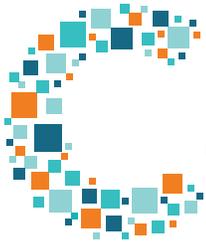


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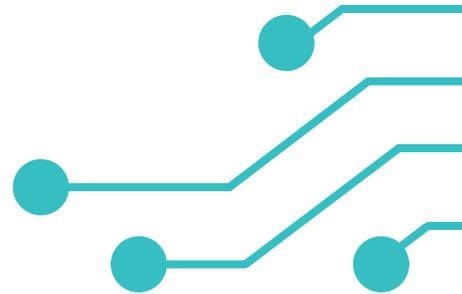
TEC NATION

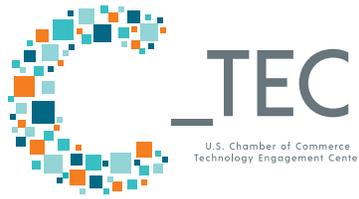
HOW THE AMERICAN ECONOMY IS
BENEFITTING FROM INNOVATIONS
IN TECHNOLOGY



_TEC

U.S. Chamber of Commerce
Technology Engagement Center





Our nation’s future economic success, growth, and competitiveness depends on a thriving and innovative technology sector. Every company is a tech company and data-driven innovation is the foundation of businesses across the country.

The Chamber Technology Engagement Center (C_TEC) tells the story of technology’s role in our economy and advocates for rational policy solutions that drive economic growth, spur innovation, and create jobs.

The U.S. Chamber of Commerce is the world’s largest business federation representing the interests of more than 3 million businesses of all sizes, sectors, and regions, as well as state and local chambers and industry associations.

Acknowledgments

C_TEC wishes to thank Accenture, Experian, Facebook, Google, Infosys, Liveramp, SAP as well as the local and state chambers that partnered with us on this project.

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Last year the U.S. Chamber’s Center for Technology Engagement (C_TEC) launched TecNation 2019, a nationwide campaign to inform the public and policymakers how technology is changing lives and shaping the future of our economy. Through a collaborative effort that included participation from local chambers of commerce, businesses across several industries, academics, and government officials, TecNation helped tell the story of technology in the global economy and how businesses and individuals will continue to benefit from innovation.

Since its creation in 2015, C_TEC has advocated for rational policies that drive economic growth, spur innovation, and create jobs. C_TEC has sought to counter misguided criticisms of the technology sector, which threaten to bring about harmful policies and adverse outcomes for businesses and consumers. TecNation has been a central component of these efforts by drawing on policy and business expertise to educate the public and policymakers at the state and federal levels.

TecNation 2019 events were held in Boston, Chicago, Columbus, Indianapolis, Seattle, Omaha, and Orlando. Each event was unique in terms of audience, speakers, and topics discussed. These events explored critical issues facing consumers and our economy, including data collection and privacy; the digital skills gap in the U.S. workforce; 5G; disruptive technologies, such as artificial intelligence (AI) and autonomous vehicles; and the ways that technology is transforming agriculture and rural communities across the country.

This report summarizes key takeaways and policy issues that were highlighted throughout TecNation.



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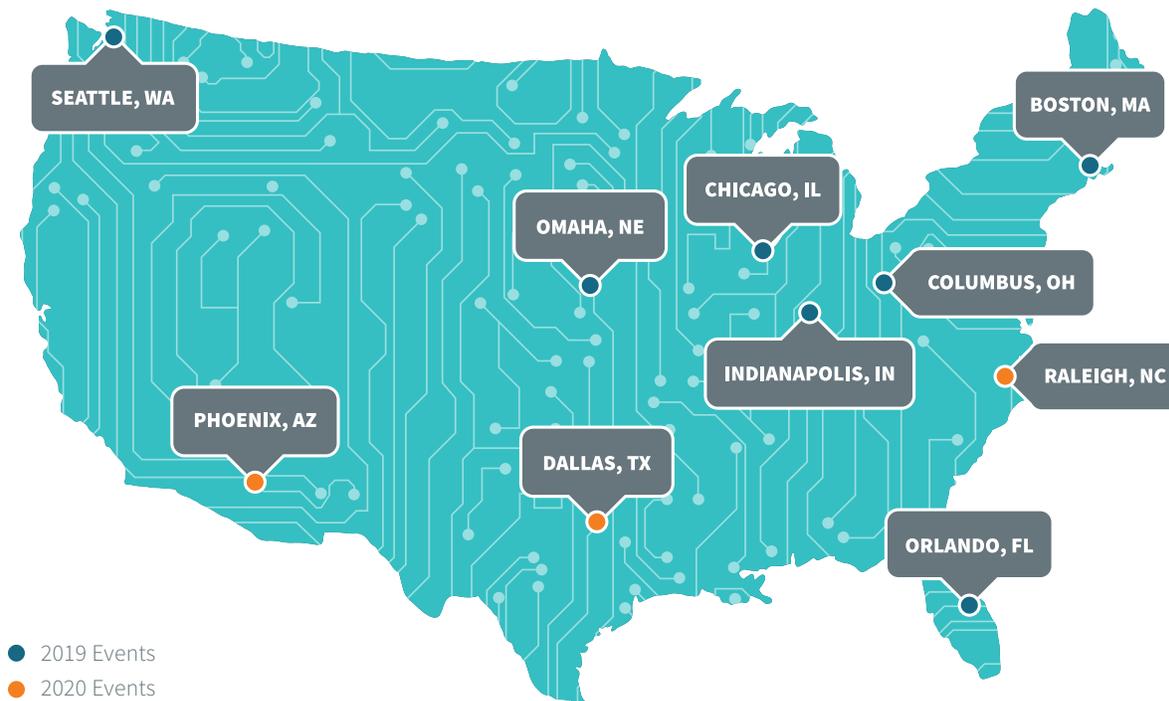
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TABLE OF CONTENTS

TECNATION 2019 EVENTS	4
TECNATION TOP ISSUES AND KEY TAKEAWAYS	4
Data: The Benefits of Data Use and Privacy Regulation	5
How to Close the Digital Skills Gap	6
The Digital Economy and Rural Communities	7
Smart Cities and the Impact of 5G	9
Artificial Intelligence: Challenges and Opportunities	10
Autonomous Vehicles	11
C_TEC POLICY PRIORITIES	12
APPENDIX: TECNATION PANELS AND SPEAKERS	14

Page 3 photo descriptions: 1. TecNation Indianapolis; 2. TecNation Columbus; 3. TecNation Omaha; 4. TecNation Indianapolis; 5. TecNation Indianapolis; 6. TecNation Omaha; 7. TecNation Indianapolis; 8. TecNation Omaha



TOP ISSUES DISCUSSED DURING TECNATION & KEY TAKEAWAYS

Data: The Benefits of Data Use and Privacy Regulation

Key Takeaways:

- » The responsible use of data—by both government and the private sector—can improve the quality of life for Americans and contribute significantly to economic growth.
- » Privacy remains a top concern for both individuals and businesses as data is increasingly used by government and businesses for various reasons.
- » Congress should enact a strong national privacy standard to avoid a patchwork of state regulations that would create complexity, particularly for small businesses, and impose major costs for companies and consumers.

The use of data plays an increasingly important role in our economy. A handheld smartphone today can store and process more data than the instruments used on the Apollo 11 spacecraft that landed on the moon over 50 years ago. While the revolution in data raises several concerns, principally around privacy, it also creates opportunities to improve society.

Used responsibly, data can enhance private and public security, expand financial inclusion and access to credit, promote economic development, and improve public health systems. This has led some to refer to the modern use of data as the “Fourth Industrial Revolution,” which will help democratize access to educational, entrepreneurial, health care, and employment opportunities for all Americans.

Data can also be used by state and local governments to ensure that public programs are operated efficiently and services are delivered to those who need them most. For example, at **TecNation | Columbus**, public officials described how the state of Ohio is utilizing data to address two major problems within the state: increased opioid use and infant mortality. A 2019 executive order on information technology (IT) modernization and data sharing from Ohio Gov. Mike DeWine has bolstered these efforts and allowed for the coordination of citizen services at both the state and local government levels.

TecNation | Columbus further highlighted how higher education institutions use data to integrate academic and employment predictors for success so that students can be better prepared for the workforce. The experience in Ohio—as well as in several other states—demonstrates that data can be used in a positive way by state and local governments to reduce inefficiencies, target services and education resources, and ultimately improve the quality of life for citizens.

At **TecNation | Seattle**, members of the New Democrat Coalition—a group of 100 Democratic members of Congress committed to pro-growth and pro-innovation policies—explained that many public policy objectives are predicated upon the responsible use of data. For example, coalition members discussed how medical data collected on personal devices can be used to assist epidemiologists, physicians, and other health care professionals in treating patients and promoting general public health. This data is highly relevant to today's COVID-19 pandemic. Furthermore, the panel touched on how properly analyzing data can improve the delivery of government services, in particular for veterans who rely on health care and other needs from the Department of Veterans Affairs.

Data Privacy Regulation

Protecting sensitive personal data was also a major topic of interest during TecNation. Consumers have a right to be assured that personal information is safeguarded and used responsibly, especially in an era when government and private sector databases are under continuous attack by illicit actors. A clear takeaway from TecNation is that businesses of all sizes place a high priority on the protection of consumer data and maintain policies to ensure that information is used responsibly.

TecNation | Chicago

“IT’S CRITICAL THAT CONGRESS ACTS NOW TO GET A FEDERAL COMPREHENSIVE DATA PRIVACY LAW THAT PROVIDES CLEAR RULES FOR THE ROAD.”

Candace Ranglin
Kabbage, Inc.

However, TecNation participants are concerned that a patchwork of state data privacy laws will make it harder for consumers to gain access to their preferred products and services. As one speaker said during **TecNation | Chicago**, “In the U.S., privacy is regulated by a patchwork of overlapping but not entirely consistent state and federal laws. These laws can be really challenging to try and become compliant if you are a national or international business, or even a company that just has a multijurisdictional presence.”

In 2018, California passed the California Consumer Privacy Act (CCPA), which will impact businesses of all sizes and is estimated to impose up to \$55 billion in compliance costs for California companies alone. Small businesses will incur costs as high as \$50,000 to be current with the CCPA. Other states are considering passing their own legislation, which will only complicate compliance and increase costs further for both businesses and consumers.

These discussions bolstered C_TEC’s calls for Congress to enact one national and robust privacy standard that provides regulatory certainty for both businesses and consumers.

Jamie Ponce, Director, City Tech Collaborative; Brad Lane, IoT Smart Cities, AT&T; and Angie Fry, Associate General Counsel, Verizon, speaking on “The Future Is Physical: How IT Infrastructure Is Tomorrow’s Most Vital Technology” at TecNation | Chicago on August 15, 2019.



Closing the Digital “Skills Gap”

Key Takeaways:

- » Businesses continue to face challenges with finding qualified candidates to fill positions that require technological proficiency.
- » The public and private sectors, as well as academia, all have a role to play to ensure that students and those seeking work possess the skills that employers are looking for to be competitive in a 21st century economy.

Technology, automation, globalization, and other forces are rapidly reshaping the global economy. While this transformation creates opportunity, it likewise creates disruption and a need for workers to have the digital and technological skills necessary for a 21st century economy.

TecNation | Columbus

“IT’S NOT ALWAYS ALL ABOUT THE DEGREE; IT’S REALLY ABOUT THE CREDENTIALS. THE SENSE OF WHAT PEOPLE NEED TO SUCCEED IS CHANGING.”

Bruce McPherson

Executive Vice President and Provost, The Ohio State University

Each year, thousands of vacant tech positions go unfilled, and this IT skills gap is only expected to grow over the next five years. Businesses all over the country—and in virtually every industry—are desperately seeking highly skilled IT professionals but are having trouble identifying and hiring the right people. TecNation participants described how the private sector is taking the lead on pinpointing solutions to equip the American workforce for the modern-day economy.

TecNation | Orlando featured remarks from the executive director of the Florida Consortium of Metropolitan Universities, who described how academia and the private sector are working together to solve the skills gap. This includes working with private businesses to provide colleges and universities with real-time labor market data to help these schools properly train students for particular fields.

At **TecNation | Columbus**, the president and CEO of the Columbus YWCA noted how the organization helps individuals with basic digital and technological skills and provides centers for people to use broadband internet or other tools for which they do not regulatory have access.

Several TecNation speakers emphasized the need for proper training in specific fields through mechanisms that may or may not involve a traditional four-year college degree. At **TecNation | Columbus**, the provost of The Ohio State University discussed some of the work the university is doing with the private sector to help students obtain credentials in distinct fields such as coding. The New Democrat Coalition panel at **TecNation | Seattle** also pointed to the importance of apprenticeships and on-the-job training for students and others who are looking to enter the workforce.

C_TEC and the U.S. Chamber will continue working to close the digital skills gap by supporting partnerships with employers and education providers and offering a forum for solving this critical issue.

The Importance of the Digital Economy to Rural Communities

Key Takeaways:

- » Manufacturing and services have replaced agriculture as the primary industries in rural communities; nevertheless, many communities lack adequate access to broadband and other technologies that can help them grow and employ more local workers.
- » Increased access to technological tools could collectively increase sales for rural businesses in America by \$84 billion per year.

TecNation | Omaha

“WE’RE REALLY RECOGNIZING THAT THE DIGITAL DIVIDE DOES NEED TO BE CLOSED, AND IT COMES THROUGH WORKING WITH PARTNERS YOU NEVER THOUGHT YOU’D WORK WITH.”

Julie Bushell

President, Paige Wireless

An important but sometimes overlooked issue is the positive impact that digital technologies have on rural economies. While rural America consists of 18 million households and accounts for nearly 15% of the U.S. adult population, annual revenues of businesses located in rural areas account for less than 10% of the U.S. economy. This has contributed to a large number of rural residents migrating to metropolitan areas to obtain jobs.

As manufacturing and service industries replace agriculture and mining as the dominant industries in rural areas, use of digital tools and technology will be essential for businesses in these communities to succeed. A 2019 report from C_TEC found that small businesses in rural areas have been incrementally adopting digital tools, and that doing so has helped decrease costs and boost sales for many businesses.¹

However, the C_TEC report found that there is room for improvement: For example, while nearly all residents in metropolitan areas have access to high-speed internet, nearly 27% of rural residents do not. Moreover, the digital skills gap disproportionately affects rural communities as those businesses that are working to integrate technology into their operations find it difficult to hire workers with the right skills. With greater adoption of digital tools and technology, the C_TEC report estimated that gross nationwide sales of rural businesses could increase by \$84 billion per year.

TecNation | Indianapolis and **TecNation | Omaha** brought together representatives of the public and private sectors to discuss how technology can help America's rural schools, workforce, and businesses remain competitive in a global economy. These sessions helped convey a better understanding about the significant entrepreneurial potential of rural America and some of the public policy issues that will promote and increase employment throughout these communities. Moreover, panelists focused on the need for private smart funding and permitting relief to connect rural America.

TecNation | Indianapolis likewise featured a panel that discussed how technology contributes to a "farming revolution" in which new technologies help increase crop yields and cut down on costs for farmers across the country.



On March 19, 2019, Mitch Frazier, CEO, Reynolds Farm Equipment moderated a panel discussion on the Farming Revolution, featuring Aaron Ault, Vice President of Ault Farms and Senior Research Engineer for the Open Ag Tech and Systems Center at Purdue University; Brad Fruth, Information Systems Manager, Beck's Hybrids; Johnny Park, CEO, Wabash Heartland Innovation Network; Tiffany L. Houchin, Director, Global Swine and Poultry Product Development, Elanco Animal Health, at TecNation | Indianapolis.

¹ <https://americaninnovators.com/wp-content/uploads/2019/03/Unlocking-the-Digital-Potential-of-Rural-America.pdf>

Smart Cities and the Impact of 5G

Key Takeaways:

- » Cities increasingly use and analyze data to improve transportation and congestion, emergency response times, and delivery of social services.
- » The nationwide deployment of 5G will help cities and other entities rely on technology to operate more efficiently and effectively for their residents.

C_TEC has long supported the rapid deployment of a reliable and secure 5G network, which has the potential to increase global economic activity by over \$12 trillion over the next 15 years. 5G is what its name implies—the fifth generation of mobile communications networks that will increase data transfer speeds and enable networks to carry more data with decreased lag times.

5G technology will rely upon small cells, many of which are the size of a pizza box or a hockey puck, to be deployed more widely than traditional large cell towers. This combination of efficiency and capability has the potential to be a game-changer for technological advancements and society at large.

Rob Palmer, Planning Group Leader, RS&H; Paul Satchfield, Program Management Administrator, Florida's Turnpike Enterprise; Beth Kigel, President and CEO, Palm Beach North Chamber of Commerce; and Matt Lubbers, Director of Systems Engineering & Operations, Voyage discuss autonomous vehicles at TecNation | Orlando on April 24, 2019.



Cities around the world increasingly use data to enhance safety, lessen environmental impact, improve transportation systems, and address other needs of urban communities. TecNation explored how 5G is going to further enable the development of smart cities that use technology to improve aspects of urban life.

A panel at **TecNation | Seattle** featured representatives from innovators in the wireless industry who discussed specific examples of how cities use data insights to improve services and how 5G will enhance those efforts. These included one city that was able to use data to decrease emergency response times by changing work shifts for personnel and implementing traffic signal priorities to provide the fastest route for emergency vehicles. Other examples included cities and counties that help businesses use parking lots as hubs for the delivery of goods and services ordered through mobile networks.

TecNation | Seattle

“DATA INSIGHTS ARE PROBABLY THE MOST VALUABLE TOOL THAT A CITY CAN HAVE.”

Azmeena Hasham

Enterprise Architect, Verizon Wireless

TecNation | Columbus highlighted speakers from the ride-share industry who explored how cities are seeking to become “smarter” and more flexible in responding to citizens’ needs by looking to Internet of Things (IoT) technology to enable cutting-edge intelligence and the flexibility necessary to help cities use their resources more efficiently. Smart America estimates that cities will spend \$41 trillion over the next 20 years to upgrade their infrastructure to benefit from IoT.² Columbus was one of the first recipients of the Department of Transportation’s Smart City Grants, which has already positively impacted Columbus as it employs technology to improve the lives of its residents.

Representatives from the travel industry at **TecNation | Orlando** explained how technology improves the ability of cities and the tourism industry to meet the needs of tourists and enables people to book travel in new and innovative ways.

C_TEC will continue to support policies at the federal and state levels that motivate cities to upgrade their technological infrastructure and promote the deployment of 5G across the country.

² <https://smartamerica.org/teams/smart-cities-usa>

Artificial Intelligence: Challenges and Opportunities

Key Takeaways:

- » While artificial intelligence (AI) is a disruptive technology, its largest impact will likely be to change the nature of work rather than make human workers obsolete.
- » Policymakers and the private sector should focus on preparing and training an AI-ready workforce, making investments to enable AI innovations and ensure a risk-based regulatory approach to AI.

C_TEC and its member companies have been actively engaged with policymakers at the federal and state levels about the different types, uses, and policy issues associated with AI, while advocating for policies that enable it to flourish. In September 2019, C_TEC released a set of 10 principles governing the use and regulation of AI.³ These principles emphasized the importance of building an AI-ready workforce, taking into account existing laws and regulations and how they apply to AI; adopting robust and flexible privacy regimes; and promoting public-private cooperation as AI increasingly permeates the operations of businesses and the broader economy.

Through an interview with Adam Broun, CEO of AI company Kensho, **TecNation | Boston** helped generate a greater understanding of the impact of AI on various industries and why it is important to incentivize AI innovation. Boston is also home to the Massachusetts Institute of Technology (MIT), which announced a plan to create a new college focused specifically on developing students in the field of AI.

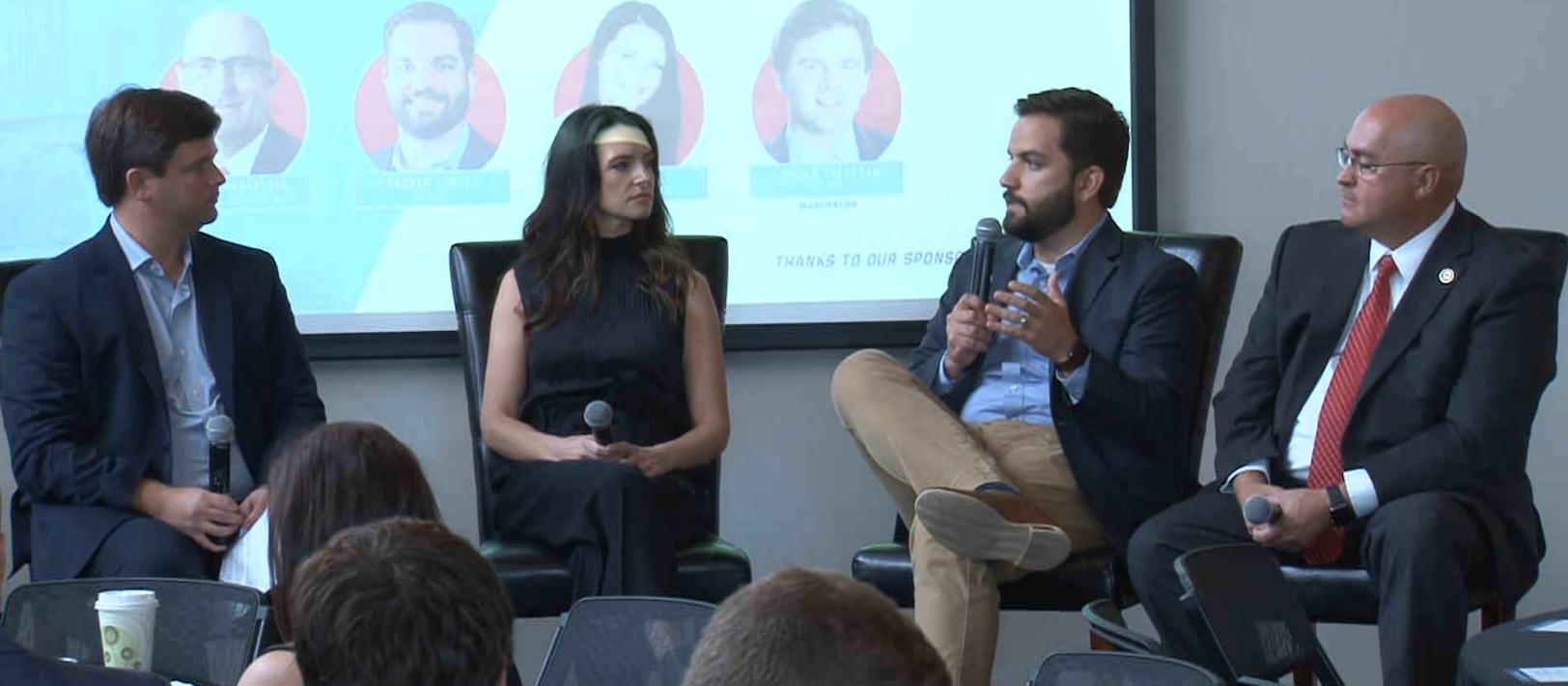
TecNation | Boston

“IF YOU LOOK AT EVERY INDUSTRIAL REVOLUTION WE’VE BEEN THROUGH, IT’S NOT THAT JOBS HAVE GONE AWAY, IT’S THAT THE NATURE OF JOBS HAS CHANGED. I THINK AN OPTIMIST COULD MAKE A STRONG CASE THAT IS ALSO TRUE THROUGH THE AI REVOLUTION WE’RE SEEING TODAY.”

Adam Broun
CEO, Kensho

A common theme throughout TecNation—whether in discussions about AI or other technologies—was that policymakers and market participants should not fear the disruption caused by these new forces. Instead, they should find ways that ultimately benefit workers, consumers, and the broader economy. This was reinforced by members of the New Democrat Coalition at **TecNation | Seattle**, who noted that, just like in the past, new industries will be borne out of the innovation we are seeing today.

³ <https://americaninnovators.com/news/u-s-chamber-releases-artificial-intelligence-principles>



Jordan Crenshaw, Executive Director & Policy Counsel, C_TEC, moderates a discussion on “Expanding Access to the Digital Economy” with Julie Bushell, President, Paige Wireless; Andrew Curley, Director of Government Relations, MidCo; and Karl Elmshaeuser, State Director, USDA Rural Development at TecNation | Omaha on September 27, 2019.

Automated Vehicles

- » Automated vehicles can improve the safety, efficiency, and mobility of our transportation systems.
- » While promoting safety as the primary goal, regulators should also encourage testing, development, and deploying automated vehicles throughout the country.
- » **A national automated vehicle regulatory framework is necessary to ensure certainty and promote innovation.**

Automated vehicles have the potential to significantly reduce the number of Americans that die annually from motor vehicle crashes—94% of which are attributable to human error. In addition to road safety, automated driving systems (ADS) can enhance mobility for the elderly and people with disabilities and improve transportation efficiency across the country.

In 2019, C_TEC issued a set of policy principles for the regulation and advancement of automated vehicles.⁴ While emphasizing safety as the foremost goal for policymakers, the principles also outlined recommendations regarding regulatory roles for state and federal authorities and ways to promote the testing and deployment of automated vehicles.

TecNation | Omaha and **TecNation | Orlando** provided a platform for elected officials and industry participants to provide their perspectives on how regulations are—or are not—keeping pace with automated vehicle innovation and the impact that the proliferation of automated vehicles will have on safety, efficiency, and the overall economy.

⁴ <https://www.uschamber.com/issue-brief/ctecs-automated-vehicle-policy-principles>

C_TEC POLICY PRIORITIES

Promoting a Data-Driven Society

Data is the lifeblood of the 21st century digital economy and society. It is for this reason that C_TEC advocates for policies that enable data to increase productivity and economic growth benefitting all Americans and society as a whole for applications such as public health and safety and the inclusion of economically disadvantaged Americans. C_TEC will promote policies that encourage certainty and protection for citizens and business. For example, C_TEC supports these policies:

- » Enactment of a national data privacy bill that protects all Americans equally.
- » Sensible AI regulation and investment to enable AI.
- » Promotion of open and accessible government data.
- » Prohibition of facial recognition technology bans.
- » Education about the benefits of data.

Smart and Connected National Infrastructure

For all Americans to reap the benefits of a data-driven society, policies should foster a smart and connected national infrastructure built on next-generation networks that allows emerging transportation technologies like autonomous vehicles and unmanned aircraft to thrive. These new communications networks will utilize land-, wireless, and satellite-based broadband and cloud computing. Congress, the Federal Communications Commission, the Department of Transportation, and other federal agencies should provide the necessary funding and implement a balanced regulatory framework for modernized communications and innovative transportation networks. C_TEC engages in the following:

- » A permanent broadband regulatory framework tailored for the Digital Age that enables consumers to access the information they want while promoting innovation and investment.
- » Smart funding for rural communications networks that target areas truly unserved by high-speed internet and IoT-enabled smart cities.
- » Smart communications permitting regulations on the federal, state, and local levels that enable technologies like 5G and smart cities.
- » A balanced national spectrum policy that is technologically neutral.
- » A national framework for autonomous vehicle safety.
- » Reasonable regulations to enable unmanned aircraft safety and unlock innovation.

An Upskilled Workforce

Finally, building the infrastructure of tomorrow and taking advantage of e-commerce and the new economy will require a new modern 21st century workforce. To foster the talent needed to build this connected, data-driven network, policymakers should encourage new, innovative, and flexible business models. Working with the broader Chamber, C_TEC promotes the following policies:

- » Flexible working relationships for the gig economy and not a one-size-fits-all approach to work like California's AB-5.
- » Commonsense immigration policies to expand the talent pipeline.
- » Funding for technology research and development.
- » The inclusion of data centers in communities.
- » The expansion of communications networks for unserved Americans and access to digital tools like distance learning.

APPENDIX: AGENDAS AND SPEAKERS FOR TECNATION 2019 EVENTS

TecNation Indianapolis: March 19

PANEL: Upskilling the American Workforce

- » Mike Langellier, President and CEO, Techpoint (*Moderator*)
- » Richard Cardwell, Vice President & Head of Midwest Region, Infosys
- » Indiana Gov. Eric Holcomb

PANEL: Getting Data Privacy Right

- » Tim Day, Then-Senior Vice President, C_TEC (*Moderator*)
- » Robert Cunningham, Corporate Counsel of Product and Privacy, Salesforce
- » Kirsten Keefe, Senior Counsel, Cummins

PANEL: The Farming Revolution

- » Mitch Frazier, CEO, Reynolds Farm Equipment (*Moderator*)
- » Aaron Ault, Vice President of Ault Farms and Senior Research Engineer for the Open Ag Tech and Systems Center at Purdue University
- » Brad Fruth, Information Systems Manager, Beck's Hybrids
- » Johnny Park, CEO, Wabash Heartland Innovation Network
- » Tiffany L. Houchin, Director, Global Swine and Poultry Product Development, Elanco Animal Health

Keynote Address by Indiana Lt. Gov. Suzanne Crouch

PANEL: Using Tech to Unlock the Potential of Rural America

- » Jodi Golden, Director of IN Office of Community and Rural Affairs (*Moderator*)
- » Rep. Don Lehe (R-IN), Chair of Agriculture & Rural Development Committee

TecNation Orlando: April 24

Keynote Address: Florida 2030: A Blueprint to Secure Florida's Future

- » John Kaliski, Florida 2030 Consultant Leader, Cambridge Systematics

PANEL: Autonomous Vehicles

- » Rob Palmer, Planning Group Leader, RS&H (*Moderator*)
- » Paul Satchfield, Program Management Administrator, Florida's Turnpike Enterprise
- » Beth Kigel, President and CEO, Palm Beach North Chamber of Commerce
- » Matt Lubbers, Director of Systems Engineering & Operations, Voyage

TEDTALK: Electric Mobility

- » John Walsh, Senior Vice President of Sales, Proterra

FIRESIDE CHAT: Commercial Space

- » Tim Day, Then-Senior Vice President, C_TEC (*Moderator*)
- » Dale Ketcham, Vice President, Government & External Affairs, Space Florida

TEDTALK: Upskilling the American Workforce

- » Dr. Michael Preston, Executive Director of the Florida Consortium for Metropolitan Universities

TEDTALK: Technology's Impact on Immersive Experiences

- » Prasad Joshi, Senior Vice President and Head of Innovation and Emerging Technology Worldwide, Infosys

PANEL: Tech and Tourism

- » John Davis, Executive Vice President, Orlando Chamber of Commerce (*Moderator*)
- » Paul Seago, Government Affairs Manager, Southeast Region, Expedia Group
- » Prasad Joshi, Senior Vice President and Head of Innovation and Emerging Technology Worldwide, Infosys

TecNation Boston: May 23

FIRESIDE CHAT: Artificial Intelligence: Why Innovation Matters

- » Julie Stitzel, Then-Managing Director of Policy & Strategic Initiatives, C_TEC (*Moderator*)
- » Adam Broun, CEO, Kensho

PANEL: Health Tech

- » Jessica Bartlett, Reporter, *Boston Business Journal* (*Moderator*)
- » Dr. Richard Baum, MD. Chief, Division of Angiography and Interventional Radiology, Brigham and Women's Hospital and Associate Professor, Harvard Medical School
- » Meghan Gaffney Buck, Founder & CEO, VEDA

PANEL: Closing the Digital Skills Gap

- » Julie Stitzel, Then-Managing Director of Policy & Strategic Initiatives, C_TEC (*Moderator*)
- » Kate Maloney, Executive Director, Infosys Foundation USA
- » Meghan Hughes, President, Community College of Rhode Island

FIRESIDE CHAT: Getting Data Privacy Right

- » Carolyn Ryan, Senior Vice President of Policy & Research, Greater Boston Chamber of Commerce (*Moderator*)
- » Sparky Zivin, Partner, Brunswick Insight

PANEL: Using Tech to Unlock the Digital Potential of Small Business

- » Tim Day, Then-Senior Vice President, C_TEC (*Moderator*)
- » Jurgen Nebelung, Vice President, Ecommerce and Marketplaces, Tea Forté
- » Ed Serpe, Senior Vice President, Finance & Operations, Alder

TecNation Columbus: July 16

FIRESIDE CHAT: Tech in Ohio

- » Tim Day, Then-Senior Vice President, C_TEC (*Moderator*)
- » Jon Husted, Lt. Gov., Indiana

PANEL: The Benefits and Value of Data and Analytics Sharing: Case Studies and Opportunities to Break Down Barriers for Coordinated Service Delivery

- » Josh Sandstrom, Managing Director, Accenture (*Moderator*)
- » Ervan Rodgers, Chief Information Office, State of Ohio
- » Rebecca Butler, Executive Vice President, Columbus State Community College
- » Michelle Heritage, Executive Director, Community Shelter Board

PANEL: Investing in Ohio

- » Mark Williams, Reporter, *The Columbus Dispatch* (*Moderator*)
- » Falon Donohue, CEO, VentureOhio
- » Rich Langdale, Managing Partner, NCT Ventures
- » Darshan Vyas, Managing Partner & Co-Founder, Loud Capital

PANEL: Get Smart on Blockchain

- » Julie Stitzel, Then-Managing Director of Policy & Strategic Initiatives, C_TEC (*Moderator*)
- » Bernie Moreno, Founder of Blockland
- » Michael Hiles, Founder/CEO at 10XTS
- » Howard Popoola, Vice President of Corporate Food Technology and Regulatory Compliance for The Kroger Company

PANEL: Reimagining Cities

- » Shannon Hardin, Columbus City Council President (*Moderator*)
- » Ryan McManus, Co-Founder and CEO, SHARE
- » Eric McCarthy, Senior Vice President of Government Relations, Public Policy and Legal Affairs, Proterra
- » Demetrius Thomas, Market Manager, Lyft

PANEL: Getting Data Privacy Right

- » Tim Day, Then-Senior Vice President, C_TEC (*Moderator*)
- » Kirk Herath, Vice President, Associate General Counsel and Chief Privacy Officer, Nationwide Insurance Companies

PANEL: Closing the Digital Skills Gap

- » Andy Chow, Reporter, Statehouse News (*Moderator*)
- » Christie Angel, President and CEO, Columbus YWCA
- » Bruce McPherson, Executive Vice President and Provost, The Ohio State University



ABOVE: Rich Langdale, Managing Partner, NCT Ventures; Falon Donohue, CEO, VentureOhio; and Darshan Vyas, Managing Partner & Co-Founder, Loud Capital discuss investing in Ohio with moderator Mark Williams, Reporter, The Columbus Dispatch.

LEFT: On July 16, 2019, then-Senior Vice President of C_TEC Tim Day conducts a fireside chat on Tech in Ohio with Jon Husted, Lieutenant Governor of Indiana.

TecNation Seattle: July 22

PANEL: Closing the Digital Skills Gap

- » Dina Bass, Reporter, Bloomberg (*Moderator*)
- » Ravi Kumar, President, Infosys
- » Representative Suzan DelBene (WA-01)

PANEL: Driving Technological Innovation: A Conversation With New Democrat Coalition Members

- » Debbie Cockrell, Reporter, *News Tribune* (*Moderator*)
- » Rep. Derek Kilmer (WA-06)
- » Rep. Kim Schrier (WA-08)
- » Rep. Ami Bera (CA-07)
- » Rep. Greg Stanton (AZ-09)

PANEL: The Impact of 5G on Smart Cities

- » Debbie Cockrell, Reporter, *News Tribune* (*Moderator*)
- » Bob Bass, President, Washington, Hawaii and Alaska, AT&T
- » Azmeena Hasham, Enterprise Architect, Verizon Wireless

PANEL: Unlocking the Digital Potential of Small Business

- » Julie Stitzel, Then-Managing Director for Policy & Strategic Initiatives, C_TEC (*Moderator*)
- » Sarah Bak, Owner, Sarah Bak Pottery
- » Ken McNamee, Owner, Chef Ken's Catering
- » Samuel Hilbert, Owner, Aluel Cellars

PANEL: Big Data Vs. Thick Data

- » Lindsay Campau, Director, New Business Development, The Mother Board
- » Tracy Wong, Chief Creative Officer, WONGDOODY/Infosys

TecNation Chicago: August 15

PANEL: The Biometric Information Privacy Act (BIPA): The Recent Explosion of Lawsuits in Illinois and How Businesses Can Reduce Legal Risk

- » Kate Deal, Partner, Akin Gump
- » Michelle Reed, Partner, Akin Gump
- » Nathan Olson, Partner, Akin Gump
- » Jay Edelson, Founder and CEO, Edelson PC

How Illinois Leaders are Closing the Skills Gap

- » Ann Gillespie, Illinois State Senator

PANEL: The Future is Physical: How IT Infrastructure is Tomorrow's Most Vital Technology

- » Jamie Ponce, Director, City Tech Collaborative
- » Brad Lane, IoT Smart Cities, AT&T
- » Angie Fry, Associate General Counsel, Verizon

PANEL: How Artificial Intelligence is Changing the Workplace

- » Dr. Lindsey Zuloaga, Director of Data Science, Hire Vue
- » Matei Stroila, Director ML& AI Engineering, HERE

Cannabis and Technology in a Post-Prohibition Illinois

- » Peter Gigante, Head of Policy Research, Eaze

FIRESIDE CHAT: The Need for Federal Data Privacy Legislation

- » Candace Ranglin, Esq., Kabbage, Inc.

TecNation Omaha: September 27

PANEL: Autonomous Vehicles

- » Rochelle Mallett, Principal, Husch Blackwell Strategies (*Moderator*)
- » Sen. Anna Wishart, District 27, Nebraska
- » Miki Esposito, Director of Public Works, City of Lincoln

PANEL: Data Privacy

- » Jordan Crenshaw, Executive Director & Policy Counsel, C_TEC (*Moderator*)
- » Avi Atholi, Vice President of Data Management, First National Bank
- » AriAnna Goldstein, Associate, BairdHolm

TEDTALK: Why Omaha?

- » Beth Stanaland, Director, Operations and Strategy, C_TEC (*Moderator*)
- » Brent Brummer, Vice President, Business Strategy And Operations, Sojern

PANEL: Workforce Skills Gap

- » Jona Van Deun, President, Nebraska Tech Collaborative (*Moderator*)
- » Mike Cassling, Chairman and Chief Executive Officer, CQuence
- » Dan Houghton, Co-Founder, Buildertrend
- » Katie Barton, Chief Information Officer, Gallup

PANEL: Expanding Access to the Digital Economy

- » Jordan Crenshaw, Executive Director & Policy Counsel, C_TEC (*Moderator*)
- » Karl Elmshaeuser, State Director, USDA Rural Development
- » Andrew Curley, Director of Government Relations, MidCo
- » Julie Bushell, President, Paige Wireless

FIRESIDE CHAT: CSG International

- » Beth Stanaland, Director, Operations and Strategy, C_TEC (*Moderator*)
- » Bret Griess, President and CEO, CSG International

