

The Global Risks Report 2017

Luxembourg Association of Risk Managers

Aengus Collins | 03.07.2017



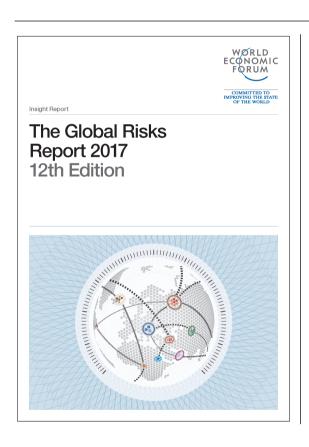
- 1. An overview of our approach
- 2. Headline risk perception results
- 3. Two thematic deep-dives
- 4. Looking ahead to 2018



An overview of our approach

Our current framework





- The Global Risks Report
 - Annual since 2006
 - Partners: Zurich Insurance; Marsh & McLennan
- An annual snapshot of global risk perceptions
 - Likelihood
 - Impact
 - Interconnections
 - Drivers
- A series of articles on risks (or broad areas) of concern
 - More scope for nuanced discussion, particularly with regard to complexity, uncertainty and ambiguity
 - This year we focused on:
 - social/political challenges
 - emerging technologies



- Asset bubbles in a major economy
- Deflation in a major economy
- Failure of a major financial mechanism or institution
- Failure/shortfall of critical infrastructure
- Fiscal crises in key economies
- High structural unemployment or underemployment
- Illicit trade (e.g. illicit financial flow, tax evasion, human trafficking, organized crime, etc.)
- Severe energy price shock (increase or decrease)
- Unmanageable inflation



- Failure of urban planning
- Food crises
- Large-scale involuntary migration
- Profound social instability
- Rapid and massive spread of infectious diseases
- Water crises



- Extreme weather events (e.g. floods, storms, etc.)
- Failure of climate-change mitigation and adaptation
- Major biodiversity loss and ecosystem collapse
- Major natural disasters (e.g. earthquake, tsunami)
- Man-made environmental disasters (e.g. oil spills)



- Failure of national governance
- Interstate conflict with regional consequences
- Failure of regional or global governance
- Large-scale terrorist attacks
- State collapse or crisis (e.g. civil conflict, military coup)
- Weapons of mass destruction



- Adverse consequences of technological advances
- · Breakdown of critical information infrastructure
- Large-scale cyberattacks
- Massive incident of data fraud/theft

The 13 trends driving the global risk landscape

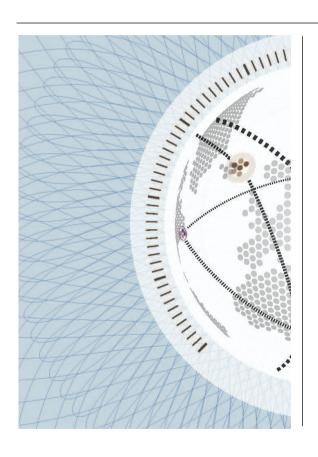


- Ageing population
- Changing landscape of international governance
- Changing climate
- Degrading environment
- Growing middle class in emerging economies
- Increasing national sentiment
- Increasing polarization of societies

- Rising chronic diseases
- Rising cyber dependency
- Rising geographic mobility
- Rising income and wealth disparity
- Rising urbanization
- Shifting power

Thinking beyond individual risks





Isolated

Individual risks

Typically assessed for likelihood and impact

Connected

Risk interconnections and drivers

Opens up consideration of cascading risks

Complex

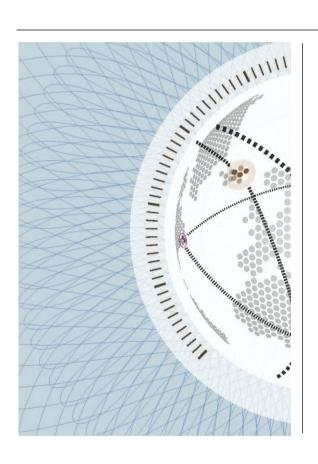
Uncertainty, feedback loops, tipping points, spillovers, trade-offs, etc

Systems as more than the sum of their parts

The global financial crisis and the UK's vote to leave the EU serve as useful illustrations of some of these complexity dynamics

Potential blind spots





- 1. Static processes
- 2. Weak signals
- 3. "In the day of prosperity, adversity is forgotten"



Headline risk perception results

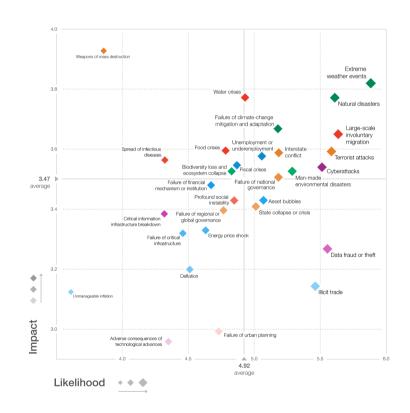
Individual risks: environmental concerns moving to the forefront



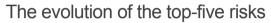
Risks assessed by likelihood and impact over a 10-year horizon

Top five by likelihood		
1	Extreme weather events	
2	Large-scale migration	
3	Major natural disasters	
4	Terrorist attacks	
5	Massive data breach	

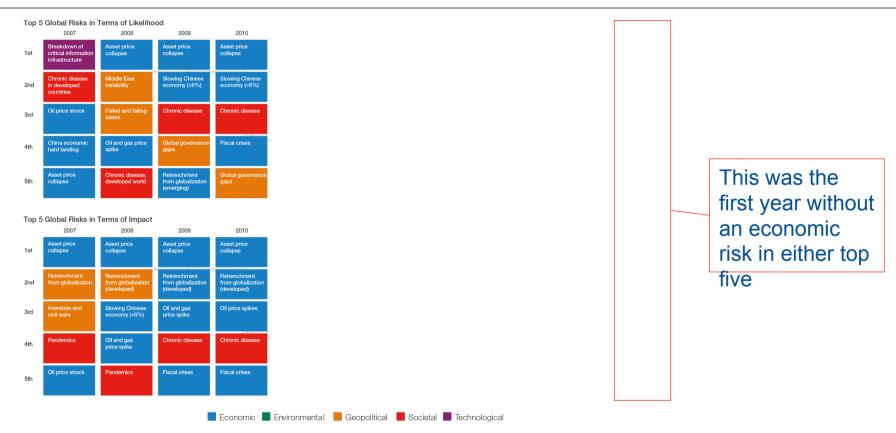
Top five by impact		
1	Weapons of mass destruction	
2	Extreme weather events	
3	Water crises	
4	Major natural disasters	
5	Failure of climate-change response	



On the face of it, economic risks have faded





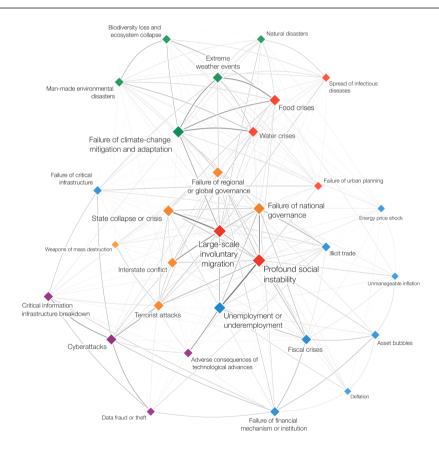


But looking at the interconnections reveals economic concerns



The most frequently cited risk interconnections

Top five risk interconnections		
1	 Unemployment Social instability	
2	Involuntary migrationState collapse or crisis	
3	Failure of climate-change responseWater crises	
4	Failure of national governanceSocial instability	
5	Interstate conflictInvoluntary migration	

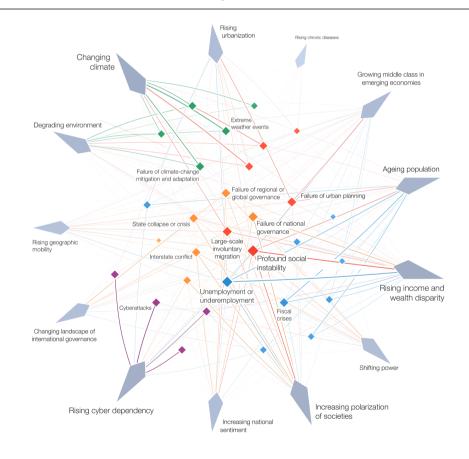


Inequality has overtaken climate change as the key driver



The trends expected to drive global events over the next 10 years

Top five trends driving developments 1 Rising income and wealth disparity 2 Changing climate 3 Increasing polarization 4 Rising cyber dependency 5 Ageing population





Two thematic deep dives

Three chapters on emerging technologies

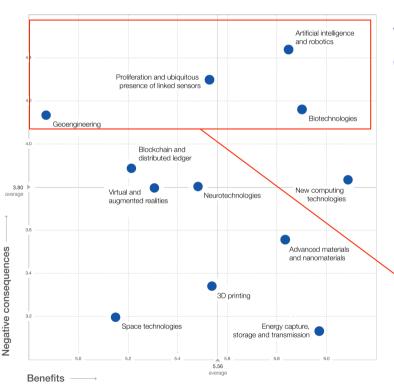


- 1. Understanding the Technology Risks Landscape
 - Blind spots, pace of change, etc
 - The need for new governance models

A new technology module points to optimism and uncertainty



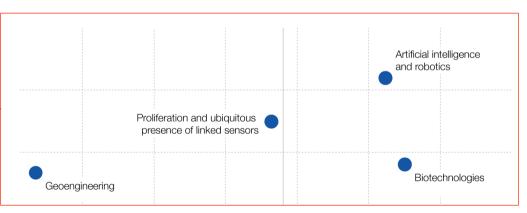
Respondents assessed 12 new technologies for benefits and negative consequences



Which emerging technologies require better governance?

Al/robotics: 46%Biotech: 42%

• Average of the rest: 16%



Three chapters on emerging technologies



1. Understanding the Technology Risks Landscape

- Blind spots, pace of change, etc
- The need for new governance models

2. Assessing the Risks of Artificial Intelligence

- Governance issues again, and the increasing importance of value alignment
- Under-explored risks in the area of warfare and military strategy

3. Evolving Physical Infrastructure Needs and Vulnerabilities

- Growing risk of cascading failures, particularly focused on electricity networks
- Intensifying network complexity makes risk mapping/assessment more difficult

Three chapters on socio-political challenges



1. Western Democracy in Crisis?

- Dangers: polarization, insecurity, the post-truth turn
- Challenges: inclusive growth, long-term focus, identity/community

2. The Closing Space for Civil Society

• An under-appreciated trend over the past decade

3. The Future of Social Protection Systems

- Huge changes: technology, work, demographics, migration, interest rates
- New flexible systems needed for increasingly diverse life and career paths



Looking ahead to 2018

Building a new-look Global Risks Report



- 1. The traditional core of the report remains intact
- 2. Using the survey to generate more timely insights
- 3. A greater focus on sources of rapid and dramatic disruption
- 4. Revisiting some of the risks we have previously covered
- 5. More space for fresh thinking about risk



aengus.collins@weforum.org