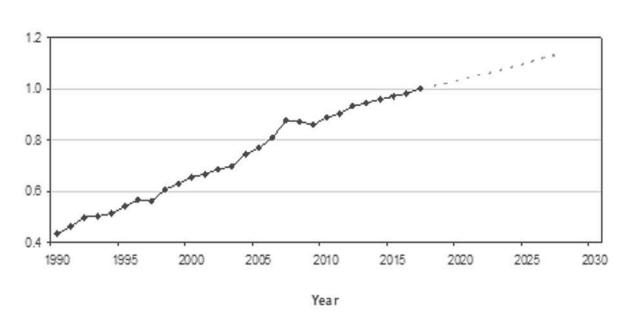


State of the Future Index



Source: Future Index tou Millennium Project (2017) (UN)

Successes and Failures of Humanity towards the Future

Where are We Winning

GNI per capita (PPP, 2011 international \$) Poverty (\$1.90/day, PPP) (%) Foreign direct investment, net inflows (US\$, billions) Freedom (number of countries rated free) Women in national parliaments (% of members) Share of high skilled employment (%) School enrollment, secondary (% gross) Literacy rate, adult total (% of people ages 15+) Electricity from renewables, excl. hydro (% of total) Energy-Efficiency (GDP/unit of energy use) Improved water sources (% population with access) Physicians (per 1,000 people) Health expenditure per capita (US\$) Prevalence of undernourishment (% population) Mortality rate, infant (per 1,000 live births) Life expectancy at birth (years) Population growth (annual %) Internet Users (per 100 people)

Where are We Losing

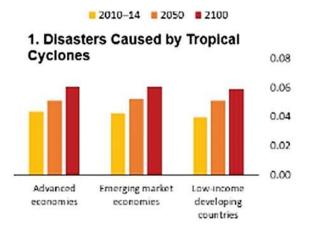
CO₂ equivalent mixing ratio (ppm)

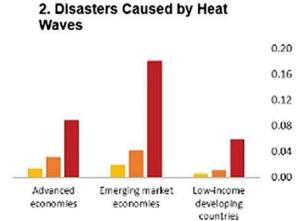
Renewable internal freshwater resources (m³/capita)
Forest area (% of land area)
Biocapacity per capita
R&D Expenditures (% of GDP)

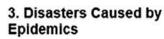
Social unrest indicator (Protest/Total events) (%)
Unemployment (% of world labor force)
Income inequality (share of top 10%)
Terrorism Incidents
Number of wars and serious arm conflicts
Corruption in the public sector (1=low; 6=high)

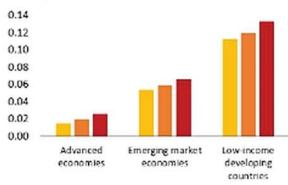
Source: Future Index tou Millennium Project (2017) (UN)

Prone to Disasters

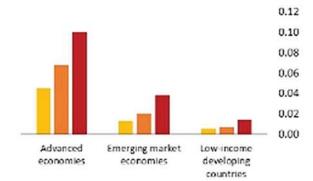








4. Disasters Caused by Wildfires

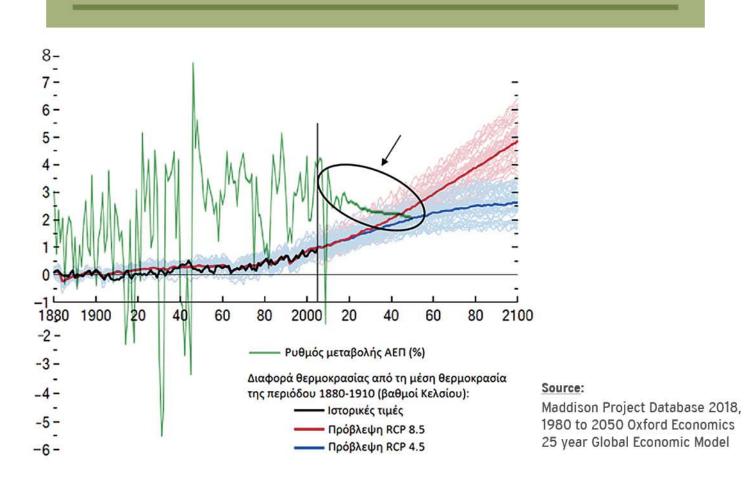


Source: IMF (2017)

Evolving Risk Landscape, 2008-2018

set price illapse ddle East ttablity	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
		Claudes Chianne					the second second second second	the state of the s		10
	есопоту (<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 disaster
iled and failing ites	Chronic disease	Chronic disease	Corruption	Rising greenhouse gas emissions	Rising greenhouse gas emissions	Unemployment and underemployment	Failure of national governance	Failure of climate- change mitigation and adaptation	Major natural disasters	Cyberattacks
and gas price ike	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 th
ronic disease, veloped world	Retrenchment from globalization (emerging)	Global governance gaps	Climate change	Water supply crises	Mismanagement of population ageing	Cyber attacks	High structural unemployment or underemployment	Major natural catastrophes	Massive incident of data fraud/theft	Failure of climar change mitigati and adaptation
	Terms of Impact									
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
set price llapse	Asset price collapse	Asset price collapse	Fiscal crises	Major systemic financial failure	Major systemic financial failure	Fiscal crises	Water crises	Failure of climate- change mitigation and adaptation	Weapons of mass destruction	Weapons of ma destruction
strenchment om globalization oveloped)	Retrenchment from globalization (developed)	Retrenchment from globalization (developed)	Climate change	Water supply crises	Water supply crises	Climate change	Rapid and massive spread of infectious diseases	Weapons of mass destruction	Extreme weather events	Extreme weath events
owing Chinese enemy (<6%)	Oil and gas price spike	Oil price spikes	Geopolitical conflict	Food shortage crises	Chronic fiscal imbalances	Water crises	Weapons of mass destruction	Water crises	Water crises	Natural disaste
and gas ce spike	Chronic disease	Chronic disease	Asset price collapse	Chronic fiscal imbalances	Diffusion of weapons of mass destruction	Unemployment and underemployment	Interstate conflict with regional consequences	Large-scale involuntary migration	Major natural disasters	Failure of clima change mitigat and adaptation
ndemics	Fiscal crisos	Fiscal crises	Extreme energy price volatility	Extreme volatility in energy and agriculture prices	Failure of climate- change mitigation and adaptation	Critical information infrastructure breakdown	Failure of climate- change mitigation and adaptation	Severe energy price shock	Failure of climate- change mitigation and adaptation	Water crises
it lab are so le	and gas price ive control of seaso, elepted world control of seaso, elepted world control of seaso, elepted world control of season contro	and gas price Global governance gaps onic disease, eleped world Dobal Risks in Terms of Impact 2003 2009 et price apse Asset price colapse Petrenchment from globalization (developed) Wing Chinese normy (-6%) Di and gas price spike Chronic disease	and gas price Global governance gaps onic disease, Retrenchment from globalization (emerging) obal Risks in Terms of Impact 2008 2009 2010 et price apse Collapse Asset price collapse renchment from globalization (developed) Retrenchment from globalization (developed) Oll and gas price spike Oll and gas price spike Chronic disease Chronic disease	and gas price Global governance gaps Godiversity loss God	and gas price gaps Global governance gaps Fiscal crises Grodiversity loss Cyber attacks Cyber	and gas price gaps Global governance gaps Fiscal crises Biodiversity loss Cyber attacks Water supply crises onic disease, gaps Right enchment from globalization (emerging) Obal Risks in Terms of Impact 2008 2009 2010 2011 2012 2013 Pet price collapse Asset price collapse Asset price collapse Asset price collapse Refrenchment from globalization (developed) Refrenchment from globalization (developed) Refrenchment from globalization (developed) Oll price spikes Oll price spikes Chronic disease Chronic disease Chronic disease Fiscal crises Extreme energy price volatility Fautre energy and Extreme volatility Fautre of Limate change gas emissions Water supply Crises Chronic disease Diffusion of weapons of mass destruction Asset price Chronic fiscal imbalances Diffusion of weapons of mass destruction Restrenchment from globalization (developed) Chronic fiscal imbalances Fiscal crises Fiscal crises Fiscal crises Extreme energy price volatility Fine energy and Fautre of circulation in energy and change in energy and change menions of mass destruction energy price volatility Fautre of circulation change meniogation	and gas price gaps Global governance gaps Fiscal crises Biodiversity loss Cyber attacks Water supply crises Climate change	gas emissions gas emissions gas emissions and underemployment governance gaps	gas emissions gas emissions gas emissions and gas price change mitigation and dataptation and	gas emissions gas emissions and gas price gas emissions and gas price gas emissions and gas price gas gas emissions gas emissions and gas price gas gas emissions gas gas emissions and gas

Temperature Difference from Mean Temperature During 1880-1910 (Celsius degrees) and the GDP Growth Rate (%) Worldwide



Ambition Level of International Climate Agreements

	Coverage	Emissions reductions, covered countries	EU reduction
Kyoto	18% of global emissions	4-5% from 1990 to 2012	2012:8%
Doha	11% of global emissions	18% from 1990 to 2020	2020: 20%
Paris	100% of global emissions	Carbon neutrality second half of 21st	2030: 40%
		century	2050: tbd

Source: Bruegel (2018)

