



## Question today Imagine tomorrow Create for the future

Our future world will be very different from today's in many ways. Trends in climate, society, technology and resources will have a big impact on the communities in which we live, and on the projects we deliver for clients. Whether it's sea level rise, reduced reliance on private vehicles, smarter and more connected systems, or greater access to renewable power sources, our clients need to understand and prepare for these trends now.

As engineers, planners, advisors and construction management professionals, WSP considers the effects that trends in climate, society, technology and resources will have on our communities for the next century. We help clients look beyond a ribbon-cutting to how a facility will fit into a very different future than what we know today. How can we make sure a bridge will meet future infrastructure hardening criteria? How can we accommodate last-mile solutions that anticipate connected and automated vehicles? How can we connect communities to improve access to healthcare and social networks?

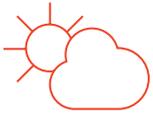
### **Our approach**

Future Ready® is WSP USA's approach to thinking beyond the conventional so that we can design and deliver infrastructure that is ready for the changes and challenges our world will face in the future. Being future focused, understanding what the world might look like in the next several decades, and taking action to prepare for this future, is essential to what we do at WSP. Our clients count on it and our communities thrive because of it.

WSP has developed a tool kit that:

- Assesses the key trends affecting our clients and communities, and the impact they may have on projects in the future.
- Connects WSP resources globally to consider how future trends can be addressed in designs to deliver immediate value as well as long-term benefits.
- Provides thought leadership to better understand trends in climate, society, technology and resources, and innovative approaches for integrating these trends into project development solutions.

# Understanding Future Trends



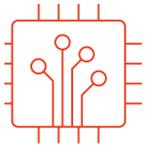
## CLIMATE

By 2050, much of the United States is projected to experience at least 20 to 30 more days per year over 90°F. This will expand the reach of heat stressors to new locations that are not currently prepared or designed to cope with this threat.



## SOCIETY

Society will change – the population will be larger, older and more diverse. Projections indicate nearly 100 million Americans will be 65 or older by 2060. Housing, mobility, jobs and public services must adapt to best serve our changing society.



## TECHNOLOGY

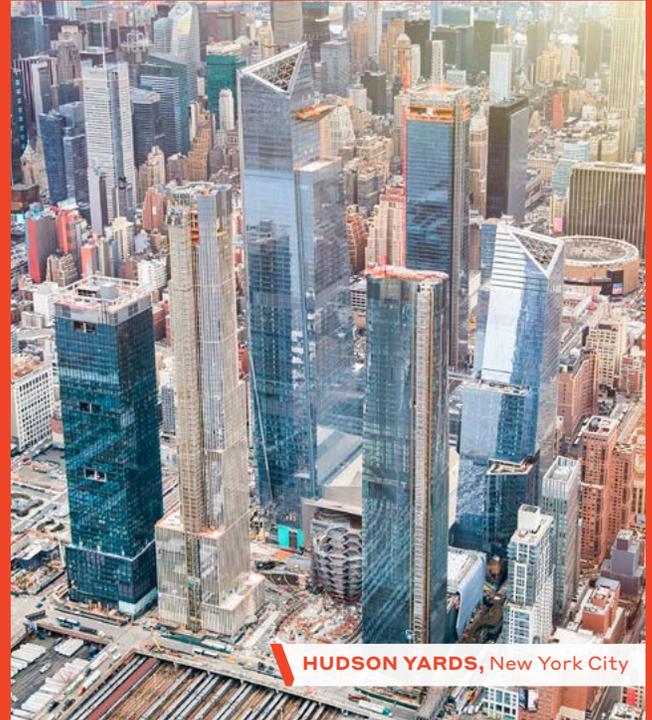
Advances in technology will bring increased electrification, automation and connectivity. By 2030, 500 billion devices are expected to be connected to the Internet of Things.



## RESOURCES

Resources, from energy to sand and gravel, are forecast to be more expensive in the future, increasing demand for renewable, recycled or cheaper alternatives.

## Preparing cities, infrastructure and companies for a future world



HUDSON YARDS, New York City

Large infrastructure projects can take 20+ years to build

A building's mechanical and electrical system on average has a 25-year design life

Industry-changing technologies are being introduced faster than we can adapt to them

Bridges typically have a design life of up to 100 years, railways 50 years

## ABOUT WSP USA

WSP USA is the U.S. operating company of WSP, one of the world's leading environmental, engineering and consulting services firms. Dedicated to serving local communities, we are engineers, planners, sustainability and resilience experts, strategic advisors and construction management professionals. WSP designs lasting solutions in the buildings, transportation, energy, water and environment markets. With more than 12,000 employees in 200 offices across the U.S., we partner with our clients to help communities prosper.

## CONTACT US

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