

City of Essex Junction Vision and Strategic Action Plan Future Think-Tank PART 1















PROJECT OBJECTIVES

Now that the City is independent, the City Council wants to provide an opportunity for the community to discuss the priorities and vision for the City of Essex Junction's future and five-year Strategic Action plan.

- Create a comprehensive and sustainable 5-year Community Vision and Strategic Action Plan for the City of Essex Junction.
- Provide deep and wide engagement with the community















Project stages and opportunities to engage

Importance of Future Thinking

- Project Portal
- Listening Sessions
- Community Survey #1

Aug – Sept 2023

Exploring Future
Trends and Scenarios

- Think Tank
- Community Survey #2
- Charette

Oct - Dec 2023

Preferred Future and Roadmap

- Focus groups
- City of Essex Vision and Strategic Action Plan

Jan – Feb 2024

Building understanding and insights into the future

City of Essex Junction—Future Think-Tank

Part 1 – Explore Future Trends

- Macro trends shaping the future
- Key drives shaping the future
- Rating future impact of drivers

Part 2 – Build regional scenarios

- Develop plausible scenarios of the future
- Identify expected and preferred futures
- Build strategic pillars















Key emerging trends shaping the future of the City of Essex Junction





The Importance of Future Thinking

The key to effective future thinking...

Consider both **trajectory** (direction of change) and **velocity** (speed of change).





The challenge for the Think-Tank

- Explore the future -
- Ask the hard questions -
 - Think creatively -

The outcome may be a new view of the future.



Forces impacting the world, regions and people

What are the emerging macro drivers...

Macro Trends and Forces of Change Related to . . .

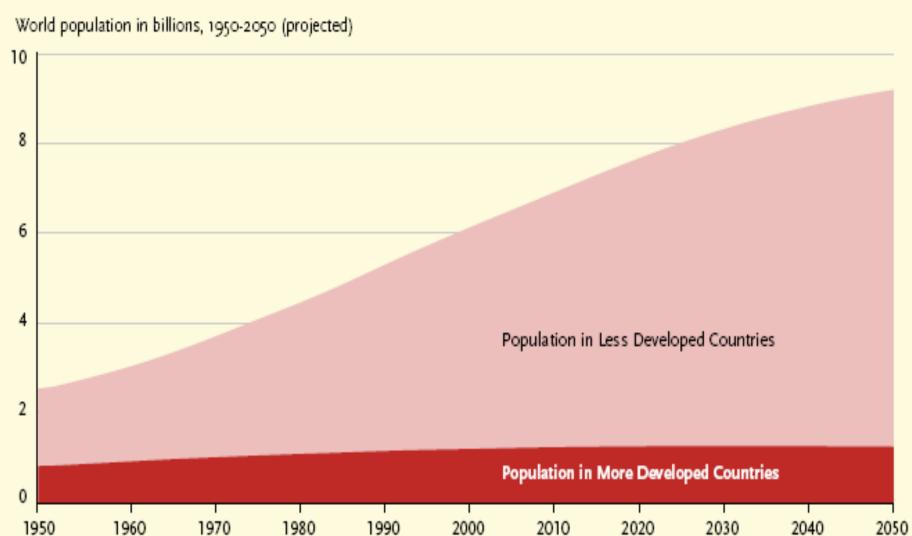
- Demographics, population and mass urbanization
- Energy, food, water & climate change
- Technology driving change



Demographics, population and mass urbanization

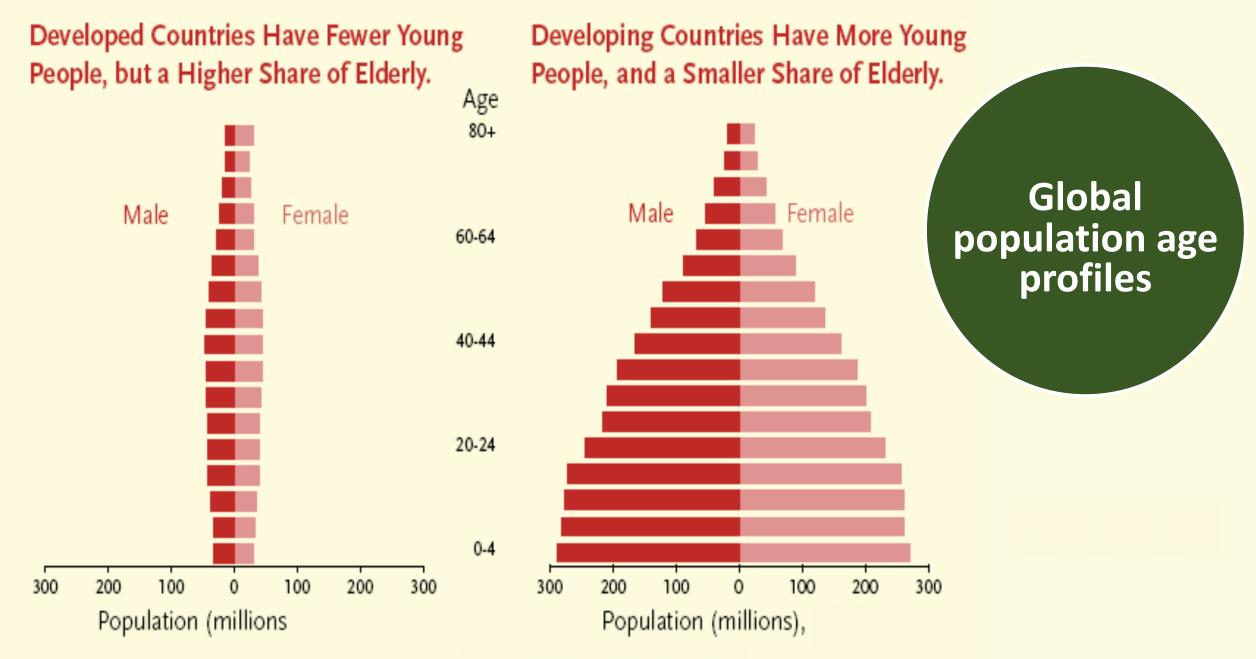
future>iQ

Global Population Growth Is Driven By Developing Countries.

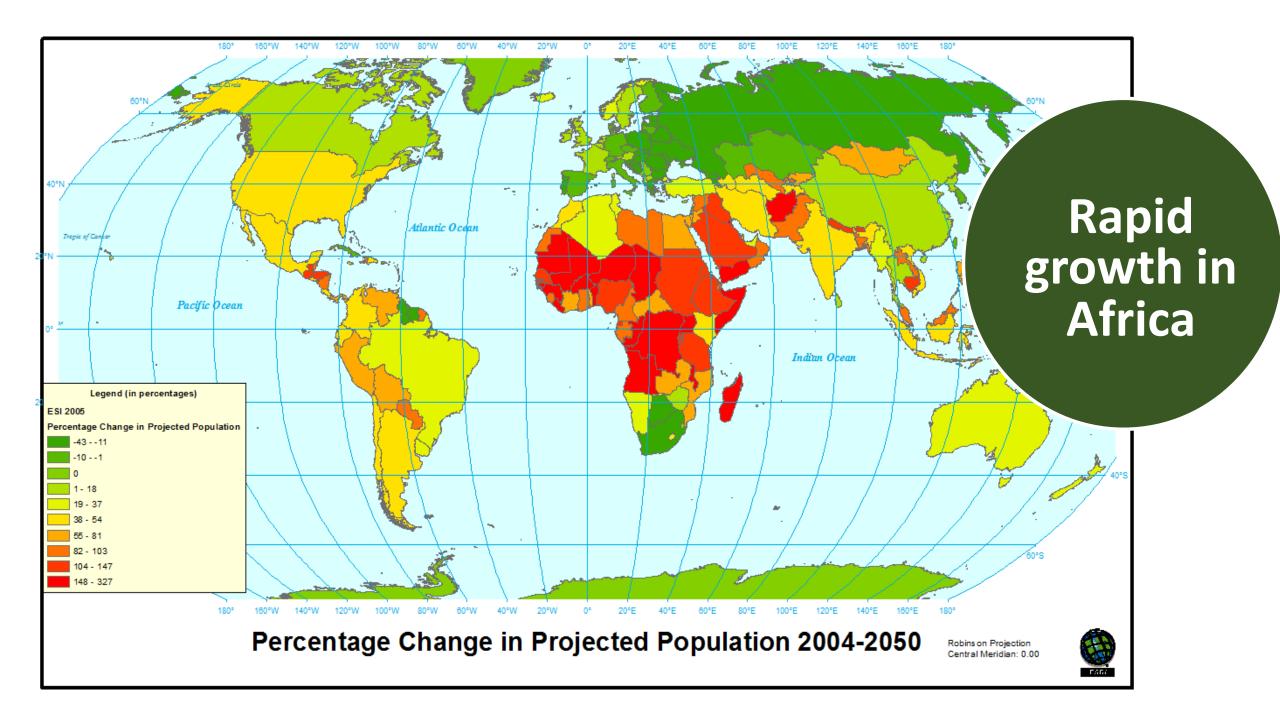




Source: United Nations, World Population Prospects:



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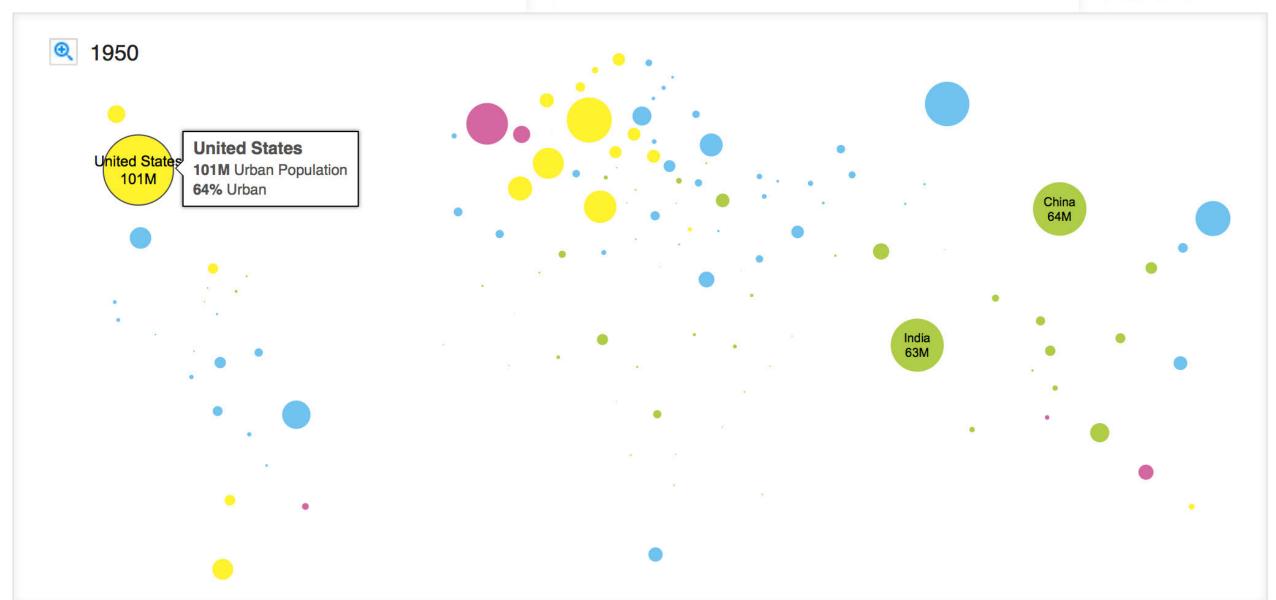


AN URBAN WORLD

This graphic depicts countries and territories with 2050 urban populations exceeding 100,000. Circles are scaled in proportion to urban population size. Hover over a country to see how urban it is (percentage of people living in cities and towns) and the size of its urban population (in millions).

Urban Population

- Greater than 75%
- 9 50% 75%
- 9 25% 50%
- Less than 25%



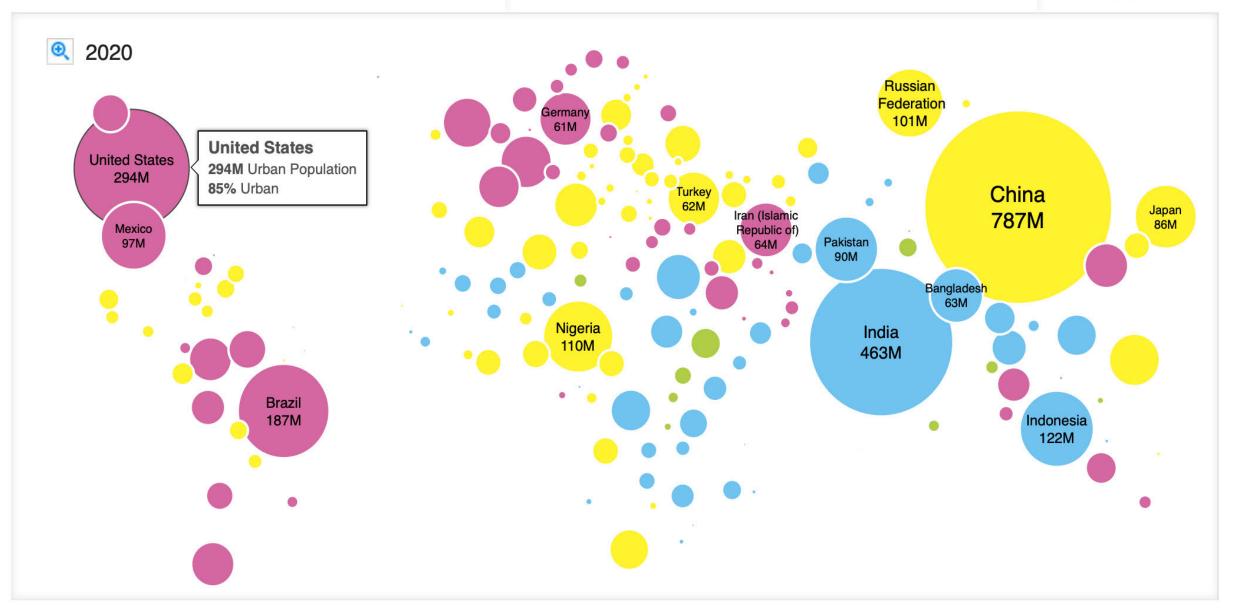


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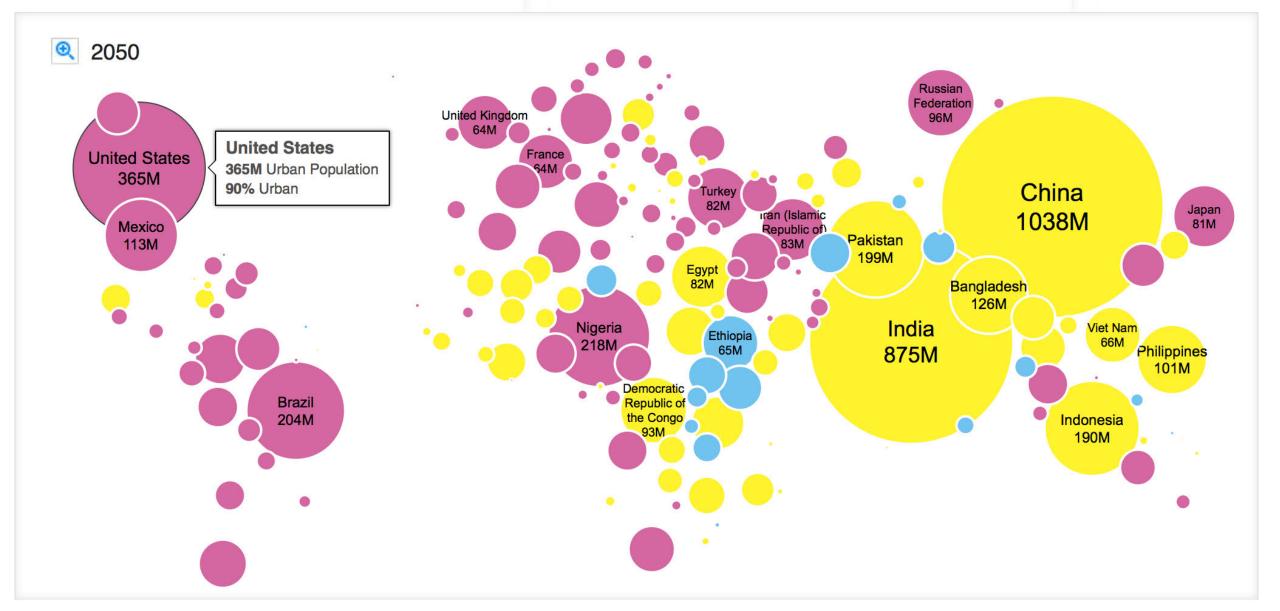


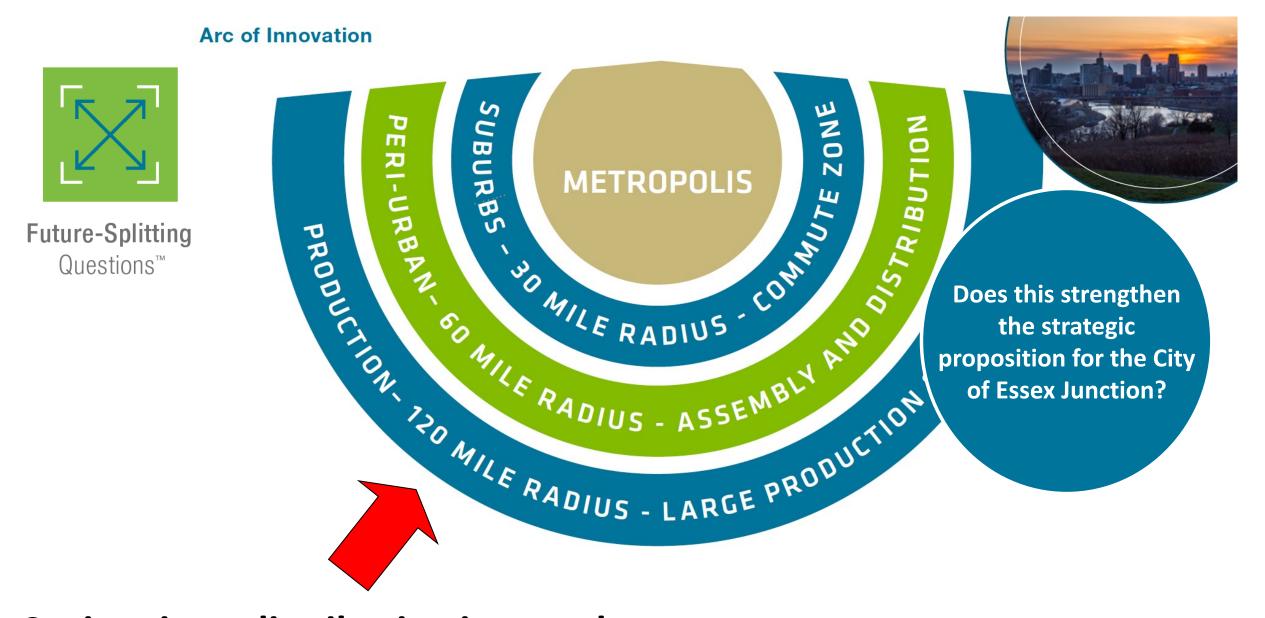
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Urban Population

- Greater than 75%
- 50% 75%
- 25% 50%
- Less than 25%



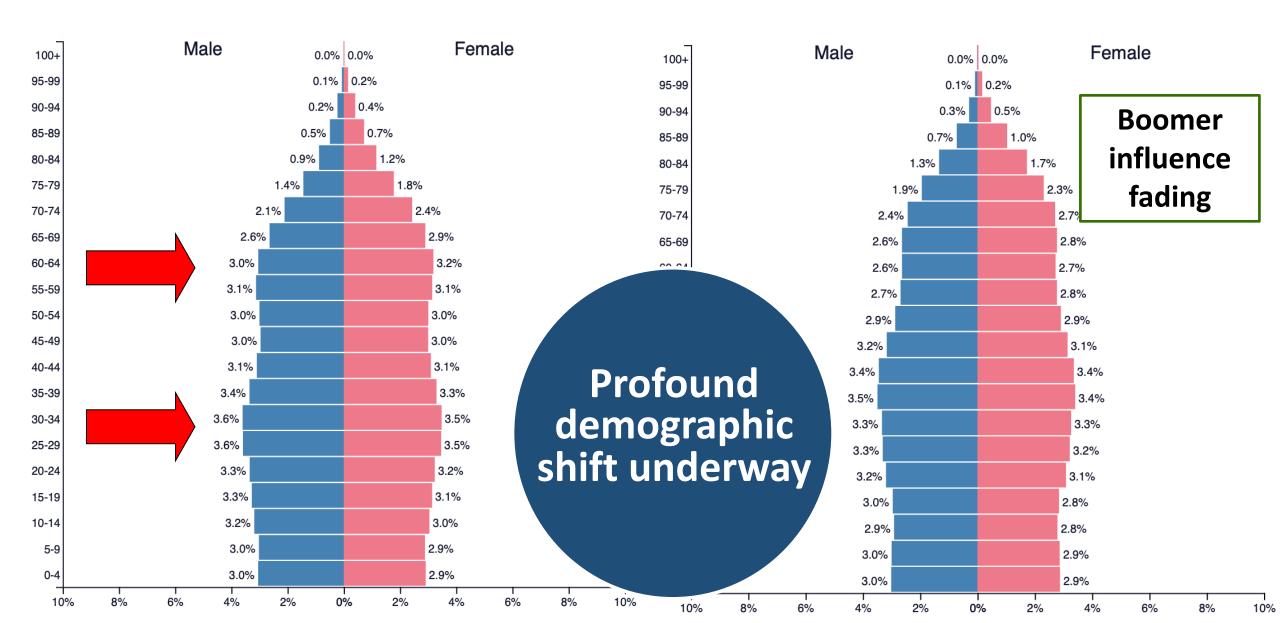


Society is re-distributing into and around mega-cities

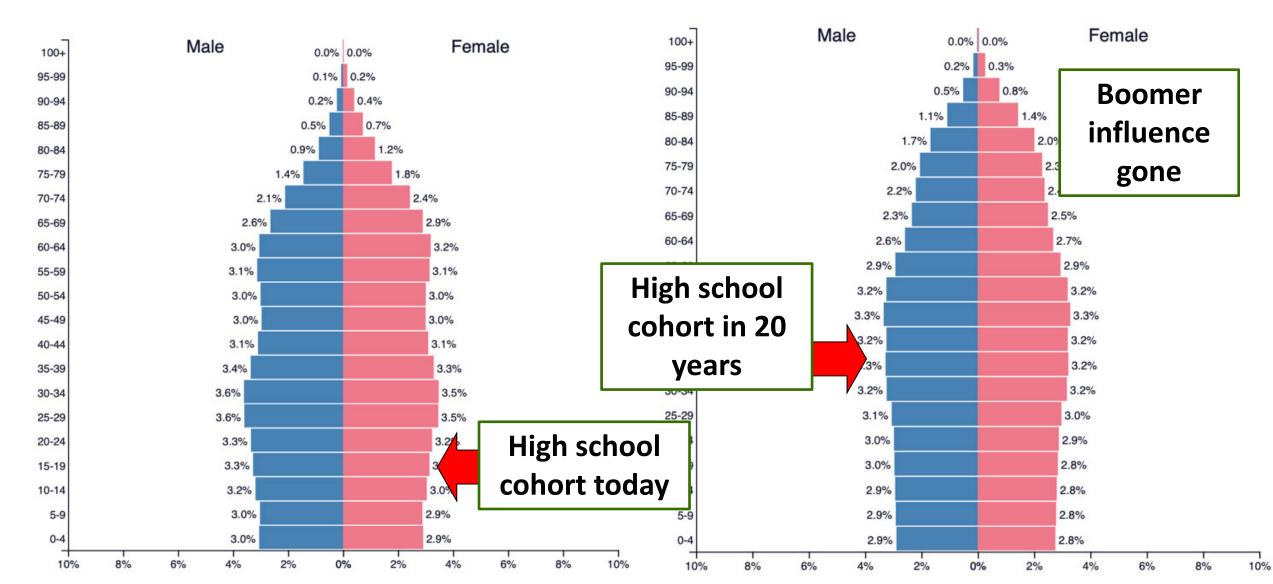
United States of America ▼ 2022

Population: **334,805,268**

United States of America ▼
2032 Population: 353,335,452

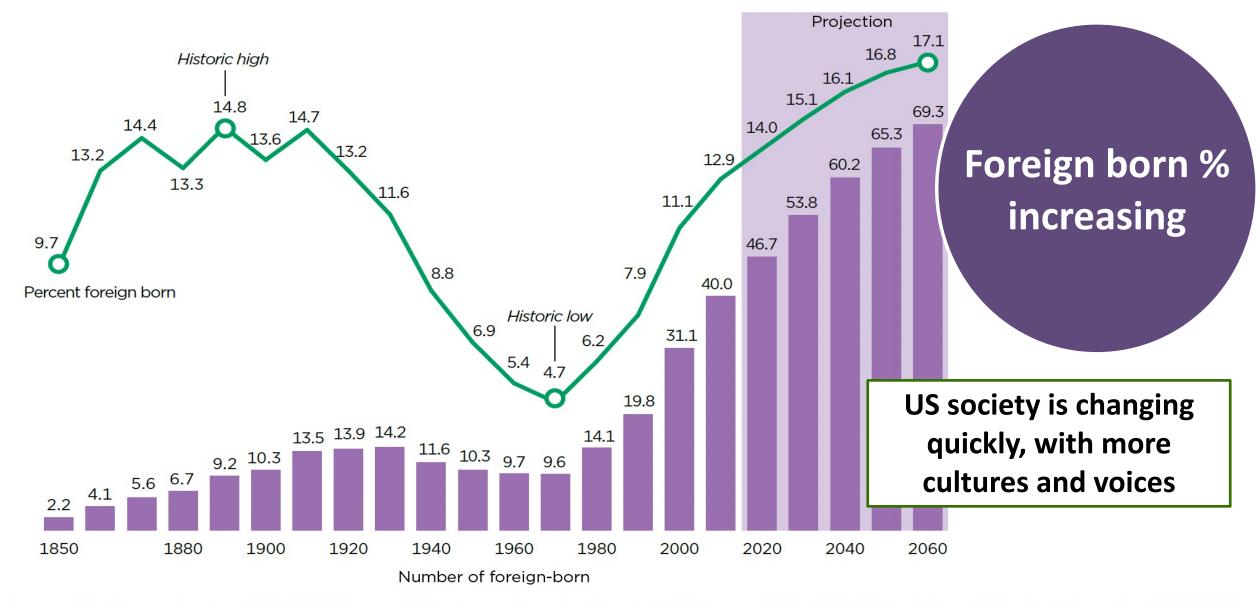


United States of America ▼ 2022 Population: 334,805,268 United States of America ▼ 2042 Population: 369,396,554



Foreign-Born People Living in the United States: 1850 to 2010, Projected 202 to 2060

By 2028, the foreign-born share of the U.S. population is projected to be higher than at any time since 1850.



Source: U.S. Census Bureau, 1850-2000 Decennial Censuses, American Community Survey 2010, 2017 National Population Projections for 2020-2060.





Predictions and observations

- Generational change is coming which will trigger widespread upheaval of norms.
- People and industries will continue to cluster around mega-cities, in specialized cities and regional centers.

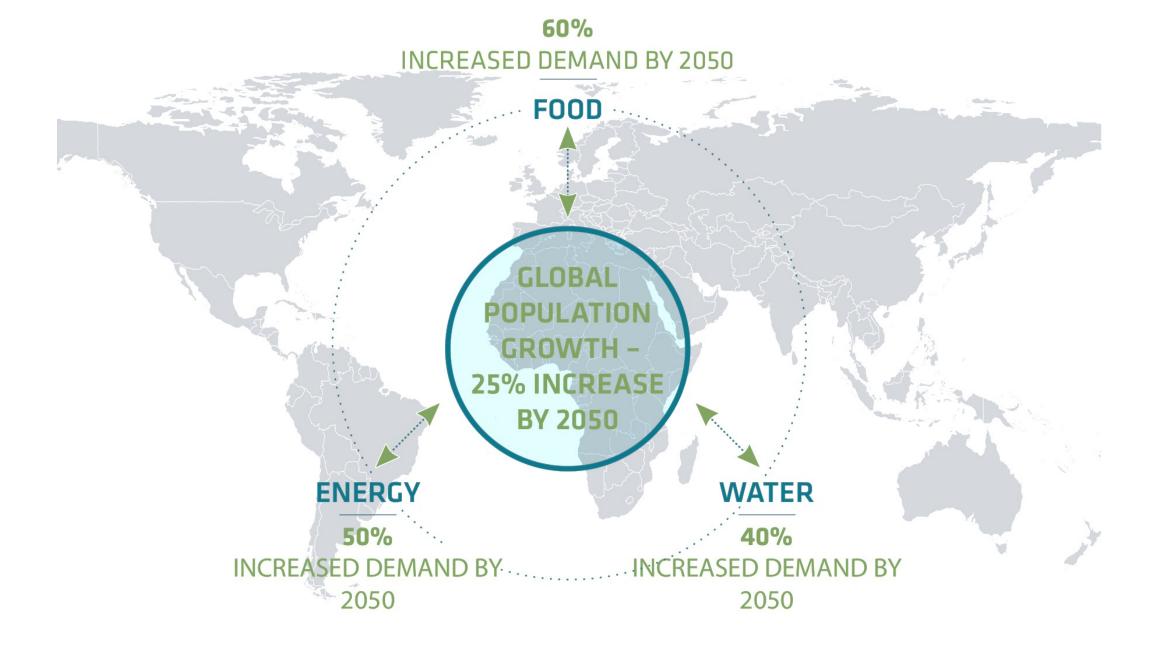
Demographic + Population + Mass Urbanization

What does this mean for the the future of the City of Essex Junction?





Energy + Water + Food + Climate Change



Renewable Energy

Potential for unlimited cheap energy

Electrification of the world is accelerating, driven by renewable energy

FRESH WATER

- Nearly 450 million people in 29 countries now face severe water shortages
- As much as 2/3 of the world population could be water-stressed by 2025
- Half the world's rivers and lakes are seriously polluted

- Irrigation uses 70% of the world's fresh water
- Water scarcity will be the chief constraint to increased food production
- The threat to water resources stands as one of the major crises facing the planet



2 BILLION

PEOPLE DON'T GET ENOUGH VITAMINS AND MINERALS

795 MILLION

PEOPLE DON'T GET ENOUGH CALORIES

161 MILLION

CHILDREN ARE CHRONICALLY UNDERNOURISHED

WE HAVE A BIG PROBLEM WITH UNDERNUTRITION

OVERWEIGHT & OBESITY

1.9 BILLION

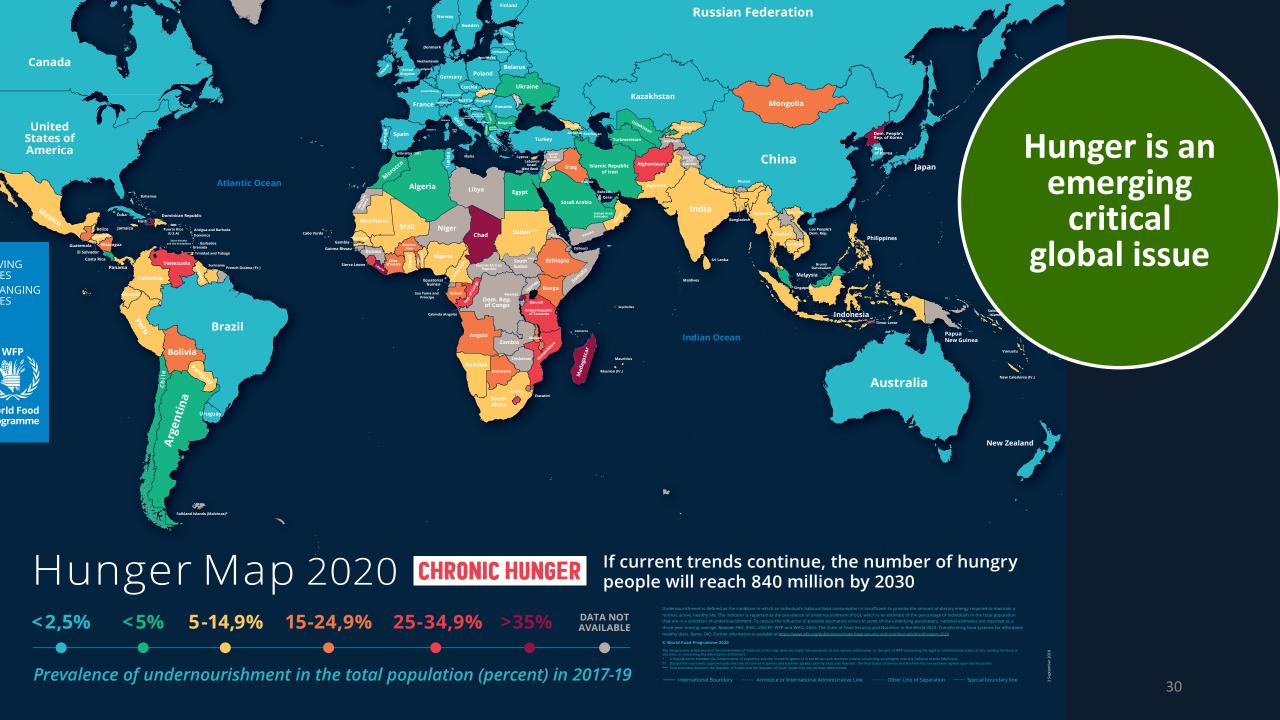
ADULTS ARE OVERWHEIGHT OR OBESE

1 in 12

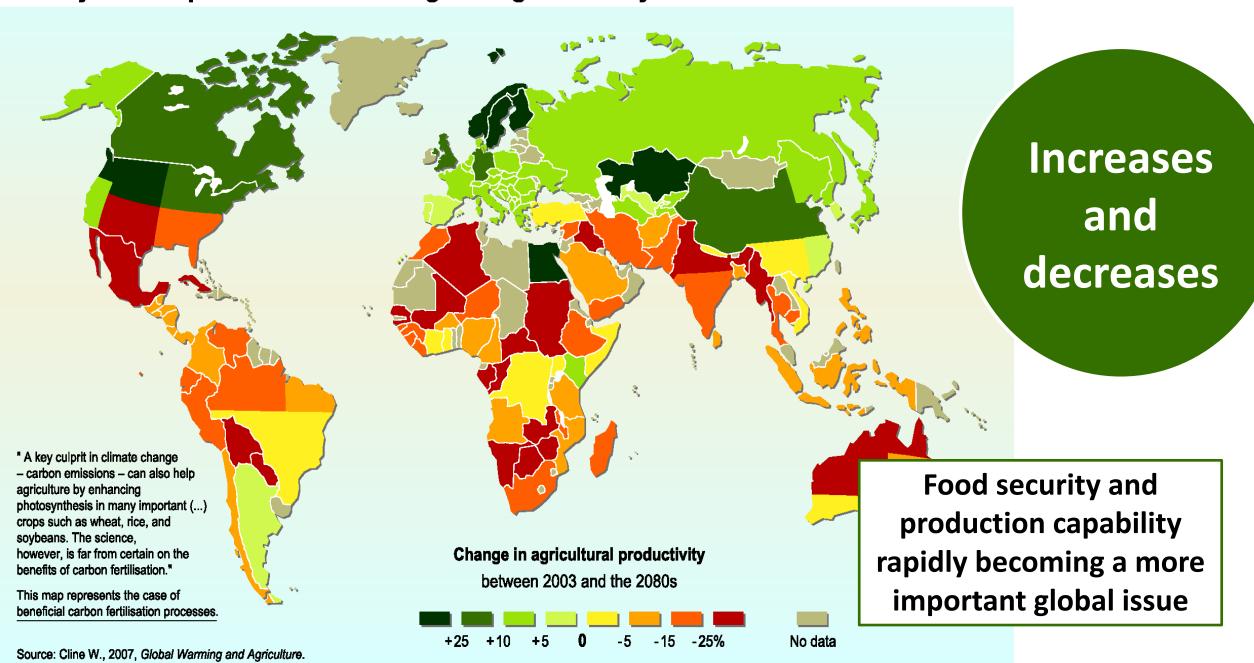
ADULTS HAVE DIABETES

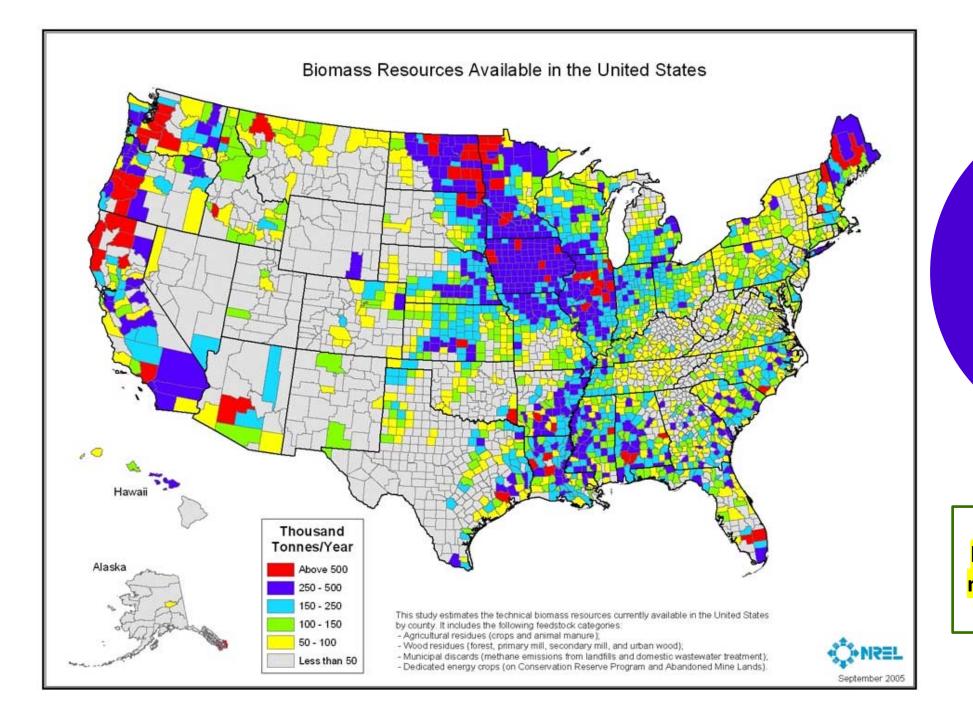
42 MILLION

CHILDREN ARE OVERWEIGHT



Projected impact of climate change on agricultural yields

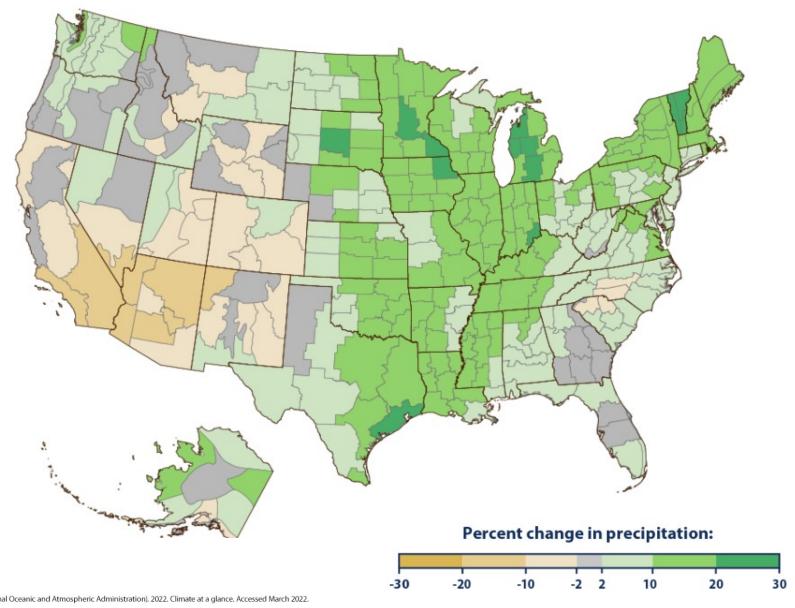






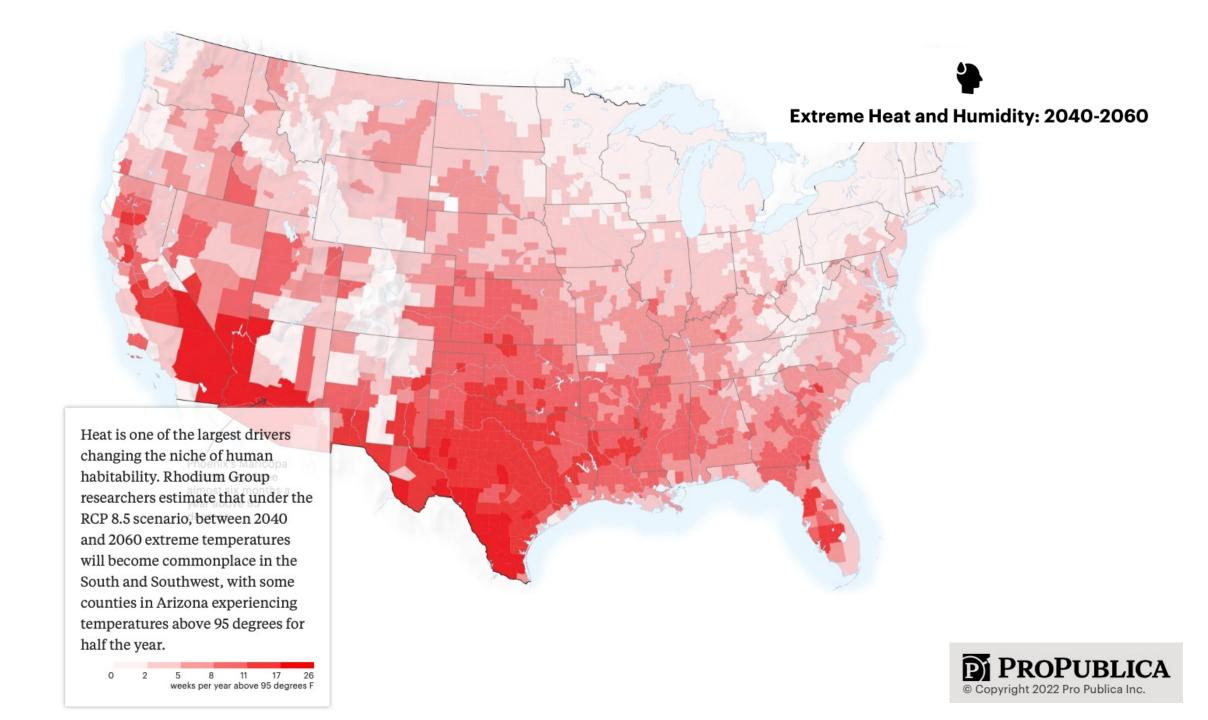
Upper Midwest
bioeconomy likely to be
more globally significant
over coming decades

Change in Precipitation in the United States, 1901–2021



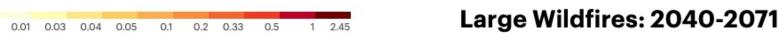
Data source: NOAA (National Oceanic and Atmospheric Administration). 2022. Climate at a glance. Accessed March 2022. www.ncdc.noaa.gov/cag.

Alaska data start in 1925.

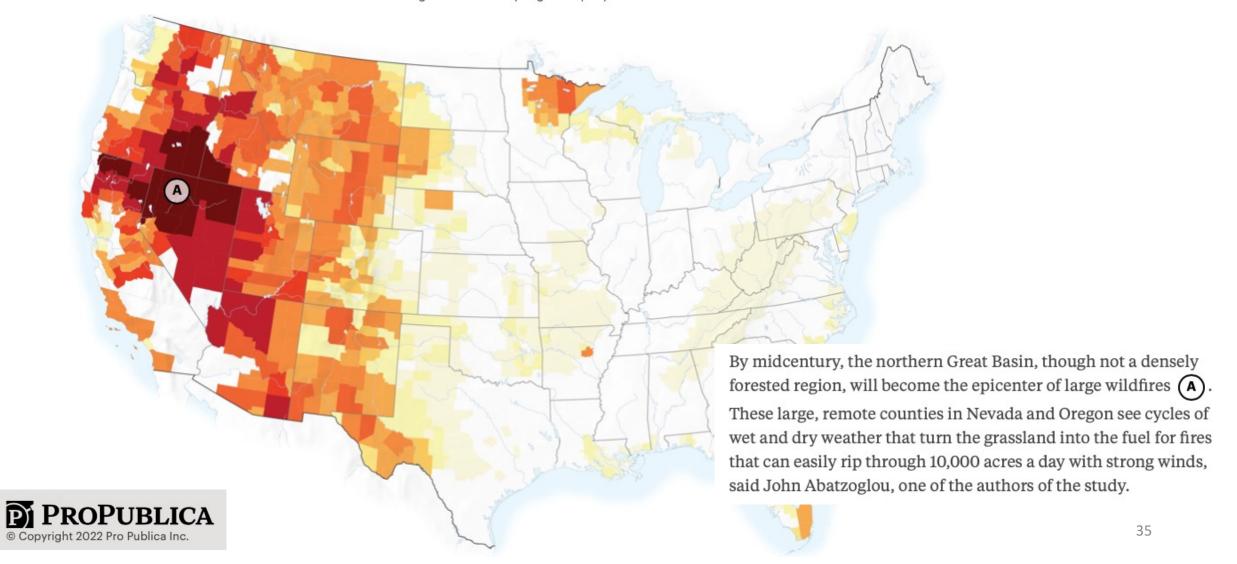


High Emissions





Average number of very large fires per year





Moderate Emissions



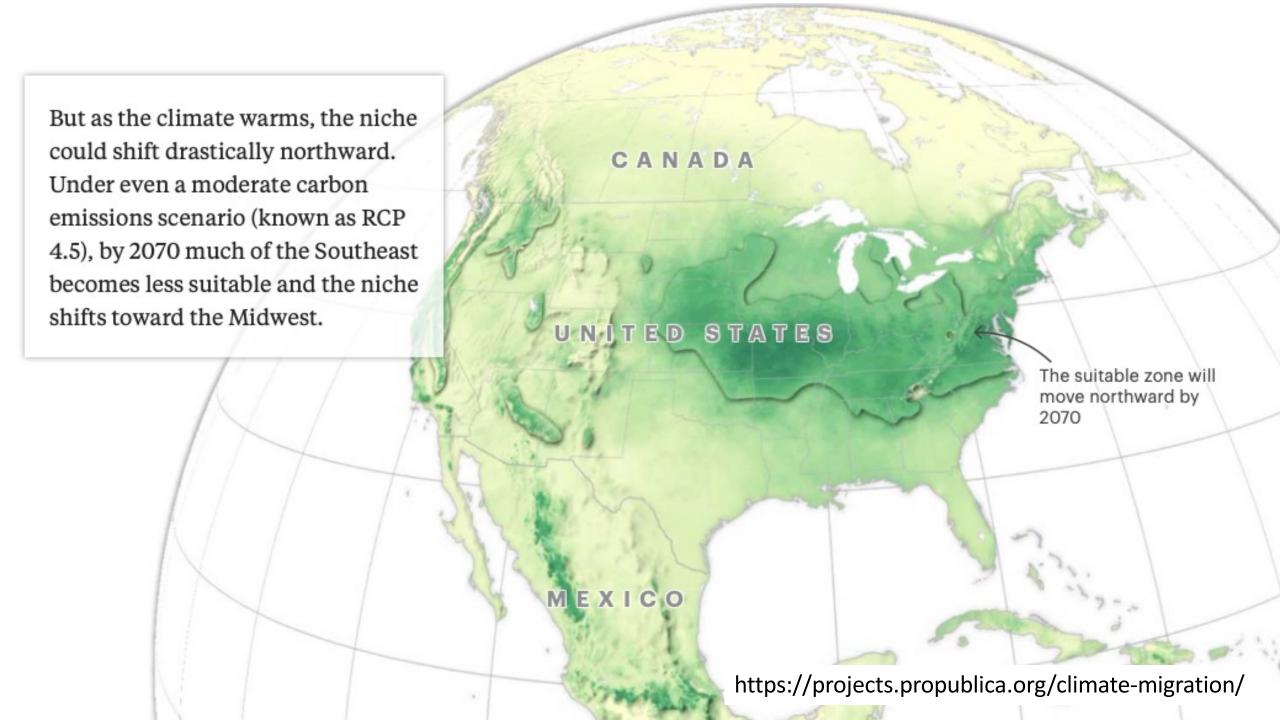
Sea Level Rise: 2040-2060

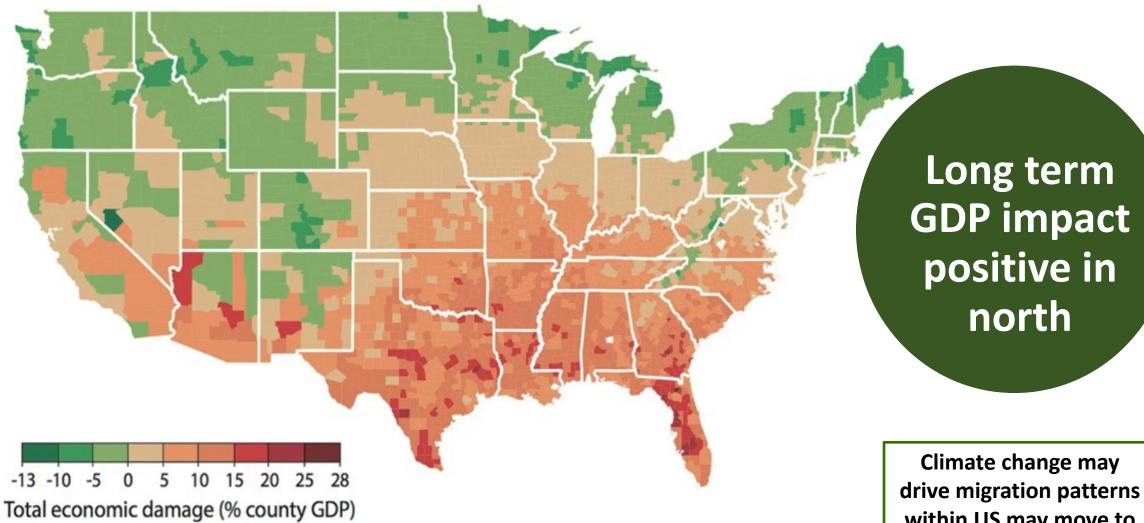
Some 50 million Americans live in eight of the largest U.S. metro areas — Miami (A), New York (B) and Boston (C) among them — which all lie in some of the most affected counties in the











Potential economic damages are shown at the county level in a scenario in which emissions of greenhouse gases continue at current rates. Green indicates areas that could see economic benefits. To see an interactive version of this map, click here.

Hsiang, Kopp, Jina, Rising, et al./Science

within US may move to 'north', and from 'west to center'



Predictions and observations

- Growing disconnect between where food / fiber will be consumed, and where it can be grown.
- 'Northern slice' poised to capitalize on intersect of water, energy and biomass / food production capability.
- New migration patterns are emerging

Food, Energy, Water and Climate Change

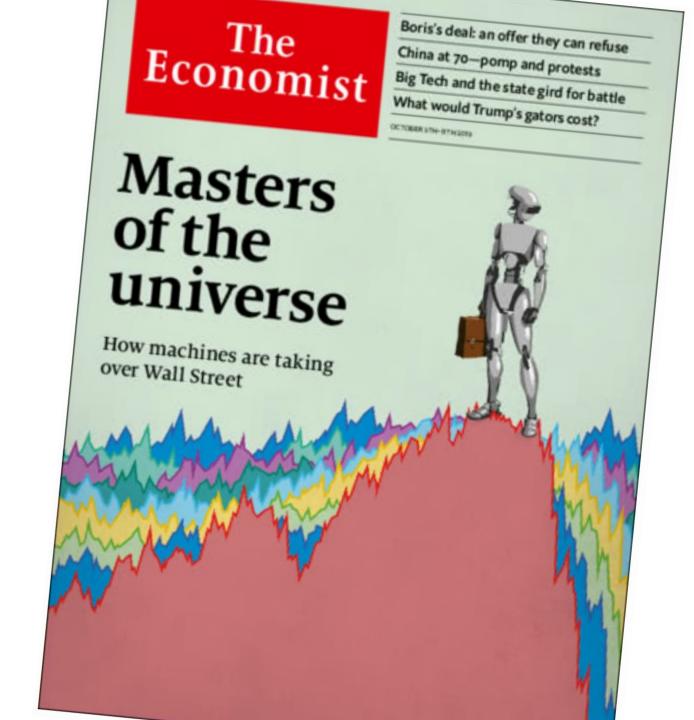
What do these trends mean for the the future of the City of Essex Junction?



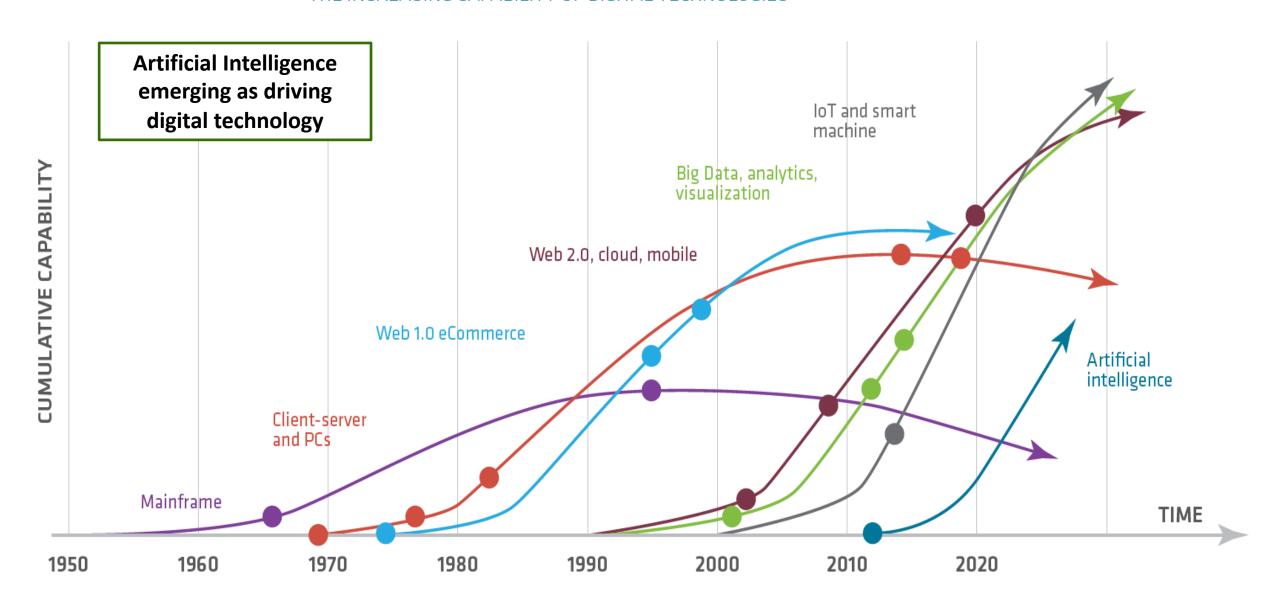
Technology and the speed of change



Create Future Intelligence™



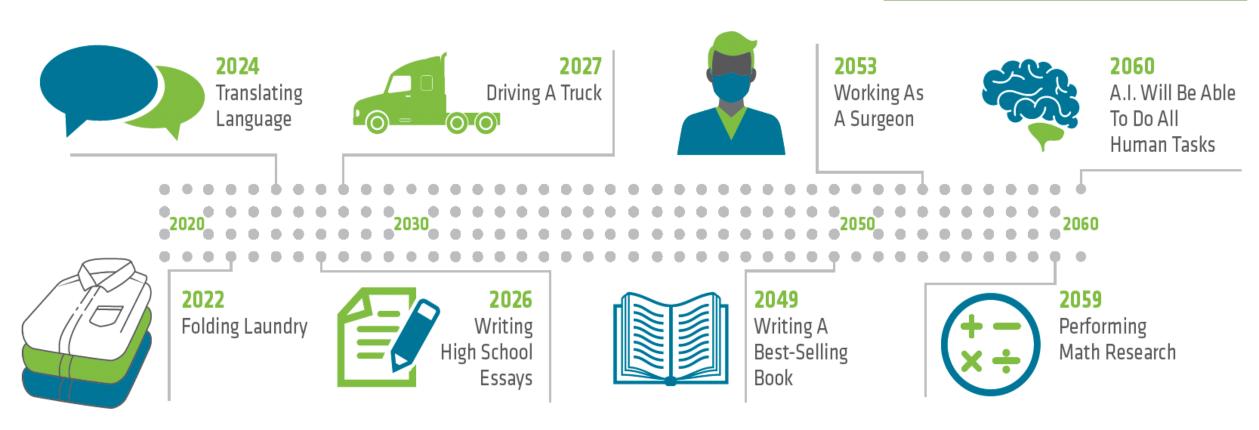
THE INCREASING CAPABILITY OF DIGITAL TECHNOLOGIES



When will Al outperform people?

Al is reshaping our lives and industries – right now

AI WILL LIKELY OUTPERFORM HUMANS AT...



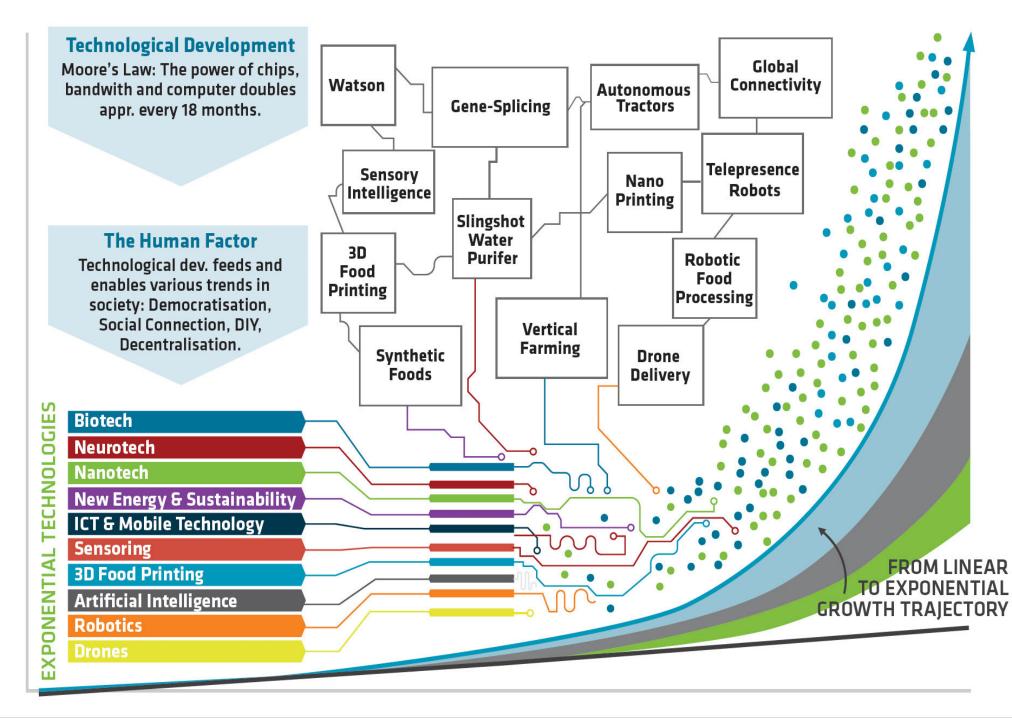
Source: 'You Will Lose Your Job to a Robot–and Sooner Than You Think'. Kevin Drum, Mother Jones, November / December Issue, 2017. (adapted from 'When will AI exceed human performance? Evidence from AI Experts', Oxford and Yale University 2017) 112

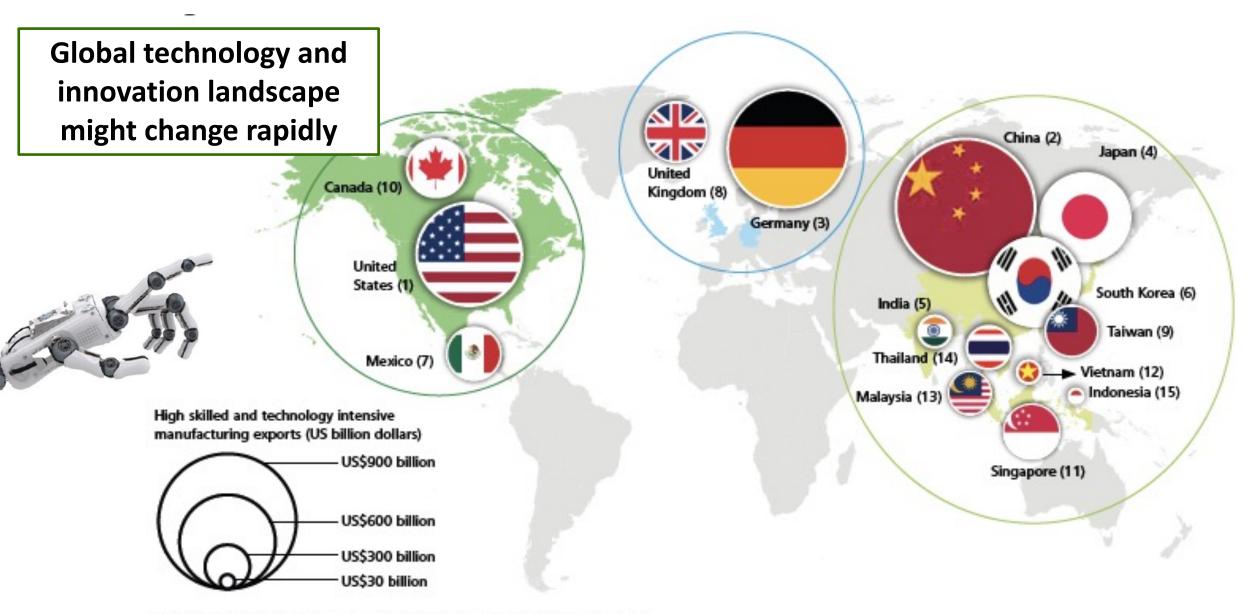


Rapid systemic change and technology integration

SPEED OF TECHNOLOGICAL CHA

Adapted from: Source: Deloitte. 2014. Industry 4.0 Challenges and solutions for the digital transformation and use of exponential technologies





Note: Figure in parenthesis represent the projected 2020 GMCI rank by CEOs

Source: Deloitte Touche Tohmatsu Limited and US Council on Competitiveness, 2016 Global Manufacturing Competitiveness Index, Deloitte analysis based on UNCTAD data¹⁰

Technology and speed of change

- Waves of disruption and technology are reshaping education, industries and manufacturing
- Speed of change is exponential



Demographics + Resources + Technology

What do these trends mean for the future of the City of Essex Junction?



City of Essex Junction Vision and Strategic Action Plan

Think-Tank Part 1

Stakeholder Survey #1



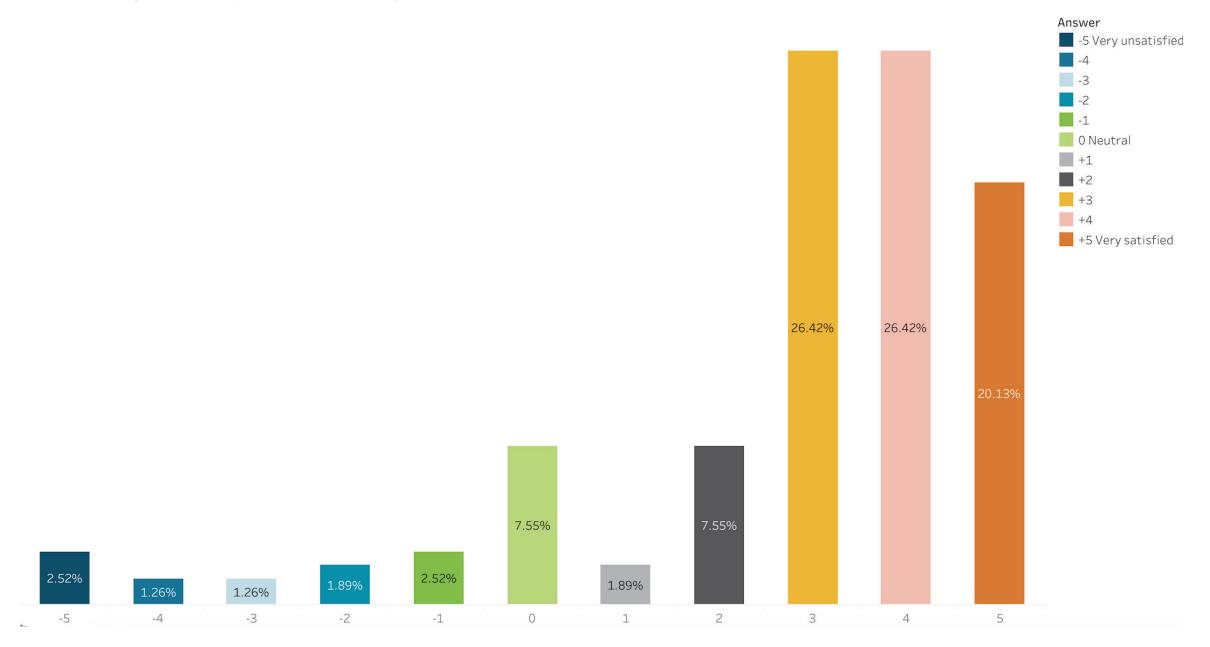






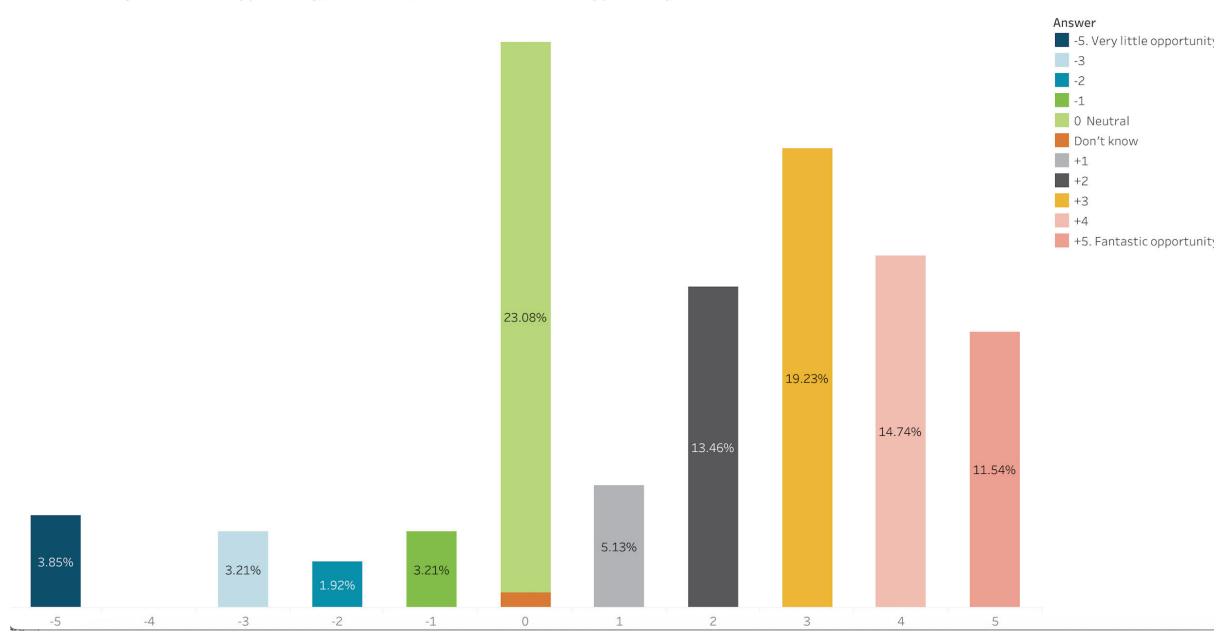


SCALE: -5 = Very unsatisfied; 0 = Neutral; +5 = Very satisfied



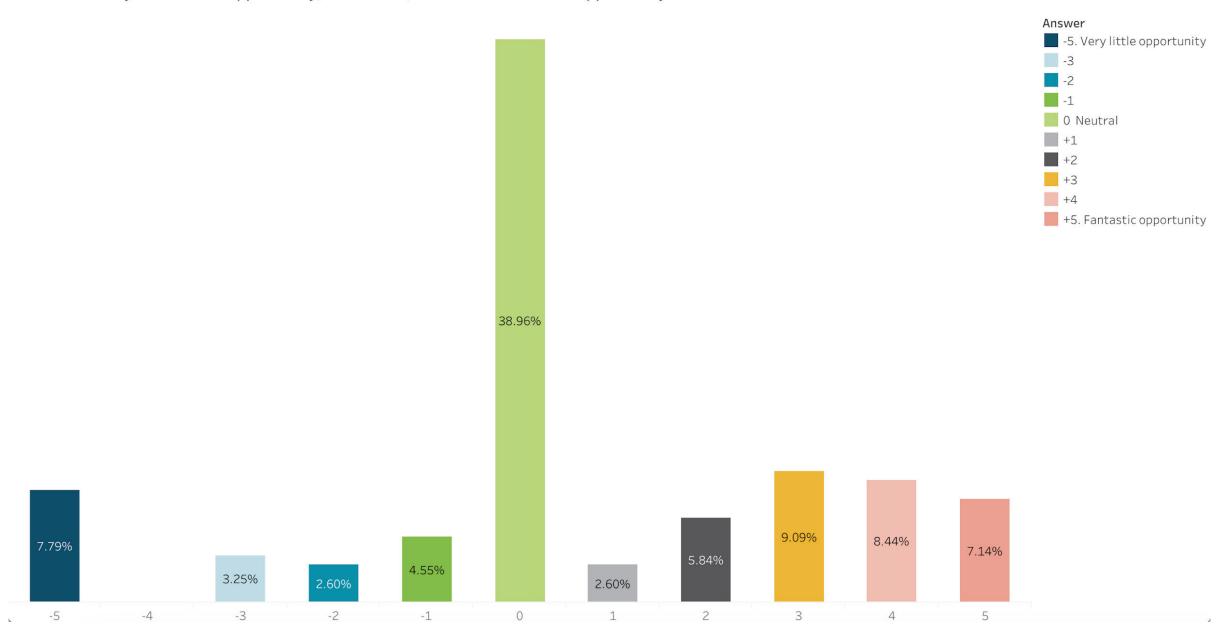
Do you think the City of Essex Junction offers you future opportunities to grow and thrive in your life and interests?

SCALE: -5 = Very little future opportunity; 0 = Neutral; +5 = Fantastic future opportunity



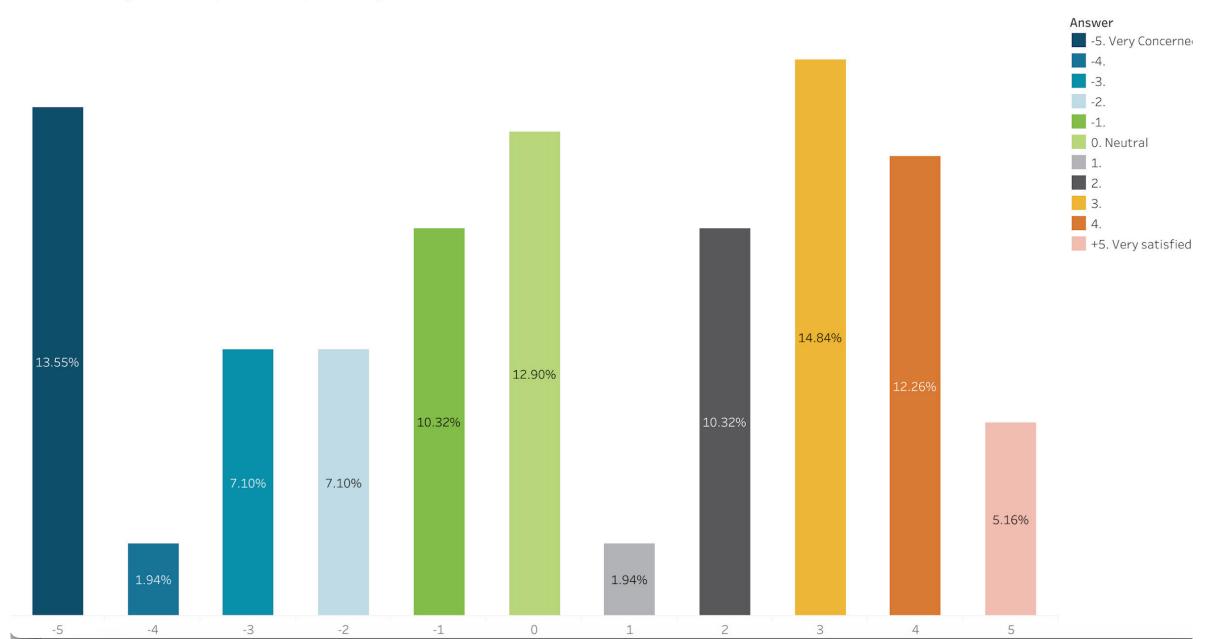
Do you think the City of Essex Junction offers you future opportunities to grow and thrive in your career and/or business?

SCALE: -5 = Very little future opportunity; 0 = Neutral; +5 = Fantastic future opportunity



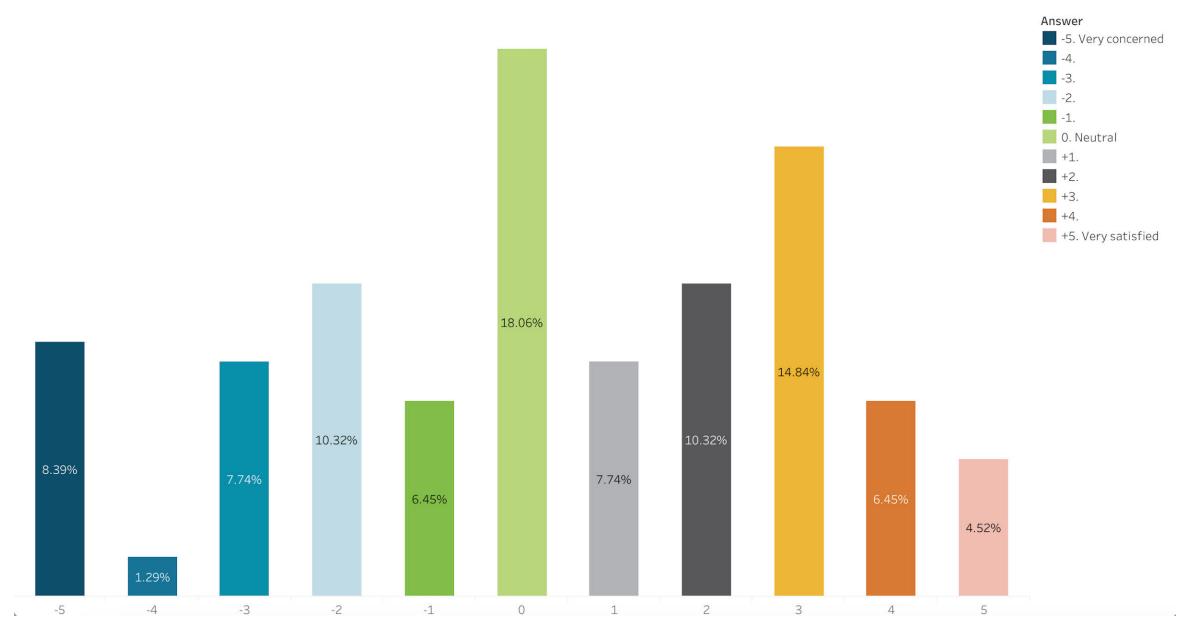
CURRENT DIRECTION - How satisfied or concerned are you about the way the City of Essex Junction is changing and the overall current direction of the City of Essex Junction?

SCALE: -5= Very concerned; 0=Neutral; +5 = Very satisfied



CURRENT ABILITY TO ADAPT – How satisfied or concerned are you about the ability of the City of Essex Junction to adapt to changes?

SCALE: - 5 = Very concerned; 0 = Neutral; +5 Very satisfied







City of Essex Junction Vision and Strategic Action Plan

IDENTIFYING KEY DRIVERS











Key Drivers:

What key drivers do you think are most important for the future of the City of Essex Junction?

(Key drivers are events, trends, developments, catalysts or forces that actively influence or cause change.)

Table brainstorm



City of Essex Junction Vision & Strategic Action Plan

KEY DRIVERS HANDOUT

Think-Tank Workshop Day 1

November 2, 2023

What are the most important KEY DRIVERS shaping the future of the City of Essex Junction?

(Key drivers are events, trends, developments, catalysts, or forces that actively influence or cause change.)

1

2.

Table brainstorm key drivers

3

Key Drivers

1. xx 11. xx



City of Essex Junction Vision & Strategic Action Plan

KEY DRIVERS HANDOUT

Think-Tank Workshop Day 1

November 2, 2023

DRIVER NAME:

Key emergent high-level trends associated with this driver:

1

2

Building an understanding of each driver

What is the big "FUTURE-SPLITTING QUESTION" for this driver?

Future predictions - how impacts may "play out" for this driver over the next decade:

1

2.

Building an understanding of each driver





City of Essex Junction Vision and Strategic Action Plan

RANKING KEY DRIVERS













City of Essex Junction Vision & Strategic Action Plan

KEY DRIVERS HANDOUT

Think-Tank Workshop Day 1

November 2, 2023

Rate each driver in terms of likely future impacts on the following dimensions for Essex Junction.

IMPACT SCALE: 1 = Low relative future impact; 10 = Very high relative future impact

	Dimensions				
Driver	Overall economic size and relative performance	Adaptability and resilience of the economy	Social fabric and cohesion	Quality of life and opportunity	
1					
2					
3				S	coring future impact
4					of each driver –
5					individual scoring
6					
7					
8					



City of Essex Junction Vision and Strategic Action Plan



THINK TANK PART 2











Essex Junction Think-Tank Part 1

November 2, 5:00pm - 8:00pm

Location: Blue Ribbon Pavilion, Champlain
Valley Exposition
105 Pearl Street, Essex Junction, Vermont
05452

Essex Junction Think-Tank Part 2

November 4, 9:00am - 12:00pm

Location: Blue Ribbon Pavilion, Champlain
Valley Exposition
105 Pearl Street, Essex Junction, Vermont
05452

