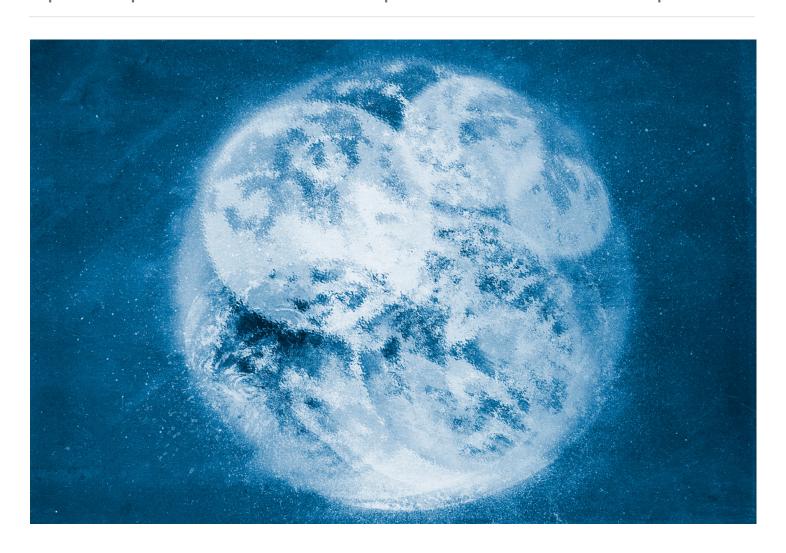


The Global Risks Report 2019 14th Edition

In partnership with Marsh & McLennan Companies and Zurich Insurance Group



Executive Summary

Is the world sleepwalking into a crisis? Global risks are intensifying but the collective will to tackle them appears to be lacking. Instead, divisions are hardening. The world's move into a new phase of strongly state-centred politics, noted in last year's Global Risks Report, continued throughout 2018. The idea of "taking back control" whether domestically from political rivals or externally from multilateral or supranational organizations resonates across many countries and many issues. The energy now expended on consolidating or recovering national control risks weakening collective responses to emerging global challenges. We are drifting deeper into global problems from which we will struggle to extricate ourselves.

During 2018, macroeconomic **risks** moved into sharper focus. Financial market volatility increased and the headwinds facing the global economy intensified. The rate of global growth appears to have peaked: the latest International Monetary Fund (IMF) forecasts point to a gradual slowdown over the next few years. This is mainly the result of developments in advanced economies, but projections of a slowdown in China—from 6.6% growth in 2018 to 6.2% this year and 5.8% by 2022—are a source of concern. So too is the global debt burden, which is significantly higher than before the global financial crisis, at around 225% of GDP. In addition, a tightening of global financial conditions has placed particular strain on countries that built up dollar-denominated liabilities while interest rates were low.

Geopolitical and geo-economic tensions are rising among the world's major powers. These tensions represent the most urgent global risks at present. The world is

evolving into a period of divergence following a period of globalization that profoundly altered the global political economy. Reconfiguring the relations of deeply integrated countries is fraught with potential risks, and trade and investment relations among many of the world's powers were difficult during 2018. Against this backdrop, it is likely to become more difficult to make collective progress on other global challenges—from protecting the environment to responding to the ethical challenges of the Fourth Industrial Revolution. Deepening fissures in the international system suggest that systemic risks may be building. If another global crisis were to hit, would the necessary levels of cooperation and support be forthcoming? Probably, but the tension between the globalization of the world economy and the growing nationalism of world politics is a deepening risk.

Environmental risks continue to dominate the results of our annual Global Risks Perception Survey (GRPS). This year, they accounted for three of the top five risks by likelihood and four by impact. Extreme weather was the risk of greatest concern, but our survey respondents are increasingly worried about environmental policy failure: having fallen in the rankings after Paris, "failure of climate-change mitigation and adaptation" jumped back to number two in terms of impact this year. The results of climate inaction are becoming increasingly clear. The accelerating pace of biodiversity loss is a particular concern. Species abundance is down by 60% since 1970. In the human food chain, biodiversity loss is affecting health and socioeconomic development, with implications for well-being, productivity, and even regional security.

¹ International Monetary Fund (IMF). 2018. World Economic Outlook, October 2018: Challenges to Steady Growth. Washington, DC: IMF. https://www.imf.org/en/publications/weo

Technology continues to play a profound role in shaping the global risks landscape. Concerns about data fraud and cyber-attacks were prominent again in the GRPS, which also highlighted a number of other technological vulnerabilities: around two-thirds of respondents expect the risks associated with fake news and identity theft to increase in 2019, while three-fifths said the same about loss of privacy to companies and governments. There were further massive data breaches in 2018, new hardware weaknesses were revealed, and research pointed to the potential uses of artificial intelligence to engineer more potent cyberattacks. Last year also provided further evidence that cyber-attacks pose risks to critical infrastructure, prompting countries to strengthen their screening of cross-border partnerships on national security grounds.

The importance of the various structural changes that are under way should not distract us from the human side of global risks. For many people, this is an increasingly anxious, unhappy and lonely world. Worldwide, mental health problems now affect an estimated 700 million people. Complex transformations societal, technological and work-related—are having a profound impact on people's lived experiences. A common theme is psychological stress related to a feeling of lack of control in the face of uncertainty. These issues deserve more attention: declining psychological and emotional wellbeing is a risk in itself—and one that also affects the wider global risks landscape, notably via impacts on social cohesion and politics.

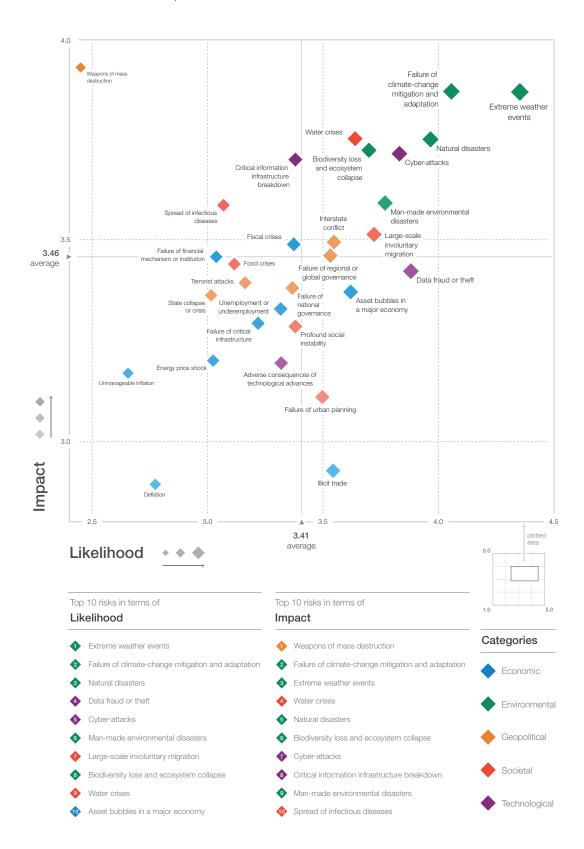
Another set of risks being amplified by global transformations relate to biological pathogens. Changes in how we live have increased the risk of a devastating outbreak occurring naturally, and emerging technologies are making it increasingly easy for new biological threats to be manufactured and released either deliberately or by accident. The world is badly under-prepared for even modest biological threats, leaving us vulnerable to potentially huge impacts on individual lives, societal well-being, economic activity and national security. Revolutionary new biotechnologies promise miraculous advances, but also create daunting challenges of oversight and control—as demonstrated by claims in 2018 that the world's first genemodified babies had been created.

Rapidly growing cities and ongoing effects of climate change are making more people vulnerable to rising sea levels. Two-thirds of the global population is expected to live in cities by 2050 and already an estimated 800 million people live in more than 570 coastal cities vulnerable to a sea-level rise of 0.5 metres by 2050. In a vicious circle. urbanization not only concentrates people and property in areas of potential damage and disruption, it also exacerbates those risksfor example by destroying natural sources of resilience such as coastal mangroves and increasing the strain on groundwater reserves. Intensifying impacts will render an increasing amount of land uninhabitable. There are three main strategies for adapting to rising sea-levels: (1) engineering projects to keep water out, (2) naturebased defences, and (3) peoplebased strategies, such as moving households and businesses to safer ground or investing in social capital to make flood-risk communities more resilient.

In this year's **Future Shocks** section, we focus again on the potential for threshold effects that

could trigger dramatic deteriorations and cause cascading risks to crystallize with dizzying speed. Each of the 10 shocks we present is a "what-if" scenario—not a prediction, but a reminder of the need to think creatively about risk and to expect the unexpected. Among the topics covered this year are quantum cryptography, monetary populism, affective computing and the death of human rights. In the Risk Reassessment section. experts share their insights about how to manage risks. John Graham writes about weighing the trade-offs between different risks, and András Tilcsik and Chris Clearfield write about how managers can minimize the risk of systemic failures in their organizations. And in the **Hindsight** section, we revisit three of the topics covered in previous reports: food security, civil society and infrastructure investment.

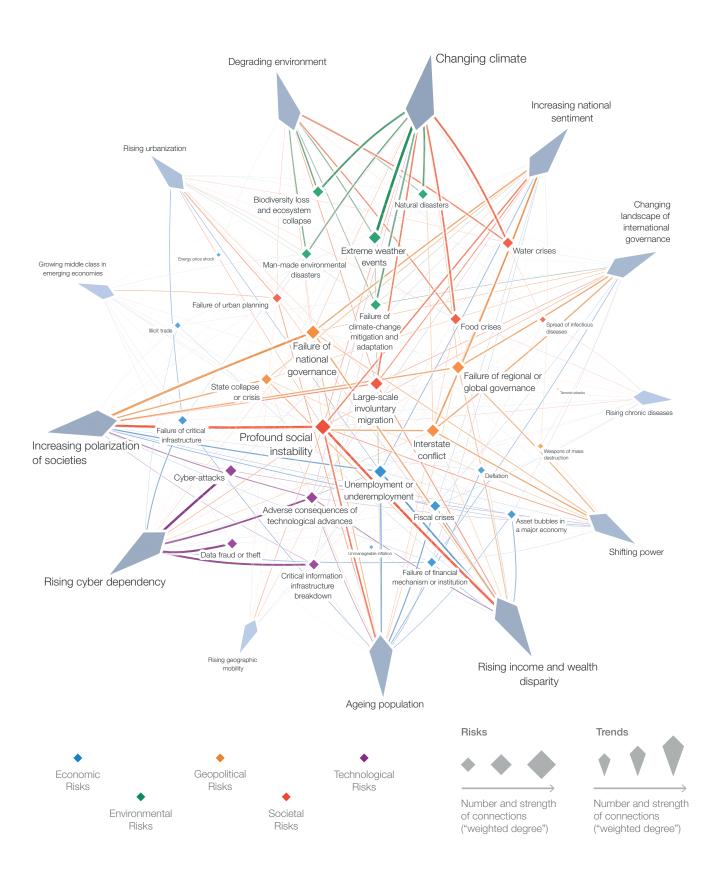
Figure I: The Global Risks Landscape 2019



Source: World Economic Forum Global Risks Perception Survey 2018–2019.

Note: Survey respondents were asked to assess the likelihood of the individual global risk on a scale of 1 to 5, 1 representing a risk that is very unlikely to happen and 5 a risk that is very likely to occur. They also assess the impact on each global risk on a scale of 1 to 5 (1: minimal impact, 2: minor impact, 3: moderate impact, 4: severe impact and 5: catastrophic impact). See Appendix B for more details. To ensure legibility, the names of the global risks are abbreviated; see Appendix A for the full name and description.

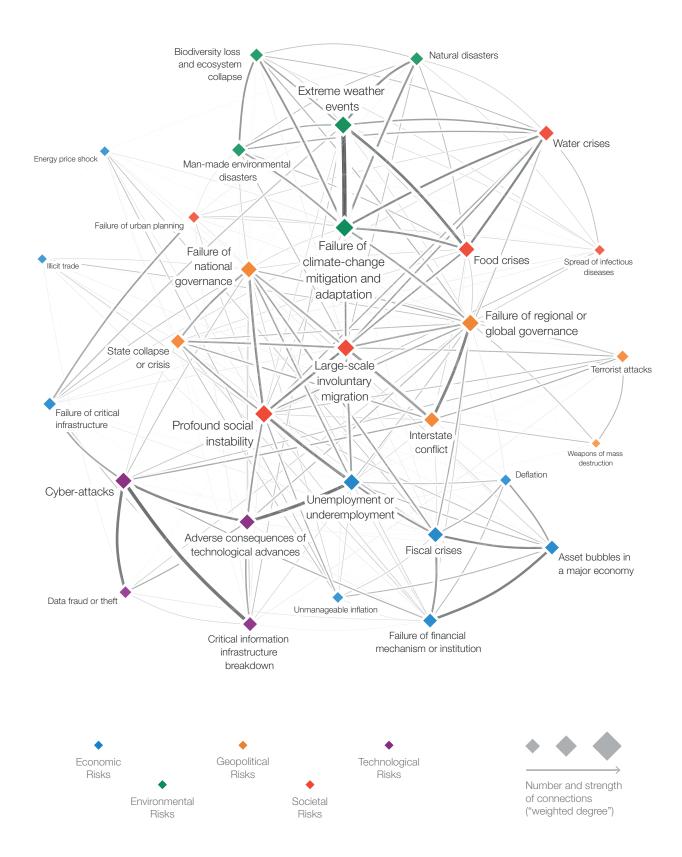
Figure II: The Risks-Trends Interconnections Map 2019



Source: World Economic Forum Global Risks Perception Survey 2018–2019.

Note: Survey respondents were asked to select the three trends that are the most important in shaping global development in the next 10 years. For each of the three trends identified, respondents were asked to select the risks that are most strongly driven by those trends. See Appendix B for more details. To ensure legibility, the names of the global risks are abbreviated; see Appendix A for the full name and description.

Figure III: The Global Risks Interconnections Map 2019



Source: World Economic Forum Global Risks Perception Survey 2018–2019.

Note: Survey respondents were asked to select up to six pairs of global risks they believe to be most interconnected. See Appendix B for more details. To ensure legibility, the names of the global risks are abbreviated; see Appendix A for the full name and description.

Figure IV: The Evolving Risks Landscape, 2009 - 2019

То	o 5 Global Risks	Top 5 Global Risks in Terms of Likelihood	poor								
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
1st	Asset price collapse	Asset price collapse	Storms and cyclones	Severe income disparity	Severe income disparity	Income disparity	Interstate conflict with regional consequences	Large-scale involuntary migration	Extreme weather events	Extreme weather events	Extreme weather events
2nd	Slowing Chinese economy (<6%)	Slowing Chinese economy (<6%)	Flooding	Chronic fiscal imbalances	Chronic fiscal imbalances	Extreme weather events	Extreme weather events	Extreme weather events	Large-scale involuntary migration	Natural disasters	Failure of climate-change mitgation and adaptation
3rd	Chronic disease	Chronic disease	Corruption	Rising greenhouse gas emissions	Rising greenhouse gas emissions	Unemployment and underemployment	Failure of national governance	Failure of climate-change mitgation and adaptation	Major natural disasters	Cyber-attacks	Natural disasters
4th	Global governance gaps	Fiscal crises	Biodiversity loss	Cyber-attacks	Water supply crises	Climate change	State collapse or crisis	Interstate conflict with regional consequences	Large-scale terrorist attacks	Data fraud or theft	Data fraud or theft
9th	Retrenchment from globalization	Global governance gaps	Climate change	Water supply crises	Msmanagement of population	Cyber-attacks	High structural unemployment or underemployment	Major natural catastrophes	Massive incident of data fraud/theft	Failure of climate-change mitigation and adaptation	Cyber-attacks

Top 5 Global Risks in Terms of Impact

	ıass	Φ	her		ers
2019	Weapons of mass destruction	Failure of climate-change mitigation and adaptation	Extreme weather events	Water crises	Natural disasters
2018	Weapons of mass destruction	Extreme weather events	Natural disasters	Failure of climate-change mitigation and adaptation	Water crises
2017	Weapons of mass destruction	Extreme weather events	Water crises	Major natural disasters	Failure of climate-change mitigation and adaptation
2016	Failure of climate-change mitgation and adaptation	Weapons of mass destruction	Water crises	Large-scale involuntary migration	Severe energy price shock
2015	Water crises	Rapid and massive spread of infectious diseases	Weapons of mass destruction	Interstate conflict with regional consequences	Failure of climate-change mitigation and adaptation
2014	Fiscal crises	Climate change	Water crises	Unemployment and underemployment	Critical information infrastructure breakdown
2013	Major systemic financial failure	Water supply crises	Chronic fiscal imbalances	Diffusion of weapons of mass destruction	Failure of climate-change mitigation and adaptation
2012	Major systemic financial failure	Water supply crises	Food shortage crises	Chronic fiscal imbalances	Extreme volatility in energy and agriculture prices
2011	Fiscal crises	Climate change	Geopolitical conflict	Asset price collapse	Extreme energy price volatility
2010	Asset price collapse	Retrenchment from globalization (developed)	Oil price spikes	Chronic disease	Fiscal crises
2009	Asset price collapse	Retrenchment from globalization (developed)	Oil and gas price spike	Chronic disease	Fiscal crises
	1st	2nd	3rd	4th	5th

Economic Environmental Geopolitical Societal Technological

Source: World Economic Forum 2009–2019, Global Risks Reports.

Note: Global risks may not be strictly comparable across years, as definitions and the set of global risks have evolved with new issues emerging on the 10-year horizon. For example, cyberattacks, income disparity and unemployment entered the set of global risks may not be strictly comparable across years, as definitions and the set of global risks and then as a trend in the 2015 and 2016 Global Risks were reclassified: water crises and rising income disparity were re-categorized first as societal risks and then as a trend in the 2015 and 2016 Global Risks were reclassified: water crises and rising income disparity were re-categorized first as societal risks and then as a trend in the 2015 and 2016 Global Risks Reports, respectively.



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