RVS Monte Carlo 2022 Munich Re Media conference

11 September 2022 Torsten Jeworrek, Thomas Blunck





# Solutions for a sustainable future Agenda







01

Economic market environment

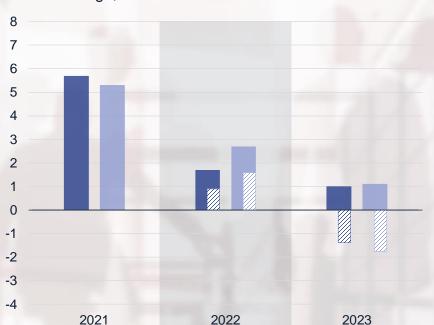


## Growth is slowing down while inflation is at very high levels Challenging times for the world economy



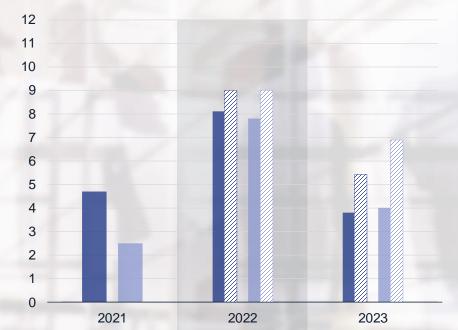
## Real GDP growth, baseline and risk scenario

Annual average, in %



### CPI inflation, baseline and risk scenario

Annual average, in %

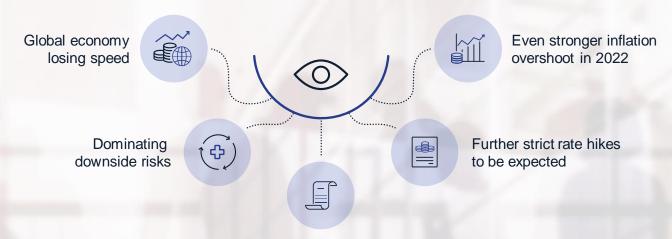


■ US ■ Eurozone Ø Risk scenario

## Global economic outlook

### Overview





Fiscal policy to remain highly supportive

### Recession risks are rising ...

- Very fragile, uncertain economic environment
- Elevated inflation and rising recession risks in major economies
- Inflation pressures remain elevated and could continue to surprise on the upside in Europe – US headline inflation may be close to a turning point, but overall uncertainty expected to remain very elevated into 2023

## ... while outlook is highly uncertain

- Central banks' task: Reigning in inflation without derailing the economy
- Recent data points to further slowdown ahead
- Different risk drivers: Natural gas shortages in Europe, monetary policy tightening in the US, pandemic in China



02

Insurance market outlook



## **Fallersin**

# Following years of strong growth in major regions, reinsurance market expected to grow at least in line with primary business



Global premium development 2019–2021/2022e–2024e

P-C RI: Ceded premiums 2021

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



## Munich RE

## Alternative capital re-evaluating investment case





<sup>&</sup>lt;sup>1</sup> Sum of reported top 50 fund NAV plus guess on non-reported capital Source: AM Best, Guy Carpenter, Munich Re



### **Traditional market**

- Traditional reinsurance capital expected to shrink for the first time since 2018
- Capital markets under pressure, all asset classes affected; esp. increasing interest rates with negative impact on shareholder equity in the short term
- European reinsurers have additionally been hit by the sharp rise in the US
   Dollar against the Euro, impacting capacity
- Withdrawal of capacity in some lines of business; some competitors with decreasing nat cat risk appetite
- Increasing competition for reinsurance capacity

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

- Capital invested in Alternative Risk Transfer (ART) has leveled off since 2019 at around US\$ 100bn<sup>1</sup>
- Loss experience has materially reduced portfolio returns since 2017
- Loss "creeps" and unexpected loss drivers (secondary perils, COVID, war) have further increased uncertainty
- Investor scepticism on mainstream products' investment case
- ART and traditional markets seem more aligned in their assessment of opportunities vs. risks

# Overall market environment challenges insurance industry Munich Re is taking advantage of capacity tweaks in the market





Inflation: Increasing concern about **pricing adequacy** – July renewals were sufficiently priced and successful.



Recent years showed high losses from non-peak perils and unexpected events (pandemic, war in Ukraine).



Tendency of reduced cat capacity in the market – Munich Re is leveraging cat risk know-how and financial strength.



Cyber risks have increased – Strict focus on stand-alone profitability, shaping the market as a market leader.



Munich Re remains the partner of choice with financial strength, expertise and continued high capacity.



03

Climate risk and strategy



## Insurance industry counters climate change

Our approach: Understand - Measure - Manage - Enable - Invest



**Manage:** Strengthening resilience with risk transfer solutions and supporting prevention measures

**Measure:** Expanding stateof-the-art modelling



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**Enable:** Improving bankability of climate technologies with innovative de-risking solutions

**Understand:** Identifying risks, sharing data and knowledge





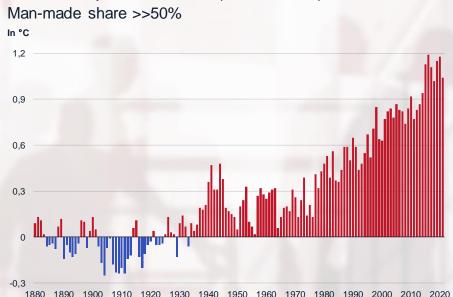
**Invest:** Allocating capital to renewable projects and ESG-related investments, issuing green bonds



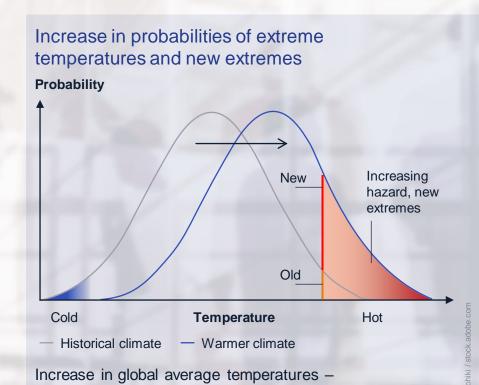
# Understand: Global warming is changing probability distributions Small increase in average temperatures → large increase in probability of extremes







Annual temperature anomalies (°C) compared to the 1880–1900 average

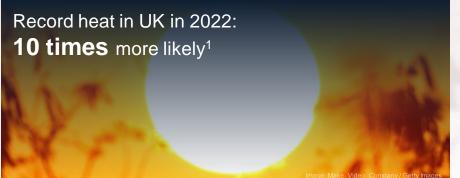


changing probability distributions



## Understand: Impact of climate change is becoming ever more evident Scientific attribution studies show increasing probabilities of extreme weather events











e: hanohiki / stock.adobe.cor

## Prevention and reduction in the insurance gap is key

Insurers and societies alike have to gear their risk management to this reality



**Measure:** Munich Re invests in HD modelling of non-peak perils

Manage: Increase prevention to limit losses

Manage: Reduction in the insurance gap to foster resilience

Investment in advanced modelling capabilities to ensure state-of-the-art risk management: High-res risk models needed for regional events.

### Each € saves >101

Prevention measures against flooding proved highly effective – achieving similar effects for flash floods also requires review of building regulations.

### >95%

Share of uninsured nat cat losses in emerging/developing countries remains unchanged.

Non-peak perils like flash floods, hailstorms or wildfires are on the rise and impacted by climate change, depending on the region.

## Each US\$ saves 62

US study shows how hurricane resilience spending is paying off.

### >75%

Uninsured losses from the 2021 European floods indicate flood insurance gap in many developed countries.

<sup>&</sup>lt;sup>1</sup> Munich Re extrapolation of flood protection investments following the 1962 Hamburg flood

<sup>&</sup>lt;sup>2</sup> National Institute of Building Sciences, 2019 (https://www.nibs.org/projects/natural-nazard-mitigation-saves-2019-report)

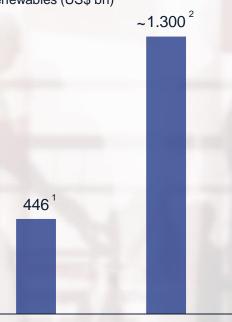
## Insurance market for climate technologies





sees strong growth

Huge investments in renewables needed Actual and needed annual investment in power generation from renewables (US\$ bn)



Munich Re has leading expertise in the area of engineering and technology



Upcoming leap in investments means considerable potential for building and operating major plants



Enable: Performance-guarantee covers bring substantial relief for operators and investors



Invest: Supporting the climate transformation: ESGfocus investments total €7.3bn (€1.7bn in renewables)<sup>3</sup>



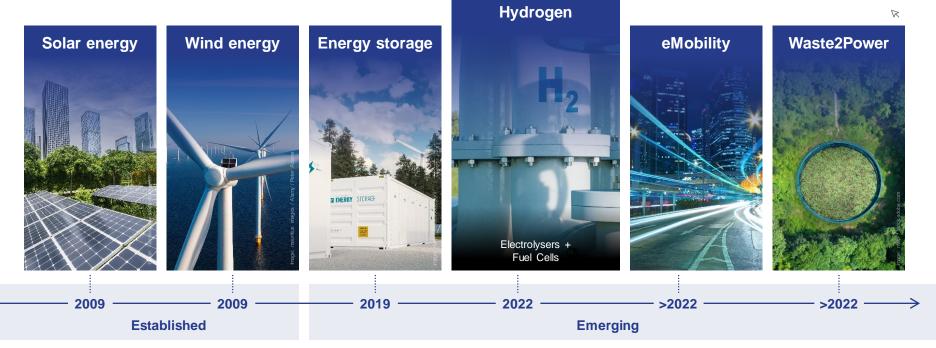
2021 2030 <sup>1</sup>IEA World Energy Investment 2022 <sup>2</sup>IEA World Energy Outlook 2021. Investment in renewable power generation in 2030 required in NZE 2050 Scenario

<sup>3</sup> Green bonds, renewables, certified real estate and forestry management, as of 31.12.2021. Renewable energy investments expected to increase to €3bn by 2025

## Enable: Solutions for established and emerging technologies Green Tech Solutions



### For manufacturers, projects and investors



# Enable: Innovative insurance solutions to support sustainable growth of green hydrogen business







### **Product** guarantee

Offers protection against excessive electrolyser repair costs.



## Performance guarantee

Offers protection against underperformance in terms of H<sub>2</sub> production rate and efficiency.



## **Availability** guarantee

Offers protection against insufficient availability of the electrolyser.

Thank you for your attention.

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