

# **Insights into Life & Health reinsurance**

Our response to the Covid-19 outbreak

Claude Chèvre, Member of the Executive Board 25<sup>th</sup> International Investors' Day 2022 6 October 2022







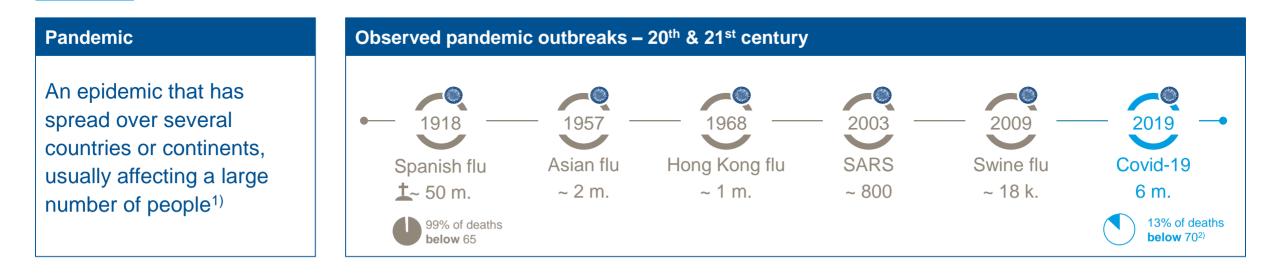
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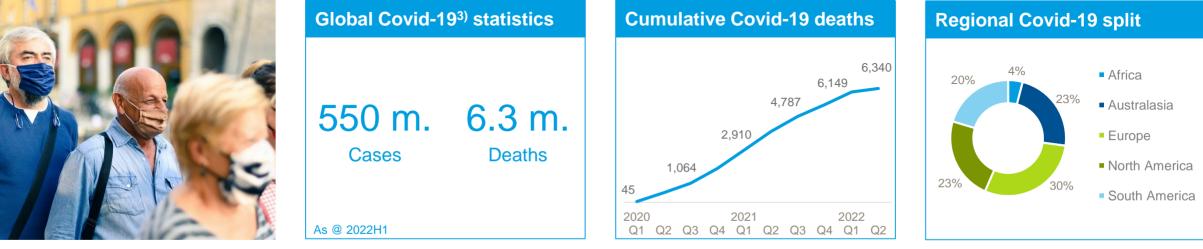
# Pandemics: Not really a surprise



### **Pandemics: Not really a surprise**

### Since the Middle Ages there have been a number of pandemic outbreaks



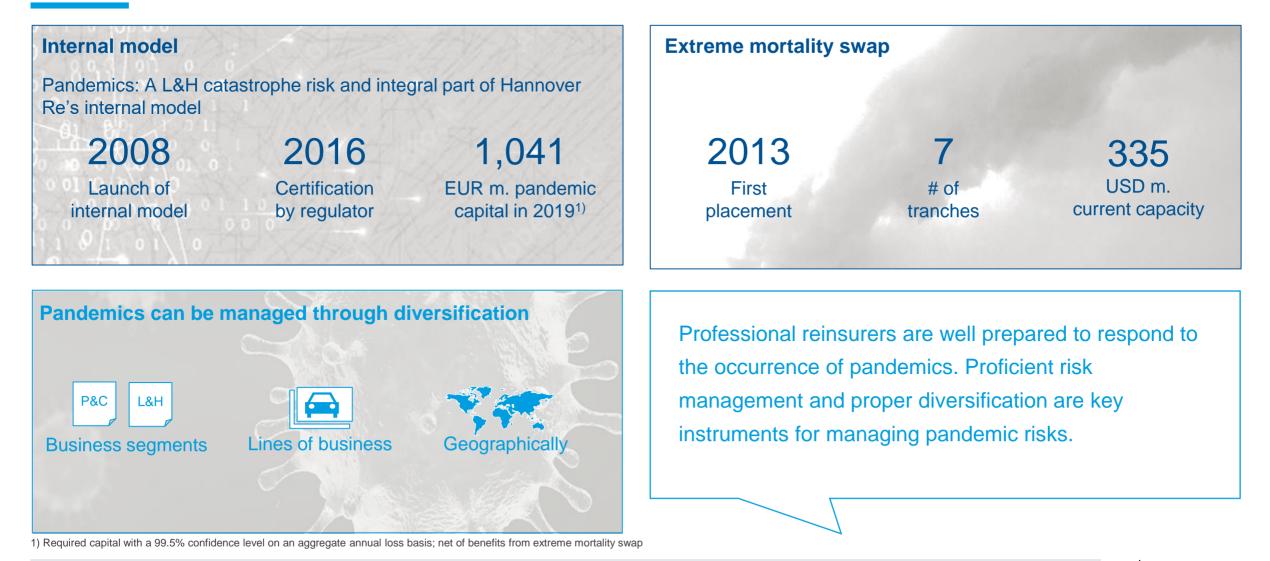


1) Principles of Epidemiology | Lesson 1 - Section 11 (cdc.gov) 2) openknowledge.worldbank.org 3) Coronavirus Pandemic (Covid-19) - Our World in Data

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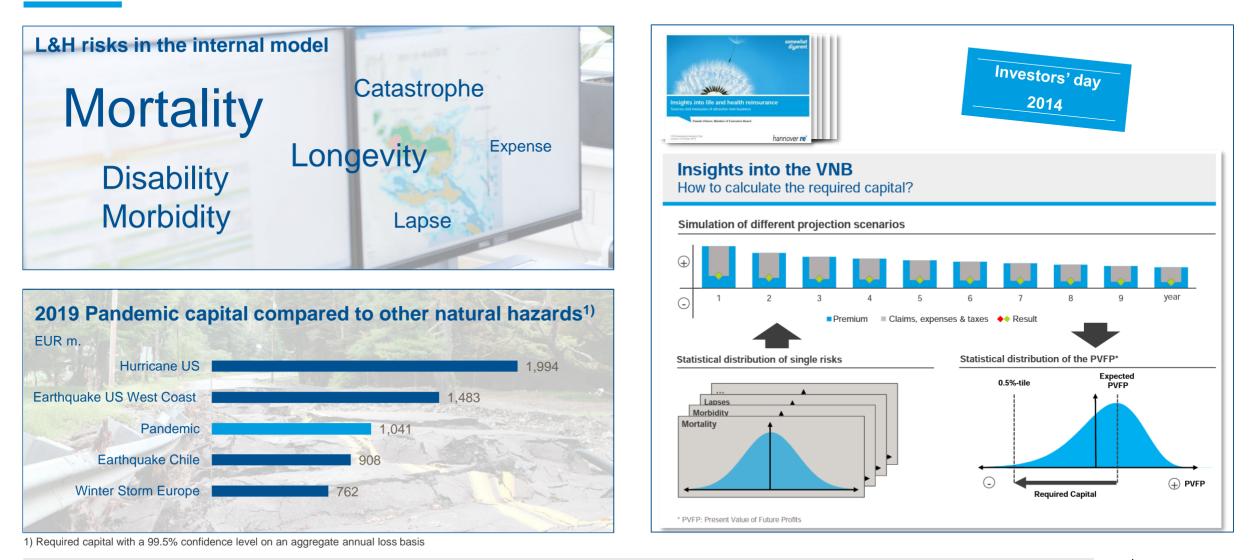
### Pandemics at Hannover Re life & health

### Managing potential claims shocks is core to the role of reinsurance

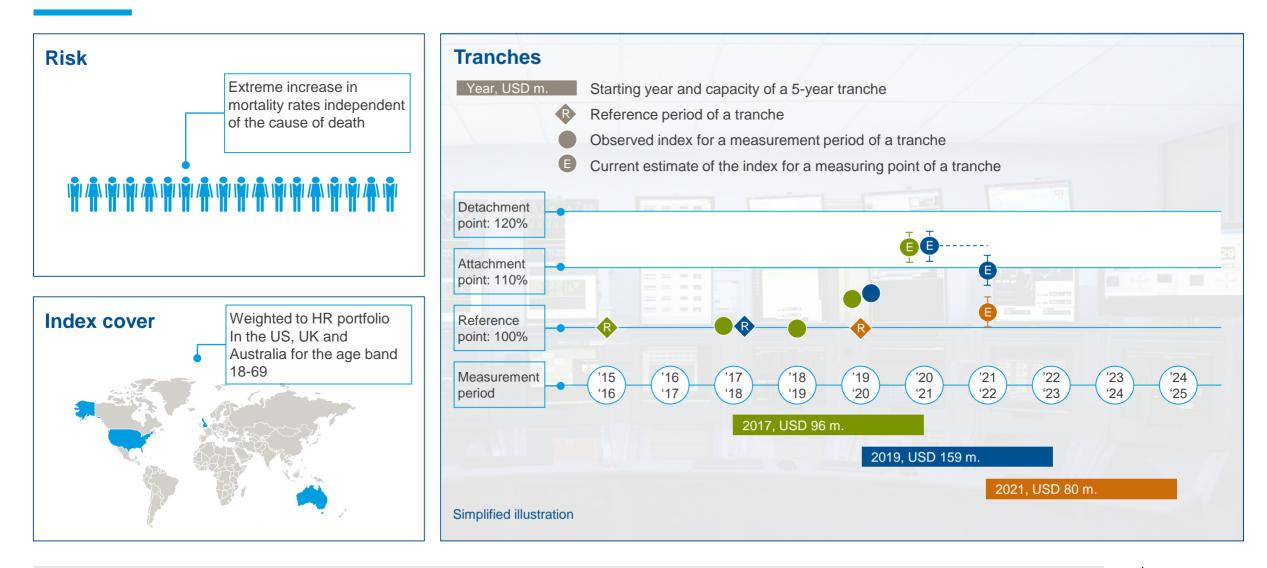


### Internal model: defines capital needs

### Pandemics are reflected within L&H catastrophe risk



## **Extreme mortality swap: cover against extreme mortality shocks** Triggered for the first time in the measurement period 2020/2021





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# Impacts on the L&H business

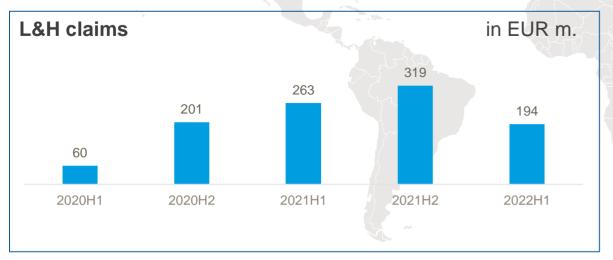
100

average 45%

## **Development of worldwide cumulative population Covid-19 deaths** Reasonably good proxy for Hannover Re's cumulative Covid-19 claims

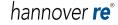
Some factors influencing Hannover Re's Covid-19 claims

- Structure of the insured portfolio (age, socio-economic profile)
- General Covid-19 impact and base mortality in the region
- · Response of local authorities
- Structure of primary and reinsurance covers
- · Data availability and reporting delays

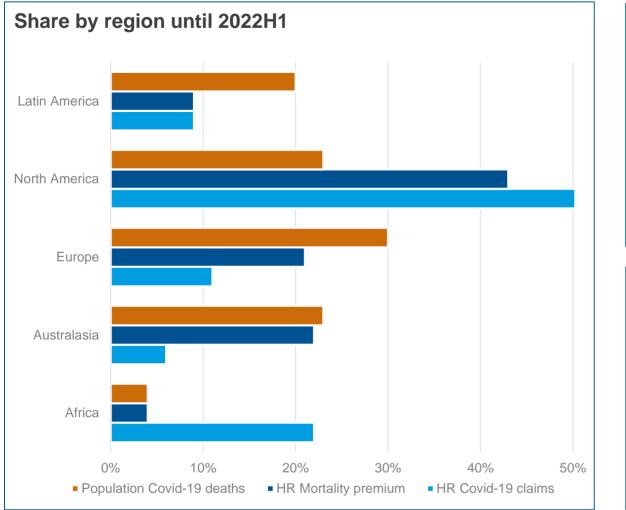


**Claims development** Cum, population deaths: 6.324 k. Cum, L&H claims: EUR 1.037 m. 990 6.000 5.000 825 4.000 660 3.000 495 2.000 330 1.000 165 Ω 2021 2020 2022 Q1  $\Omega^2$ 03 Q1 02  $\Omega^1$ 02 03 04 0.4

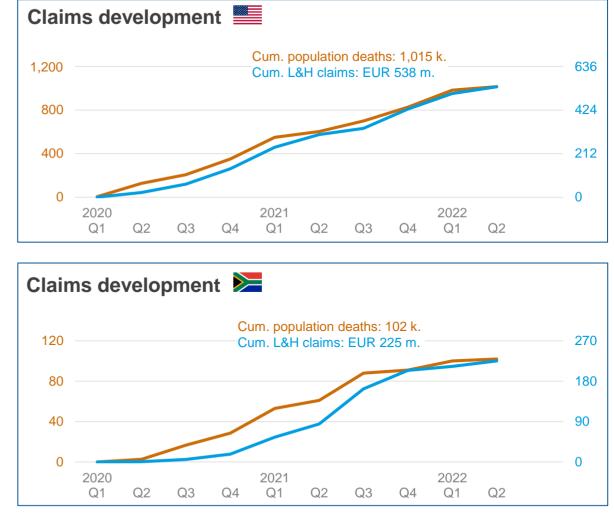
Source: Coronavirus Pandemic (Covid-19) - Our World in Data



## **Development of regional cumulative population Covid-19 deaths** Quality of proxy for Hannover Re's cumulative Covid-19 claims varies by region

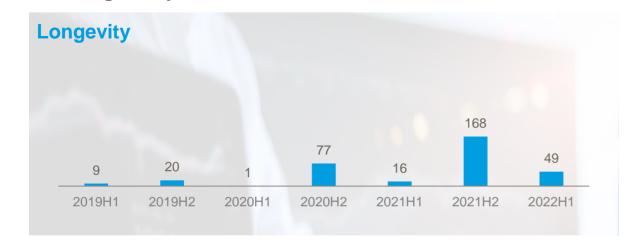


Source: Coronavirus Pandemic (Covid-19) - Our World in Data



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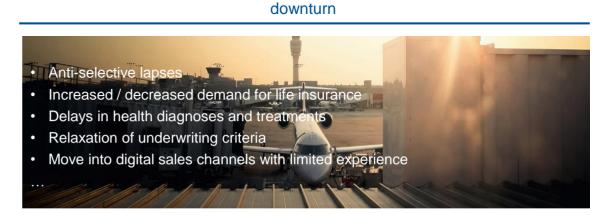
### **Strong contribution from non-negatively affected business** Financial impact of 2<sup>nd</sup> order effects difficult to estimate



Non-negatively affected business, EBIT in EUR m.

Financial Solutions

2<sup>nd</sup> order effects



Economic



No reported claims

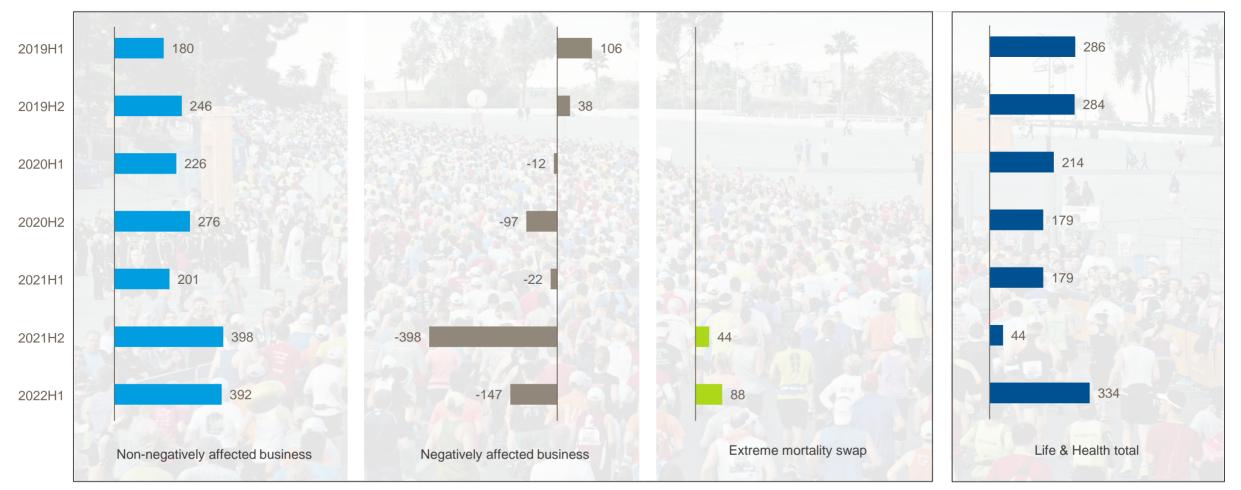




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### Non-negatively affected business and extreme mortality swap More than compensate the losses from Covid-19

EBIT contribution, EUR m.



somewhat dijjerent

# Conclusions & key takeaways



### There are various options

### To enhance further resilience against future pandemics



Shorten rate guarantees for pandemic-exposed product lines – Refrain from offering whole of life guarantees for mortality & morbidity



Focus on new opportunities from non-negatively affected lines of business
Increase offerings in financial solutions & longevity

Strengthen data analytics capabilities

- Validate and back test the internal pandemic model to further optimise diversification

### Key takeaways

### **Pandemics**

- Various pandemic outbreaks have been observed
- · Most were caused by viruses not bacteria
- Different age groups were / are affected
- Effective risk management is key

### L&H business

- 1,037 EUR m. cumulative Covid-19 claims as at 2022H1
- · Claims occurred not always in line with mortality exposure
- Data quality varies from region to region
- Risk management shown to be effective

### Conclusions

- · Occurrence of pandemics must be expected
- Diversification is of utmost importance
- Data analytics is essential

Life and health reinsurers do have options to further increase their resilience against future pandemics.



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