



Community 2040

How today's trends are shaping tomorrow's communities

A brief note

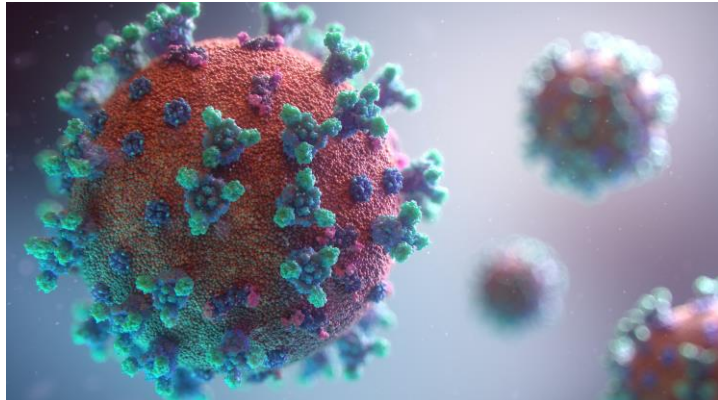
3 Quick Things About Me

- > **Strategic Foresight Manager at SGR**
Helping local governments anticipate change and adapt proactively

- > **Consulting Futurist for Start-ups, Associations, and Businesses**
Co-created long-term strategy to embrace uncertainty and emerging issues

- > **Background in Data Analytics and Leadership Development**
Experienced in critical analysis, workshop design, and facilitation

The last few years have been chaotic and uncertain.



Technological and social change
are adding to the complexity.

**GENE
EDITING**

**REMOTE
WORK**

**PUBLIC
SPACE FLIGHT**

**3D PRINTED
FOOD**

**E-
SPO**

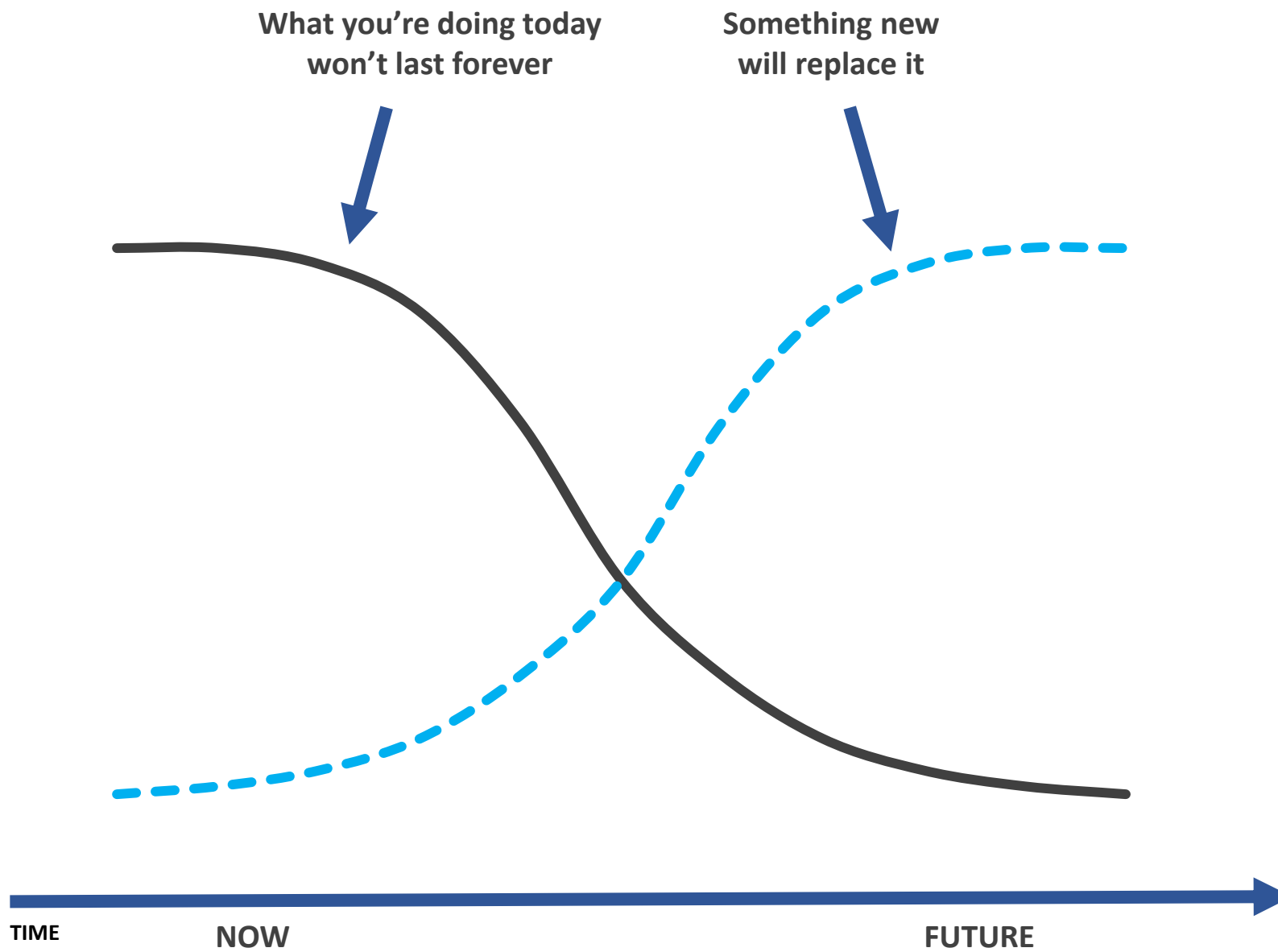
**OWNERLESS
COMPANIES**

**LANDING
ON MARS**

**DIGITAL
NOMADS**

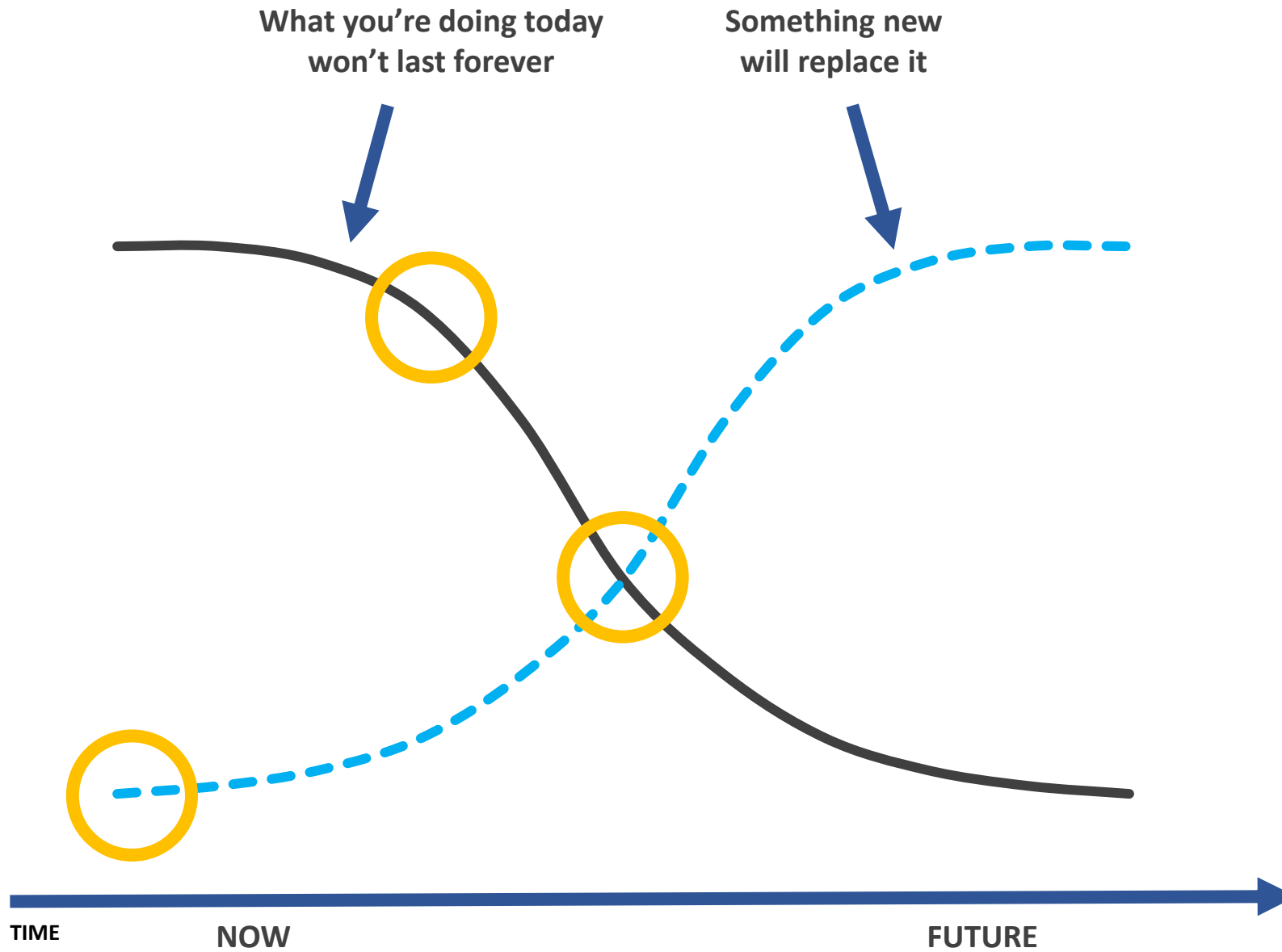
**GIG
WORKERS**

**PEAK
OIL**



3 Horizons Framework

Adapted from Andrew Curry & Anthony Hodgson "Seeing in Multiple Horizons: Connecting Futures to Vision and Strategy" 2008



3 Horizons Framework

Adapted from Andrew Curry & Anthony Hodgson "Seeing in Multiple Horizons: Connecting Futures to Vision and Strategy" 2008

Can't have our eyes closed
to the signals.



Advent of the internet

Online shopping

YouTube

Subscription-based business models

Rise of convenience culture

Pay-per-view / On-demand video

Digital transformation

Image credit: "Dish shuttering one-third of remaining Blockbuster locations, still sees value in the brand" [The Verge](#)

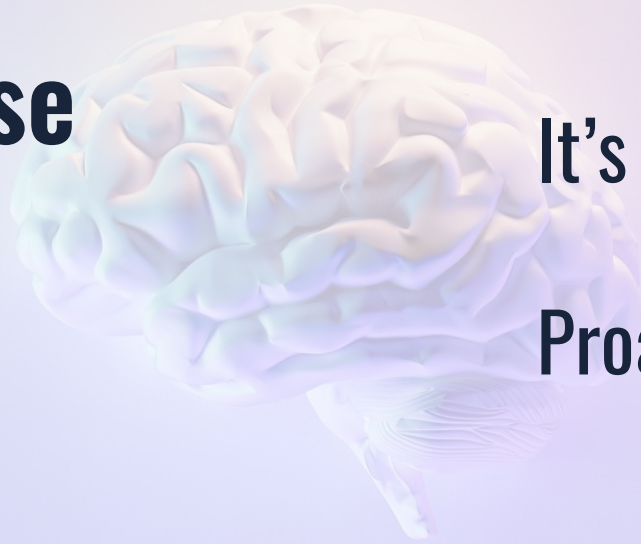


**The world is in a state
of disorder and flux**

We must lead with curiosity.

DOES
ANYTHING
EVEN MATTER
ANYMORE?

Things to consider while reviewing these trends



Change is a certainty

It's **not** “not relevant”

Proactive, not reactive

Today we'll be talking about the future of communities.

Community needs are changing. Local government will need to change the way they meet them.

1. Disruptive Trend Review
2. The Evolution of Community
3. Parting Thoughts

TRANSPORTATION

DATA



PUBLIC SPACE

DIGITAL SPACE

PUBLIC SERVICES

ENVIRONMENT

trend

1

the post-car era

transportation

Trends impacting the future

54 – 260 hours per year sitting in traffic.

30-minute average commute. 1 in 36 with an extreme commute.

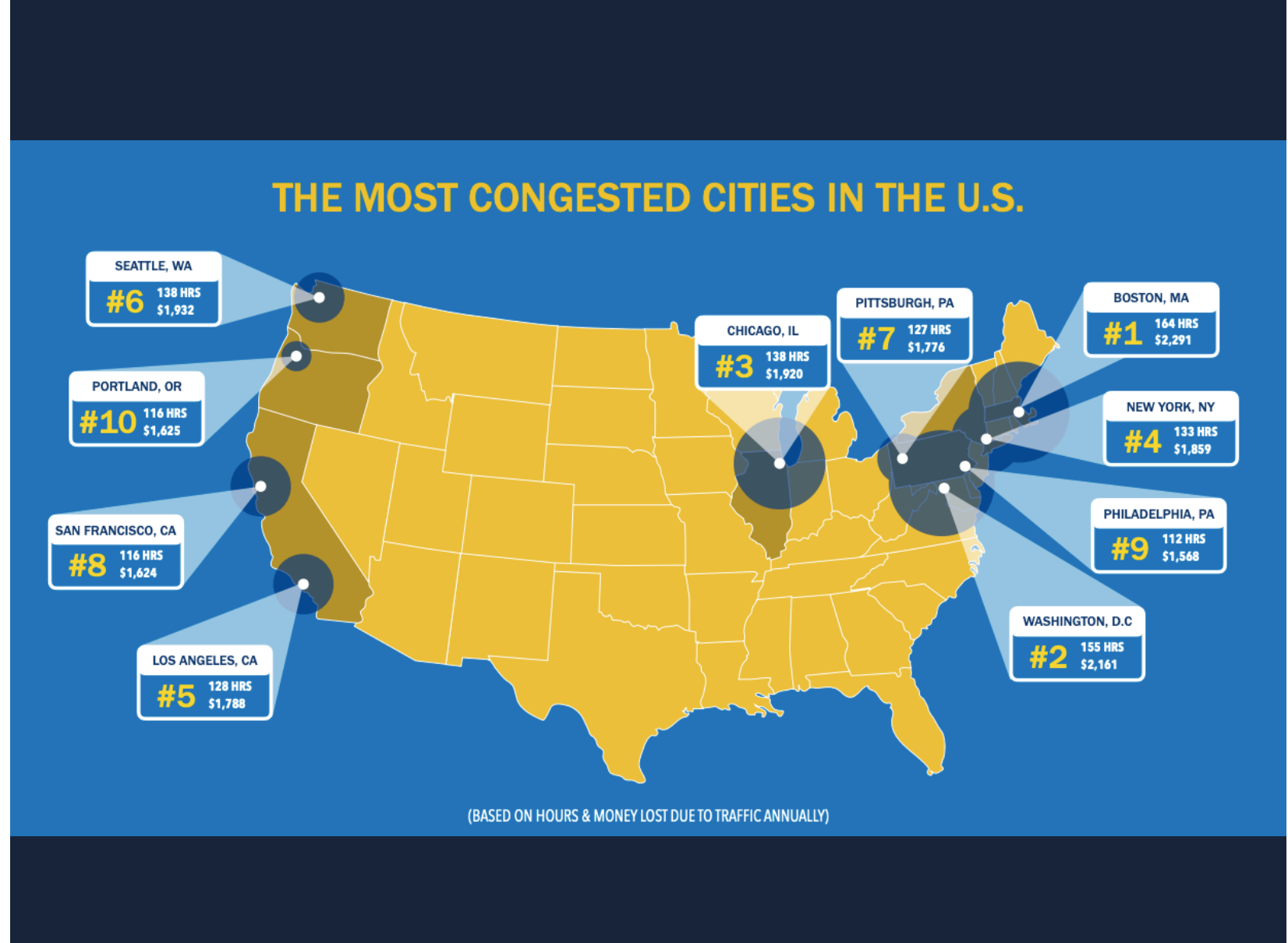


Image credit: Traffic congestion cost the US economy nearly \$87 billion in 2018
[World Economic Forum](https://www.weforum.org)

Trends impacting the future

60% of land in metro areas used for cars – 10% of all available arable land.

95% of time parked, 5% of time in use.

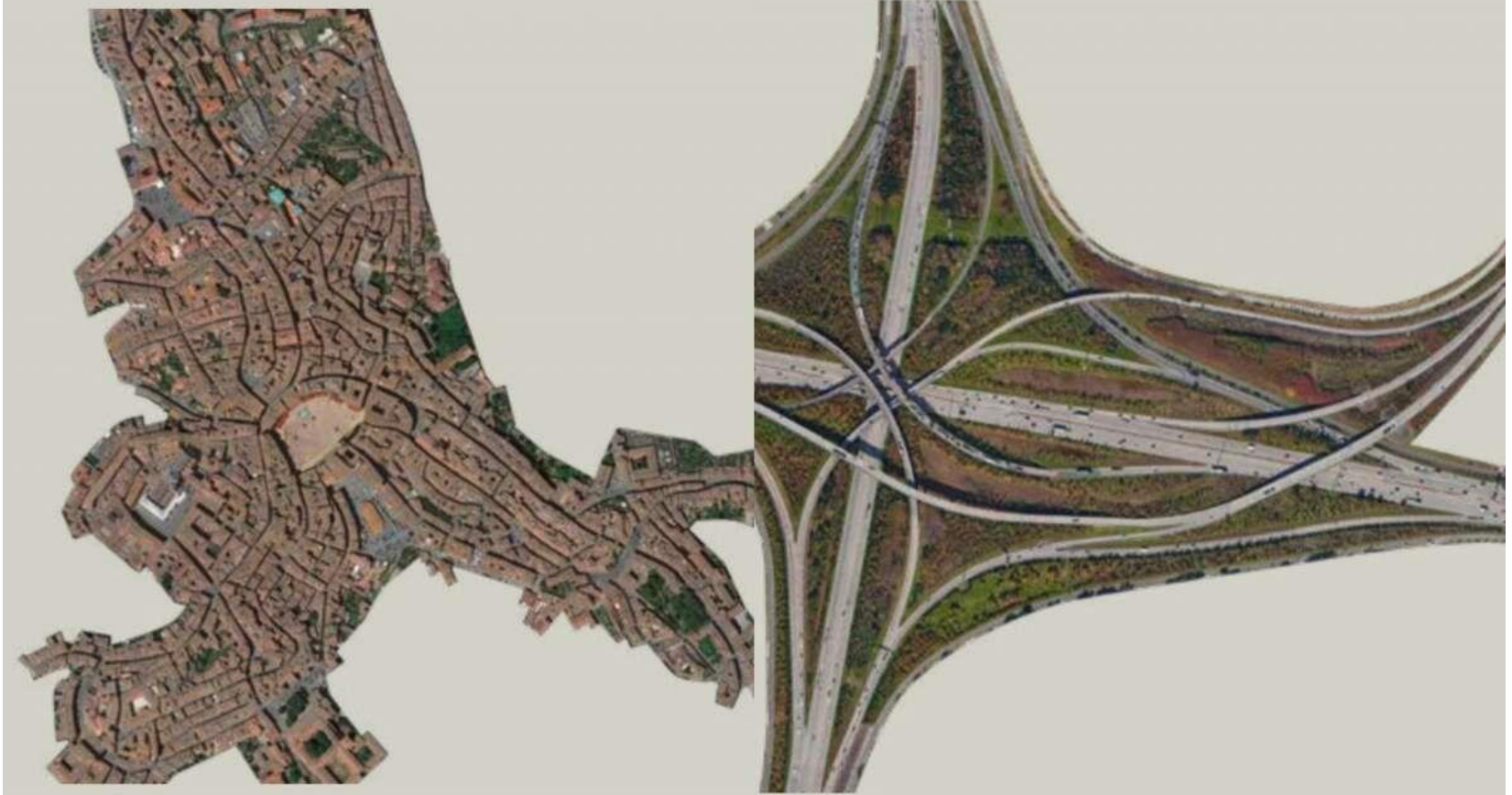


Image Credit: "30,000 people can fit in the space taken by this Houston highway intersection" [Houston Chronicle](#)

Trends impacting the future

Highways bisect communities, splitting neighborhoods and cutting residents off from amenities.

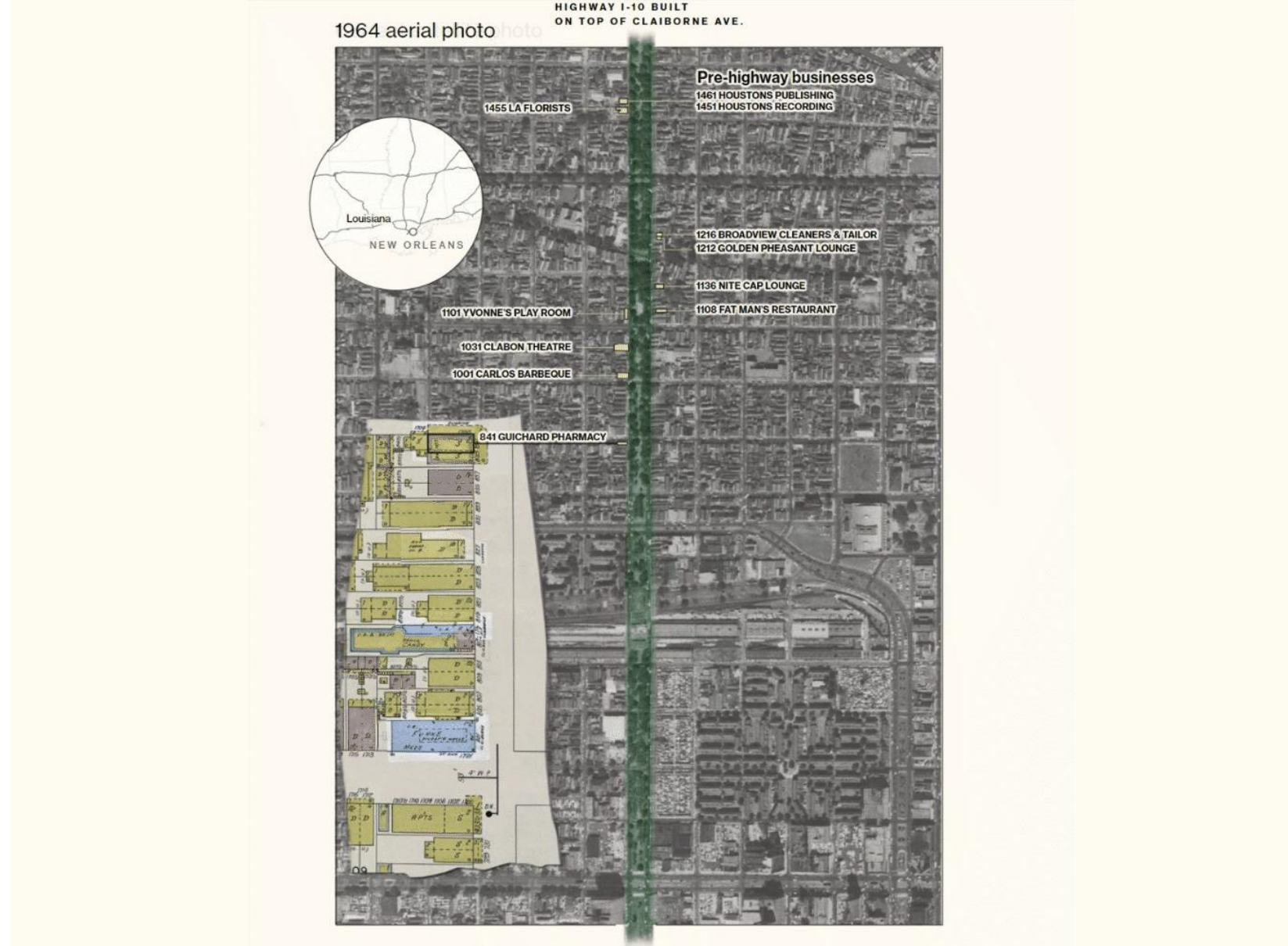


Image Credit: "What It Looks Like to Reconnect Black Communities Torn Apart by highways" [Bloomberg](#)

CityLab
Transportation

Driving Through Paris? That's Going to Get a Lot Tougher in 2024

The French capital will ban non-essential traffic passing through the city in time for the Olympics.



Traffic on the Champs Elysees. Photographer: Benjamin Girette/Bloomberg

By Feergus O'Sullivan

February 18, 2022, 3:25 AM CST Updated on February 18, 2022, 1:18 PM CST

Image Credit: "Driving Through Paris? That's Going to Get a Lot Tougher in 2024" [Bloomberg](#)

An image of the future...

Bans on non-essential through traffic in city centers.

An image of the future...

Uptick in cycling due to pandemic concerns, sustainability, wellness, and e-bikes.

Subscriber Only

Green
Hyperdrive

Bicycles Are Pushing Aside Cars on Europe's City Streets

- Green consumer trend dovetails with contagion concerns
- Pandemic has spurred 930 miles of new bike lanes in Europe



A cyclist passes a newly-marked cycle lane in Milan. *Photographer: Camilla Cerea/Bloomberg*

By Richard Weiss

July 4, 2020, 12:00 AM CDT

Image Credit: "Bicycles Are Pushing Aside Cars on Europe's City Streets" [Bloomberg](#)

An image of the future...

**Street
reclamation
movements and
pedestrian blocks
improve quality
of life and build
community.**



Image Credit: "Liveable streets: how cities are prioritizing people over parking" [The Guardian](#)

An image of the future...

Street
reclamation
movements....
including land
bridges that force
roadways
underground.

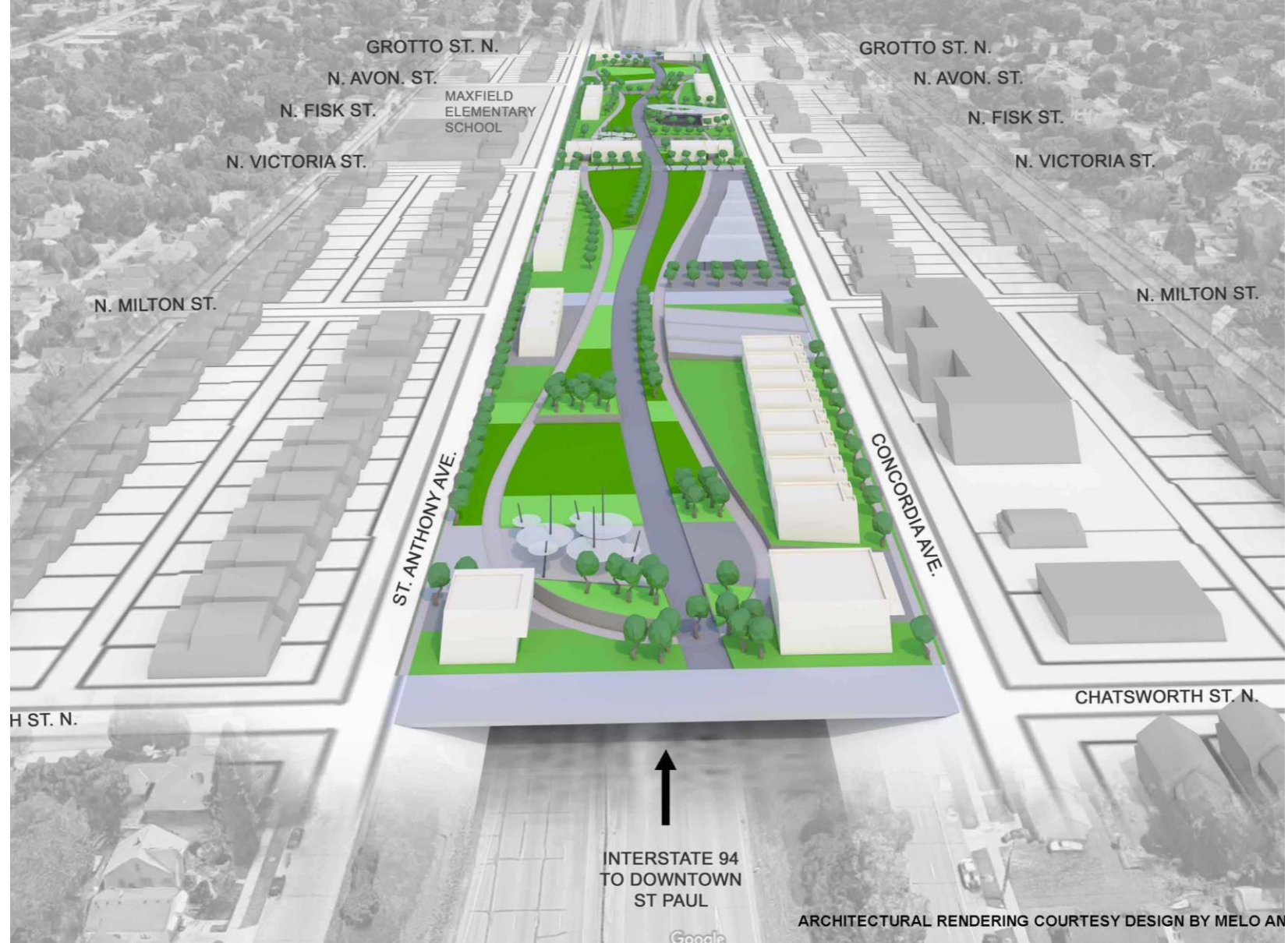


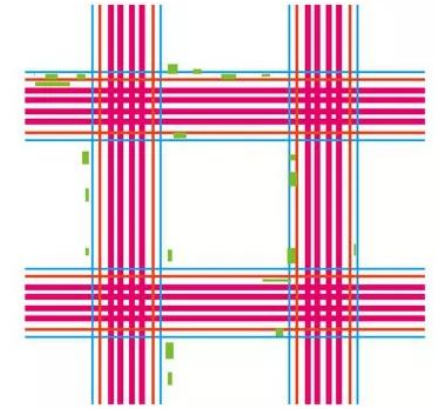
Image Credit: "Rondo advocates push back against GOP efforts to halt state funding for I-94 land bridge" [Star Tribune](#)

An image of the future...

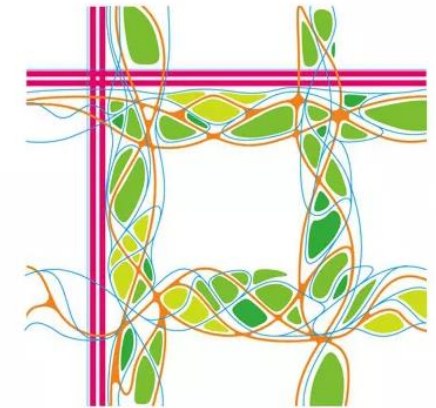
Creates conditions to entirely rethink urban mobility to better serve needs of community.



Rigid Mobility Grid



Dynamic Mobility System



-  SLOW MOBILITY: PEDESTRIAN
-  ORGANIC MOBILITY: MICRO-MOBILITY
-  FAST LINEAR MOBILITY: PUBLIC TRANSPORT, AUTOMOTIVE
-  ACTIVATED AREAS: PARKS, RECREATIONAL, RETAIL, EVENTS,...

Image Credit: "What Might Our Cities Look Like Without Cars?" [Treehugger](#)

Car-centric cities are no longer fit for purpose.

Design citizen-centric cities.

trend

2

rethinking public spaces

public space

Trends impacting the future

Anxiety, depression, suicide, feelings of helplessness, and narcissism have increased sharply.

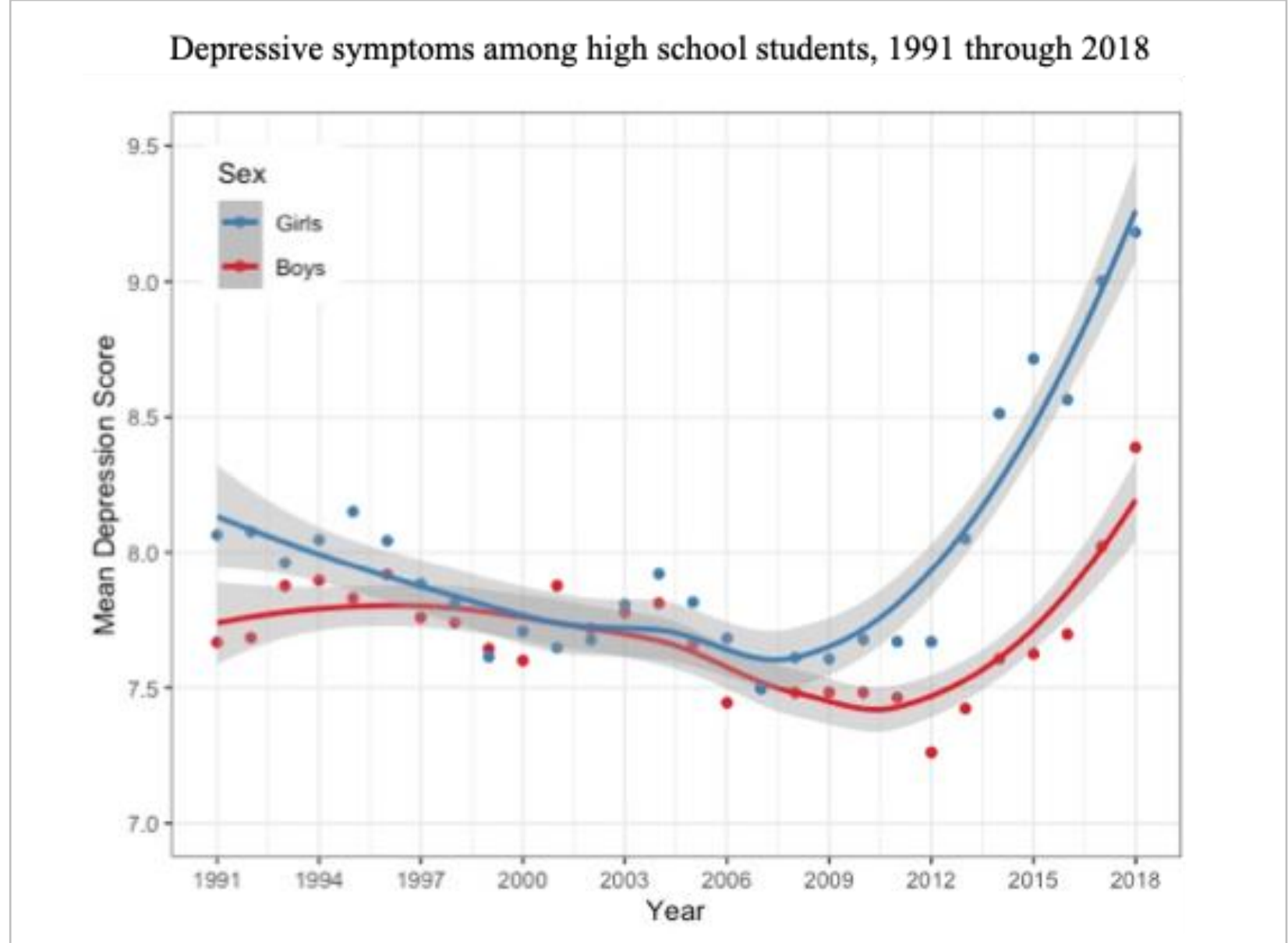


Image Credit: "Depression During Development" [Public Health Post](#)

Trends impacting the future

Social isolation is at an all-time high.

Alzheimer's Disease and Healthy Aging

[Alzheimer's Disease and Healthy Aging Program Home](#) > [Communications Center](#) > [Web Features](#)



[Alzheimer's Disease and Healthy Aging Program Home](#)

[About Us](#) +

[COVID-19 Recommendations for Older Adults](#) +

[National Healthy Brain Initiative \(NHBI\)](#) +

[Healthy Brain Resource Center \(HBRC\)](#)

[Building Our Largest Dementia \(OLD\) Infrastructure](#) +

[National Healthy Brain Initiative \(NHBI\) Map Series](#) +

[Giving](#) +

[Social Determinants of Health](#) +

[Data and Statistics](#) +

[Communications Center](#) -

[Podcasts and Videos](#)

Loneliness and Social Isolation Linked to Serious Health Conditions

[Español \(Spanish\)](#)

Loneliness and social isolation in older adults are serious public health risks affecting a significant number of people in the United States and putting them at risk for dementia and other serious medical conditions.

A [report](#) from the National Academies of Sciences, Engineering, and Medicine (NASEM) points out that more than one-third of adults aged 45 and older feel lonely, and nearly one-fourth of adults aged 65 and older are considered to be socially isolated.¹ Older adults are at increased risk for loneliness and social isolation because they are more likely to face factors such as living alone, the loss of family or friends, chronic illness, and hearing loss.

Loneliness is the feeling of being alone, regardless of the amount of social contact. Social isolation is a lack of social connections. Social isolation can lead to loneliness in some people, while others can feel lonely without being socially isolated.

Health Risks of Loneliness

Although it's hard to measure social isolation and loneliness precisely, there is strong evidence that many adults aged 50 and older are socially isolated or lonely in ways that put their health at risk. Recent studies found that:

- Social isolation significantly increased a person's risk of premature death from all causes, a risk that may rival those of smoking, obesity, and physical inactivity.¹



Social isolation was associated with about a 50% increased risk of dementia and other serious medical conditions.

Image Credit: "Loneliness and Social Isolation Linked to Serious health Conditions" [CDC](#)

Trends impacting the future

Calls to provide
more equitable
services to
marginalized
communities.



Trends impacting the future

People are overscheduled, overworked, and living through a period of immense turmoil and uncertainty.



An image of the future...

Affinity spaces provide pockets of community based on shared interests.



Image Credit: "Utilizing the Space Beneath Bridges" [streets.mn](https://www.streets.mn)

**An image of the
future...**

**Inclusive spaces
invite
marginalized
populations into
the community.**



Image Credit: "Teen Girls Need Better Public Spaces to Hang Out" [Bloomberg](#)

An image of the future...

Design of more open-ended spaces that promote exploration, experimentation, and learning.



Image Credit: "Liveable streets: how cities are prioritizing people over parking" [The Guardian](#)

An image of the future...

“Restorative urbanism” seeks to provide more holistic urban living - places that ease stress and anxiety and isolation.



Image Credit: “An Anxious Age Demands More ‘Restorative Cities’” [Bloomberg](#)

An image of the future...

The “one-minute city” concept empowers citizens to co-design the spaces in immediate proximity.



Image credit: “Make Way for the ‘One-Minute City.’” [Bloomberg](#)

How we move between the spaces we inhabit defines our behaviors and our communities.

**Design health and well-being
into your public spaces.**

trend

3

smart cities

data

Trends impacting the future

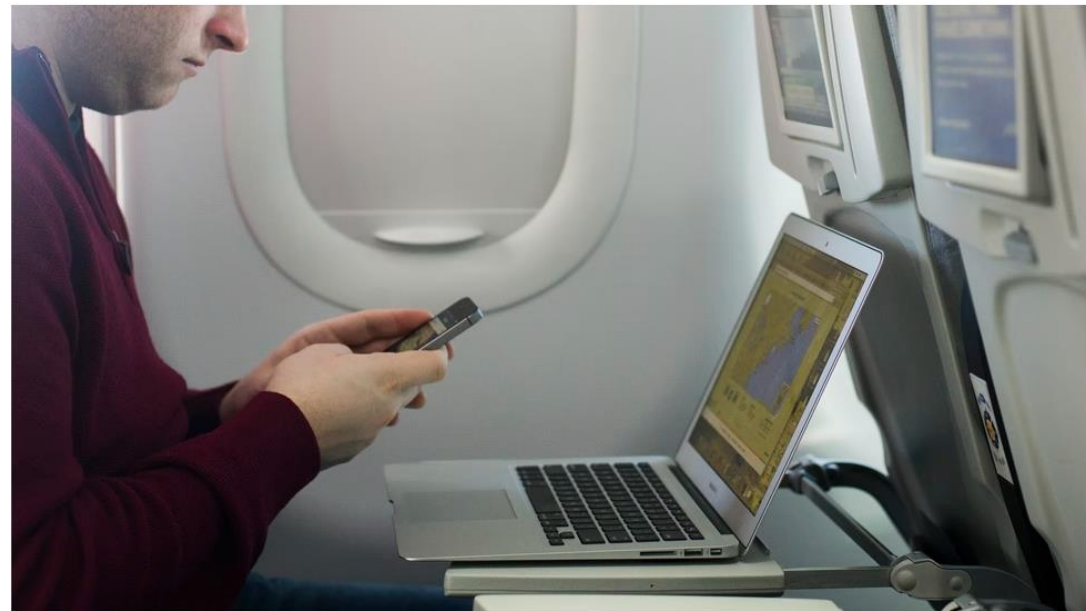
People are time impoverished – they are busier than ever, with a growing list of demands on their time.

BUSINESS

‘Ugh, I’m So Busy’: A Status Symbol for Our Time

Once, long ago, being richer meant working less.

By Joe Pinsker



Lucas Jackson / Reuters

MARCH 1, 2017

SHARE ▼

Image Credit: "Ugh, I'm So Busy": A Status Symbol for Our Time" [The Atlantic](#)

Trends impacting the future

Simultaneously,
they have grown
accustomed to
24/7, instant, and
easy-to-use
services.



Trends impacting the future

More than 10
billion active IoT
devices.

Projected to pass
25 billion by 2030.



Image credit: "Here's why police in Dallas-Fort Worth are partnering with doorbell-camera company Ring, despite privacy concerns" [The Dallas Morning News](#)

Trends impacting the future

Local governments around the nation are struggling with labor shortages...

A problem that is only likely to get worse in the future, as the US population is no longer growing.

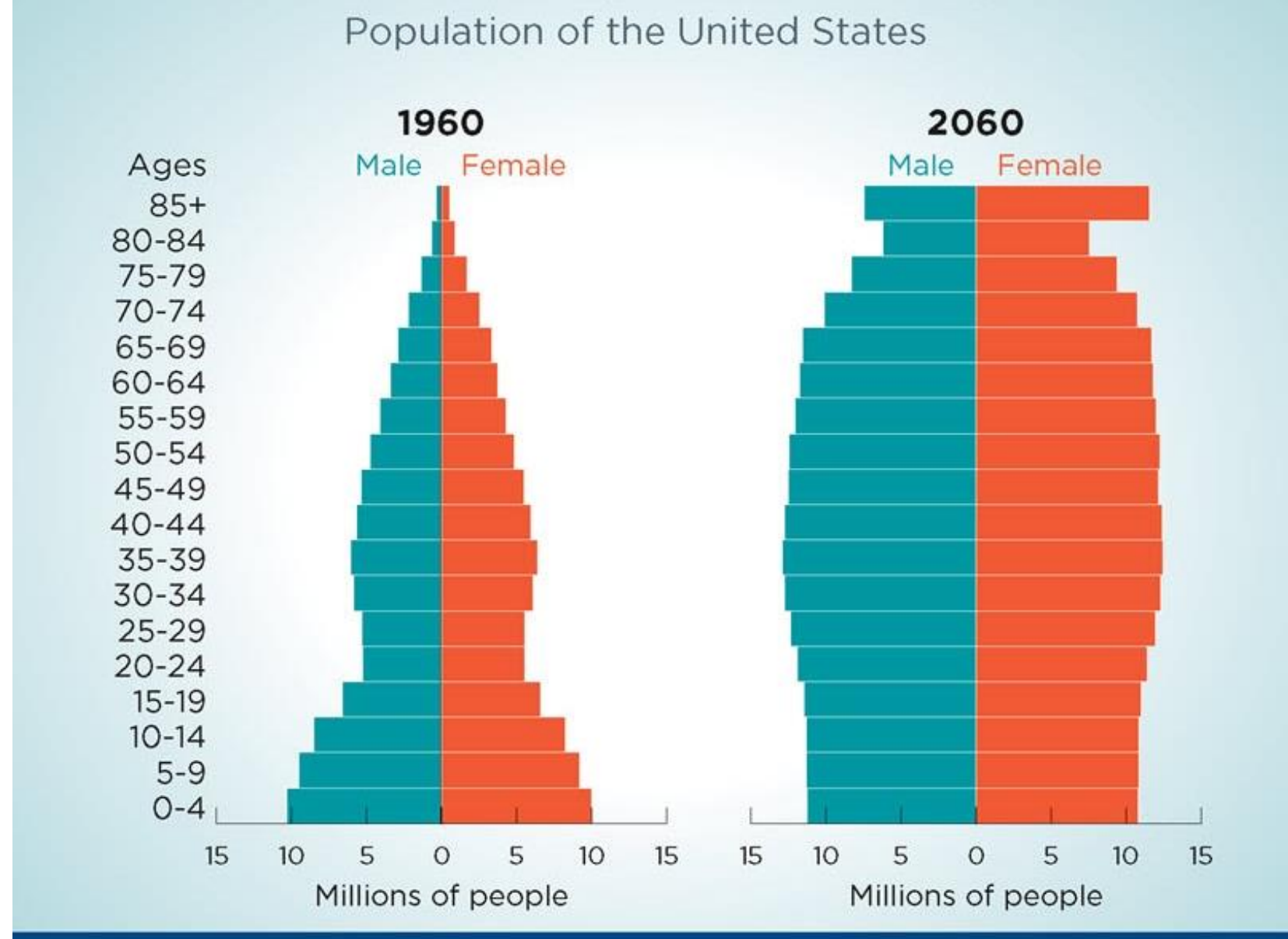


Image Credit: "From Pyramid to Pillar: A Century of Change, Population of the U.S." [US Census Bureau](#)

Trends impacting the future

Active projects in
178 cities
globally.

Capture data
from vast array of
sources.

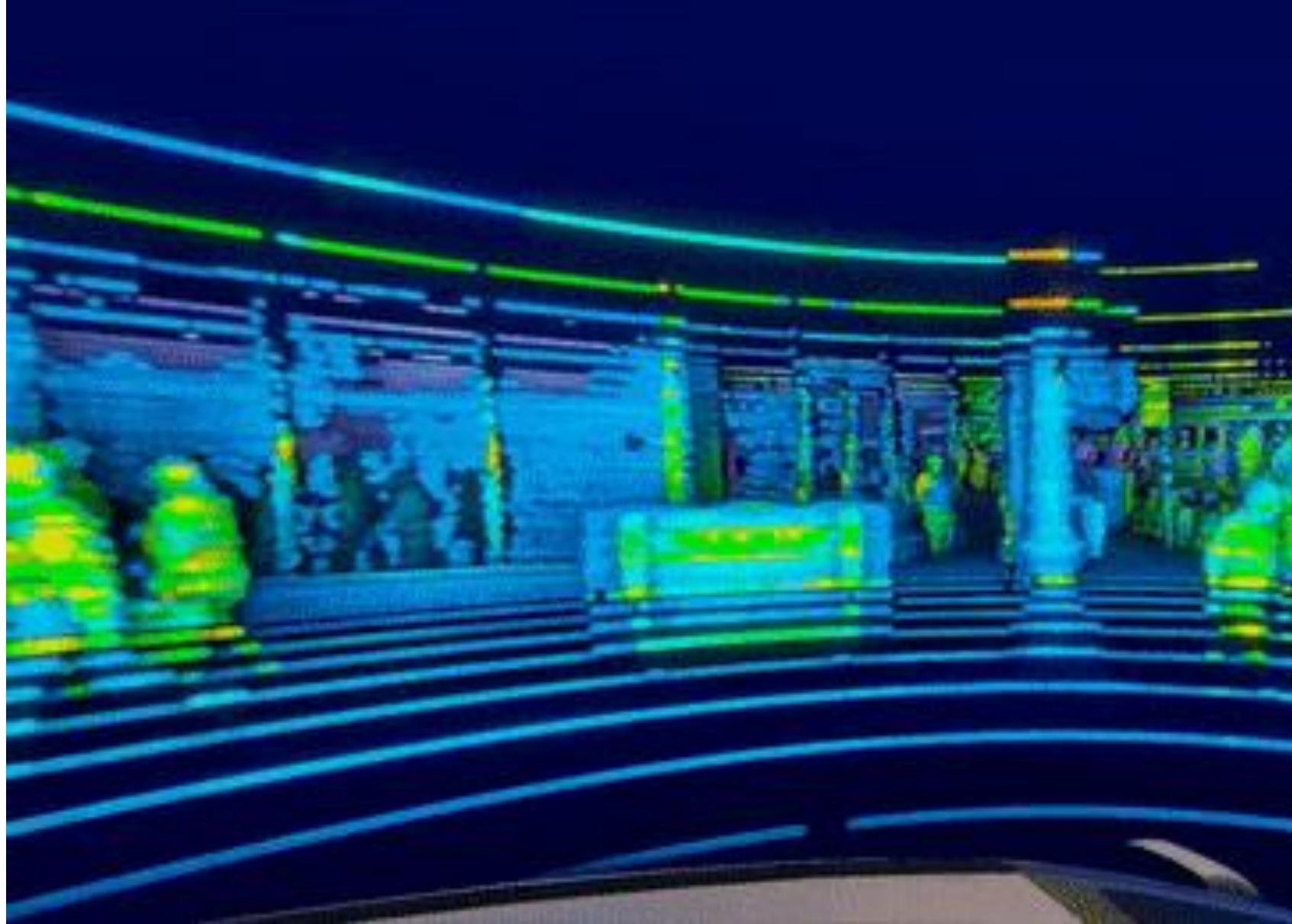


Image Credit: "Lidar Technology Safeguards Privacy in Smart City Applications" [Velodyne Lidar](#)

**An image of the
future...**

**Automated
cleaning keeps
facilities and
roadways
presentable and
healthy.**



Image credit: "Robots Cleaning The World" [mekaworks](#)

An image of the future...

Inspection drones can automate everything from building inspections to wildlife surveillance.



Image credit: "Sharks and Drones: How SharkEye Uses Drones to Keep People Safe from Great Whites" [UAV Coach](#)

An image of the future...

Delivery drones bring the city to your door.



Image Credit: "Alphabet's nascent drone delivery service is booming" [The Verge](#)

An image of the future...

Patrolling bots keep parks and community spaces safe, while EMS drones deliver life-saving medical interventions.



Image credit: "A RoboCop, a park and a fight: How expectations about robots are clashing with reality" [NBC News](#)

An image of the future...

Robots are even taking on caretaking....



Image credit: "Robots rise to meet the challenge of caring for old people" [nature](#)

Trends impacting the future

Tax, police, utility, and transportation departments as smart city and data processing hubs.



Image Credit: "AI powered face recognition for smart cities and smart retail" [Deep Vision via YouTube](#)

An image of the future...

Allows for the creation of sophisticated digital twins... of cities and citizens.



Image Credit: "Two-i Smart-City" [Two-i](#)

An image of the future...

Data can be run through policy-engines that simulate policy changes and iterate to find better outcomes.

Learning and documenting

We've also been engaging with NSW Government agencies to demonstrate Rules as Code and build a pipeline of projects. We brought our users and stakeholders together in a recent workshop seeking feedback on our proof of concept. The workshop was the first in a series of activities aimed at continually testing and iterating the proof of concept with users.

What does our proof of concept look like now?

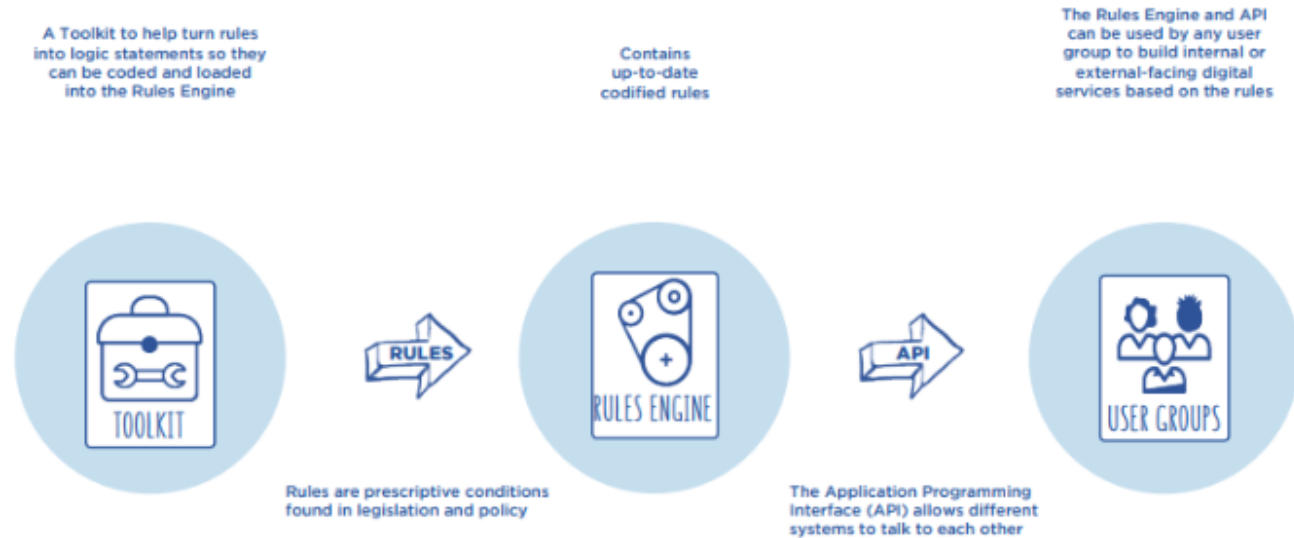


Image Credit: "Rules as Code – Test, learn, Repeat" [NSW Government](#)

An image of the future...

Growing citizen science movements use available technology and citizen behavior to provide large datasets for research.



Image Credit: "Join the Community Beach Monitoring by taking a pic for CoastSnap" [Visit Bournerouth](#)

An image of the future...

Smart Citizen kits go beyond participatory data collection, to analysis and action.



Image Credit: "Smart Citizen Kit" [fablabs](#)

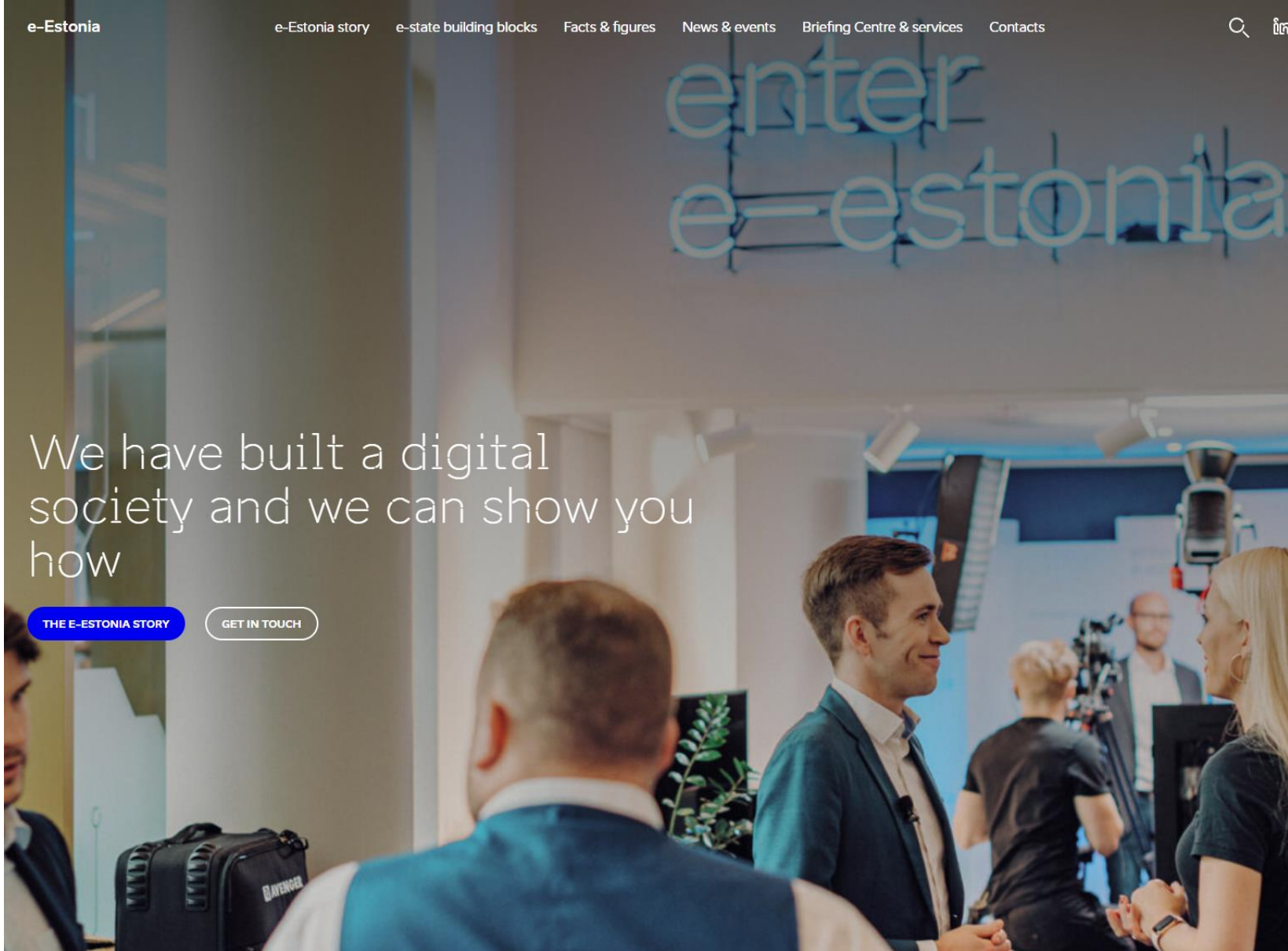


Image Credit: "e-Estonia" [Estonia](#)

An image of the future...

Digital services and AI systems create accessible systems and automatic life event tracking.

An image of the future...

At the far end, fully autonomous cities reimagine what a city can do and what it can be.



Image Credit: [Freethink](#)

Data-driven technology will be key in proactively meeting community needs.

You don't have to go it alone.

**All stakeholders can play a part
in collection data.**

trend

4

expanding reality

digital space

Trends impacting the future

Virtual reality is
gaining
momentum as a
form of media.



Trends impacting the future

**Serious
investment in AR
– to be
commonplace by
2030.**



Trends impacting the future

Represents a new avenue for public services and community engagement.



An image of the future...

Navigating a city becomes a personalized, AI-enabled experience.



Image Credit: "The XR and You Series: AR for Navigation" [Stambol](#)

An image of the future...

Can build connections to the past and illuminate the unique culture and history of a community.



Image credit: "The Shaw and 54th Regiment Memorial Augmented Reality Experience" [Hoverlay via YouTube](#)

An image of the future...

Can pull people outdoors to encourage more active lifestyles with adventure games.



Image credit: "RideOn Intro" [RideOn via YouTube](#)

An image of the future...

And into public spaces with games that take people through city centers.



Image credit: "Watch Dogs - Cash Run Tips" [Prima Games](#), "Pokemon Go's new AR+ Mode for iOS" [TechCrunch](#)

**An image of the
future...**

**Outdoor museum
of AR sculptures
makes art
available to
anyone in the city
– very large
audiences.**



Image credit: "Watch London's Cool, Quirky Augmented Reality Art Exhibit at Home" [SingularityHub](#)

Digital experiences can connect communities in new ways – especially the next generation of digital natives.

trend

5

going green

environment

Trends impacting the future

Billion-dollar weather events have increased from an average of 2.9 per year in the US in the 1980s to 17.2 per year in the last 5 years.

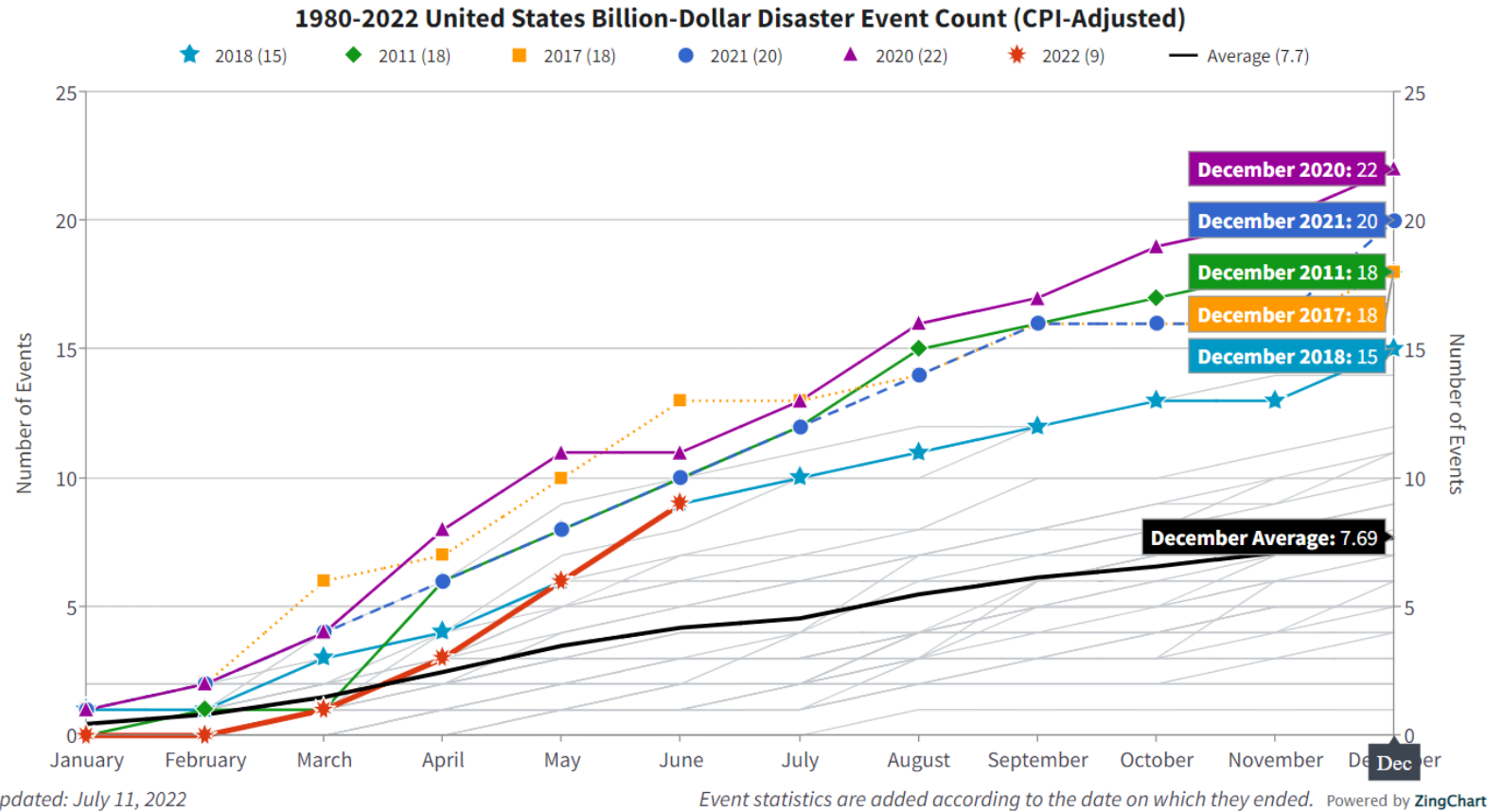


Image credit: [National Centers for Environmental Information](#)

Trends impacting the future

Emerging environmental threats – sea level rise, land erosion, food instability, water scarcity, climate refugees.



Revenue Vulnerability & Dependence

from Headwaters Economics

16%

of Boston's city revenues are at risk from sea level rise

(Shi and Varuzzo 2020)

Case study: Massachusetts

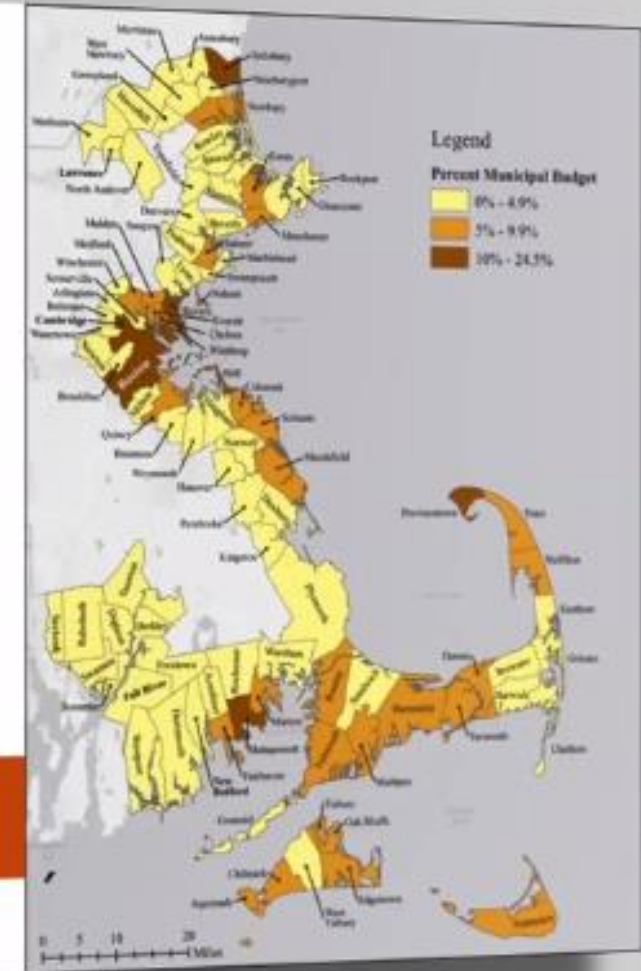


Image credit: "Revenue Vulnerability & Dependence" [Headwaters Economics](#)

Trends impacting the future

By 2050, loss of natural processes could cost upwards of \$83 billion annually in the US and \$479 billion globally.



Trends impacting the future

Cities, states, and nations are setting aside billions of dollars to prepare for climate resilience.



Trends impacting the future

Incorporate nature to foster climate resilience.

Using nature in infrastructure projects could save USD 248 billion per year—study

New UN-backed Resource Centre launches ahead of COP 26 to build business case for natural solutions to infrastructure challenges.

October 21, 2021

Governments and investors could save USD 248 billion a year, protect the environment, and benefit local communities by replacing or complementing newly built infrastructure with plants, trees, and other natural alternatives, according to a first-of-its-kind study from the International Institute for Sustainable Development (IISD).

Image credit: "Using nature in infrastructure projects could save USD 248 billion per year - study?" [IISD](#)

An image of the future...

Leveraging natural processes to improve quality of life:

Plants filter air pollution from roadways.

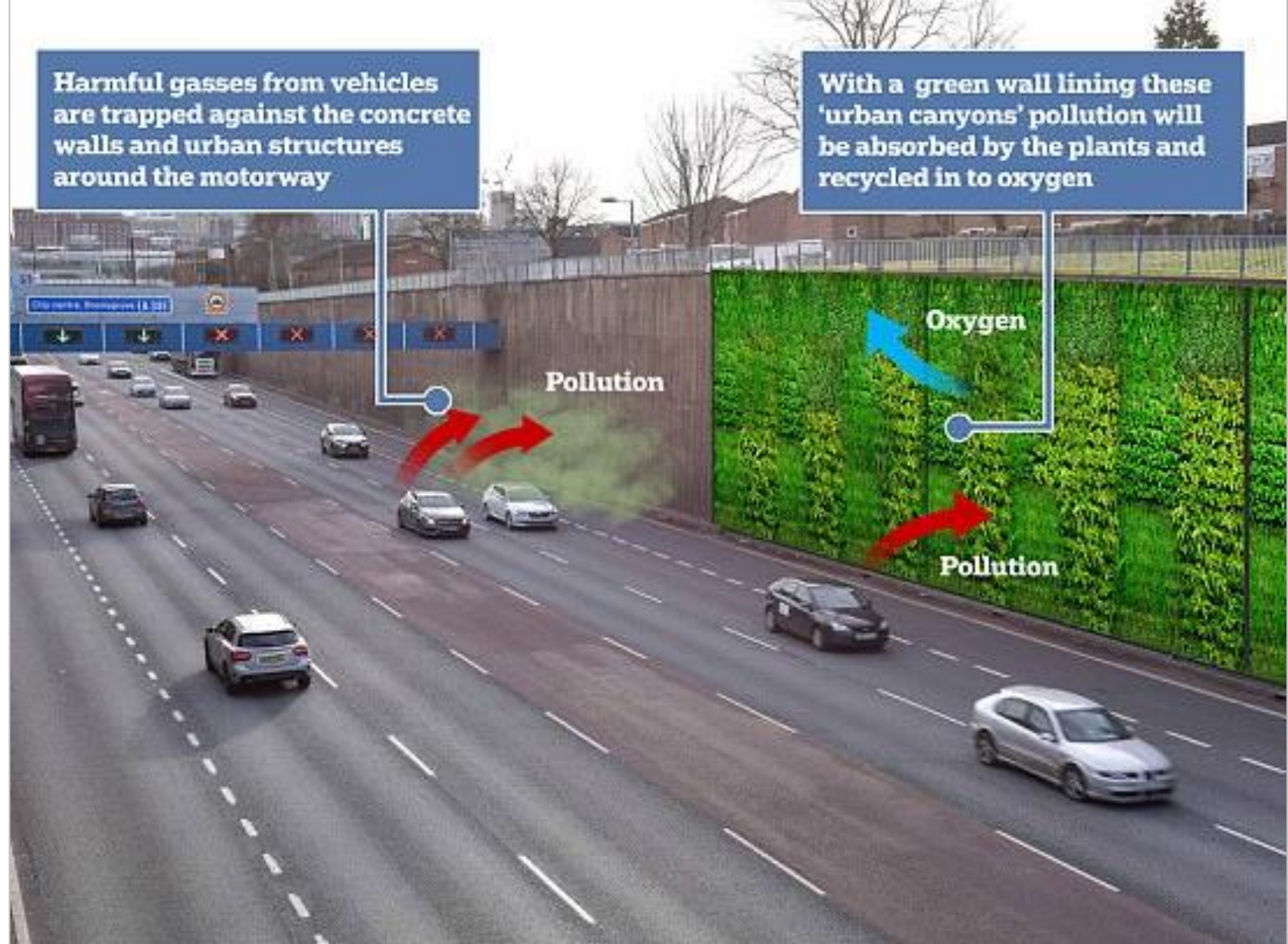


Image Credit: "Living green walls' lined with trees and bushes could help reduce toxic pollution by absorbing carbon dioxide on major commuter routes" [Daily Mail](#)

An image of the future...

Leveraging natural processes to improve quality of life:

Plants filter air pollution from public spaces.



Image Credit: "With AirBubble we bring to life the world's first biotechnological playground to integrate air-purifying micro-algae." [Ecologic Studio](#)

An image of the future...

Growing interest in more resilient and local urban farms, including everything from community gardens to commercial food production.



Image Credit: "Floating Farm in Rotterdam is now home to 32 cows" [DeZeeen](#)

An image of the future...

Circular city initiatives aim to reduce waste, improve sustainability, and positively impact the bottom line, while making for stronger, healthier, communities.



Image credit: "Circular cooking in Kenya: poop becomes clean fuel" [Government of the Netherlands](#)

An image of the future...

Rewilding cities yields overall benefits in climate resilience, biodiversity, and lowered maintenance costs.



Image credit: "Cities' answer to Sprawl? Go Wild." [Bloomberg](#)

An image of the future...

Design of vertical gardens and sky gardens that “rewild” urban areas.



**Be resilient in environmental
disruption by integrating
nature.**

trend

6

citizen empowerment

citizen engagement

Trends impacting the future

Citizens feel increasingly disconnected. Many do not know what local governments do or how to engage.

OPINION

Citizens want authentic engagement opportunities, not just notifications

With modern solutions and professional support, digital engagement can become an everyday event for any community.

Published March 7, 2022

By Andrea Facini



Kirill Smyslov via Getty Images

Andrea Facini is the President of ACTIVE Network, a company providing software and service solutions.

Image Credit: "Citizens want authentic engagement opportunities, not just notifications" [Smart Cities Dive](#)

Trends impacting the future

Facing large, systemic problems, people often feel powerless and lose their sense of agency.

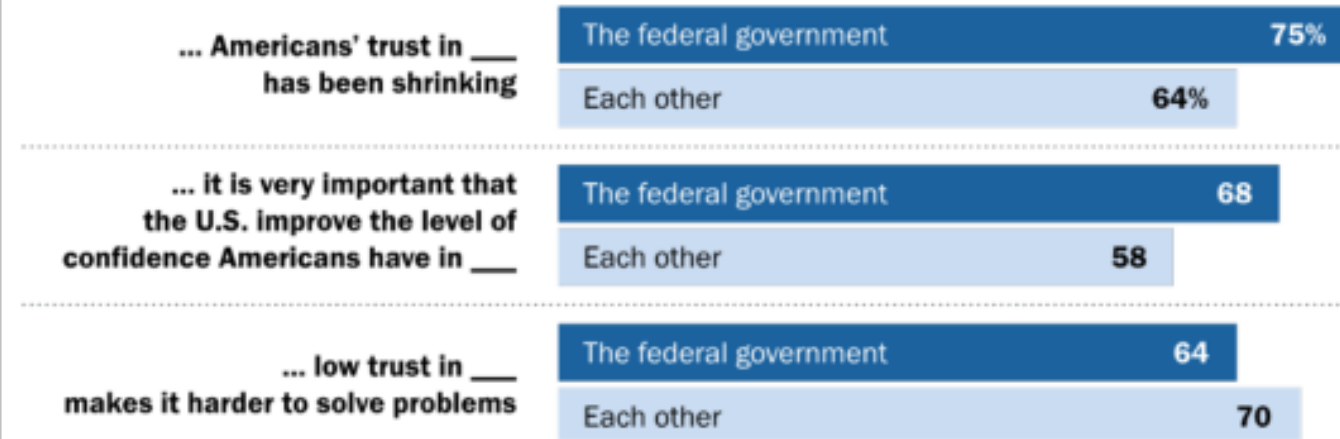


Trends impacting the future

Trust in traditional establishments is failing across the nation. Local government is the last bastion of public trust.

Americans think their distrust of the federal government and each other is a problem that gets in the way of solving issues

% of U.S. adults who believe ...



Source: Survey conducted Nov. 27-Dec. 10, 2018.

"Trust and Distrust in America"

PEW RESEARCH CENTER

Image Credit: "Trust and Distrust in America" [PEW](#)

An image of the future...

Leveraging design research techniques can improve the overall citizen experience.



An image of the future...

Advanced technologies make it easier than ever to analyze and interpret citizen feedback.

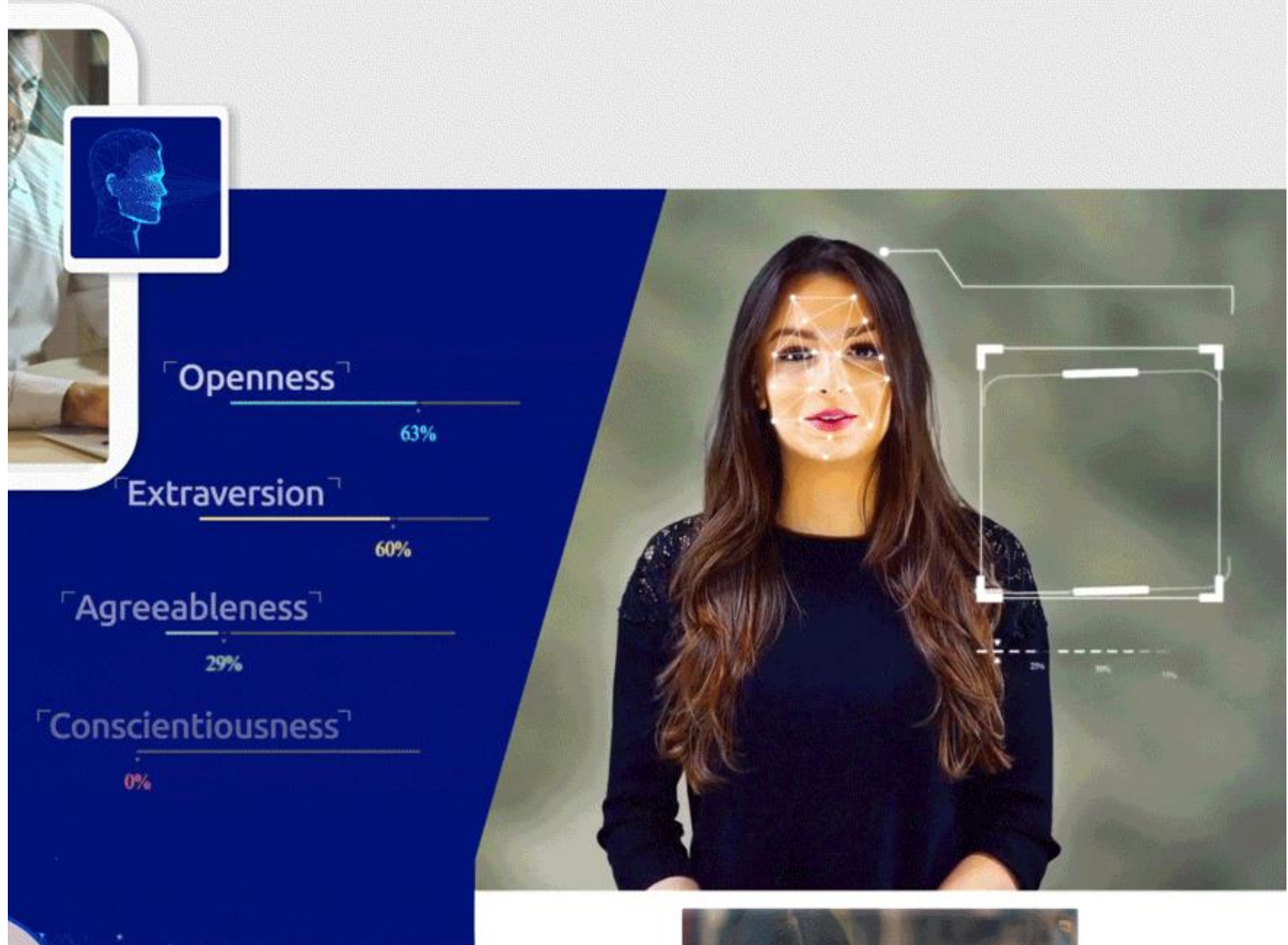


Image credit: "AI hiring technology made for everyone." [Elevatus](#)

An image of the future...

Governments are embracing participatory governance models – including planning and budgeting.

What is a participatory budget?

Let's start with a definition of the term. A participatory budget is an **innovative policy-making tool** that directly **involves community members in the allocation of public funds**. Local governments ask community members and relevant stakeholders to help them define which social domains, problems or opportunities should receive a share of the city budget, which share of the budget that should be, and which issues or initiatives have the highest urgency. By organizing a participatory budget, cities can tap directly into the collective intelligence of their communities and align the allocation of public money with real-life community needs.

Allowing residents and stakeholders to weigh in on the allocation of public funds requires a significant degree of engagement. That's why participatory budgeting is one of the highest-ranking engagement methods on **the participation ladder**. While it requires careful planning and preparation, it also bolsters the legitimacy of your decision-making and the sense of trust community members foster towards their elected representatives.



Image Credit: "8 steps towards effective participatory budgeting" [citizenlab](#)

Trends impacting the future

A 55-year study found that proportional representation resulted in 7.5% higher voter turnout.

***“Canada was the top ranked OECD country on the UN Human Development index. And in the last 20 years, we’ve been overtaken by eight OECD countries that all use proportional voting”
-Tony Hodgson, President,
Vote PR BC***

Quote Source: [Health Sciences Association](#)

An image of the future...

The “one-minute city” concept empowers citizens to co-design the spaces in immediate proximity.

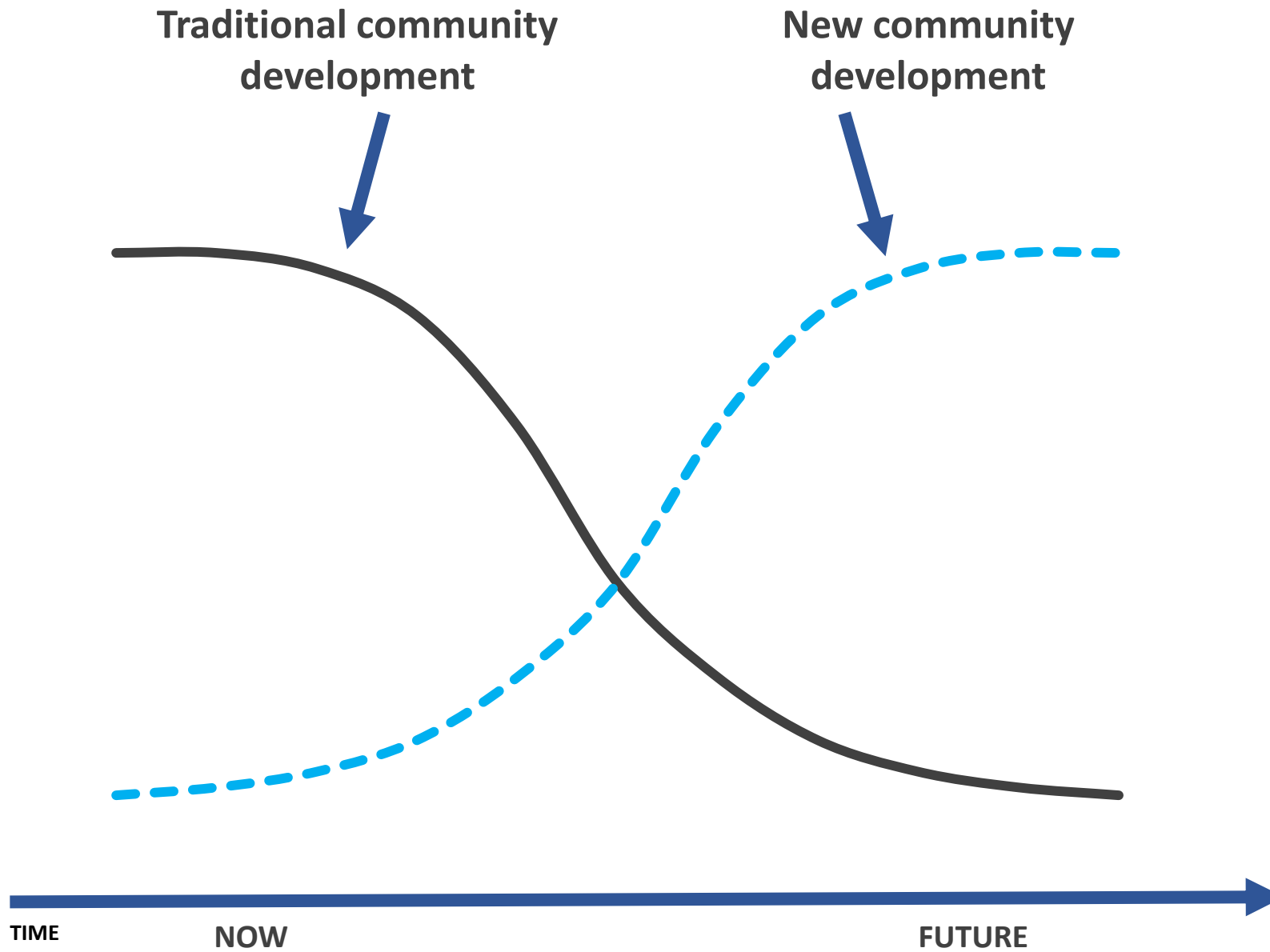


Image credit: "Make Way for the 'One-Minute City,'" [Bloomberg](#)

Citizens hold the keys to thriving community more than ever before.

2

evolution of community



3 Horizons Framework

Adapted from Andrew Curry & Anthony Hodgson "Seeing in Multiple Horizons: Connecting Futures to Vision and Strategy" 2008

Declining fit

Car space

Cookie-cutter
design

Technology for
efficiency

Human first

Citizen
engagement

Signals of change

Community
space

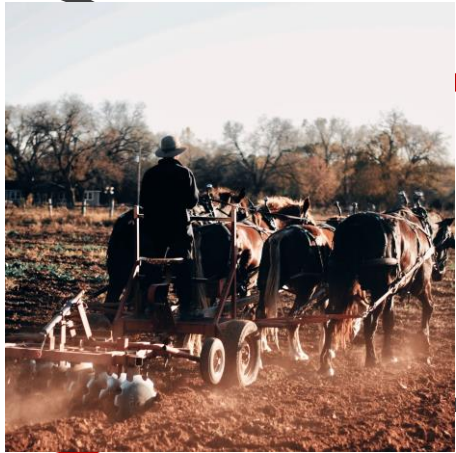
Intentional
design

Technology for
connection

Nature first

Citizen
empowerment

Agricultural Age



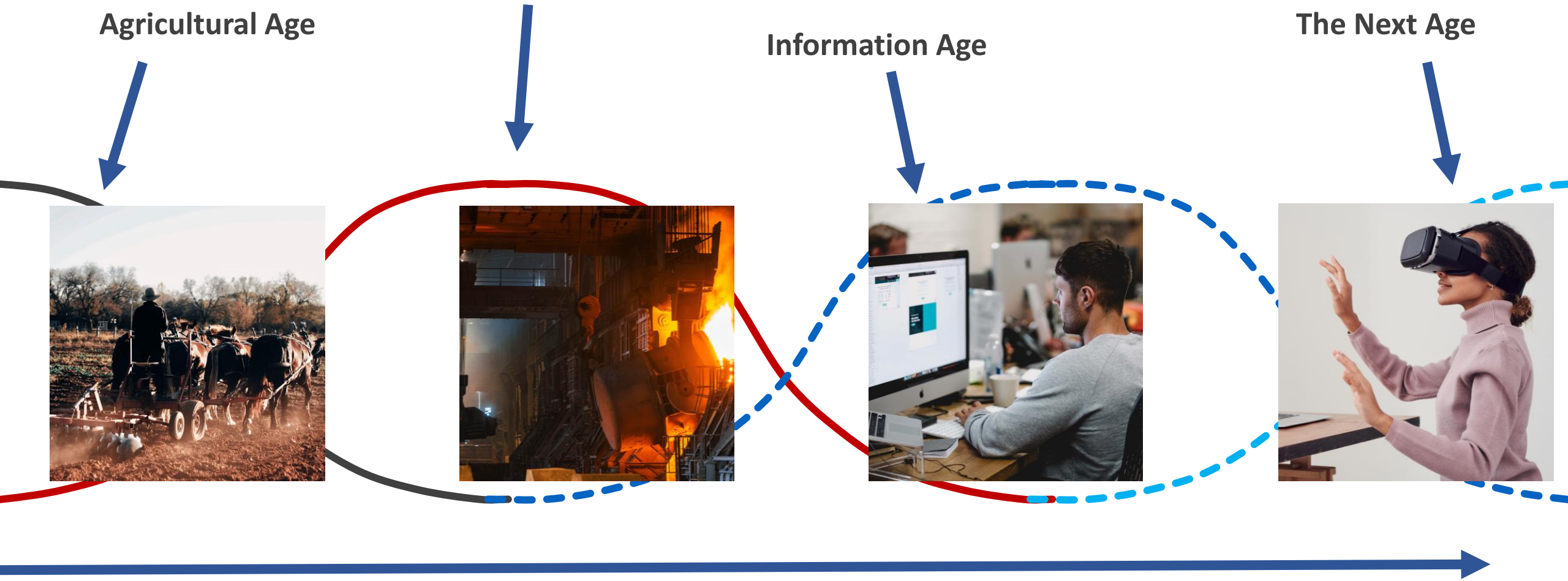
Industrial Age

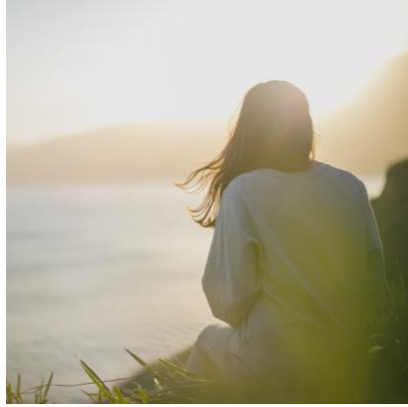
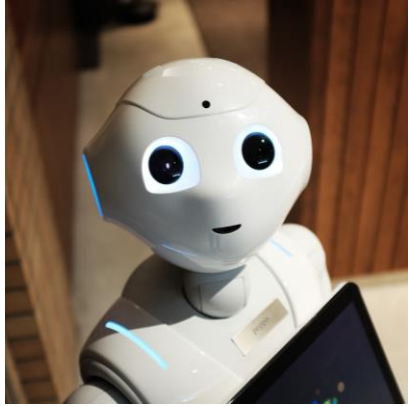


Information Age



The Next Age





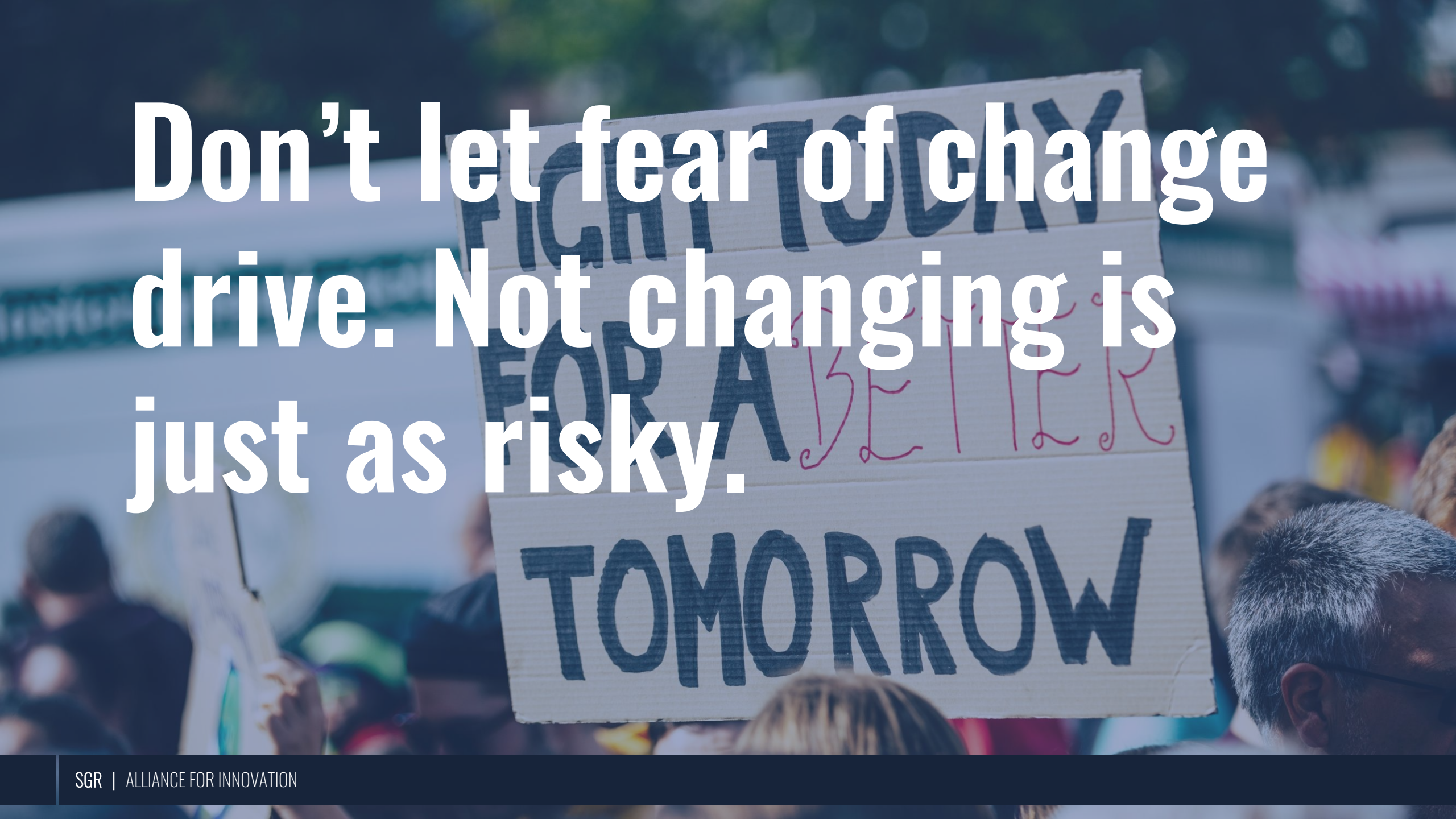
**What future
community
are you
building?**

3

final thoughts

A vintage telescope on a pedestal overlooking a body of water with mountains in the background. The scene is captured in a soft, teal-toned light, suggesting a calm, overcast day. The telescope is the central focus, pointing towards the horizon. The background shows a wide expanse of water and distant, hazy mountains under a cloudy sky.

**Q: How do we want to
live in the future?**

A protest sign made of cardboard is the central focus. The sign is divided into three horizontal sections. The top section has the words 'FIGHT TODAY' in blue, block letters. The middle section has 'FOR A' in blue, block letters, followed by 'BETTER' written in red, cursive script. The bottom section has 'TOMORROW' in blue, block letters. Overlaid on the sign is a large white text quote: 'Don't let fear of change drive. Not changing is just as risky.' The background is a blurred crowd of people at a protest.

Don't let fear of change drive. Not changing is just as risky.

Continuing the Conversation



**WANT THE LATEST UPDATES
IN SERVANT LEADERSHIP?**

Sign up for SGR's 10 in 10 eNewsletter - it's *FREE!*

governmentresource.com



hausonle
@governmentresource.com



Founded in 1999, SGR exists to help local governments become more successful by Recruiting, Assessing, and Developing Innovative, Collaborative, Authentic Leaders.

We use the acronym RADICAL. The original Latin radicallis means “back to the roots.” The current vernacular means “out on the very leading edge.” Not only does RADICAL highlight our business lines, but it also captures the constructive leadership tension between valuing the roots of healthy relationships while simultaneously being out on the very leading edge of change.

Find out more at www.governmentresource.com.