

Lorain County Strategic Action Plan Future Think-Tank PART 1















PROJECT OBJECTIVES

- Create 5-year Strategic Action Plan for Lorain County
- Extensive research/benchmarking with peer counties
- Robust community engagement and outreach
- Clarification to community of scope of services provided by Lorain County Government
- Identify needs and wants of Lorain County to be met by Lorain County Government





Project stages and opportunities to engage

Preferred Future Importance of **Exploring Future Strategic Positioning** and Roadmap **Future Thinking** Trends and Scenarios and Validating Project Portal Survey results • Topic focus groups Strategic insights Project promotion Think Tank • Community Survey #2 • Future Summit Community Survey #1 Countywide workshops Benchmark work Jan - Feb 2024 Aug – Dec 2023 Oct - Dec 2023 Mar – Apr 2024

Building understanding and insights into the future

Lorain County – 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







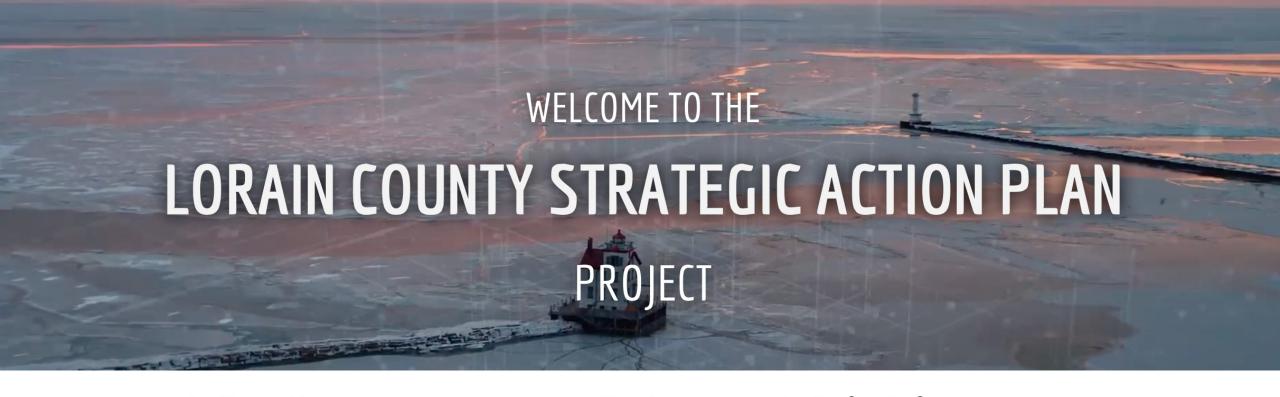








Key emerging trends shaping the future of Lorain County



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 . . .

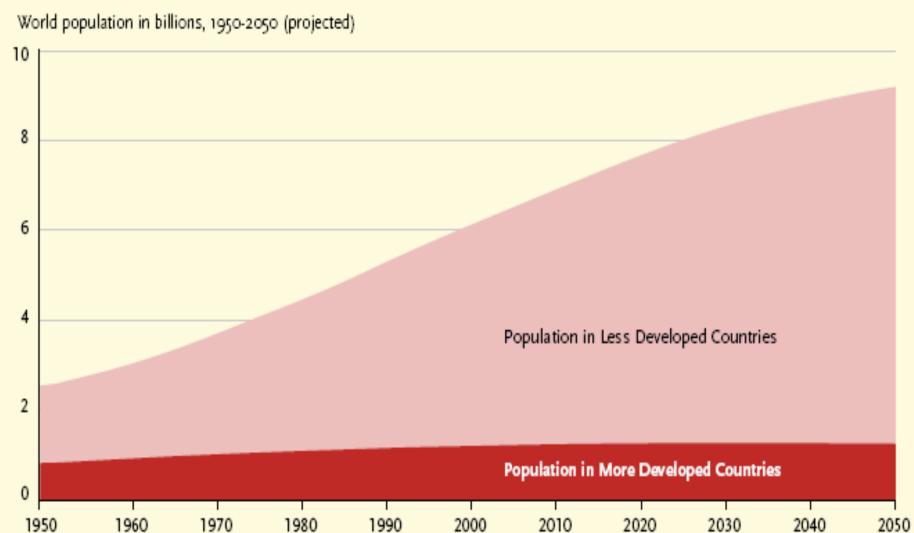
- Demographics, population and mass urbanization
- Energy, food, water & climate change
- Technology driving change



Demographics, population and mass urbanization

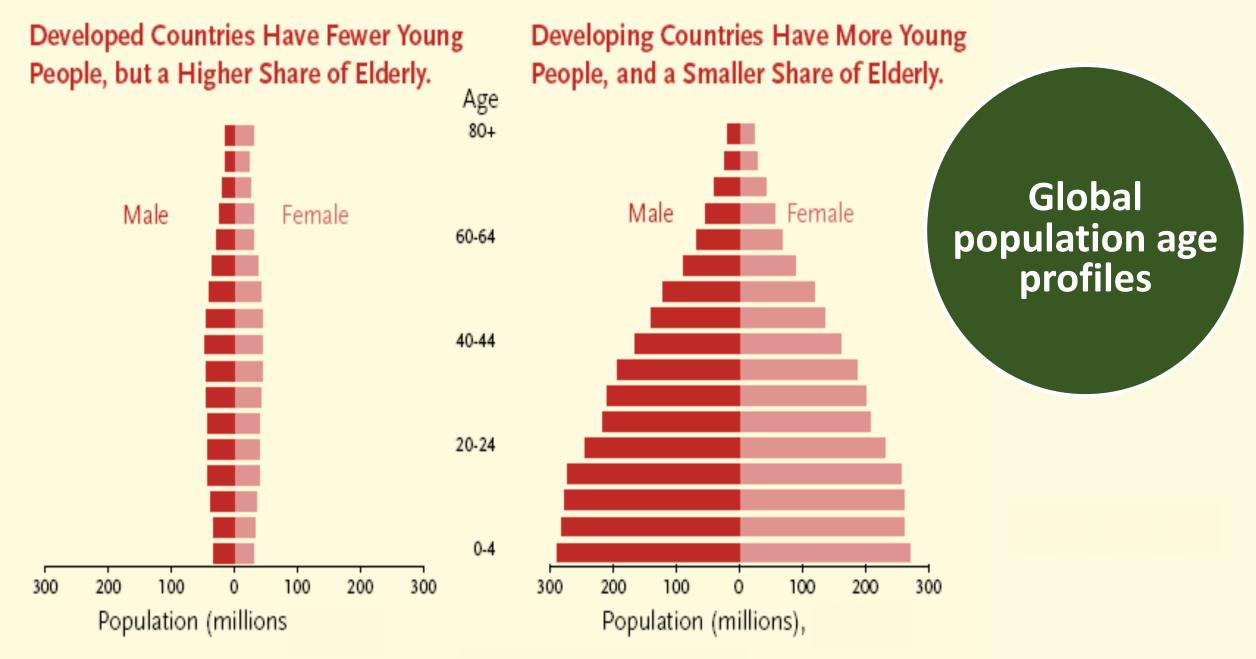
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Global Population Growth Is Driven By Developing Countries.

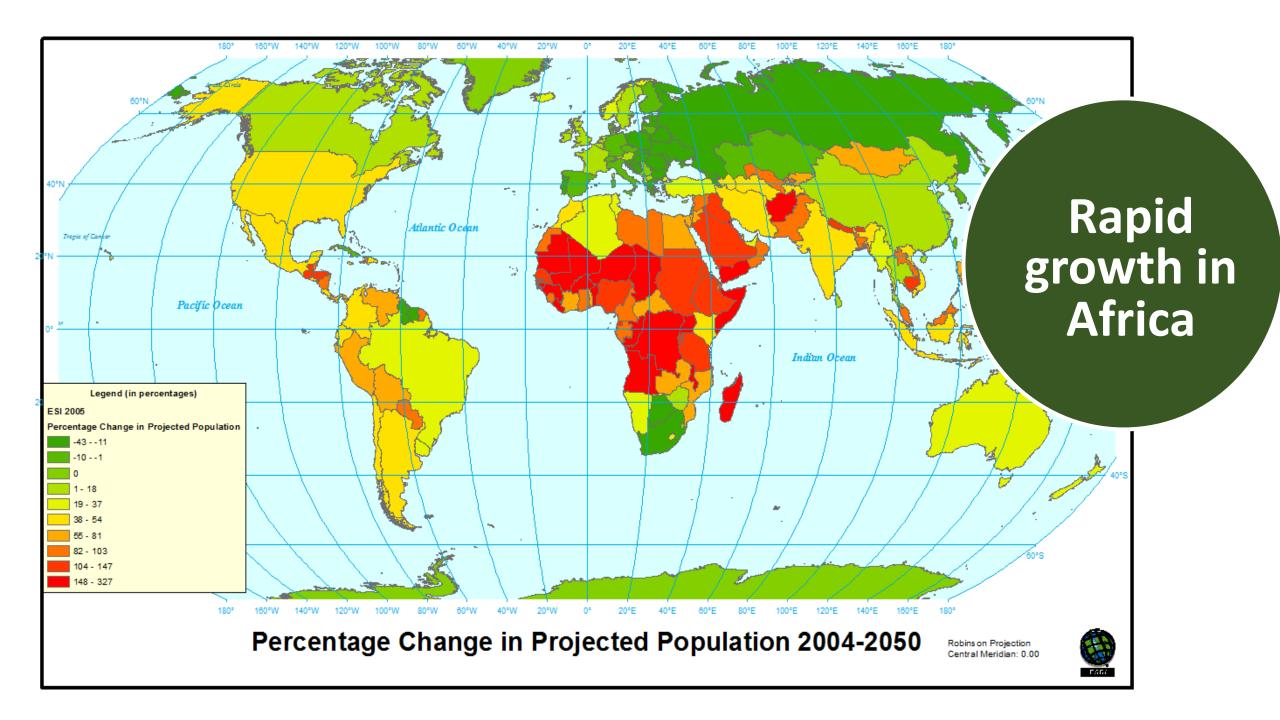




Source: United Nations, World Population Prospects:



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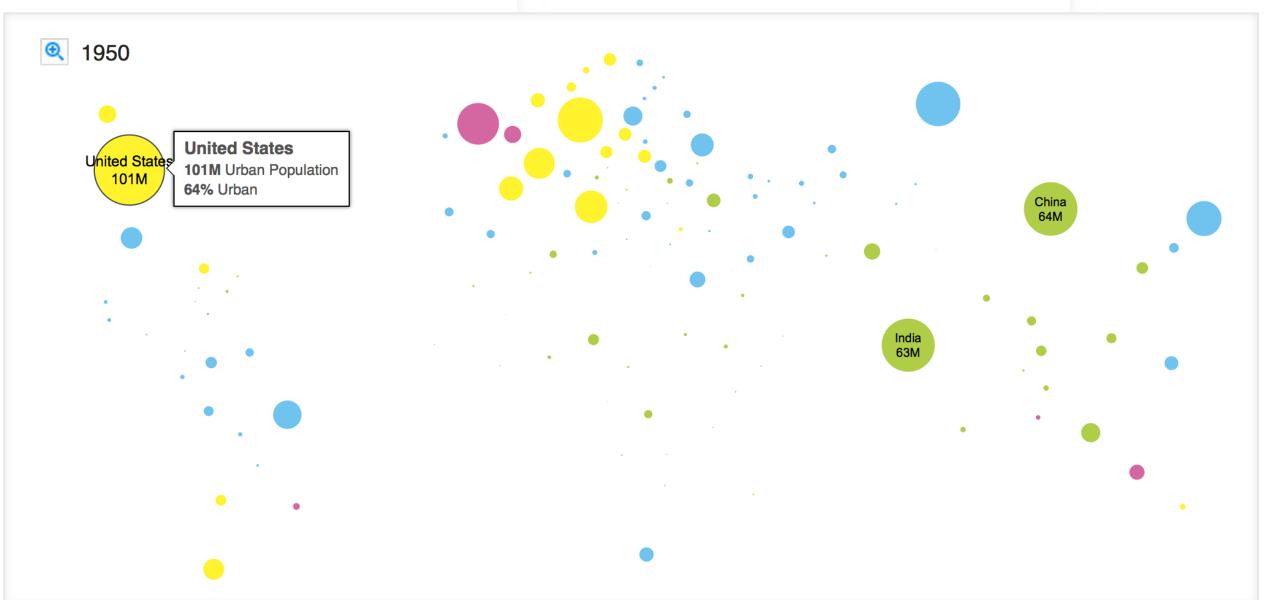


AN URBAN WORLD

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%



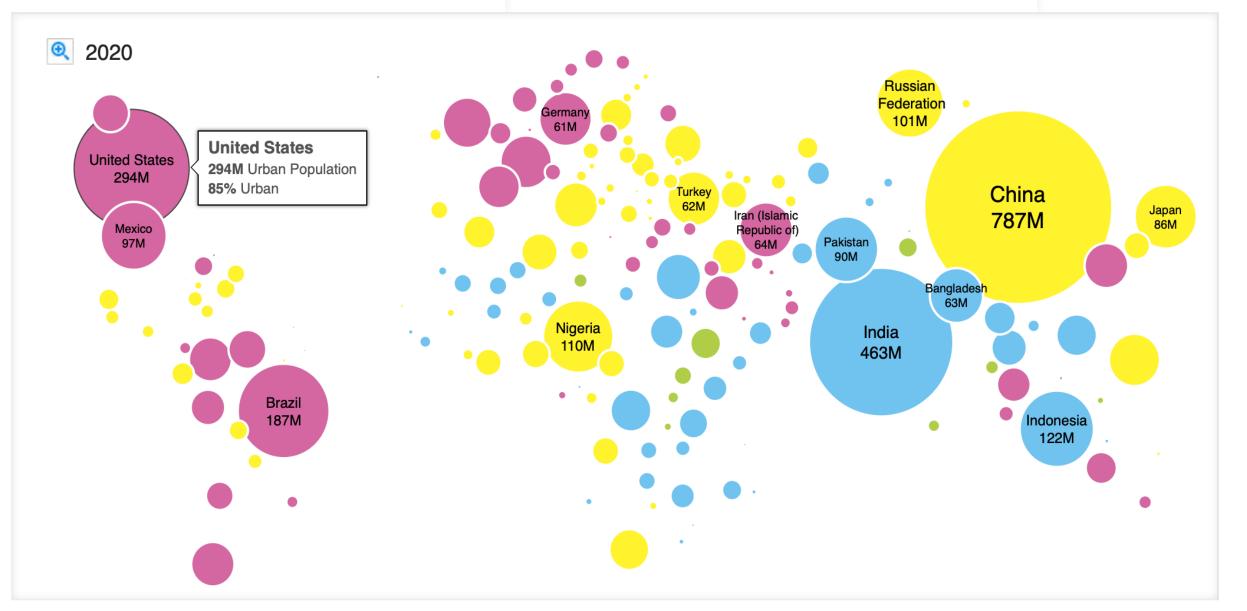


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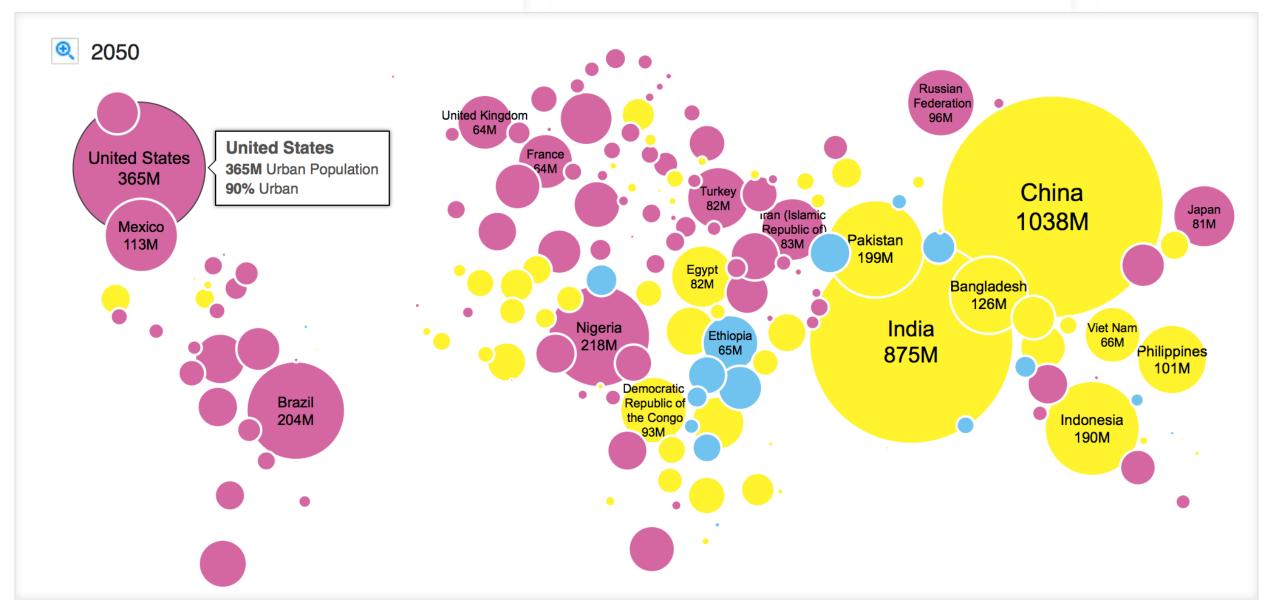


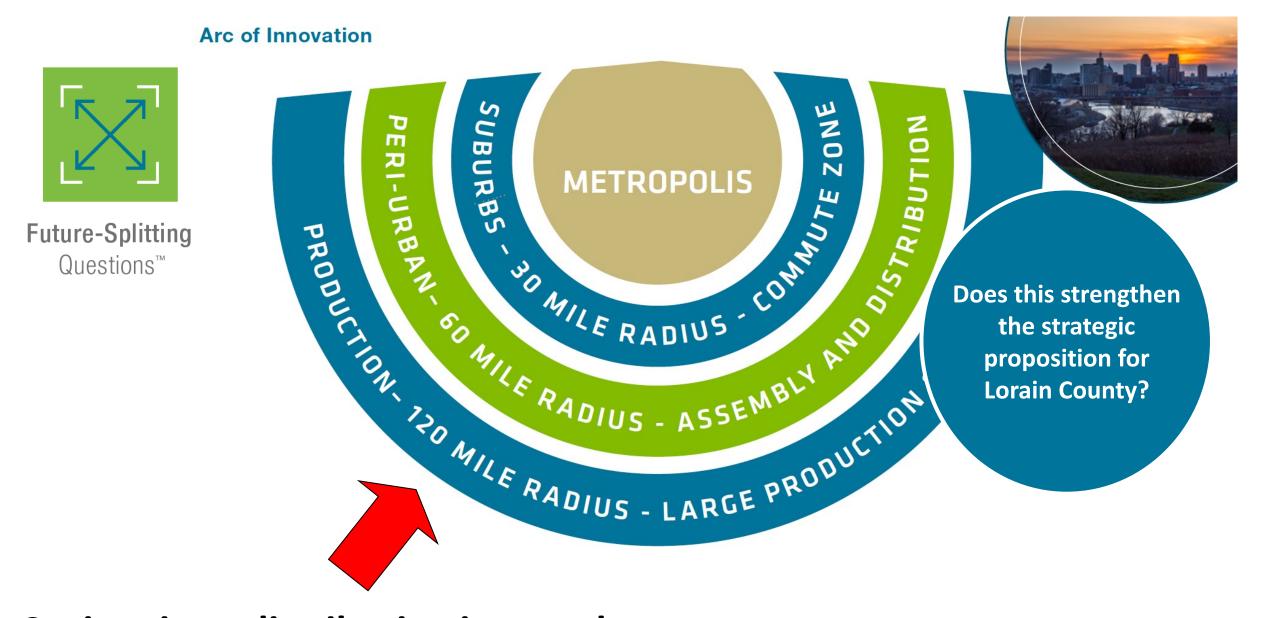
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Urban Population

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





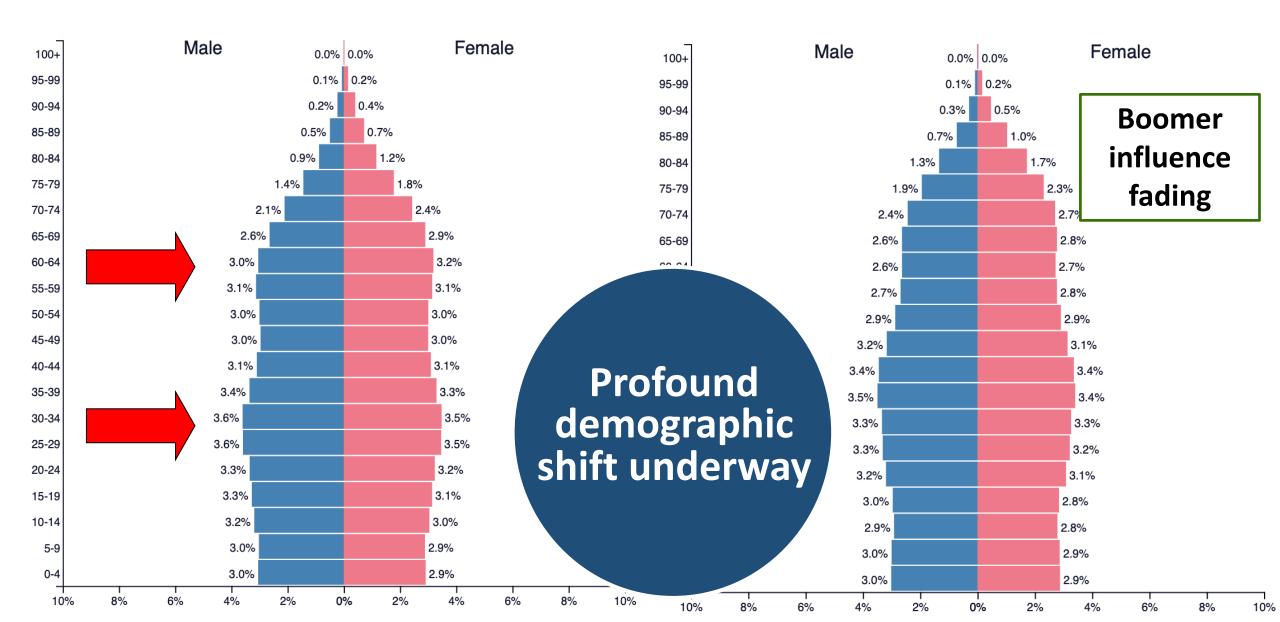
Society is re-distributing into and around mega-cities

United States of America ▼ 2022

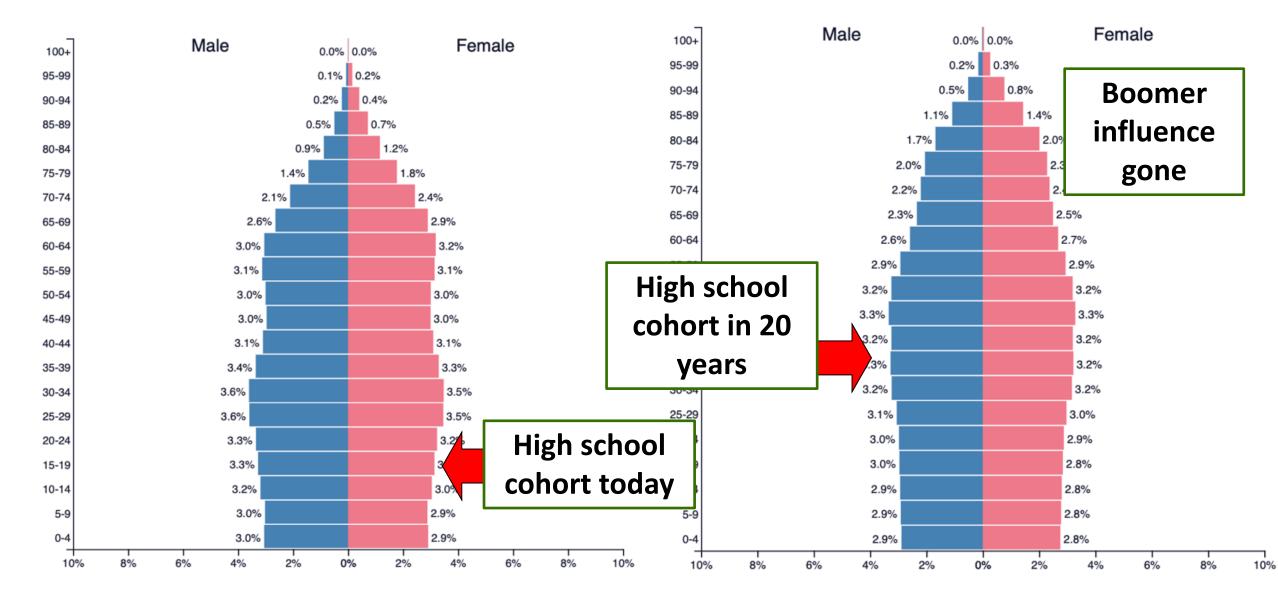
Population: **334,805,268**

United States of America ▼ 2032

Population: 353,335,452

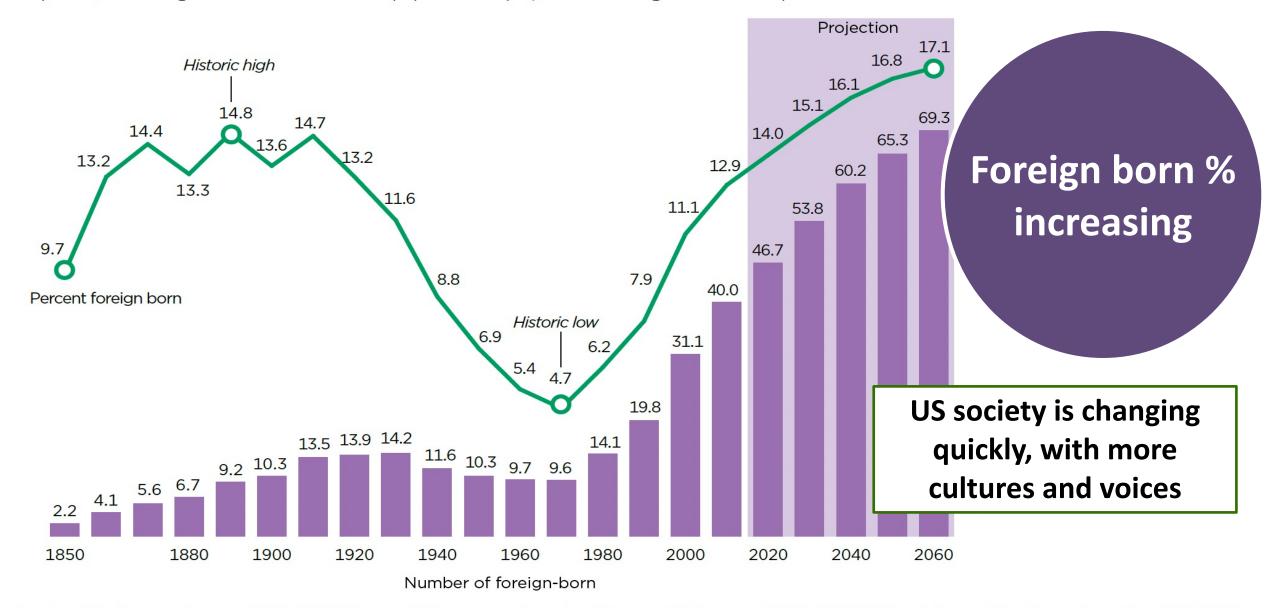


United States of America ▼ 2022 Population: 334,805,268 United States of America ▼ 2042 Population: 369,396,554



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 Lorain County?



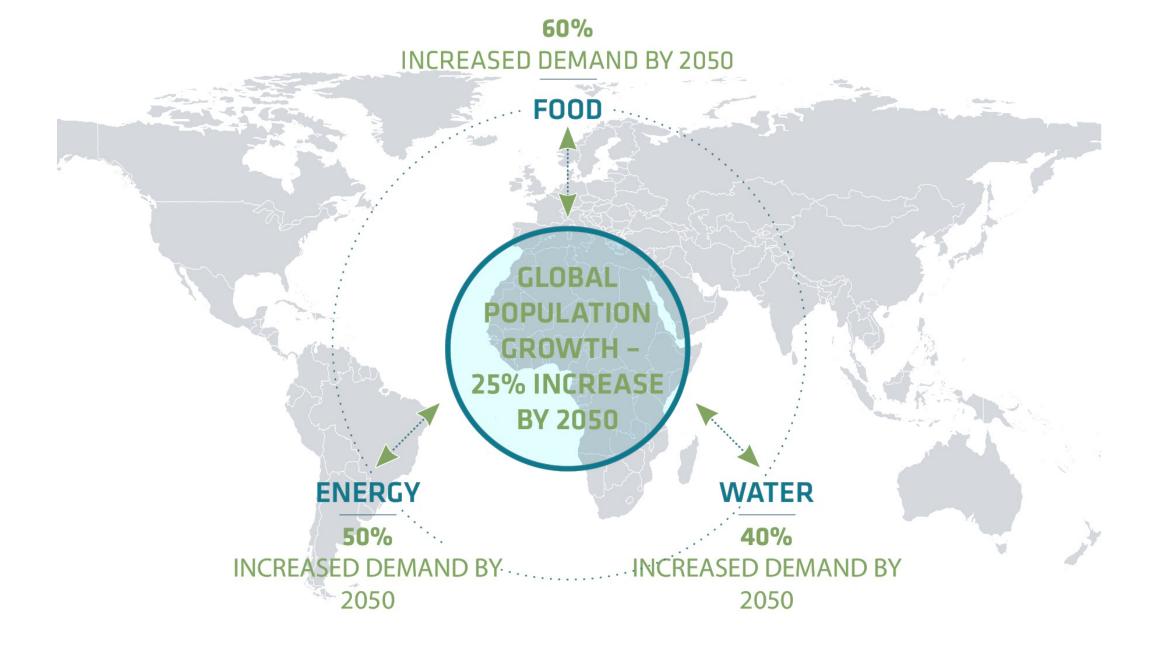


Energy + Water + Food + Climate Change









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

OVERWEIGHT & OBESITY

WE HAVE A BIG PROBLEM WITH UNDERNUTRITION

1.9 BILLION

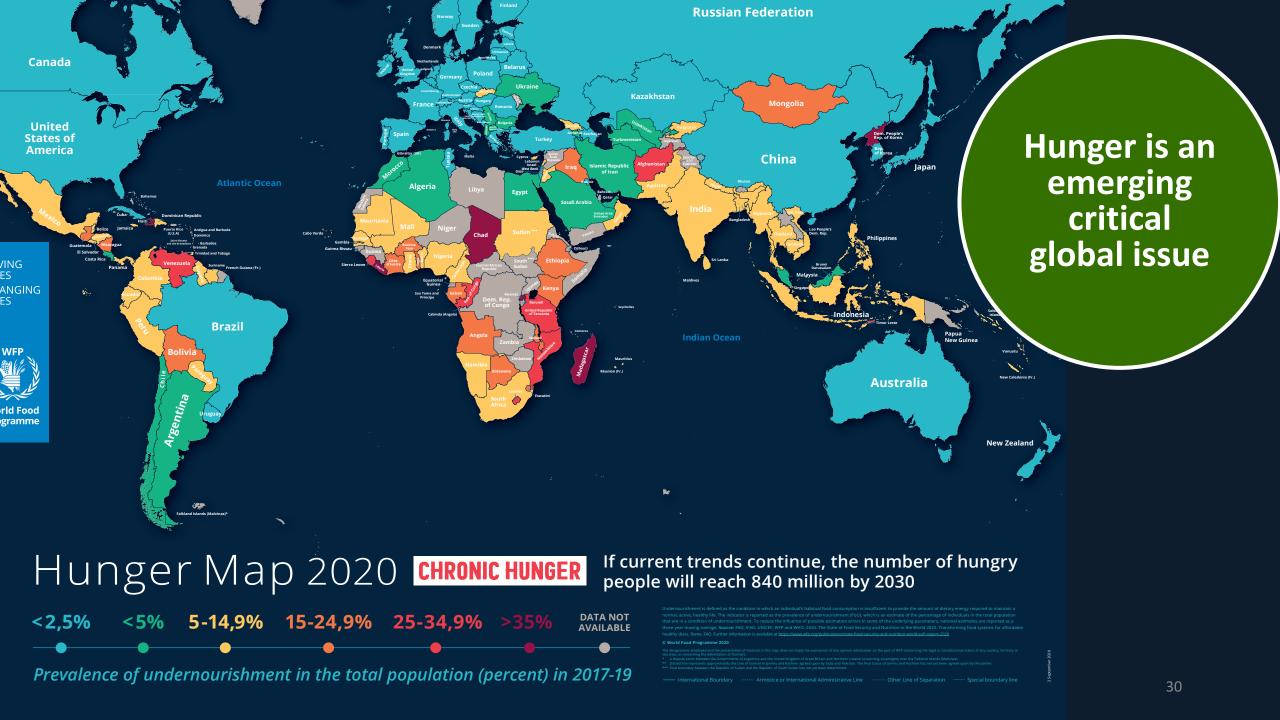
ADULTS ARE OVERWHEIGHT OR OBESE

1 in 12

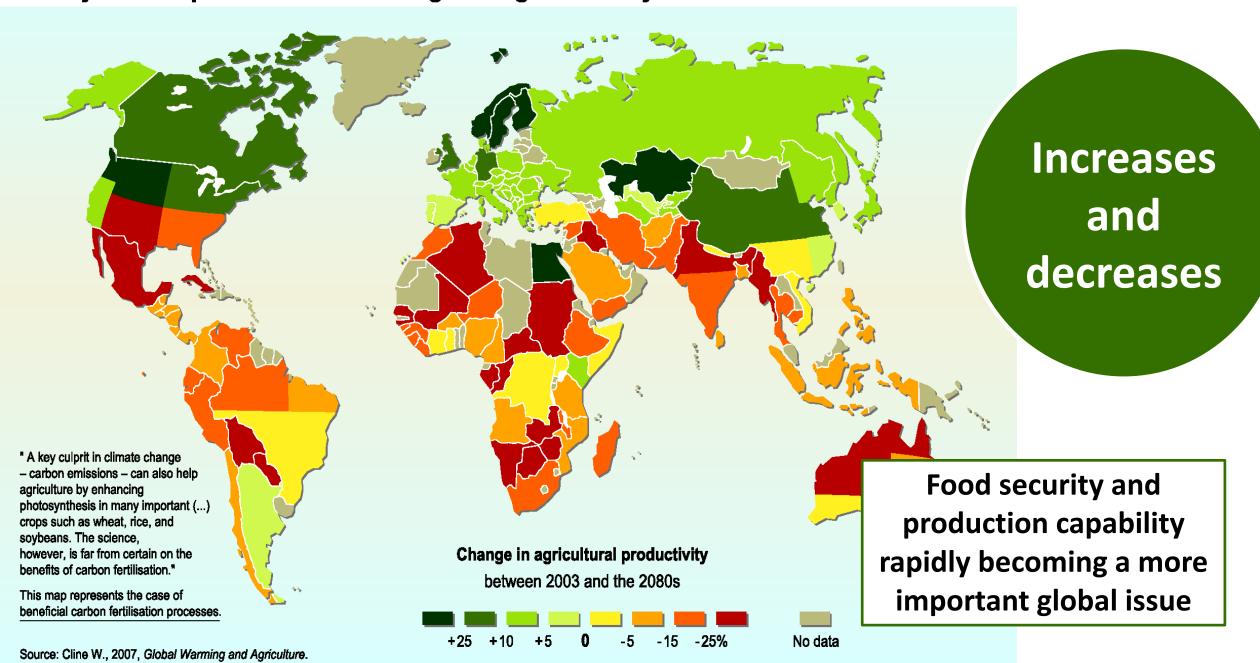
ADULTS HAVE DIABETES

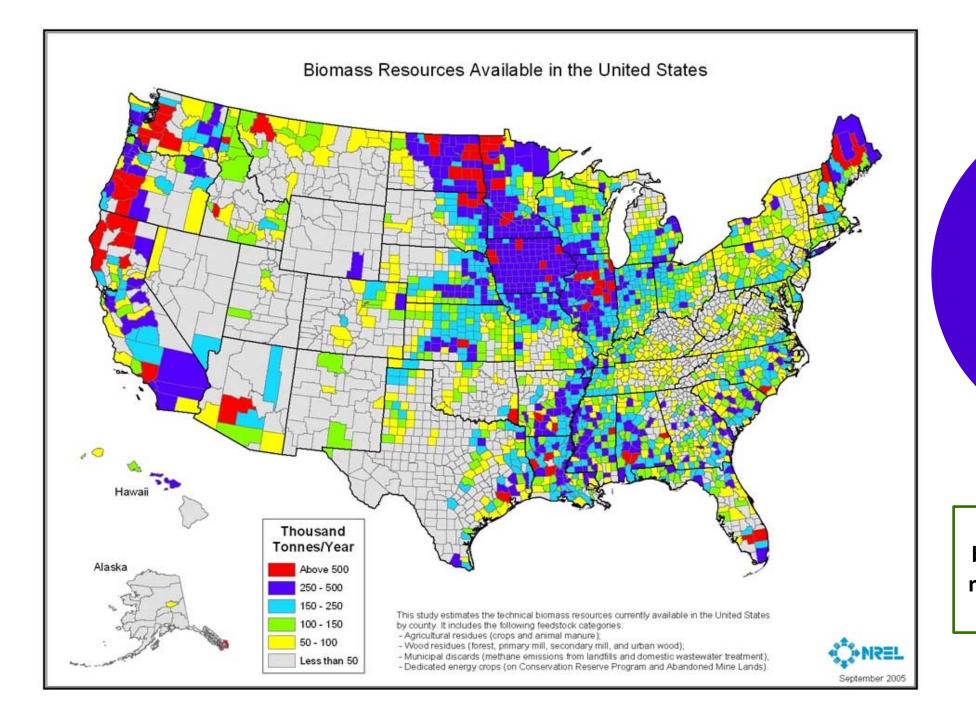
42 MILLION

CHILDREN ARE OVERWEIGHT



Projected impact of climate change on agricultural yields



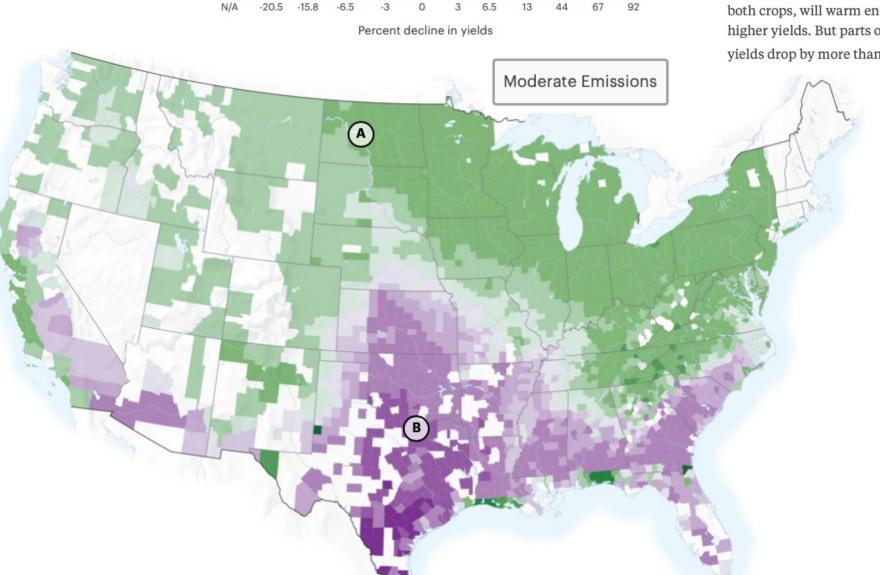




Upper Midwest bioeconomy likely to be more globally significant over coming decades

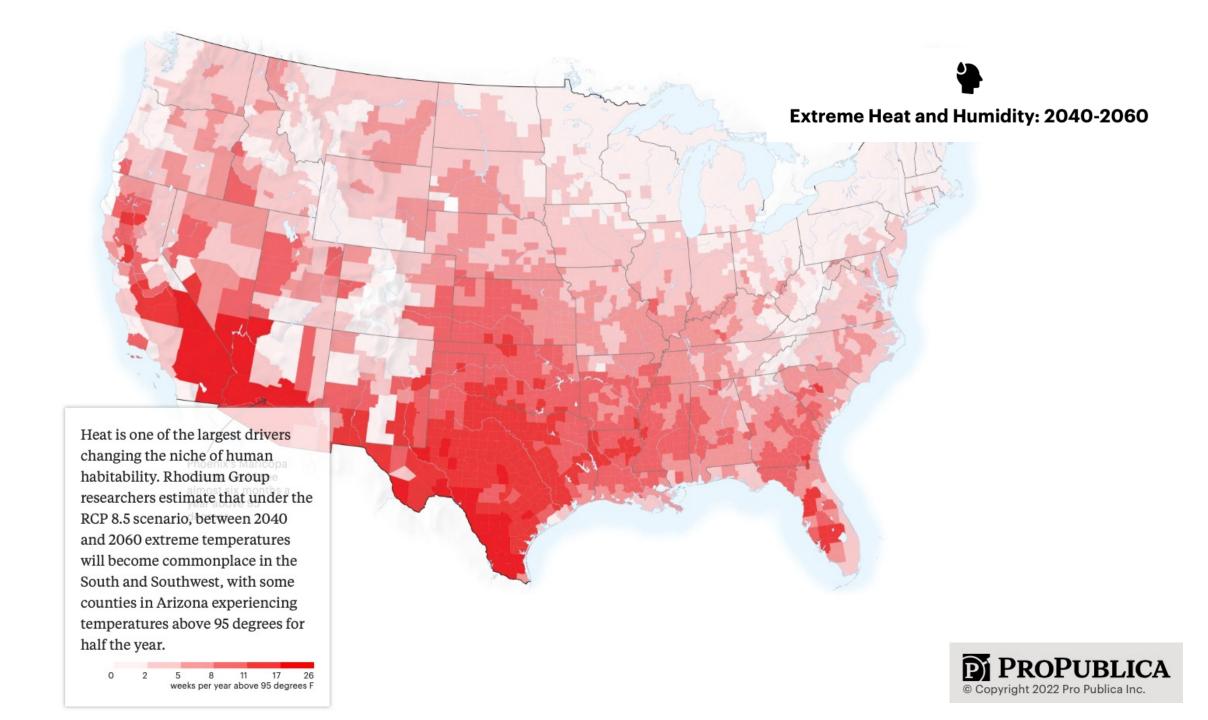


Farm Crop Yields: 2040-2060



Corn and soy production is more sensitive to heat than drought, and it will decrease for every degree of warming. By midcentury, North Dakota (A), which already harvests millions of acres of both crops, will warm enough to allow for more growing days and higher yields. But parts of Texas and Oklahoma (B) may see yields drop by more than 70%.



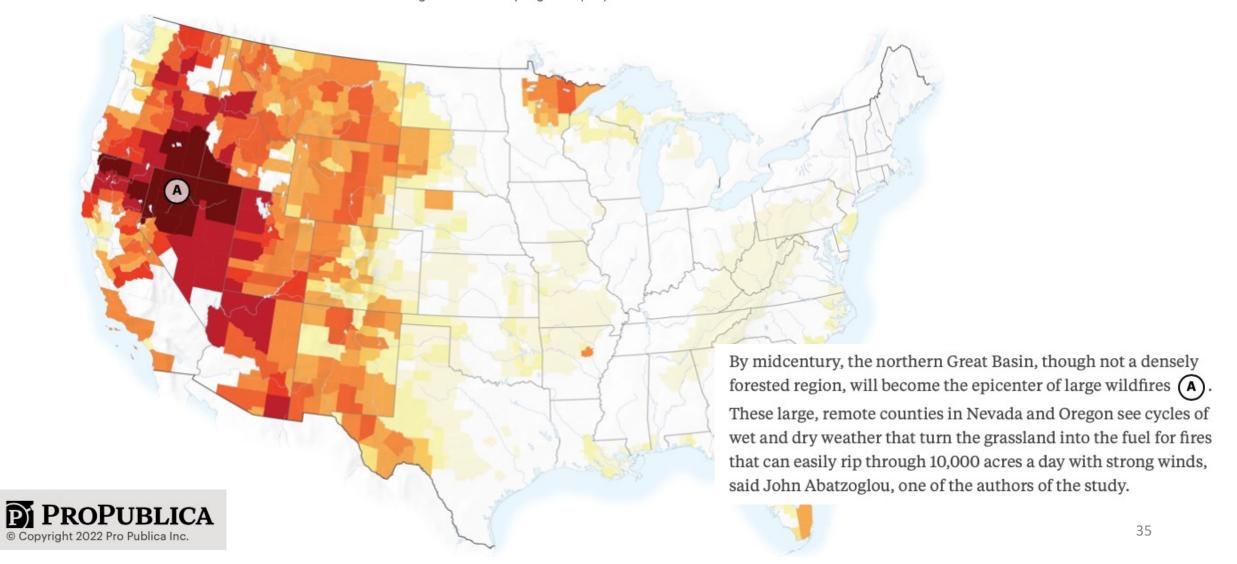


High Emissions





Average number of very large fires per year





Moderate Emissions



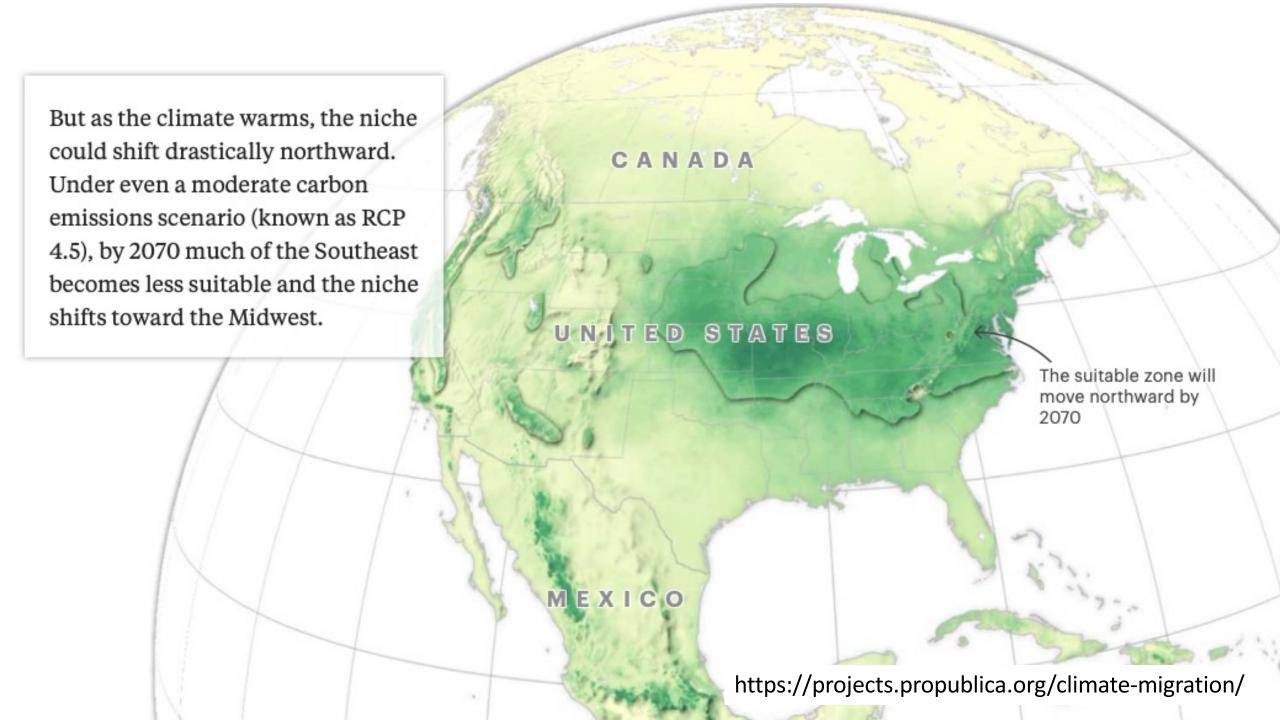
Sea Level Rise: 2040-2060

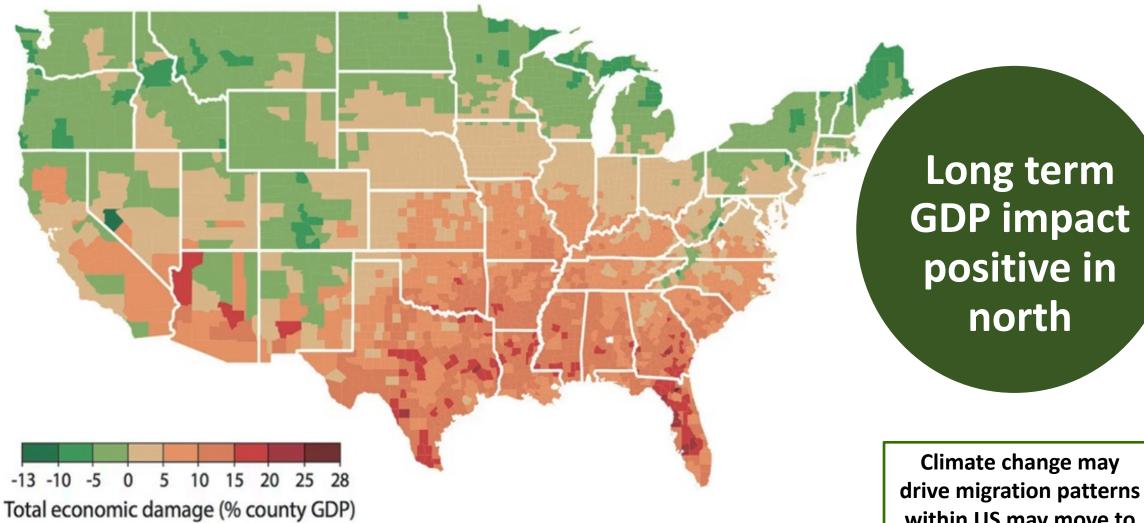
Some 50 million Americans live in eight of the largest U.S. metro areas — Miami (A), New York (B) and Boston (C) among them — which all lie in some of the most affected counties in the











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 will be consumed, and where it can be grown.
- Upper Midwest poised to capitalize on intersect of water, energy and biomass / food production capability.
- New migration patterns are emerging





Food, Energy, Water and Climate Change

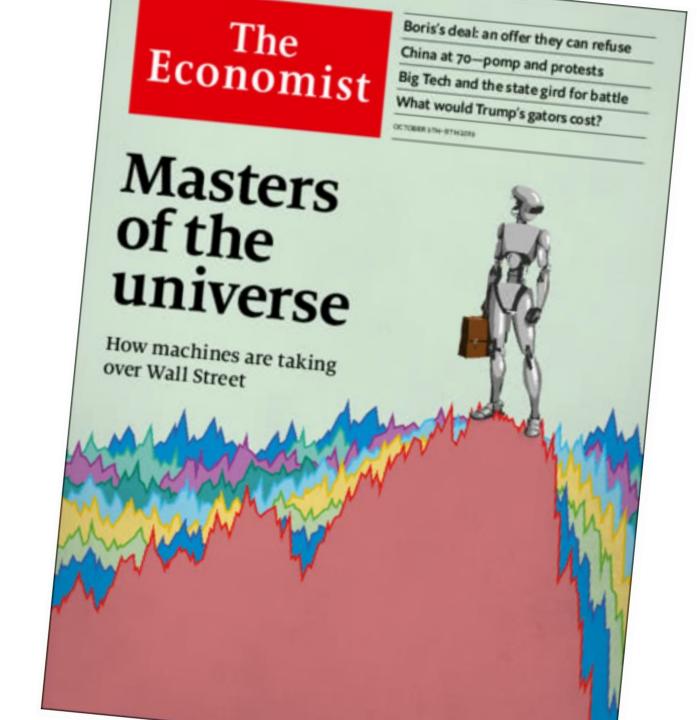
What do these trends mean for the the future of Lorain County?



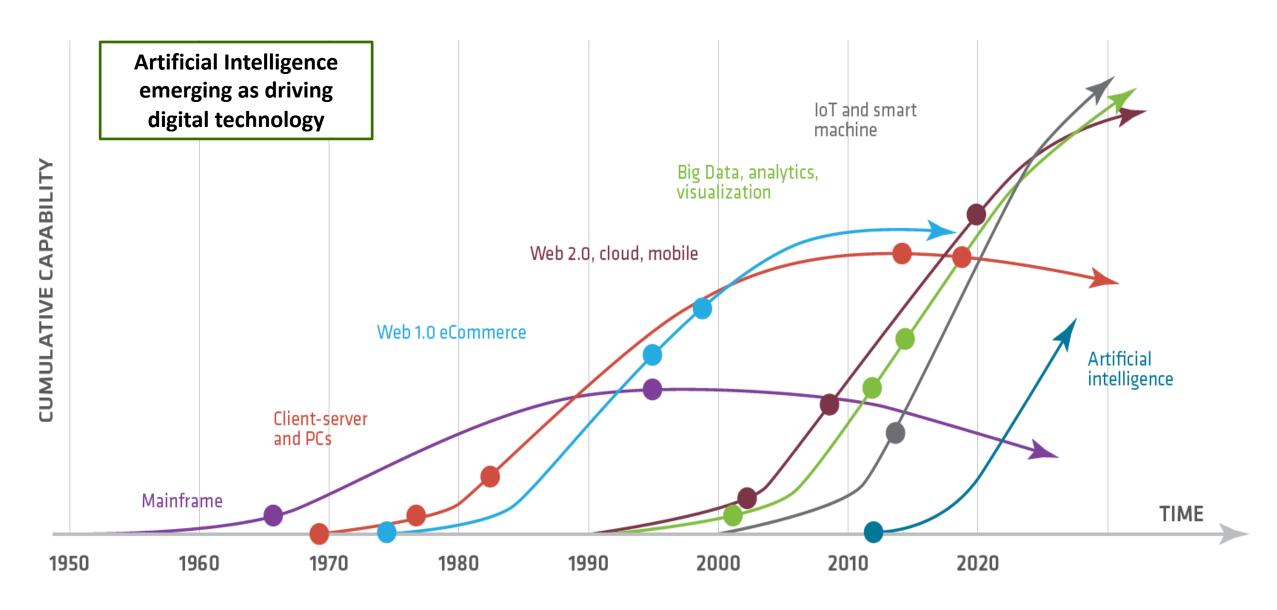
Technology and the speed of change



Create Future Intelligence™



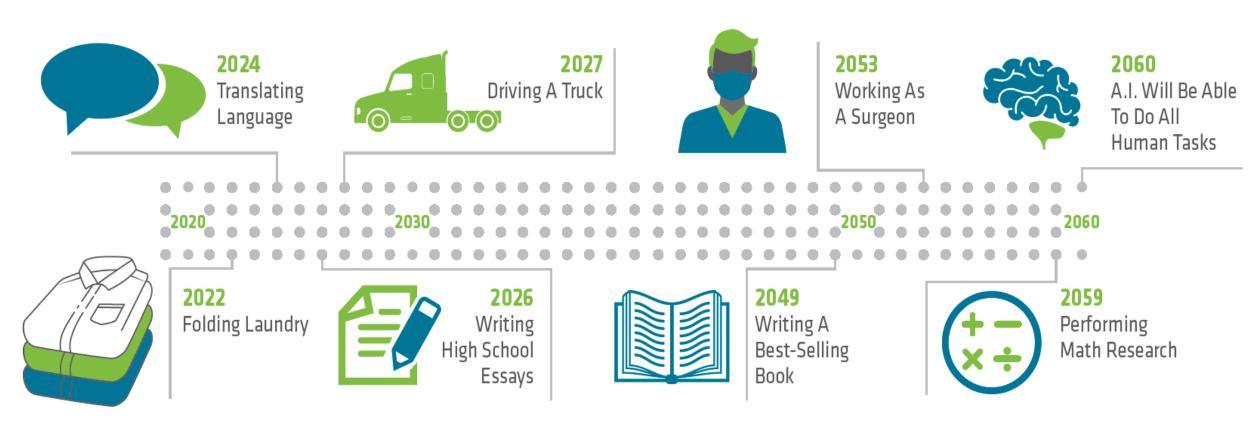
THE INCREASING CAPABILITY OF DIGITAL TECHNOLOGIES



When will Al outperform people?

Al is reshaping our lives and industries – right now

AI WILL LIKELY OUTPERFORM HUMANS AT ...



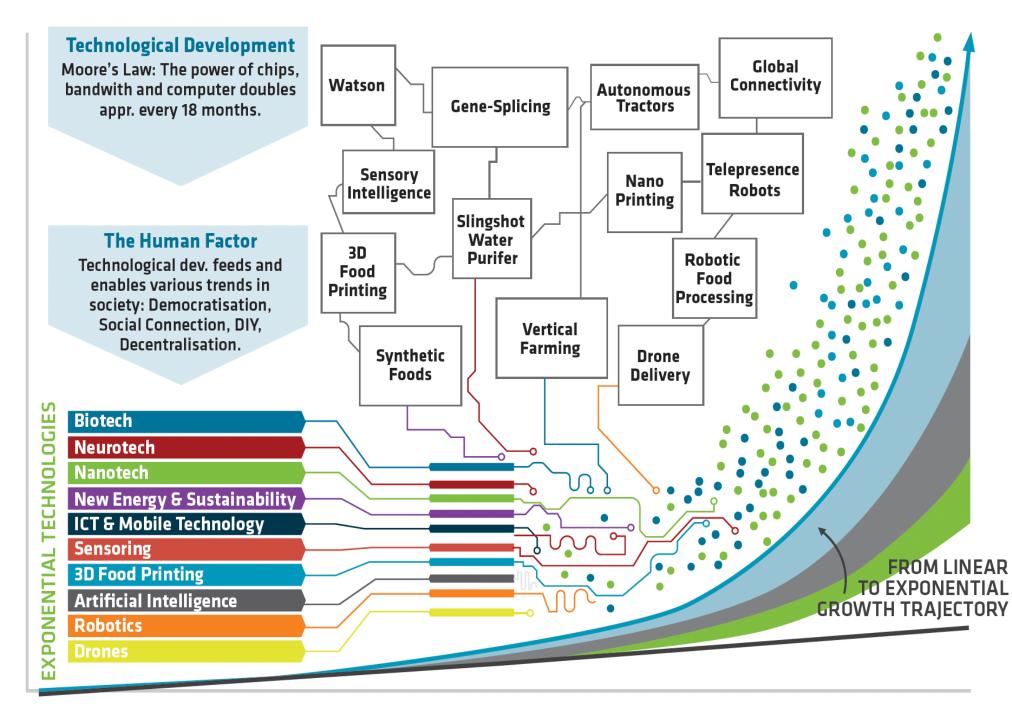
Source: 'You Will Lose Your Job to a Robot–and Sooner Than You Think'. Kevin Drum, Mother Jones, November / December Issue, 2017. (adapted from 'When will AI exceed human performance? Evidence from AI Experts', Oxford and Yale University 2017) 112

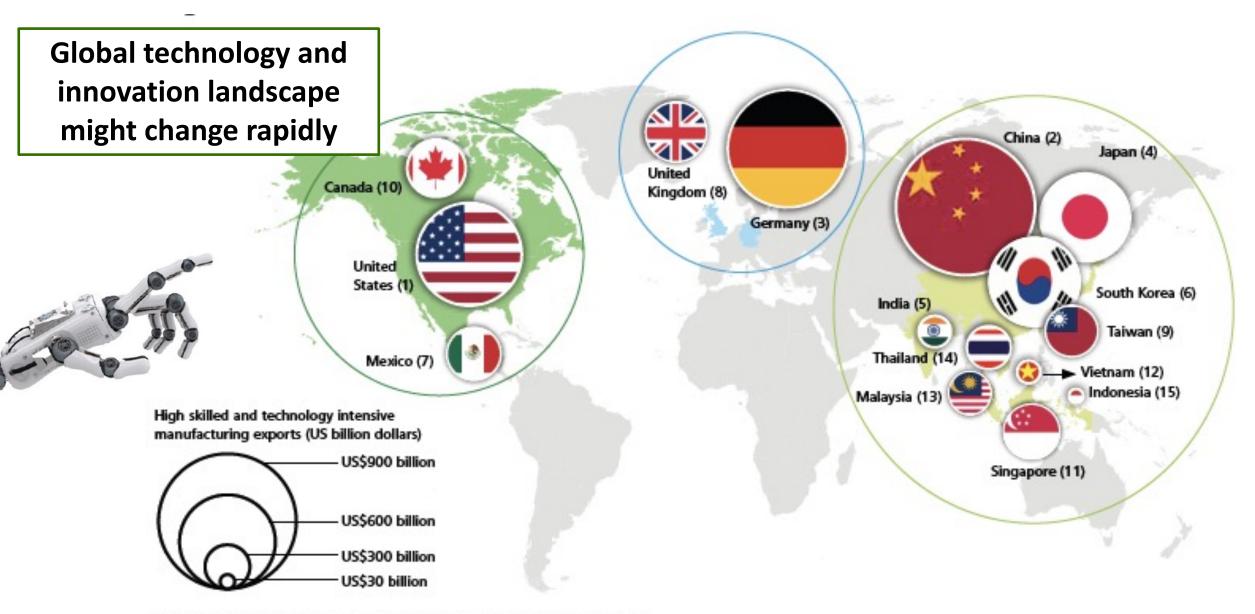


Rapid systemic change and technology integration

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





What do these trends mean for the the future of Lorain County?





SNAPSHOT DATA

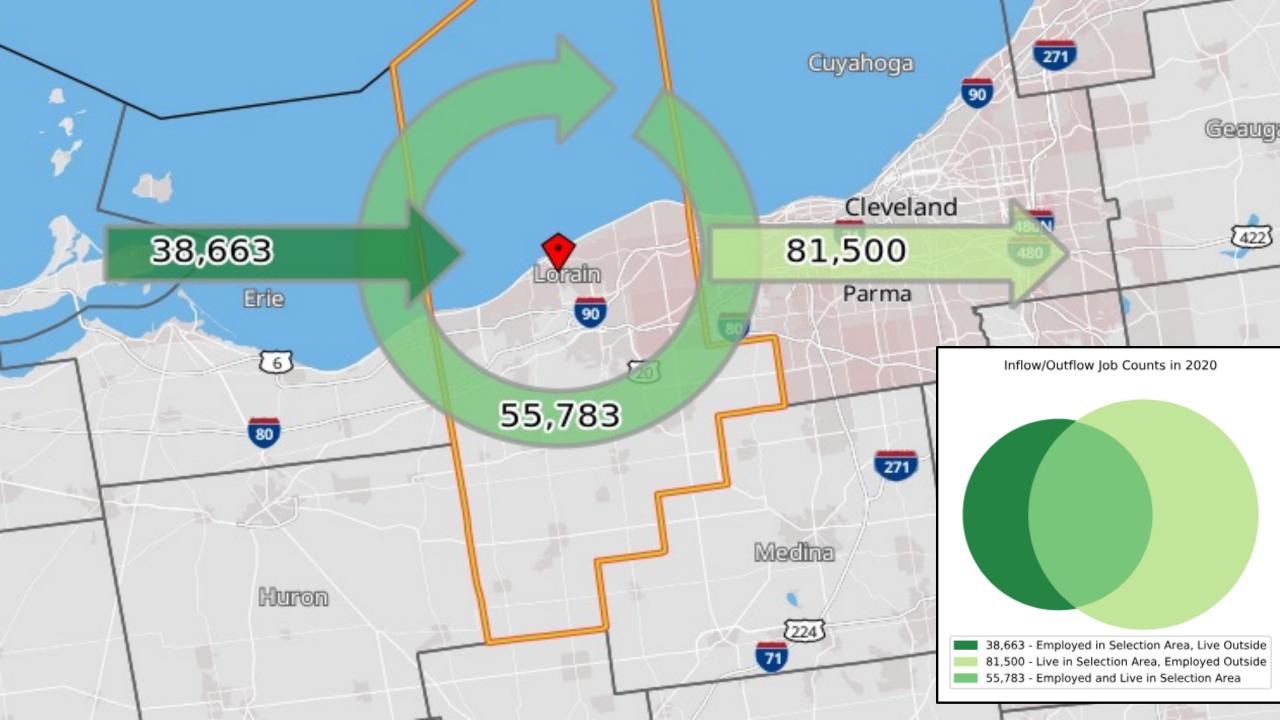


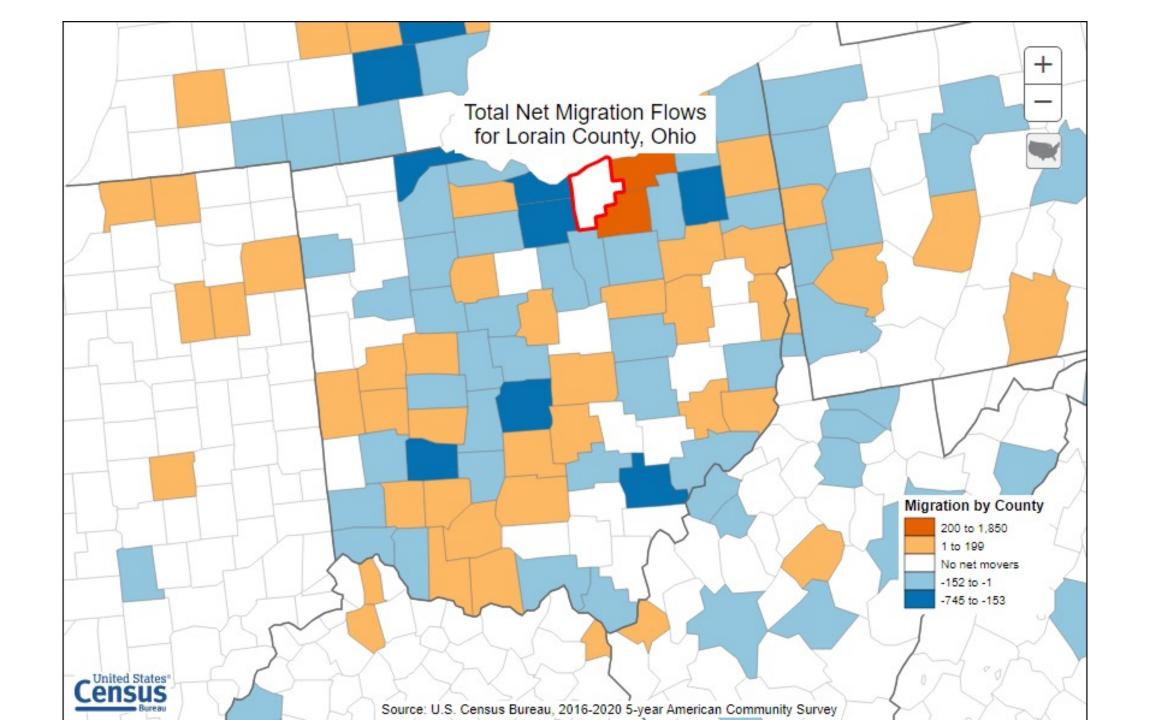










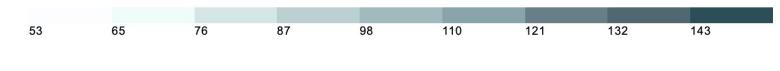


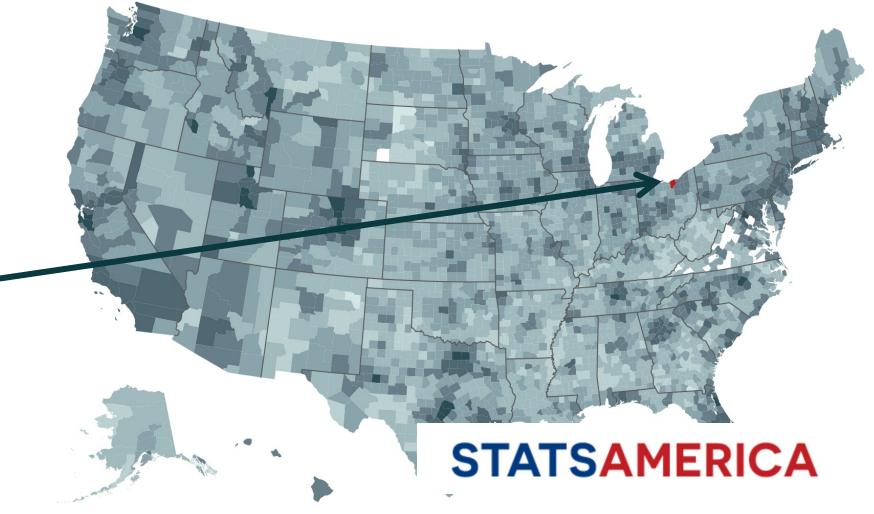
- Headline Innovation IndexHuman Capital and Knowledge Creation
- Business Dynamics
- Business Profile
- Begin in the Bound of the Bo
- Economic Well-Being

The Innovation Index includes both innovation inputs and outputs in order to measure both innovation capacity and innovation outcomes.



Headline Innovation Index





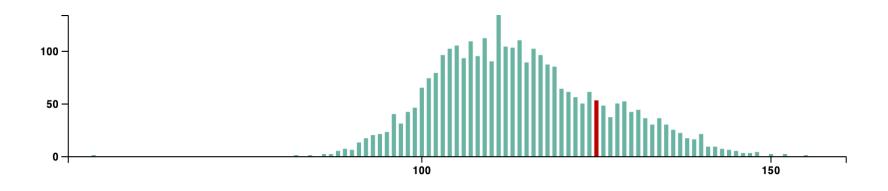
Lorain County, OH

Population: 311,737 Per Capita Income: \$54,452 Largest City: Lorain

Innovation Intelligence Index

125.9

Rank: **558**



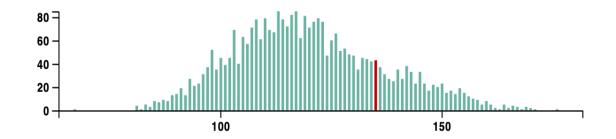
The graph above, and the similar graphs below, show the distribution of index values for all counties. The value for Lorain County, OH is highlighted in red.

This area has moderate relative Innovation Capacity. The innovation index incorporates statistical data from a wide variety of sources. Review the indexes below to learn more about how this number was determined.

Human Capital and Knowledge Creation Index 135.2 (rank: 597)

Key Takeaways

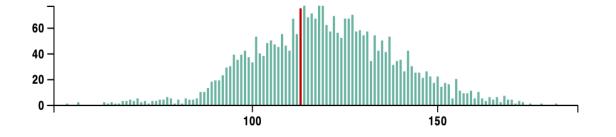
- Patterns of establishment formation and composition indicate a moderate level of business competitiveness.
- The top measures for this index are:
 - 1. University-Based Knowledge Spillovers (rank 106)
 - 2. Associate's Degree Attainment (rank 763)



Business Dynamics Index 113.8 (rank: 1,976)

Key Takeaways

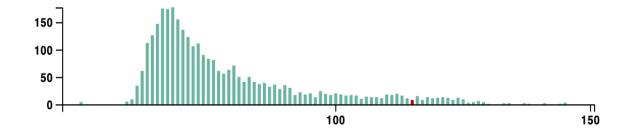
- Patterns of establishment formation and composition indicate a moderate level of business competitiveness.
- The top measures for this index are:
 - 1. Average High-Tech, Early-in-Life-Cycle Establishment Ratio (rank 523)
 - 2. Jobs Attributed to Establishment Births to Total Employment Ratio (rank 1342)



Business Profile Index 115.0 (rank: 152)

Key Takeaways

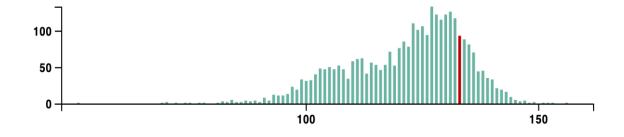
- The relative availability of resouces for entrepreneurs and businesses is high in this area.
- The top measures for this index are:
 - 1. Farm Operators with Internet Access (rank 92)
 - 2. Industry Diversity (rank 259)



Employment and Productivity Index 133.3 (rank: 534)

Key Takeaways

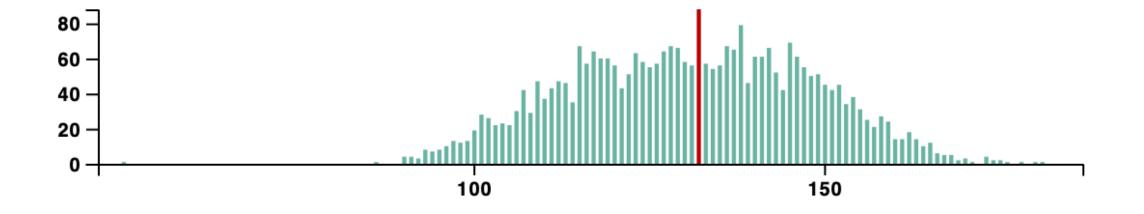
- Industry performance in Lorain County, OH indicate a moderate level of positive outcomes from existing economic activity.
- The top measures for this index are:
 - 1. Patent Diversity (rank 357)
 - 2. Change in Average Patenting Rate (rank 839)



Economic Well-Being Index 132.3 (rank: 1,485)

Key Takeaways

 As measured by residential internet connectivity and income, this area has a moderate standard of living.





Demographics + Resources + Technology + Innovation

What do these trends mean for the future of Lorain County?



Stakeholder Survey #1





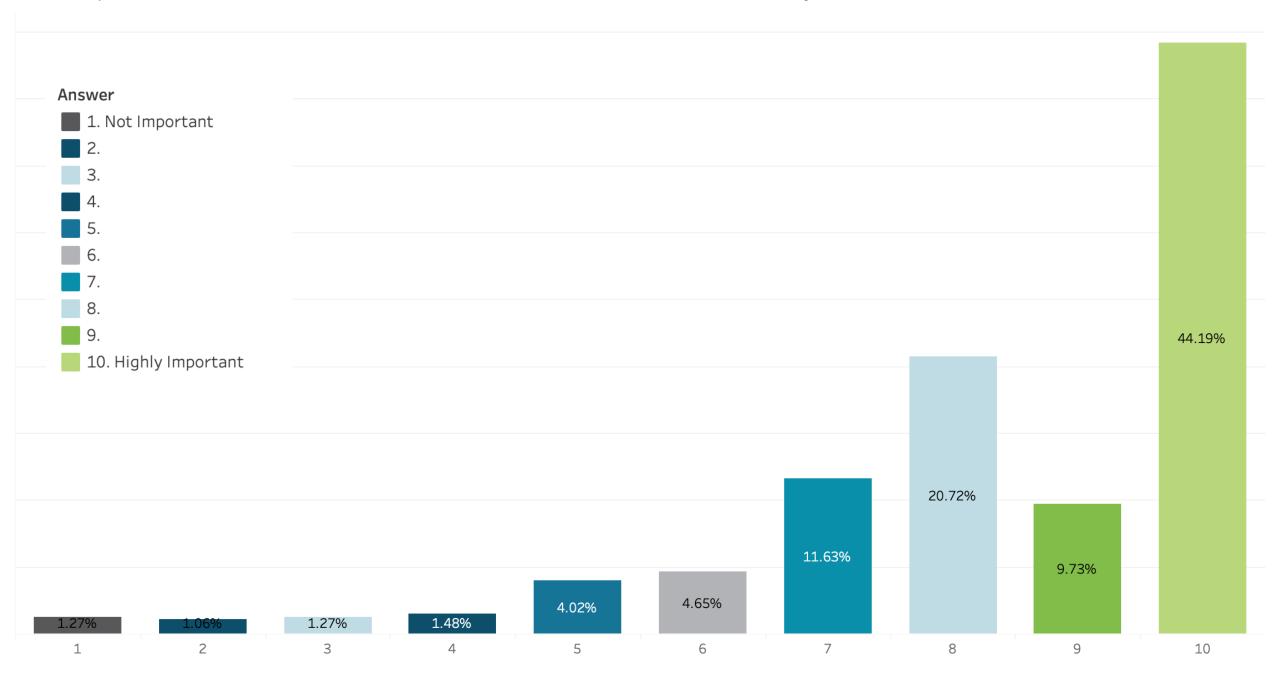


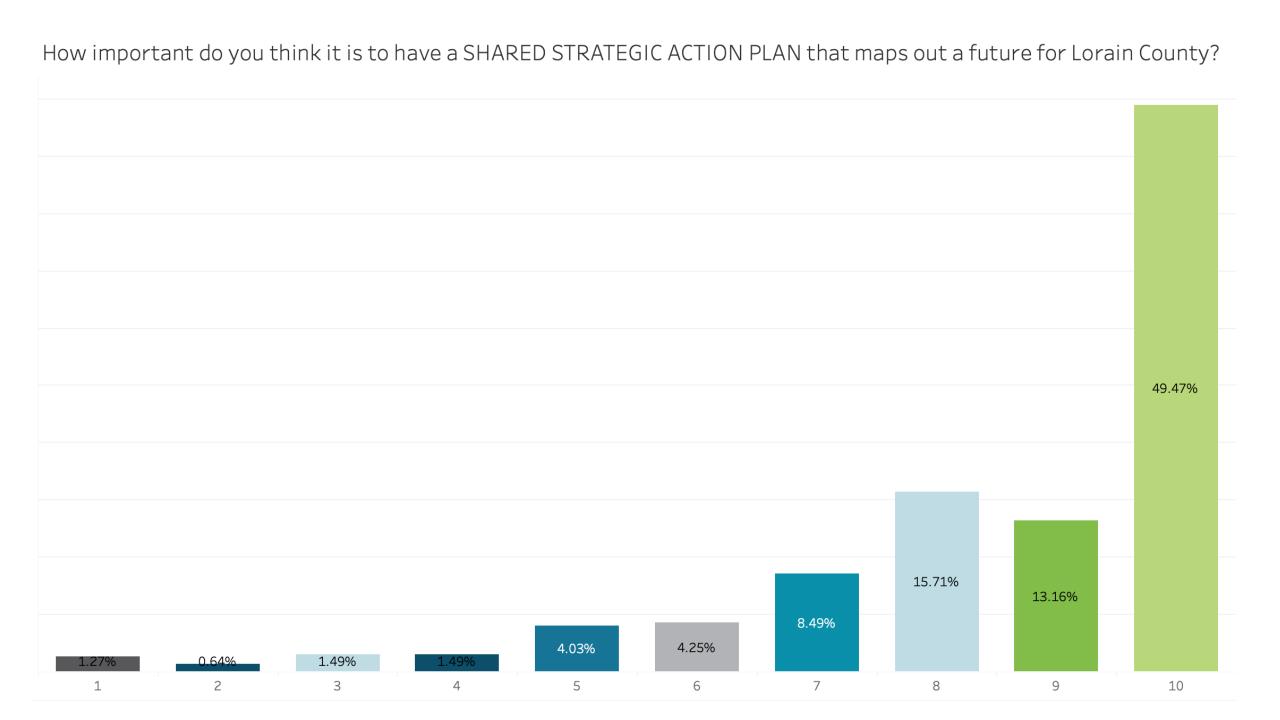




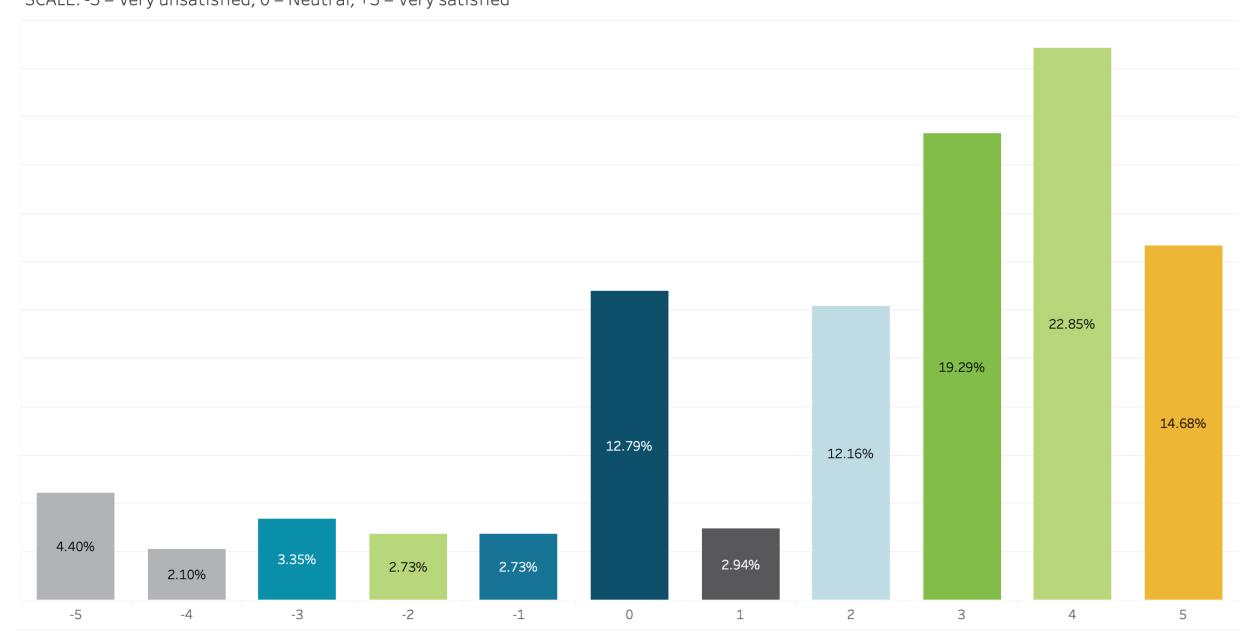


How important is it to have a SHARED VISION for the future of Lorain County?



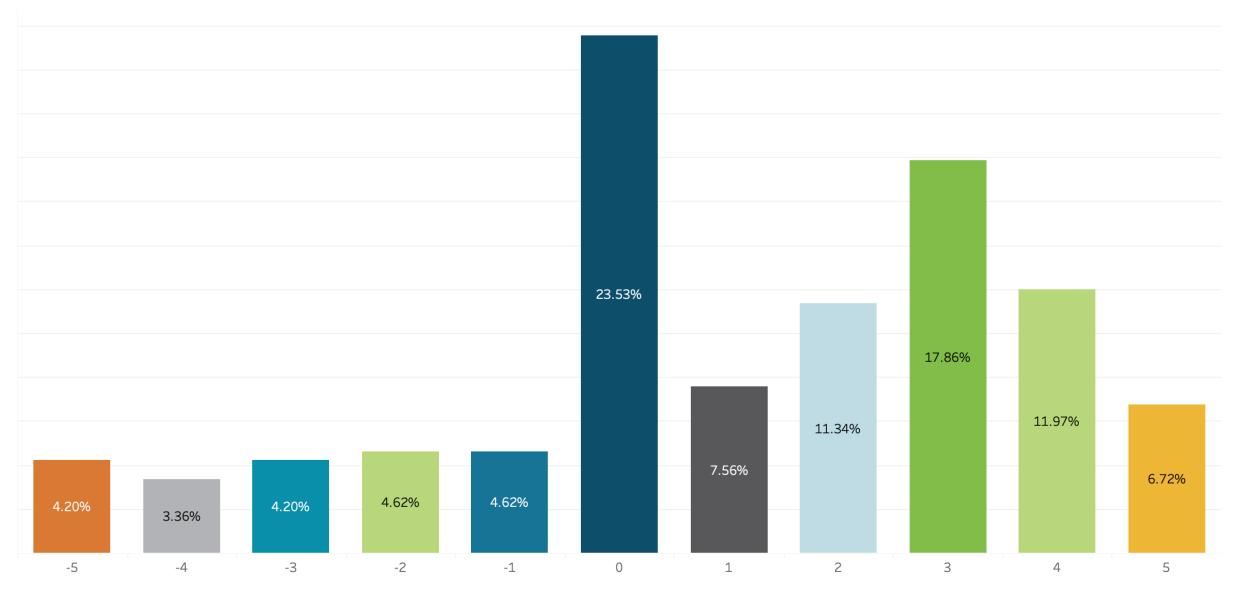


How satisfied are you about living and/or working in Lorain County? SCALE: -5 = Very unsatisfied; 0 = Neutral; +5 = Very satisfied

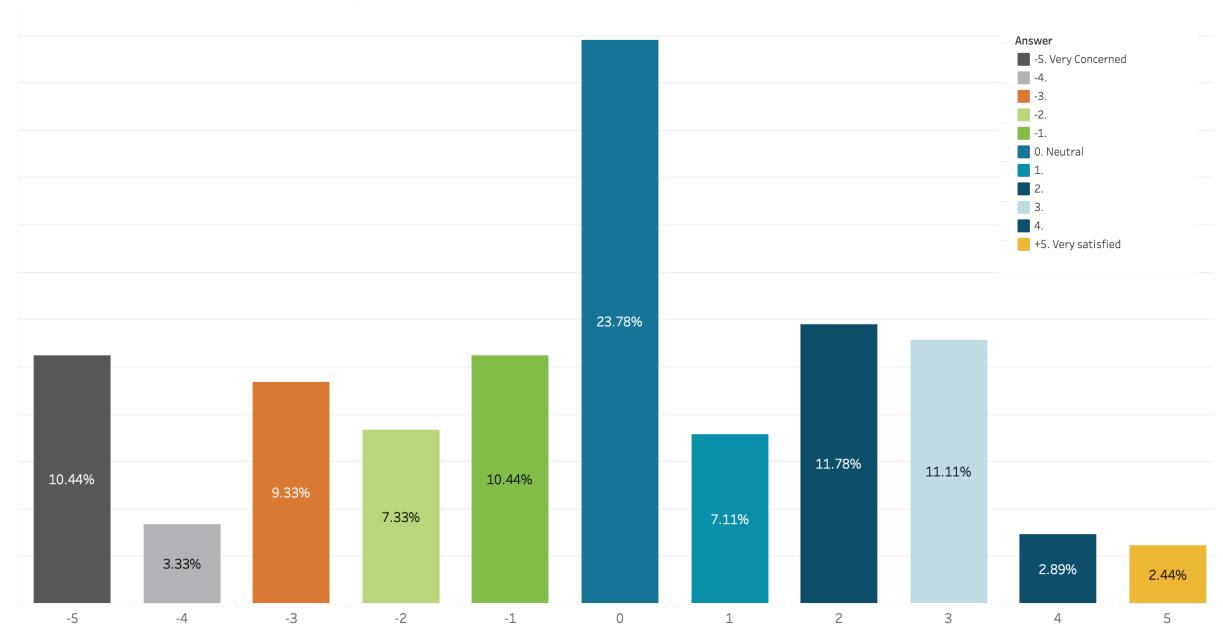


Do you think Lorain County offers you future opportunities to grow and thrive, in your life, interests, career and/or business?

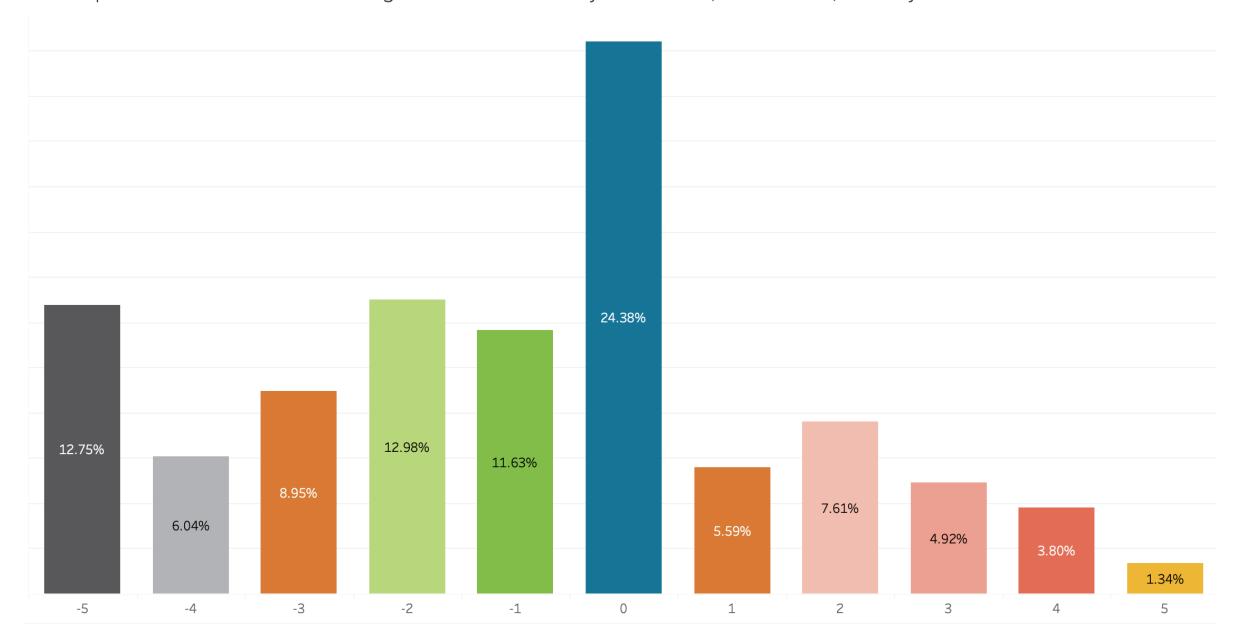
SCALE: -5 = Very little future opportunity; 0 = Neutral; +5 = Fantastic future opportunity



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



CURRENT ABILITY TO ADAPT – How satisfied or concerned are you about the ability of the Lorain County organization to adapt to current and future changes? SCALE: -5 = Very concerned; 0 = Neutral; +5 Very satisfied







IDENTIFYING KEY DRIVERS











Key Drivers:

What key drivers do you think are most important for the future of Lorain County?

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

Table brainstorm



KEY DRIVERS HANDOUT

Think-Tank Workshop Day 1

Monday, October 30, 2023

What are the most important KEY DRIVERS shaping the future of Lorain County?

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

1

2

Table brainstorm key drivers

Key Drivers – [list developed in Think-Tank]

1. xx 11. xx



KEY DRIVERS HANDOUT

Think-Tank Workshop Day 1

Monday, October 30, 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





RANKING KEY DRIVERS













4

5

6

Lorain County Strategic Action Plan

IMPACT MATRIX HANDOUT

Think-Tank Workshop Day 1

Monday, October 30, 2023

Rate each driver in terms of likely future impacts on the following dimensions for Lorain County.

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

Driver	Dimensions			
	Overall economic size and relative performance	Adaptability and resilience of the economy	Social fabric and cohesion	Quality of life and opportunity
1				
2				
3				Rat

Rating future impact of each driver – individual scoring





THINK TANK PART 2











Lorain County Think-Tank Part 1

October 30, 2pm - 5pm

Lorain County Community College Reaser Grand Room, Spitzer Conference Room 1005 Abbe Rd N Elyria, OH 44035

Lorain County Think-Tank Part 2

October 31, 9am - 12pm

Lorain County Community College
Reaser Grand Room, Spitzer Conference Room
1005 Abbe Rd N
Elyria, OH 44035

