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Climate-forward government

Seven important lessons for effective climate action

November 2021

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Bolder action on climate change urgently needed

In August 2021, the United Nations' Intergovernmental Panel on Climate Change (IPCC) released its sixth assessment report on climate change. This report represents perhaps the starkest warning yet for governments, businesses and society at large, warning us all to expect increasingly common extreme weather — heat waves, floods, droughts and more — in the coming decade.¹ UN Secretary General António Guterres calls it "a code red for humanity."²

After years of heated scientific and political debate around climate change, the scientific community has reached a near-total consensus on humanity's role.

The latest report unequivocally states that human activities and influence have warmed the atmosphere, ocean and land. It's one of many that have warned of an upcoming climate tipping point.

A warming planet implies severe economic consequences. According to recent research, the G7 countries could lose about 8.5% of their GDP annually within the next 30 years if temperatures rise by 2.6°C.³ Leaders around the world increasingly agree that now is the time to act.

This paper examines seven of the most important lessons learned to date for government agencies attempting to affect climate change.



Seven lessons for combating climate change

The urgency of the climate problem is compelling government agencies to seek out fresh perspectives on how to address what is becoming one of the defining crises of our time. But governments should not try to address climate change in a vacuum. With efforts around the world having met with varying levels of success, countries need to look to lessons learned. By examining effective climate actions worldwide, we've identified seven important lessons for today's leaders.

Figure 1



Source: Deloitte analysis

Lesson 1: Link climate goals with the mission

Climate change will alter the operational landscape for many agencies and may compel them to rethink entire programs. In the current environment, all government entities, federal, regional and local, must understand how climate affects their missions — and how their missions affect the climate. The key will be to act on climate change in a way that both aligns with and advances their mission objectives.

Consider, for example, a scenario in which a defense facility's power supplies are interrupted due to severe weather. Such outages impair mission readiness and can result in thousands of lost work hours as well as security vulnerabilities.

The US military has recognized this threat and taken steps to bolster its energy resilience by developing its own "microgrids," self-sufficient energy systems capable of functioning without connection to the main grid, as well as additional on-site power generation and other infrastructural upgrades. And while backup power previously relied on diesel generators, more recently the energy mix has shifted to include renewable solar photovoltaic (PV) energy and battery storage, which can strengthen resilience while reducing emissions.

To meet Department of Defense resilience goals for its infrastructure, each service branch has solicited solutions from the private sector through "industry days" and other forums, requests for information, and collaboration with energy companies. The services also have used third-party financing to fund energy improvements, thereby lowering the burden on appropriated funds. Innovative resilience initiatives include an energy battery storage system at the Naval Weapons Station in Seal Beach, California; a renewable energy microgrid at Joint Base Pearl Harbor-Hickam; and a biofuel power generation plant at Hawaii's Schofield Barracks.⁴



Lesson 2: Integrate climate governance actions inside and out

Agencies need governance models that can cope with the scale, scope and complexity of the problem. They must look at the challenge from the outside in, defining the effect they want to have on the broader world before tailoring initiatives to achieve it. And agency leaders must remember that the battle against climate change must be integrated: it needs an executive champion to guide the coordination of both interagency and intra-agency efforts.

Consider Australia's state of Queensland, whose government plays a vital role in reducing the energy industry's carbon footprint. Queensland once led Australian states in pollution reduction, but in recent years, the trend has reversed. Today, Queensland contributes 28% of the nation's emissions, more than any other Australian state.⁵

In the hope of returning Queensland to its former status as a carbon-cutting leader, the state's Department of Resources has begun using a sophisticated decision-making tool to conduct comparative analyses of various abatement options.

This "marginal abatement cost curve" (MACC) tool compares the costs and promise of each potential strategy, weighing its cost against its potential for reducing emissions, based on variables including energy price fluctuations, carbon pricing and capital and operational costs.⁶ With this information, Queensland can determine which policies will help its energy sector make the biggest cuts in emissions while remaining cost-competitive in Australia and internationally. This type of analysis is essential to effective decision-making within an agency's climate agenda.

Integrated efforts are important at the local level as well. In May 2021, the Miami-Dade County government appointed Jane Gilbert as the world's first municipal chief heat officer. Gilbert will chair a task force charged with such initiatives as the creation of the county's first comprehensive heat plan.⁷ A few months later, Athens, Greece, followed suit with the appointment of Eleni Myrivili as Europe's first chief heat officer.⁸

Myrivili will focus on raising awareness, improving the city's green spaces and shade cover, and protecting the elderly and the poor from extreme heatwaves. She will be coordinating a broader ecosystem including municipal departments, the private sector, health care providers, academia and community organizations.⁹

As the focus on climate change increases, cities and regions can develop governance and leadership models focused on key areas such as a sea-level rise, air pollution, the availability of clean water and much more. These new governance models must reflect the problem's scale and complexities — and the degree of coordination required for a concerted response. They should treat government as a component of a broader community, integrating agency efforts across government while always considering the effect of their initiatives on society.

Lesson 3: Take a more innovative approach to innovation

As the World Economic Forum observes, "The only way to get ahead of a crisis as large as climate change is through groundbreaking technological innovation in clean energy and low-carbon technologies. And that, in turn, will likely require efforts to mitigate investment risks for private sector actors, who cannot be expected to ignore their bottom lines." The journey will be challenging and will require the public and private sectors to make it together.

Government agencies should use their authority and resources to promote disruptive technologies and innovative financing partnerships. It will require innovations in supply, demand and the meshing of both.

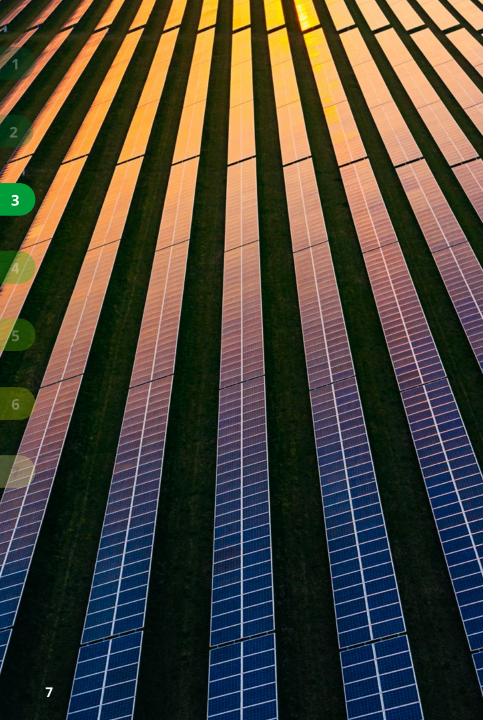
Historically, agencies and multilateral organizations have focused their efforts on the supply side of the equation. Since its inception in 2010, the Green Climate Fund (GCF), a part of the UN Framework Convention on Climate Change, has committed \$10 billion in funding to developing nations for mitigation and adaptation initiatives and has a project pipeline worth \$37.2 billion.¹¹

But it's not simply a question of higher R&D investment; agencies should encourage industry to pursue breakthrough technologies. The need is clear. In June 2020, the International Energy Agency reported that just 6 of 46 energy technologies and sectors were on track to meet global commitments enshrined in the 2015 Paris climate agreement.¹² To address this gap, the GCF has created the Private Sector Facility (PSF) to fund and mobilize partners such as institutional investors and financial institutions. In Guatemala and Mexico, for instance, the GCF and Inter-American Development Bank are supporting financing for farmers who make climate-smart investments.¹³

It's important that governments continue to foster innovation from the supply side. The European Commission has set aside \$23.1 billion for funding between 2020-2030 to fund innovations in low-carbon technologies.¹⁴ The resulting breakthroughs are likely to disrupt the status quo but might not be enough.

To maximize the chances for successful innovation, agencies should consider regulatory requirements, industry economics and all the other hurdles new technologies and entrants are sure to encounter. This calls for a demand-side approach.





One obvious target is purchasing. Government procurement has the power to make or break industries: according to the World Bank, government procurement totaled \$11 trillion in 2018, almost 30 times the amount of global venture capital funding.¹⁵ In the case of climate, it can create and support new growth sectors.

Canada intends to use its purchasing power to drive the transition to net-zero emissions and climate-resilient operations. It plans to overhaul its light-duty vehicle fleet by buying zero-emission vehicles (ZEVs) and hybrids, aiming to have ZEVs comprising 80% of its fleet by 2030. It also wants to build net-zero climate resiliency into government real estate by retrofitting old federal buildings and leasing only net-zero-compliant real estate as well as purchase and produce only 100% clean electricity by 2025. These aggressive targets can help catalyze demand for climate innovations.

Agencies should begin with the end in mind and work backwards through the range of possible challenges. They need to ask what would have to happen to make the technology succeed in the marketplace and how the agency can help.

The answers could involve helping an innovator develop a go-to-market strategy that addresses stakeholder concerns; developing exit strategies that match innovators with funders or acquirers; or identifying and eliminating regulatory hurdles in the government procurement process.

Overcoming the valley of death

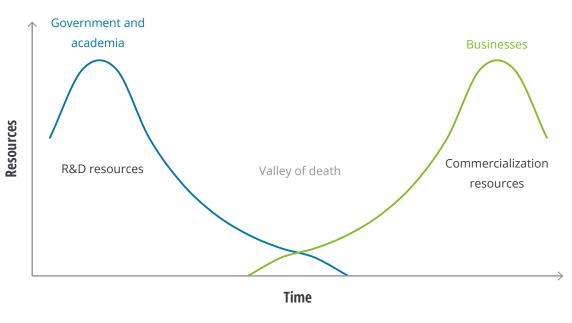
the marketplace. The treacherous gap has been dubbed the "valley of death" — the period between product development and commercialization, when private investment can be scarce (Figure 2).¹⁷ This problem has been exacerbated by a reliance on government-funded and academic research rather than corporate R&D.¹⁸

Any new technology must traverse the valley of death to enter commercial use. Universities and government agencies recognize the problem but haven't solved it yet. Difficulties at this stage often are ascribed to misaligned incentives for government and a risk-reward profile too poor to justify business investment.¹⁹

Improving governmental technology transfer processes will require meshing the traditional supply-side "push" mindset with demand-side "pull" strategies. This, in turn, would require commercialization conversations and industry input early in the R&D process.

One of the GCF fund's key objectives is to boost innovation in climate-related technologies. In July 2021, for example, the GCF and the Korean Development Bank launched a \$1.2 million grant to support technology innovators working on low carbon and climate-resilient solutions during the path to commercialization.²⁰

The "valley of death" between the lab and commercialization



Source: Deloitte analysis

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Lesson 4: Don't just identify climate risks; manage and reduce them

As the effects of climate change become increasingly visible in extreme weather events, climate risk disclosure is gaining momentum worldwide. But it's not enough to identify and disclose risks; governments must manage the risks they identify, both the preventable and the unavoidable. Fortunately, new tools and techniques give agencies unprecedented abilities to avoid certain climate-related risks and reduce harm when the risks are unavoidable.

Cloud computing power and sophisticated AI/ machine-learning algorithms, for instance, can improve our ability to parse weather data. This could help a government decide where not to build, for instance, or whether to adapt an existing site to accommodate the effects of climate change — or retreat to higher ground.

Digital twins — digital simulations of physical systems, assets or processes — can help agencies consider different strategies in a variety of climate-change scenarios, exploring risk reduction as well as social and equity impacts. For instance, agencies can use digital-twin modeling to plan life-saving evacuation routes for extreme weather events or determine which coastal infrastructure is at greatest risk from rising sea levels.

In the European Union's "Destination Earth" initiative, scientists are creating a detailed digital twin of the entire planet to study climate development and forecast extreme weather events more accurately.²¹

Digital twins also can provide key insights for cities in their fight against global warming. Singapore's government is building a "Digital Urban Climate Twin" of the city to help planners determine how factors such as traffic, vegetation and geography affect outdoor temperatures, allowing it to develop viable solutions for hotter times.²²

And such tools can help governments find the best returns for risk-reduction projects, given inevitable limitations on time and resources. The analysis could reveal, for example, that spreading a budget across numerous smaller projects could reduce risks more effectively than a single major initiative.



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Lesson 5: Overturn orthodoxies to enhance operational sustainability

Many governments have struggled to make large-scale, nationwide transformations to address climate change. For instance, agencies have tried for years to nudge people to use more sustainable mobility options such as public transport, carpools, electric vehicles and bicycles. Similarly, various governments have subsidized purchases of hybrid and electric vehicles and installed plug-in parking spots.

But these efforts can't compare with the potential gains associated with radically reducing the number of commuters. This was made amply clear in 2020, when the pandemic-induced economic slowdown and lockdowns reduced global emissions by 7% (or nearly 2.4 billion tons of CO2) compared to 2019. But carbon emissions are expected to return to normal levels — and beyond — as economic activities resume globally.²³

COVID-19 has shown, however, that work can largely continue in a virtual environment. In many cases, remote work may become a permanent fixture of the new normal. In a recent IPSOS-World Economic Forum global survey, about two-thirds of survey respondents wanted employers to allow more flexible working options in the future.²⁴ Such order-of-magnitude changes might be essential if the world is to meet its climate goals.

Progress will require governments to reject existing orthodoxies that tend to separate climate initiatives from the central mission.

This can be seen in Canada's Department of National Defense (DND), which is focused on reducing its carbon footprint and evolving environmentally sustainable operations even though it is exempt from the country's federal greenhouse gas (GHG) reduction targets. In 2017, it launched a Defense Energy and Environment Strategy to improve energy efficiency across defense agencies. Since the launch of the plan, about 75% of all electricity used at Canadian military bases comes from clean energy sources, and 27% of DND's light vehicles now run on hybrid or electric technology.²⁵

Such examples illustrate the potential power of overturning traditional practice.²⁶ It's not easy to change from "the way we've always done things." Bold goals can stretch people's thinking but challenging that thinking in the details is also useful.



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Lesson 6: Focus on equity as a principle, not a byproduct

Although the impacts of climate change will be felt globally, they won't be experienced equally. Climate change poses its greatest threat to those who have the fewest resources to counter it. For instance, shifting monsoon patterns may affect the poorest farmers in developing nations the most. Rising sea levels will likely have the biggest impact on vulnerable populations in coastal towns and cities.²⁷

The world's small island developing states, for instance, are spread across ocean regions. They account for less than 1% of GHG emissions but are the most vulnerable to rising sea levels.²⁸ The latest IPCC assessment notes that sea-level rise will continue to threaten these islands with coastal inundation and increased saltwater intrusion into natural aquifers.²⁹

Considerable effort has gone toward addressing climate change and building sustainable development models in these nations. Barbados, for example, has set an ambitious target of transitioning to 100% renewable energy sources and reaching the target of net-zero carbon emissions by 2030.³⁰ Such efforts generally promote economic diversification, energy independence, sustainable tourism models and increasing benefits from the stewardship of ocean resources.

But a sudden pivot to a "green" economy can create uncertainty in traditional industries. The International Labour Organization has estimated that the global shift to a greener economy could create more than 18 million new jobs by 2030 — but eliminate 6 million jobs in the coal-powered electricity and petroleum sectors.³¹ For this reason, long-term strategies to decarbonize should be accompanied by effective economic diversification strategies.

Germany's Ruhr region, for instance, was bustling in the 1950s, primarily due to coal mining and heavy industry. Over the decades, as the coal industry has been phased out, employment in the sector has dwindled from a high of nearly half a million to a few thousand by 2018. But this shift has been relatively smooth in the region due to a decentralized but inclusive engagement strategy with unions and workers.³²

Dialogue with affected parties and a comprehensive package for affected miners was only a part of the transition strategy. It also focused on reshaping the local economy through targeted public investments in infrastructure, transportation, tourism and education. By 2014, the Ruhr was home to 22 universities with more than 250,000 students, helping to build a local knowledge-based economy.³³



Lesson 7: Find partners to fix the ecosystem

Climate change poses challenges too big for any single agency to tackle on its own; it will likely require joint action across agencies and with the private sector. This coordination can help ensure that each agency's actions complement and reinforce those taken by others.

Of course, national agencies aren't the only stakeholders concerned about climate change. Regional, local and international governments, corporations, academia and private citizens all have important roles to play. By building collaborative public-private ecosystems, agencies can unlock vast stores of shared knowledge and resources while ensuring the broader community supports their actions.

This will require agencies to decide where it makes sense for them to lead on climate change and where they might make a bigger impact by supporting the private sector. Consider the unique Coral Reef insurance project in Mexico. The Mexican state government of Quintana Roo, with the support from the nonpofit Nature Conservancy, has partnered with Swiss Re, a global insurance company, to launch the world's first insurance solution designed to help conserve the Mesoamerican Reef off the coast of Mexico's Yucatan peninsula.

This reef is vitally important to the Yucatan's ecological and economic survival, yet the rising severity and frequency of hurricanes are damaging it at unprecedented levels. Damaged reefs can lead to beach erosion that in turn threatens tourism, the region's key source of income.

The insurance plan is designed to trigger automatically in the event of a strong hurricane. Payout amounts aren't based on actual reef damage but on the storm's wind speed; the stronger the storm speed, the higher the payout. This approach allows funds to be disbursed more quickly, allowing reef restoration to begin as soon as possible.³⁴ In October 2020, Hurricane Delta triggered the first payout of about \$850,000.³⁵



Ultimately, government agencies must decide which of the following roles they should play in each action on the climate agenda, within their scope of influence:

- **Integrators** build and sustain the ecosystem, creating processes and platforms that allow multiple participants to collaborate effectively.
- Problem solvers develop actual solutions to specific challenges.
- **Enablers** provide ecosystem members with critical resources such as skills training, data and funding.
- **Motivators** create incentives to spur innovation, including tax credits, public recognition, grants and supportive infrastructure.
- **Conveners** assemble diverse sets of partners to collaborate via conferences, taskforces, hackathons, crowdsourcing and other tools.

The five roles are by no means mutually exclusive. In many cases, agencies may choose to fill multiple roles simultaneously.



<u>To learn more about the five roles, see Catalyzing public sector innovation: Defining your role in the innovation ecosystem.</u>

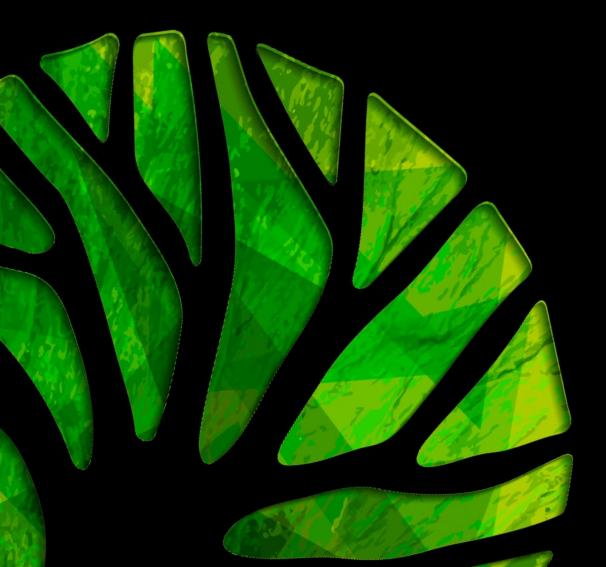
Government roles in an ecosystem



Source: Deloitte analysis

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Looking ahead



To address the challenge of climate change, leaders across all parts of government should embrace new approaches. The lessons in this article can provide a starting point for powerful, integrated action that is sustained and broad-based — and befitting a situation requiring major breakthroughs. No agency can do it alone; no one nation can do it alone. All the players must be willing to work together.

While some may question whether others will make the efforts needed for the long haul, the lessons presented here should help foster trust. They can help manage complexity and the need for disruption, reducing risks while embracing equity and interdependence. Perhaps most encouragingly, these lessons can weave a focus on climate into the very fabric of each agency's mission and operations. That focus will provide the best foundation for long-term trust. If their plans are executed well, agencies can build a self-sustaining focus on climate and contribute to a more sustainable planet.

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