



July 2021

University City Community Vision 2040 Project Plan



Planning, schedules. project page and portal

Create and explore

different plausible

community futures

PHASE 1 Initial Planning and Project Set-Up

[July 2021]

PHASE 2 Survey and Future Scenario Speculation

[Aug - Apr 2022]

Broad Community Community engagement to build shared vision and alignment

[May - June 2022]

PHASE 3

Engagement

PHASE 4 **Final Report** Initial planning and schedule

Engagement and communications plan

Website project page and portal

Community Survey #1

Convene Task Force

Community Listening Sessions

Discussion Board

Survey data visualization

University City Think-Tank Workshop

Scenarios of the Future Think-Tank Report

Community Survey #2, data collection and analysis

· Strategic Pillar Focus Groups (in-person and virtual)

Draft and finalize Report

Presentation of the University City Community Vision 2040 Roadmap Report

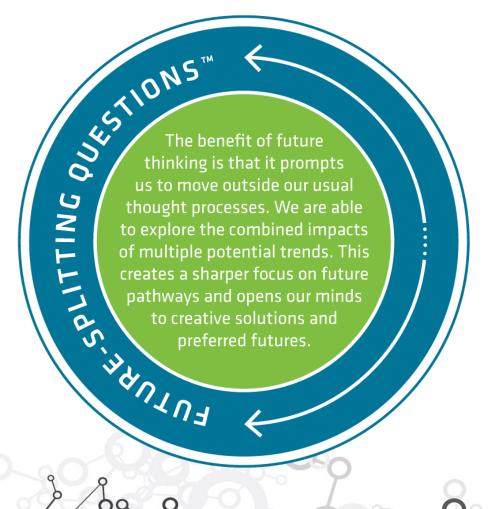
Final University City Community Vision 2040 Roadmap

[May - July 2022]

2



The Importance of Future Thinking



Dealing with change

- The various factors that create change can be quite complex.
- The result is a higher degree of uncertainty and reduced predictability about the future.
- This uncertainty can leave people confused and wary about the future.
- Yet, we can still anticipate that certain things will change. Trends emerge, evolve and create new trajectories.

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 the combined impacts of multiple potential trends.

The magic is how it alters our perceptions of how certain decisions might play out over time.



The challenge for the Think-Tank

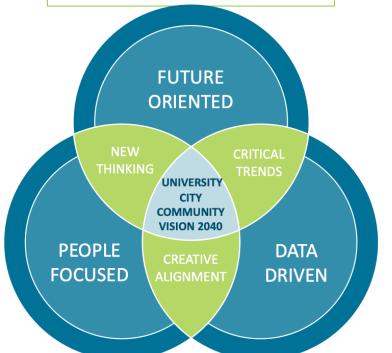
- Explore the future -
- Ask the hard questions -
 - Think creatively -

The outcome may be a new view of the future.



What is the future of University City?

This project will examine critical emerging trends in cities, towns and regions to create an understanding of local implications and opportunities.





Forward looking visioning process which will ultimately shape planning and investment

Structured people focused University
City community input will build
knowledge and strengthen the
community ecosystem.

Data driven analysis of project engagement results will empower leadership to make research-based decisions.

With the current pandemic, and in a time of uncertainty....

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



Which trends are being amplified and accelerated?

- Reinvention of cities
- Application of automation and robotics
- Instant health data
- Personal recognition and tracking
- On-line commerce and retail



Forces impacting the world (and regions)

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



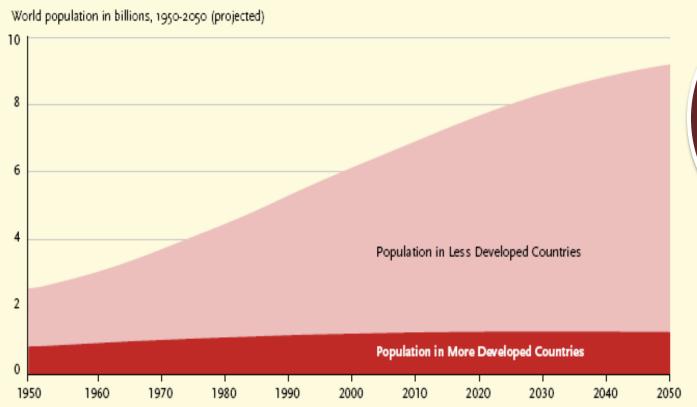




Demographics, population and mass urbanization

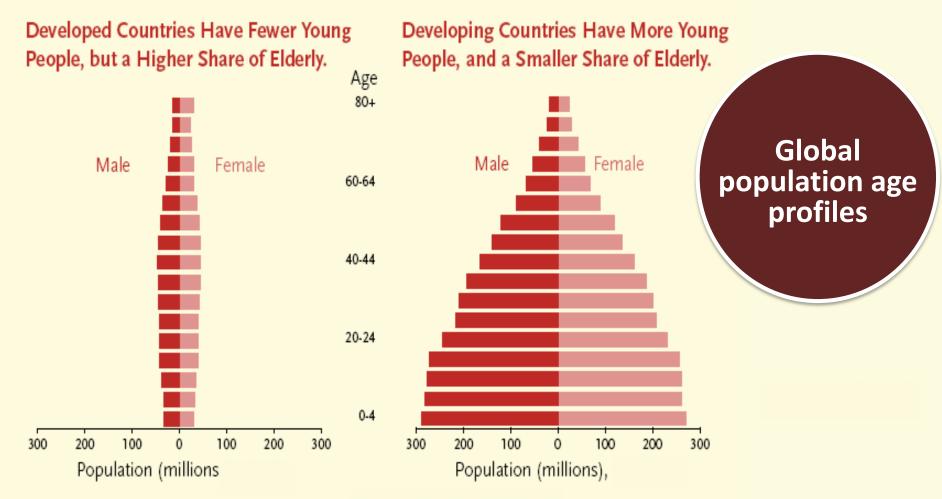
future>iQ

Global Population Growth Is Driven By Developing Countries.

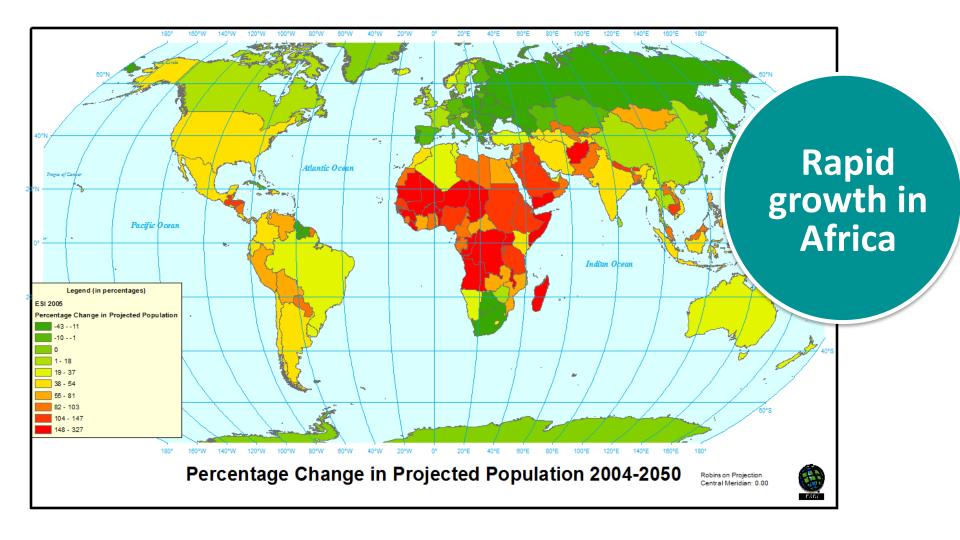




Source: United Nations, World Population Prospects:



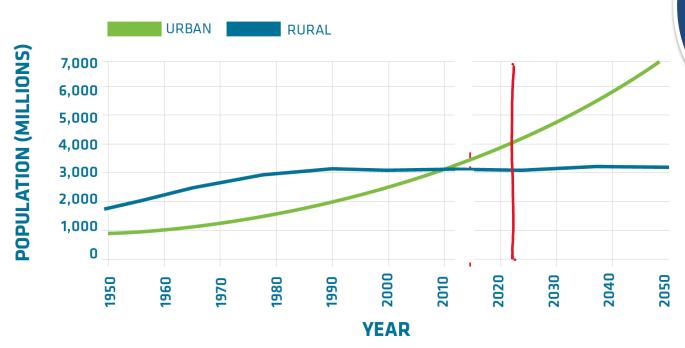
Source: United Nations, World Population Prospects:



"The urban population in 2014 accounted for 54% of the total global population, up from 34% in 1960, and continues to grow."

World Health Organization (2015)

URBAN AND RURAL POPULATION OF THE WORLD, 1950-2050



Becoming more urban

FUTURE OF URBAN LIVING

When we think of human evolution, we often picture homo sapiens wandering around the savannah. However, something remarkable is happening. Between 1950 and 2050 humanity is making a massive pivot from being a primarily agrarian rooted species to an urban dwelling species. And this pivot is accelerating.



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%

9 25% - 50%

Less than 25%





AN URBAN WORLD

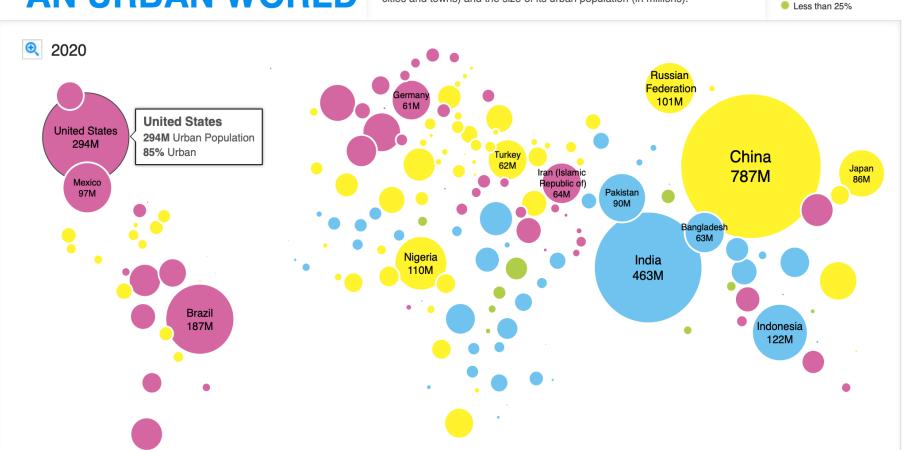
This graphic depicts countries and territories with 2050 urban populations exceeding 100,000. Circles are scaled in proportion to urban population size. Hover over a country to see how urban it is (percentage of people living in cities and towns) and the size of its urban population (in millions).

Urban Population

Greater than 75%

50% - 75%

25% - 50%





AN URBAN WORLD

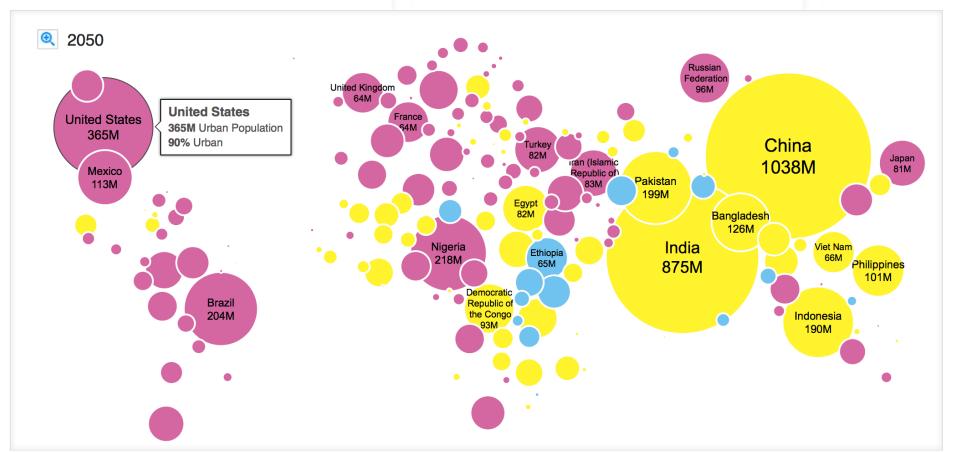
This graphic depicts countries and territories with 2050 urban populations exceeding 100,000. Circles are scaled in proportion to urban population size. Hover over a country to see how urban it is (percentage of people living in cities and towns) and the size of its urban population (in millions).

Urban Population

Greater than 75%50% - 75%

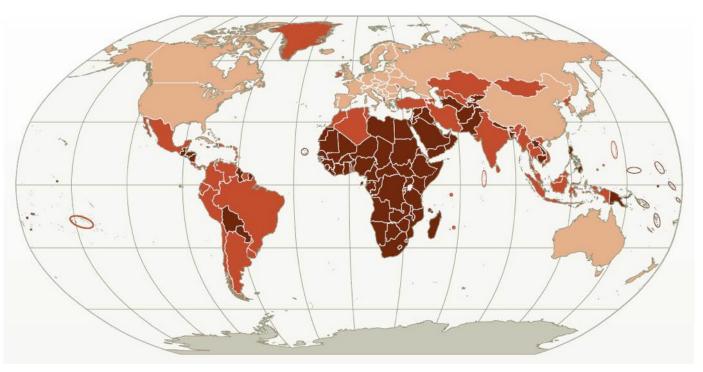
25% - 50%

Less than 25%



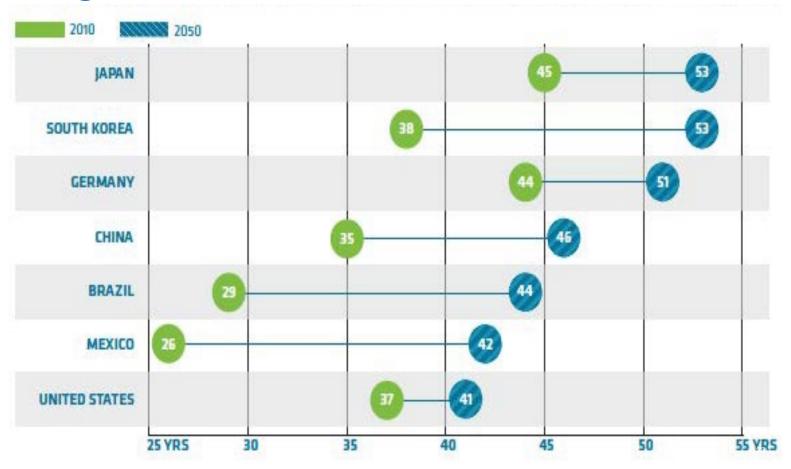


Global Aging Population



Source: Global Trends 2030: Alternative Worlds, National Intelligence Council

Median age in selected countries





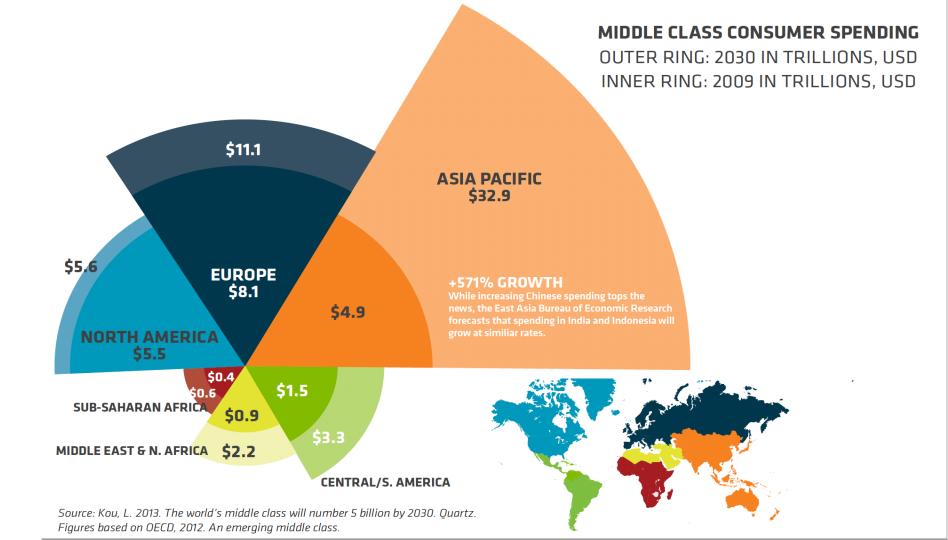
We didn't see this coming



SURPRISE #3

We will build an entire New York City every month...

... for 40 years! The world's building stock will double by 2060.



Built Environment is a Direct Reflection of the Underlying Economy





Agriculture Economy

- 1st version of the American Dream
- "40 Acres and a Mule"

Built
environment
reflects underlying
economy



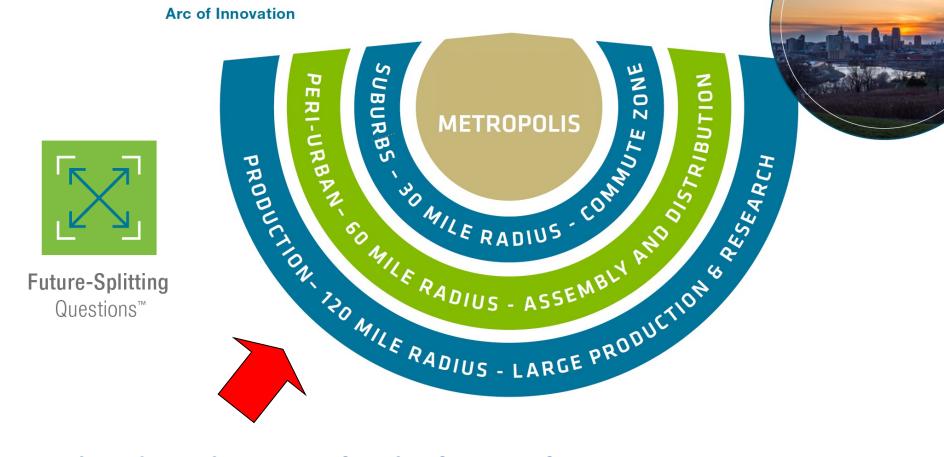
Industrial Economy

- 2nd version of the American Dream
- Drivable Sub-urban..."See the USA in Your Chevrolet"

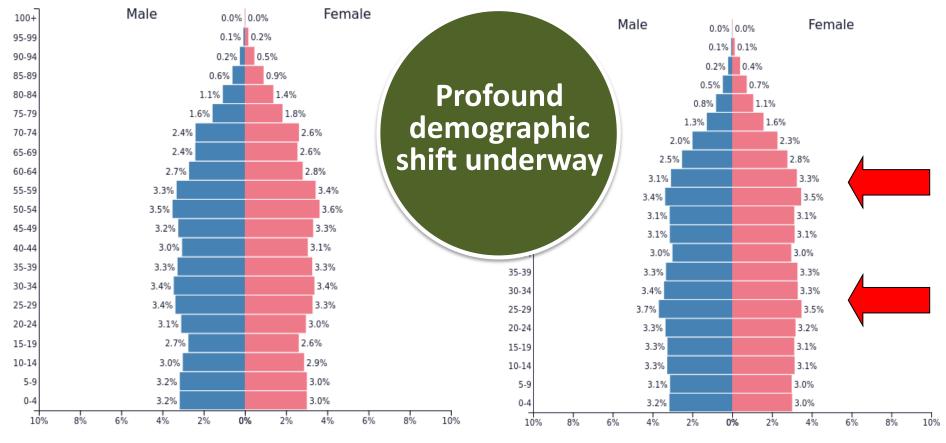


Knowledge/Experience Economy

- Current/Future version of the American Dream
- Option of Walkable Urban and Drivable Sub-urban



What does this mean for the future of cities like University City?



PopulationPyramid.net

United Kingdom - 2019
Population: 66,310,254

PopulationPyramid.net

United States of America - 2019 Population: 331,195,364



Predictions and observations



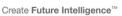
- Generational change is coming which will trigger widespread upheaval of norms.
- Supply chains will cluster around mega-cities, in specialized cities and regions.
- Innovation will occur in every arc, but with differing human component.

Demographic + Population + Mass Urbanization



What does this mean for **University City?**

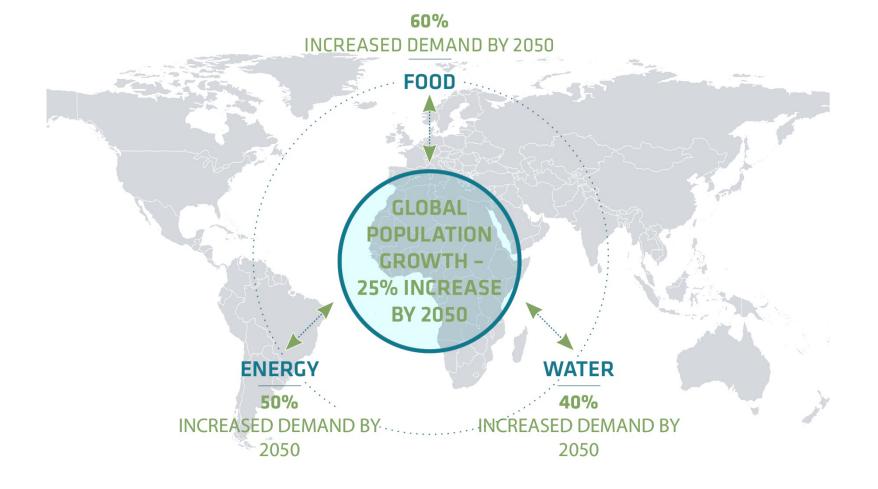


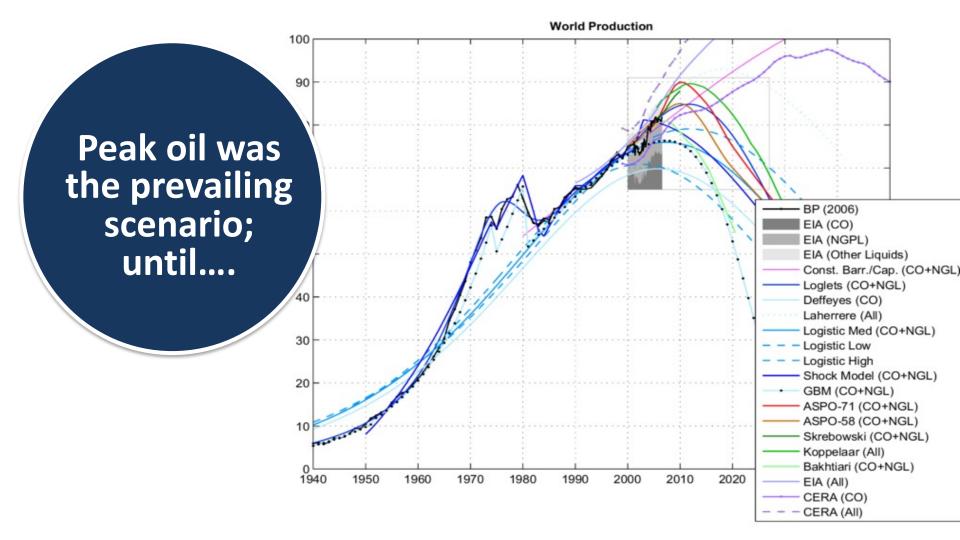




Energy + Water + Food + Climate Change











Huge shale oil deposits

Source: U.S. Energy Information Administration based on data from various published studies, Canada and Mexico plays from ARI. Updated: May 9, 2011



Potential for unlimited cheap 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

WE HAVE A BIG PROBLEM WITH OVERWEIGHT & OBESITY

1.9 BILLION

ADULTS ARE OVERWHEIGHT OR OBESE

1 in 12

ADULTS HAVE DIABETES

42 MILLION

CHILDREN ARE OVERWEIGHT

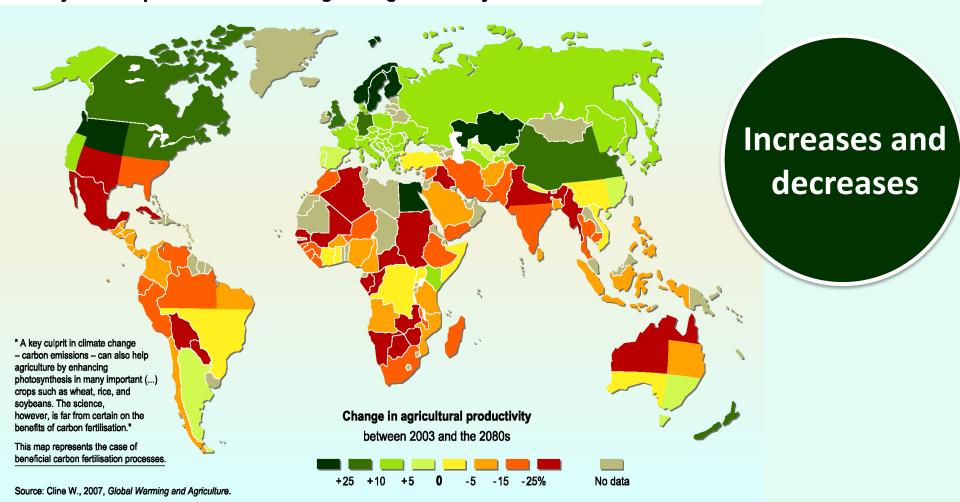




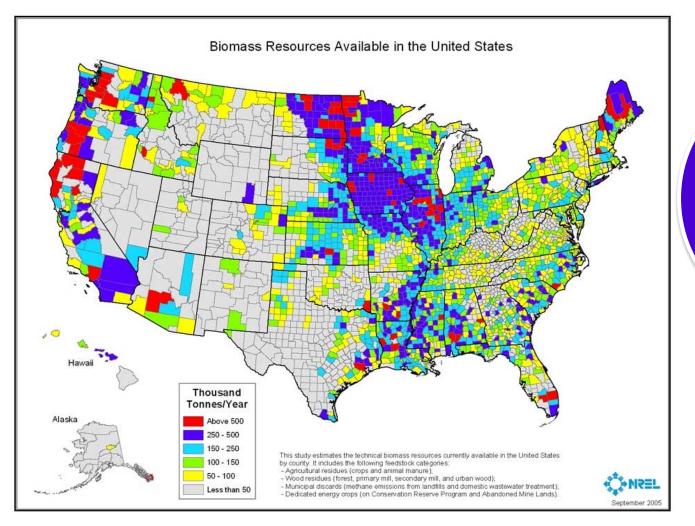
Prevalence of undernourishment in the total population (percent) in 2016-18

issue

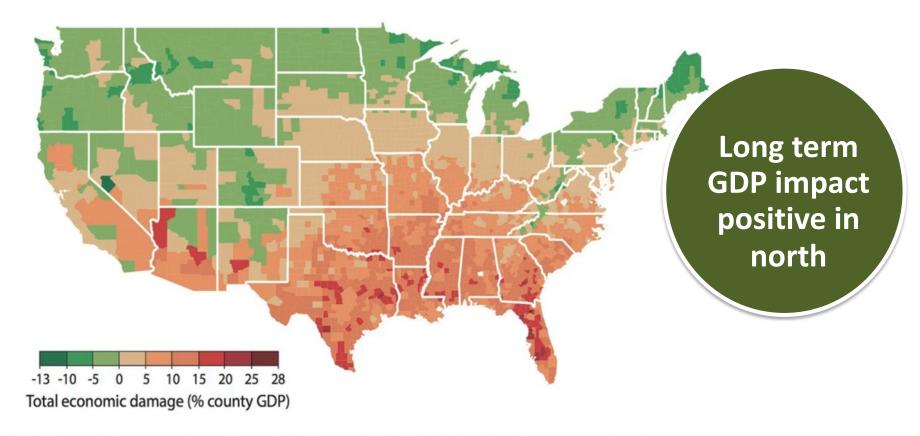
Projected impact of climate change on agricultural yields











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

Predictions and observations

- Growing disconnect between where food will be consumed, and where it can be grown.
- Changing consumer demands will drive healthy food;
 pivot to plant-based will accelerate.
- Midwest poised to capitalize on intersect of water, energy and biomass / food production capability.

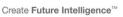


Energy + Food + Water + Climate Change



What does this mean for **University City?**





Technology and the speed of change







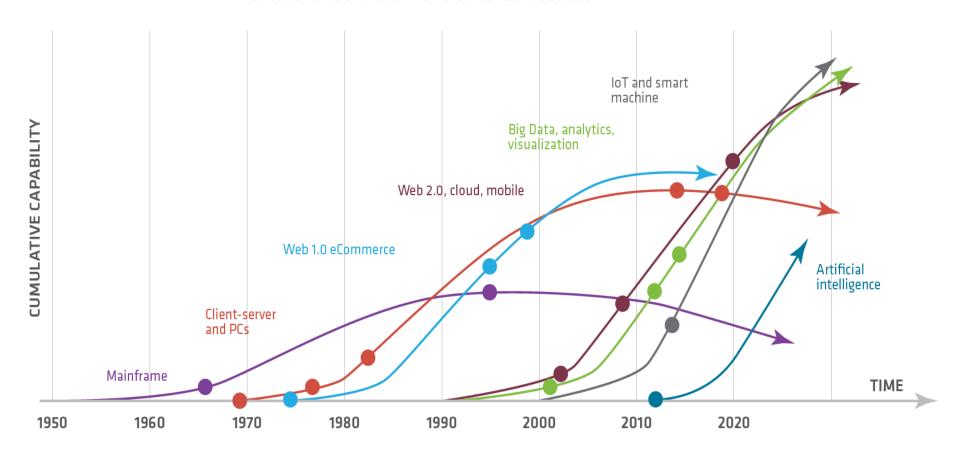
What makes this industrial revolution different?

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

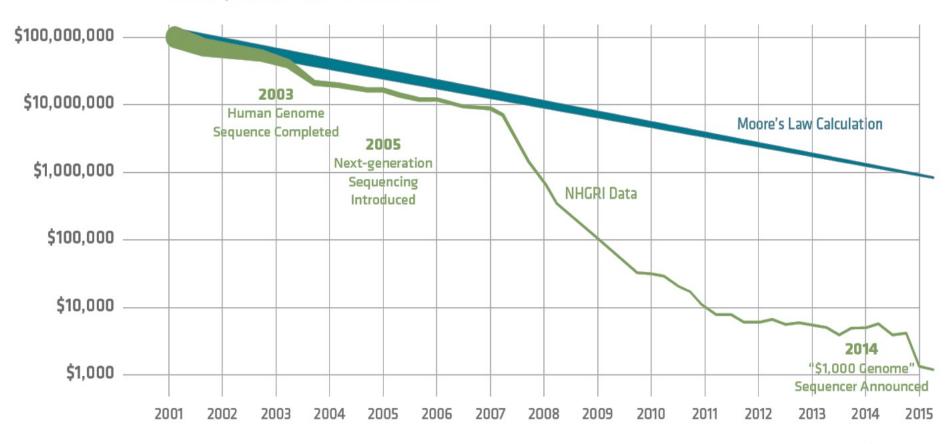


1.0 1780 - Mechanisation Industrial production based on machines powered by water and steam 2.0 1870 - Electrification Mass-production using assembly lines 3.0 1970 - Automation Automation using electronics and computers 1980 - Globalisation 3.5 Offshoring of production to lowcost economies Today - Digitalisation 4.0 Introduction of connected devices, data analytics and artificial intelligence technologies to automate processes further

THE INCREASING CAPABILITY OF DIGITAL TECHNOLOGIES



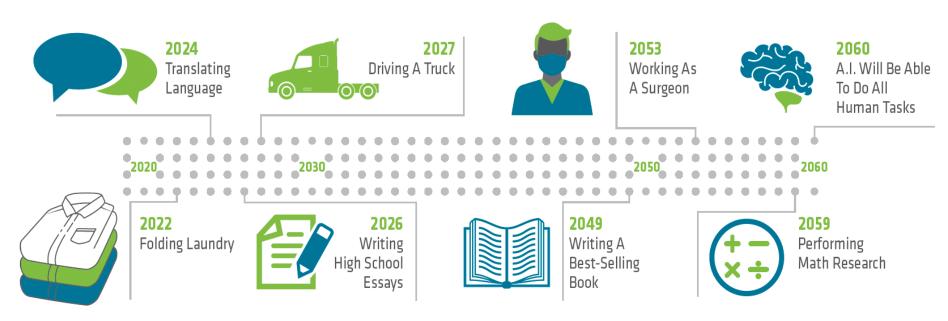
DNA SEQUENCING COSTS OVER TIME



Decline in real costs compared to expected declines based on Moore's Law. Trend line: Cost per human genome. Line width: Cost per megabase (Mb). (Data: NHGRI https://www.genome.gov/27541954/dna-sequencing-costs-data/)

When will Al outperform people?

AI WILL LIKELY OUTPERFORM HUMANS AT...



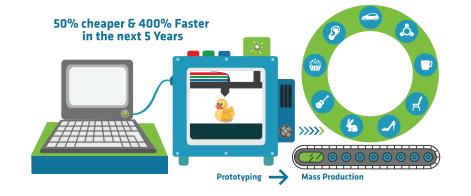
Source: 'You Will Lose Your Job to a Robot–and Sooner Than You Think'. Kevin Drum, Mother Jones, November / December Issue, 2017. (adapted from 'When will Al exceed human performance? Evidence from Al Experts', Oxford and Yale University 2017) 172



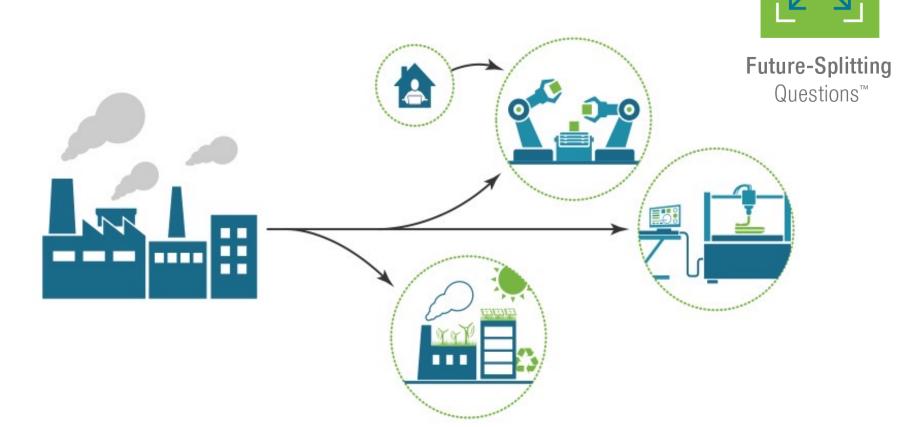
How will things be made?







Where will things be made?

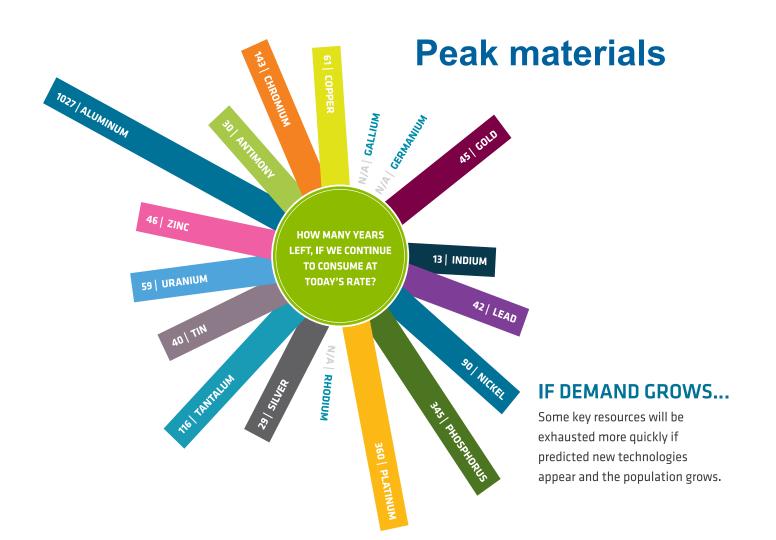


What will things be made of?

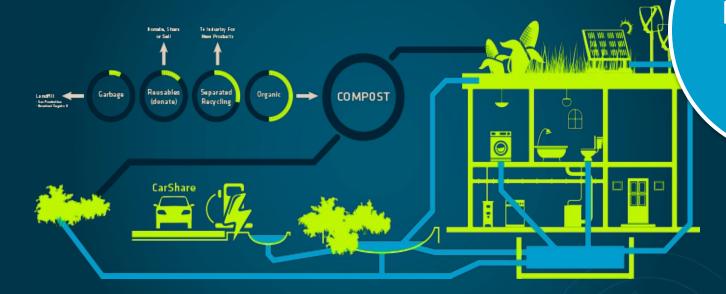


Future-Splitting
Questions[™]





Closed loop and 'Cradle to cradle'



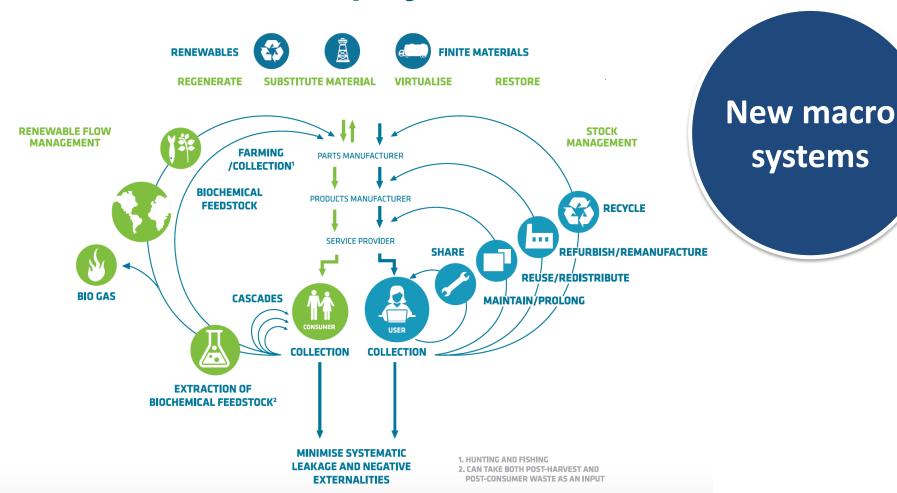
New local systems





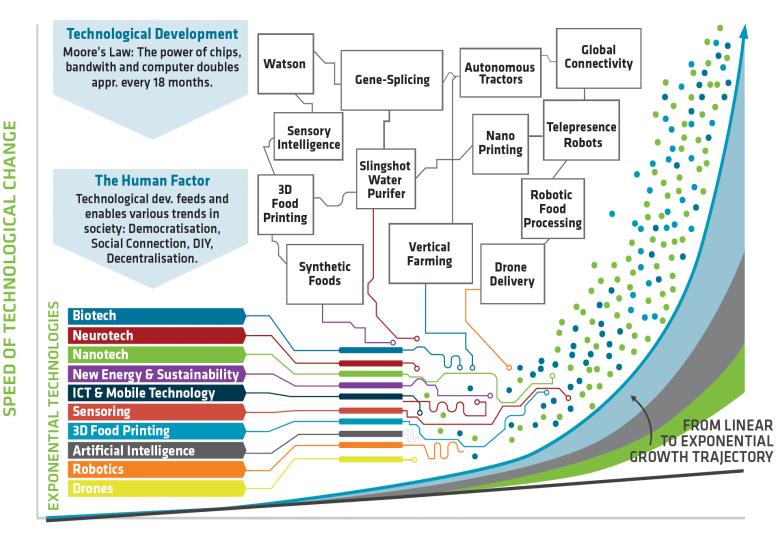
Create Future Intelligence**

Closed loop systems



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 industries and manufacturing
- Speed of change is exponential
- Digital manufacturing is delivering simultaneous productivity gains and cost reductions



Technology + Change



What does this mean for University City?





Where are tipping points?

- Societal values
- Humans living in insular bubbles
- Environmental awareness
- Workplace and workforce disruption
- Transformation of global industrial systems





















Conclusion



- The next decade will see waves of accelerating change societal and technological.
- Humans are now an urban dwelling species urbanization will accelerate – we are well past the critical tipping point.
- This future period will demand we 'accelerate, change or lose'.
- Planning will require creating flexible, well-informed plans which are grounded by understanding trends, but can adapt fast.

Future-Readiness

Attributes exercise – How future ready are we?

1. Evidence of strong community pride and inclusive culture

STRONG

University City Think-Tank

10 & 12 March 2022

WFAK



TOP TEN ATTRIBUTES OF SUCCESSFUL COMMUNITIES

1. Evidence of strong community pride and inclusive culture

Successful communities are often showplaces of care, attention, history and heritage. They celebrate their success and have a strong and positive local attitude and support a culture of risk taking and innovation. Diversity is celebrated and people



2. Invest in the future – built to last

Dots

Red = Strong

Green = Weak

People believe that something worth doing is worth doing right. In addition to the brick-and-mortar investments, all decisions are made with an outlook on the future. Expenditures are considered

3. Participatory approach to community decision making

Even the most powerful of opinion leaders seem to work toward building consensus. The stress is on working together toward a common goal and the focus is on positive results. People collaborate and

4. Creatively build new economic opportunities

Successful communities build on existing economic strengths in a realistic way; and explore new economic opportunities provided by the 'new economy'. They actively seek out new opportunities and

5. Support local businesses

Local loyalty is emphasized, but thriving communities know who their competitors are and position

6. Deliberate transition of power to new leaders

People under 40 regularly hold key positions in civic and business affairs. Women (and people from 'minority groups') often hold positions as elected officials, plant managers, and entrepreneurial

Strong belief in and support for education

Good schools are the norm and centers of community activity.

8. Strong presence of traditional institutions that are integral to community life

Churches, schools and service clubs are strong influences on community development and social

Willingness to seek help from the outside

People seek outside help for community needs, and many compete for government grants and contracts for economic and social programs. They seek out the best ideas and new people to help build

10. Communities are self-reliant

There is a wide-held conviction that, in the long run You Hard to De Italy communities believe their destina

Key Drivers Identification: What internal trends are happening (or are emerging) that could be game-changers for the future of University City?

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





Next Steps:

Think-Tank Session 2

Saturday, March 12

9:00am - 12:00pm

Heman Park Community Center







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

https://lab2.future-iq.com/university-citys-community-visioning-project/





Dawn BeasleyCity of University City

dbeasley@ucitymo.org





Thank you!

www.future-iq.com



www.future-iq.com