



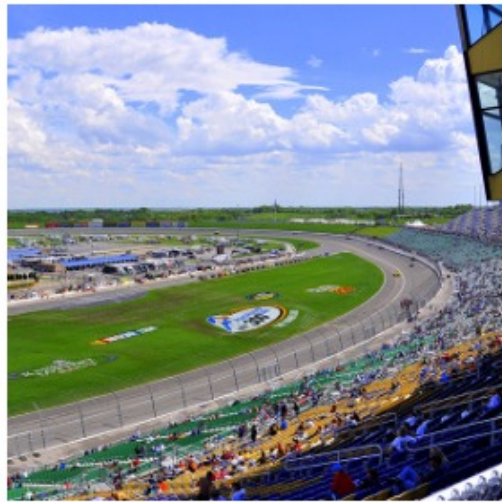
Unified Government of Wyandotte  
County-Kansas City, Kansas

# PLANKCK VISION SUMMIT

Tuesday, May 16, 2023 | 9:00am - 1:00pm

**2023 Year of  
Visioning**

**THE FUTURE!**





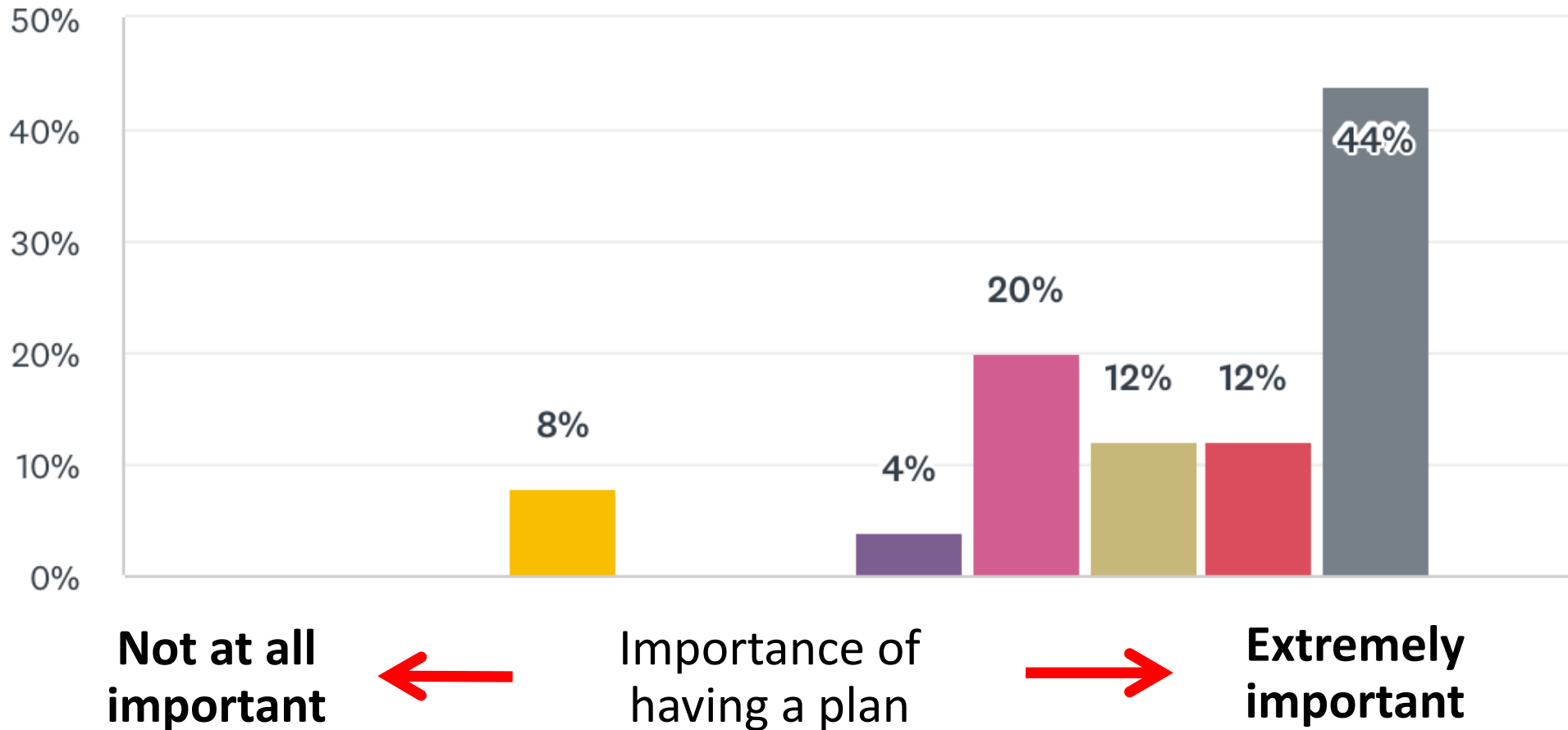
**PlanKCK**



# Stakeholder Survey

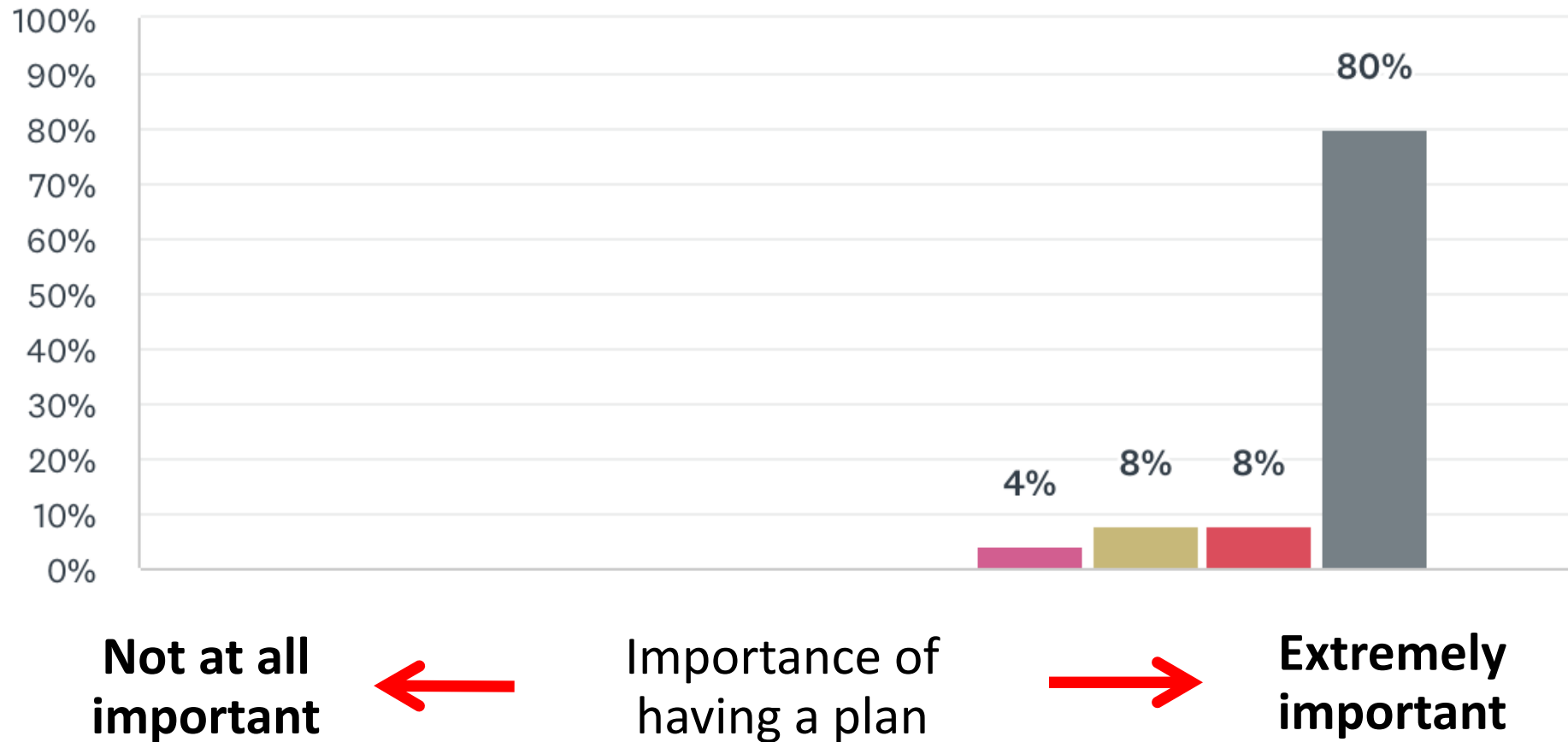


# How important is it to have a SHARED VISION for future of KCK





# How important is it to have a PLAN for the future of KCK





## The challenge for the Vision Summit

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

The outcome may be a new view of the future.





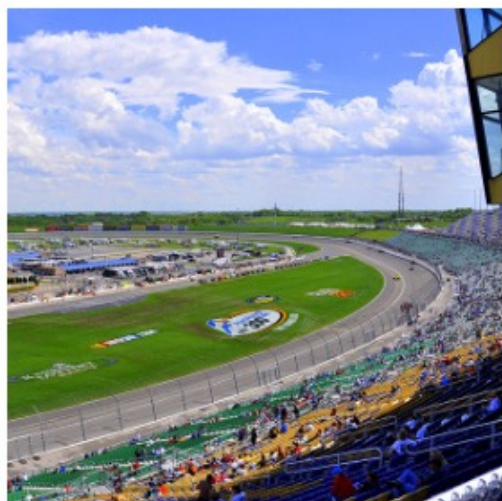
# Key Emerging Trends Shaping the future of KCK



# The Importance of Future Thinking

The key to effective future thinking...

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



# In a time of change and uncertainty....

- Which trends are being amplified and accelerated?
- What changes might be more elastic?
- Where are the potential tipping points?







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

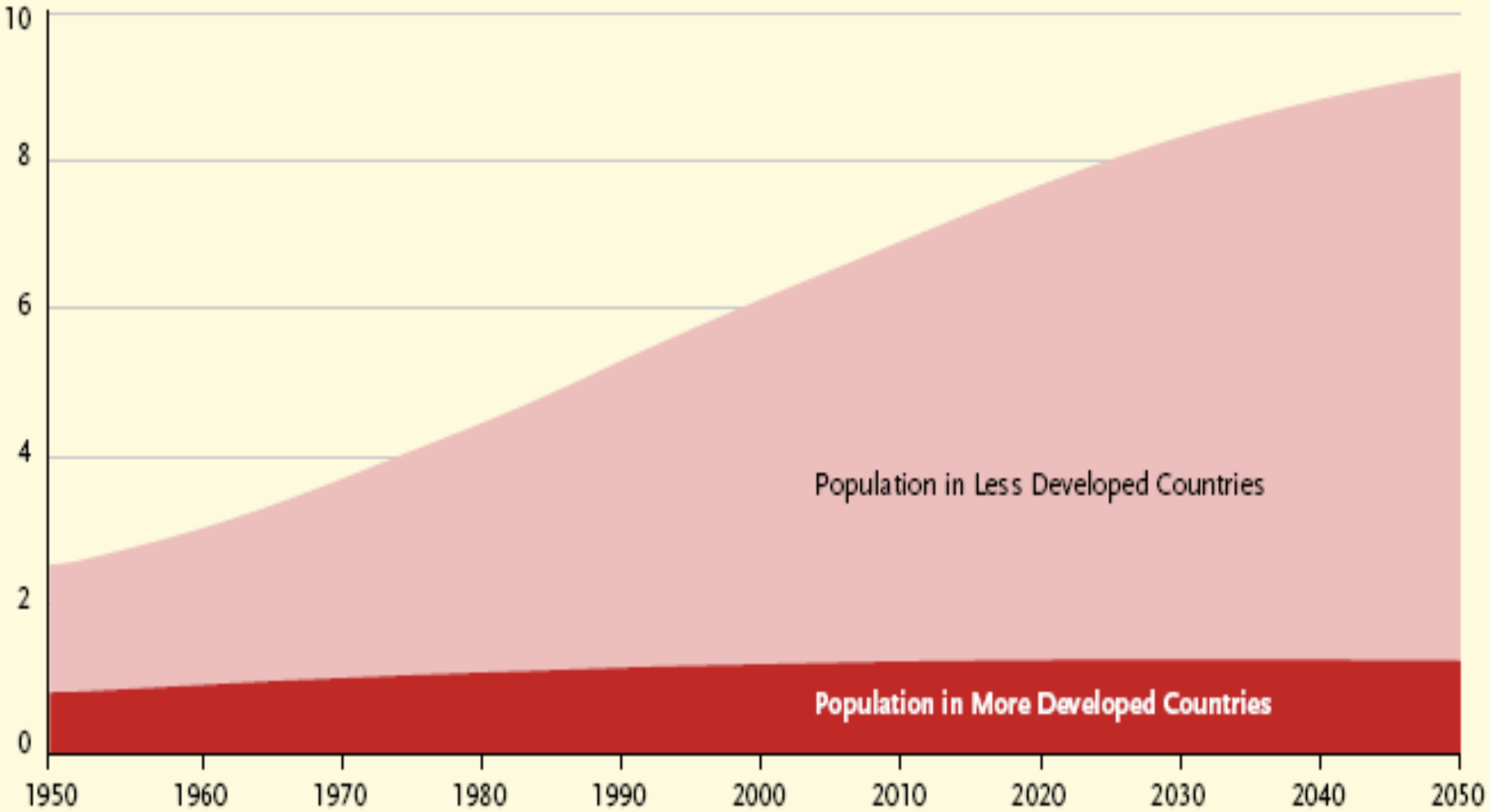




Demographics,  
population and  
mass urbanization

# Global Population Growth Is Driven By Developing Countries.

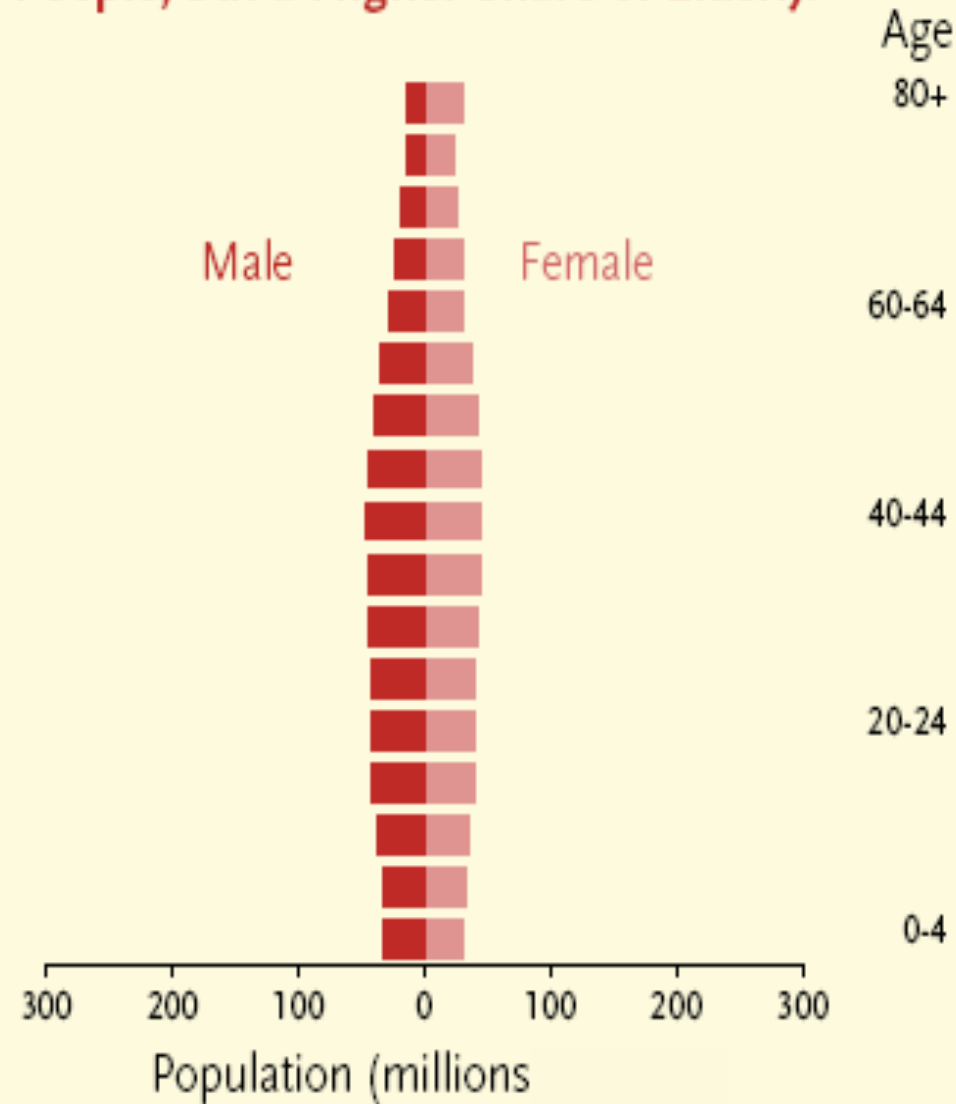
World population in billions, 1950-2050 (projected)



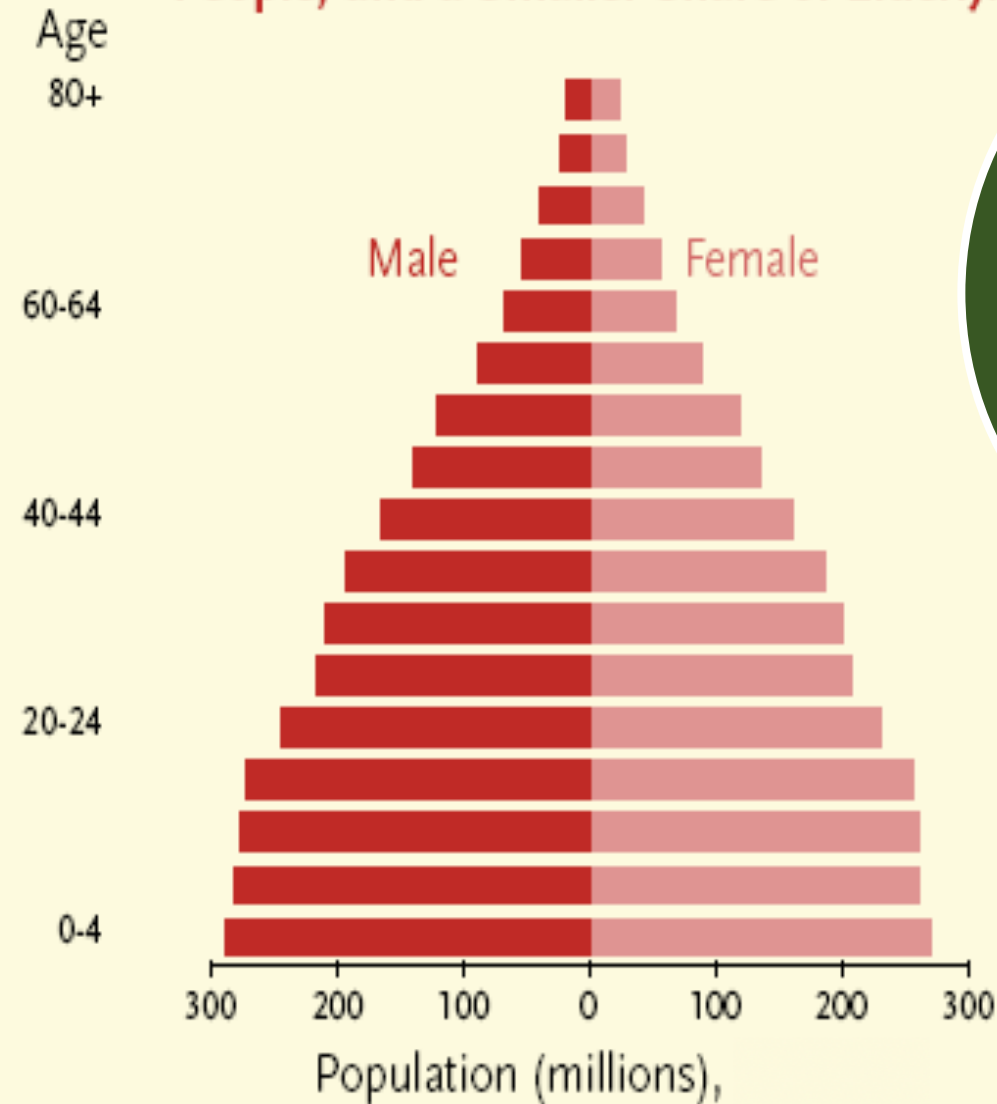
**Global population**

SOURCE: United Nations, *World Population Prospects*.

Developed Countries Have Fewer Young People, but a Higher Share of Elderly.

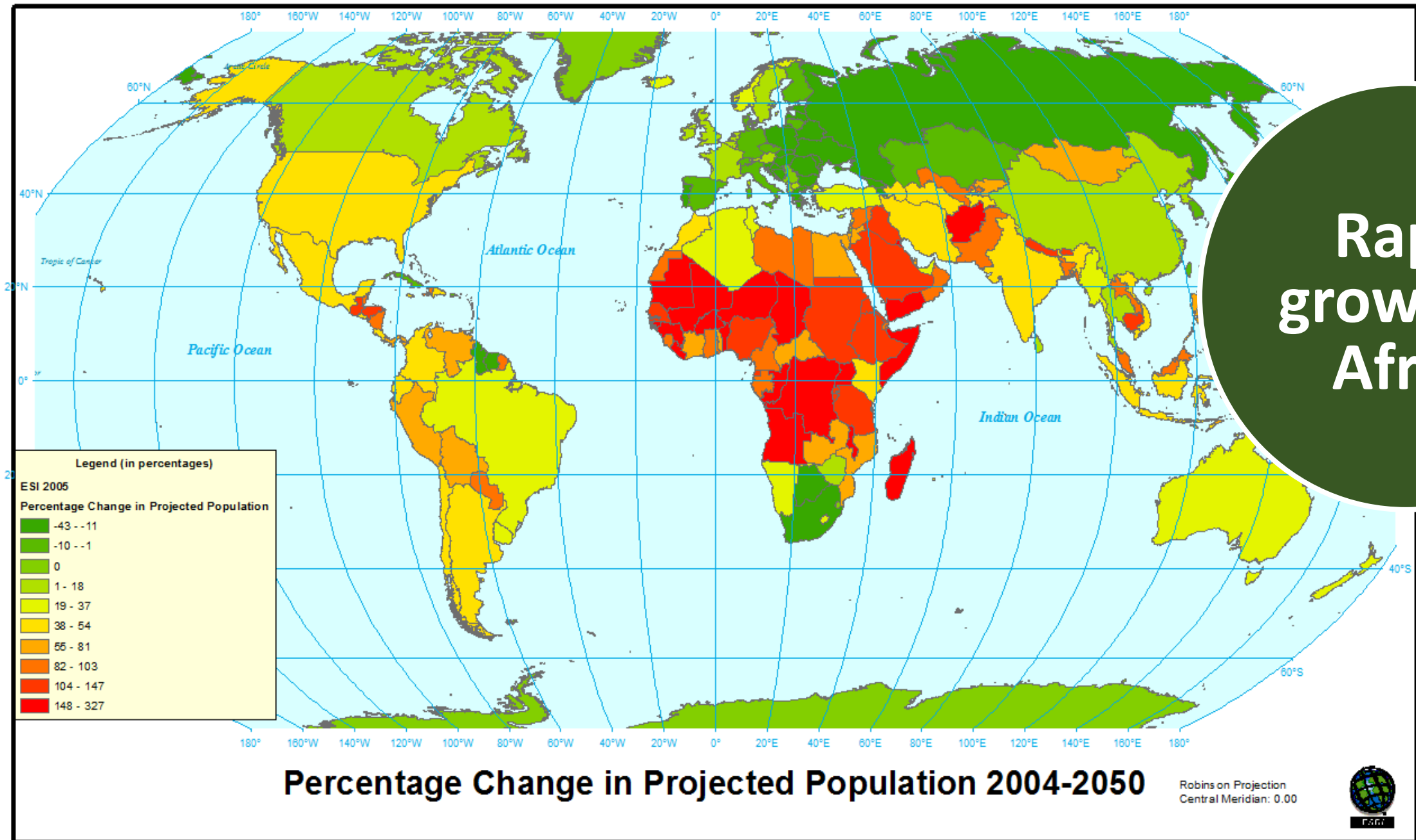


Developing Countries Have More Young People, and a Smaller Share of Elderly.



Global population age profiles

SOURCE: United Nations, *World Population Prospects*:



**Rapid  
growth in  
Africa**

# 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%
- 50% - 75%
- 25% - 50%
- Less than 25%

 1950



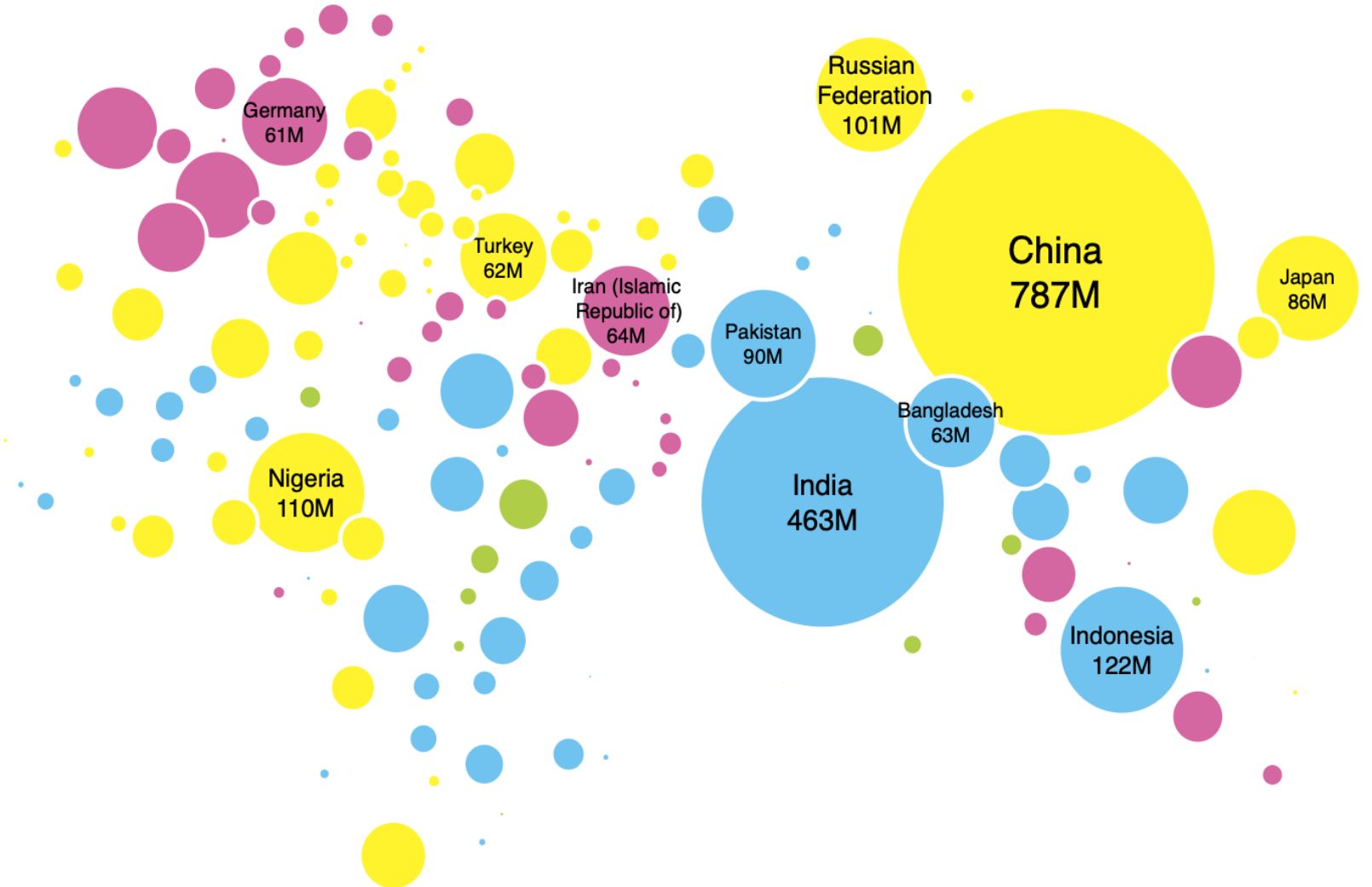
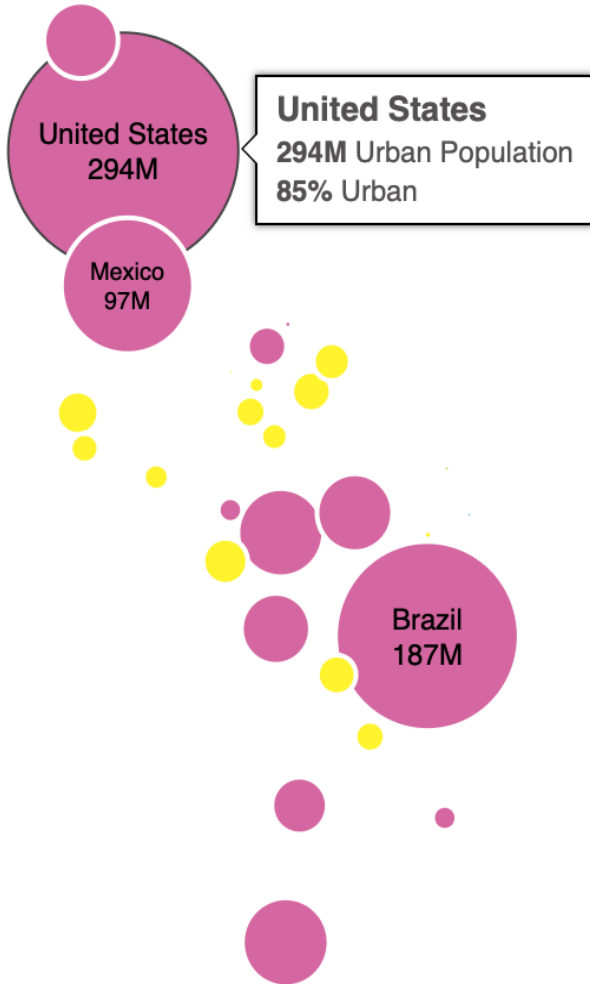
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2020





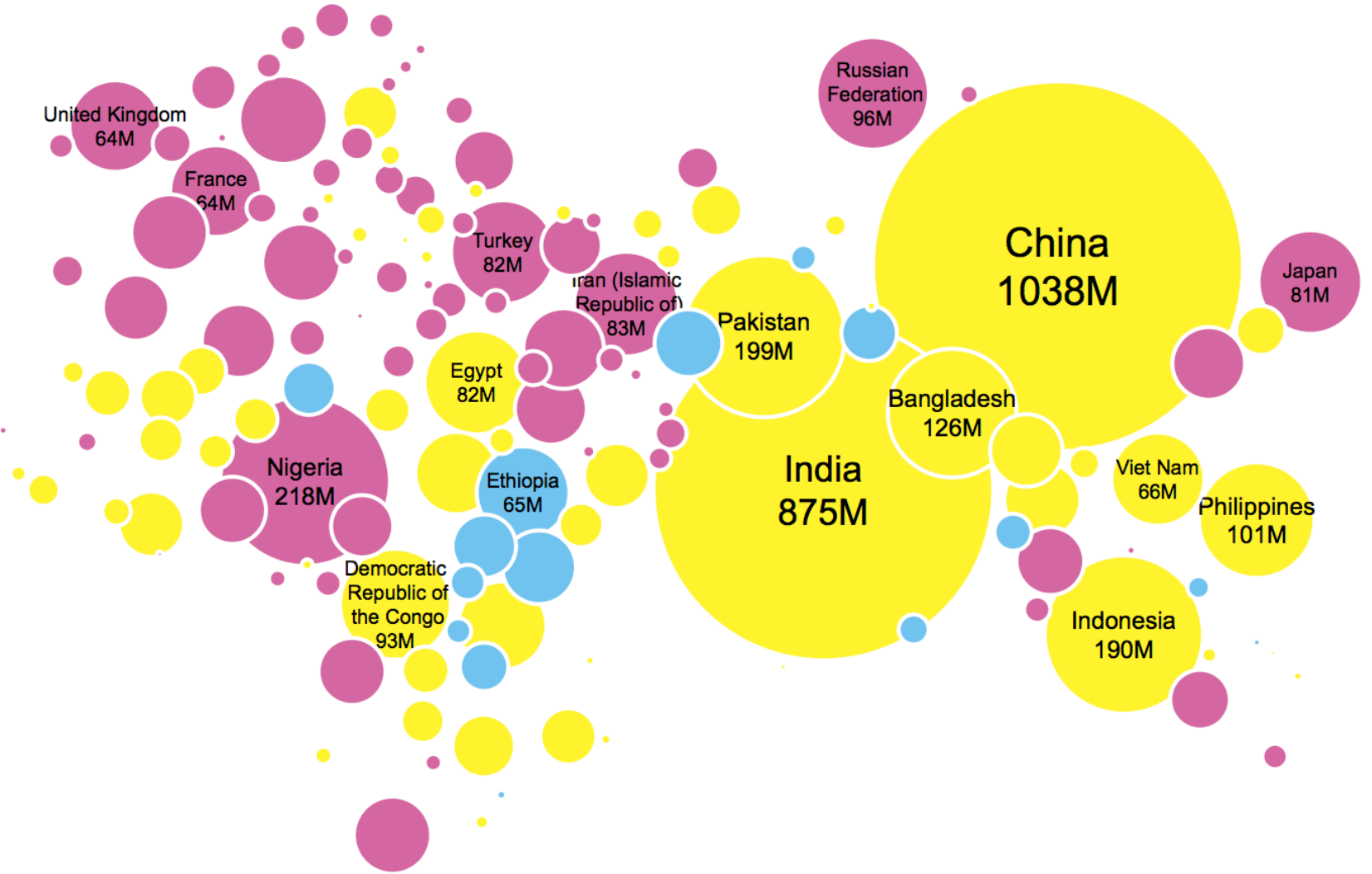
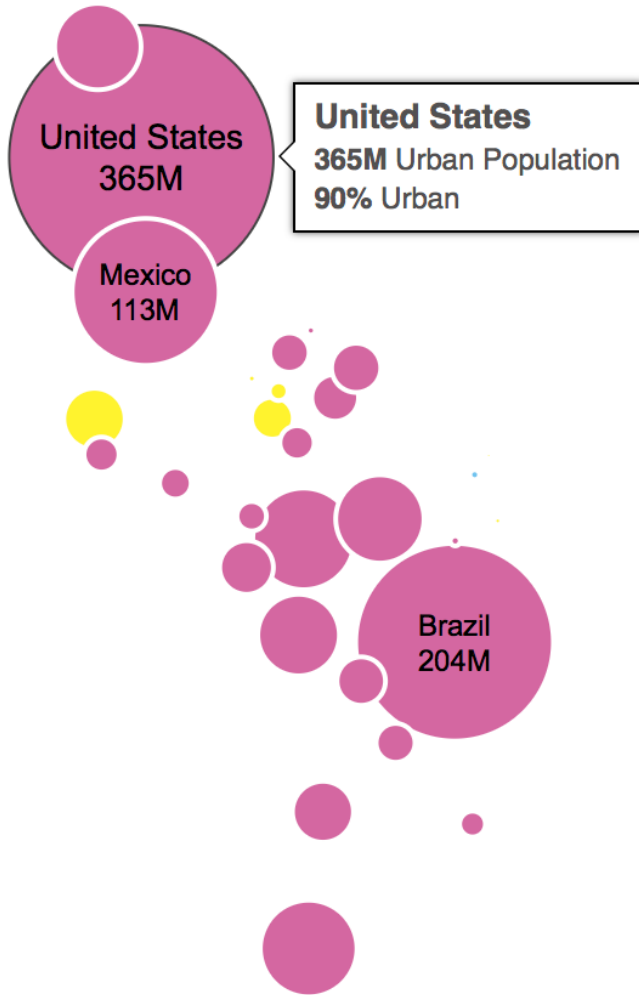
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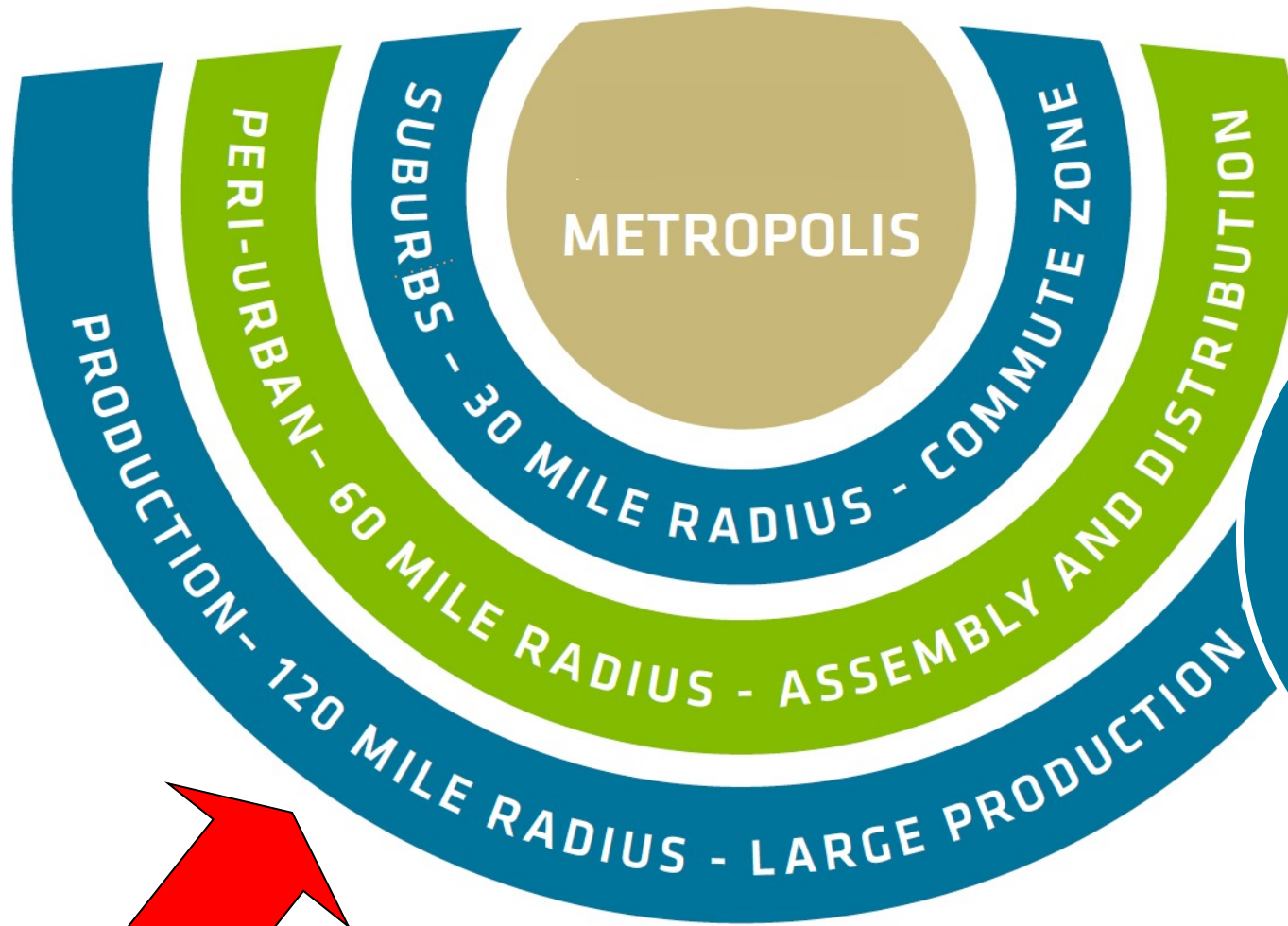
2050



Arc of Innovation



Future-Splitting  
Questions™



Does this strengthen  
the strategic  
proposition for  
KSK?

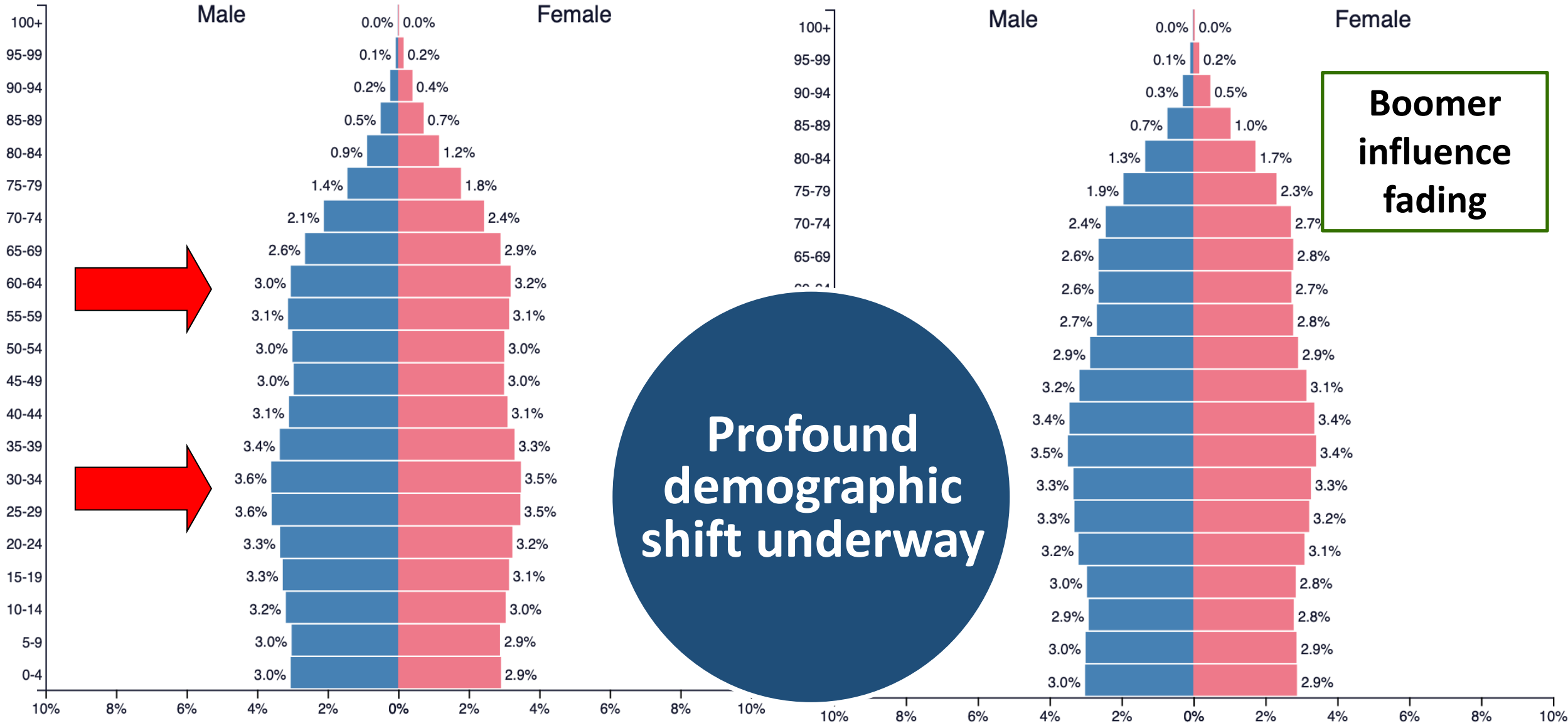
**Society is re-distributing into and  
around mega-cities**

# United States of America ▼ 2022

Population: 334,805,268

# United States of America ▼ 2032

Population: 353,335,452

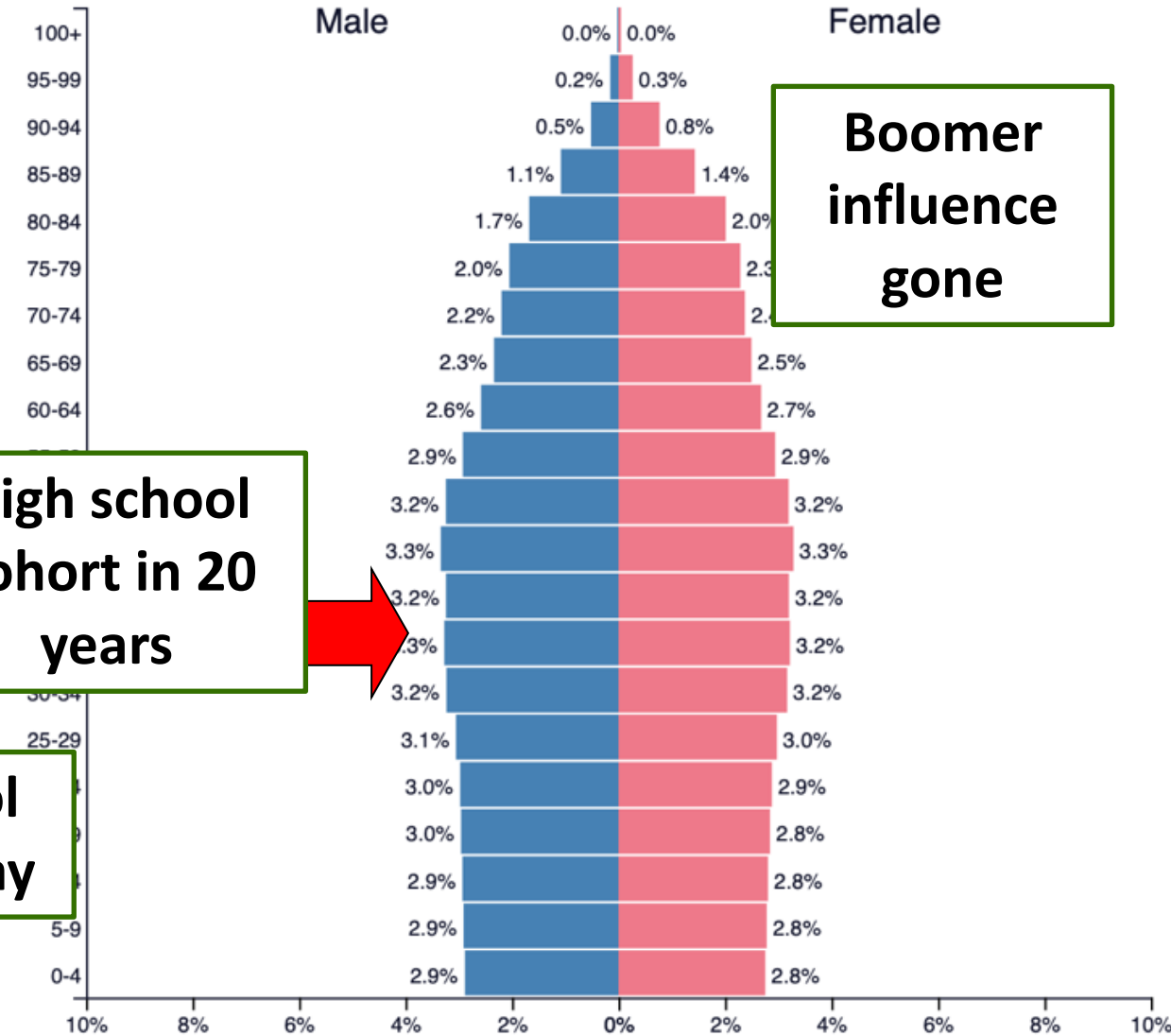
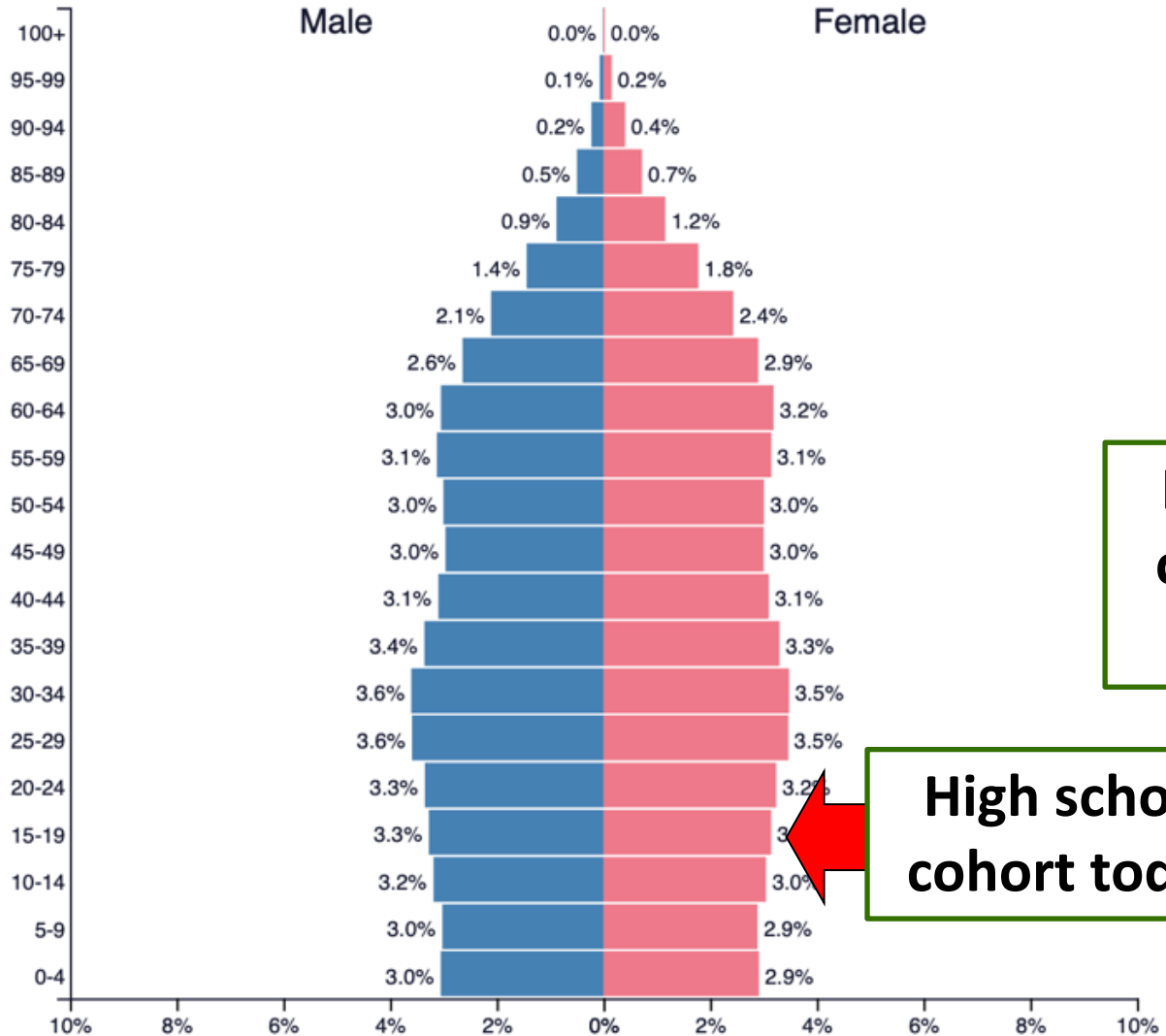


# United States of America ▼ 2022

Population: 334,805,268

# United States of America ▼ 2042

Population: 369,396,554



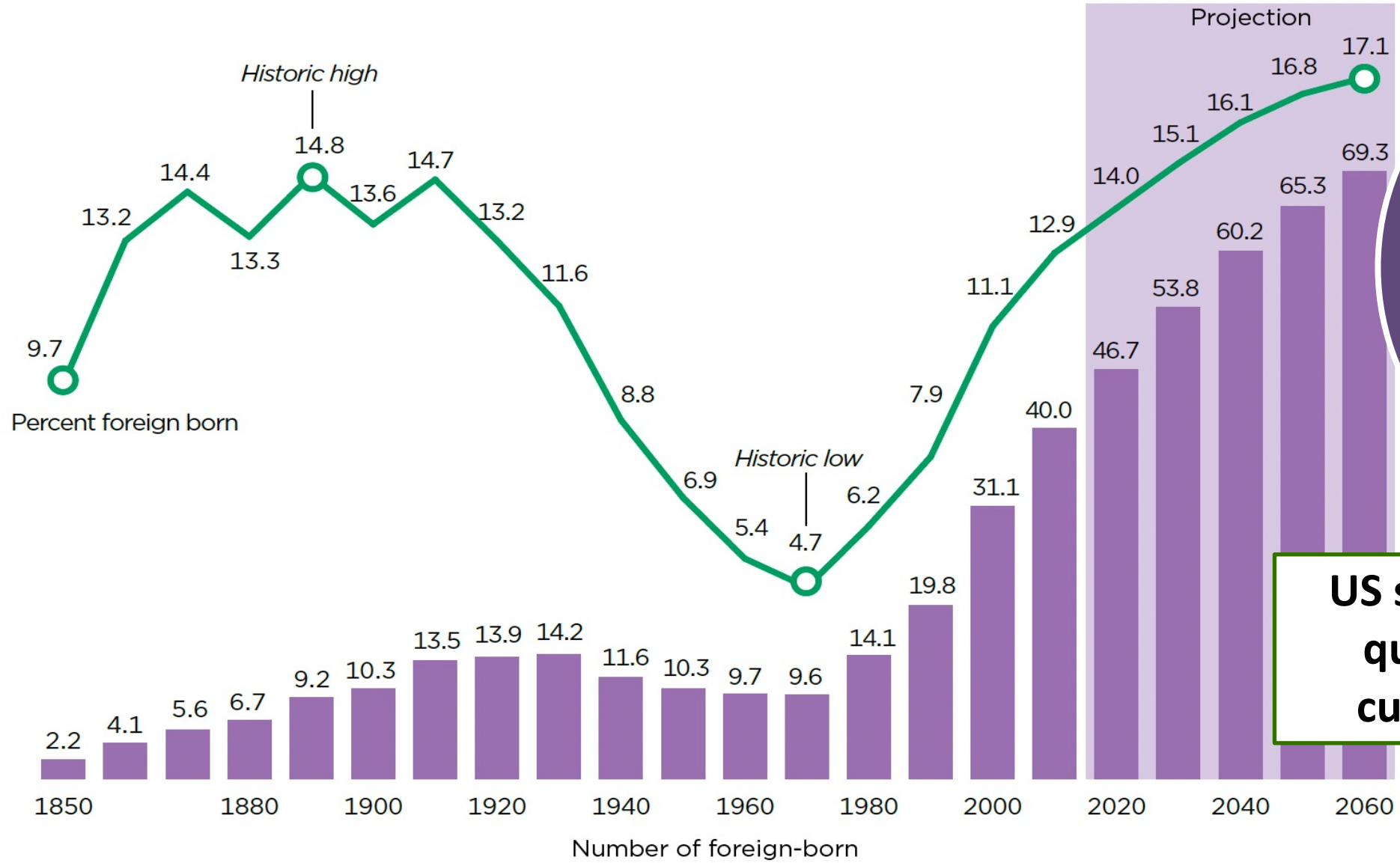
High school cohort in 20 years

High school cohort today

Boomer influence gone

# 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.



**Foreign born % increasing**

**US society is changing quickly, with more cultures and voices**

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



Blow in her face and she'll follow you anywhere

Hit her with tangy Tipalet Cherry. Or rich, grape-y Tipalet Burgundy. Or luscious Tipalet Blueberry. It's Wild! Tipalet. It's new. Different. Delicious in taste and in aroma. A puff in her direction and she'll follow you, anywhere. Oh yes.... you get smoking satisfaction without inhaling smoke.

Smokers of America do yourself a flavor. Make your next cigarette a **Tipalet**

New from Muriel. About 5 for 25¢.



For a better start in life  
start COLA earlier!

- Promotes Active Lifestyle!
- Boosts Personality!
- Gives body essential sugars!

### How soon is too soon?

Not soon enough. Laboratory tests over the last few years have proven that babies who start drinking soda during that early formative period have a much higher chance of gaining acceptance and "fitting in" during those awkward pre-teen and teen years. So, do yourself a favor. Do your child a favor. Start them on a strict regimen of sodas and other sugary carbonated beverages right now, for a lifetime of guaranteed happiness.

The Soda Pop Board of America  
1515 W. Hart Ave. - Chicago, ILL.





# 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 KCK?







# Energy + Water + Food + Climate Change

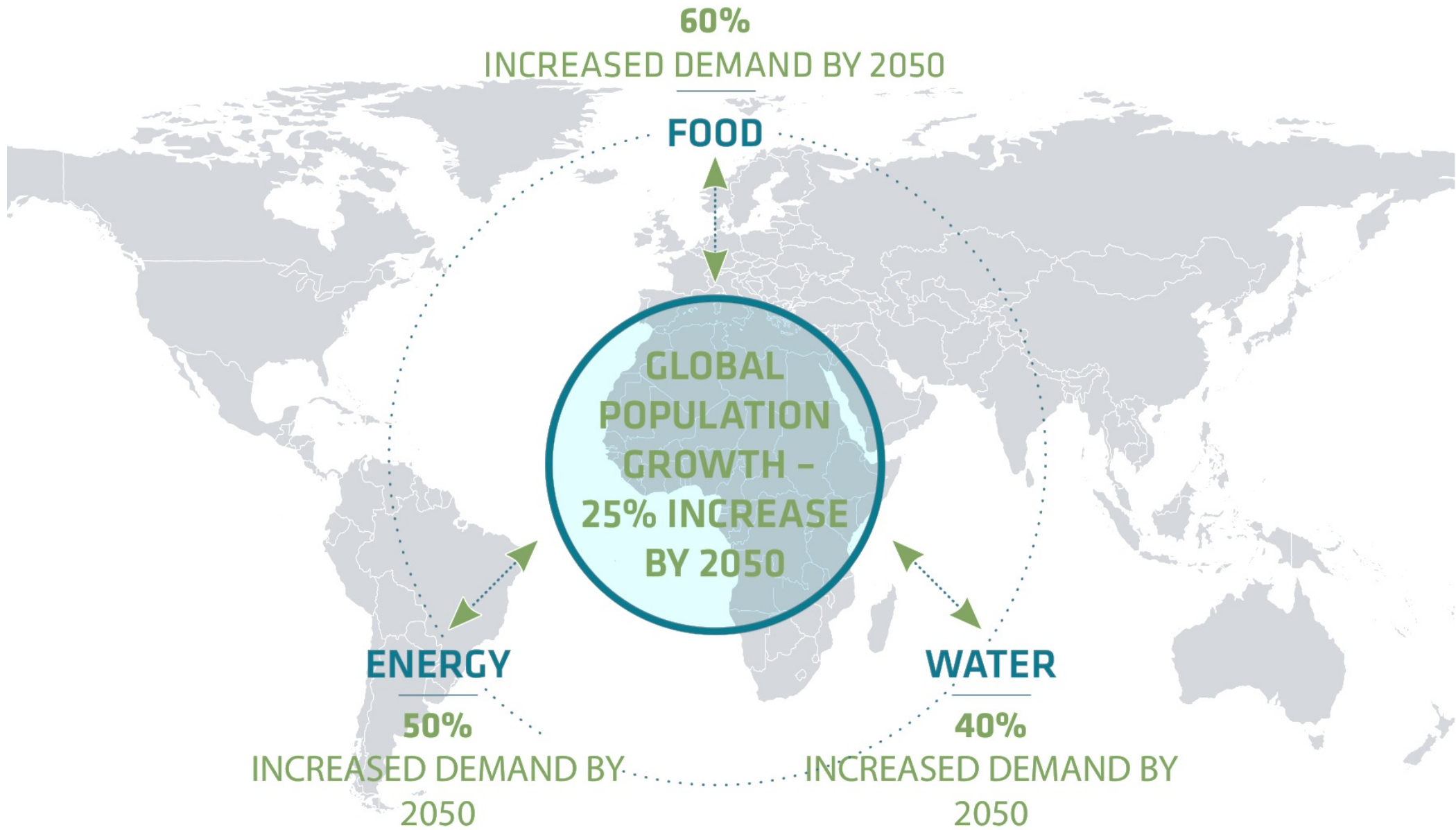


future→iQ

JS&A

SOM

THE  
LAKOTA  
GROUP.



# 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

Hunger is an emerging critical global issue



# Hunger Map 2021 **CHRONIC HUNGER**

**<2,5%**   **2.5-4.9%**   **5-14,9%**   **15-24,9%**   **25-34,9%**   **>35%**   **DATA NOT AVAILABLE**



Prevalence of undernourishment in the total population (percent) in 2018-20

Up to 811 million people – 1 in 10 of the global population – do not get enough to eat

Undernourishment is defined as the condition in which an individual's caloric food consumption is insufficient to provide the amount of dietary energy required to maintain a normal, active lifestyle. The prevalence is reported as the percentage of undernourishment (which is an estimate of the percentage of individuals in the total population that are in a condition of undernourishment). To reduce the effects of possible variations in diet in some of the underlying parameters, regional estimates are reported in a consistent manner over time. Source: WFP, UNICEF, FAO, UN Women, 2021. The State of Food Security and Nutrition in the World 2021. Translating Sustainable Development Goal 2 into action and addressing existing inequalities. Rome, Italy: Author. Information is available at: <https://www.wfp.org/publications/state-of-food-security-nutrition-2021>

© World Food Programme 2021

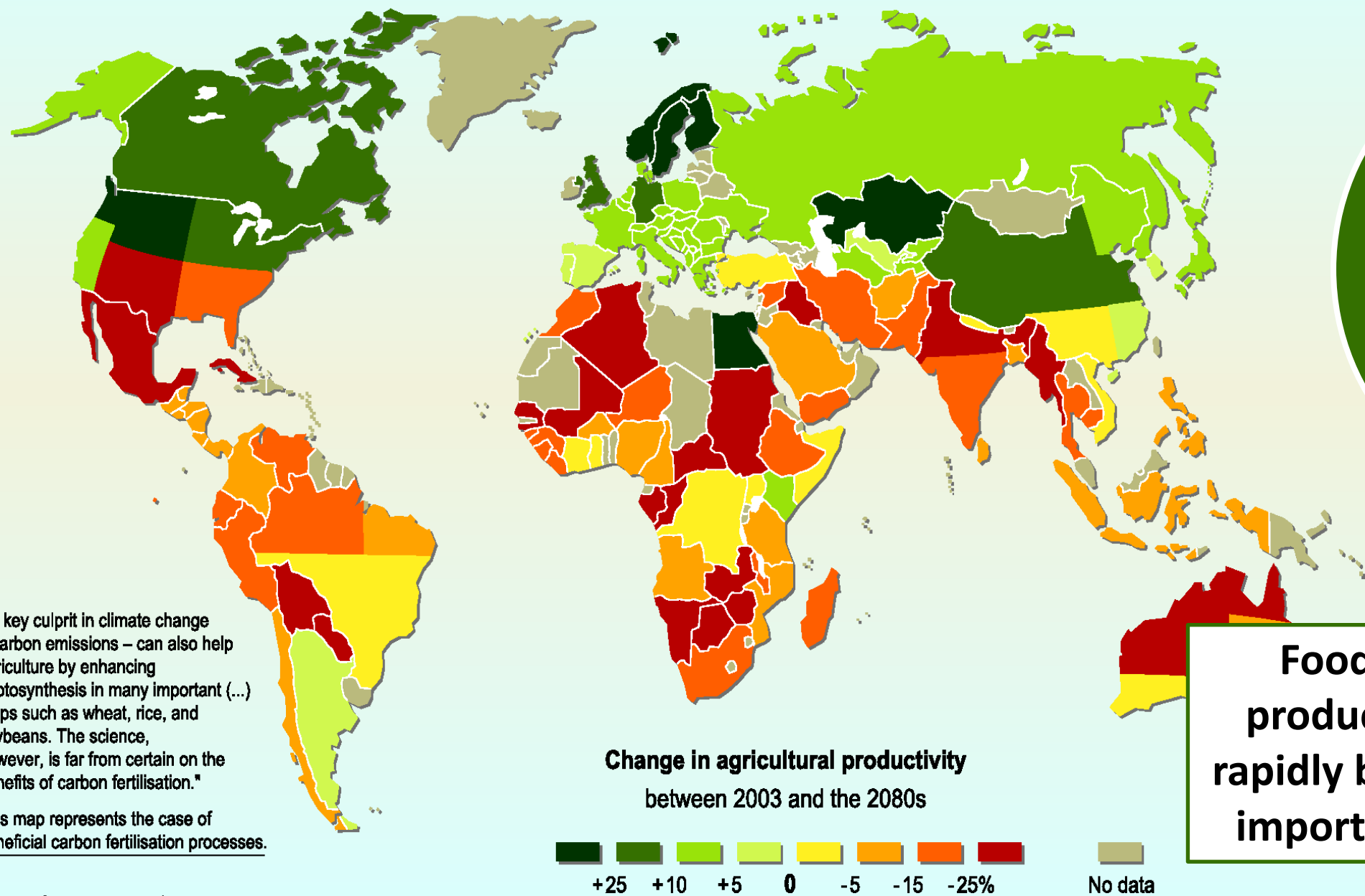
The information provided is for informational purposes only and does not constitute an offer or recommendation. It is not intended to be used as a basis for investment decisions. The information is provided as a service to the public and is not intended to be used as a basis for investment decisions. The information is provided as a service to the public and is not intended to be used as a basis for investment decisions.

— International Boundary   — Demarcation of International Administrative Line   — Other Line of Separation   — Special Boundary Line

World Food Programme

SAVING LIVES  
CHANGING LIVES

# Projected impact of climate change on agricultural yields



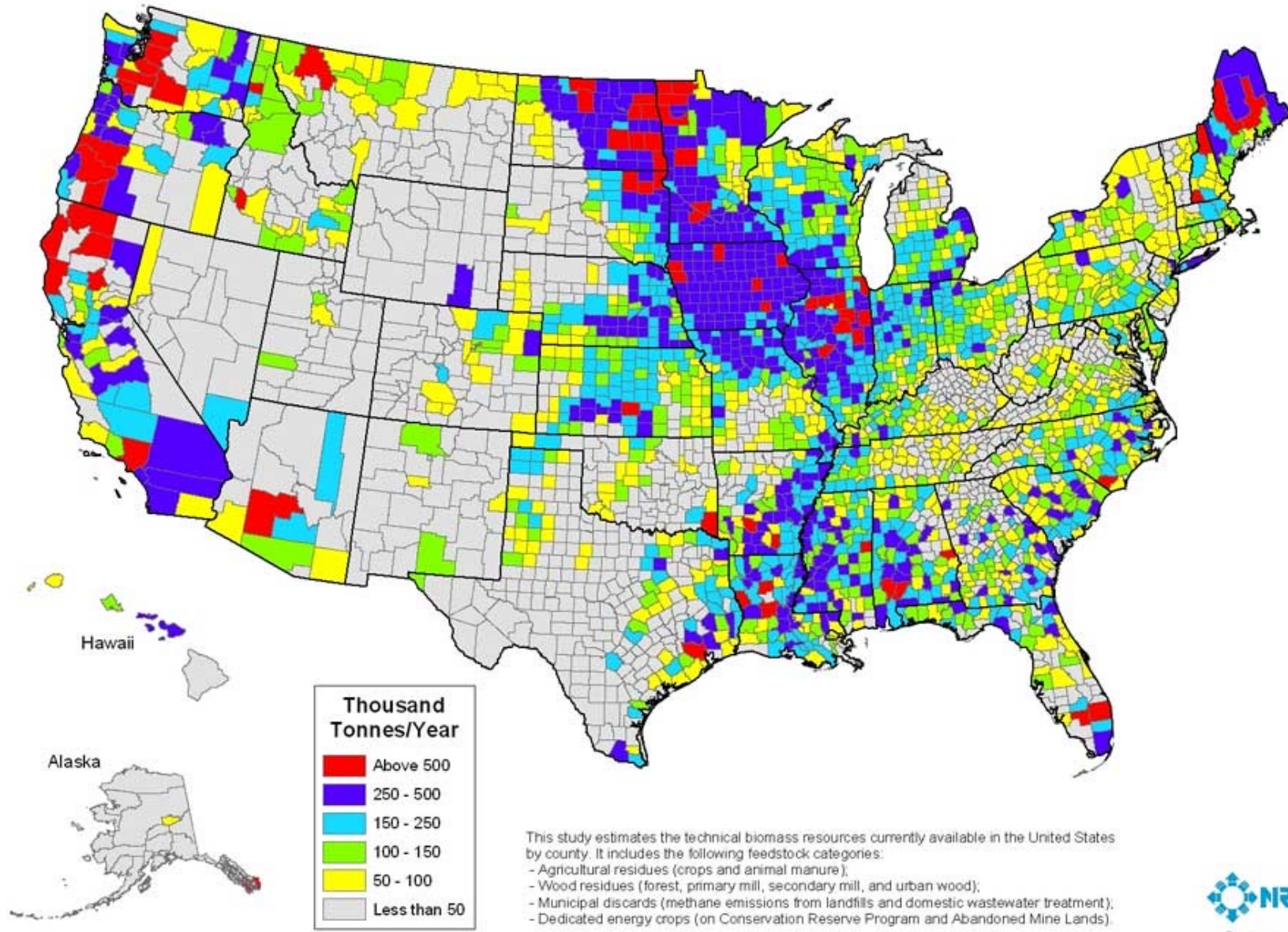
**Increases and decreases**

**Food security and production capability rapidly becoming a more important global issue**

" A key culprit in climate change – carbon emissions – can also help agriculture by enhancing photosynthesis in many important (...) crops such as wheat, rice, and soybeans. The science, however, is far from certain on the benefits of carbon fertilisation."  
This map represents the case of beneficial carbon fertilisation processes.

Source: Cline W., 2007, *Global Warming and Agriculture*.

## Biomass Resources Available in the United States



**Unique  
biomass  
capability**

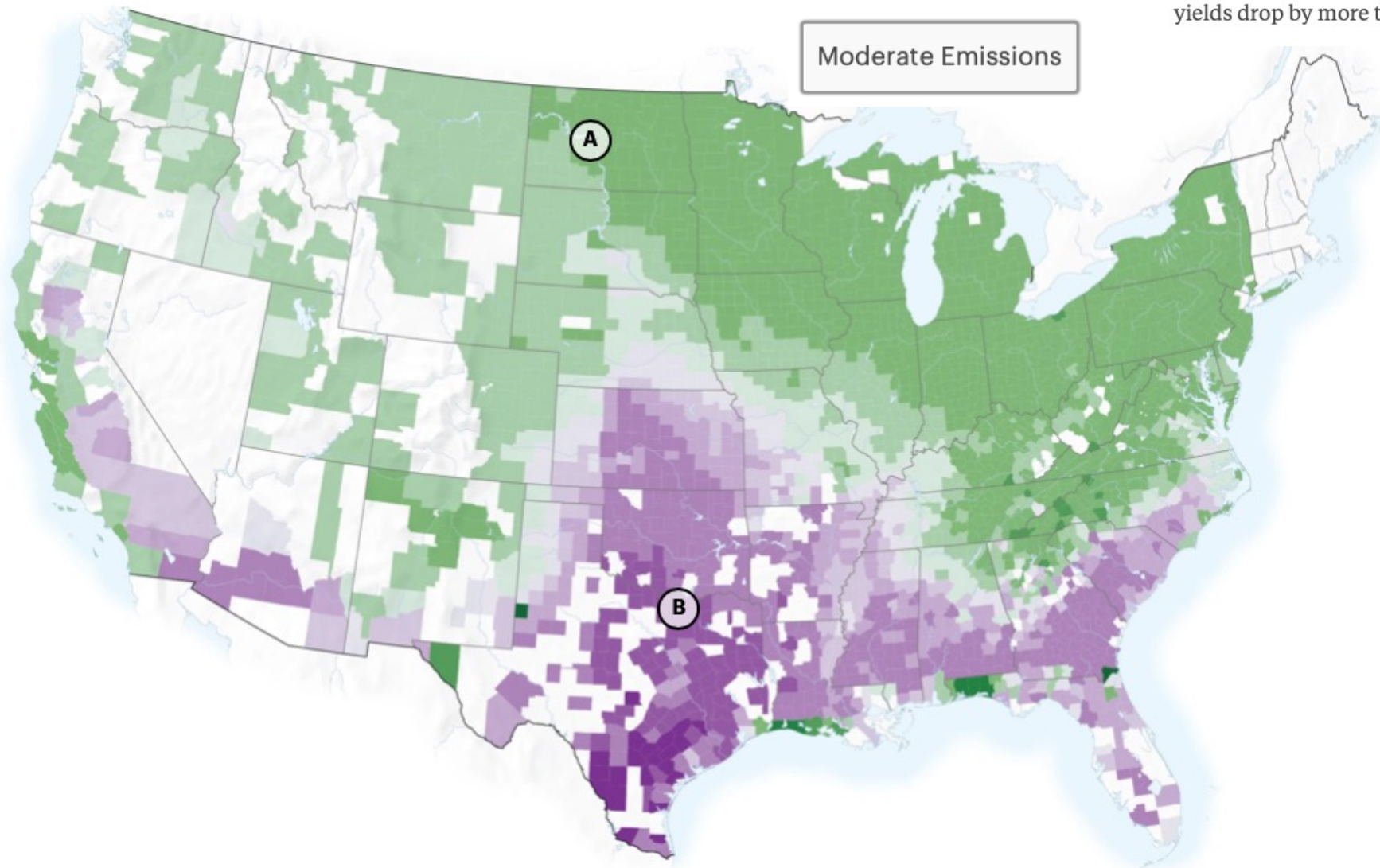
**Upper and Central  
Midwest bioeconomy  
likely to be more globally  
significant over coming  
decades**



September 2005



## Farm Crop Yields: 2040-2060

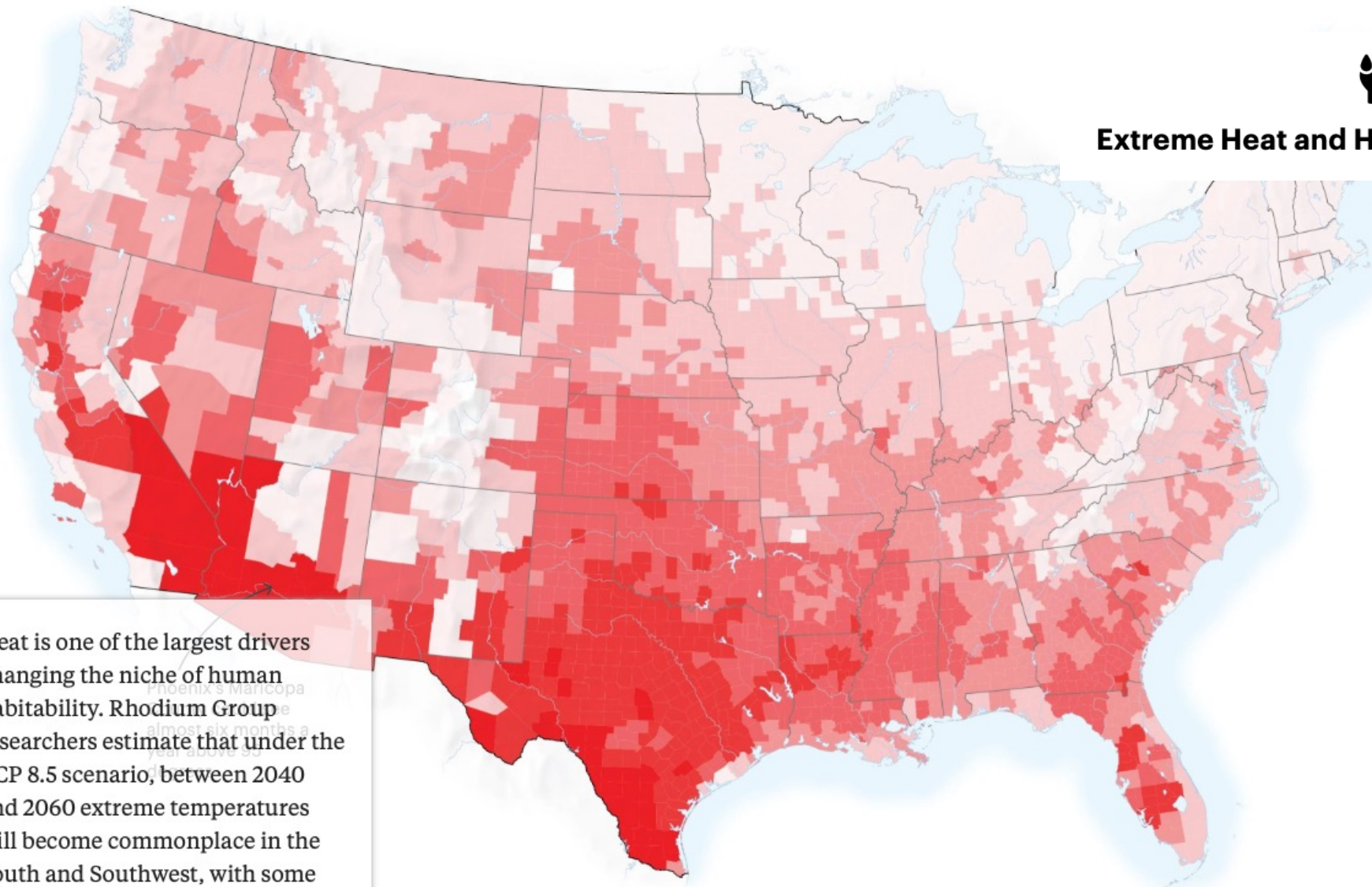


Corn and soy production is more sensitive to heat than drought, and it will decrease for every degree of warming. By midcentury, North Dakota (A), which already harvests millions of acres of both crops, will warm enough to allow for more growing days and higher yields. But parts of Texas and Oklahoma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





## Extreme Heat and Humidity: 2040-2060



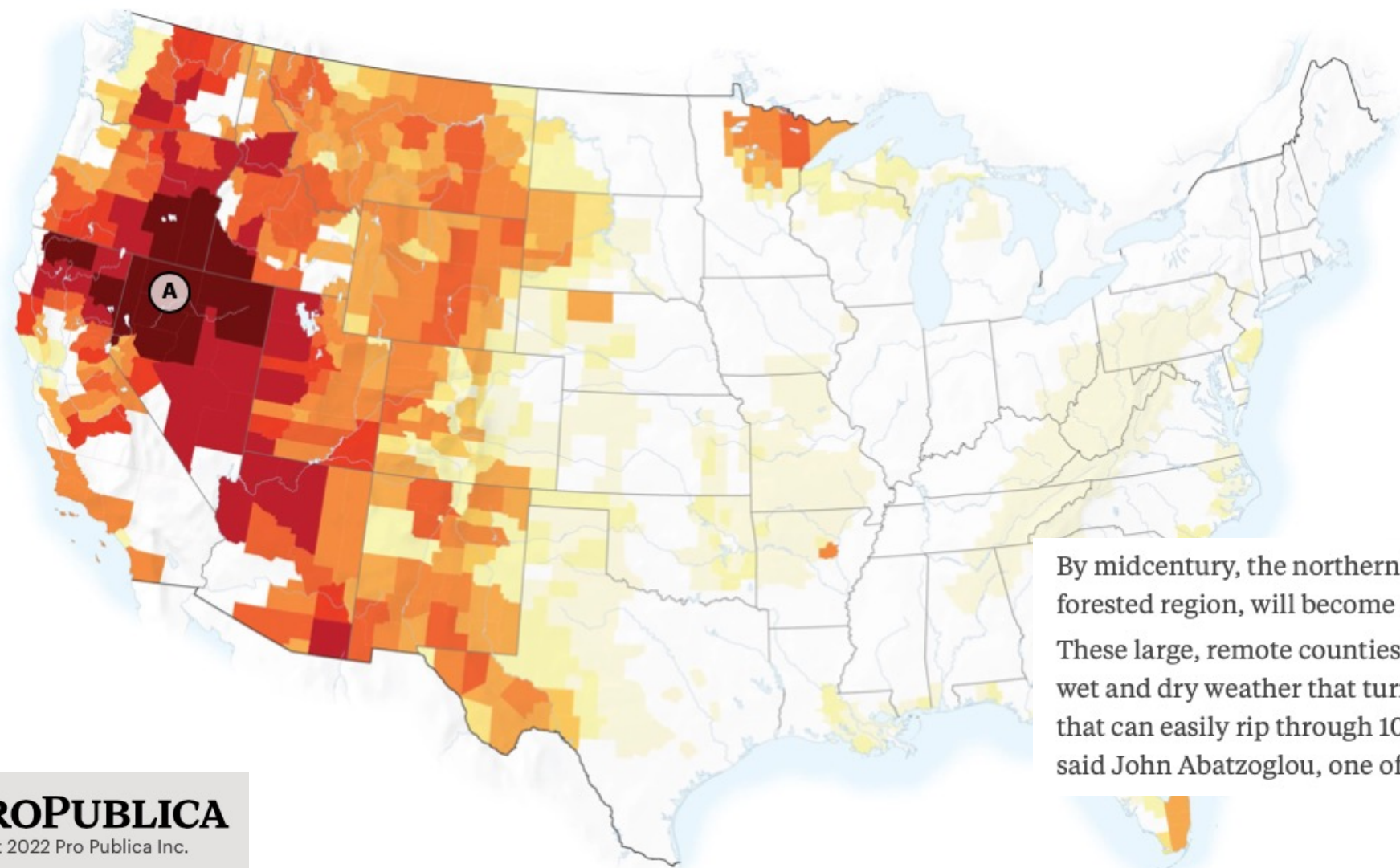
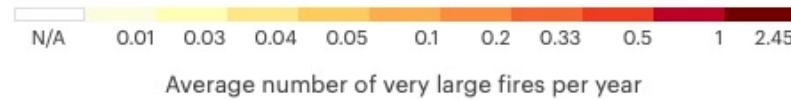
Heat is one of the largest drivers changing the niche of human habitability. Rhodium Group researchers estimate that under the RCP 8.5 scenario, between 2040 and 2060 extreme temperatures will become commonplace in the South and Southwest, with some counties in Arizona experiencing temperatures above 95 degrees for half the year.



High Emissions



## Large Wildfires: 2040-2071



By midcentury, the northern Great Basin, though not a densely forested region, will become the epicenter of large wildfires (A). These large, remote counties in Nevada and Oregon see cycles of wet and dry weather that turn the grassland into the fuel for fires that can easily rip through 10,000 acres a day with strong winds, said John Abatzoglou, one of the authors of the study.

High Emissions

Moderate Emissions

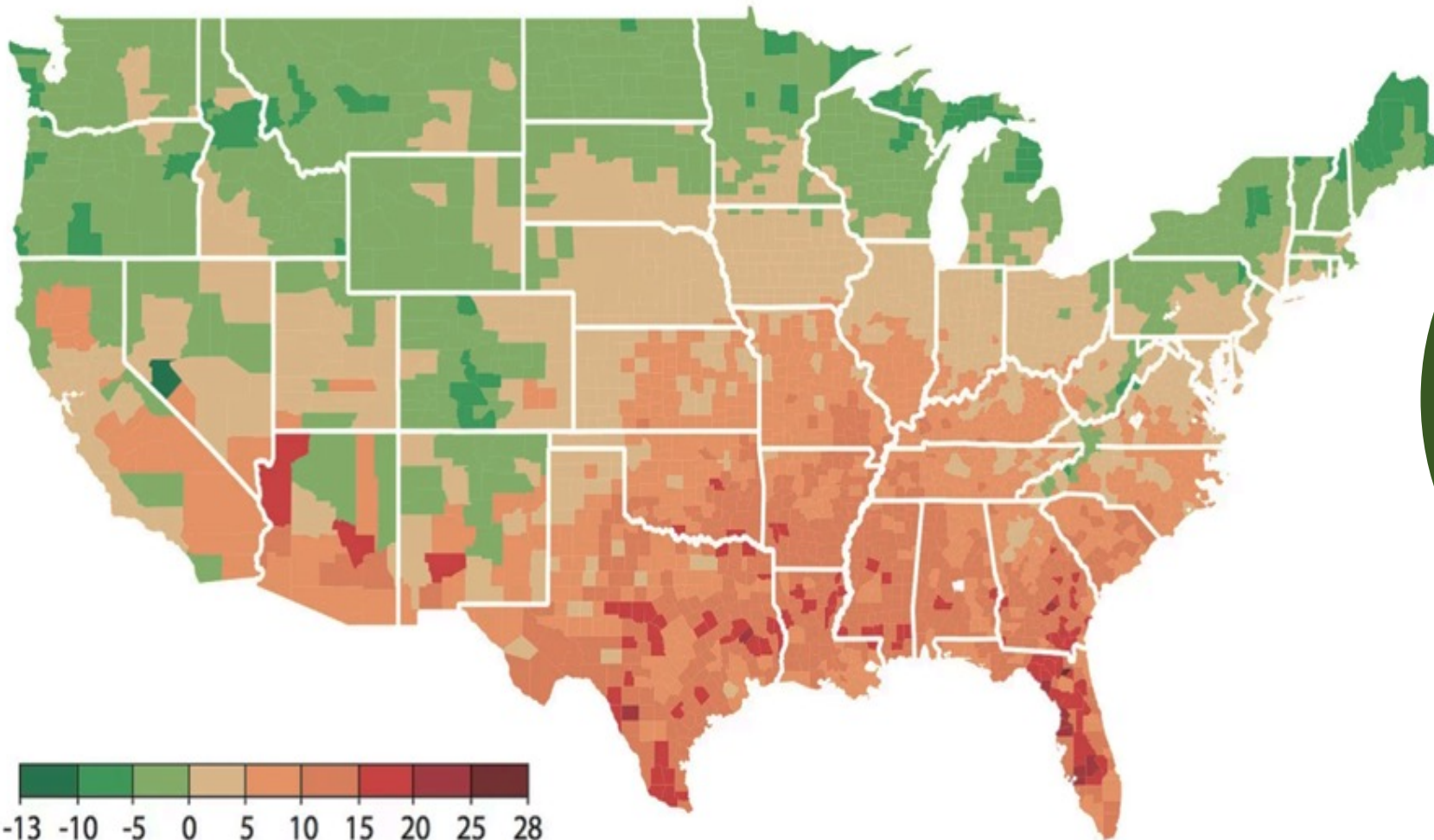


## Sea Level Rise: 2040-2060



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 U.S.





-13 -10 -5 0 5 10 15 20 25 28  
 Total economic damage (% county GDP)

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

**Long term  
 GDP impact  
 positive in  
 north**

**Climate change may  
 drive migration patterns  
 within US may move to  
 'north', and from 'west  
 to center'**

Source: [Christopher Joyce, MPR News, June 29, 2017](#)

# New Climate Maps Show a Transformed United States

by Al Shaw, Abrahm Lustgarten, ProPublica, and Jeremy W. Goldsmith,  
Special to ProPublica, September 15, 2020.

In the United States, that niche today blankets the heart of the country, from the Atlantic seaboard through northern Texas and Nebraska, and the California coast.

According to new data from the Rhodium Group analyzed by ProPublica and The New York Times Magazine, warming temperatures and changing rainfall will drive agriculture and temperate climates northward, while sea level rise will consume coastlines and dangerous levels of humidity will swamp the Mississippi River valley.

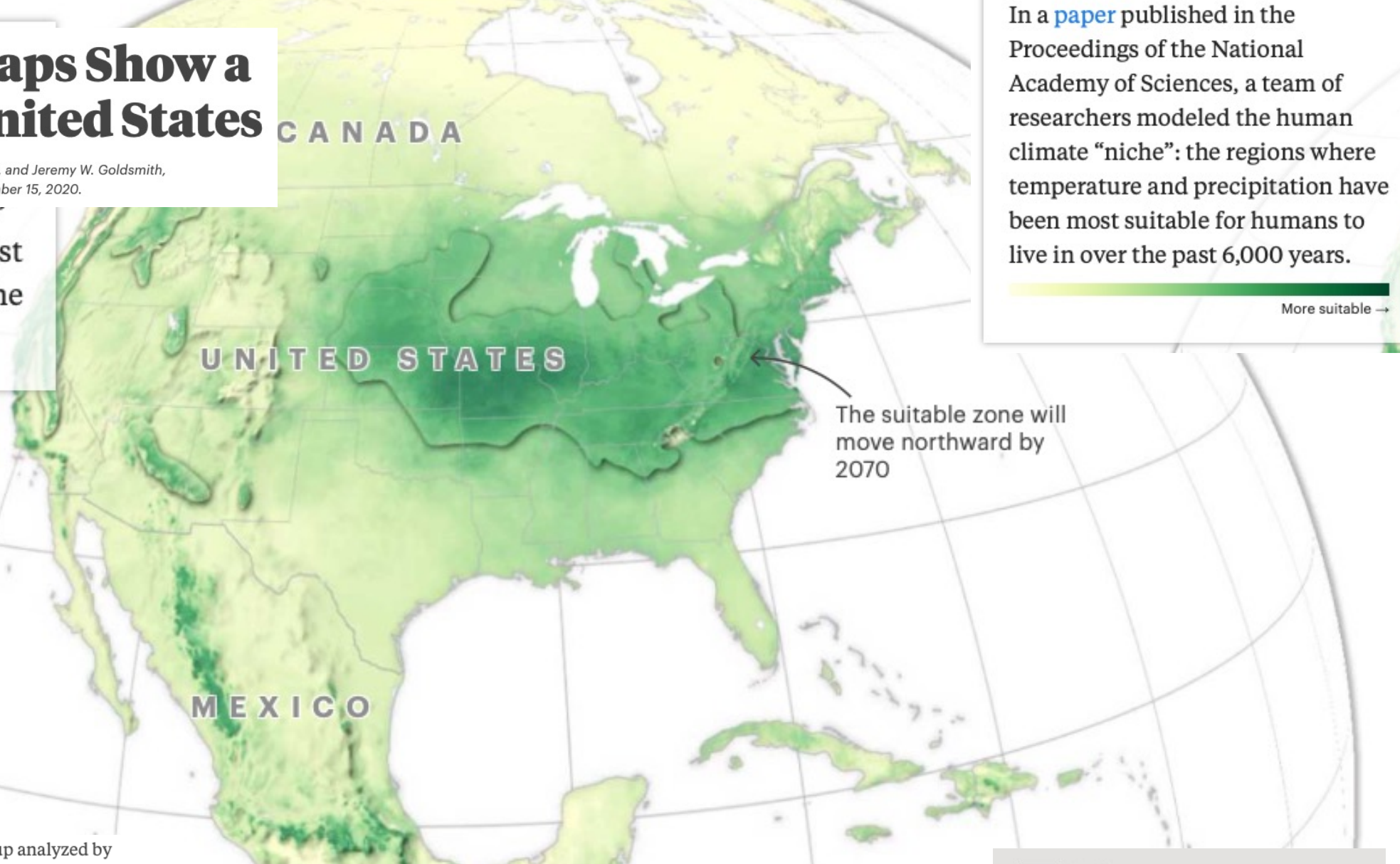


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SSIONS SCENARIO (KNOWN AS RCP  
, by 2070 much of the Southeast  
comes less suitable and the niche  
ts toward the Midwest.

In a [paper](#) published in the Proceedings of the National Academy of Sciences, a team of researchers modeled the human climate “niche”: the regions where temperature and precipitation have been most suitable for humans to live in over the past 6,000 years.



According to new data from the Rhodium Group analyzed by ProPublica and The New York Times Magazine, warming temperatures and changing rainfall will drive agriculture and temperate climates northward, while sea level rise will consume coastlines and dangerous levels of humidity will swamp the Mississippi River valley.

 **PROPUBLICA**  
© Copyright 2022 Pro Publica Inc.

<https://projects.propublica.org/climate-migration/>

# Predictions and observations

- Growing disconnect between where food will be consumed, and where it can be grown.
- 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

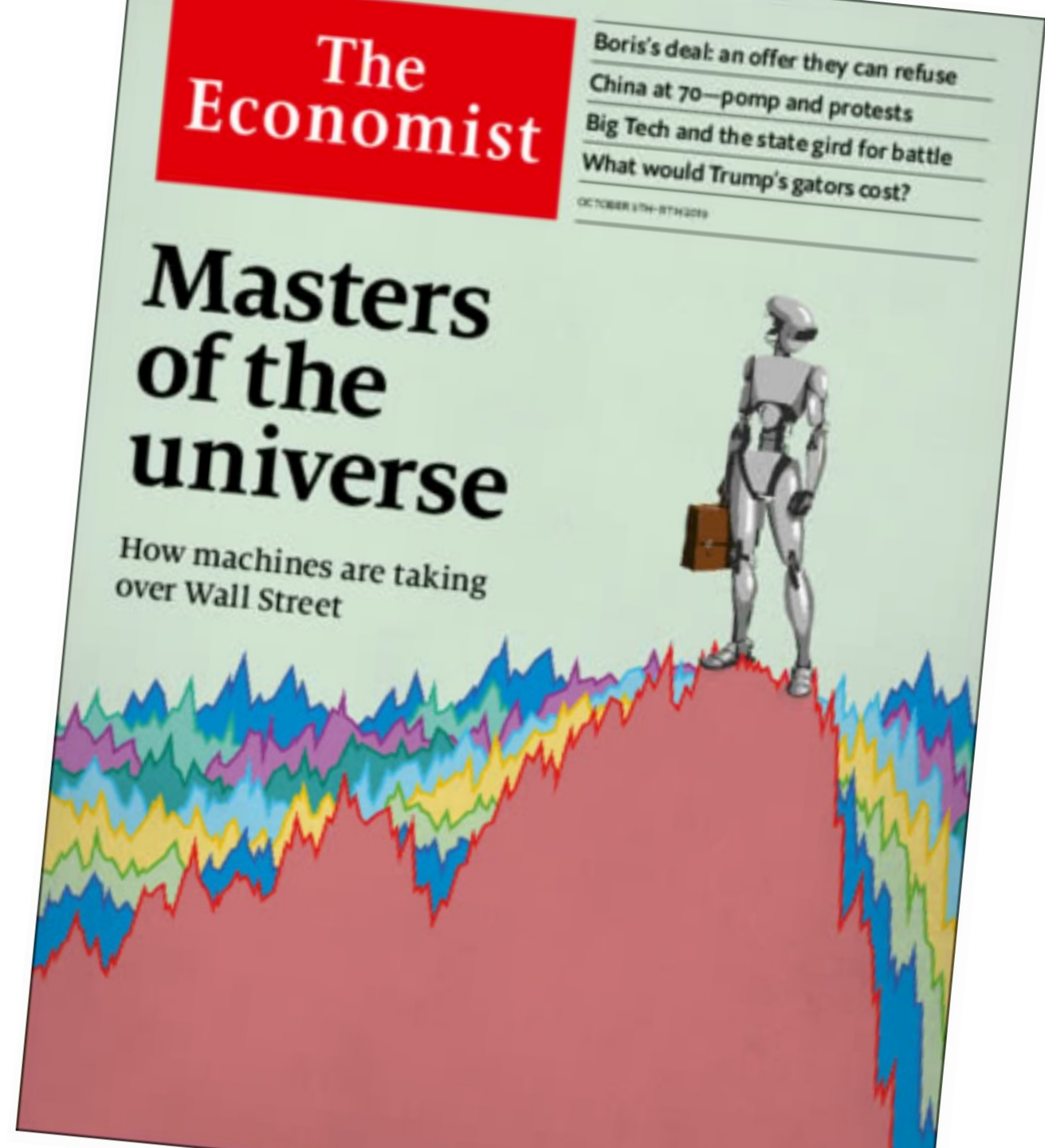
What do these trends mean for the  
the future of KCK?



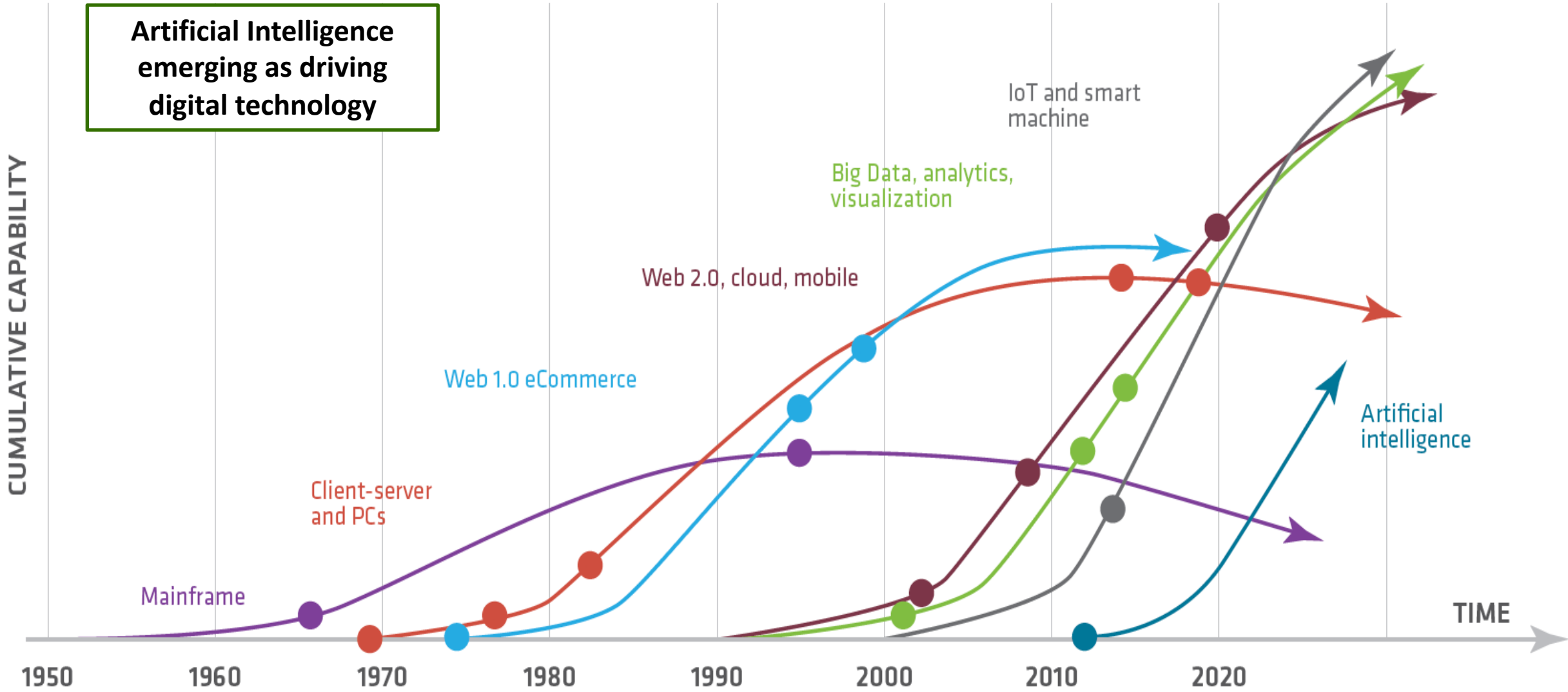




# Technology and the speed of change



# THE INCREASING CAPABILITY OF DIGITAL TECHNOLOGIES

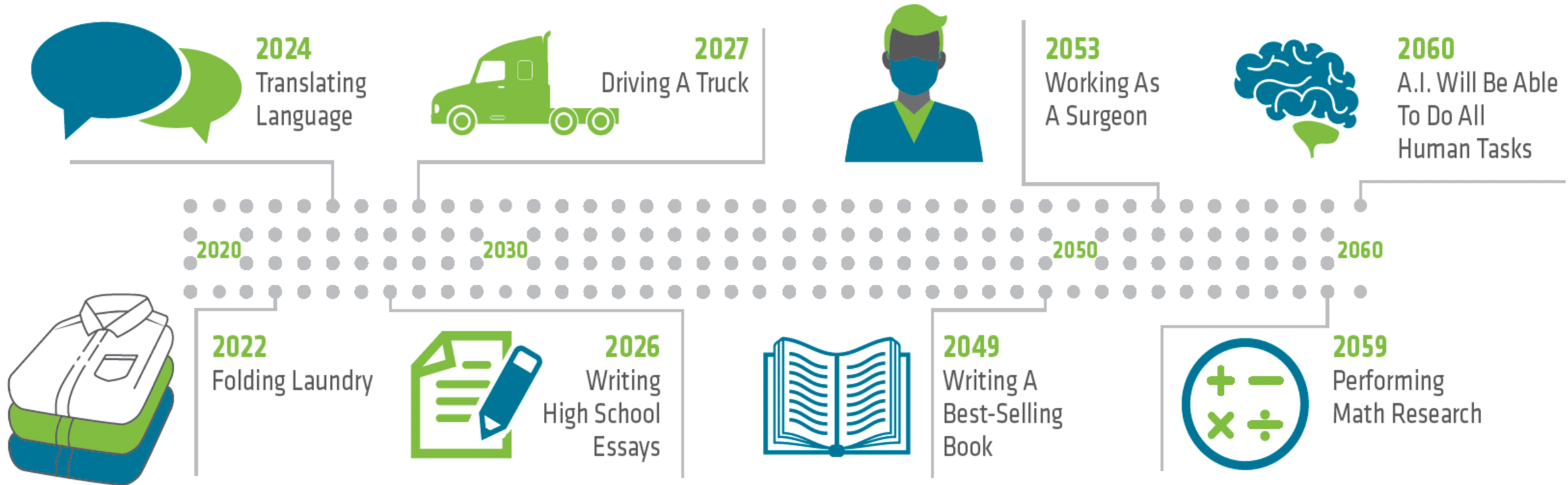


Digital Transformation Initiative Mining and Metals Industry, White Paper, World Economic Forum / Accenture analysis, January 2017

# When will AI outperform people?

AI 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) <sup>12</sup>

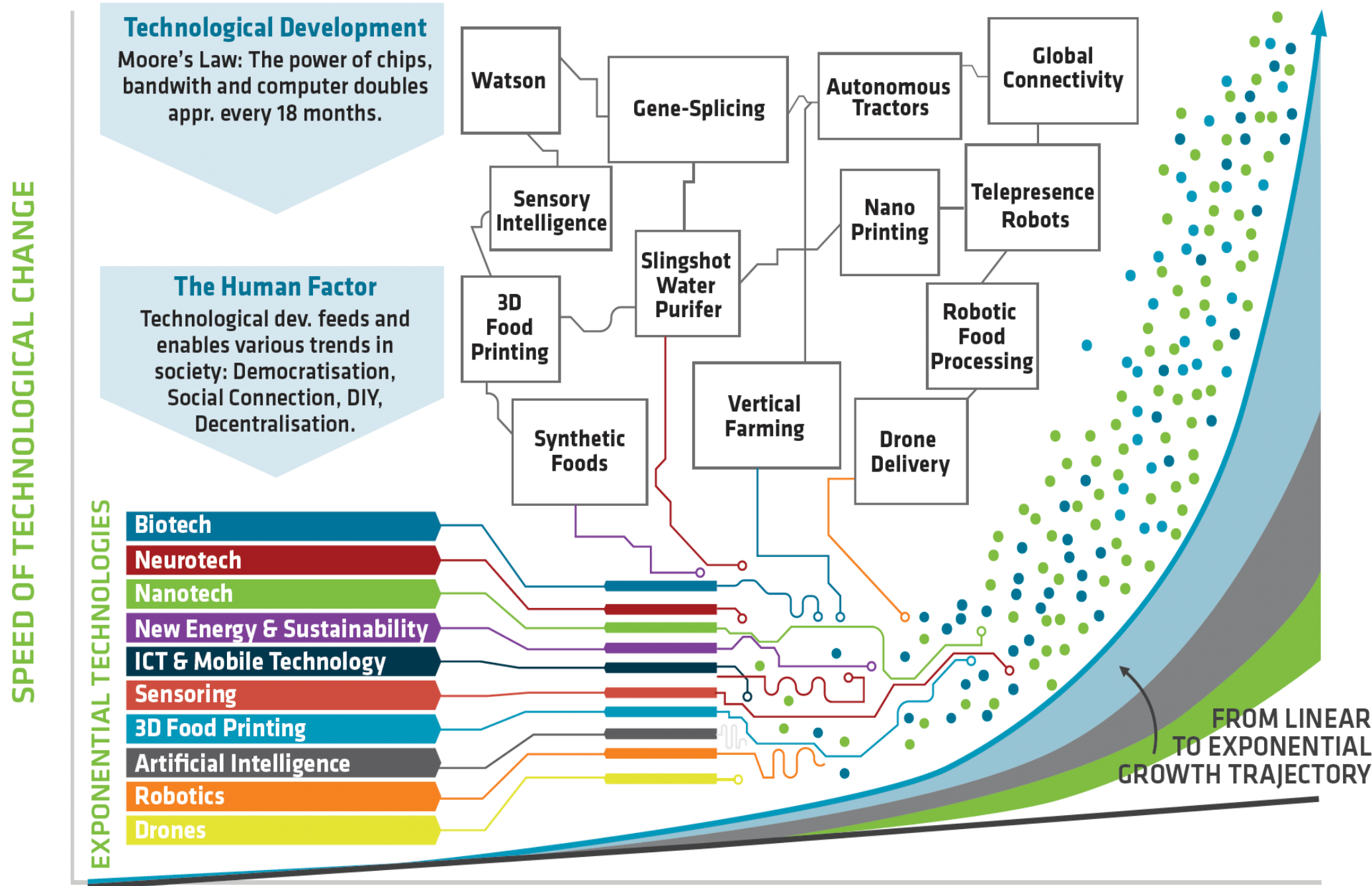
Reproduced from Next Industrial Revolution, Future iQ, 2018



Source: New Yorker Oct 23, 2017, and Max Planck Research 2009

# Rapid systemic change and technology integration

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





# 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 all these future trends mean for the  
future of KCK?

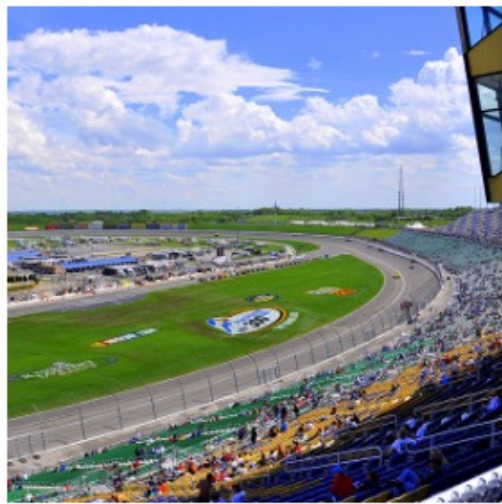




# PlanKCK



## Future Scenario Matrix

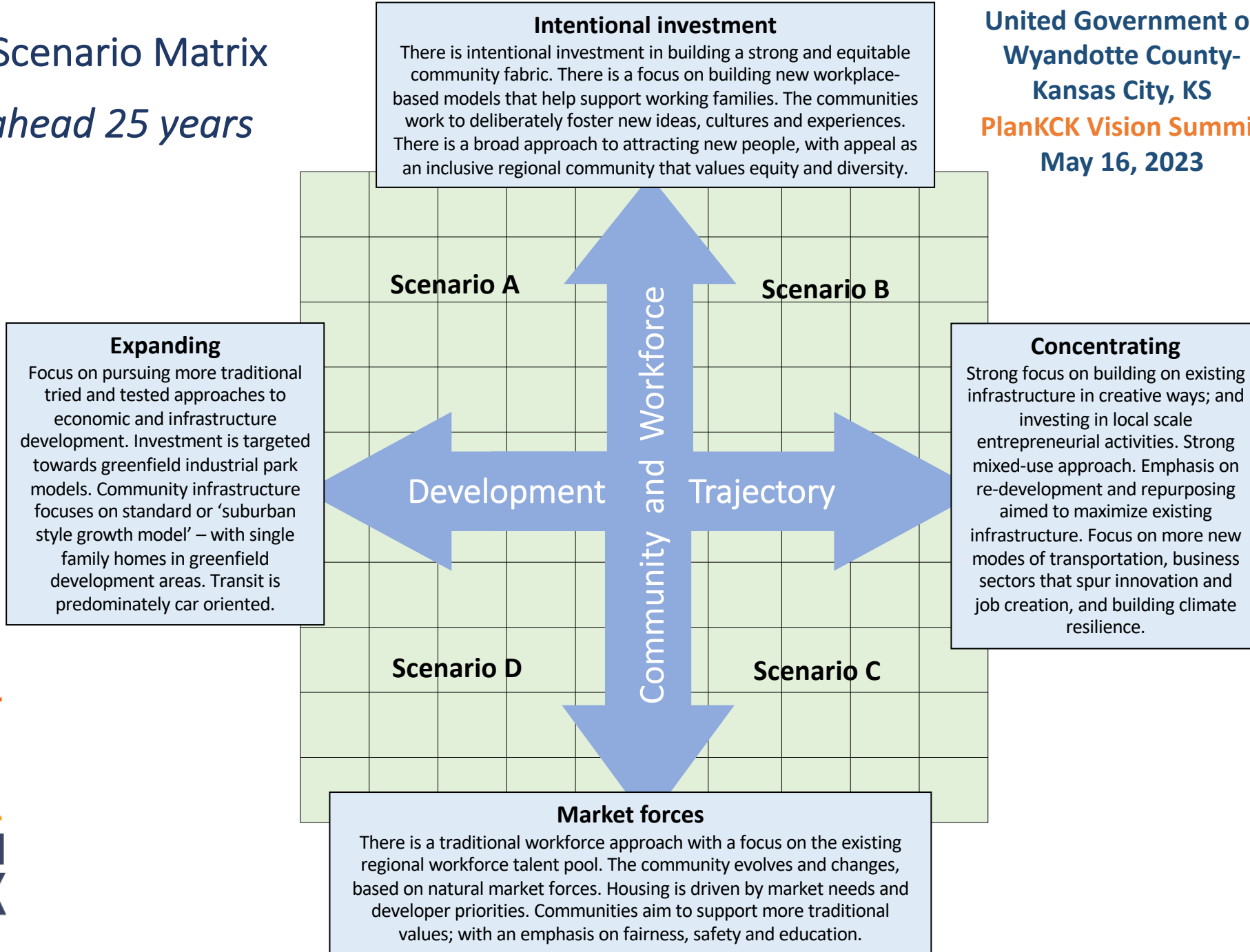




# Plausible Scenario Matrix

## Looking ahead 25 years

United Government of  
Wyandotte County-  
Kansas City, KS  
PlanKCK Vision Summit  
May 16, 2023



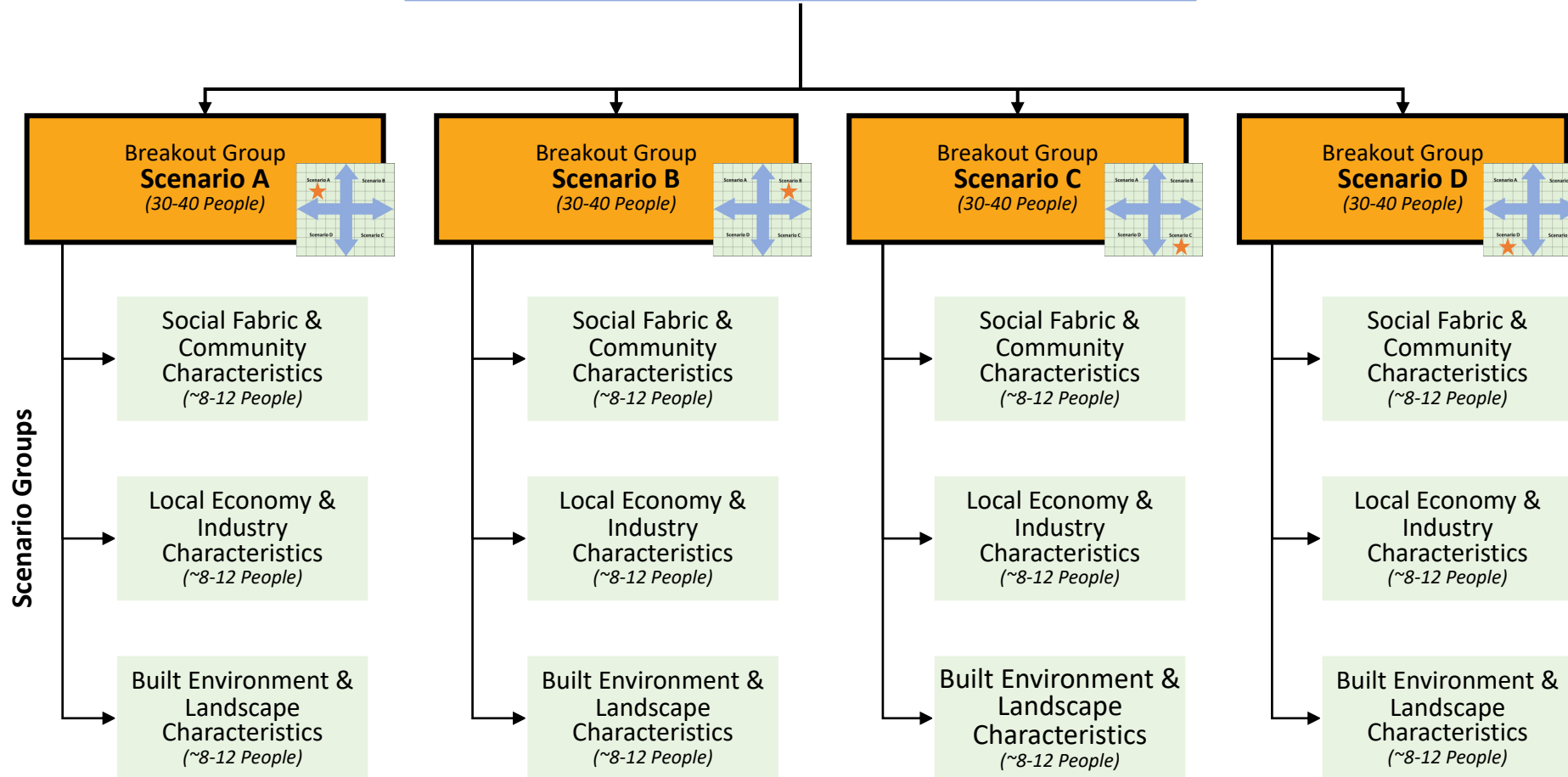


# Summary Overview



## Vision Summit Participants

During the Summit, Future iQ will assign each participant one of the Scenario Breakout Groups (A, B, C, D). Once these groups are formed, participants will be further divided into three smaller groups around three key themes.



**Scenario name (A): DRAFT**

**Social Fabric and Community  
Characteristics – In 25 years**

**Local Economy and Industry  
Characteristics – In 25 years**

**Built Environment and Landscape  
Characteristics – In 25 years**



# Scenario Characteristics - Dimensions to Consider



## Social Fabric and Community Characteristics

- Population makeup / demographics
- Key social infrastructure – housing, childcare, schools, parks, amenities
- Social safety-net (poverty, wellness etc.) and nonprofits' profile and role
- Workforce and skills profiles, workplace models and opportunity
- Community vitality; arts and culture - feel and 'vibe'
- Community inclusiveness and values
- Role of educational institutions and models of education

SUGGESTED  
TOPICS

## Local Economy and Industry Characteristics

- Businesses and industry sectors (warehousing, manufacturing, logistics, retail, education, health, technology, recreation, tourism)
- Type and size of industries - distribution across UG
- Hard infrastructure (roads, water, transport, energy systems)
- Development patterns in industry and communities
- Level of innovation and investment
- Urban core characteristics

## Built Environment and Landscape Characteristics

- Housing types, retail availability
- Transportation systems and geographic location
- Natural resource usage and river access
- Adaptation to climate change / severe weather events
- Streetscapes and recreation amenities
- Green economy implementation
- Energy systems and sources



# Headline News (Scenario A)

<b>Social Fabric and Community Characteristics</b>	<b>Local Economy and Industry Characteristics</b>	<b>Built Environment and Landscape Characteristics</b>
<b>2025</b>	<b>2025</b>	<b>2025</b>
<b>2030</b>	<b>2030</b>	<b>2030</b>
<b>2040</b>	<b>2040</b>	<b>2040</b>





## Avoiding potential pitfalls.....

- Stay in your swim lane (your scenario)
- Don't try to 'fix' the scenario
- We are doing objective forecasting and predictive - don't get emotionally hooked
- We are exploring possible futures; not deciding on preference
- Scan and predict widely – don't get micro-focused
- Make it a group discussion, everyone has a perspective to contribute





## Roles

- Facilitator
- Timekeeper
- Recorders
- Presenter(s)





## Suggested Scenario Group Timeline (elapsed time - minutes)

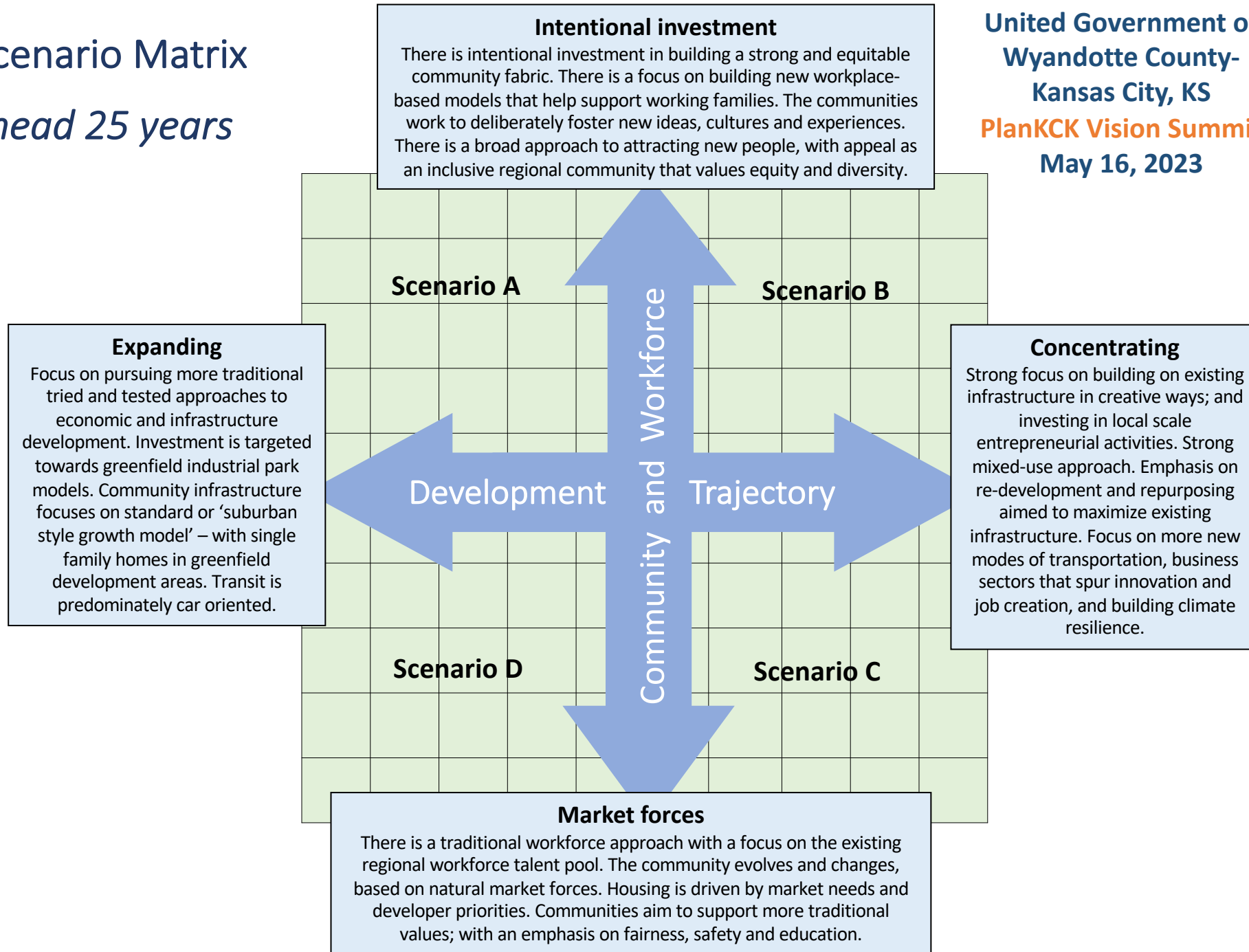
0:00 min	Group to meet and scope out scenario (10m)
0:10 min	Develop Characteristics & Narratives (35m)
0:45 min	Develop Headlines News – 2025, 2030, 2040 (10m)
0:55 min	Short scenario name and description (5m)
0:60 min	Return; ready to present



# Plausible Scenario Matrix

## Looking ahead 25 years

United Government of  
Wyandotte County-  
Kansas City, KS  
PlanKCK Vision Summit  
May 16, 2023





# Plan KCK Vision Summit

## Expected, Preferred and Least Desirable Futures Heatmaps



Expected, Preferred and Least Desired of the Future – What do you think?

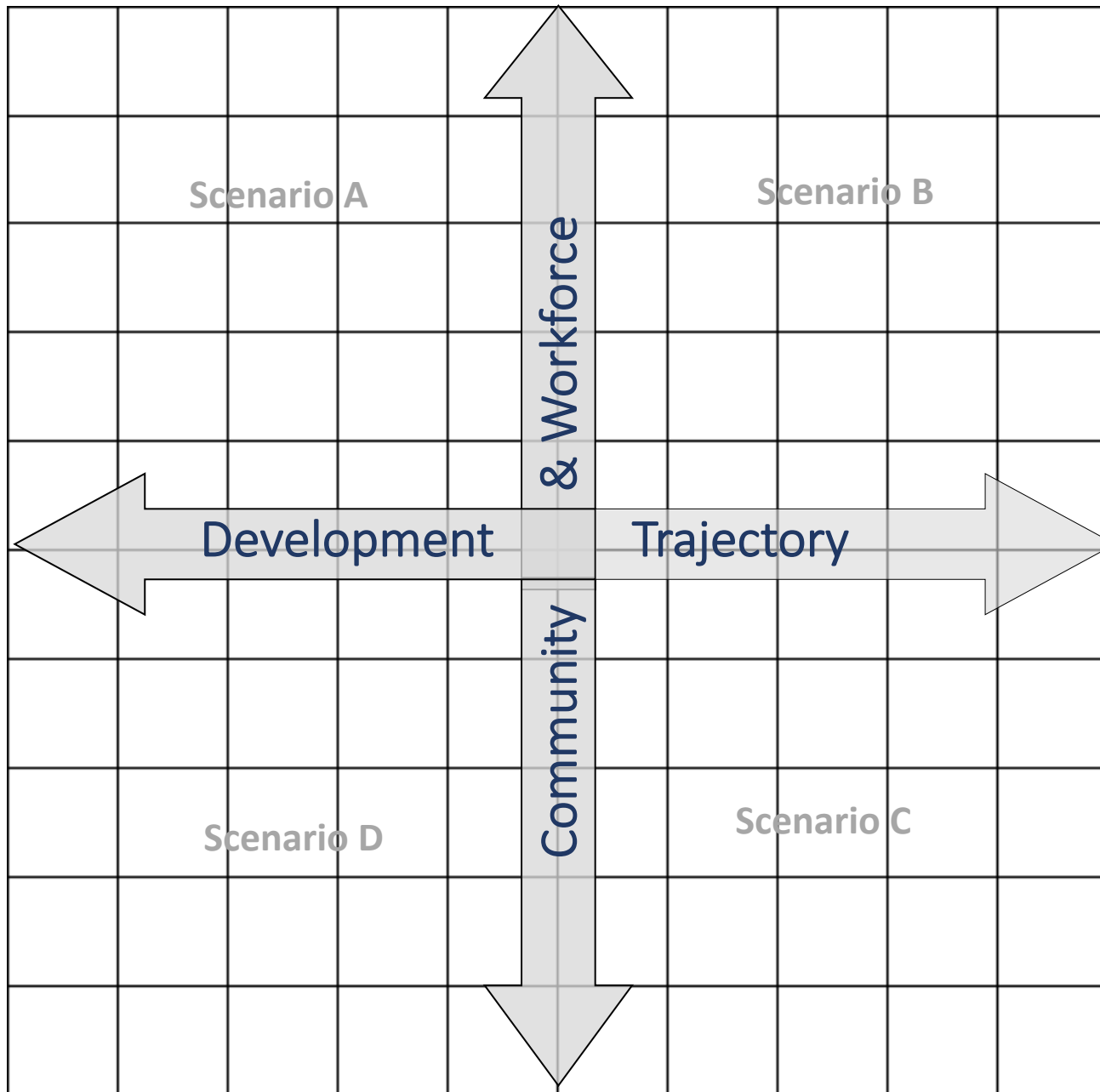
- 1. LEAST DESIRABLE FUTURE** - The Least Desirable Future is the future that you think will be most undesirable (or least optimal or least desired) future.
- 2. EXPECTED FUTURE:** The Expected Future is the future you expect most likely to eventuate, if existing trends and trajectory persists.
- 3. PREFERRED FUTURE:** The Preferred Future is the future you think is optimal and creates the best outcome for KCK in the future.

Intentional investment



Y AXIS

Expanding



Scenario A

Scenario B

Development

Trajectory

Scenario D

Scenario C

Concentrating

Market forces



X AXIS



PlanKCK  
Vision Summit  
Heatmaps

16 May 2023

Instructions

On the grid at the left,  
please assign coordinates  
for the following:

- LEAST DESIRABLE FUTURE (L)
- EXPECTED FUTURE (E)
- PREFERRED FUTURE (P)



PLAN  
KCK



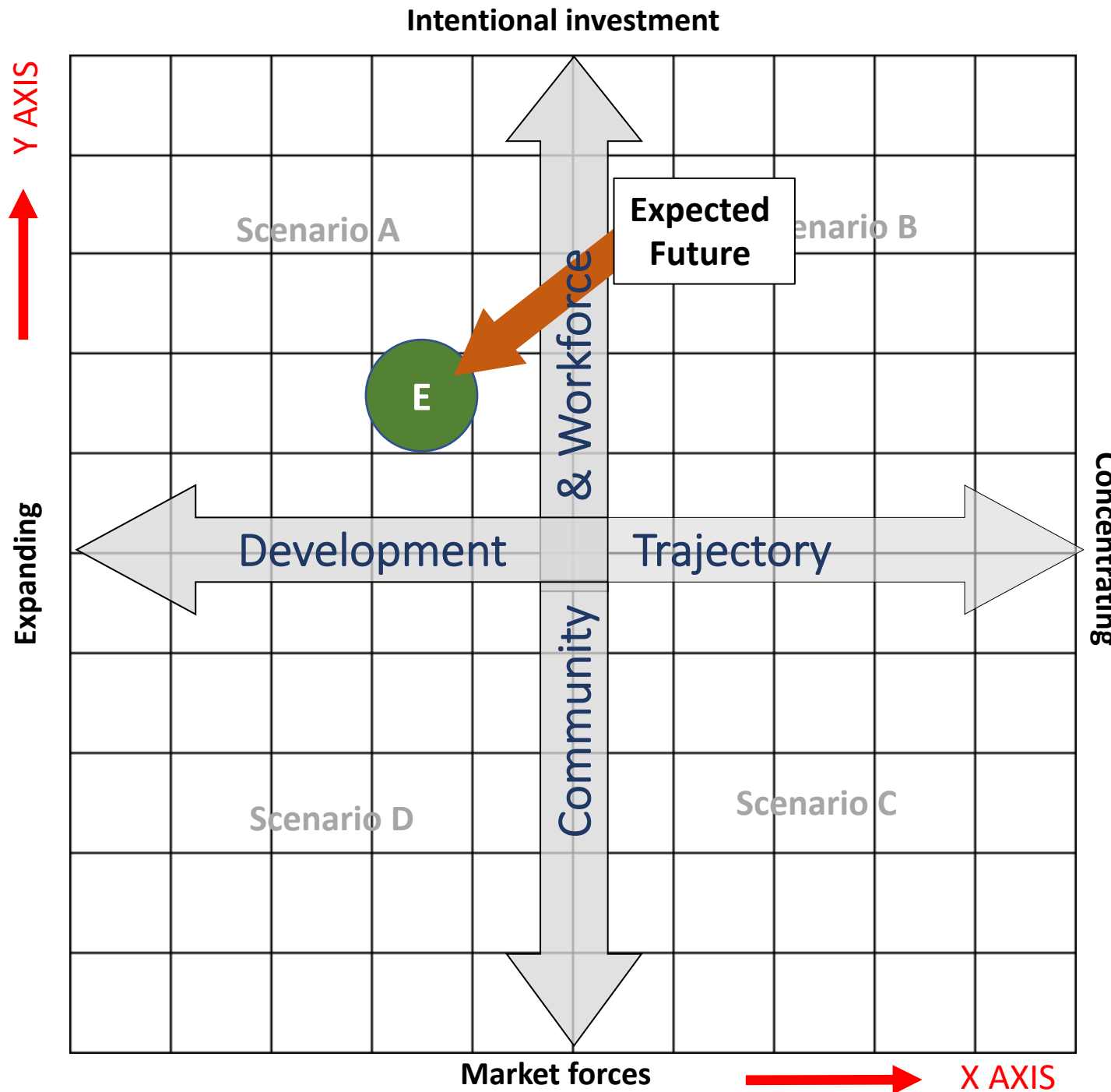
**PlanKCK  
Vision Summit  
Heatmaps**

**16 May 2023**

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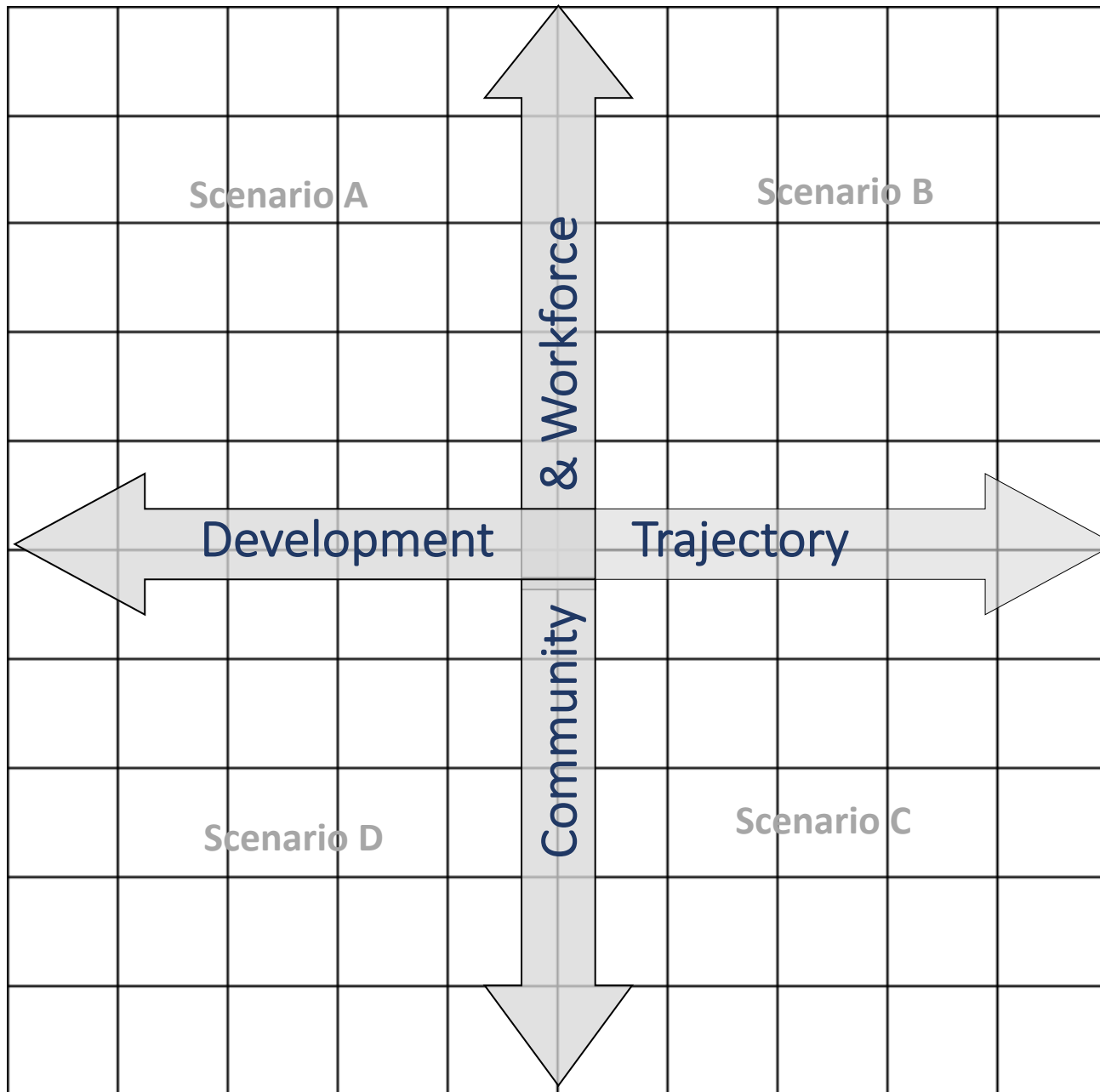


Intentional investment



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PlanKCK  
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Heatmaps

16 May 2023

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PLAN  
KCK



Unified Government of Wyandotte  
County-Kansas City, Kansas

# PLANKCK VISION SUMMIT

Tuesday, May 16, 2023 | 9:00am - 1:00pm



**PLAN  
KCK**

# Thank you!

[www.wycokck.org/plankck](http://www.wycokck.org/plankck)

