

7 September 2020 Torsten Jeworrek, Stefan Golling



Agenda



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Insurance industry outlook

Torsten Jeworrek

2 Syster

Systemic risks on the rise

Stefan Golling – Torsten Jeworrek **Pandemics**

Cyber

Climate change

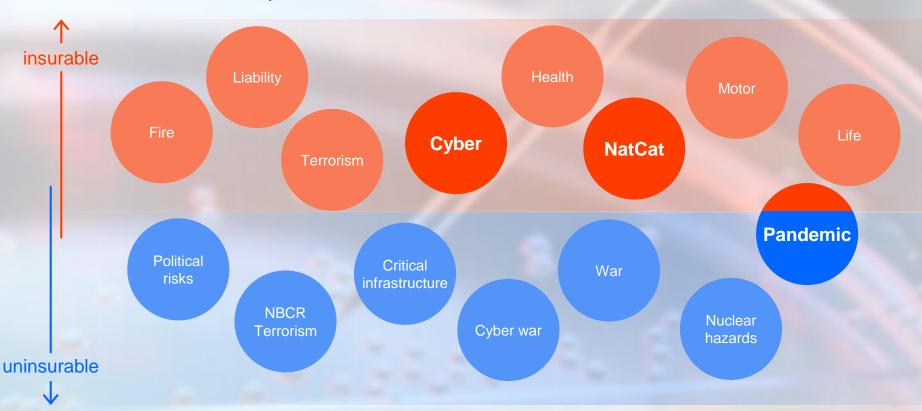






Insurability of risks

Assessable - random - independent



Update on recent loss events



COVID-19-related losses with reduced momentum since 30 June

Hurricanes Hanna, Isaias and Laura (July and August): Munich Re anticipates a low tripledigit-million euro amount in claims



Explosion in Beirut: Claims in a low three-digit-million euro range expected

California wildfire season is currently still ongoing: Impact for Munich Re currently not estimated to be material

Primary insurance and reinsurance development



Global premium development 2017–2019/2020e–2022e

P-C RI: Ceded premiums 2019

P-C RI and PI real growth rates (CAGR)

			RI		PI	
			17–19	20–22	17–19	20–22
Europe	€85bn	31%	2%	1-3%	2%	1%
North America	€94bn	34%	8%	2-4%	3%	2%
Asia Pacific	€66bn	24%	6%	4-6%	4%	4%
Latin America	€15bn	5%	2%	0-2%	0%	0%
Africa/Middle East	€14bn	5%	1%	2-4%	-1%	2%
Total	~€274bn	100%	5%	2-4%	3%	2%

Insurance capacity stable overall

Alternative capital re-evaluating investment case

Dedicated reinsurance capital

Traditional RI capital (US\$ bn)



1 Total of reported top 50 fund NAV plus estimated non-reported capital

Trends

Traditional market

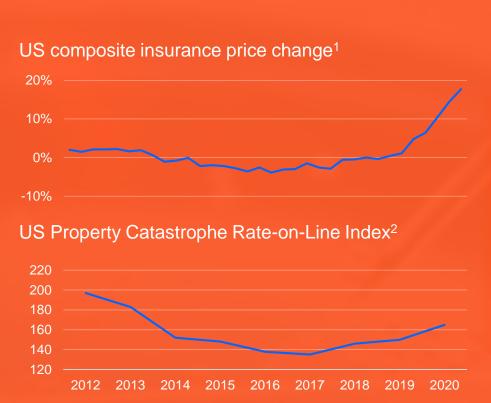
- Traditional reinsurance capital showing overall stable development despite recent COVID-19 impact
- Capital markets highly volatile in 2020 but recent market recovery
- Capital increases by existing market players and new players entering the market
- Withdrawal of capacity in some lines of business

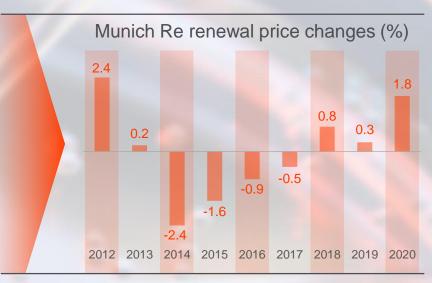
Non-traditional capacity/Alternative Risk Transfer ("ART")

- Market for Alternative Risk Transfer (ART) remains stable at US\$ 90bn+ 1
- Loss creep, unmodelled perils and uncertainty around COVID-19 leading to investors expecting higher returns
- Recent tendency to lock up capital in illiquid products driving interest in more transparent, liquid Cat bond market
- "Flight to quality" of ART capacity supporting our retro programme

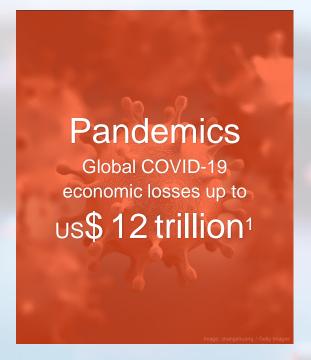
Industry's price development favourable

Insurance and reinsurance indices showing upward price trends in recent years











Climate change ~800 million

people live in cities that will be affected by

sea-level rise

if no action is taken³

¹ Source: IMF June 2020

² Compared to baseline levels in February; Source: Carbonblack, April 2020

³ Source: C40 Cities, RCP 8.5 "business as usual" scenario

Insurance industry bears significant COVID-19 losses But there is a huge uninsured portion







US\$ 30-107bn (average US\$ 62bn)1

> Non-life pandemic loss estimates in 2020

Life/Health



Life/Health pandemic loss

Non-damage business interruption



Risk capital of US insurers would have been consumed within a few weeks if BI losses had been insured²



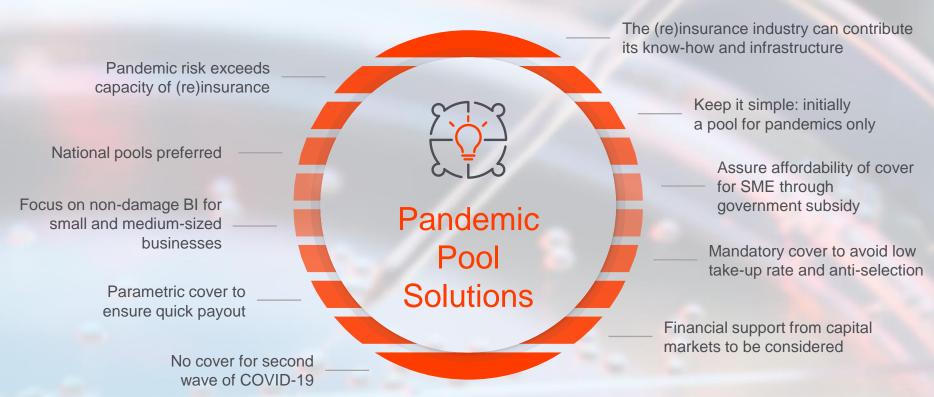
uninsured

² Source: APCIA

¹ Source: Dowling, Artemis, Barclays, BofA, KBW, USB, Lloyd's, Wells Fargo, Goldmann Sachs, Berenberg

Munich Re's approach to uninsured pandemic risks

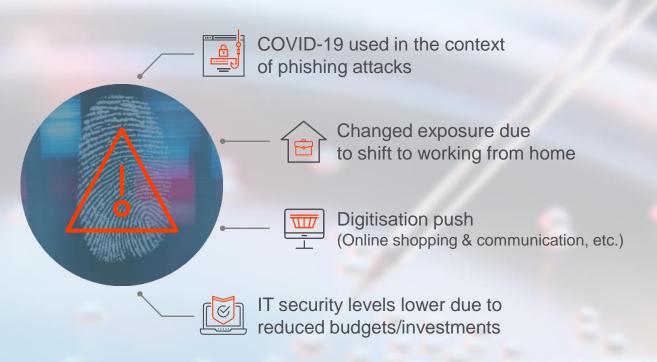






COVID-19 significantly affecting cyber risk

Developments underline necessity, potential and complexity of cyber insurance



Accelerated digitisation

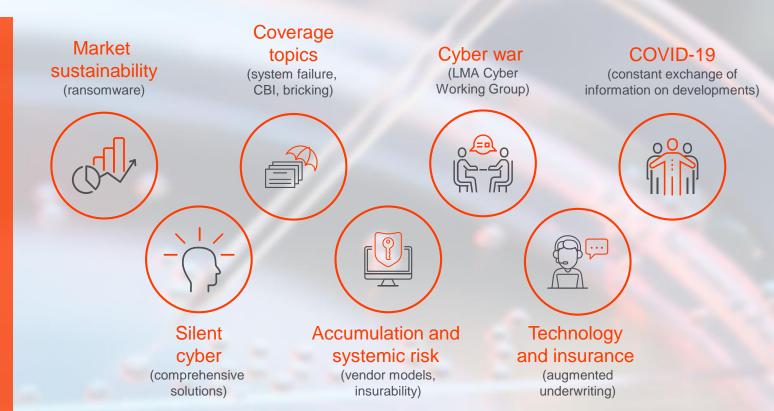
- Strong increase in digital solutions
- Raised cyber awareness
- Increase in frequency and severity of malicious attacks
- Increase in frequency of cyber crime losses to be expected
- Hardening of conditions likely

Current "hot" topics we are addressing





challenge





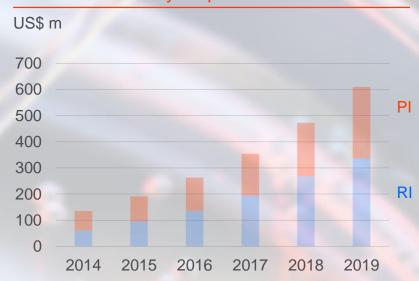
Strong growth expected in cyber insurance market

Cyber is one of Munich Re's main strategic areas

GWP global cyber insurance market¹



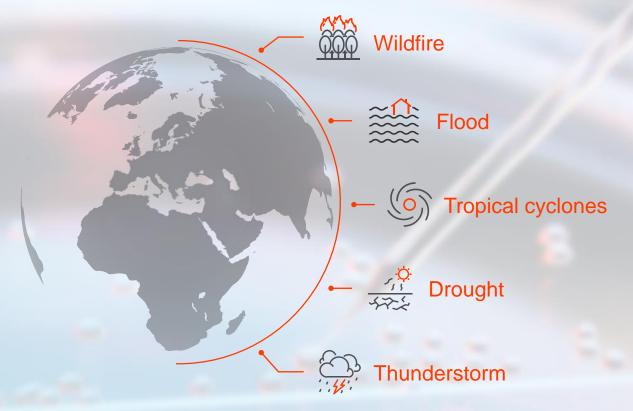
GWP Munich Re cyber portfolio



Cyber reinsurer of the year 2017, 2018, 2019 and 2020

Climate risks – The clock is ticking

Adaptation and mitigation required







Global effort



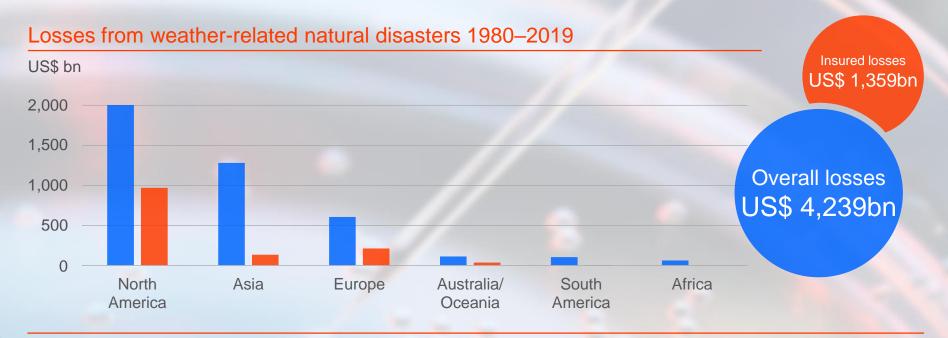
Economic + ecological transformation



Technological push

Insurance gap still very high in many parts of the world

Decreasing in industrialised countries, unchanged in developing countries



Worldwide: Less than 1/3 of losses were insured

Solutions to mitigate climate change and strengthen resilience Initiatives to support the Paris Agreement targets and to adapt to climate risks



Munich Re memberships



Net Zero Asset Owner Alliance



ClimateWise



Insurance Development Forum



Climate Action 100+

Enabling

- Green Tech Solutions
- Investments and partnerships

Munich Re Solutions

Disabling

- No new coal
- No new oil sands
- Asset divestments

Resilience

- High risk capacity
- Digital risk assessment tools
- Parametric trigger solutions

Re | think complexity

Be better prepared for systemic risks

