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The future of global infrastructure

A survey of infrastructure trends

A report from the Deloitte Center for Government Insights

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The year 2022 marks a new beginning for infrastructure across the globe

HE PANDEMIC AND associated economic disruption are prompting new thinking about infrastructure. Governments around the world are investing in infrastructure to deal with this new reality and to help jump-start the recovery (see figure 1). These infrastructure funds are coming at a time when several larger trends are changing the way we think about infrastructure:

Economic stimulus for a postpandemic rebuild: The pandemic acted like a time-machine into the future, delivering massive changes faster than imaginable. Governments are investing in this new economy, which will require new—and different—infrastructure.

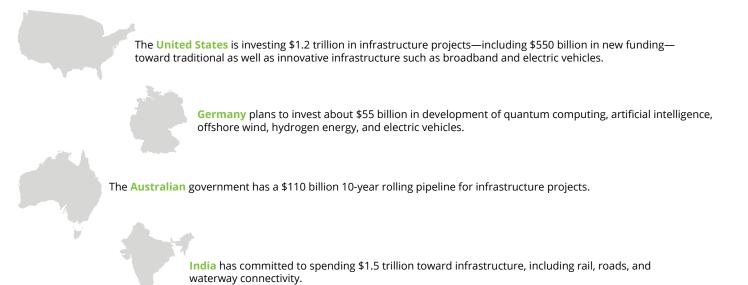
Focus on environmental sustainability: While green infrastructure has been on the radar for a while, many governments around the world are increasing commitment to environmental projects.

Emphasis on greater social equity: There is a strong focus on ensuring that new infrastructure meets the needs of all people.

Technology: The pandemic demonstrated the ever-increasing importance of technology. From broadband access to smart infrastructure, technology and cybersecurity are transforming infrastructure priorities.

FIGURE 1

Global investments for infrastructure projects



Note: All dollar amounts are in US dollars.

Sources: Cantwell.senate.gov, *Bipartisan Infrastructure Investment and Jobs Act summary: A road to stronger economic growth*, accessed January 24, 2022; Jonathan Ponciano, "Everything in the \$1.2 trillion infrastructure bill: New roads, electric school buses and more," *Forbes*, November 15, 2021; Éanna Kelly, "Germany unveils €50B stimulus for 'future-focused' technologies," Science Business, June 4, 2020; Australian Government, Budget Announcements (2021-22 budget) from the Department of Infrastructure, Transport, Regional Development and Communications; Matt Harris, "India commits 100 lakh crore to infrastructure in new budget," GRI Hub, July 25, 2019.

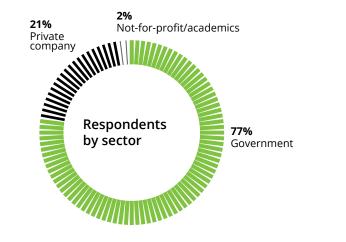
What does the future hold for infrastructure globally? We asked the specialists.

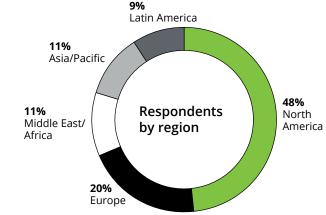
O FIND OUT what's ahead, in September 2021, we surveyed more than 600 public officials and infrastructure executives worldwide. These were senior officials in the area of infrastructure, representing governments, private companies, and nonprofits including academics (figure 2). We surveyed public officials from national (17%), state (31%), and local (52%) governments, with a greater weighting on state and local governments since they are more responsible for the actual execution of infrastructure projects. Deloitte engaged an outside survey firm to conduct a "double blind" survey to promote unbiased participation. (For more information on the survey methodology, see the appendix.)

Our survey respondents also shared their comments and insights with us, and some of their quotes will be shared throughout the report.

FIGURE 2

Our survey respondents were spread across sectors and geographies





Note: Percentages may not add up to 100 due to rounding. Source: Deloitte analysis.

Ninety-eight percent of respondents told us they expect that there will be significant, lasting impacts from the pandemic—including higher demand for multimodal transportation

The pandemic disrupted everything. What remains to be seen is which changes will be transient and which ones will be more enduring.

Importantly, an overwhelming majority of our survey respondents (98%) agree that the pandemic will have significant, lasting impact on infrastructure. However, there was disagreement about what that impact will be.

The biggest impacts expected by those surveyed are higher demand for multimodal transportation and broadband (figure 3). In Europe, demand for multimodal transportation is expected to be the largest with almost 60% of respondents saying there will be greater demand.

More than one-third of respondents also believe that there will be more people working from home and greater use of telemedicine. Interestingly, greater use of online modes of working or accessing services are not expected to translate to where and how people live. **Only 4% of respondents believe that there will be fewer people living in cities** and only 19% believe that there will be more demand for larger residential units.

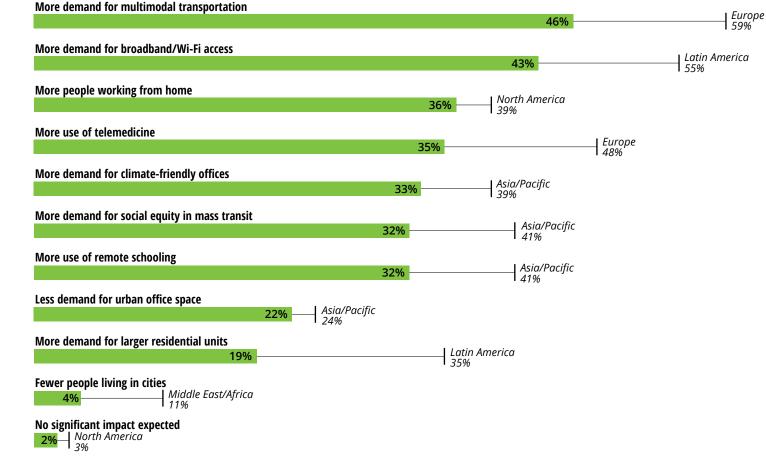
> Respondents do not expect people to flee cities. But they do believe demand for multimodal transportation will increase.

FIGURE 3

Higher demand for multimodal transportation and broadband lead the list of the lasting impacts of the pandemic

Which of the following possible postpandemic shifts do you believe will have a significant impact on infrastructure over the next three years? (Select all that apply).

Global average Region with the highest percentage of respondents citing each shift



Respondents expect infrastructure to become more digital, more cyber secure, and more ecofriendly

OW WILL INFRASTRUCTURE investment look different in the postpandemic era? Our respondents sent several strong signals:

A big commitment to digital: Respondents indicated that digital investments will be one of governments' top priorities. Almost 84% of respondents in Asia/Pacific (AP) expect digital infrastructure investments to increase, the highest percentage of any region.

Focus on cybersecurity: More digital activity brings more cybercrime. More than three-quarters of respondents expected greater focus on data security over the next three years.

Climate-friendly infrastructure: The environmental step respondents most expect is expansion in electric vehicle infrastructure followed by provision of incentives for renewable energy.

Today, even "hard" infrastructure increasingly entails a digital component.

FIGURE 4

Most respondents expect governments to focus more on data security, digital infrastructure, and electric vehicles

Governments are expected to take various steps over the next three years to achieve their postpandemic social, environmental, and economic infrastructure agendas. For each step below, do you expect the government to increase its efforts a lot, increase a little, stay about the same, decrease a little, or decrease a lot?

Steps to achieve postpandemic agendas (increase a little or increase a lot)	Global (%)	World region high	World region low
Invest to improve data security	76%	Asia/Pacific 91%	North America 70%
Shift toward digital infrastructure investments	70%	Asia/Pacific 84%	Latin America 65%
Expand the number of electric vehicle charging stations	63%	Asia/Pacific 75%	MEA 60%
Assign greater priority to integrated use of multiple transportation modes	63%	Europe 72%	MEA, NA 59%
Collaborate with the private sector	62%	Asia/Pacific 71%	North America 56%
Ensure reliable and affordable internet connectivity to all	62%	MEA 67%	Asia/Pacific 57%
Provide incentives for renewable energy	61%	Asia/Pacific 71%	Europe, LA 58%
Invest in urban public spaces for walking, cycling, socializing, and eating	60%	North America 67%	MEA 49%
Invest in infrastructure to boost economic growth and jobs	58%	Asia/Pacific, MEA 67%	North America 54%
Provide equitable access to mass transit and other services in underserved areas	56%	Asia/Pacific 67%	Latin America 53%
Invest in climate research	54%	Asia/Pacific 68%	North America 47%
Use environmental metrics to select investments and assess performance	52%	Asia/Pacific 64%	Europe, LA 48%
Change infrastructure plans to adapt to shifts in how people work, how they travel, and where they live	50%	Asia/Pacific 57%	Latin America 42%

Urban spaces: Being transformed through green alternative transportation

S MENTIONED EARLIER, one of the significant, lasting shifts respondents expect from the pandemic will be greater demand for multimodal transportation. Respondents did not expect people to leave cities but rather to look for better ways to live and travel within cities.

Helsinki has been a trendsetter in this area. It has been heavily focusing on the improvement of public transport and facilities for cycling, walking, and other alternative ways of mobility to reduce the usage of cars. There is also a service available for "mobility on demand" by meshing together a range of transportation options including buses, bikes, and driverless cars on one platform that can be used to order any trip through a smartphone.¹ Our survey suggests that other regions might be heading in this direction—about 60% of respondents globally said that they plan to invest in urban places for walking, cycling, socializing, and eating. "To improve the city's air quality and reduce congestion, we are investing in local street infrastructure to promote commuting by walk, cycle, and public transport."

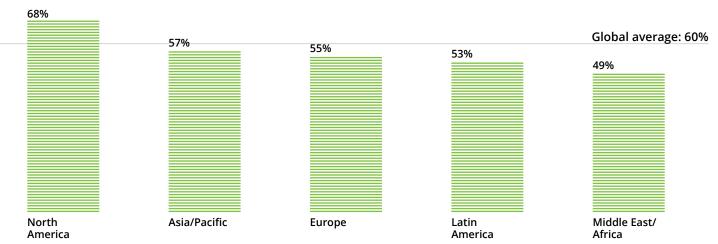
— UK city official

FIGURE 5

Investments in green transportation in cities are expected to increase, as per respondents

Governments are expected to take various steps over the next three years to achieve their postpandemic social, environmental, and economic infrastructure agendas. For each step below, do you expect the government to increase its efforts a lot, increase a little, stay about the same, decrease a little, or decrease a lot?





Which technologies will reshape infrastructure over the next three years?

FIGURE 6

NFRASTRUCTURE OFFICIALS IN our survey were clear about their top technology picks expected to reshape infrastructure—artificial intelligence (AI), cloud computing, and cybersecurity.

These technology choices highlight the shift from purely physical infrastructure to a hybrid of physical and digital. From power grids to roads, infrastructure is getting "smarter." This also means that it will likely hold more personal data and be more vulnerable to cybercrime.

The increasing use of AI, cloud, and digital technologies means public officials should strengthen their privacy and ethical use of data protocols. In the United States, at least eight states have appointed chief privacy officers, and in 2021, Georgia became the first state to name a chief cloud officer.²

"Our goal is to increase growth by incorporating new technology, such as artificial intelligence, to build climate-friendly city infrastructure."

— City manager, UK city

AI, cloud computing, and cybersecurity technologies are expected to have the most impact on infrastructure projects, according to respondents

From your perspective, which of the following technologies will have the largest impact on infrastructure plans over the next three years? Select up to five.

Technology	All	Developed countries	Low- and middle- income countries
Al/machine learning	55%	59%	43%
Cloud computing	53%	55%	50%
Cybersecurity technologies	49%	51%	41%
IoT/sensors/RFID technology	45%	46%	41%
Autonomous/electric vehicles	37%	41%	27%
Batteries and energy storage	34%	38%	23%
Distributed energy resources/smart grid	33%	36%	24%
Robotics and drones	33%	34%	31%
Biometrics	30%	32%	23%
Predictive analytics	30%	31%	27%
Blockchain	26%	28%	20%
5G	24%	25%	21%
Edge computing	18%	21%	9%
Digital twins	14%	15%	10%

Notes: Developed countries include Australia, Canada, Germany, Japan, Singapore, the United Kingdom, and the United States. Low- and middle-income countries include Brazil, Chile, Colombia, India, Indonesia, Kenya, Mexico, Qatar, Saudi Arabia, United Arab Emirates, and Uganda.

Globally, infrastructure is not adequately protected from cyberattacks

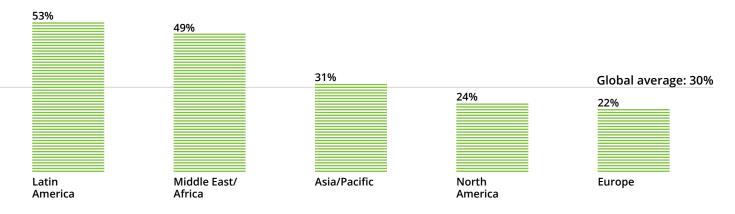
YBERATTACKS ON CRITICAL infrastructure can be dangerous and costly. From San Francisco's MUNI light rail system in 2016,³ to the shutdown of the Colonial Pipeline in 2021,⁴ attacks on essential infrastructure are rightly a big concern for many public officials.

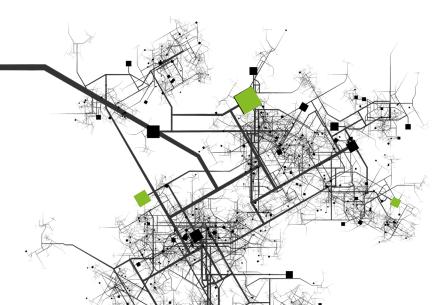
Even in the most economically advanced countries, about one in five respondents told us infrastructure is not adequately protected from cyberattacks. "Priority must be given to the digital infrastructure that will help with device connectivity, protocol translation, data filtering and processing, and security and management matters."

— Senior IT department official, Middle East

FIGURE 7

Many respondents across geographies expressed concerns around infrastructure safety from cyberattacks *Do you agree with the following statement? Our infrastructure is not adequately protected from cyberattacks.*





What do respondents say isn't going to change? The (sometimes burdensome) *process* of building infrastructure

UR RESPONDENTS INDICATED that they don't expect the way governments oversee the building of infrastructure to change muchmeaning some of the execution challenges around infrastructure projects are likely to continue.

Complex regulations and associated court challenges can significantly increase the costs and create long delays in the execution of infrastructure projects. Yet less than 8% respondents across regions said they expect regulations to be loosened a lot to make it easier to execute on projects.

Similarly, few respondents expect significant changes to contracting methods or a substantial increase in the involvement of the public in infrastructure decisions.

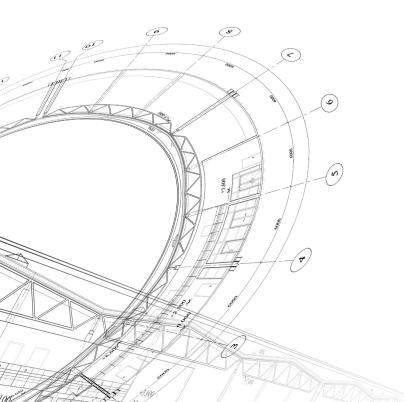


FIGURE 8

Respondents don't expect big changes in infrastructure execution

Governments are expected to take various steps over the next three years to achieve their postpandemic social, environmental, and economic infrastructure agendas. For each step below, do you expect the government to increase its efforts a lot, increase a little, stay about the same, decrease a little, or decrease a lot?

Efforts expected to increase a lot	Asia/Pacific	Europe	Latin America	Middle East/ Africa	North America
Use alternative contracting methods for infrastructure construction	11%	4%	3%	3%	8%
Involve the public in infrastructure decisions	9%	5%	7%	5%	5%
Loosen regulations to make it easier to execute on projects	8%	3%	5%	5%	3%

Source: Deloitte analysis.

Less than 8% across regions expect regulations to be loosened.

There is a backlog of infrastructure needs, especially in Middle East/Africa

LMOST FOUR IN 10 respondents say their localities have a backlog of investments needed to bring infrastructure to a good condition—a large proportion of world infrastructure. Middle East/Africa had the highest percentage of respondents reporting investment backlogs.

Investment backlogs can corrode existing assets leading to higher maintenance costs and higher chances of infrastructure failure. While new infrastructure projects tend to garner much media attention, governments should prioritize and publicize infrastructure maintenance efforts that can improve valuable infrastructure assets and lead to higher efficiency by avoiding future costs.

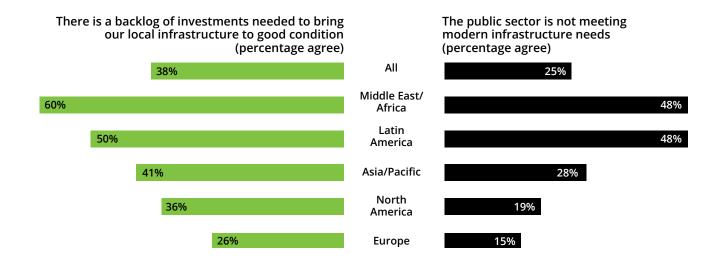
Almost 50% of respondents in Latin America and Middle East/Africa said the public sector is not meeting modern infrastructure needs compared with 28% of respondents in AP and less than 20% of respondents in Europe and North America.

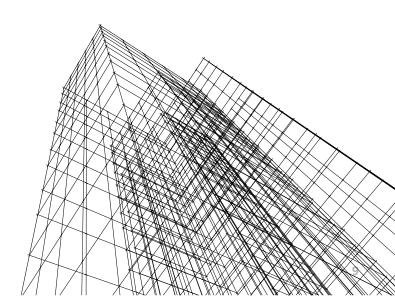
> Almost 50% of respondents in Latin America and Middle East/Africa said the public sector is not meeting modern infrastructure needs.

FIGURE 9

Middle East/Africa had the highest percentage of respondents reporting investment backlogs

Do you agree with the following statements?





Talent shortages were cited as the biggest obstacle to infrastructure over the next three years

UR SURVEY REVEALED an interesting finding: Respondents told us that a shortage of talent would be the biggest obstacle to implementing infrastructure projects—more than budget constraints or regulatory challenges.

When thinking of infrastructure talent, it is easy to think of construction workers. But today's infrastructure encompasses many more elements which require a far more diverse range of skills. Engineering and cyber skills could increasingly play a critical role in building infrastructure.

Budget constraints and data privacy risks are also big challenges to implementing infrastructure projects, survey respondents indicated. Recent events, including the Colonial Pipeline hack in the United States, have highlighted security vulnerabilities of infrastructure.

Another shortage that might impact infrastructure construction? Supplies. Supply chain costs (38%) and availability of materials (30%) were both cited by those surveyed as significant potential obstacles.

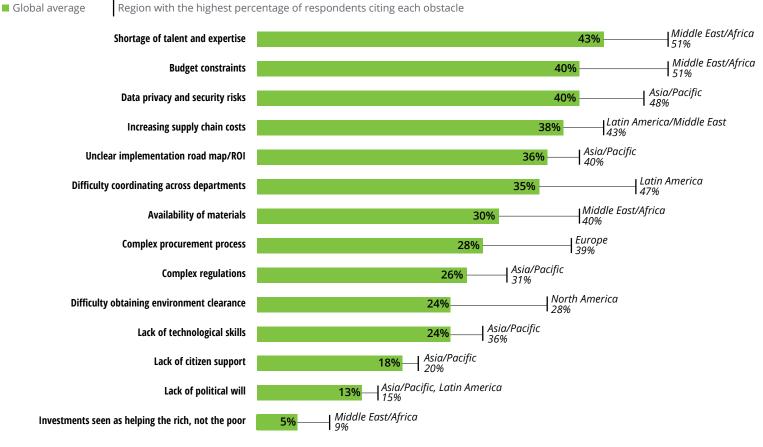
> "Certified cybersecurity professionals should be trained to meet the shortage of cybersecurity advisers."

CEO, New York-based telecoms company

FIGURE 10

Respondents cited talent shortage, budget constraints, data privacy risks, and supply chain costs as the biggest obstacles

Over the next three years, what do you expect to be the greatest obstacles in implementing the infrastructure projects that you are involved in? Select up to five.



Major measures to meet equity goals are not expected on the ground

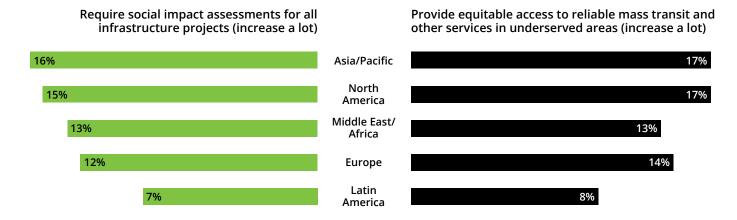
UR SURVEY RESPONDENTS did not reveal a strong consensus that significant steps will be taken to meet various equity goals. For example, respondents do not see a significant change in social impact assessments. Globally just 14% of respondents on average across regions said that social impact assessments will increase a lot, 35% said it will increase a little, and 49% expect it to stay the same.

Respondents don't expect significant changes to equitable access to mass transit, either. Just 15% on average expect efforts to provide equitable access to mass transit to increase a lot, 41% said it will increase a little, and 40% expect it to stay the same.

FIGURE 11

Few respondents expect a major increase in social impact assessment and changes to equitable mass transit

Governments are expected to take various steps over the next three years to achieve their postpandemic social, environmental, and economic infrastructure agendas. For each step below, do you expect the government to increase its efforts a lot, increase a little, stay about the same, decrease a little, or decrease a lot?



Source: Deloitte analysis.

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Eco-infrastructure: Respondents anticipate uptick in tax credits for renewables

HE SURVEY FOUND that a high percentage of respondents are expecting sizable increases in incentives for renewables, with more than 33% expecting that area to increase a lot in each region: on average 37% across regions expect tax credits to increase a lot.

However, our survey indicates that other actions are deemed less likely.

For example, although respondents expect demand for multimodal transportation to increase (see figure 3), they expect a limited response from government in this area. Just 13% in North America and 17% in Middle East/ Africa expect a significant shift ahead in terms of prioritizing mixed transportation modes (such as train to bus to bike).

On average, only 10% of respondents across regions expect efforts to incorporate environmental benefit metrics into investment selection to increase a lot. However, some banks are considering environmental compliance when making lending decisions-which means environmentally sustainable projects may have an easier time accessing private capital.

"Given the environmental consequences, renewable energy and digitization should be prioritized."

 Senior official, department of energy/ environment. Canadian province

FIGURE 12

Respondents largely expect governments to increase incentives for renewables

Governments are expected to take various steps over the next three years to achieve their postpandemic social, environmental, and economic infrastructure agendas. For each step below, do you expect the government to increase its efforts a lot, increase a little, stay about the same, decrease a little, or decrease a lot?

Efforts expected to increase a lot	Asia/Pacific	Europe	Latin America	Middle East/ Africa	North America
Shift to renewable energy, such as providing tax credits	45%	42%	33%	33%	33%
Invest in climate research	32%	28%	28%	20%	19%
Expand the number of electric vehicle charging stations	28%	13%	12%	9%	14%
Assign greater priority to integrated use of multiple transportation modes	23%	25%	15%	17%	13%
Incorporate environmental benefit metrics into investment selection and performance assessment	19%	5%	7%	12%	11%

Source: Deloitte analysis.

Infrastructure funding: Privatization and national government funding are leading global trends

OW WILL INFRASTRUCTURE be funded going forward? The short answer, seems to be "More of everything!" Respondents expect a wide array of funding approaches to increase in the next three years.

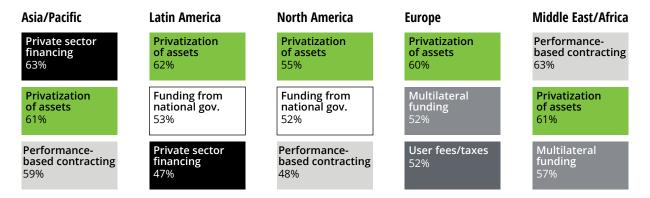
The approach most expected to increase across the globe, is privatization of assets.

Other financing techniques expected to rise include performance-based contracting, user fees, and multilateral and development funding.

FIGURE 13

Most respondents expect more infrastructure funding through privatization of assets and national government funds

For infrastructure projects you are involved with, do you think the following financing techniques will increase, decrease, or stay about the same over *the next three years?*



Most increasing by region

All financing techniques (globally)

58%	Privatization of assets	42%	Funding from local government
52%	Funding from national government	42%	Funding from state/regional government
51%	Performance-based contracting	39%	Government borrowing
46%	Multilateral funding	38%	Crowdfunding
45%	User fees/taxes	37%	Vendor financing
42%	Private sector equity	26%	Philanthropic support
42%	Private sector financing		

A fresh future for infrastructure

HE PANDEMIC HAS put a spotlight on infrastructure around the globe. It prompted new behaviors, including a substitution of online interaction instead of in-person. Remote work, telehealth, and online education are impacting infrastructure needs. Other global trends include:

- Increased investing from national governments
- Pandemic impacts to global travel and global supply chains
- A continued focus on environmentally sustainable, climate-sensitive infrastructure

Infrastructure will never be the same again. Every part of the infrastructure ecosystem—national and local governments, as well as private sector partners—will need to adjust.

Appendix on survey methodology

O HELP ILLUMINATE the future of infrastructure, in September 2021, Deloitte conducted a survey of 660 respondents from 18 countries across five regions, with the largest sample, 300, from the United States. These 660 total respondents included government officials and infrastructure executives, as well as a small sample of nonprofit and academic representatives (see figure 15 for respondents by sector).

Qualifying responses came from respondents who indicated that they are "very knowledgeable" or "knowledgeable" about infrastructure plans and investments in their geographic area. The respondents were focused on three broad areas—mobility and transportation; energy, water, and utilities; and digital infrastructure.

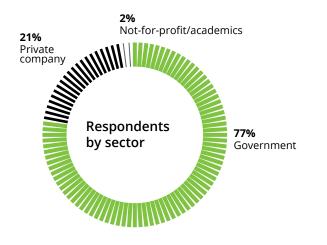
FIGURE 14

Countries surveyed

North America	3% Canada 45% United States	48%
Europe	7% Germany 13% United Kingdom	20%
Asia/Pacific	2% Australia 2% India 2% Indonesia 2% Japan 2% Singapore	11%
Middle East/Africa	3% Kenya 2% Saudi Arabia 2% Qatar 2% UAE 2% Uganda	11%
Latin America	2% Brazil 2% Colombia 2% Chile 2% Mexico	9%

FIGURE 15

Our survey respondents were spread across sectors



Source: Deloitte analysis.

FIGURE 16

Global respondents by infrastructure focus

Mobility and transportation	55%
Energy, water, and utilities	44%
Digital infrastructure	26%
Multiple/overall policy	5%

Source: Deloitte analysis.

FIGURE 17

Global public sector respondents by title

				349
Departm	ent of Transport	ation senior n	nanager+	
			24%	
Departm	ent of Energy/Er 11%	nvironment se	nior manager+	
Departm	ent of urban dev 8%	/elopment/pla	nning senior manag	ger+
Budget d	epartment senio 7%	or manager+		
Senior m 5%	anager+ commu	inications/pub	lic information	
Departm 4%	ent of infrastruc	ture senior ma	anager+	
Director 4%	of smart city init	iatives/techno	logy	
Departm 2%	ent of information	on technology	senior manager+	
Director 1%	of innovation			
Director 1%	of policy/strateg	ic initiatives		

Note: The "+" symbol denotes senior-level designations (including commissioner, director, and senior manager). Source: Deloitte analysis. The future of global Infrastructure: A survey of infrastructure trends

Endnotes

- 1. Randy Rieland, "Helsinki has a plan to get people to stop owning cars," *Smithsonian Magazine*, September 30, 2014.
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