



WELCOME TO THE
SMITHVILLE SCHOOL DISTRICT
STRATEGIC ACTION PLANNING
PROJECT



**Smithville School District 'Future of Learning' Think-Tank
17 & 18 November 2022**



**Think-Tank
Day 1**



Smithville School District Future of Learning Think-Tank Workshop

AGENDA

We are looking forward to your participation at the Smithville School District Think-Tank Workshop. This will be an engaging and interactive scenario-planning workshop that **takes place over the course of 2 sessions.**

Session 1

Date: Thursday, November 17, 2022

Time: 8:00am - 12:00pm

Location: Family Worship Center
98 Stonebridge Lane
Smithville, MO 64089

Session 2

Date: Friday, November 18, 2022

Time: 8:00am - 12:00pm

Location: Family Worship Center
98 Stonebridge Lane
Smithville, MO 64089

- 8:00 am** Registration / Breakfast
- 8:20 am** Welcome and Introductions
- 8:30 am** Future Trends, Emergent Issues, Survey Results, and Connection to Smithville
- 9:30 am** Scenario Narrative Development
- 11:00 am** Reconvene - Scenario Presentations
- 11:30 am** Scenario Implications & Analysis
- 11:45 am** Plausibility Heatmaps
- 12:00 pm** Finish Day One - Recap & Set Up for Day Two

- 8:00 am** Registration / Breakfast
- 8:30 am** Recap of Day One
- 9:00 am** 'Portrait of a Graduate' Development - Key Characteristics Identification
- 10:10 am** Prioritizing Characteristics
- 10:30 am** Break
- 10:45 am** Strategy Development
- 11:25 am** Reconvene & Report Out
- 11:55 am** Next Steps
- 12:00 pm** Finish Day Two





WELCOME TO THE
SMITHVILLE SCHOOL DISTRICT
STRATEGIC ACTION PLANNING
PROJECT



Future Trends. Emergent Issues and Survey Results



Think-Tank
Day 1





The Importance of Future Thinking

The key to effective future thinking...

- Explore and anticipate a range of plausible futures.
- Consider both **trajectory** (direction of change) and **velocity** (speed of change).

Explore potential 'shape and contours' of the future.



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.

SMITHVILLE



School District

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



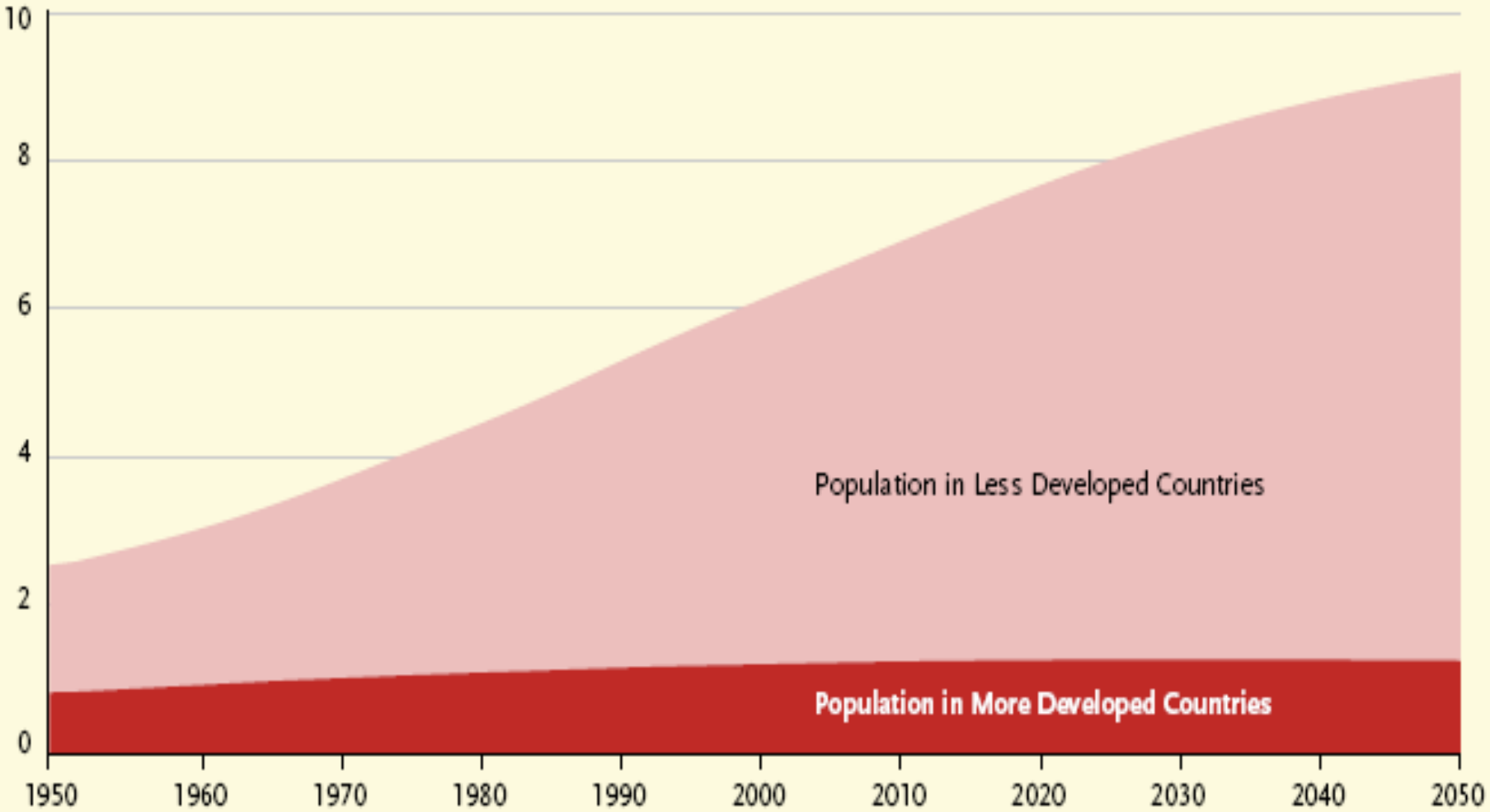


Demographics, population and mass urbanization

future→iQ

Global Population Growth Is Driven By Developing Countries.

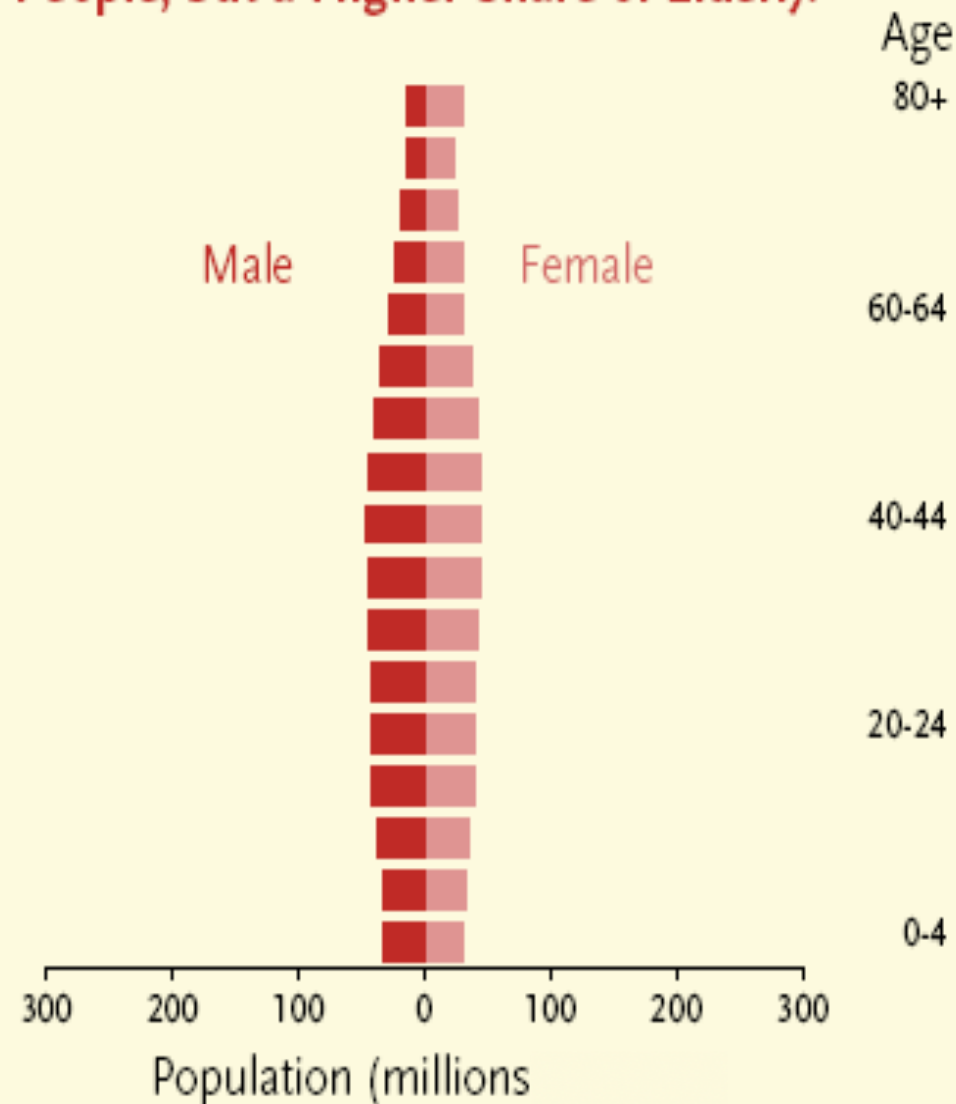
World population in billions, 1950-2050 (projected)



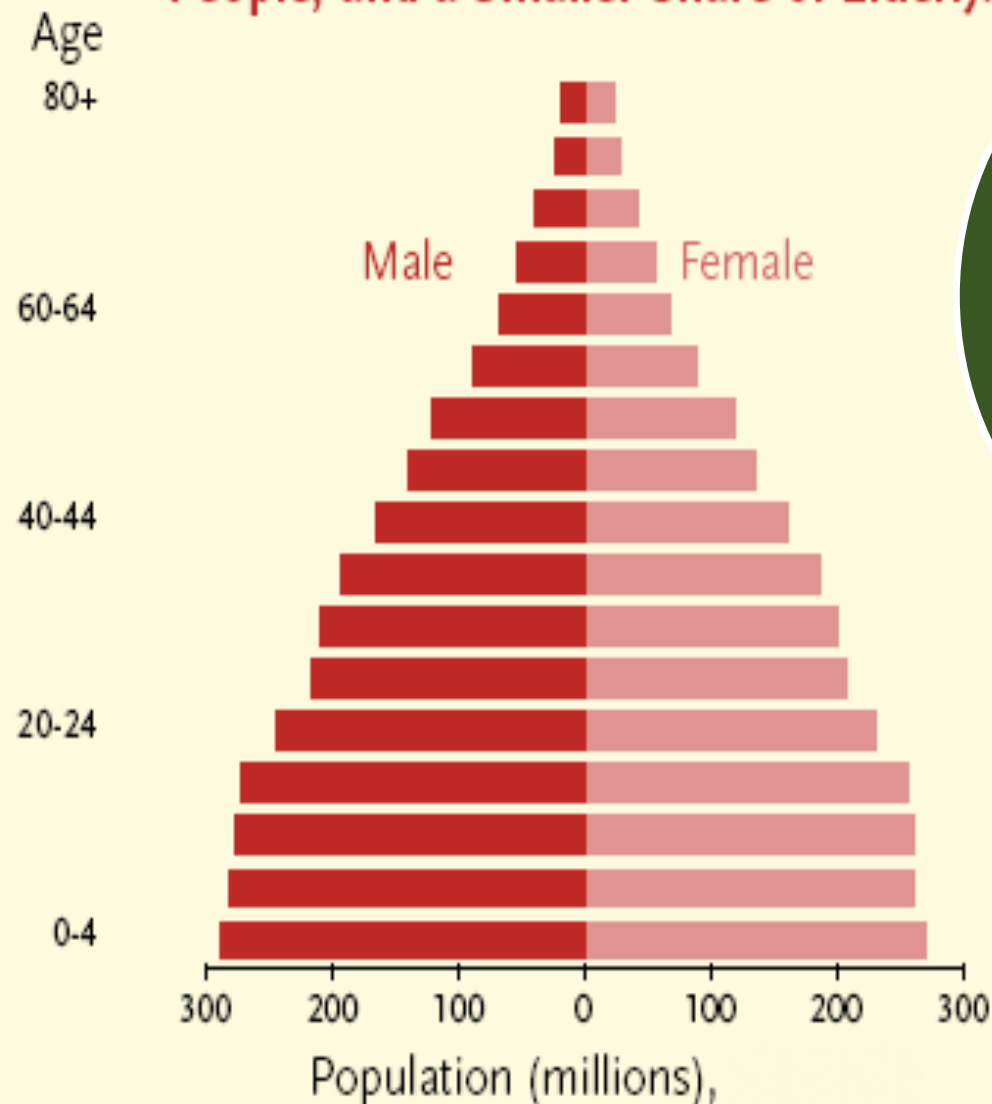
Global population

SOURCE: United Nations, *World Population Prospects*.

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

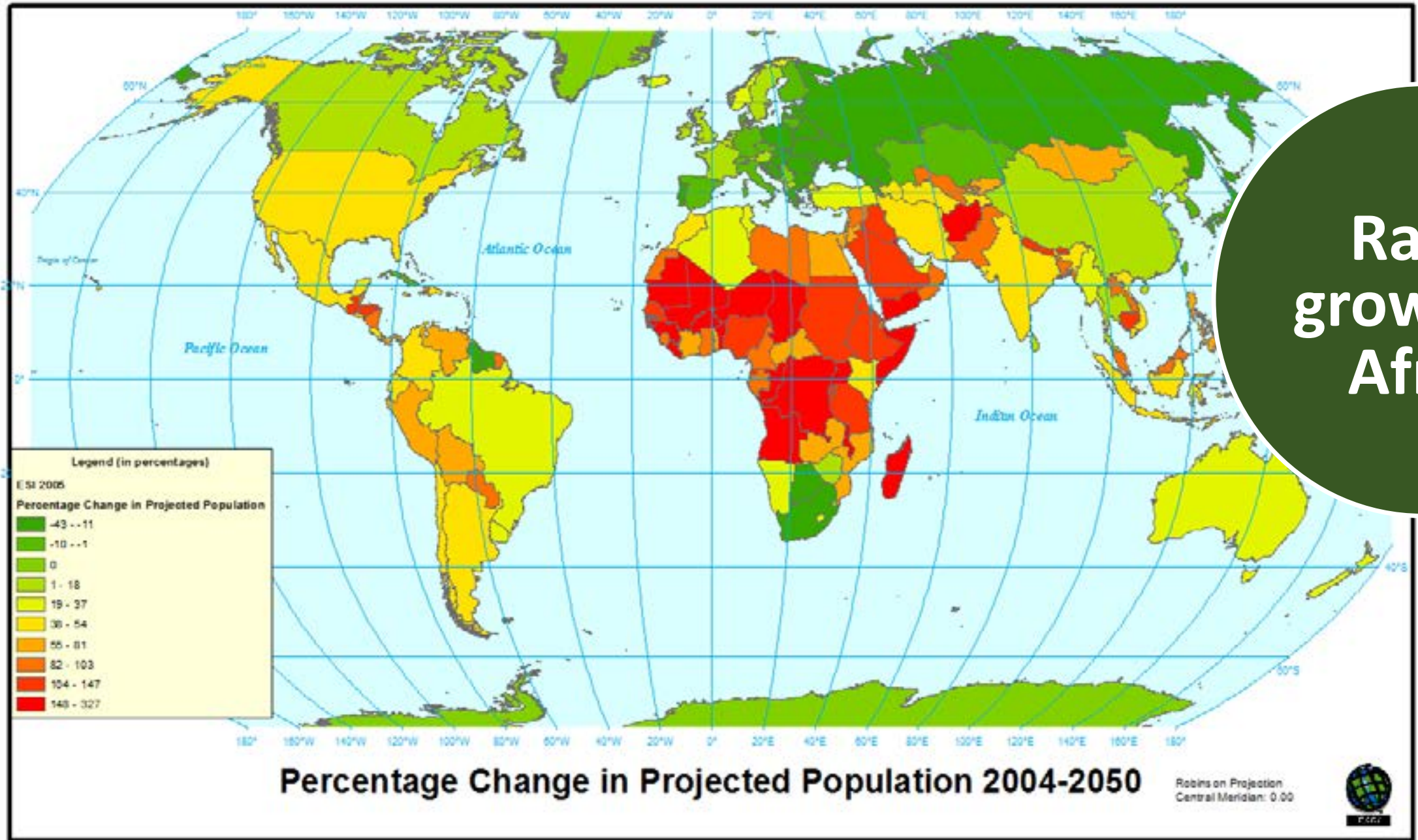


Developing Countries Have More Young People, and a Smaller Share of Elderly.



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



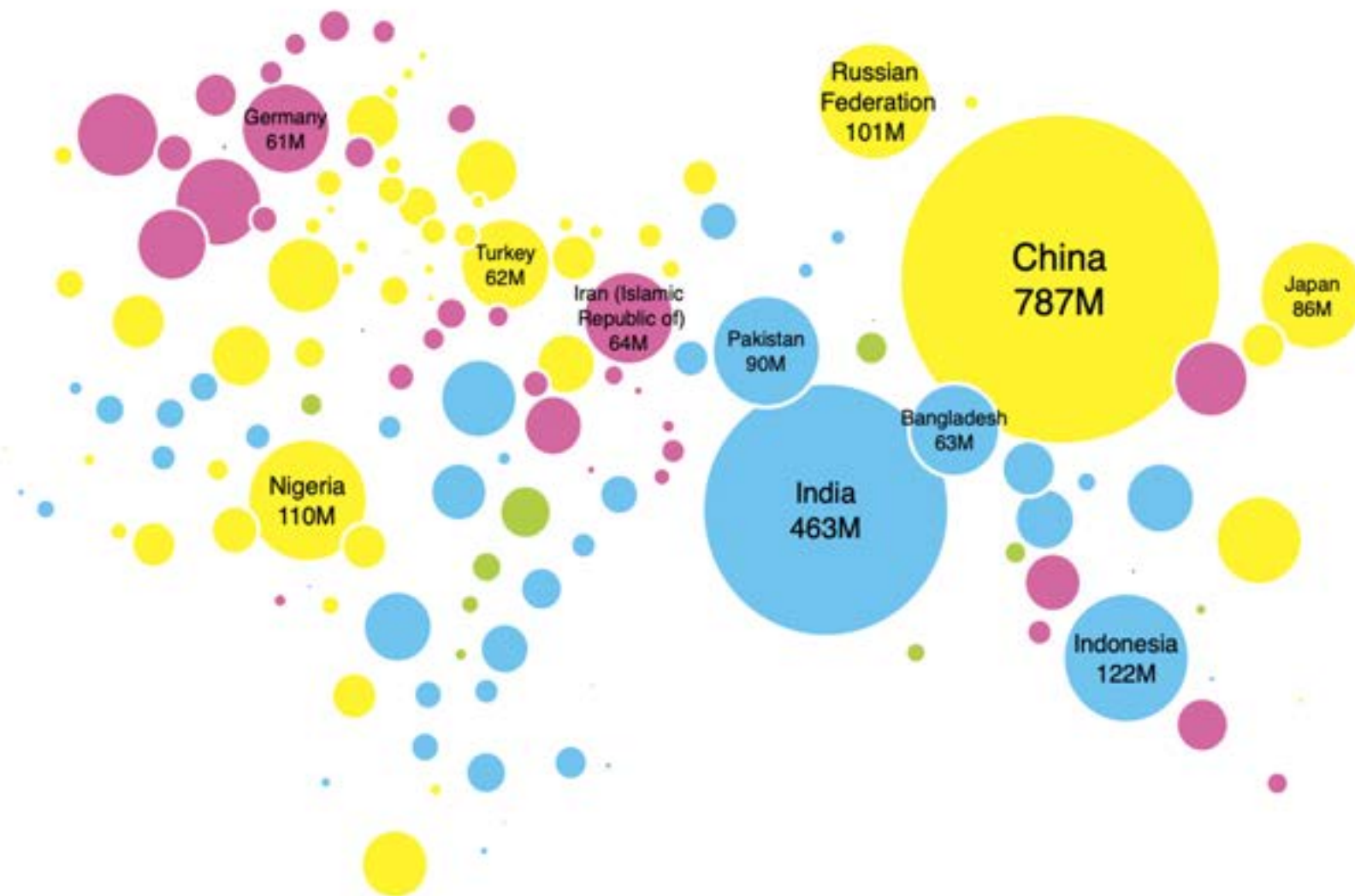
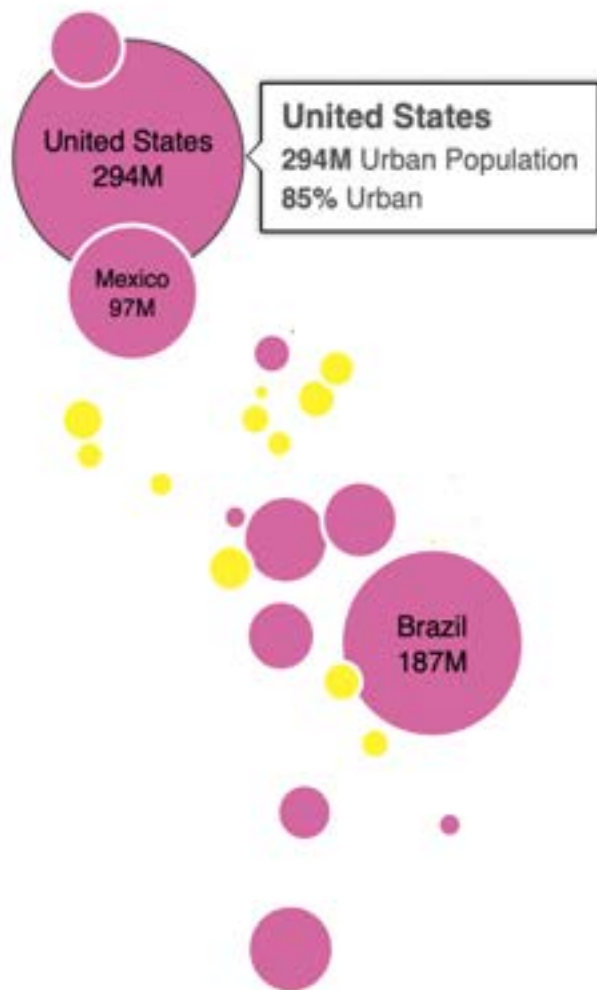
AN URBAN WORLD

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%

2020



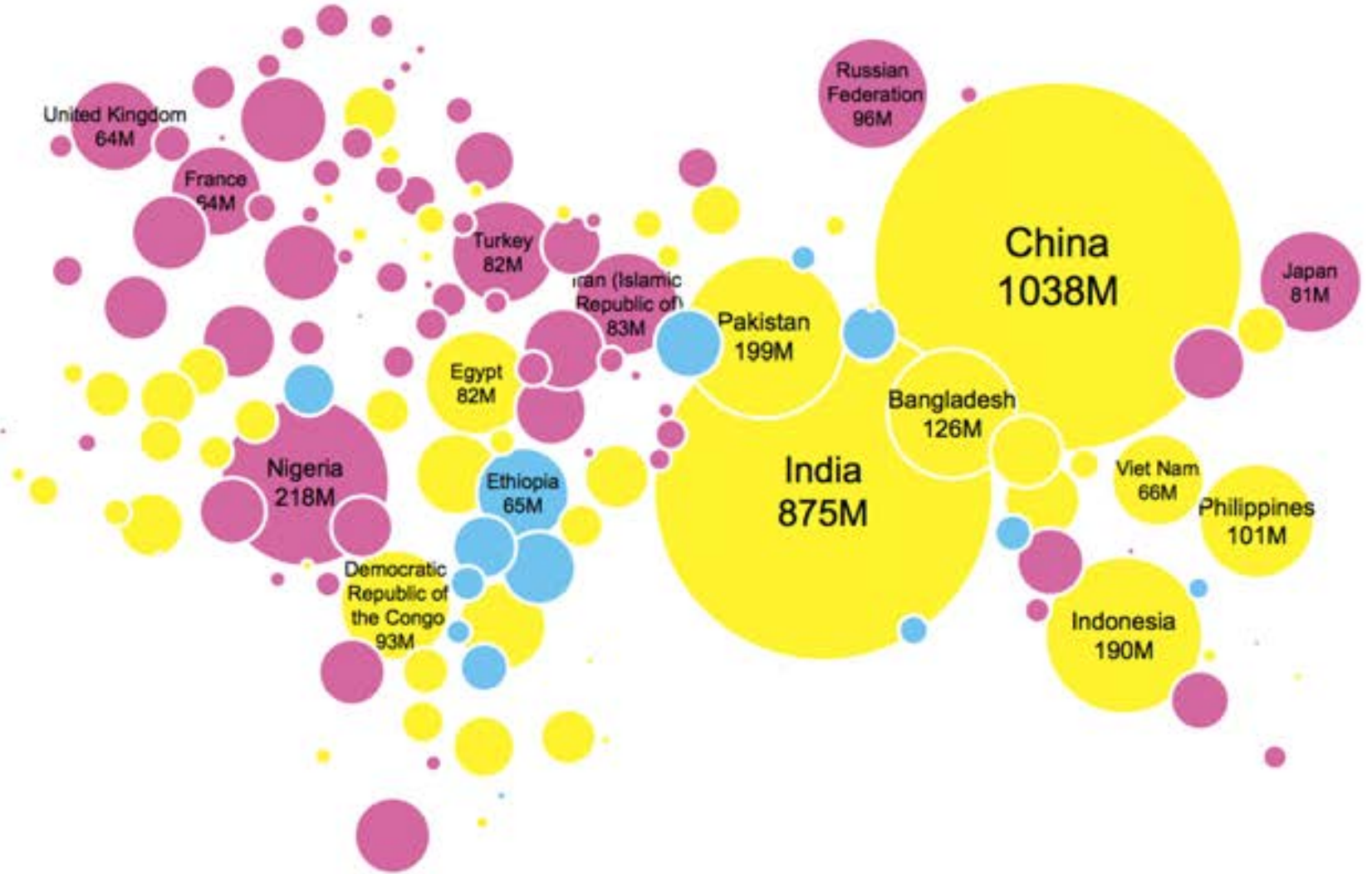
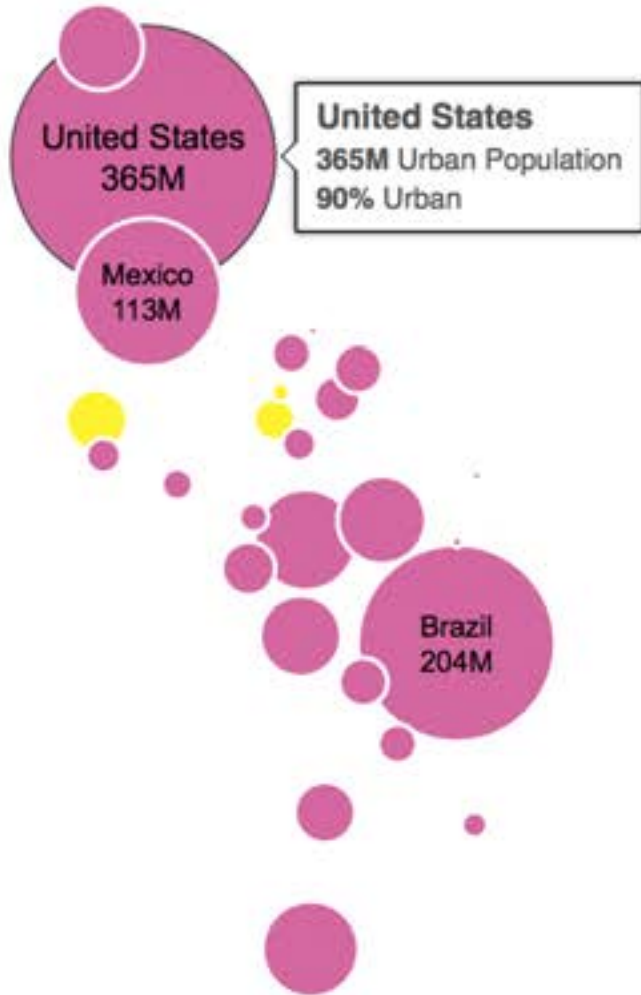
AN URBAN WORLD

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%

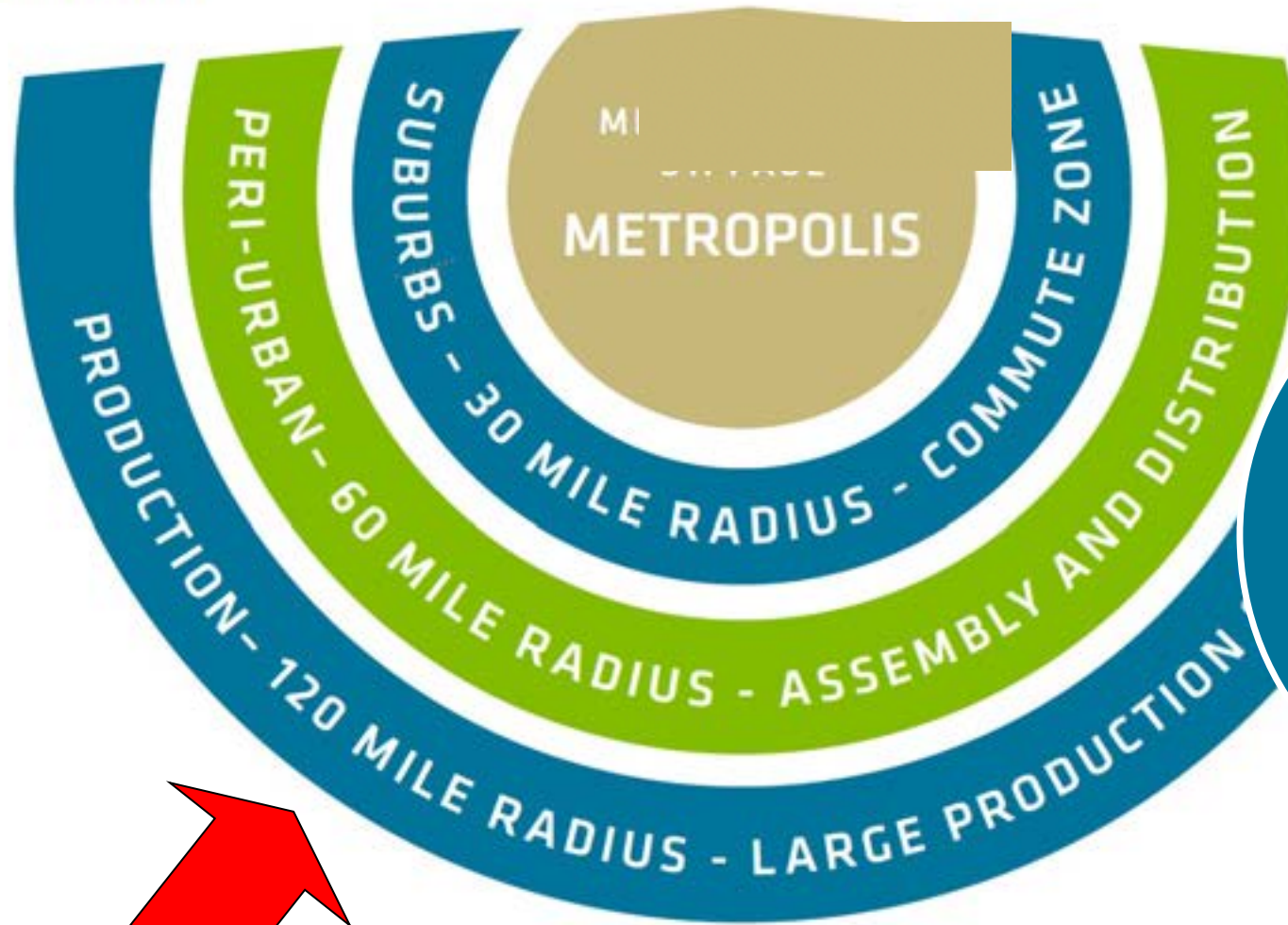
2050



Arc of Innovation



Future-Splitting
Questions™



Driving change
and innovation in
lifestyles

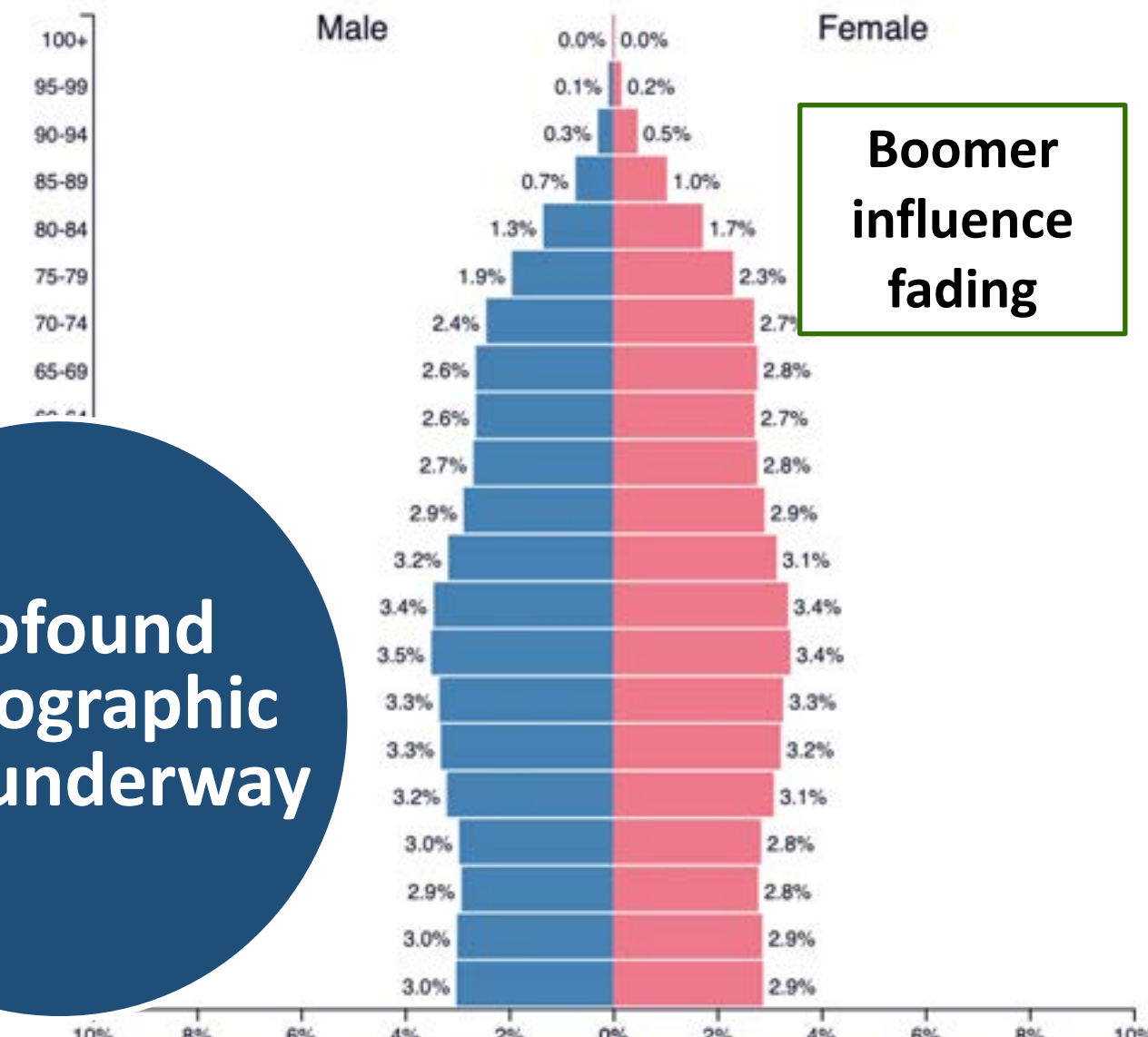
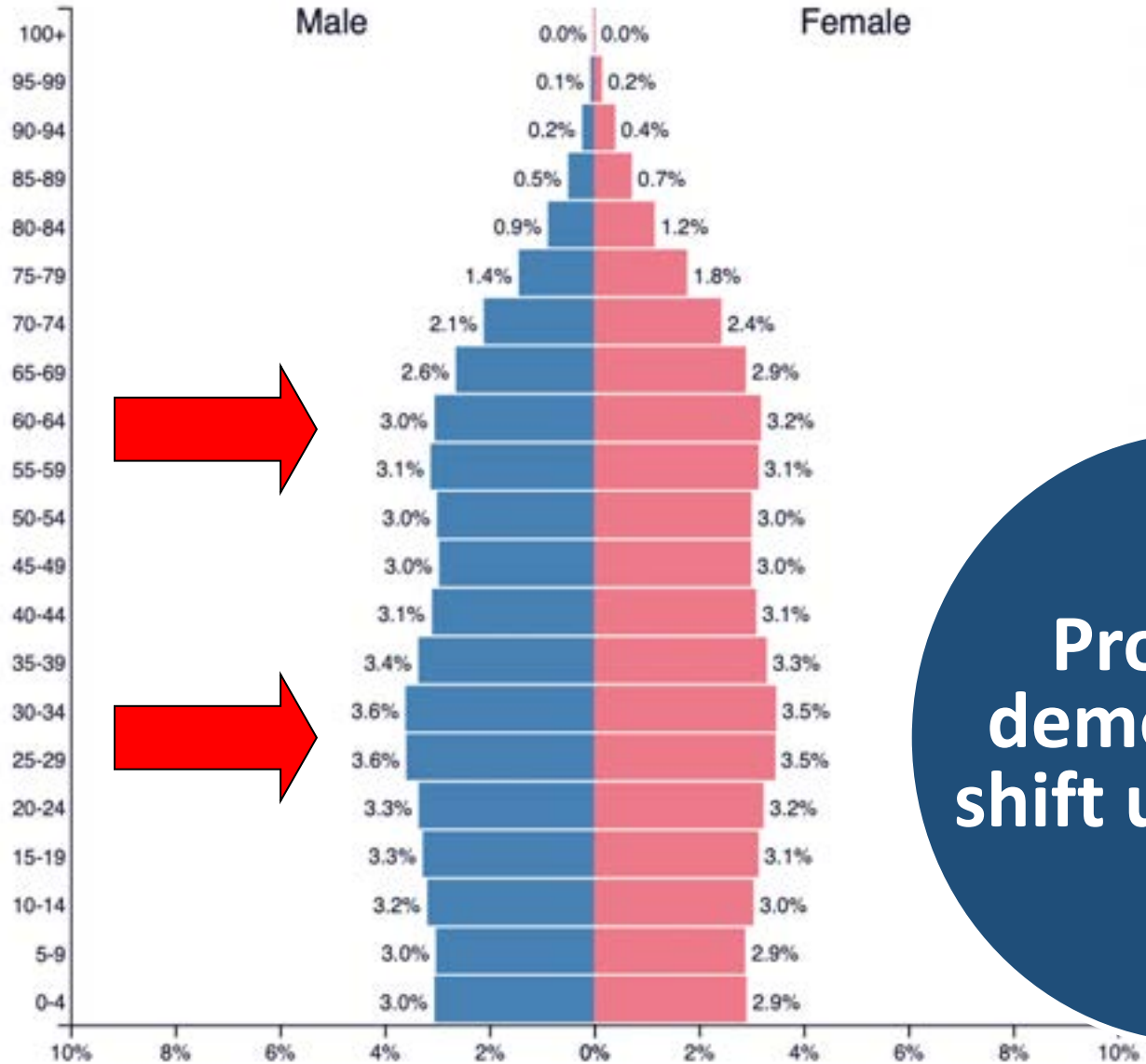
**What does this mean for the
future of the Smithville School District?**

United States of America ▼ 2022

Population: 334,805,268

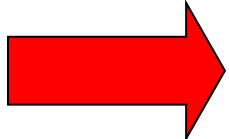
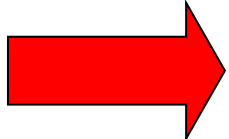
United States of America ▼ 2032

Population: 353,335,452



**Boomer
influence
fading**

**Profound
demographic
shift underway**

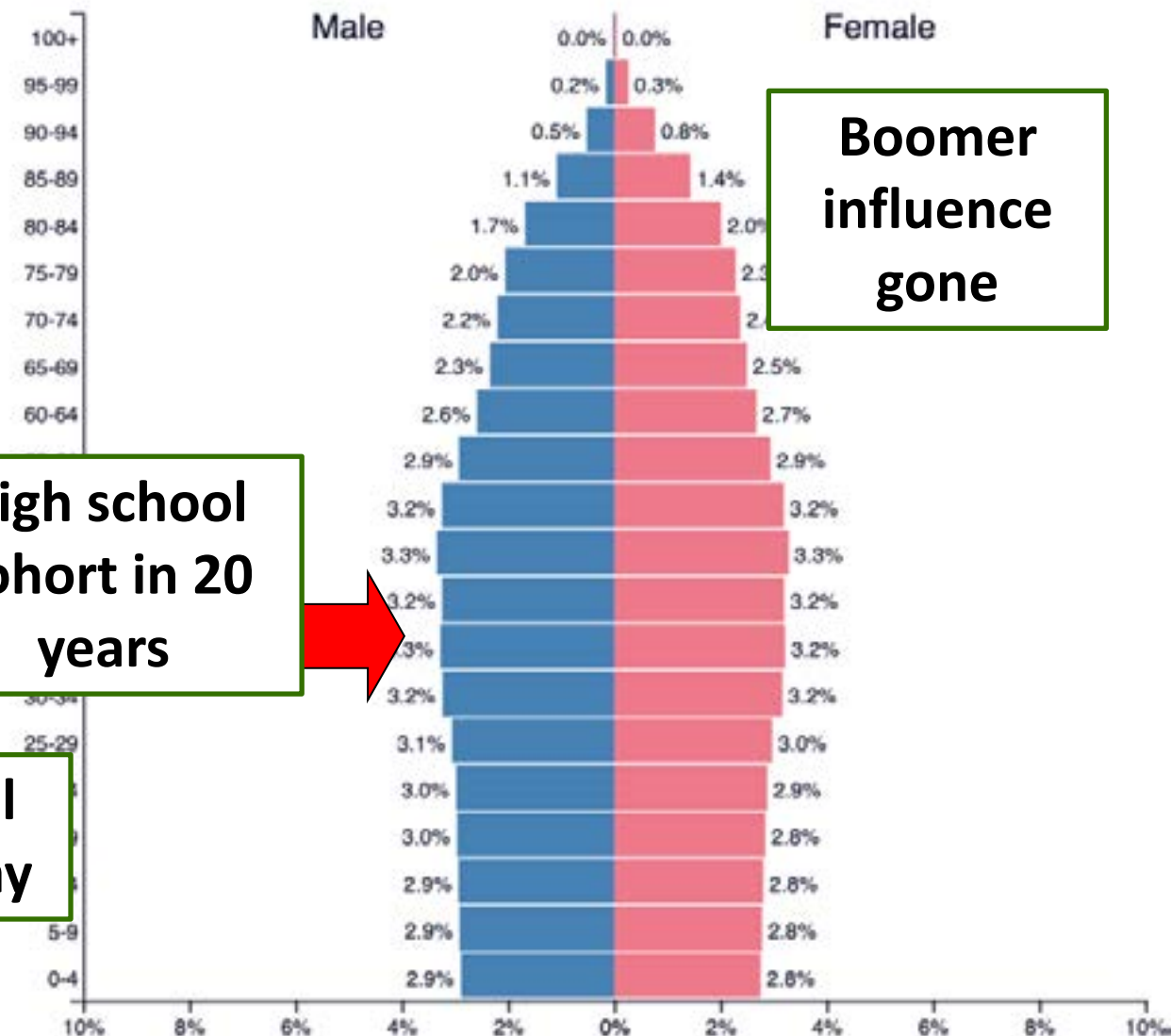
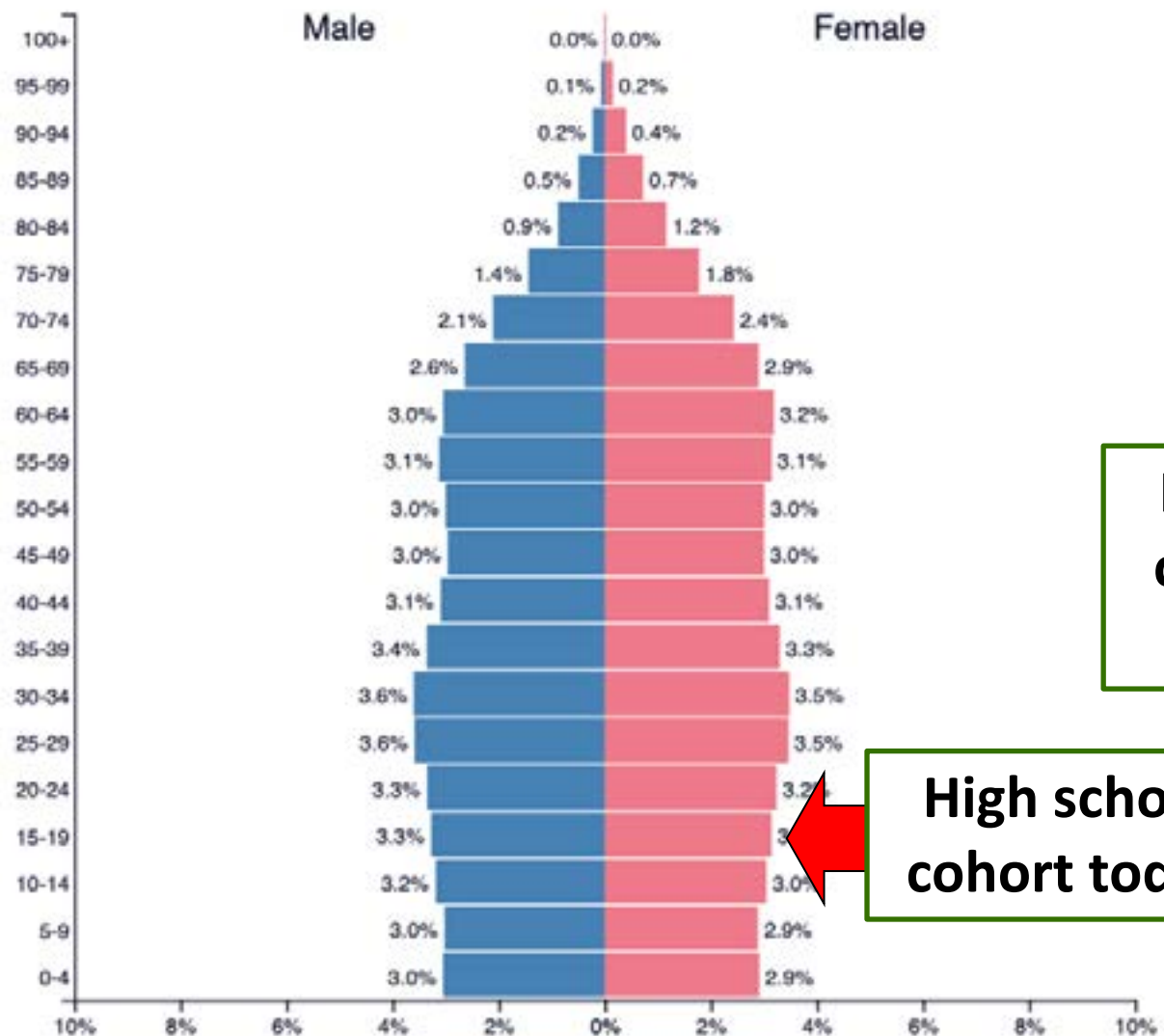


United States of America ▼ 2022

Population: 334,805,268

United States of America ▼ 2042

Population: 369,396,554



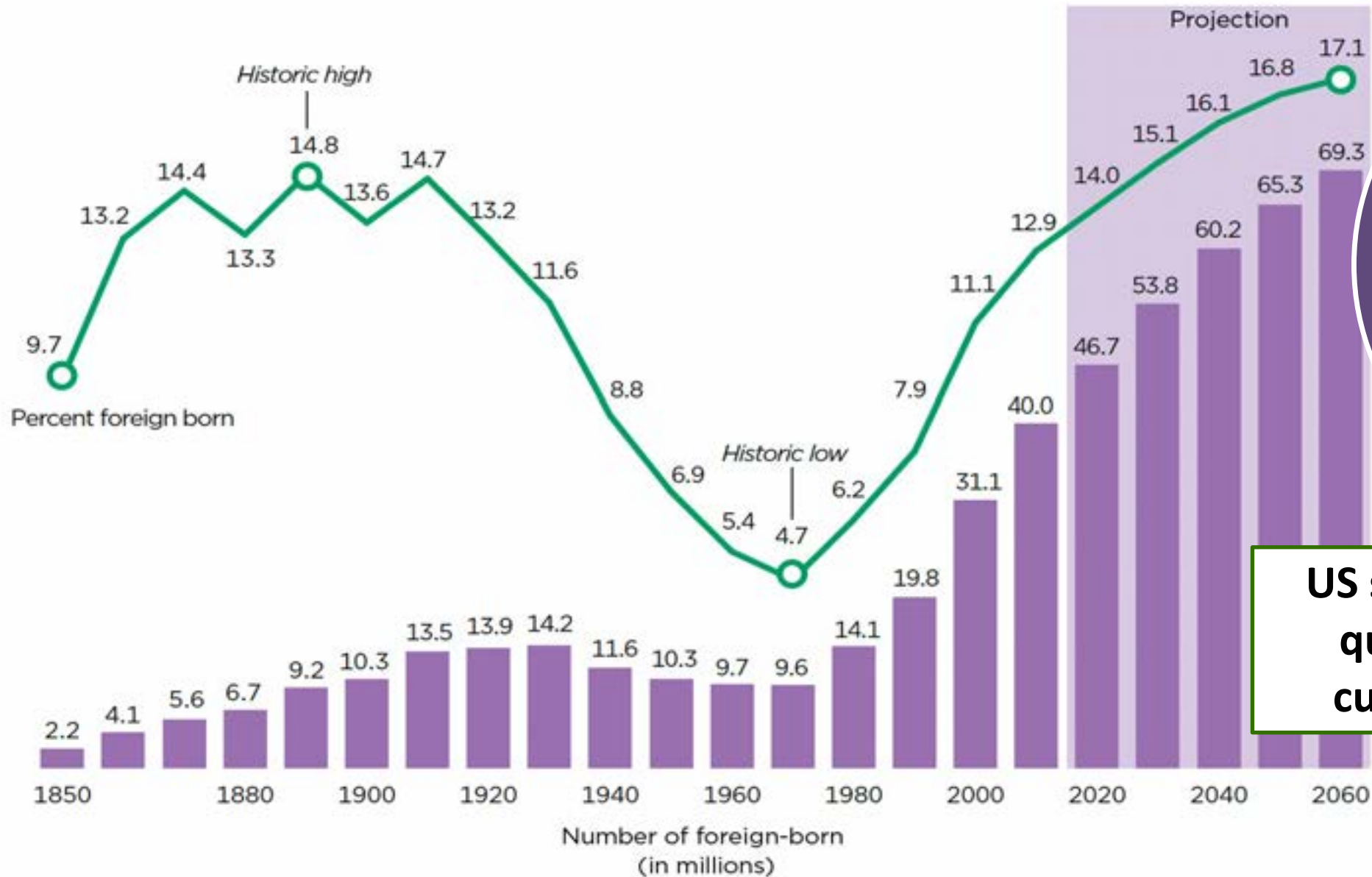
High school cohort in 20 years

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**



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.



Shifting societal values

Predictions and observations

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



Demographic + Population + Mass Urbanization

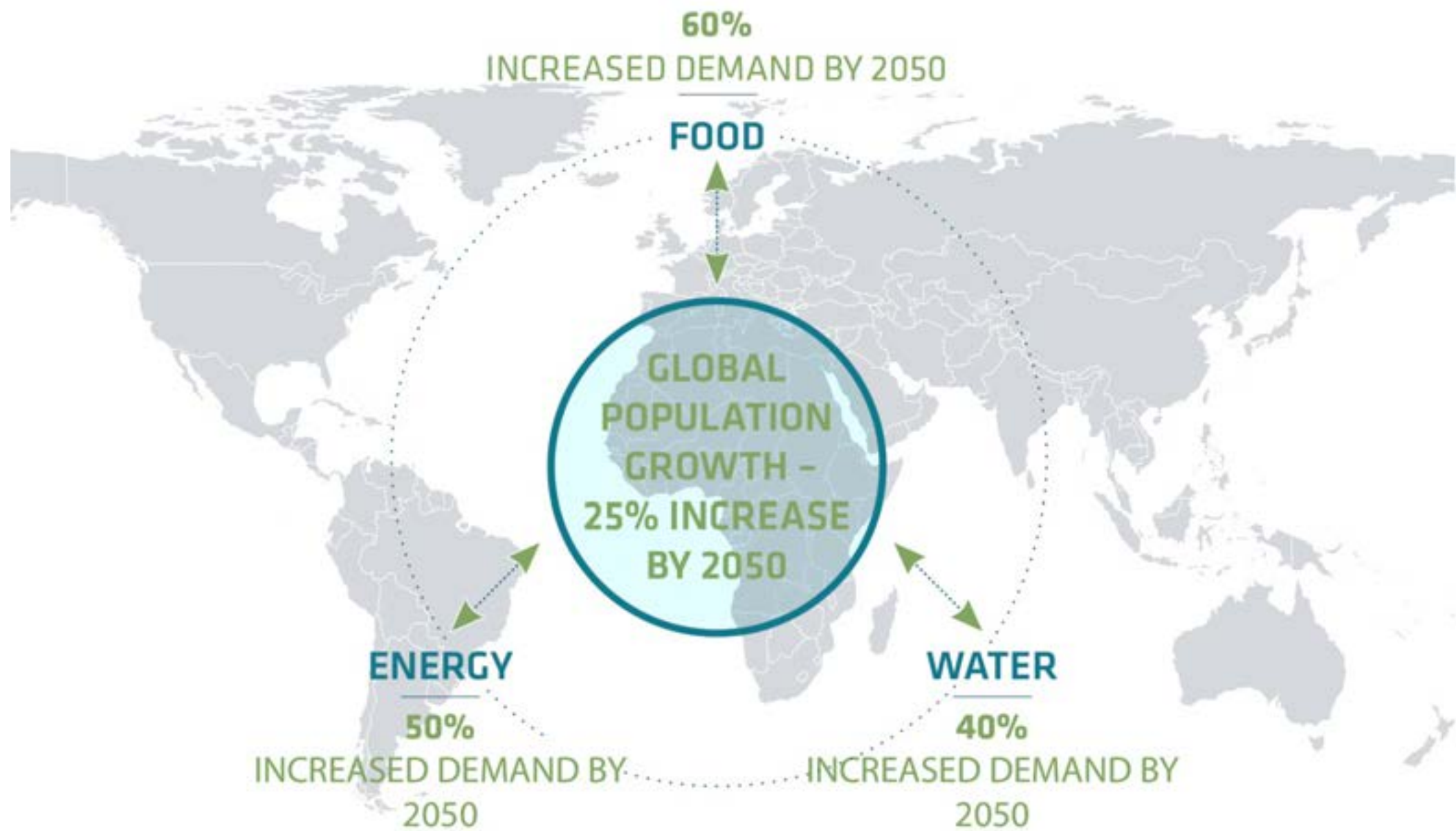


What does this mean for the Smithville School District and the future of learning?



Energy + Water + Food + Climate Change

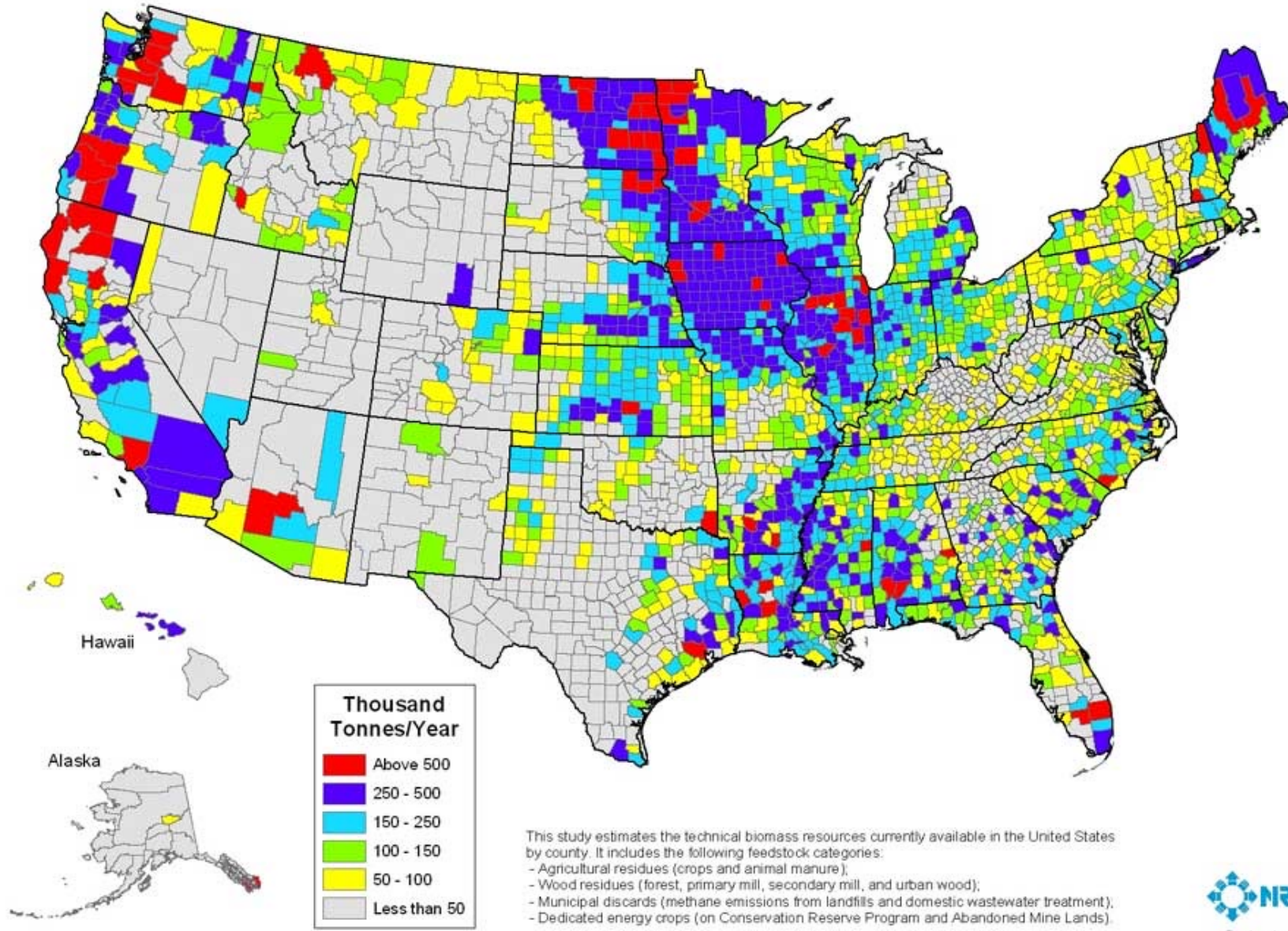




Renewable Energy

Potential for
unlimited
cheap energy

Biomass Resources Available in the United States



Unique
biomass
capability

Get new map



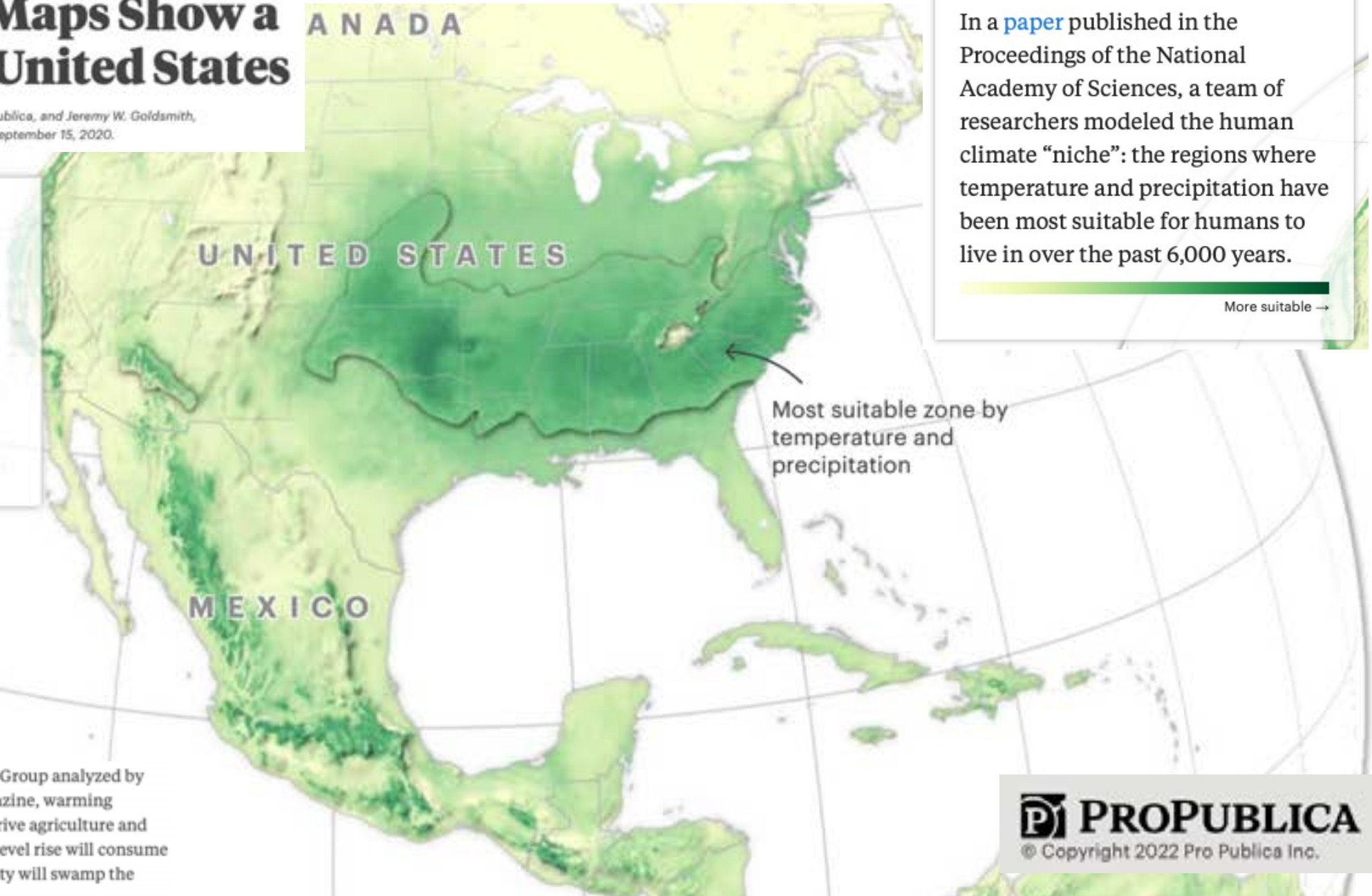
September 2005

New Climate Maps Show a Transformed United States

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

United States, that niche
encompasses the heart of the
continent from the Atlantic
coast through northern Texas
and the California

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.



New Climate Maps Show a Transformed United States

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

could shift drastically northward.

Under even a moderate carbon emissions scenario (known as RCP 4.5), by 2070 much of the Southeast becomes less suitable and the niche shifts 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.



The suitable zone will move northward by 2070

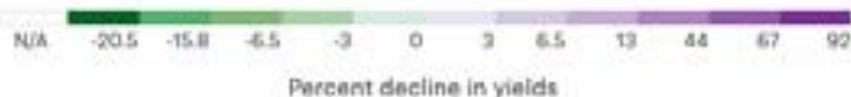
According to new data from the Rhodium Group analyzed by ProPublica and The New York Times Magazine, warming temperatures and changing rainfall will drive agriculture and temperate climates northward, while sea level rise will consume coastlines and dangerous levels of humidity will swamp the Mississippi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

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

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

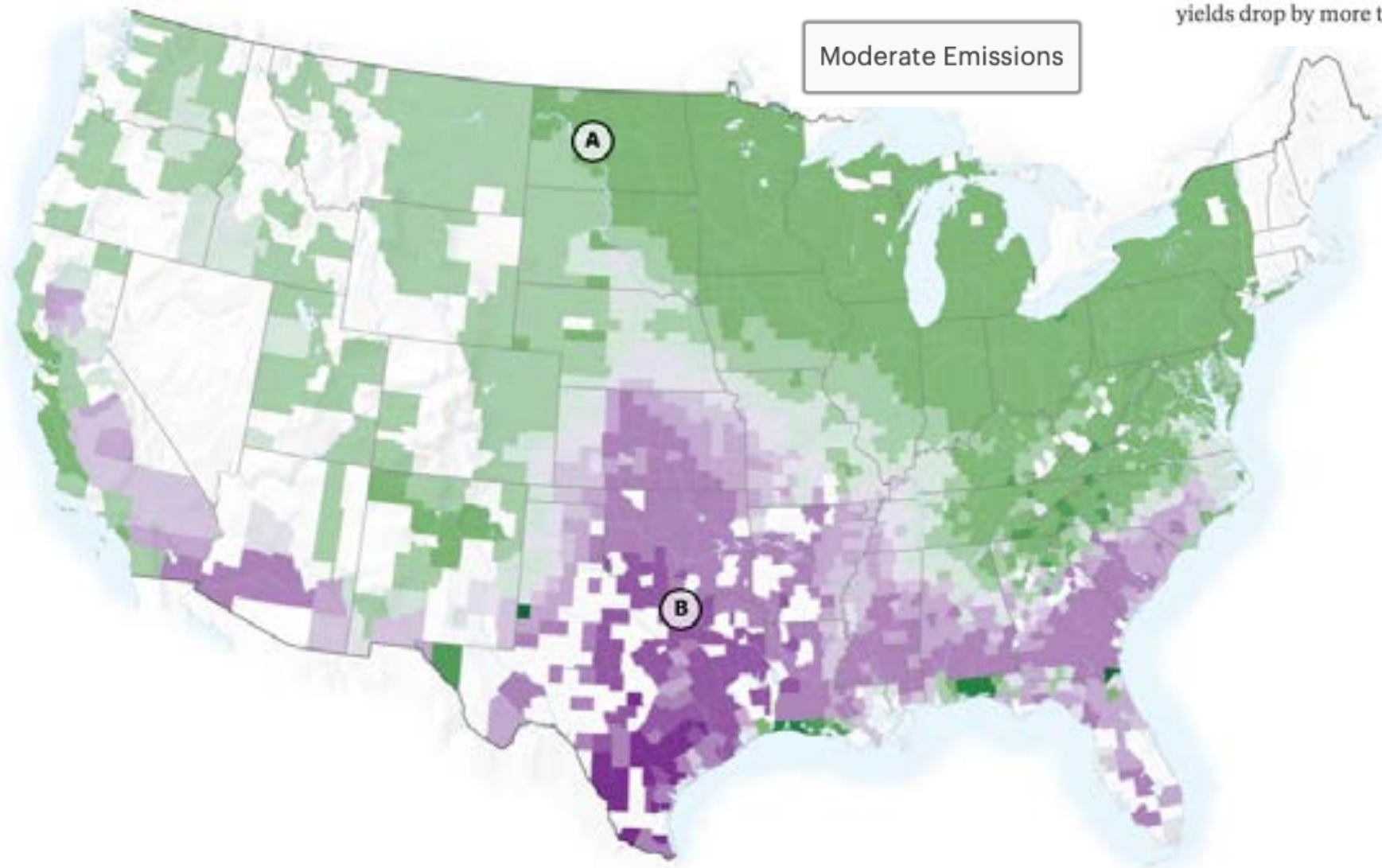


Farm Crop Yields: 2040-2060



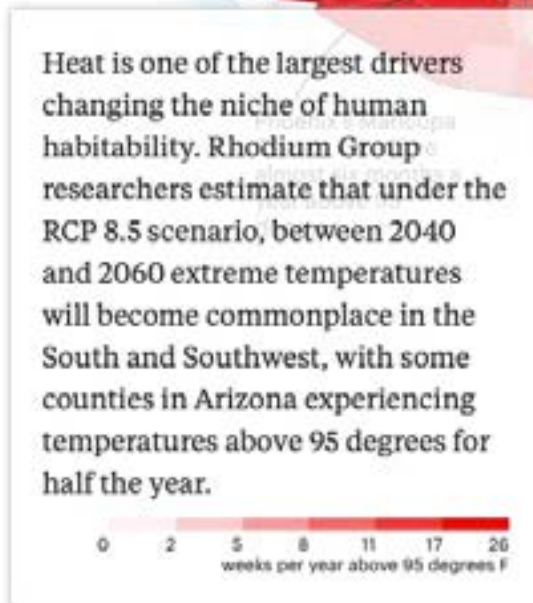
Corn and soy production is more sensitive to heat than drought, and it will decrease for every degree of warming. By midcentury, North Dakota (A), which already harvests millions of acres of both crops, will warm enough to allow for more growing days and higher yields. But parts of Texas and Oklahoma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

Moderate Emissions





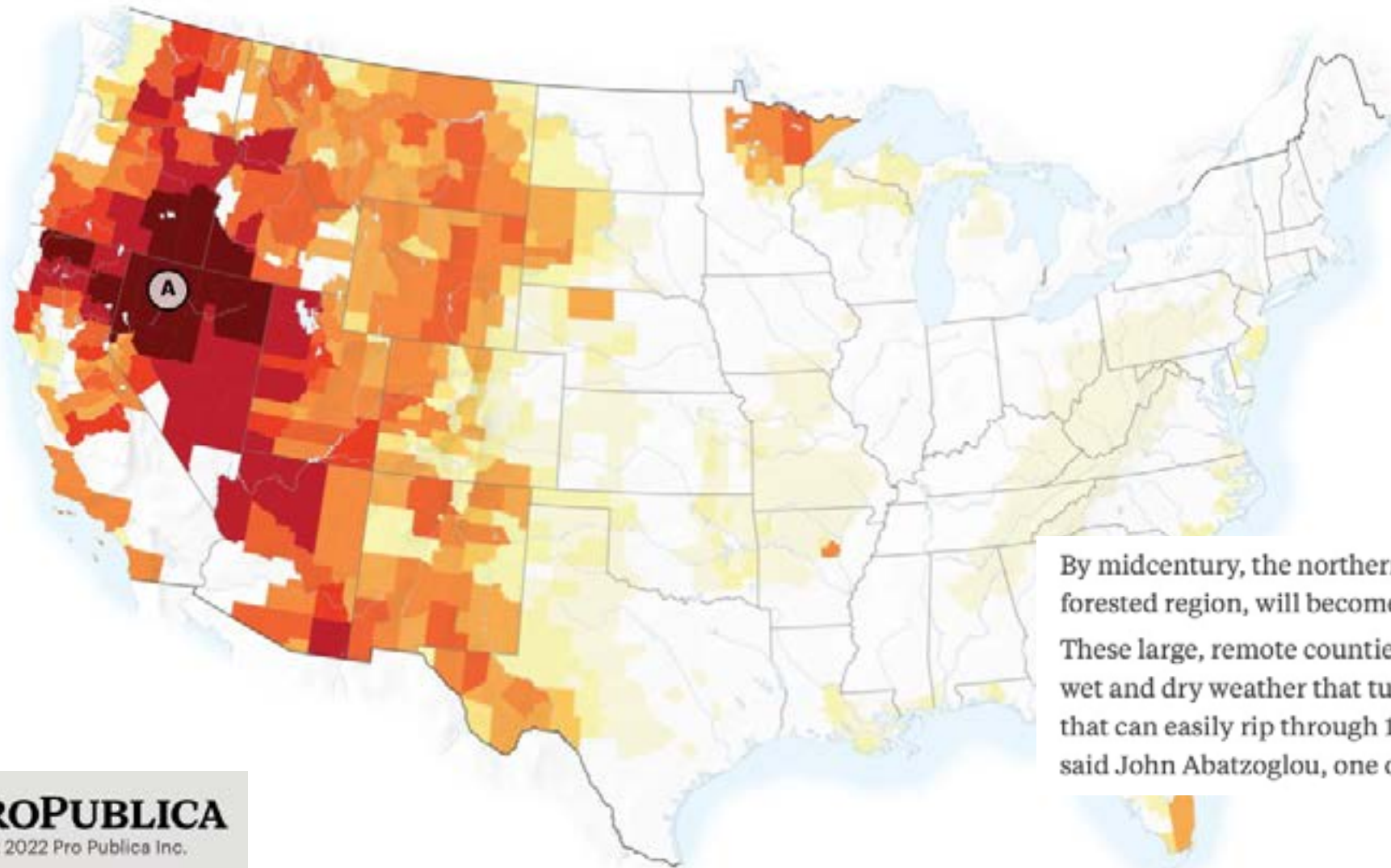
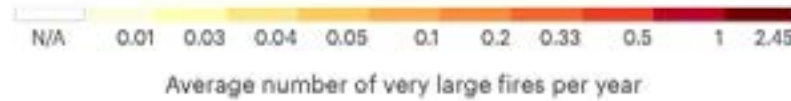
Extreme Heat and Humidity: 2040-2060



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



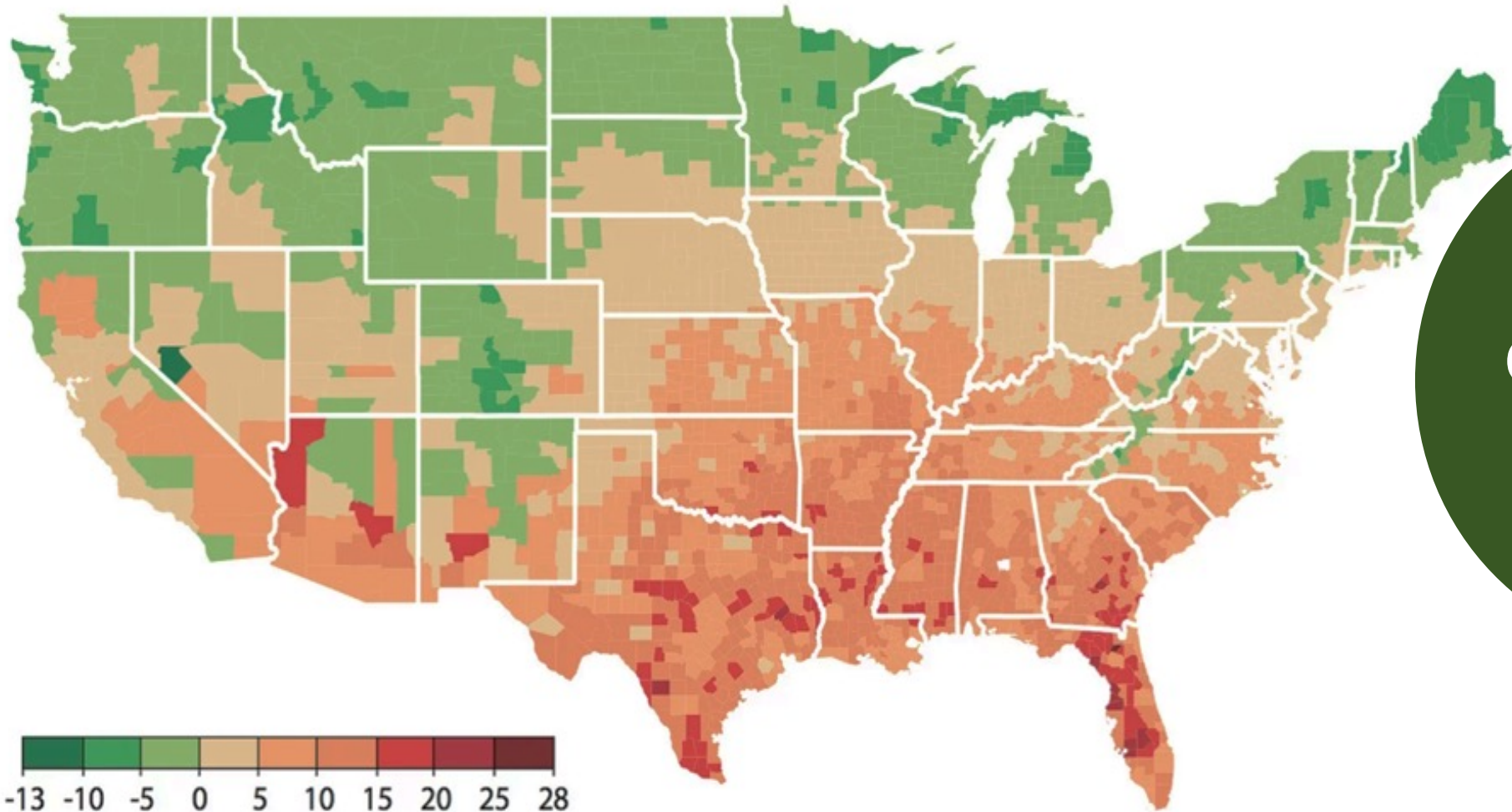
Sea Level Rise: 2040-2060



Percentage of property below high tide



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.



Long term
GDP impact
positive in
north

-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

Source: Christopher Joyce, MPR News, June 29, 2017

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

Technology and the speed of change

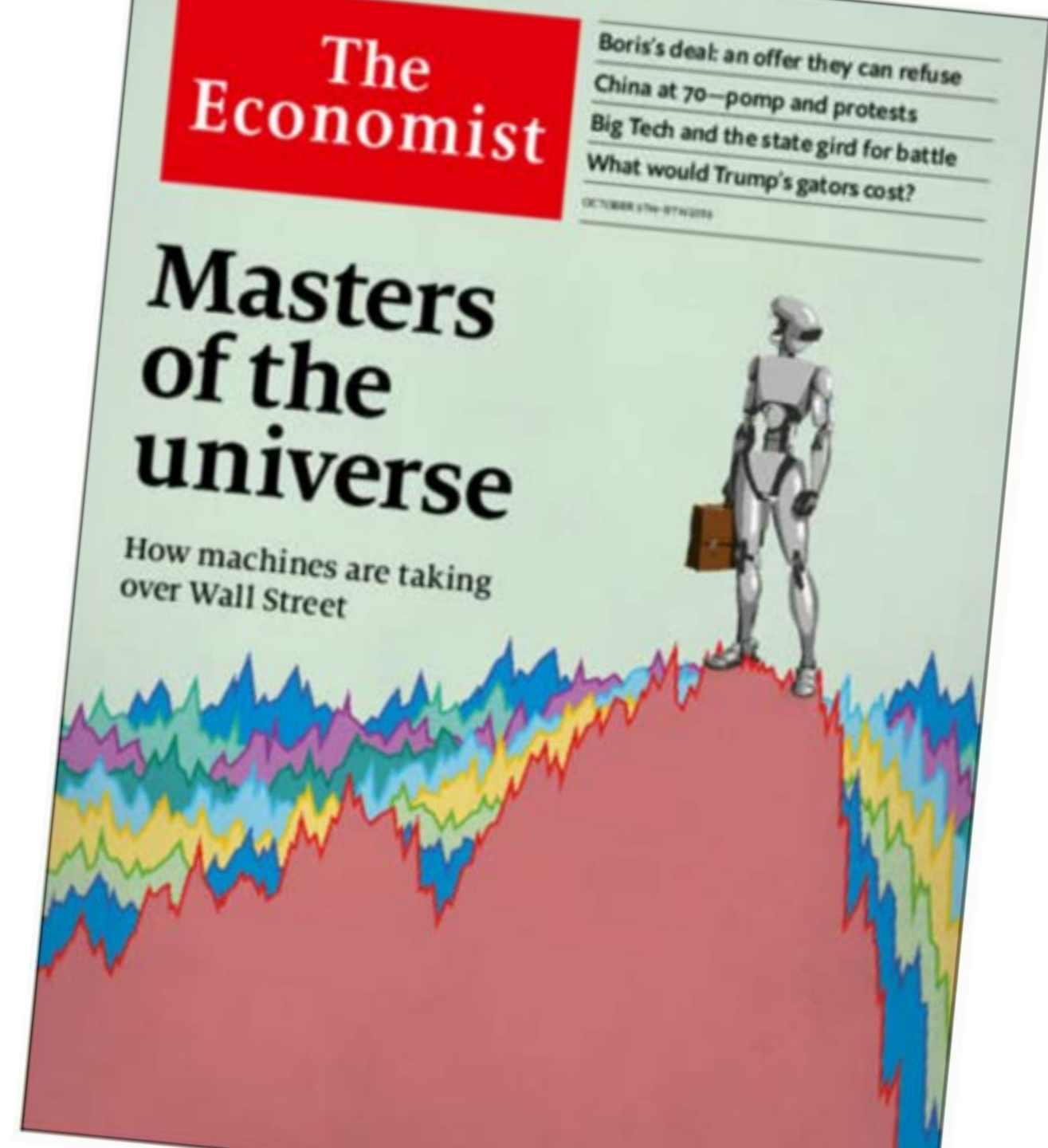
SMITHVILLE



School District

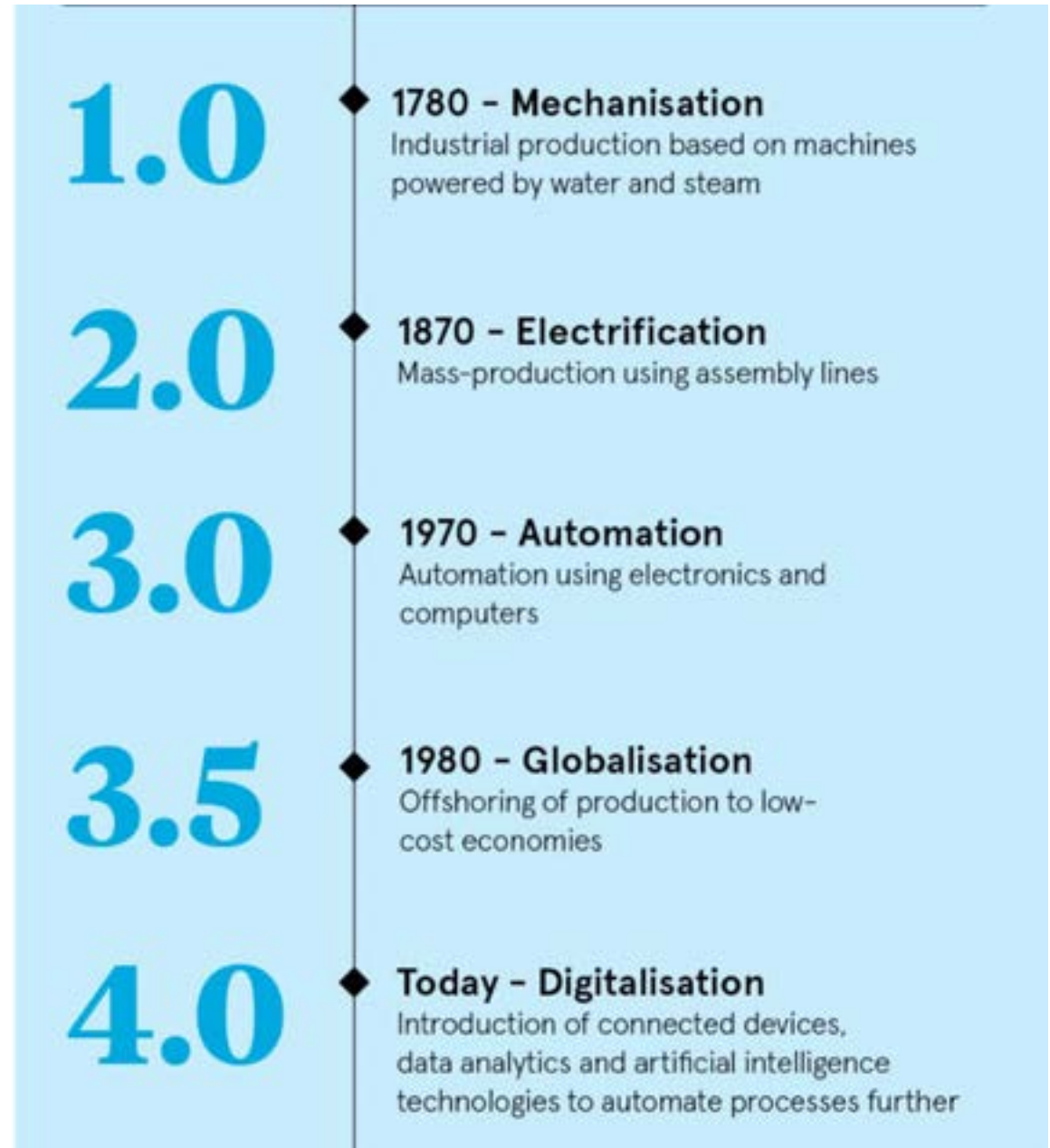
future → iQ

Create Future Intelligence™

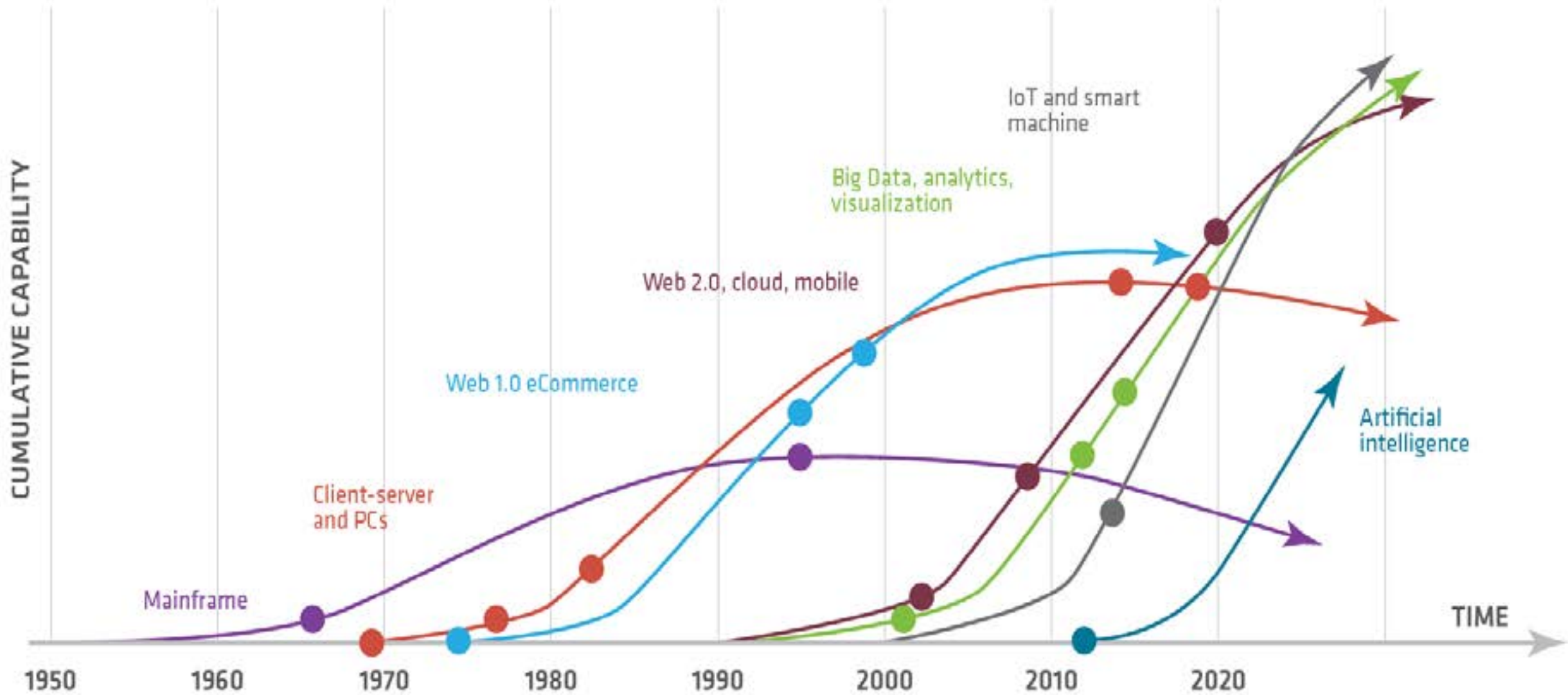


What makes this industrial revolution different?

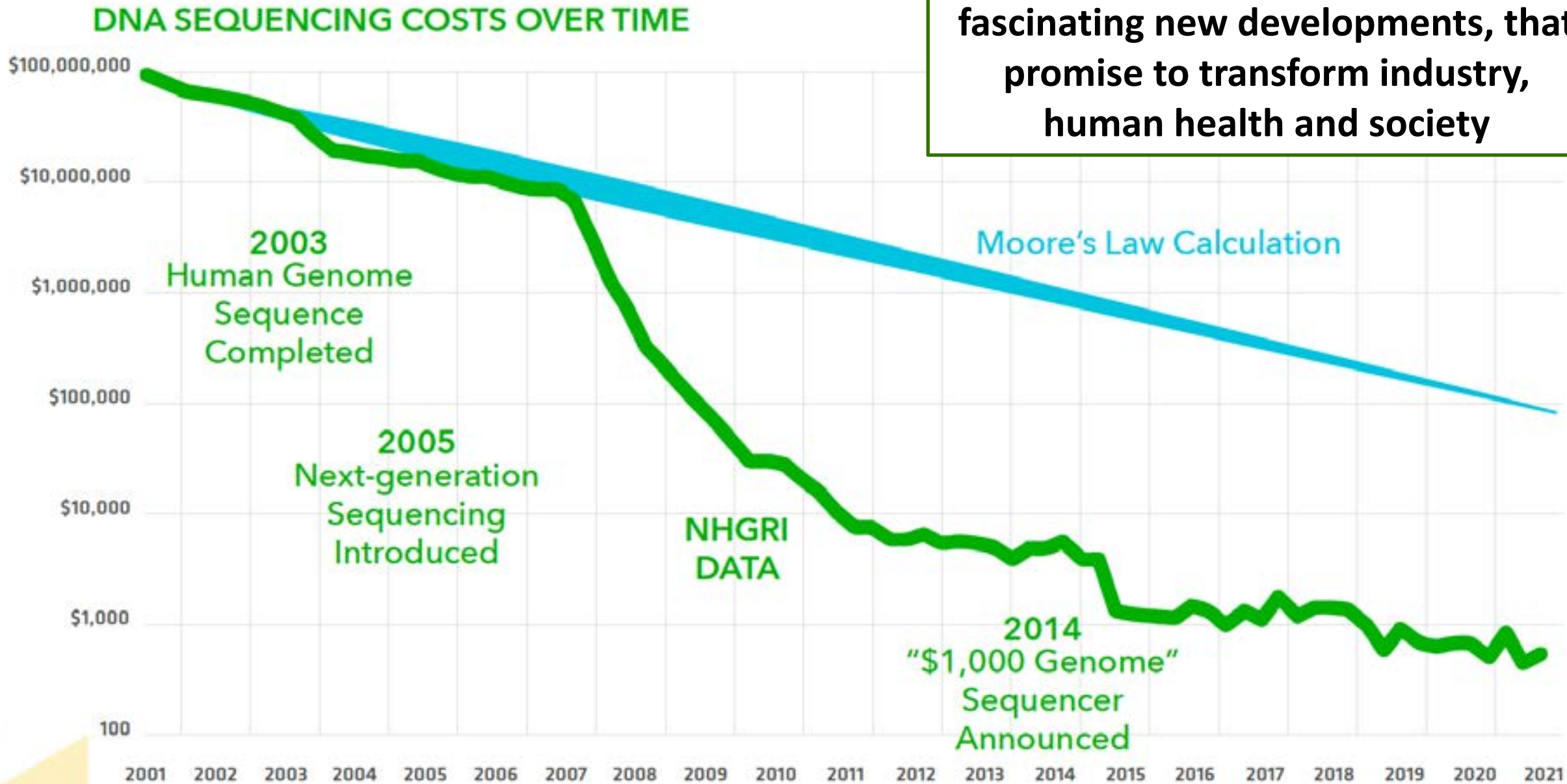
- Machine learning / Artificial Intelligence
- Converging technologies
- Exponential impacts



THE INCREASING CAPABILITY OF DIGITAL TECHNOLOGIES



Technology is driving down cost of fascinating new developments, that promise to transform industry, human health and society

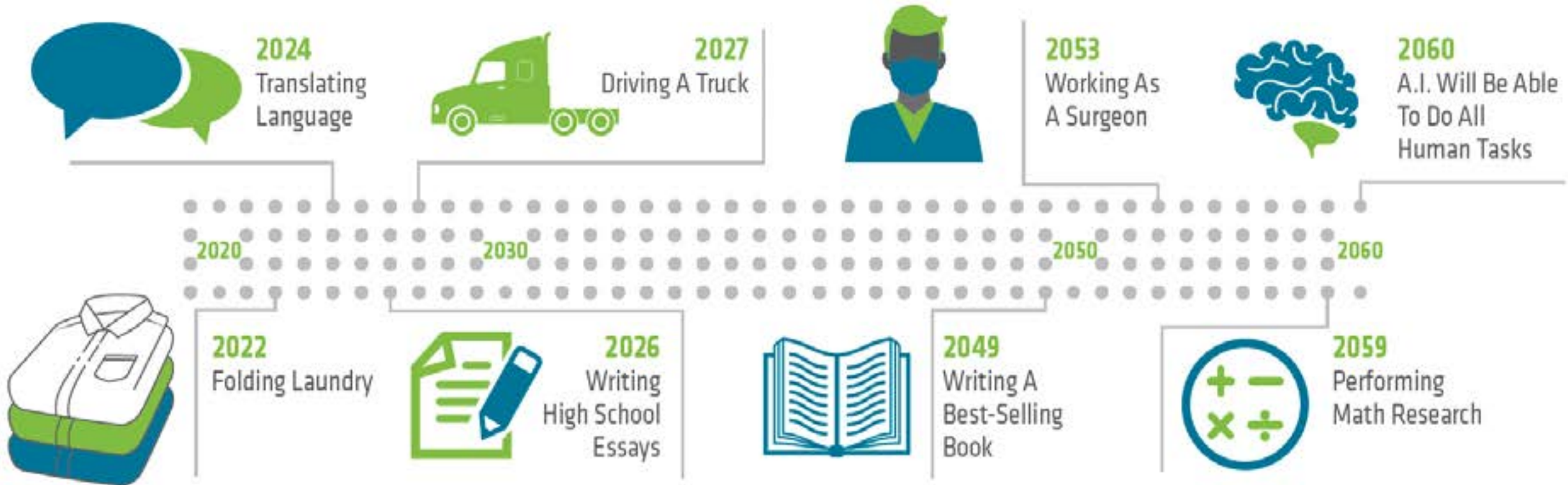


Source: <https://www.genome.gov/about-genomics/fact-sheets/DNA-Sequencing-Costs-Data>

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) ¹²

Reproduced from Next Industrial Revolution, Future iQ, 2018

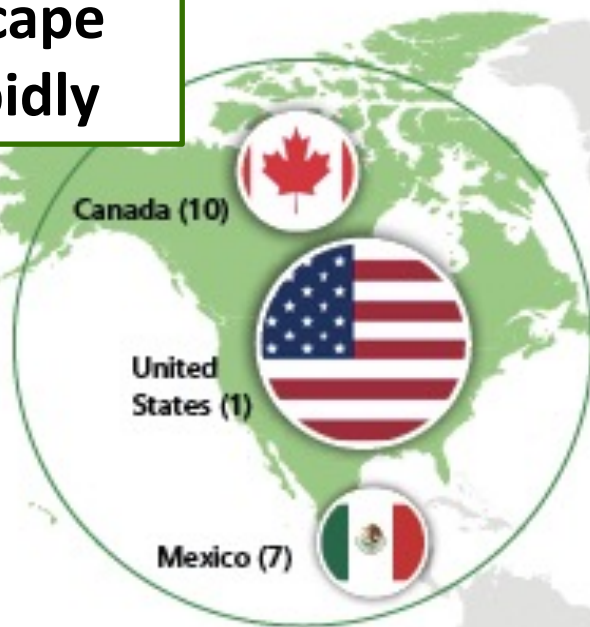
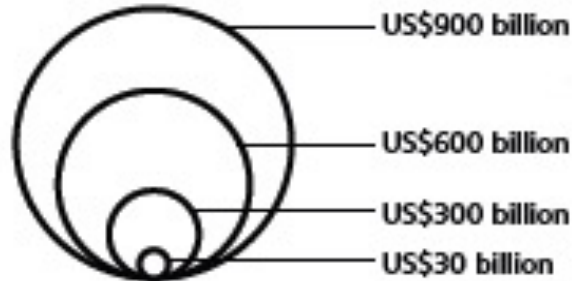


Source: New Yorker Oct 23, 2017, and Max Planck Research 2009

Global technology and innovation landscape might change rapidly



High skilled and technology intensive manufacturing exports (US billion dollars)



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 and Technology

What does this mean for the
Smithville School District and
the future of learning?

SMITHVILLE



School District

future*→*iQ
Create Future Intelligence™





WELCOME TO THE
SMITHVILLE SCHOOL DISTRICT
STRATEGIC ACTION PLANNING
PROJECT



Survey Results



**Think-Tank
Day 1**



SMITHVILLE



School District

Preliminary Survey Results (n = 300)

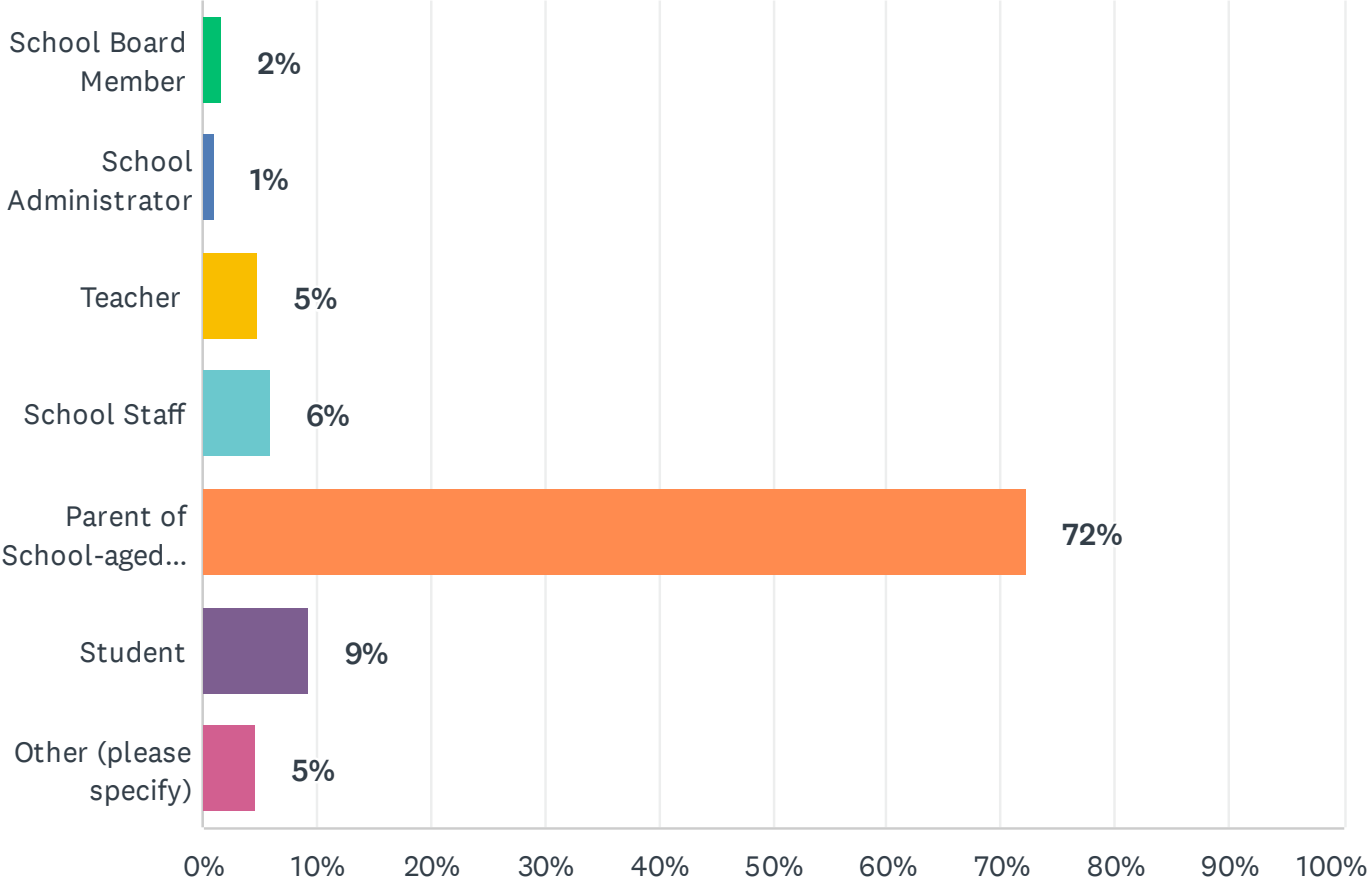
future→iQ
Create Future Intelligence™



Smithville School District Community Survey

Q4 What is your affiliation with the Smithville School District?

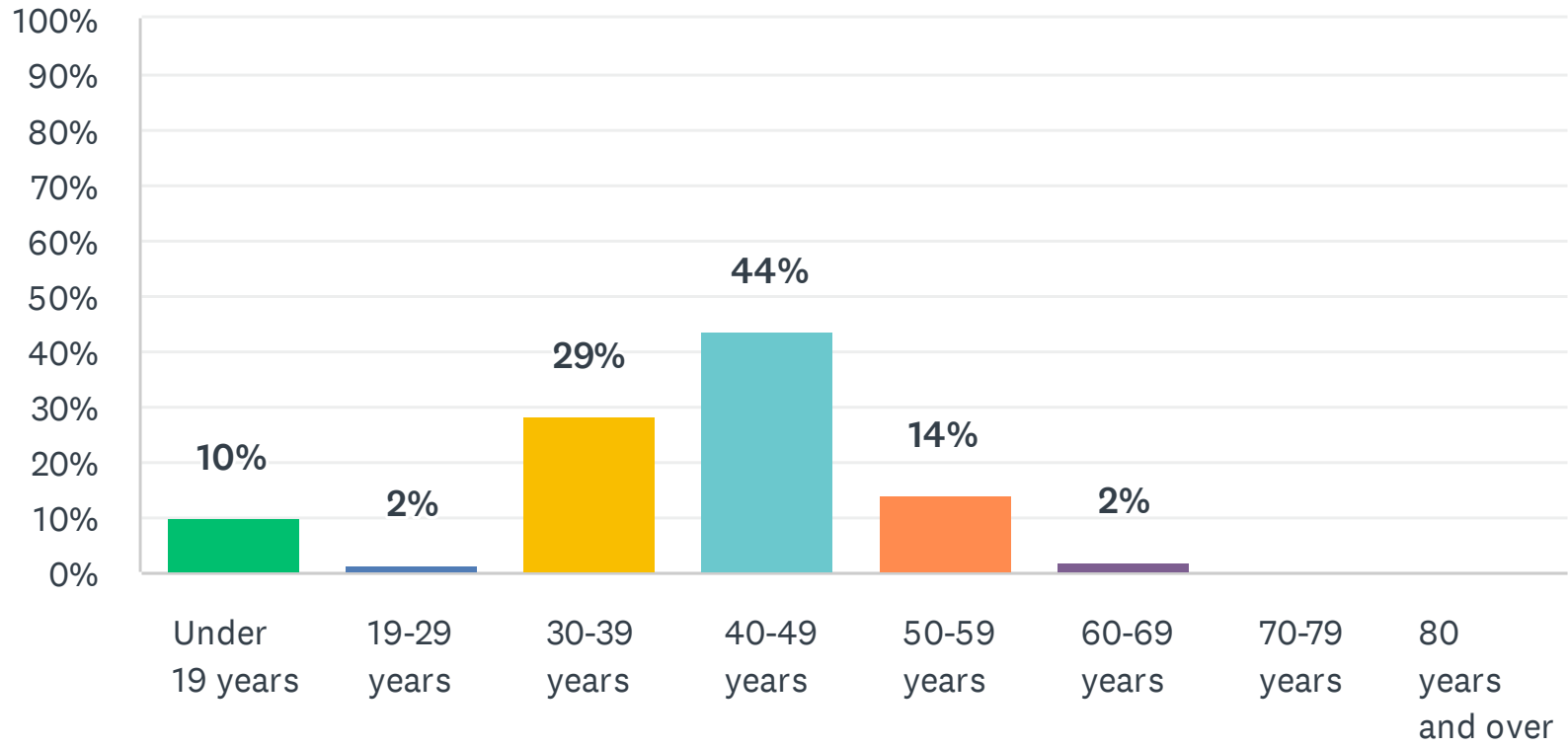
Answered: 300 Skipped: 0



Smithville School District Community Survey

Q5 What is your age grouping?

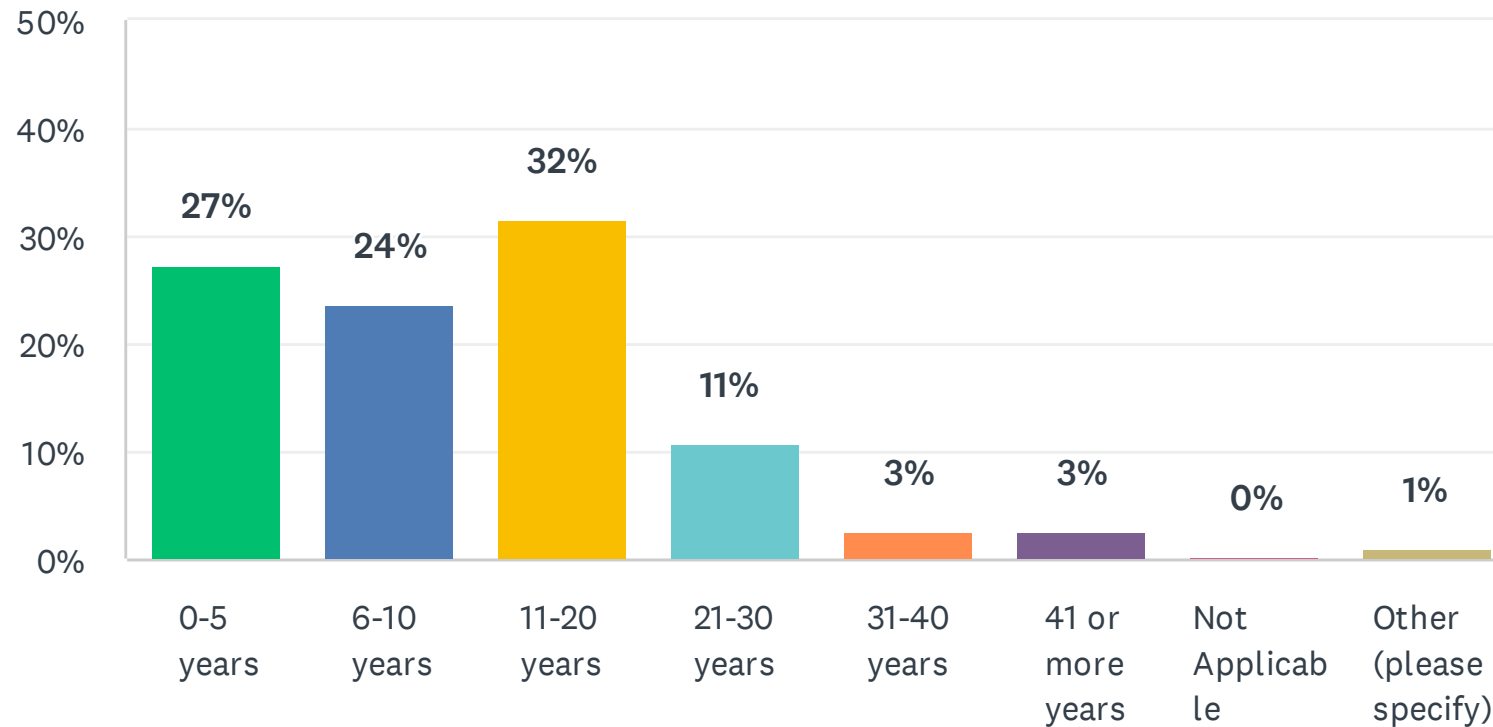
Answered: 300 Skipped: 0



Smithville School District Community Survey

Q7 How long have you lived or worked in Smithville?

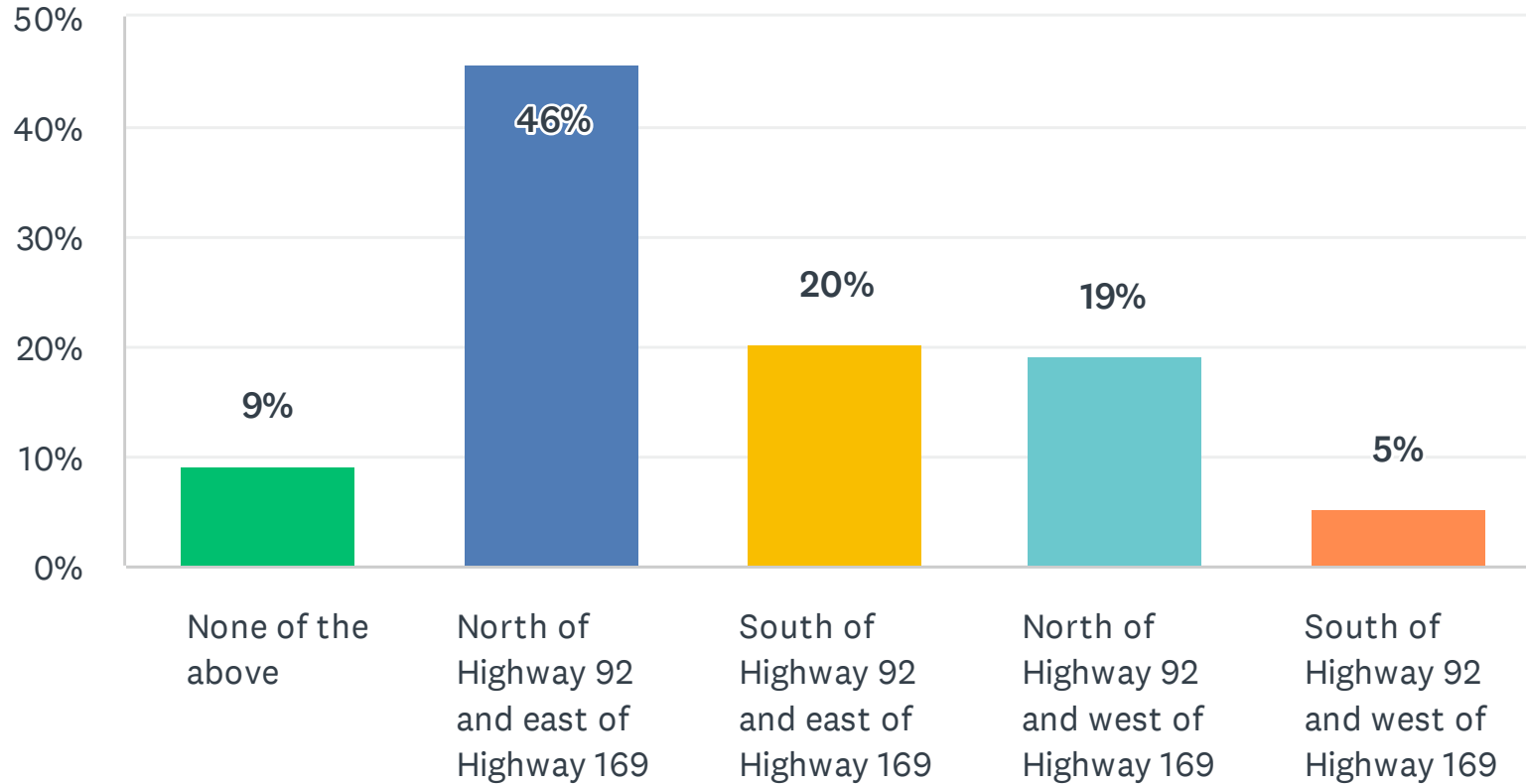
Answered: 300 Skipped: 0



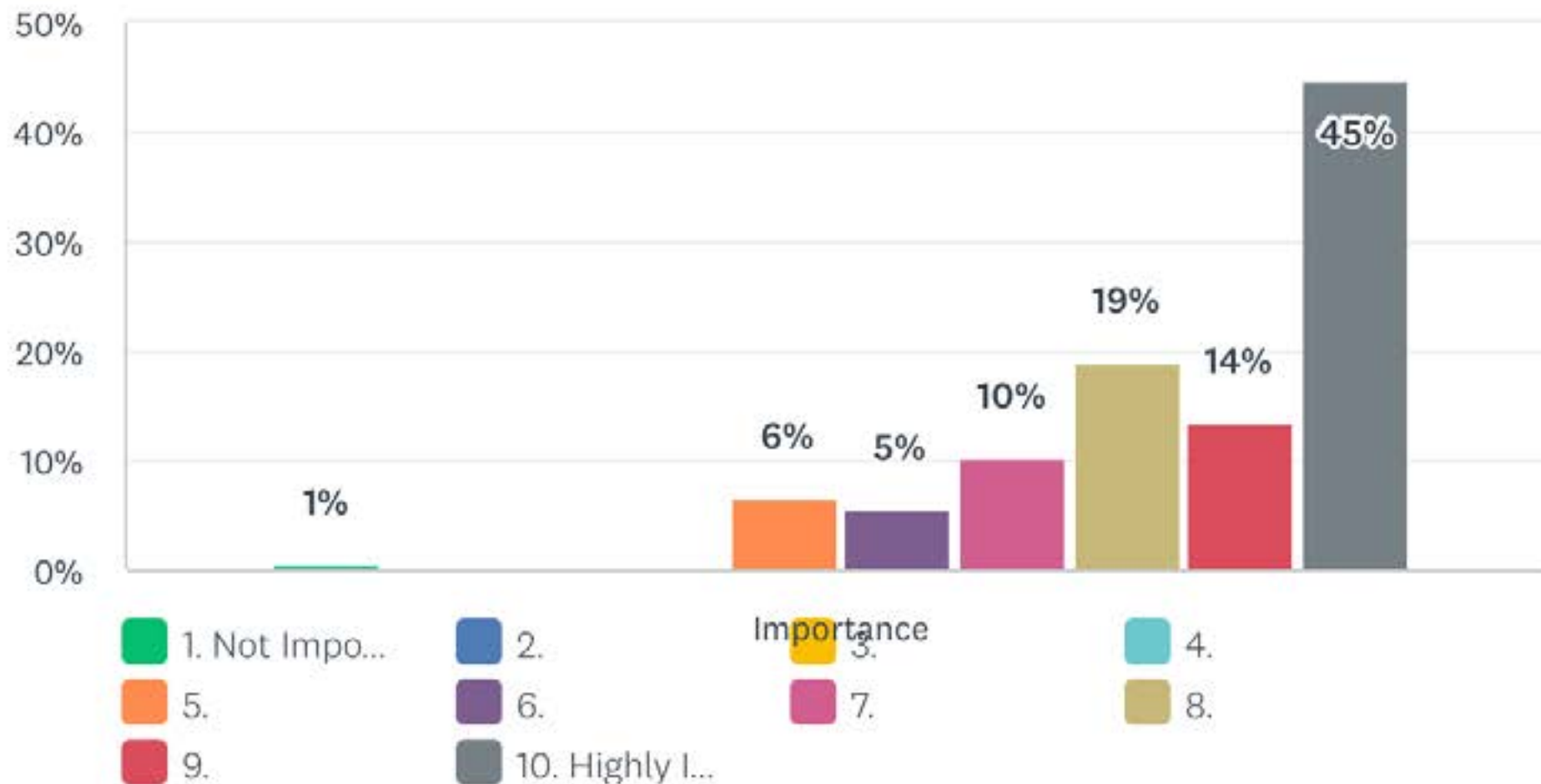
Smithville School District Community Survey

Q8 Which part of the school district do you live in?

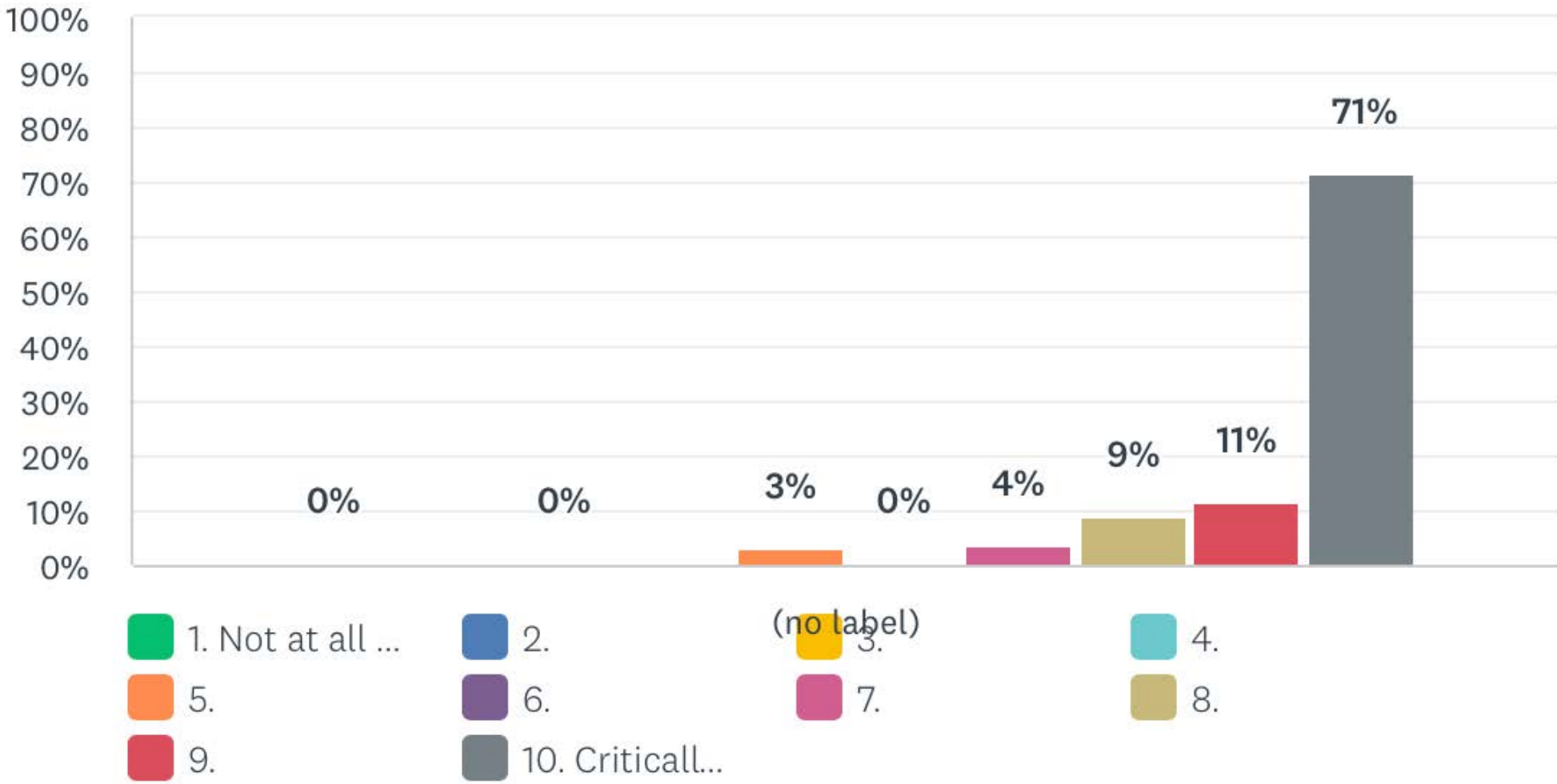
Answered: 300 Skipped: 0



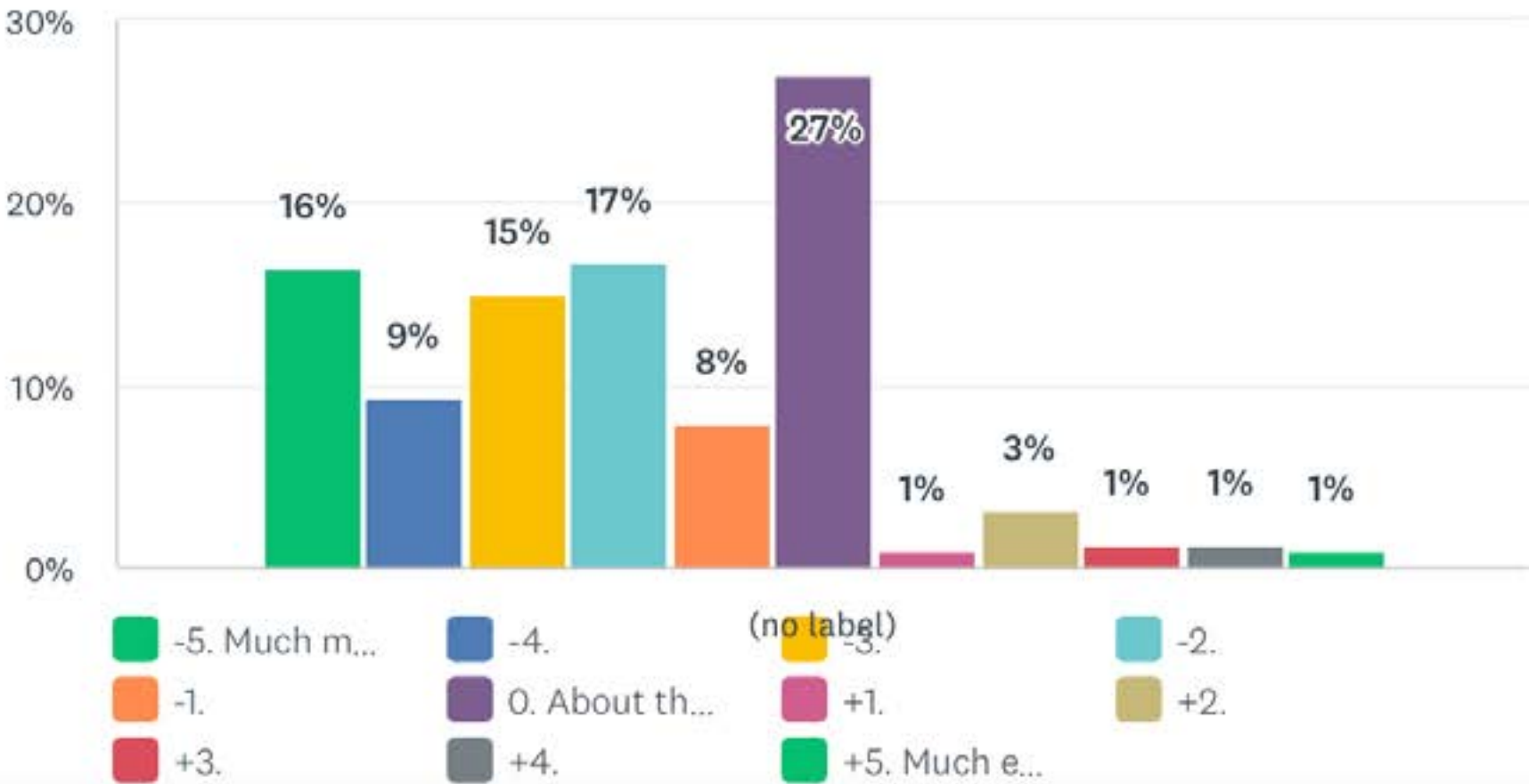
How important is it to have a SHARED VISION for the future of the Smithville School District?



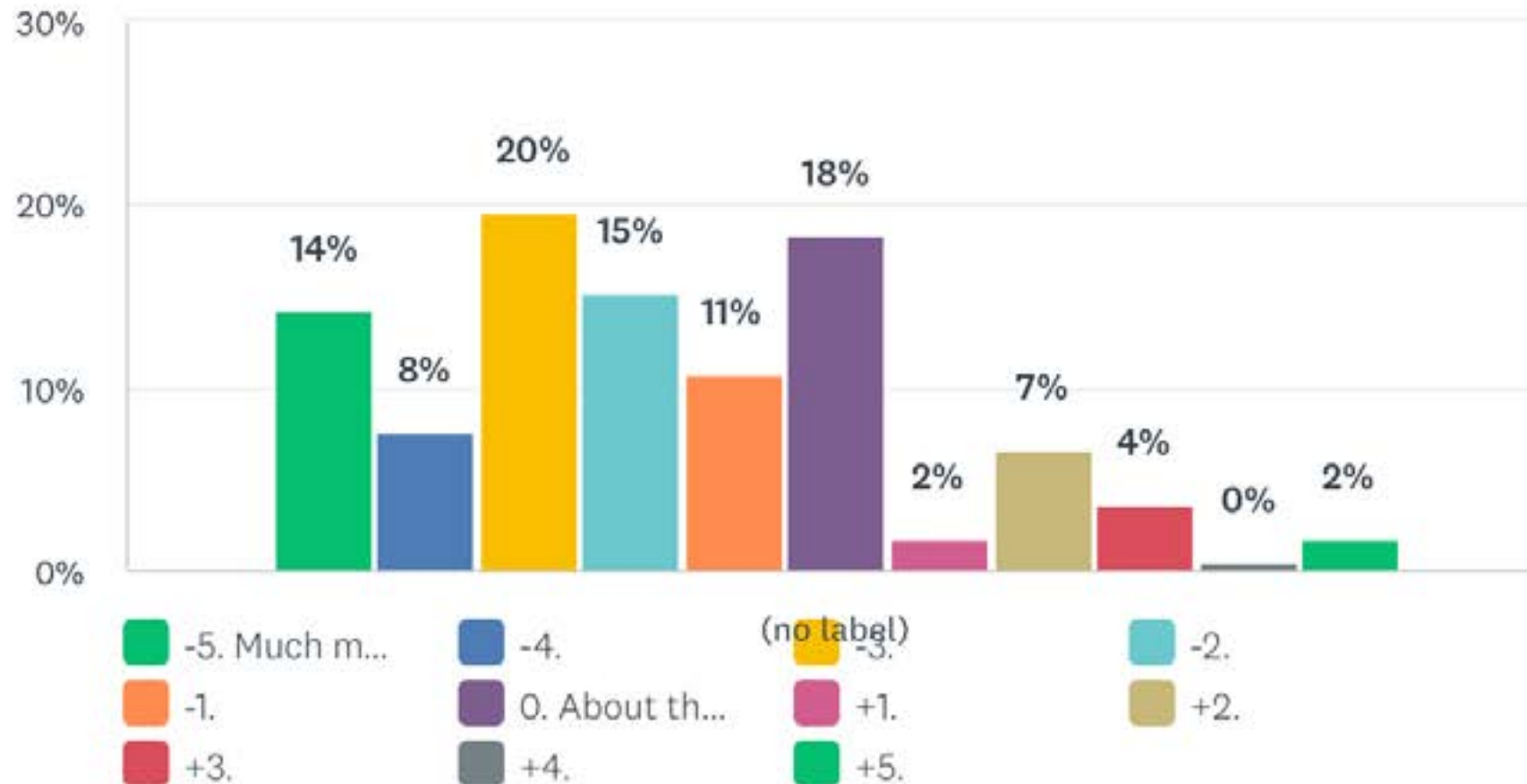
STUDENT OUTCOMES AND SKILLS The School District has a 'tradition of excellence' and currently operates at a high level. How important do you think it is for the school district to expand its efforts to produce high quality education for students and their ability to succeed? (Scale: 1 = Not at all important; 10 = Critically important)



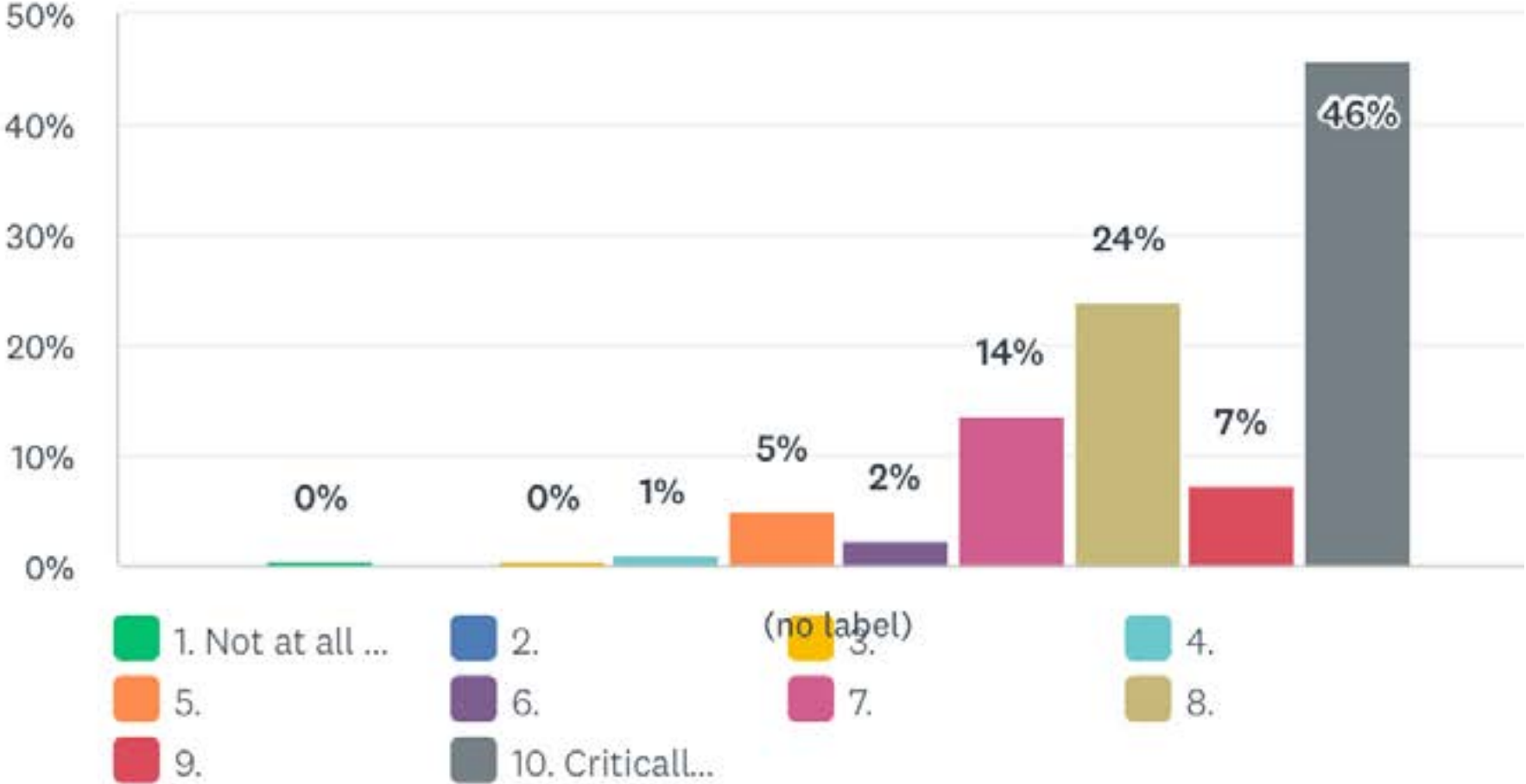
FUTURE LEARNING ENVIRONMENT FOR STUDENTS
 When thinking about the future educational environment for students, do you think the learning environment will be more challenging or easier? (Scale: -5 = Much more challenging; 0 = About the same; +5 = Much easier)



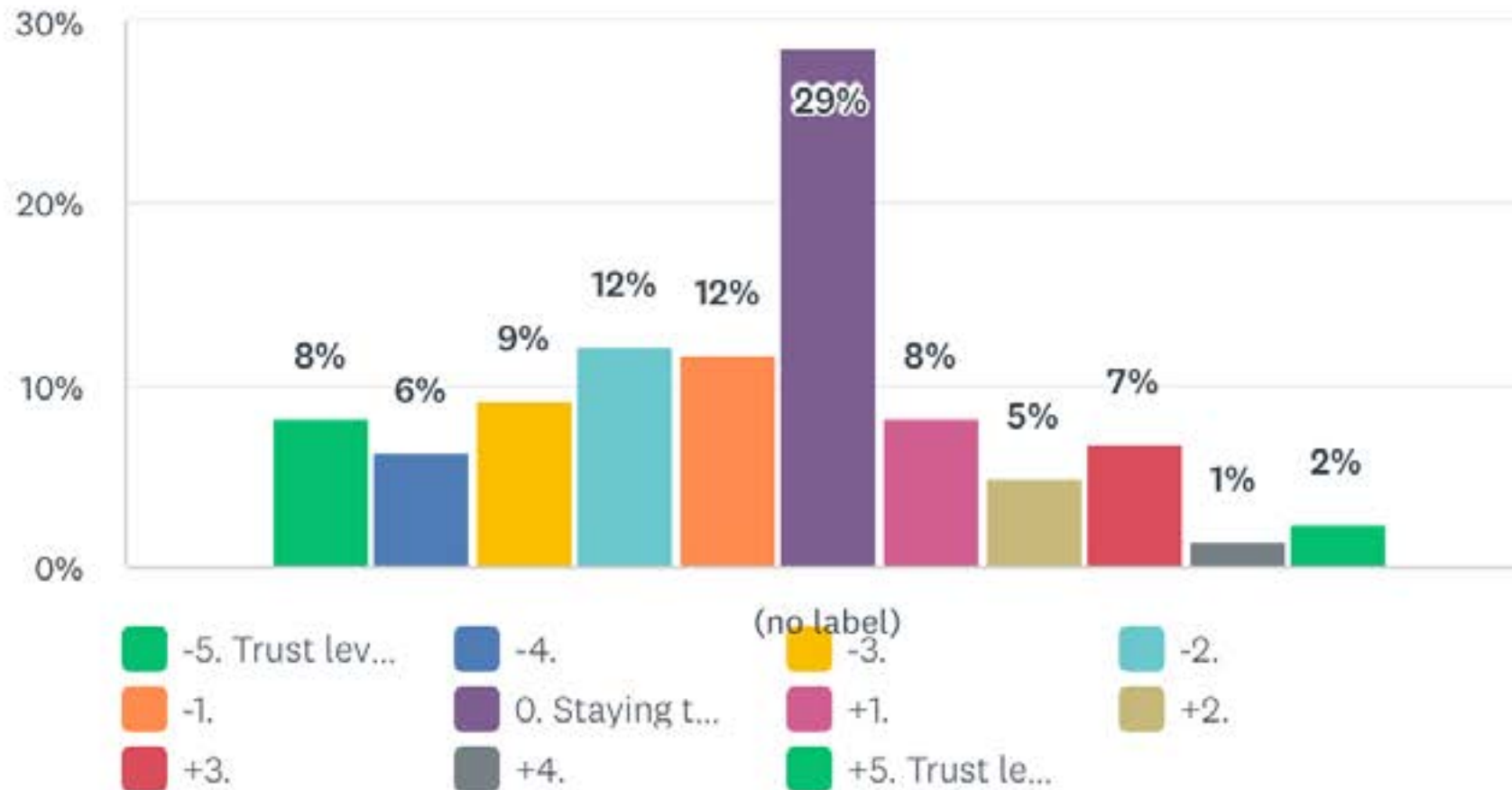
FUTURE WORK ENVIRONMENT FOR GRADUATES When thinking about the future work environment that graduates will face, do you think the environment will be more challenging or easier? (Scale: - 5 = Much more challenging; 0 = About the same; +5 = Much easier)



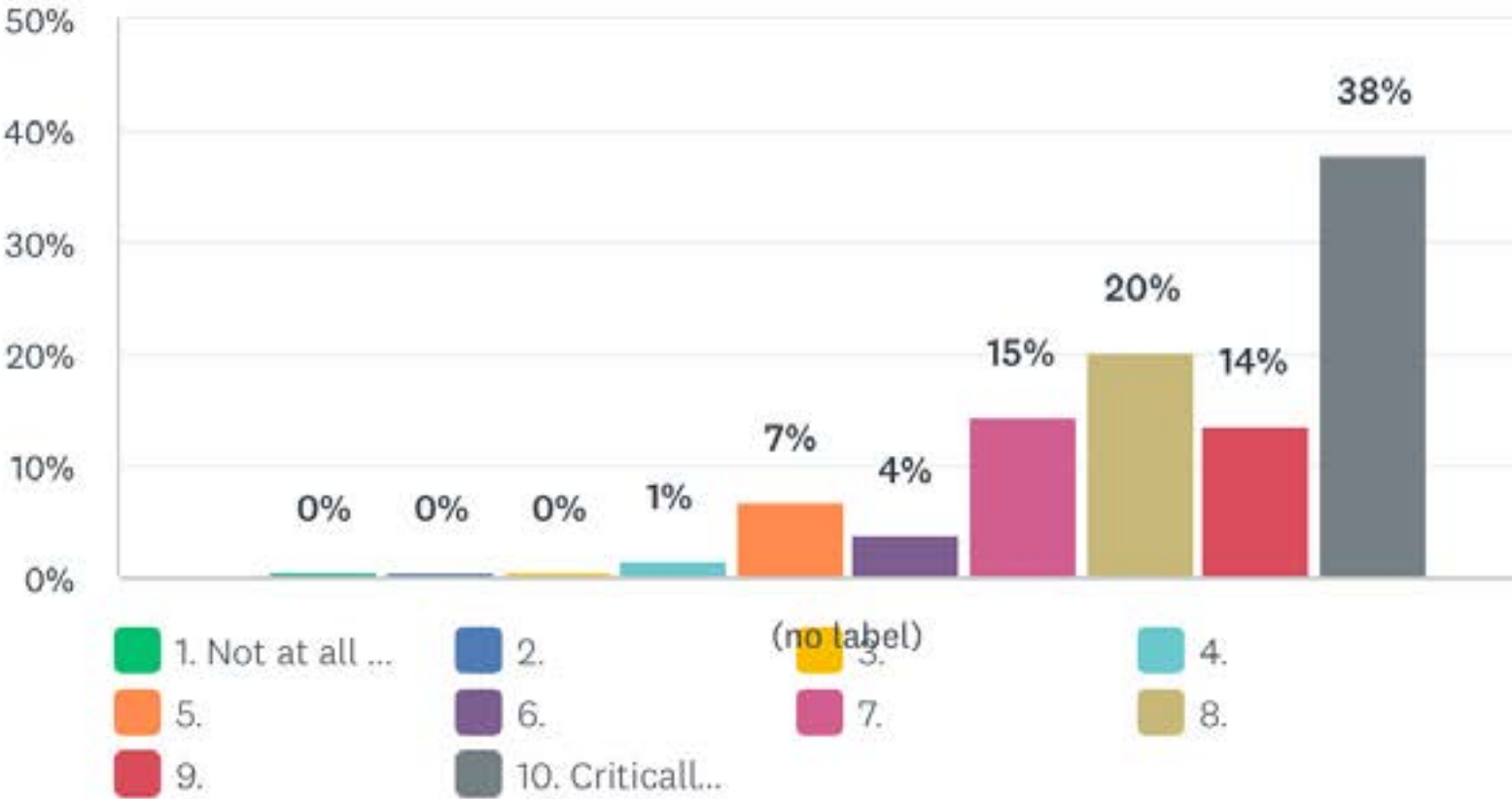
COLLABORATIVE PARTNERSHIP WITH PARENTS There is a desire to build a strong collaborative partnership between the School District and parents. How important is it for the School District to invest time and effort in building strong collaborative relationships and partnerships with parents? (Scale: 1 = Not at all important; 10 = Critically important)



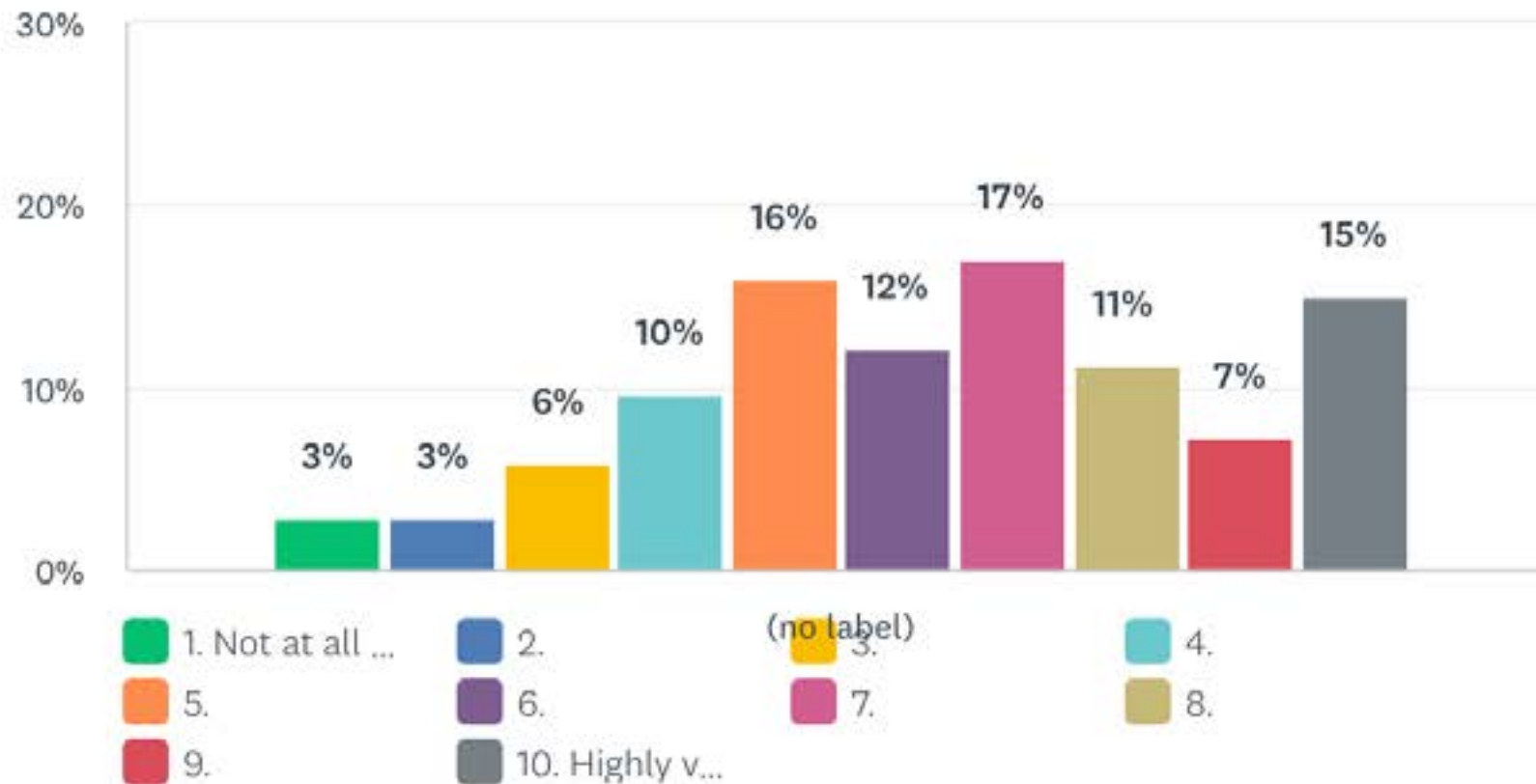
TRUST BETWEEN PARENTS AND THE SCHOOL DISTRICT Trust between parents and School District is critical. How do you think this trust relationship is changing? (-5 = Trust levels are declining; 0 = Staying the same; +5 = Trust levels are improving)



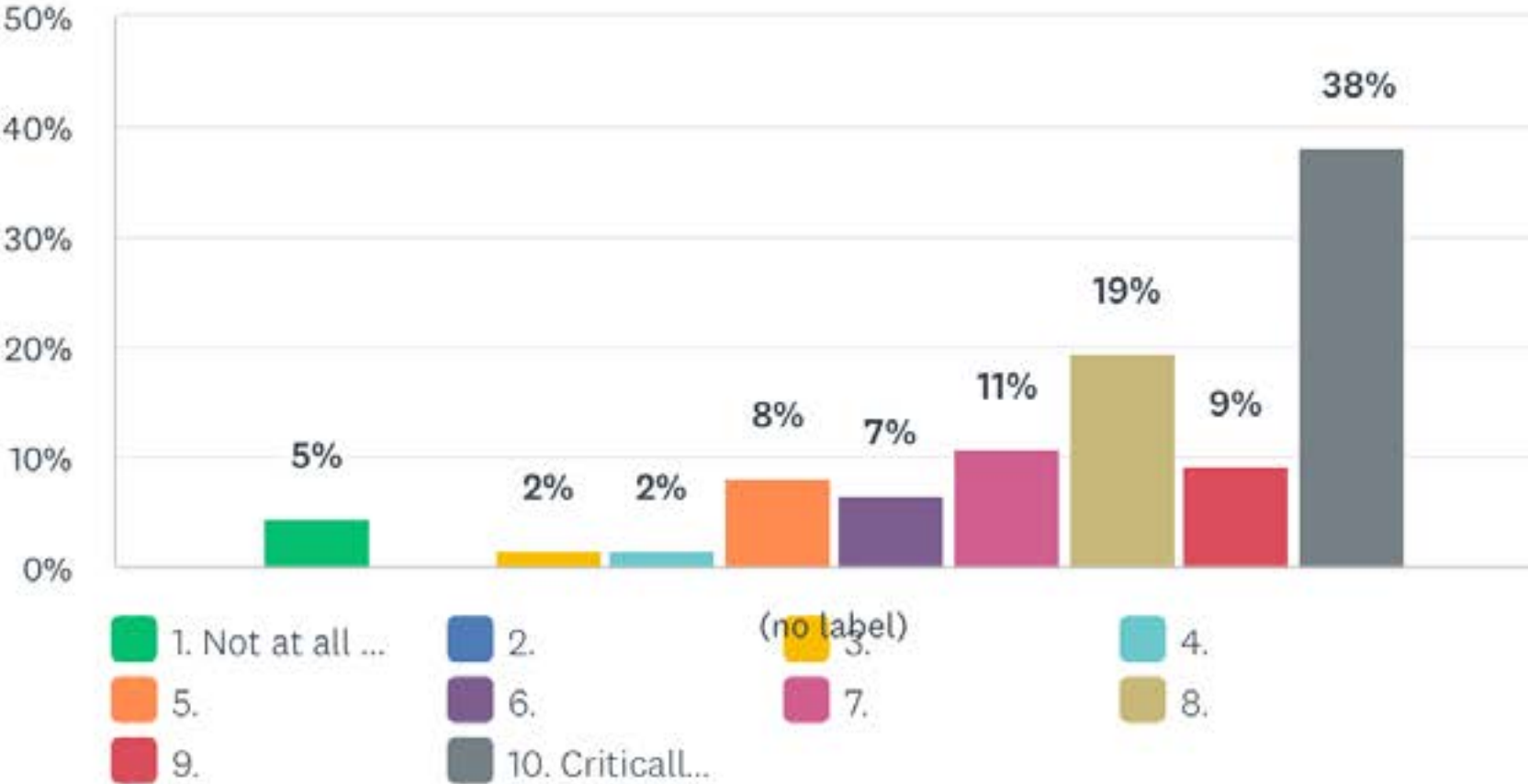
COLLABORATIVE PARTNERSHIP WITH THE SMITHVILLE COMMUNITY
 The success of a community is usually considered to be intricately tied to the success of the public school system. How important is it for the School District to invest time and effort in building strong collaborative relationships and partnerships with the Smithville community (including the City)? (Scale 1 = Not at all important; 10 = Critically important)



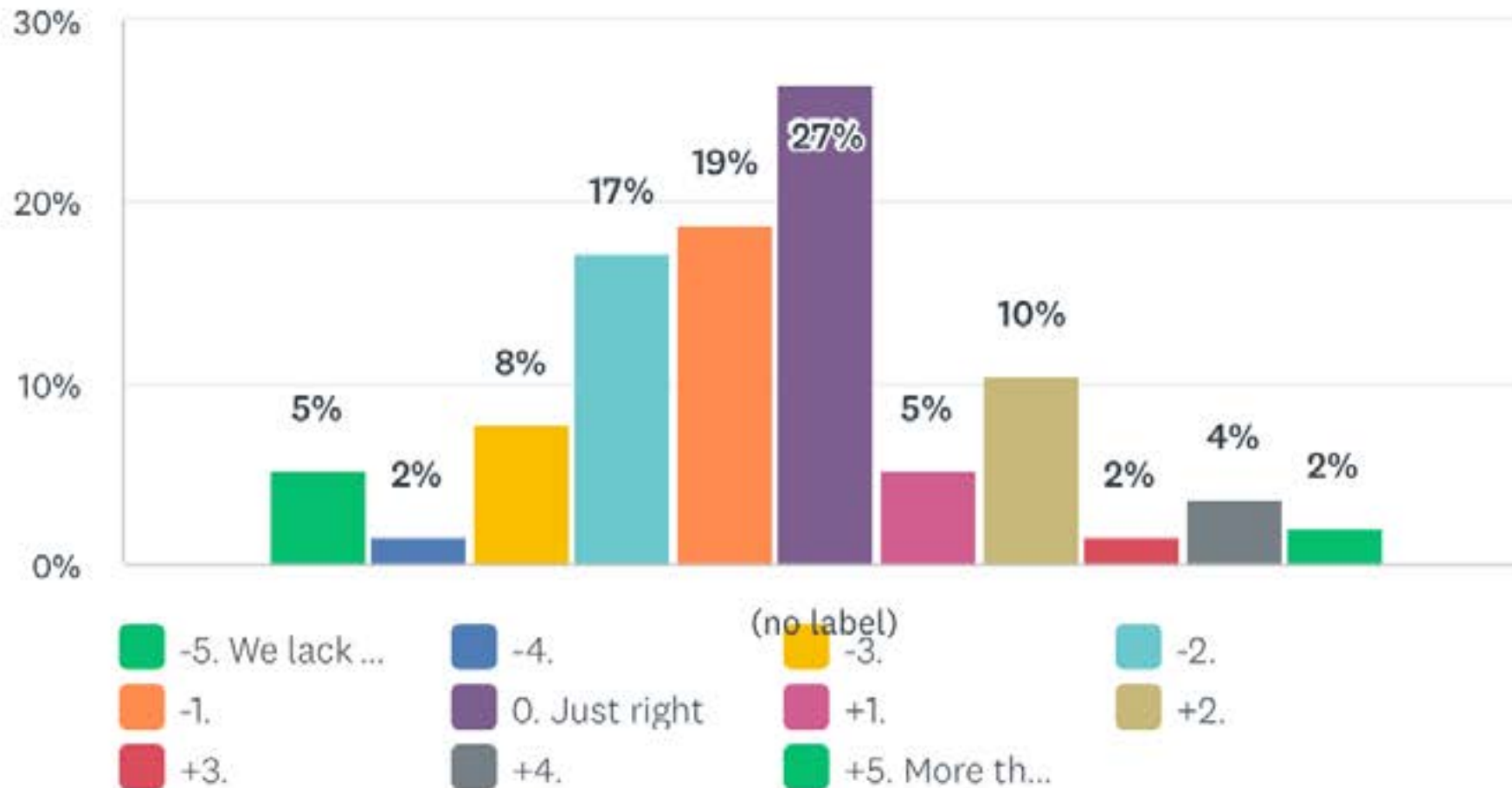
RESPECT FOR EDUCATION Looking ahead to an anticipated shortage of teachers across the country, the School District will need to compete for the high quality of teachers that currently exists in Smithville. Do you think that the role of education and teachers is sufficiently valued and respected in the Smithville community? (Scale: 1 = Not at all valued or respected; 10 = Highly valued and respected)



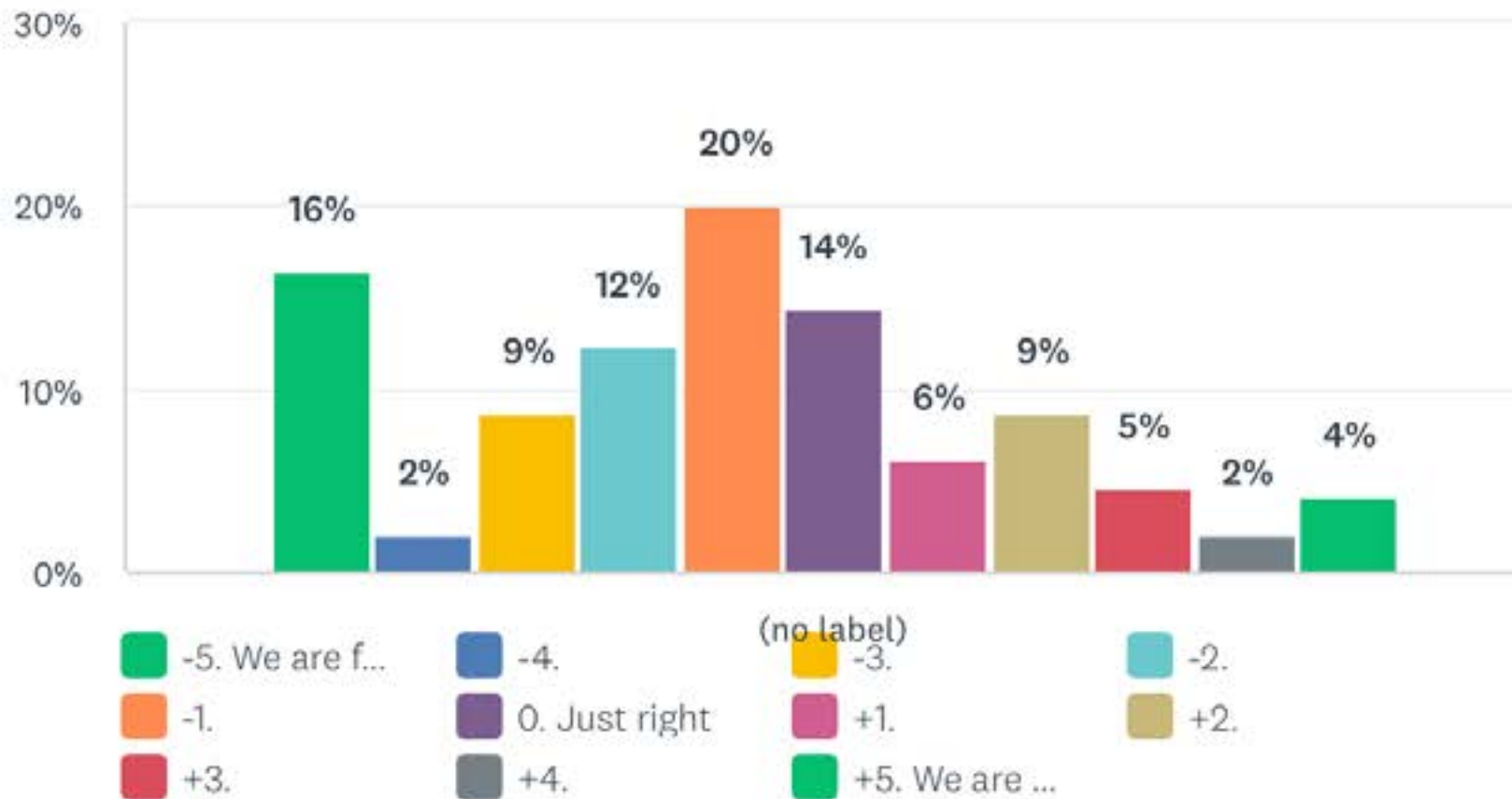
PURSUIT OF EXCELLENCE There seems to be interest in helping to move the Smithville School District from a great school system to be the premier or elite performing school system as it boosts the student outcomes and improves the competitive position of the School District and the community. How important do you think it is for the Smithville School District to pursue continuous improvement towards being a premier school system? (Scale: 1 = Not at all important; 10 = Critically important)



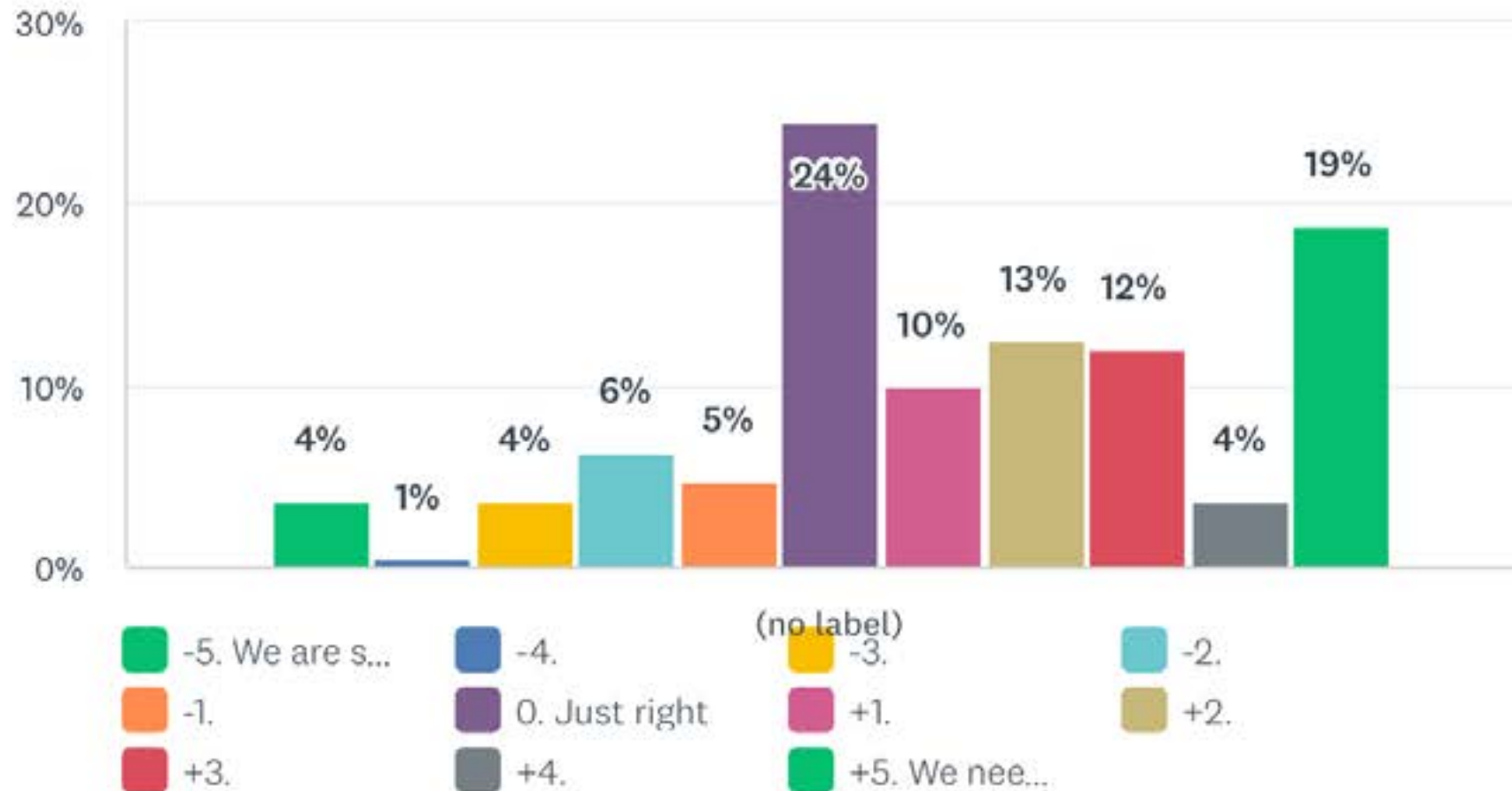
BUILDING CAPACITY AND CAPABILITY To be an innovative and successful School District, it is important to have sufficient capacity and capability to continue to evolve and adapt to changing needs. Do you think the Smithville School District currently has sufficient capacity/capability to adapt and succeed in today's rapidly changing world? (Scale: -5 = We lack capability; 0 = Just right; +5 = More than enough capability)



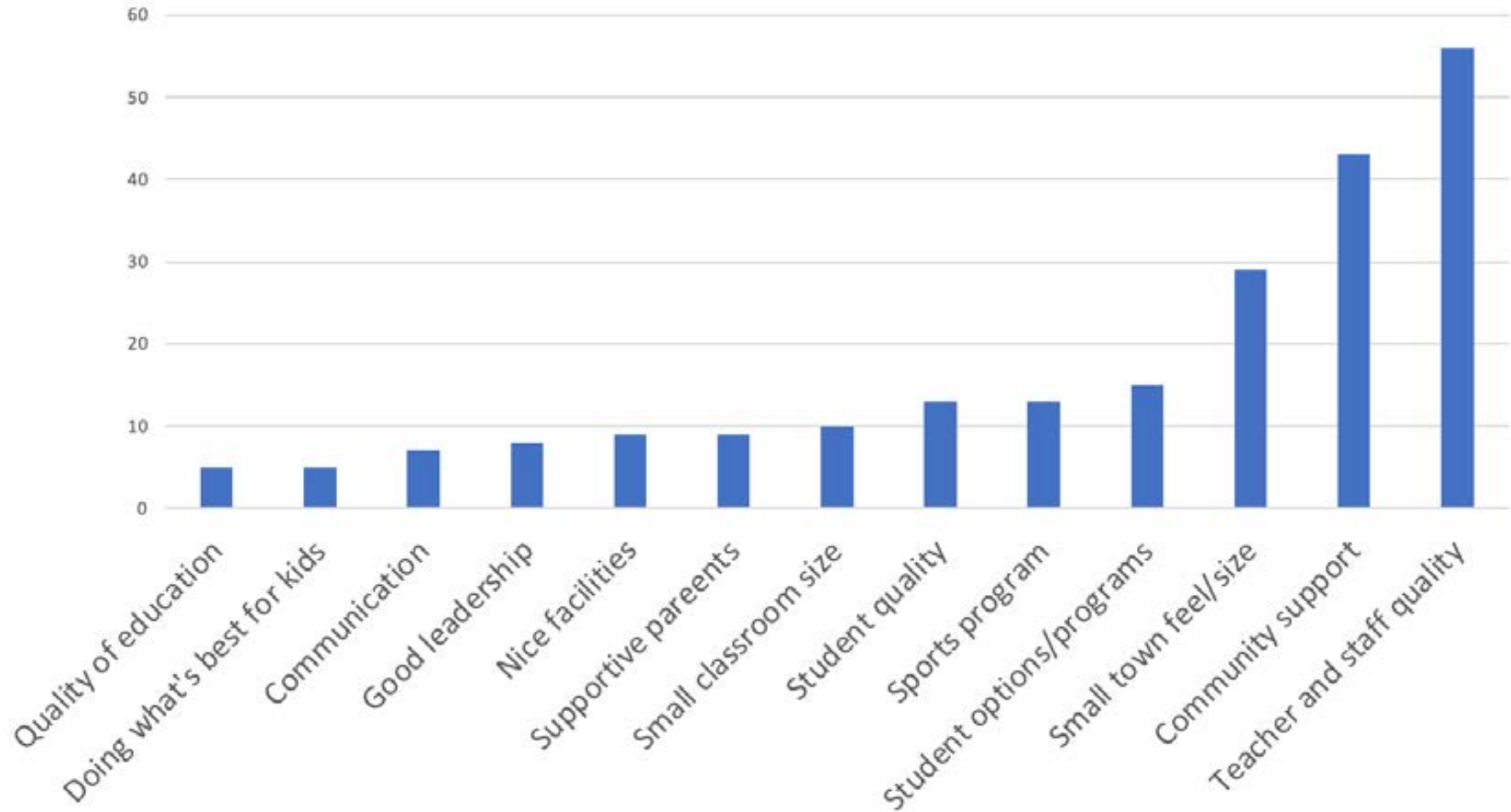
ATTRACTING AND RETAINING EDUCATIONAL TALENT Maintaining and improving performance will require having the right talent in terms of teachers and School District personnel. How well do you think we are currently doing in attracting and retaining the required quality of staff and teachers? (Scale: -5 = We are falling behind; 0 = Just right; +5 = We are doing very well)



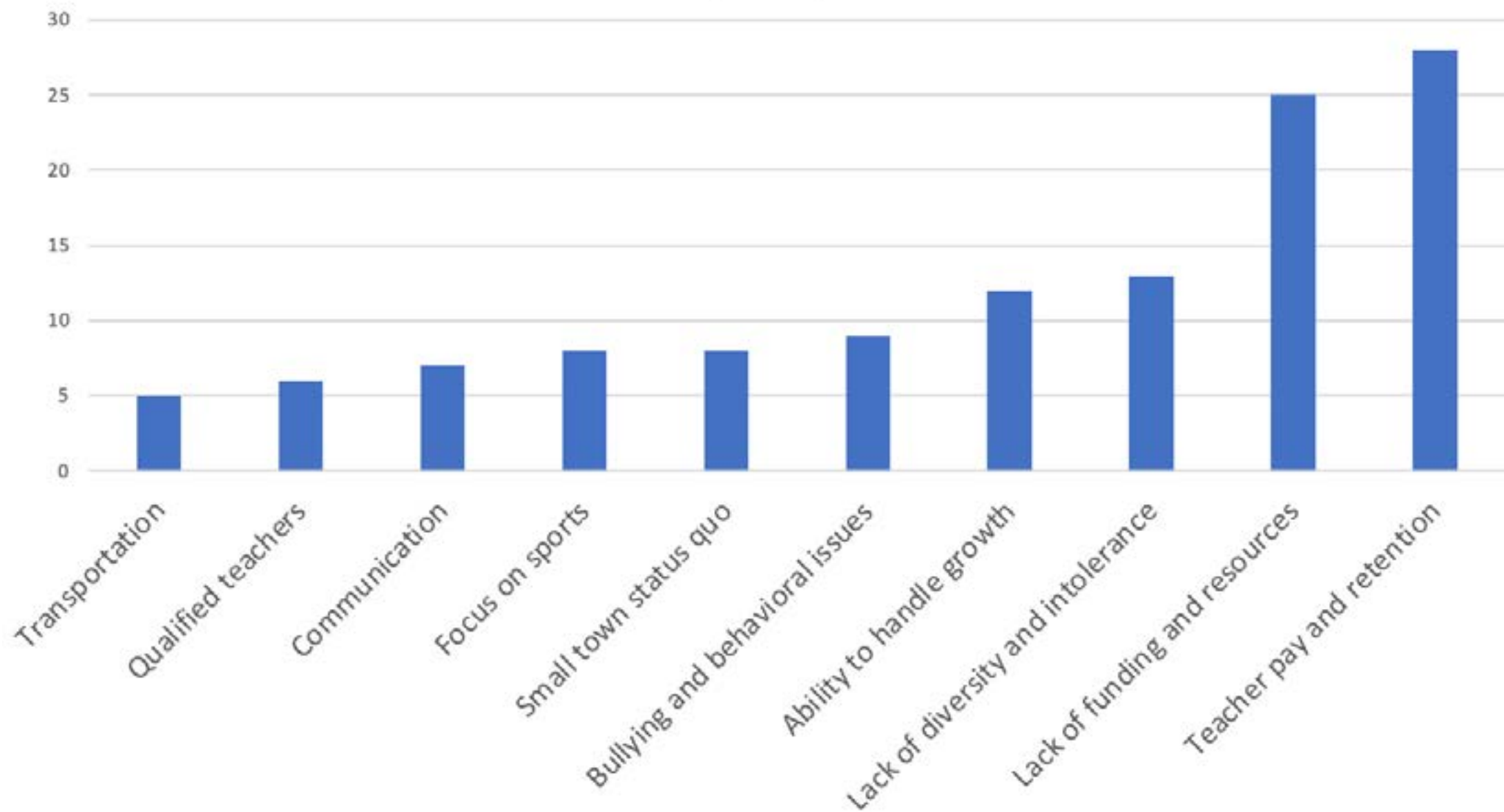
FUNDING AND INVESTMENTS Sustaining high quality education is competitive and costs money. In addition, the community is growing, and the future needs are expected to be higher. Considering this competitive landscape, do you think the Smithville School District current has the funding and investment levels (spending) to achieve and deliver the student outcomes we desire? (Scale: - 5 = We are spending too much; 0 = Just right; +5 = We need to invest more)



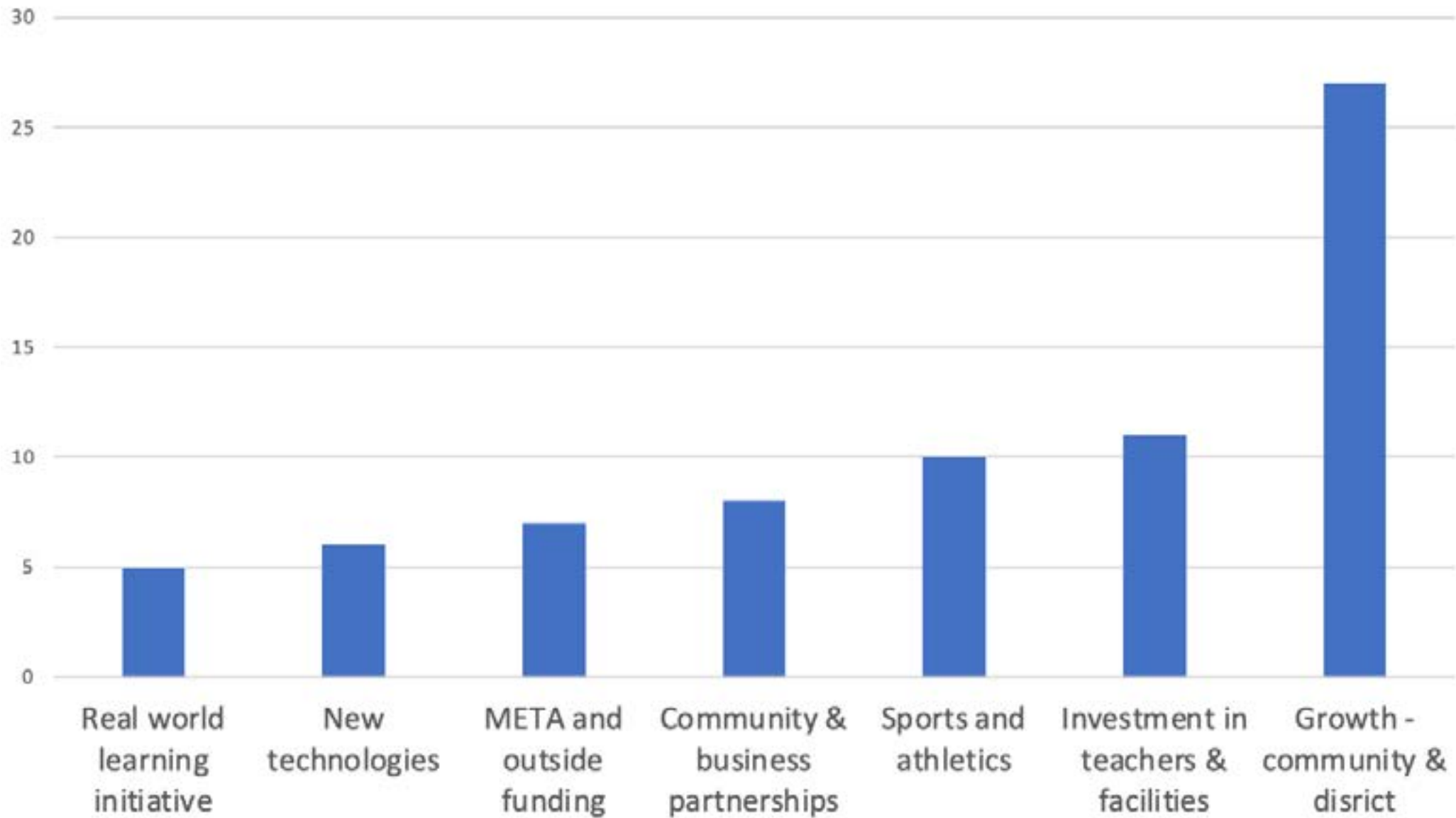
Smithville School District - Strengths (n = 138)



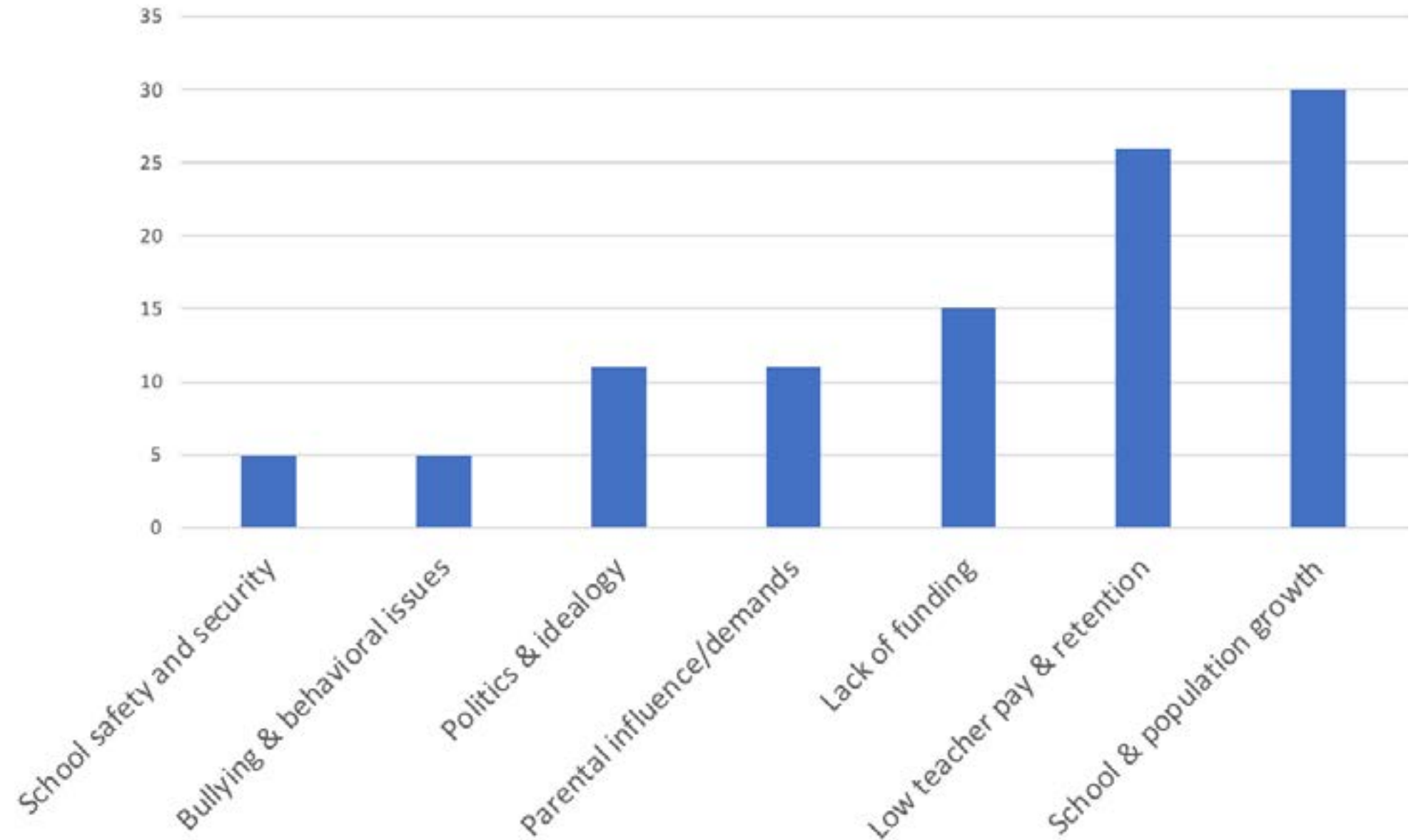
Smithville School District - Weaknesses (n=136)



Smithville School District - Opportunities (n = 100)



Smithville School District - Threats (n = 134)





WELCOME TO THE
SMITHVILLE SCHOOL DISTRICT
STRATEGIC ACTION PLANNING
PROJECT



Scenario Development

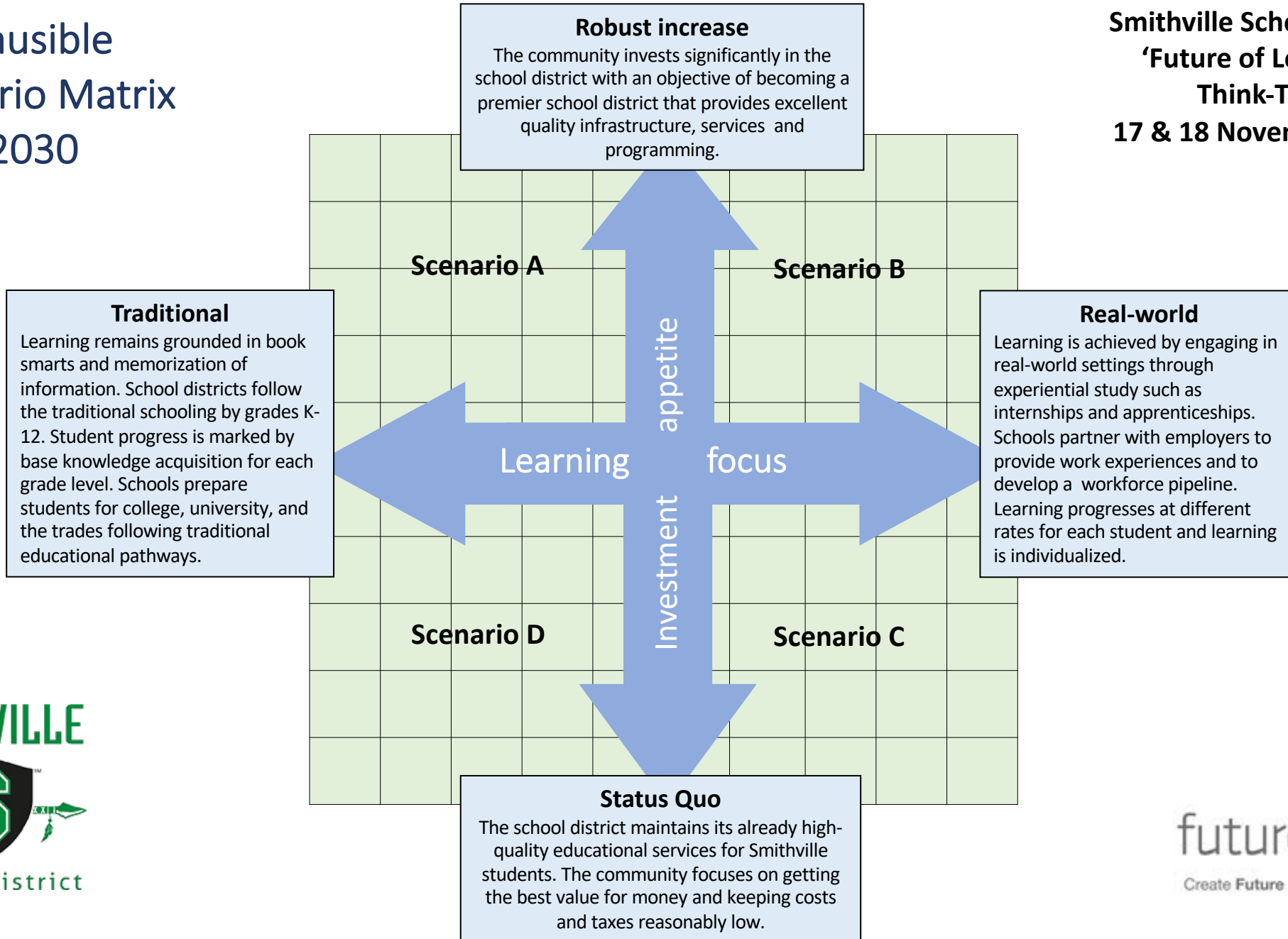


**Think-Tank
Day 1**



Plausible Scenario Matrix 2030

Smithville School District
 'Future of Learning'
 Think-Tank
 17 & 18 November 2022





Scenario Development

Breakout Group Handout Packs

**Smithville School District 'Future of Learning,
Think-Tank Plausible Scenarios**

November 17, 2022 - Day 1





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 – 2023, 2025, 2030 (10m)
0:55 min	Short scenario name and description (5m)
0:60 min	Return; ready to present

Scenario name (A):

**Education and Learning System
Characteristics – 2030**

**School District Infrastructure and
Resources Characteristics - 2030**

**Students, Parents, and Community
Characteristics - 2030**

Scenario Characteristics - Dimensions to Consider

Education and Learning System Characteristics

- School services and extracurricular programs
- Academic rigor and course offerings
- Student involvement
- Early childhood and special education
- School administration, teachers, and staff

School District Infrastructure and Resources Characteristics

- School facilities and location
- Accessibility and transportation
- Cost of living and community amenities
- Funding resources
- Teacher and staffing resources

Students, Parents, and Community Characteristics

- Student population makeup, growth, and locations
- Underlying community trust
- Community partnerships with education
- Parental engagement and involvement
- Community reputation



Headline News (Scenario A)

Education and Learning System Characteristics	School District Infrastructure and Resources Characteristics	Parents, Teachers, and Community Characteristics
2023	2023	2023
2025	2025	2025
2030	2030	2030

Potential Pitfalls.....

- Not staying in your swim lane (your scenario)
- Trying to 'fix' the scenario
- Emotional reaction; not objective forecasting
- Remember - we are exploring possible futures; not deciding on preference
- People dominating the discussion (not listening)





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 – 2023, 2025, 2030 (10m)
0:55 min	Short scenario name and description (5m)
0:60 min	Return; ready to present



Scenario Development

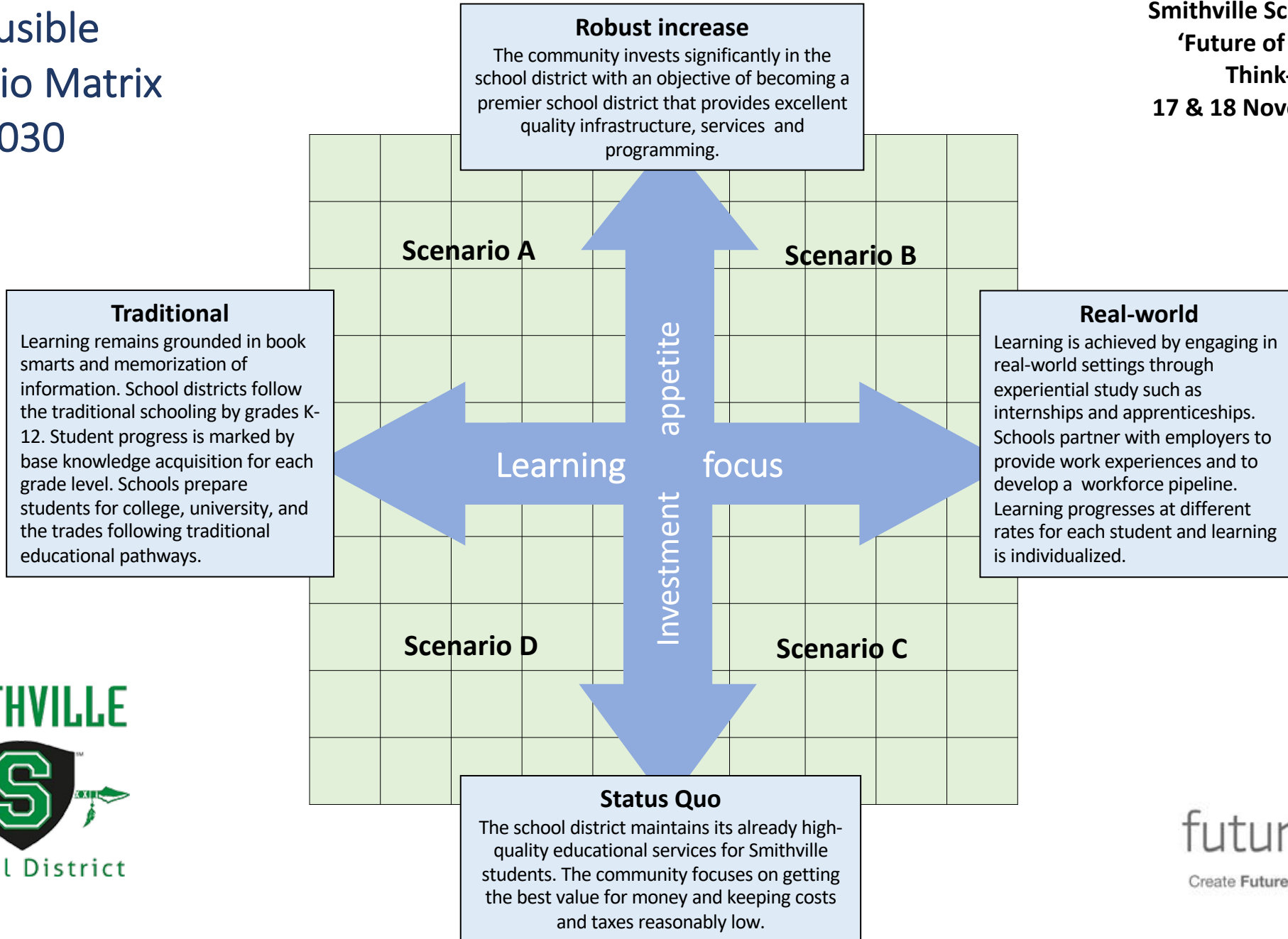
REPORT BACK

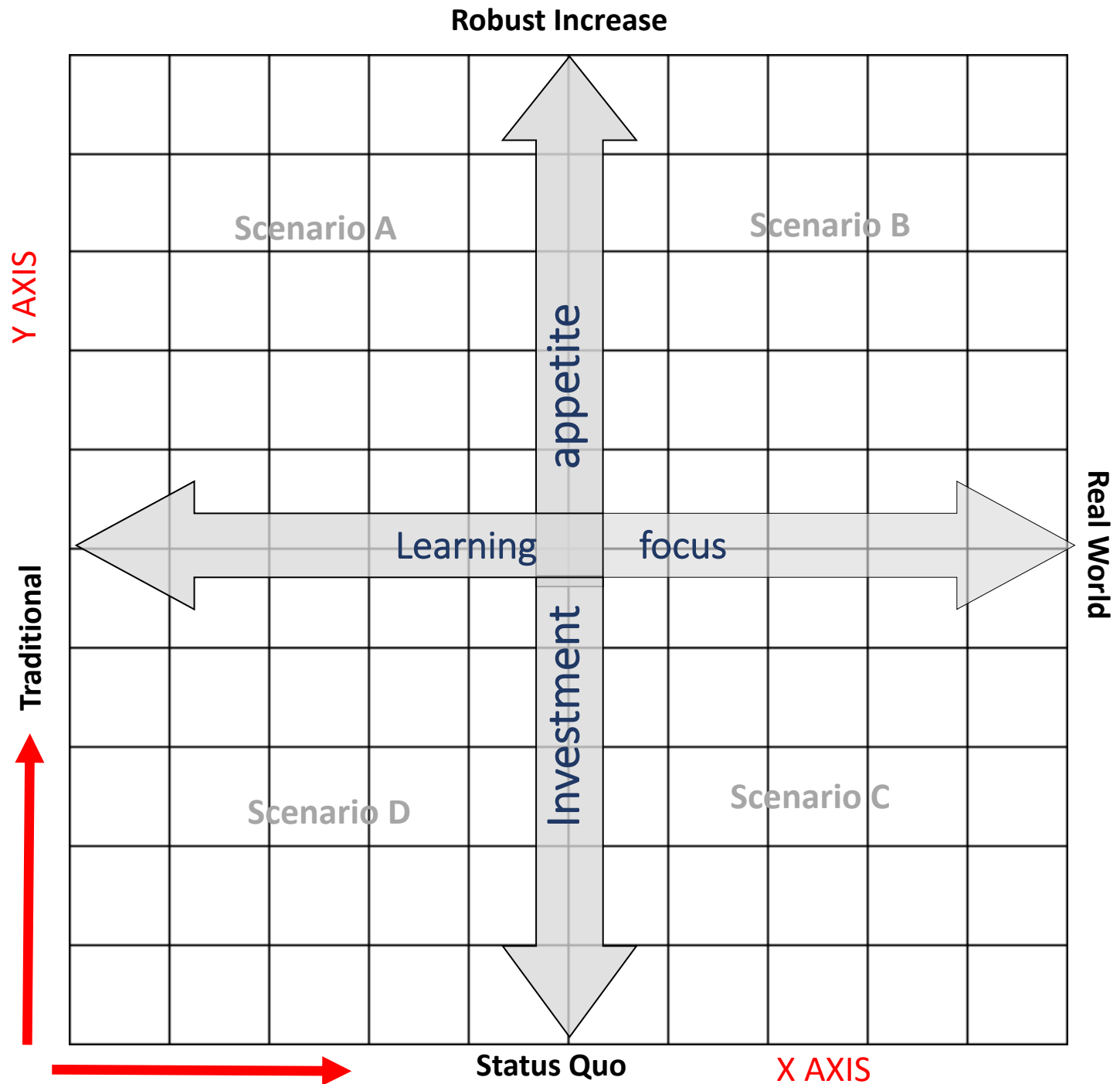
Smithville School District Future of Learning Think-Tank - Plausible Scenarios



Plausible Scenario Matrix 2030

Smithville School District
 'Future of Learning'
 Think-Tank
 17 & 18 November 2022





**Smithville School District
'Future of Learning'
Think-Tank
Heatmaps**

17 & 18 November 2022

Instructions

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

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

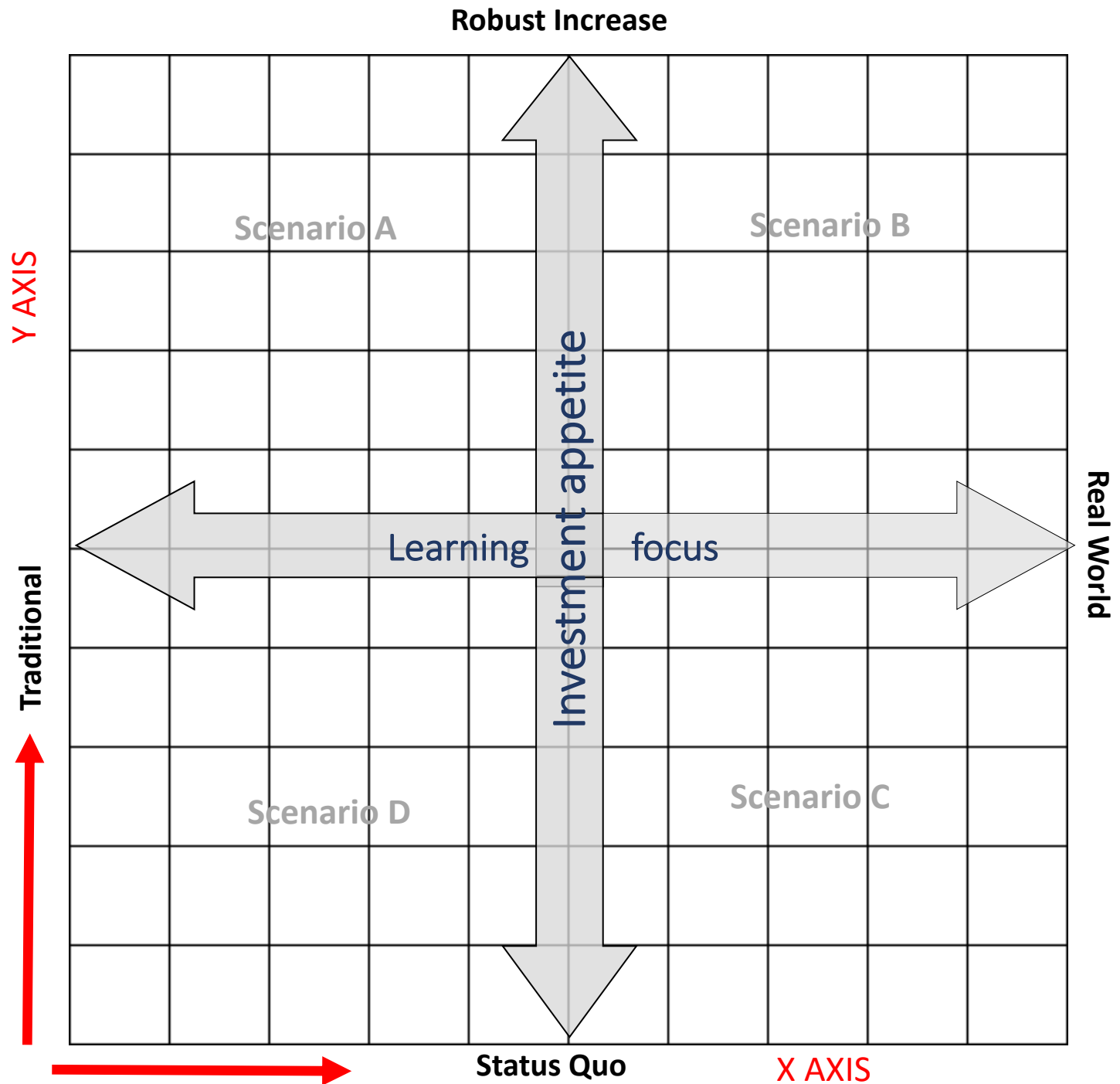


Smithville Vision 2030

Expected, Most Preferred and Least Desirable Future

- 1. EXPECTED FUTURE:** Expected Future is the future you expect most likely to eventuate by 2030, if existing trends and trajectory persists.
- 2. MOST PREFERRED FUTURE:** The Most Preferred Future is the future you think is absolutely optimal and creates the best outcomes for the community of in 2030.
- 3. LEAST DESIRABLE FUTURE -** The Least Desirable Future is the future that you think will be most undesirable (or least optimal or least desired) future of the community in 2030.

HEAT MAPS and DISCUSSION



**Smithville School District
'Future of Learning'
Think-Tank
Heatmaps**

17 & 18 November 2022

Instructions

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

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





**Your opportunity and future role:
Sign-up to stay involved**

<https://lab2.future-iq.com/smithville-school-district/>



Thank you!

www.future-iq.com

future → iQ

Create Future Intelligence™

www.future-iq.com

