

CRCOG CEDS Advisory Committee Meeting

March 19, 2018



AGEND/

- 1. Why are we here?
- 2. Where are we going and what has been done to date?
- 3. What are our initial findings?
- 4. What goals should we prioritize for further investigation?



The Consulting Team



Fourth Economy is a national community and economic development consulting firm that focuses on fostering action to create great communities, impactful organizations, and strong economies.



IHS Markit is a leading source of information, insight and advisory services in the pivotal areas that shape today's business and policy landscape: economics, financial markets, energy, chemicals, technology, logistics and transportation, healthcare, geopolitical risk, sustainability and supply chain management.



Advisory Committee

- Town of East Hartford Marcia Leclerc
- City of Hartford Luke Bronin
- City of New Britain Erin Stewart
- Town of Glastonbury Chip Beckett
- CRCOG Lyle Wray
- Capital Workforce Partners Alex Johnson
- Town of Windsor Peter Souza
- Hartford Foundation for Public Giving -Jay Williams
- United Way Paula Gilberto
- Leadership Greater Hartford Ted Carroll
- Urban League of Greater Hartford -Adrienne Cochrane
- LISC Andrea Pereira
- Casasnovas Consulting, LLC Jorge Casasnovas
- Connecticut Technology Council Bruce Carlson

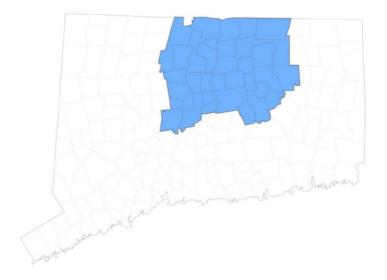
- CCSU Zulma Toro
- UCONN MarkOvermyer-Velazquez
- Goodwin College Mark Scheinberg
- University of Hartford Lou Manzione
- Trinity College Jason Rojas
- Connecticut State Colleges and Universities - Mark Ojakian
- Stanley Black and Decker Tim Perra
- Travelers Insurance James Scannell
- Farmington Bank John J. Patrick, Jr.
- HYPE Kim Bishop

- Hartford Healthcare David
 Whitehead
- YWCA of New Britain Robin Sharp
- CCAT Elliot Ginsberg
- Capital Region Development Authority - Mike Freimuth
- Remarkable Technologies Eric Knight
- Aerospace Alloys Michelle Allinson
- MetroHartford Alliance David Griggs
- The Hartford TBD
- Thomas Dudeck Barings



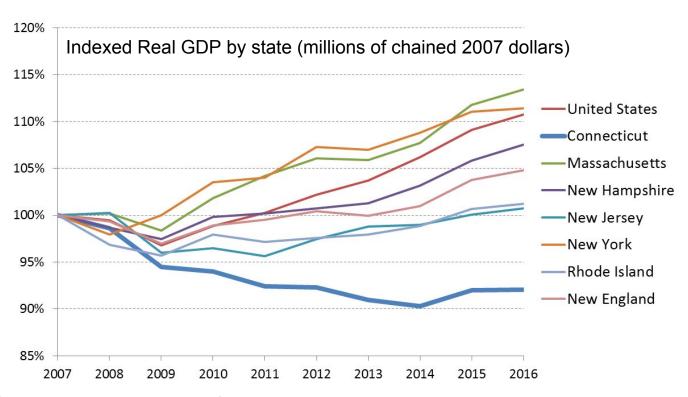
CRCOG Overview

- CRCOG serves 38 cities and towns
- Population is just under 1 million residents
- The region expanded from 30 to 38 municipalities in 2014
- Prior to 2014 four CRCOG municipalities were part of the Central Connecticut Regional Planning Agency's CEDS; four municipalities were part of the Windham/Northeast Connecticut CEDS





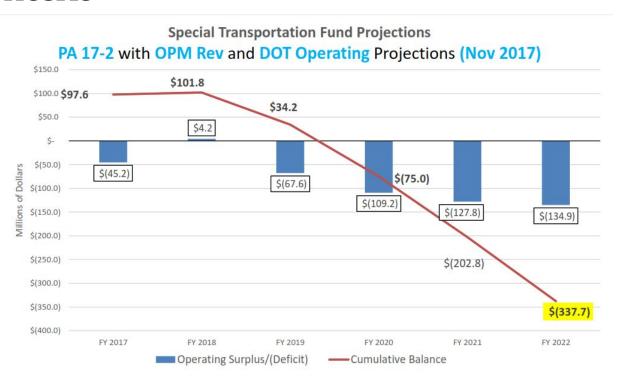
State Context



Source: Bureau of Economic Analysis, Gross State Product from a Presentation by the Commission on Fiscal Stability and Economic Development

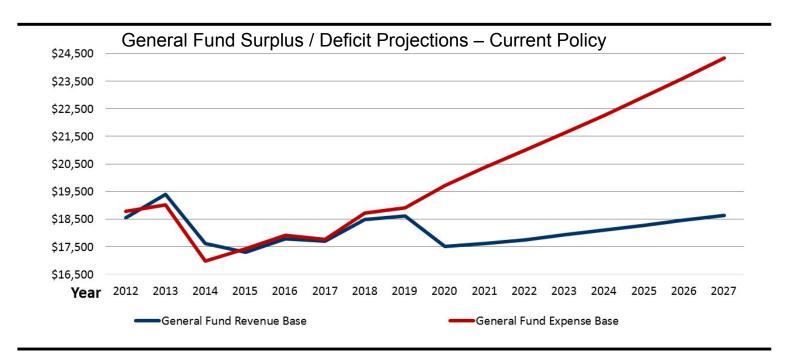


State Context





State Context





Why We're Here... Themes from Transformed Regions

- 🜟 A Bold Vision, Tenacious Leadership, and a Broad Civic Infrastructure
- 🜟 A Region Rallies Around Its City
- 🜟 Engage and Strengthen Industry in a Whole New Way
- 🜟 Regional Investment Supports Quality of Place
- 🜟 Plans Must be Visionary, Market-based, and Action-oriented to Guide Regional Transformation
- Private Sector Investment Responds to Business Climate and Talent Base
- Financing Regional Transformation Requires a Multi-Faceted Approach
- 🌟 Long-term Partnership Requires Non-Partisan Thinking
- Higher Education Partners are Critical for Regional Transformation



Why We're Here... Building Capacity to Implement

Boosting Metro Hartford's Economic Performance in the New Millennium, 2008

Central Connecticut CEDS, 2011

MetroHartford CEDS, 2012

One Region, One Future, 2014

Knowledge Corridor Talent & Workforce Strategy, 2014

Jumpstart Research & Recommendations, 2014

Metro Hartford Progress Points (2014, 2015, and 2016)

Advanced to Advantageous: The case for New England's Manufacturing Revolution, 2015

Capital Workforce Partners WIOA Plan, 2016

CBIA Survey of Connecticut Manufacturing Workforce Needs, 2017

Baseline Assessment of CT's Innovation and Entrepreneurship Ecosystem, 2017

Innovation Places Summary, 2017

Automation and the CT Job Market, 2017

CT Workforce Assessment, 2017

Commission on Fiscal Stability and Economic Growth - slides and final report, 2018

Creating and sustaining transformational change is the bold goal



*Adapted from Kotter, John P., "Leading Change: Why transformation efforts fail," Harvard Business Review, 2007



What are We Building...More Than a Plan

- Create a Vision for the Capitol Region that is rooted in the aspirations of residents with an eye toward the future
- Conduct a Situational Assessment that focuses on strengths and opportunities
- Develop **Goals** that will allow the region to realize the vision and build on strengths
- Identify **Game-changer Strategies** the top three opportunities that the region must capture to enhance economic competitiveness
- Develop specific Actions that can be taken to support goals and achieve the vision
- Build the **Capacity** to implement
- Measure the impact of these game-changer strategies



How Will We Get There?

- **Kick-Off:** What has already been done? What direction do key stakeholders think we should head?
- **Analysis**: What does that data say about Metro Hartford's opportunities?
- **Advisory Committee:** What is the guiding vision and goals of the CEDS?
- Research & Engagement: What do stakeholders and national best practices suggest game-changer strategies would be to achieve our goals?
- Advisory Committee: What are the top game-changer strategies that should be implemented?
- **Investment Prospectus**: What actions, partners, are resources are needed to implement those strategies?
- Capacity Building: How do we build the capacity and partnerships required to sustain implementation?
- **Evaluation Framework**: How will we measure success?
- Roll-out: How do we communicate about our plan and next steps?



What's Been Done So Far?

- Review Existing Plans
- Two Working Group Meetings
- Stakeholder Interviews
- Data Collection and Analysis



Working Group

- John Shemo & Rebecca Nolan Metro Hartford Alliance
- Scott Gaul Hartford Foundation for Public Giving
- Mark Pellegrini Town of Windsor Locks
- Jim Burke- Town of Windsor
- Patrick McMahon Eversource
- John Carson University of Hartford
- Tim Stewart Greater New Britain Chamber of Commerce
- Elliot Ginsberg CCAT
- Jim Boucher Capital Workforce Partners
- Ilka Torres RE/MAX



Stakeholder Interviews (so far)

- Commissioner Catherine Smith-Connecticut Department of Economic and Community Development
- Mark Ojakian- Connecticut State Colleges and Universities
- Alice Pritchard- Connecticut State Colleges and Universities
- Mark Scheinberg- Goodwin College
- Todd Andrews- Goodwin College
- Mike Freimuth- Capital Region
 Development Authority

- Andy Bessette- Travelers Insurance
- Kobi Benita- NervoMatrix
- Susan Winkler Connecticut Insurance and Financial Services
- Matt McCooe- Connecticut Innovations
- Glen Thames- CTNext
- Kevin Dillon- Bradley Development League
- Tim Lescalleet- Griffin Industrial Realty
- Alex Johnson- Capital Workforce Partners
- Patrick McMahon- Connecticut Main Street Center



Your Role Today

- Provide feedback on strawman goals
- What did we miss?
- Prioritize strawman goals based on:
 - Collective will to address
 - Level of control / ability to impact outcomes

Ultimately... where would this group's collective resources move the needle?



Existing Regional Vision

One Region, One Future Action Agenda (2014)

- Is connected to Boston and New York City, to worldwide markets, and to knowledge-sector industries;
- Is competitive in the New England, United States, and global economy;
- Is made up of vibrant communities that house diverse populations, and attract and retain Millennial workers, retiring Baby Boomers, and growing businesses; and
- Is green, with energy efficient homes, businesses and forms of transportation, and cleaner air and water.



Strawman Goals

Connected

- Connect our region to markets in the Northeast.
- Connect our region to the markets around the globe.

Competitive

- Create a robust pipeline of talent that has the skills and experience that industry needs to succeed in the 21st Century.
- Ensure that businesses (in particular, second stage businesses) have the capital and technical assistance they need to scale and adapt to new technology.

Vibrant

- Enhance our Quality of Place to retain and attract more talent.
- Develop a more robust, connected innovation ecosystem to support new business creation and growth.

Green

- Invest in Transit-Oriented Development and environmentally-sensitive development.
- Develop a more affordable, efficient, and clean energy system.

Fourth Economy's Observations



Connected

- The region has the right assets, but they are siloed
- Community culture is not very regional multiple 'centers' of gravity

Competitive

- Expected to see more progress in the region's transformation large amenities
- Two large industry sectors have driven recent trends, but diversity exists

Vibrant

- Downtown center lacks energy, programming to drive attraction
- Housing downtown is better, but still seems to be less than needed
- o Only recent focus on innovation-driven business; less startup activity than expected

Green

- Connection to water is limited other cities have used it as the transformational catalyst
- Not as much focus as seen in other markets

Overall

A lot of planning but who leads execution





 Is connected to Boston and New York City, to worldwide markets, and to knowledge-sector industries

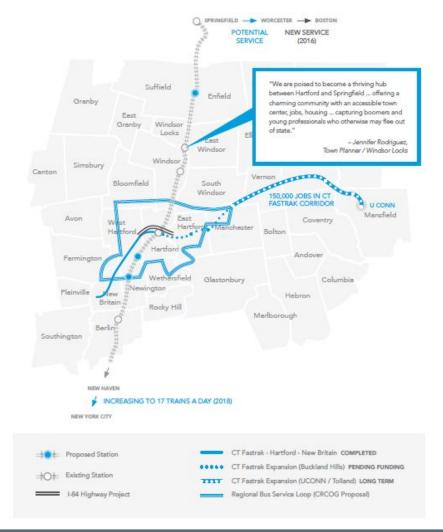


Strategic Location

- Connecticut has traditionally been home to the headquarters of major companies due to its strategic location
- Primarily located in Hartford County 592, Middlesex 76; and Tolland 32
- Largest HQ companies in the Hartford MSA by global revenues include:
 - Aetna
 - United Technologies
 - Cigna
 - The Hartford Financial Services
 - Otis Flevator
 - Stanley, Black and Decker
 - Tri State Business Systems
 - Connecticut General
 - Travelers Insurance

FOURTH economy

New and Proposed Rail, Bus, and Highway **Projects to Connect the** Region





Initial Foreign Direct Investment Observations

- FDI is sourced most highly from **Europe**, particularly the UK, France, Germany, and the Netherlands
- Foreign owned enterprises are more concentrated in retail, architecture and engineering, insurance, metalworking machinery, and fabrics
- FDI in Hartford has been relatively flat since the recession
- Flights on Aer Lingus have been opening up new markets to the region's businesses



How do we create a more Connected Region?

Strawman Goals

- Connect our region to markets in the Northeast.
- Connect our region to the markets around the globe.



What strategies would better connect our region to the Northeast?

- Identify and secure more **stable funding** sources for transportation improvements.
- Pursue a rail connection to Boston through Springfield.
- Pursue major congestion relief projects on the region's highways.
- Improve freight access to Bradley.
- Encourage mode shift from trucks to rail for freight.



What strategies would connect our region to the Globe?

- Enhance and leverage Bradley, including pursuing airport funding enhancements, expanding non-stop and transatlantic flights, and establishing improved transit connections.
- Coordinate and target Foreign Direct Investment and business attraction efforts.





Is competitive in the New England, United States, and global economy



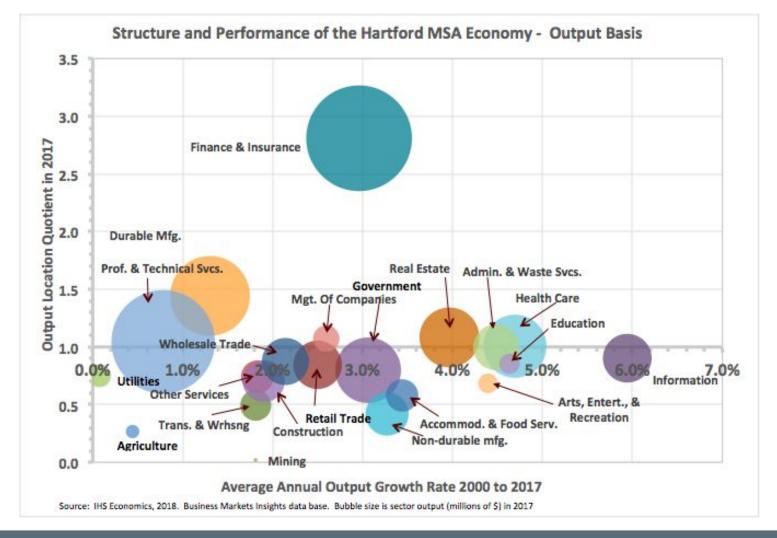
What are Metro Hartford's high-potential sectors?

- Advanced High levels of innovation & STEM workers
- Traded Goods & services are sold outside the region
- Above avg. employment and/or greater employment growth than U.S.

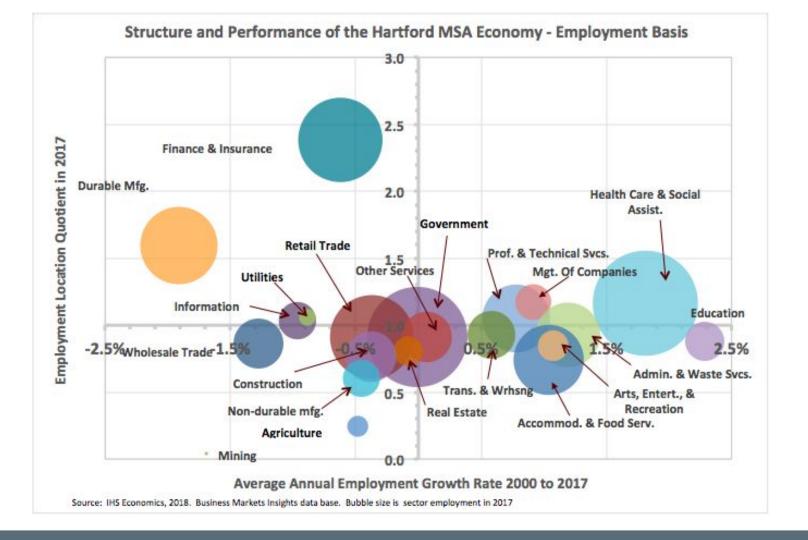


What do existing plans say about high-potential clusters?

- The Commission on Fiscal Stability and Economic Growth identified **FinTech** and **Advanced Manufacturing** as targets for Metro Hartford.
- The 2017 Innovation Places Strategic Plan focuses on InsurTech, MedTech, and Aerospace/Advanced Manufacturing.
- The 2015 Deloitte study Advanced to Advantageous supports a focus on Advanced Manufacturing, specifically Digital Design and Prototyping, Additive Manufacturing, and the Internet of Things.











What are Metro Hartford's high-potential clusters?

Business Services

- Large Legacy Legal Services sector
- Business services supports and enhances growth in other sectors Finance, Insurance.
- Health Care benefits from region's cost advantages, proximity to large NE US market

Insurance and other Financial

- Region still has a competitive advantage for this sector critical to maintain it
- Insurance services creates demand for a variety of business services, and workers in financial occupations

Printing Services

- Creates demand for Chemical Products
- Supports Business Services



What are Metro Hartford's high-potential clusters?

- Metal Working and Metal Products
 - Upstream and downstream e.g. architectural and structural metals vs. cutlery and hand tools
 - Large laggard Wholesale trade sectors hardware, electrical goods, and Misc. Durable goods
- Production Technology Machinery and Equipment
 - Electronic Instruments (3345) Large laggard sector demand from Aerospace
 - Legacy of Region's aerospace history, major supplier to it
- Aerospace
 - Source of demand for machinery and metals products
 - Challenge will be supply of skilled workers
- Medical Devices
 - Serve large NE US health care sector, health insurance providers.
 - Region has small Pharmaceutical sector (3254), could benefit from other, but located to major pharma clusters in other NE metros



2017 Yale CT Workforce Assessment

Executive Summary

- The data does not support the public perception that Connecticut currently faces a critical workforce skills gap, however major employers foresee an increased demand in several key skills that could lead to future shortages
- Middle-skill jobs, requiring a minimum education of high school (or equivalent) and some on-the-job training, make up the largest part of CT's current
 and future labor market, and therefore should be the focus of future workforce development programs
- CT's vocational programs currently require significant proactivity by participants and lack integration across the value chain, making them less effective than vocational programs in other states
- Across every industry, companies identified basic professional skills as their most pressing skills gap: customer service, problem solving, and learning
 agility among others; data analytics, data science, and cyber security were mentioned as most critical occupational needs
- Successful sector partnership programs help participants develop these key workforce skills and have contributed to outperformance in job growth in several states, serving as a template for future sector partnership programs in CT
 - Sector partnerships are most effective when combining key attributes (funding, technical assistance and communication) with skill equity



What can be done to make these clusters more Competitive?

Strawman Goals

- Create a robust pipeline of talent that has the skills and experience that industry needs to succeed in the 21st Century
- Ensure that businesses (in particular, second stage businesses) have the capital and technical assistance they need to scale and adapt to new technology



What strategies would help create a 21st Century workforce?

- Enhance integration of programs from K-12 through Higher Ed
- Increase industry partnerships and apprenticeships
- Increase soft-skill training
- Engage more **minorities and women** the workforce of the future
- Position Metro Hartford for the Roosevelt Island-model STEM campus proposed by the Commission on Fiscal Stability and Economic Growth



What strategies would help businesses scale and adapt?

- Enhance access to capital for businesses (esp. second stage) to invest in technology and growth
- Enhance programs for businesses to adapt to new technology and transition to next generation businesses
- Enhance opportunities for businesses to increase exports
- Enhance industry-university partnerships to advance innovation

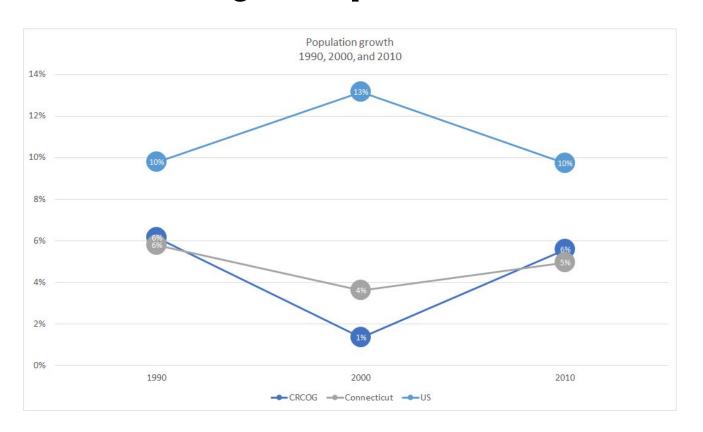




• Is made up of **vibrant** communities that house diverse populations, and attract and retain Millennial workers, retiring Baby Boomers, and growing businesses

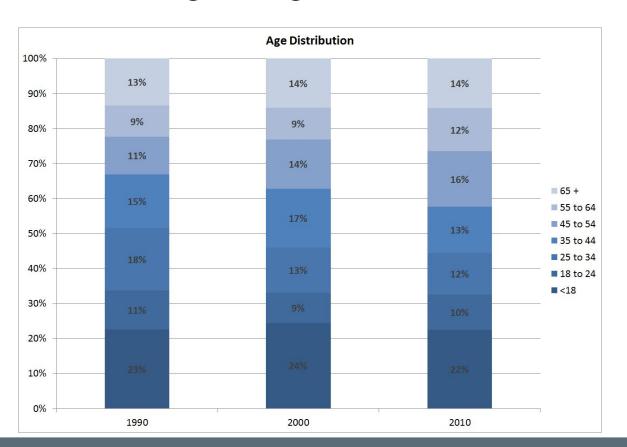


How Vibrant is our Region: Population Trends



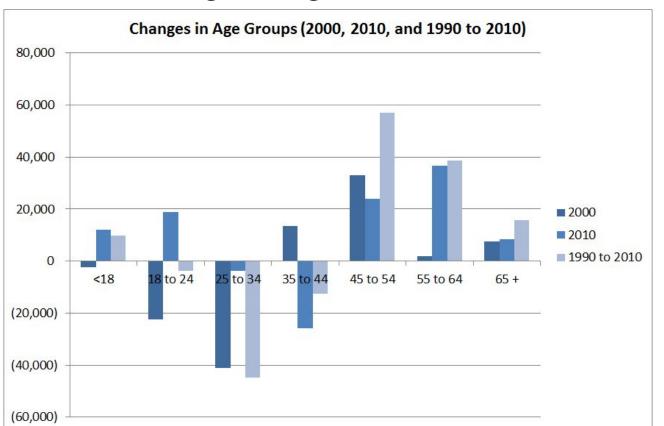


How Vibrant is our Region: Age Distribution





How Vibrant is our Region: Ages

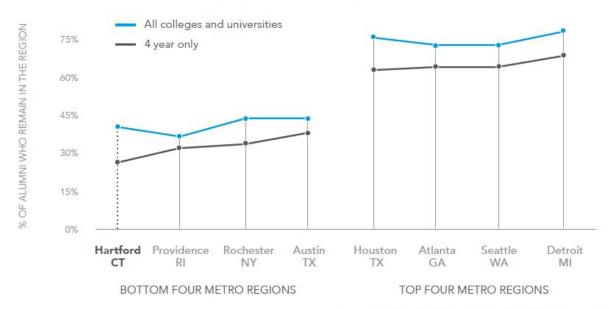




How Vibrant is our Region: Talent Retention & Attraction

-

The Metro Hartford region retains the fewest four-year graduates of any metro region in the country with 60% of recent graduates citing 'jobs' as their primary reason for leaving.



Source: Brookings Institution, Metropolitan Policy Program, 2014.



How Vibrant is our Region: New Business Creation

- With companies performing \$6.8 billion in R&D in 2014, Connecticut is a leading state
 in industrial research. Areas of industrial strength and research concentration reflect
 the presence of large, innovative Connecticut companies in pharmaceuticals and
 medicines, aerospace and defense, and fabricated metals.
- Compared to the national average levels and against the comparison states, patenting is an area in which Connecticut is leading.
- When normalized against the size of a university's research base, Connecticut
 universities' startup activity still similarly ranks near the bottom relative to the other
 states.
- Connecticut has a lagging share of venture capital funding and deals going to companies at critical seed and early stages of development.

(TEConomy Assessment of CT Innovation Ecosystem, 2017)



How Vibrant is our Region: New Business Creation

- Large Firms those with 250 or more workers employ about 60% of the MSA's workers.
- By contrast, small firms or those with < 50 employees account for only 25% of all jobs.
- An overwhelming majority of firms are over 11 years old.
- New businesses make up just 2% of employment.
- Accommodation & Food Services and Other Services have had a higher representation of new businesses in recent history. Other Services is also primarily small businesses.



How Vibrant is our Region: New Business Creation

Snapshot of Connecticut's small and medium enterprises

Numbers = CT's Rank among states

- VC funding as a % of GDP³
- Percent of adults per month starting a business⁴
- 0-5 year firms as % of total⁵

24

31

37

- PE investments as % of GDP⁶
- Survival rate of new establishments after 10 years²
- Small business lending per employee⁷



Larger,
older
companies

Large companies (500+ employees) make up 51% of employment and old firms (21+ years) make up 45% of employment



Trailing entrepreneurship

The state is a **leader in innovation** (7th most patents per capita), and has a reasonable supply of funding (14th in venture deal volume per capita), however **ranks 37th in share of firms younger than 5 years**



Low business survival rate Connecticut ranks 32nd among states for company survival of 5+ and 10+ years, and many of its small businesses have not recovered the jobs lost in the recession



High cost of living, uncertainty of legislation and high state business taxes are hampering growth says the small and medium businesses recently surveyed



How can we create a more Vibrant Region?

Strawman Goals

- Enhance our Quality of Place to retain and attract more talent.
- Develop a more robust, connected innovation ecosystem to support new business creation and growth.



What strategies would enhance our quality of place?

- Continue to invest in new housing options in defined areas for density affordable/ workforce housing and market rate
- Invest in and promote parks and historic/ cultural assets to both residents and regional and global audiences
- Enhance programs to **retain** the next generation workforce and to turn residents into **ambassadors** for the region
- Expand the region's bus rapid transit system (CTfastrak) to provide access to jobs



What strategies would develop a more robust, connected innovation ecosystem?

- **Increase the number** of start-ups, particularly in high-potential sectors
 - o Increase access to seed and early stage venture and angel capital
- Help young businesses survive and thrive through mentorship, networks, and technical assistance
- **Enhance coordination** of innovation ecosystem assets, ease of access for entrepreneurs, and engagement with anchors and corporations





• Is **green**, with energy efficient homes, businesses and forms of transportation, and cleaner air and water

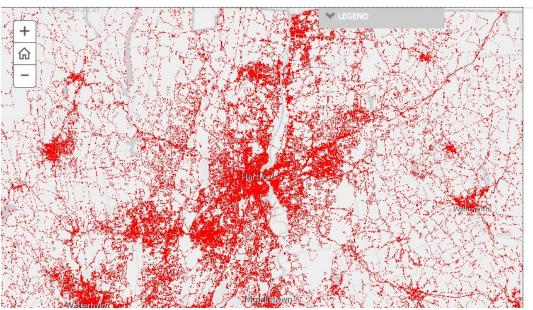


How Green is our Region: Land Use









Between 1985 and 2010, Connecticut



Trends-

of developed land.

Connecticut's population has grown from about 2 million in 1950 to about 3.6 million today. With this growth has come a large increase in the amount of developed land. Averaged over the study period, the 149 square mile

gain equates to 10 acres/day.

Explore the change maps:

- 1985 developed lands
- 2010 developed lands
- Gain in developed land (to developed, dark gray was already developed)
- · Change in developed by town



How Green is our Region: Commuting Trends



81% of all Metro Hartford workers commute alone by car 83% of the 121,000 jobs in Hartford are filled by commuters 65%
of Hartford residents with jobs are employed outside of Hartford

75% of Hartford workers who commute outside of Hartford make less than \$40K

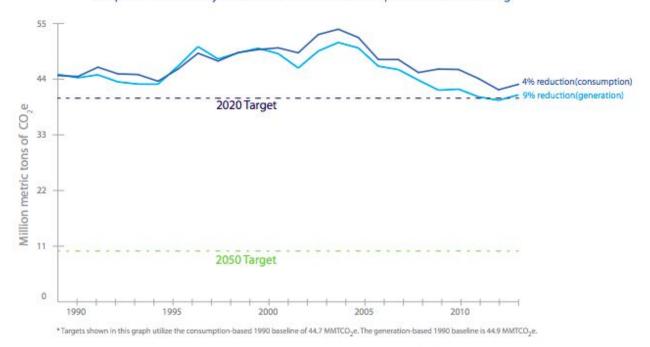
Source: U.S. Census Bureau, 2011



How Green is our Region: GHG Emissions

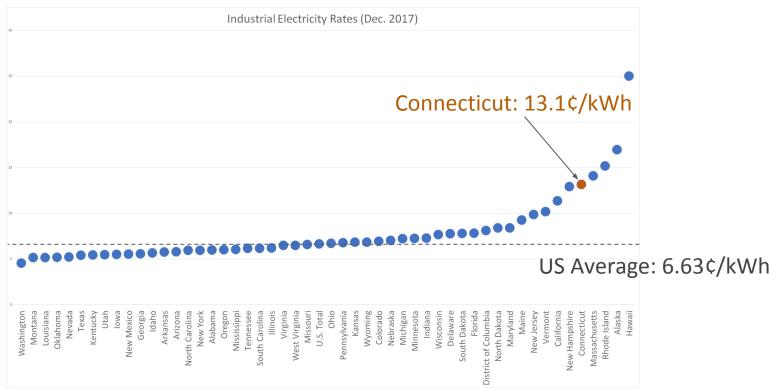
Connecticut Statewide Greenhouse Gas Emissions 1990-2013

Comparison of Electricty Sector Generation and Consumption-based Accounting





Electricity Rates





How can we be more competitive by being Greener?

Strawman Goals

- Invest in Transit-Oriented Development and environmentally-sensitive development
- Develop a more affordable, efficient, and clean energy system



What strategies would support investment in TOD?

Best Practices: Five key characteristics define best practices for engaging anchors, government, and community organizations in a mutually beneficial relationship that can spur TOD and economic growth in the region.

Vision	Common goals and a shared long-term plan for development.
Partnerships	Formalized partnerships centered around a mutually beneficial vision.
Development Entity	A public, private or nonprofit entity with the ability to guide development and channel multiple funding streams.
Community Involvement	A sustained commitment to include the community's perspective in the visioning, partnership, and implementation phases.
Public Investment	Government investment, including up-front financial commitments, incentives, and the physical relocation of government offices.



What strategies would promote environmentally -sensitive development?

- Adopt Zoning Incentives to Promote Compact, Mixed-Use, Mixed-Income Village Centers and Downtowns.
- **Revitalize Urban Centers** by Attracting Jobs, Housing, and Mixed-Use Development.
- Revitalize Urban Areas through Remediating and Reusing Brownfields, Maximizing Access to Parks and Recreational Areas, and Maximizing Access to Local Food Sources.
- Adopt Municipal Zoning Strategies and Other Policies That Will Reduce Our Impact on the Environment and Help Reduce Greenhouse Gases.
- Coordinate Regional Efforts for Land and Water Conservation, and Protection of Key Natural Resources.

(Source: One Region, One Future)



What strategies would create a more affordable, efficient, and clean energy system?

Recommendations from the 2017 ISO Regional System Plan:

- Developing new resources near load centers, particularly in the Southeastern New England zone
- Development longer-term **transmission expansion** projects
- Reducing regional reliance on natural-gas-fired generation
- Advocating for timely policy decisions around carbon emissions targets and other regional and state policies
- Addressing technical challenges to integrating renewable sources and realizing full benefits of energy storage, microgrids, and smart grid technology



Prioritization and Next Steps

- Review goals
 - What should we change?
 - What goals did we miss?
 - Prioritization exercise
- Next steps April Strategy Groups



Review of Strawman Goals to Prioritize

Connected

- Connect our region to markets in the Northeast.
- Connect our region to the markets around the globe.

Competitive

- Create a robust pipeline of talent that has the skills and experience that industry needs to succeed in the 21st Century.
- Ensure that businesses (in particular, second stage businesses) have the capital and technical assistance they need to scale and adapt to new technology.

Vibrant

- Enhance our Quality of Place to retain and attract more talent.
- Develop a more robust, connected innovation ecosystem to support new business creation and growth.

Green

- Invest in Transit-Oriented Development and environmentally-responsible development.
- Develop a more affordable, efficient, and clean energy system.