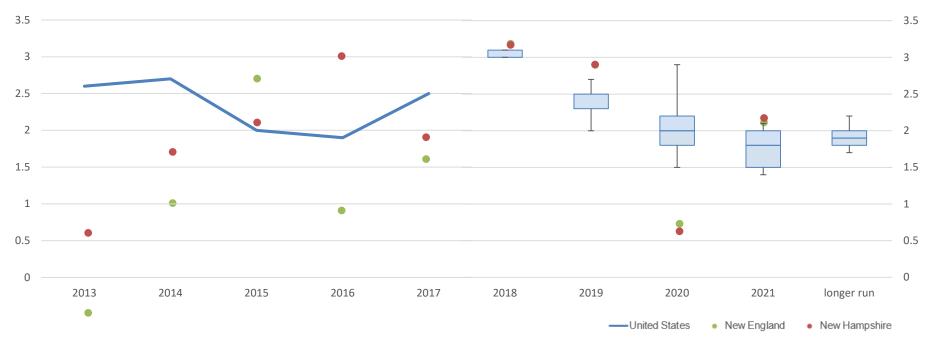


Source: The Conference Board, Associated Industries of Massachusetts, and Haver Analytics

### Housing Sales, Permits, and Starts



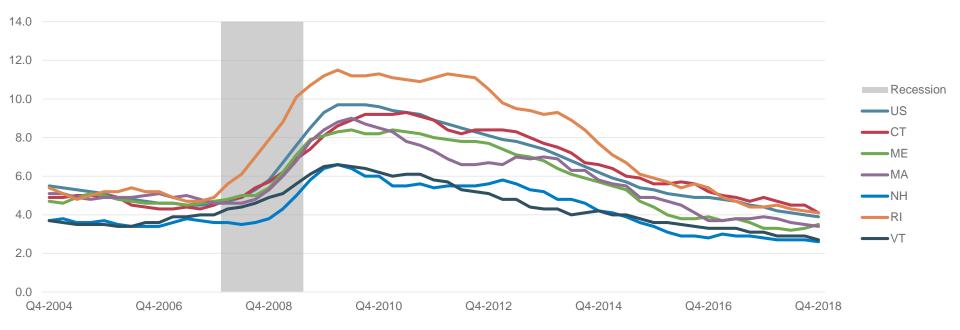
### **GDP** Forecasts



Source: FOMC Minutes from December 2018 and the Bureau of Economic Analysis

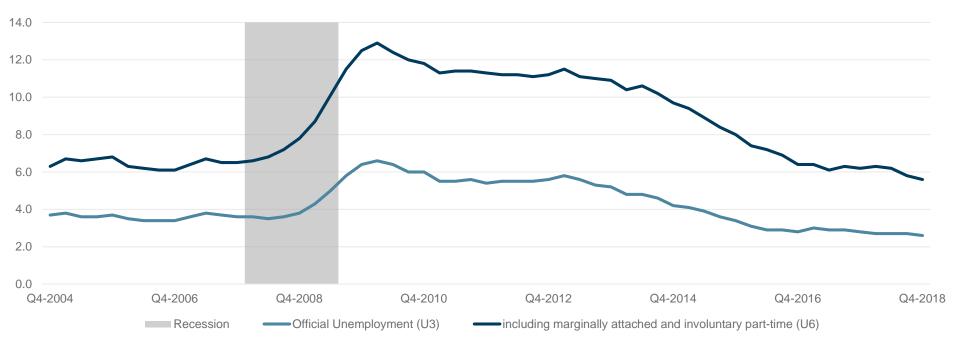
### Near-term challenges?

### Official Unemployment Rate (U3)



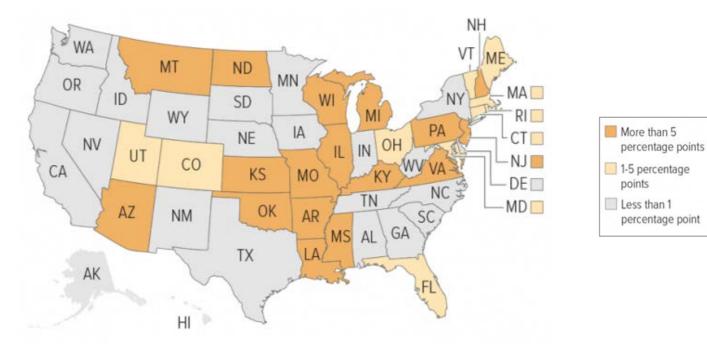
Source: Bureau of Labor Statistics, NBER, Haver Analytics

### New Hampshire Unemployment Rates (U3 and U6)



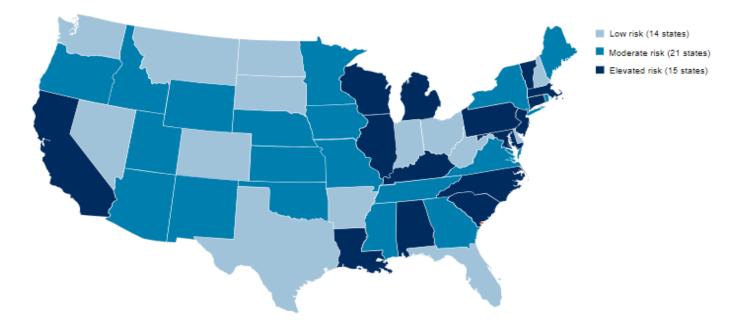
Source: Bureau of Labor Statistics, NBER, Haver Analytics

### Gap between Current and Necessary Reserves



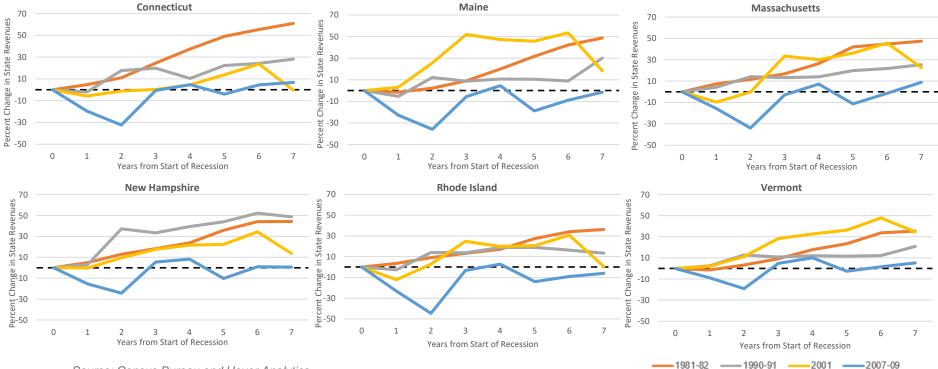
Source: Data from Moody's Analytics, "Stress-Testing States 2018", Visualization from the Center on Budget and Policy Priorities

### State Susceptibility to Fiscal Distress in Recession



Source: S&P Global Market Intelligence; "When the Credit Cycle Turns, U.S. States May be Tested in Unprecedented Ways"

### State Revenues Post-Recession

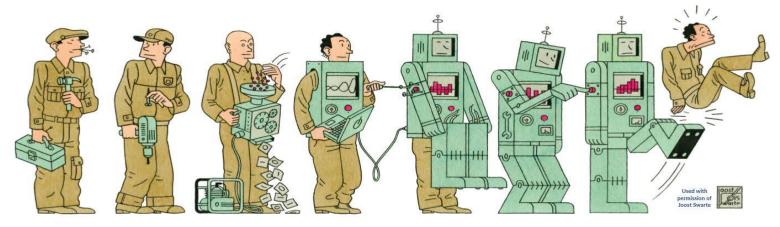


Source: Census Bureau and Haver Analytics

### Long-term challenges

- How New Hampshire Fits into the Economy of the Future
  - Infrastructure
  - Housing Affordability
  - Cost of Higher Education
  - Population Growth and Demographic Shifts

### Work of the Past, Work of the Future



David H. Autor, Ford Professor of Economics, MIT and NBER Richard T. Ely Lecture, AEA Annual Meeting Atlanta, January 4, 2019

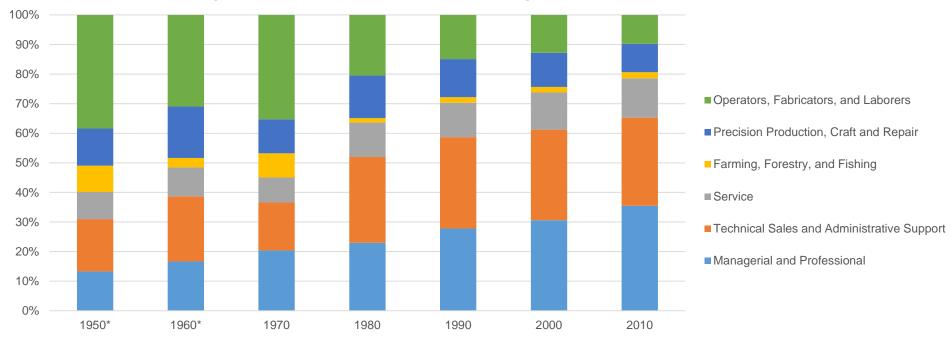
https://www.aeaweb.org/webcasts/2019/aea-ely-lecture-work-of-the-past-work-of-the-future

### Slide currently embargoed, please see

https://www.aeaweb.org/webcasts/2019/aea-ely-lecture-work-of-the-past-work-of-the-future

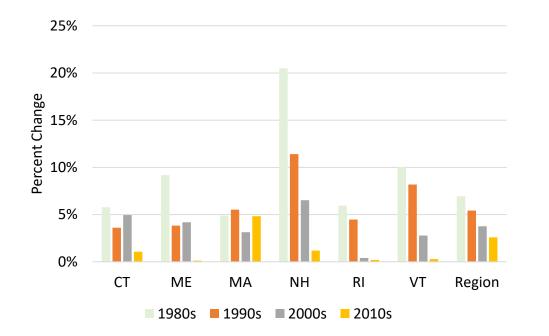
For the full lecture.

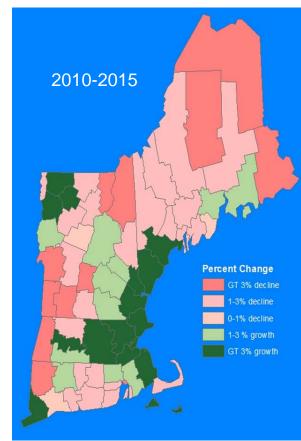
### **New Hampshire Historical Occupation Shares**



\*for 1950 and 1960 this represents the share of known occupations, for all years this excludes military employment Source: Decennial Census Data from the Census Bureau

## Population Growth in New England

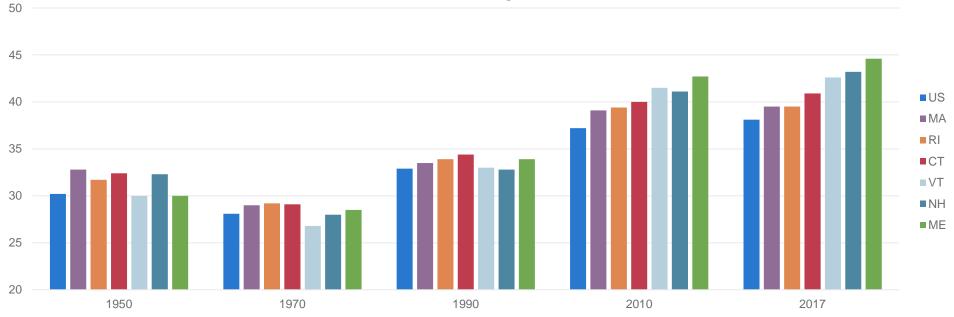




Source: Dr. Peter Nelson, Middlebury College, Slides from Vermont Chamber Economic Conference, January 10, 2019

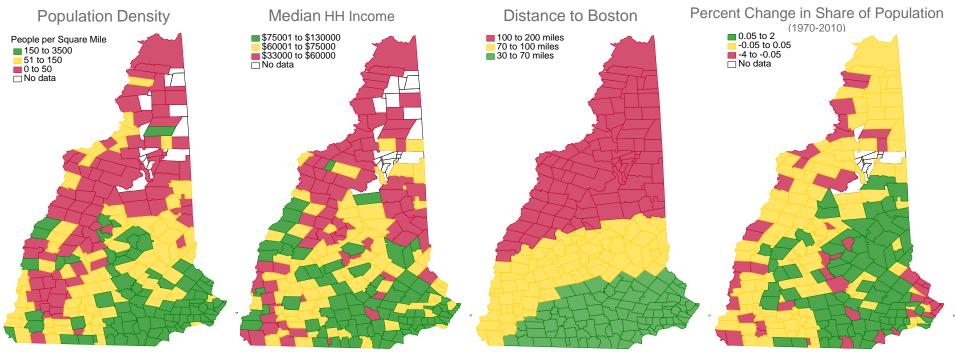
## **Aging New England Population**

Median Age



Source: Decennial Census of Population and Housing, ACS 1 Year Estimate for 2017

### Variation across New Hampshire Towns: The Importance of Boston



Distance to Boston is measured as the distance from the town center to Boston City center Source: US Census Bureau ACS 5-Year Estimates 2017 for New Hampshire County Subdivisions

## Aging Infrastructure Needing Considerable Investment



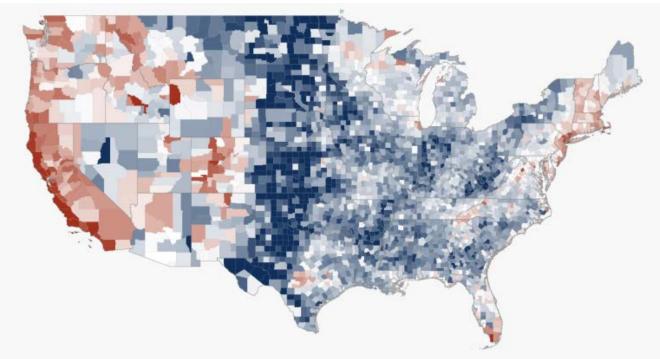


Five New England States Among 10 "Worst" for Infrastructure

	RI	NH	ME	СТ	MA	VT
Rank (1=worst)	1	2	3	4	9	18
Deficient Bridges (as a percent of all bridges)	23.2	10.9	13.3	7.8	9.3	5.6
Average Commute Time to Work (in minutes)	24.8	26.9	23.9	26.3	29.6	21.5
Roads in poor or mediocre condition (as a percent of all roads)	70	54	53	73	42	24
20-year water-system needs	\$1.7 B	\$1.9 B	\$1.3 B	\$4 B	\$12.2 B	\$511 M

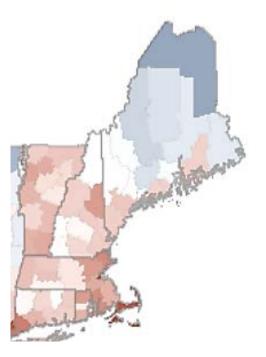
Source CNBC/McKinsey Analysis "Top States for Business: America in Crisis – The 10 States with the Worst Infrastructure"

## Housing Affordability Nationwide



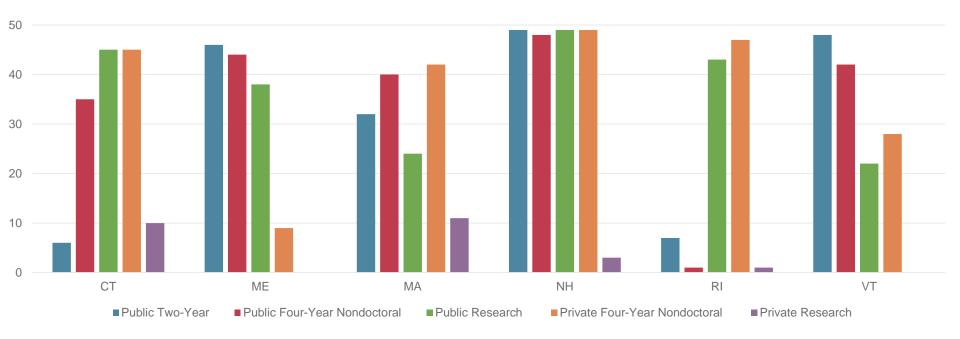
Source: ESRI Demographics "The Delicate Balance between Housing Affordability, Growth, and Income"

## Housing Affordability Index in New England



Source: ESRI Demographics "The Delicate Balance between Housing Affordability, Growth, and Income"

## **College Affordability Rankings**



Source: University of Pennsylvania Institute for Research on Higher Education 2016 College Affordability Diagnosis

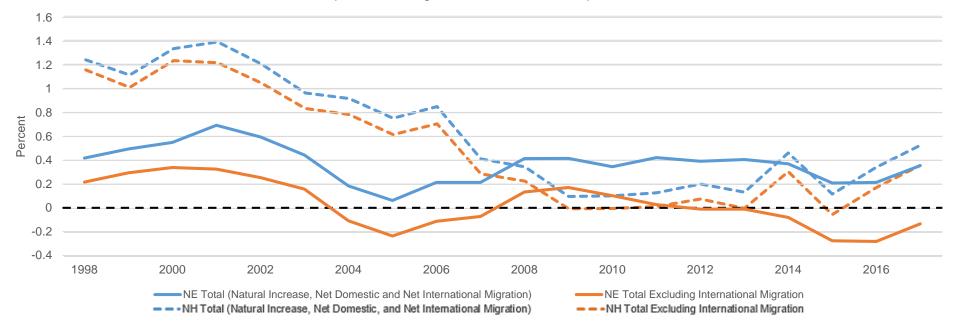
### New England Student Loan Debt

	NH	RI	VT	МА	СТ	ME
Percent of Graduates with Debt		64%	60%	59%	57%	56%
Rank	1	6	15	17	24	28
Average Debt	\$34,415	\$32,250	\$30,651	\$32,065	\$38,510	\$31,364
Rank	4	3	16	7	1	10

Source: The Institute for College Access and Success "Student Debt and the Class of 2017"

## **New England Population Changes**

Population Change as a Share of Total Population



Source: US Census Bureau and Haver Analytics

## In Conclusion

- Attracting and Retaining Young Worker and Families
  - Jobs
  - ► Housing
  - Education
- Connecting all parts of the state to the dynamism of the Boston Metro area
  - Skilled workers
  - Transportation
  - Fiscal connectedness



# Thank You

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