



somewhat  
different

# Insights into P&C reinsurance

Pricing trends and growth story

Sven Althoff, Member of the Executive Board  
25<sup>th</sup> International Investors' Day 2022  
London, 6 October 2022

*hannover* **re**<sup>®</sup>

# Agenda

---

1

Growth story



2

Pricing trends



3

Key takeaways





*somewhat  
different*

1

**Growth story**

*hannover re<sup>®</sup>*



# Our ability to grow is based on strong foundations

## Growth is steered by interplay of strategy and risk selection

### Strategy



Client centricity



Focus on reinsurance



Effective capital management



APAC

### Risk selection determined by risk appetite and bottom-line contribution



NatCat

Underwriting discipline



US Casualty

Adherence to margin requirements



Mortgage

Cyber



UK motor

Capital requirement



### Foundations



Holistic partnership with clients



Reliability



Solution driven



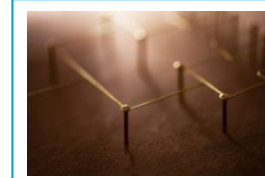
Strong execution



Empowered underwriter



Innovative products



Lean operating model



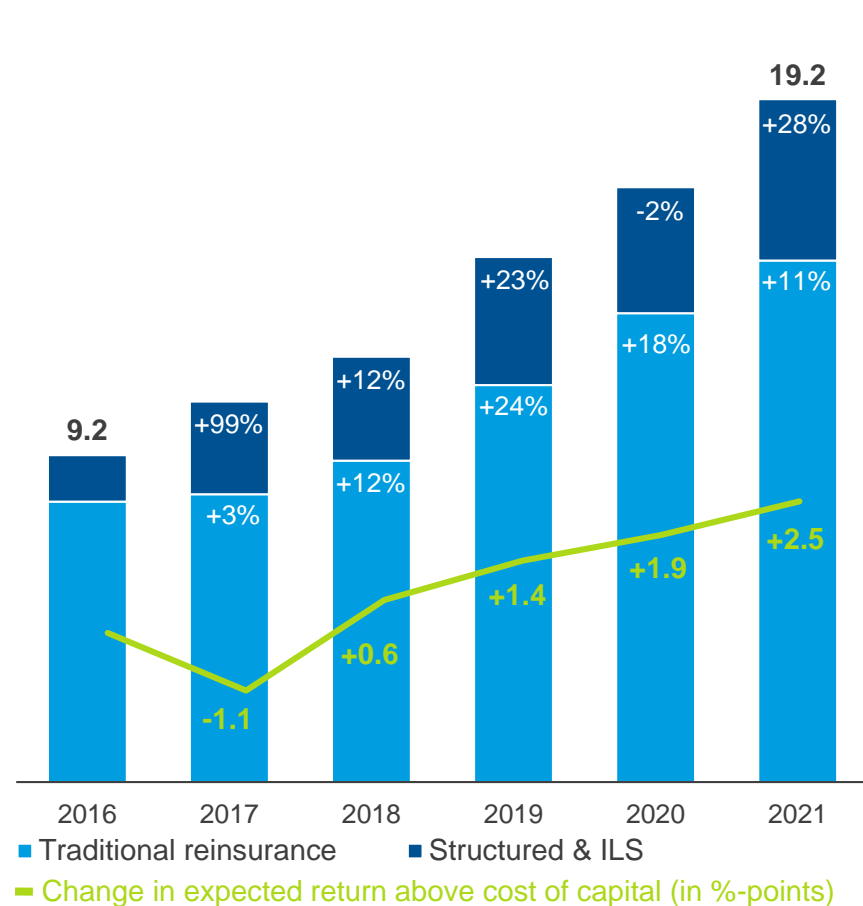
Financial strength

# Growth in traditional P&C reinsurance accelerated with improving profitability

Total P&C premium doubled in five years – on a highly diversified basis

Gross written premium

in bn. EUR

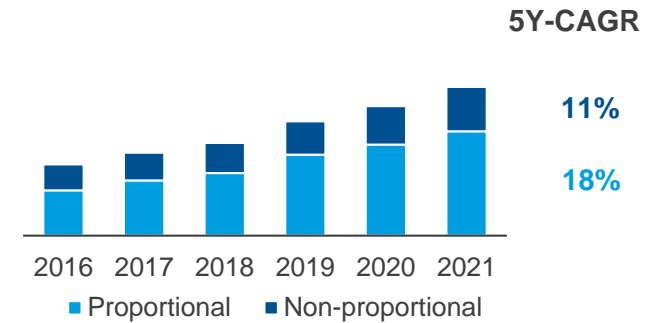


5Y-CAGR

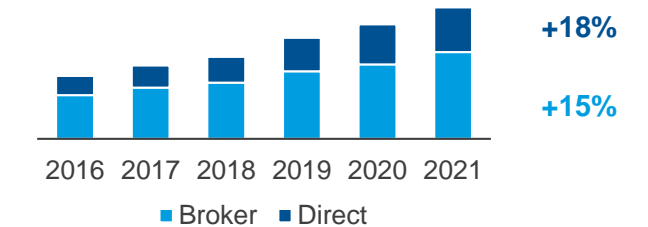
28%

13%

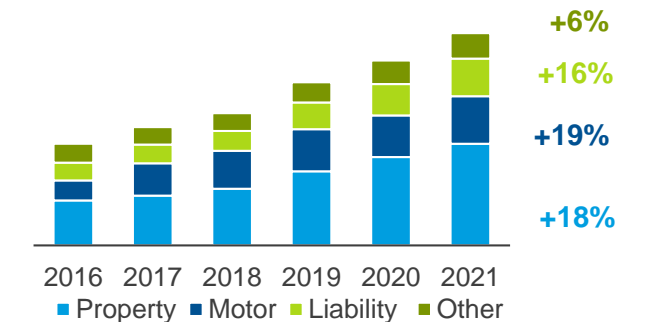
More dynamic price increases in primary insurance



Balanced growth



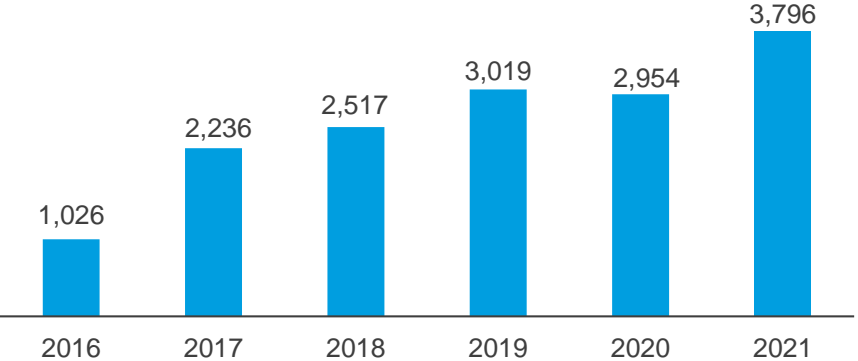
Diversified growth  
Cycle management in specialty lines



# Excellent return for specialised know-how

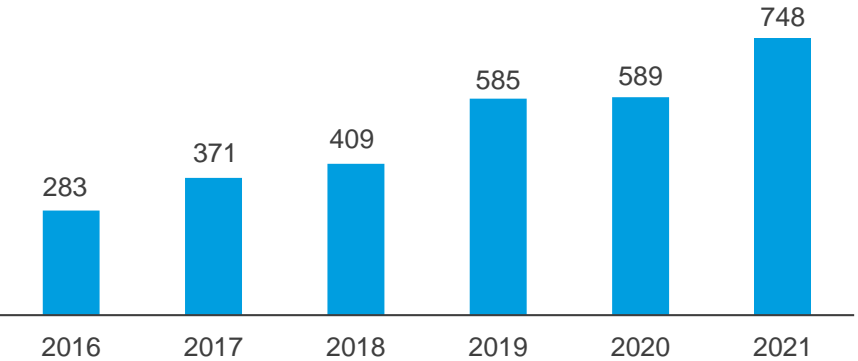
## Reputation for innovative solutions and strong execution enables growth

**GWP Structured Reinsurance** in m. EUR



5Y-CAGR  
**30%**

**GWP Insurance-Linked Securities (ILS)** in m. EUR



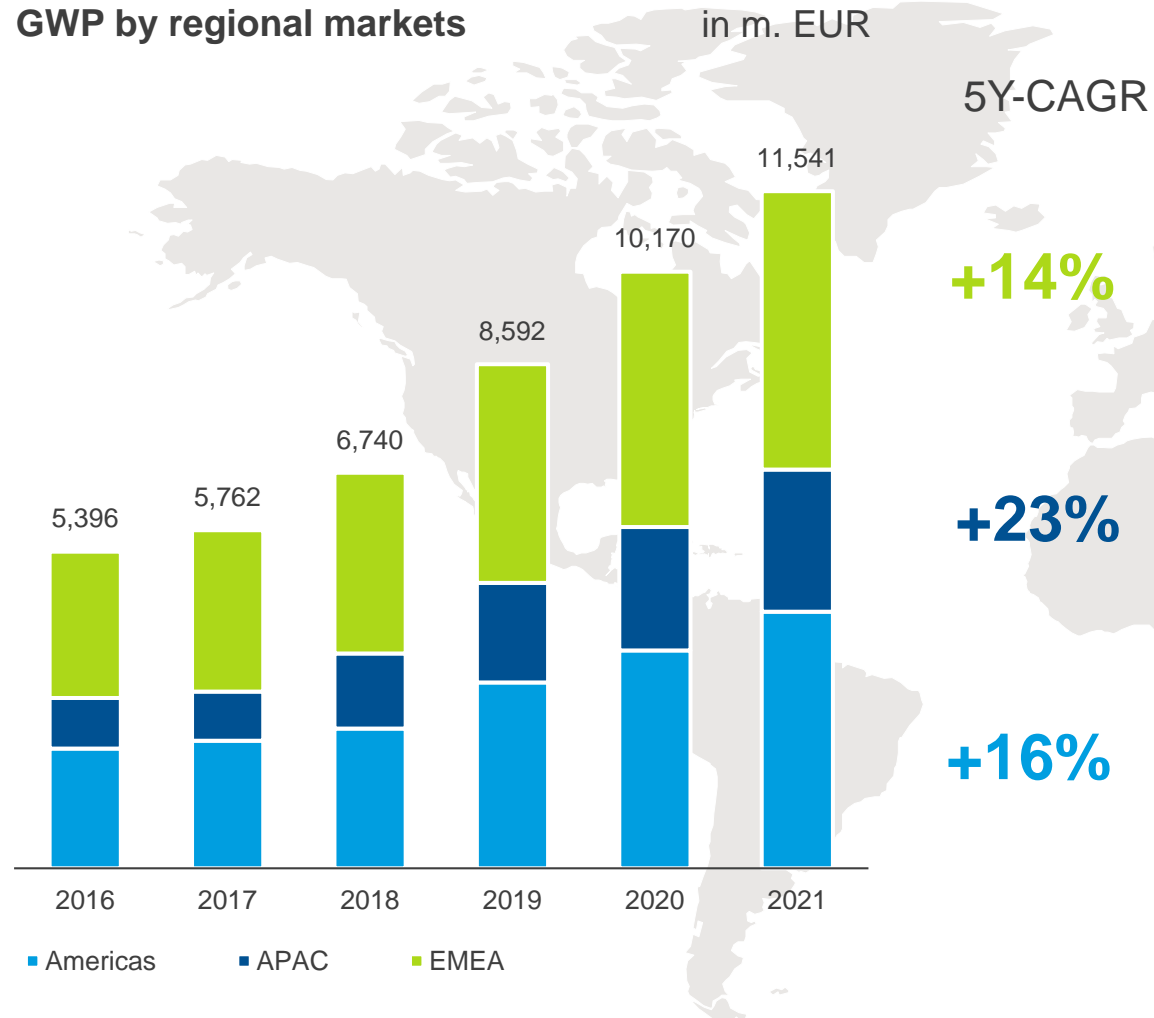
5Y-CAGR  
**21%**

### Why did we grow?

- Increasing demand due to uncertainty and volatility in recent years, further supported by increasing focus of brokers on Structured R/I
  - Leading provider of structured and tailor-made solutions for insurers and corporates
  - Very attractive return on capital with comparatively low volatility  
xRoca  $\geq$  10%
- 
- Competitive advantage based on experienced team with strong track record of fast and professional execution
  - Reputation attracted new clients
  - Growth with existing clients based on long-term relationships
  - Very attractive return on capital with very limited risk for Hannover Re's balance sheet

# Diversified growth in regional markets

GWP by regional markets



## Why did we grow?

### EMEA

- Diversified growth across regions and lines of business
- Increased support of Lloyd's (incl. Argenta) benefitting from market hardening
- Continuous expansion of strategically strong position in Germany

### APAC

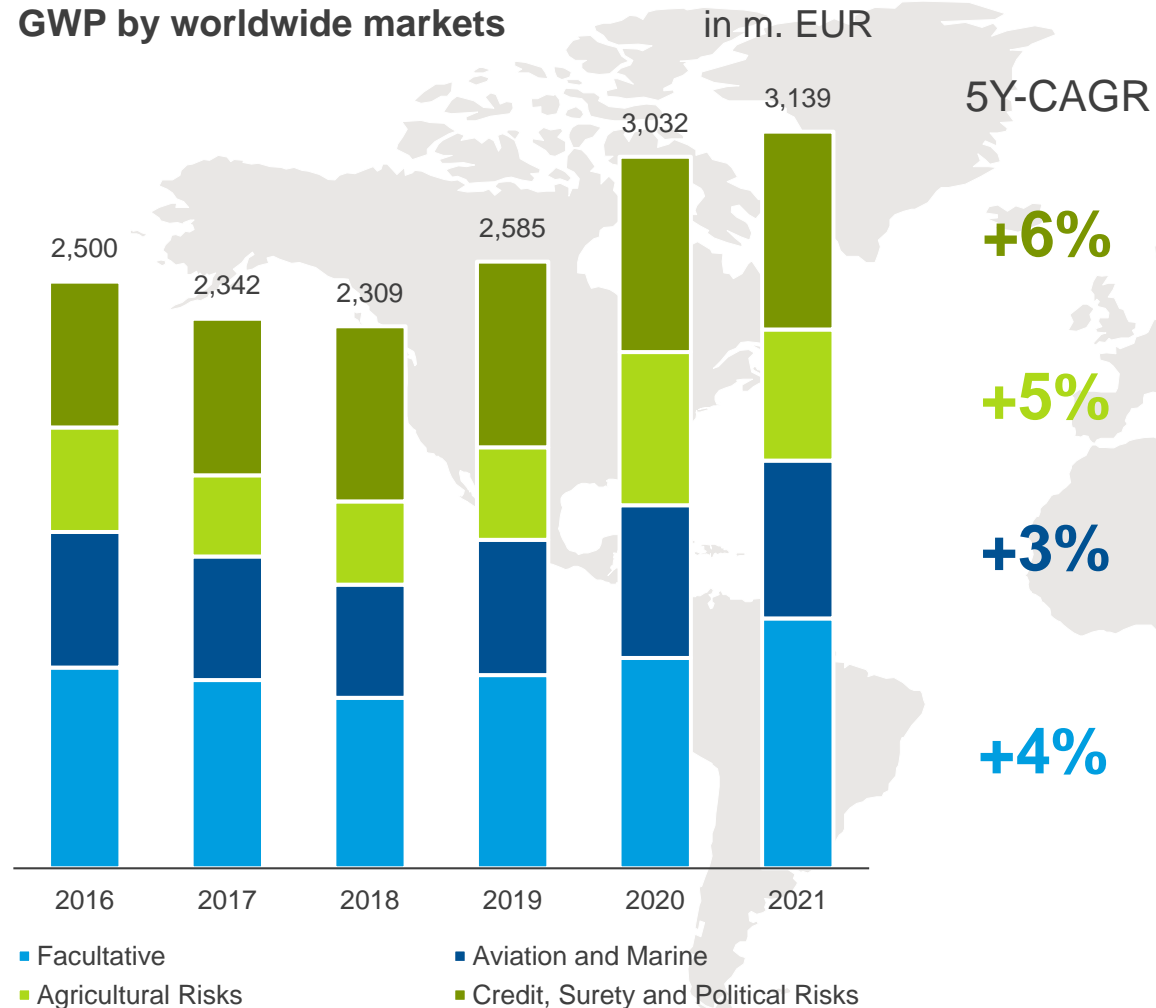
- Increasing local footprint and local hub
- Growth in China driven by successful client-relationship management with strategic clients
- Growth in Australia predominantly with existing clients, deepening the relationships

### Americas

- Loss activity and resulting rate increases in (US) property (re-)insurance
- Significant growth of cyber business (US liability)
- Shift to proportional business due to dynamic price development in primary insurance
- Growth is mainly driven by expansion of existing relationships
- Growth in LatAm focused on property lines (incl. parametric solutions)

# Selective growth based on strong market position in specialty lines

## Active cycle management reflected in premium development



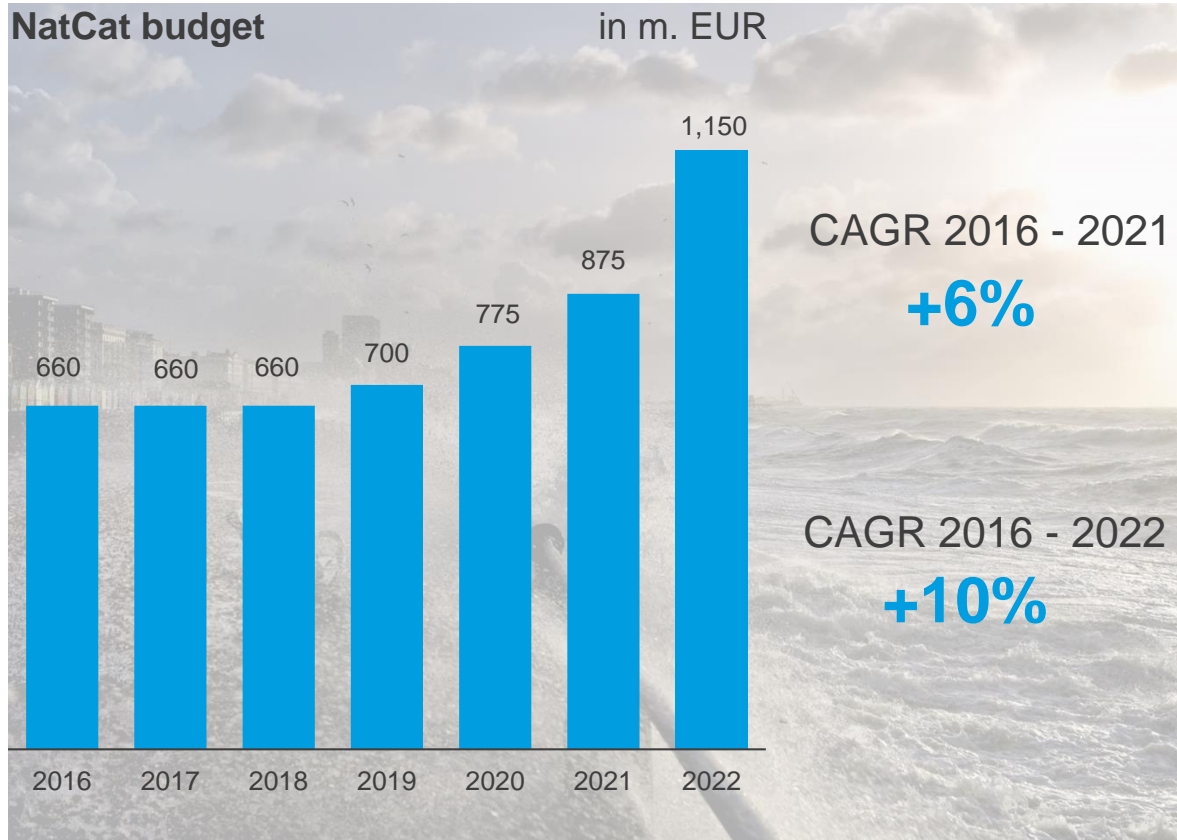
### Why did we grow?

- Expanding a leading market position in **Credit, Surety and pol. risk**
  - Increasing volume from economic growth
  - Client relationship management resulted in higher shares and new clients
- **Agro**: Focus on core markets (e.g. US-MPCI) and parametric solutions
- Favourable underlying growth masked by mandatory cession to state-owned reinsurer in China in 2021
- Active cycle management in **Aviation & Marine**
  - Reduction in soft-market years
  - Growth following pronounced rate increases in recent years
- Increasing demand to manage volatility with **facultative reinsurance**
  - Substantial price increases
  - Strategic partnership with HDI Global Specialty



# Exposure growth in NatCat below overall business growth

Accelerated growth in most recent years builds on consecutive rate increases



## Why did we grow?

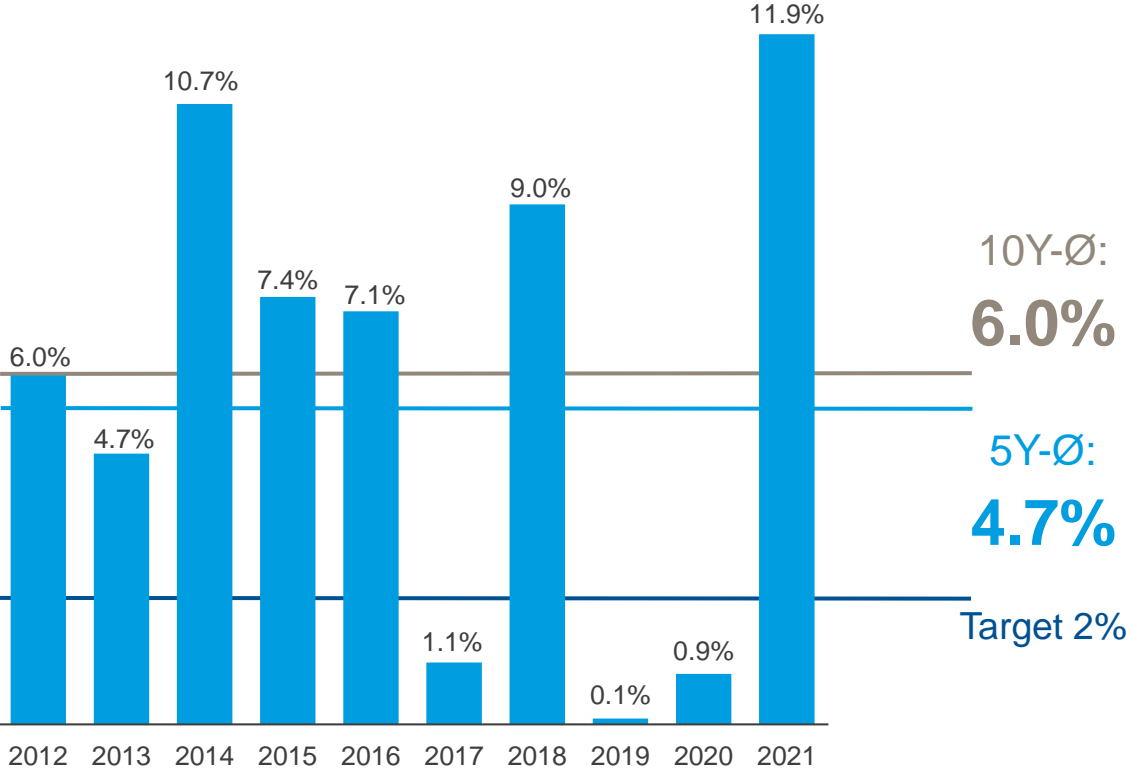
- Active cycle management
  - Moderate growth in first phase of hardening market (until 2018)
  - Accelerated growth since 2019 driven by rate increases accompanied by higher demand
  - Rate increases made more business adequately priced for Hannover Re
- Improved diversification driven by expansion of cat business in Europe, Canada, Japan and Australia in a very capital-efficient way
- Premium growth based on nominal and risk-adjusted rate increases and hence outweighing growth in exposure

- Stronger growth in 2022 reflects growth, model changes and cycle management for retrocession protection

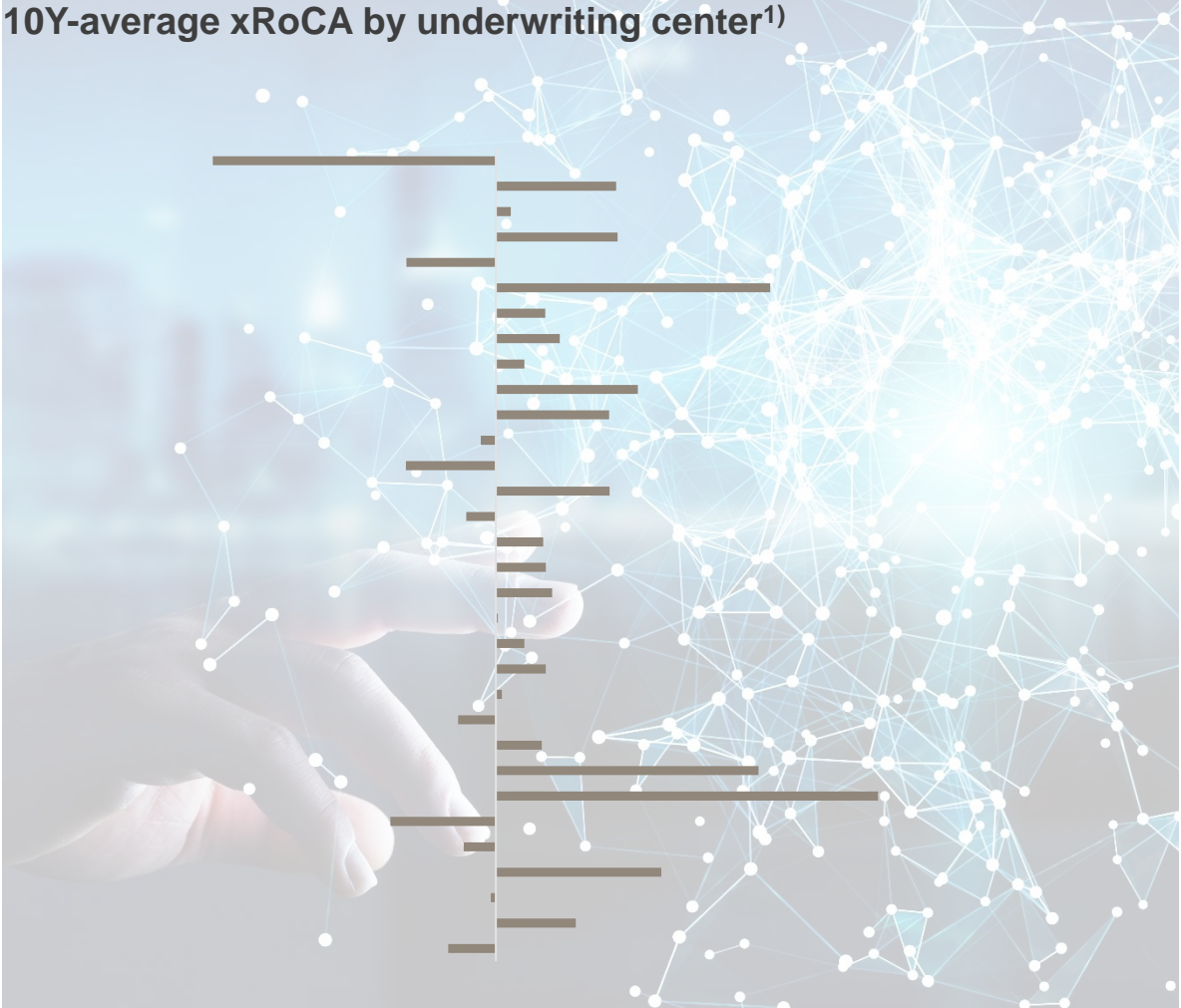
# Diversification is key for the profitability of our reinsurance portfolio

## Long-term xRoCA well above 2% target; outperformance in 7 out of 10 years

### xRoCA



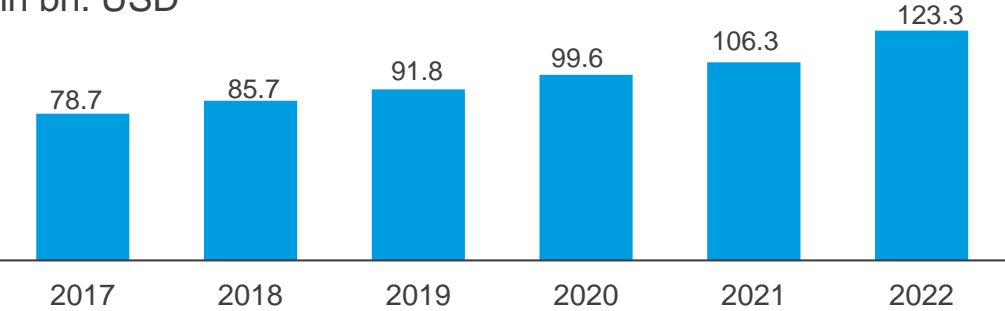
xRoCA = Excess return on capital allocated  
1) Not adjusted for volume, includes underwriting center with < 10Y-history



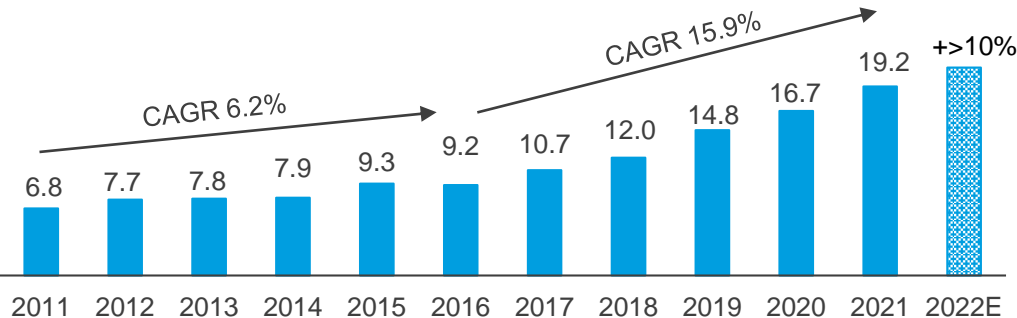
# Favourable outlook for demand in P&C reinsurance

## Underlying growth of P&C (re-)insurance will be driven by volatility

Modelled global insured aggregate average annual loss<sup>1)</sup>  
in bn. USD



Gross written premium P&C reinsurance in m. EUR



1) Verisk  
2) Allianz Global Insurance Report 2022

### P&C insurance market

expected annual growth of  
**+4.6%**  
over next 10 years<sup>2)</sup>

### Drivers for (re)insurance demand

- Climate change
- Uncertain geopolitical environment
- Growth of economies and increasing insurance penetration in Emerging markets

### Hannover Re

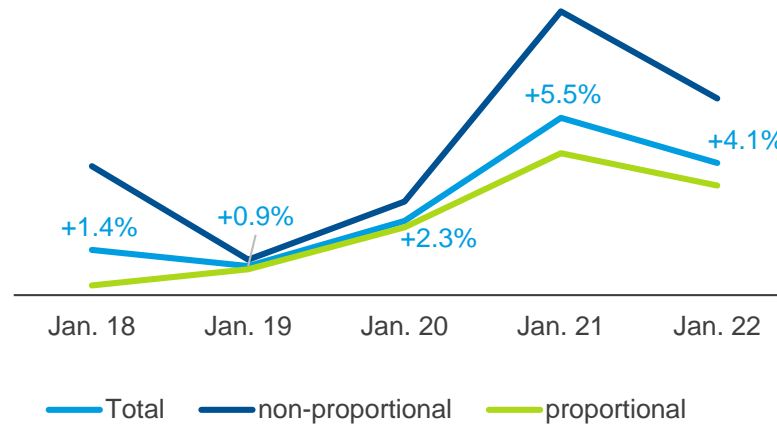
P&C reinsurance  
**> 7%**  
medium-term outlook



# Improving market environment



Risk-adjusted rate increases at 1/1 renewals

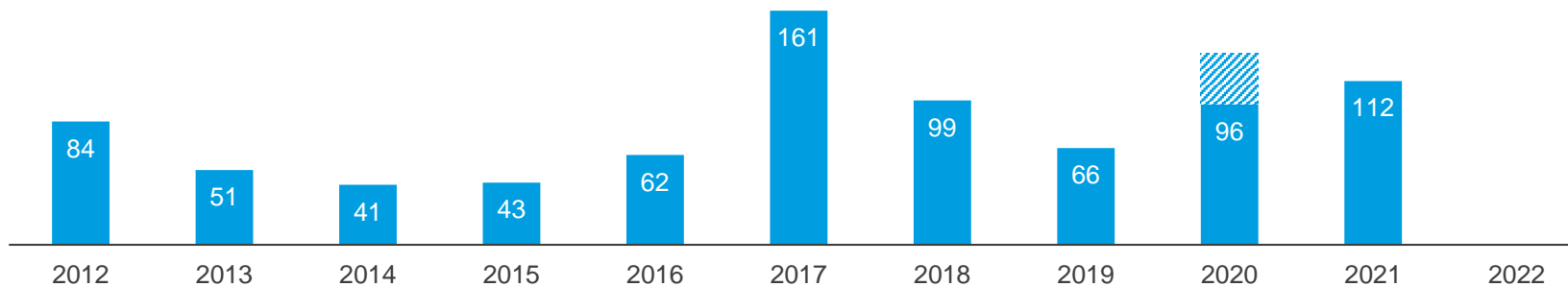


## Drivers for rate increases

Loss experience and trends (incl. climate change)

Low interest rates (until 2021)

Inflation started to increase in 2021



■ Insured losses from catastrophes in bn. USD<sup>1)</sup>    ▨ Covid-19 losses in bn. USD<sup>2)</sup>

1) Swiss Re Sigma Explorer  
2) HSBC claims tracker

**somewhat  
different**

**2**

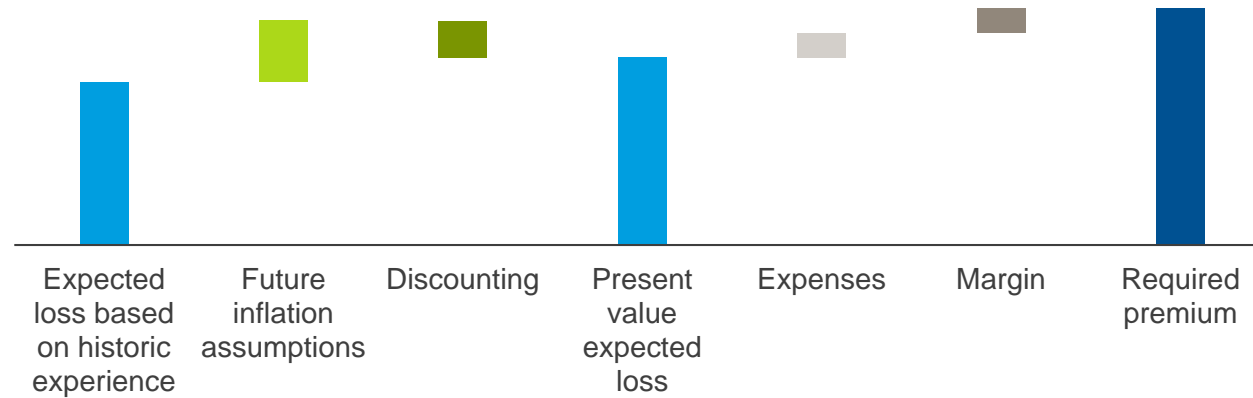
**Pricing trends**

**hannover re<sup>®</sup>**

# Inflation is fully embedded in our pricing

Historical inflation and future outlook differentiated by line of business and region

**~25%**  
of traditional business  
protected by indexation  
clauses



**384**  
different inflation indices  
used in pricing

## Short-tail property

- Forecast for building costs already adjusted early 2021
  - Uncertainty of only one year until payment of the losses

## Long-tail liability

- Increased expectation for wages & salaries and consideration of superimposed inflation (e.g. medical cost + life expectancy)
- Outside the US, terms for long-tail business include indexation clauses on the non-proportional side

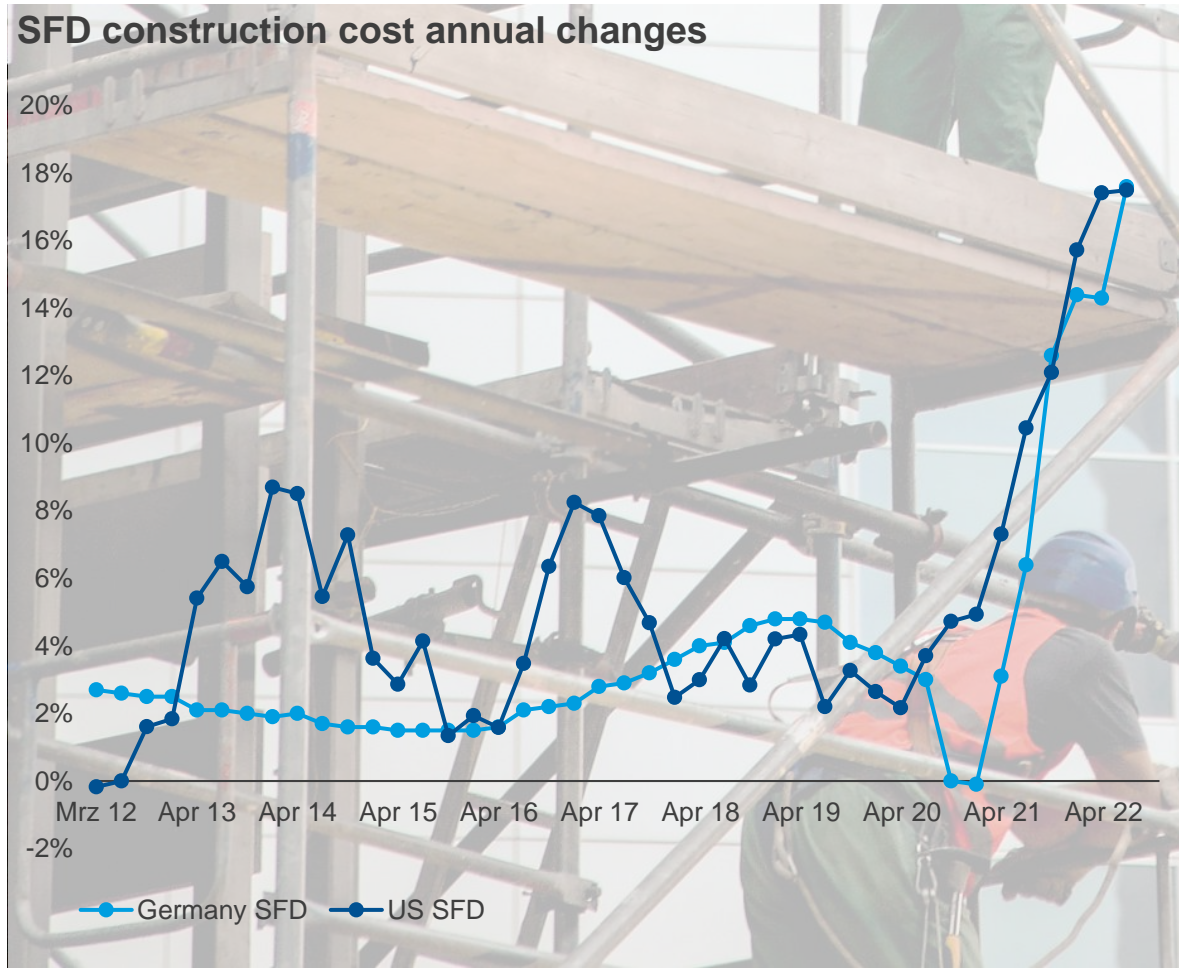
## Proportional business

- Analysis, if inflation is reflected in increasing primary insurance rates; sliding scale commissions on parts of the portfolio



# Inflation in NatCat business

## Construction cost development – Germany vs US

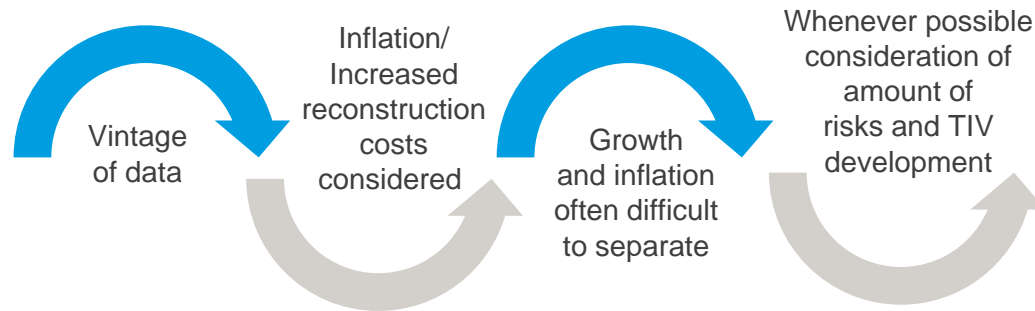


- Significant differences in the development of prices between different materials and labour.
- Depending on the damage, labour or material may be the main driver of loss
- Loss ratio has a significant impact on insured losses as destroyed buildings need to be built according to today's regulations
- Lack of material increases time element losses (BI/ALE)

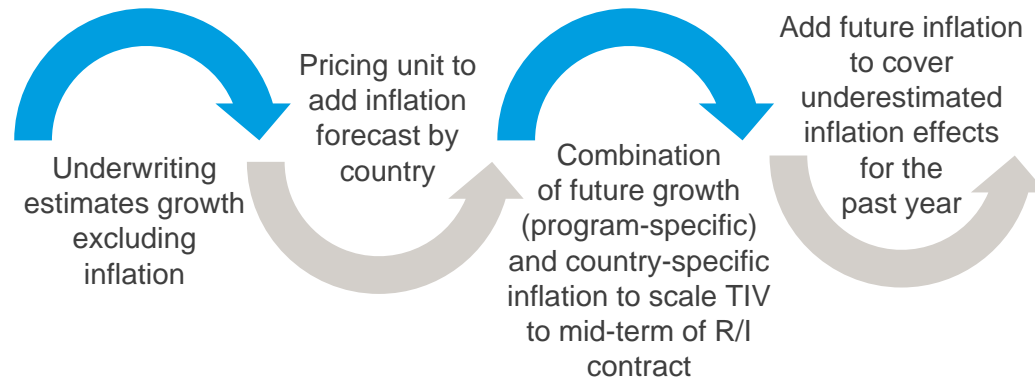
SFD = Single Family Dwelling  
Sources: Germany: Statistisches Bundesamt (destatis.de), US: [Construction Price Indexes \(census.gov\)](https://www.census.gov/construction/pix/)

# Inflation is considered on individual program level to reflect cedent-specific approaches in exposure valuation

## Consideration of provided exposure data



## Consideration of future effects



## Example: How we deal with inflation during renewal (pricing and aggregates)

Final factor:  $1.06 * 1.03 * 1.06 = 1.16 = 16\% \text{ increase}$

**Missing previous inflation:**  
 Inflation 2021 → 2022: 12%  
**minus** cedent's own inflation 2021 → 2022: 6% (estimated)  
 $12\% - 6\% = 6\%$  "missing" inflation

2021	Example	2022
	TIV <sup>1)</sup> +8%	
	#risks +2%	

average risk increases:  $8\% - 2\% = 6\%$

**6% future inflation**  
 2022 → 2023 forecast via official country-specific assumptions, not program-specific estimates

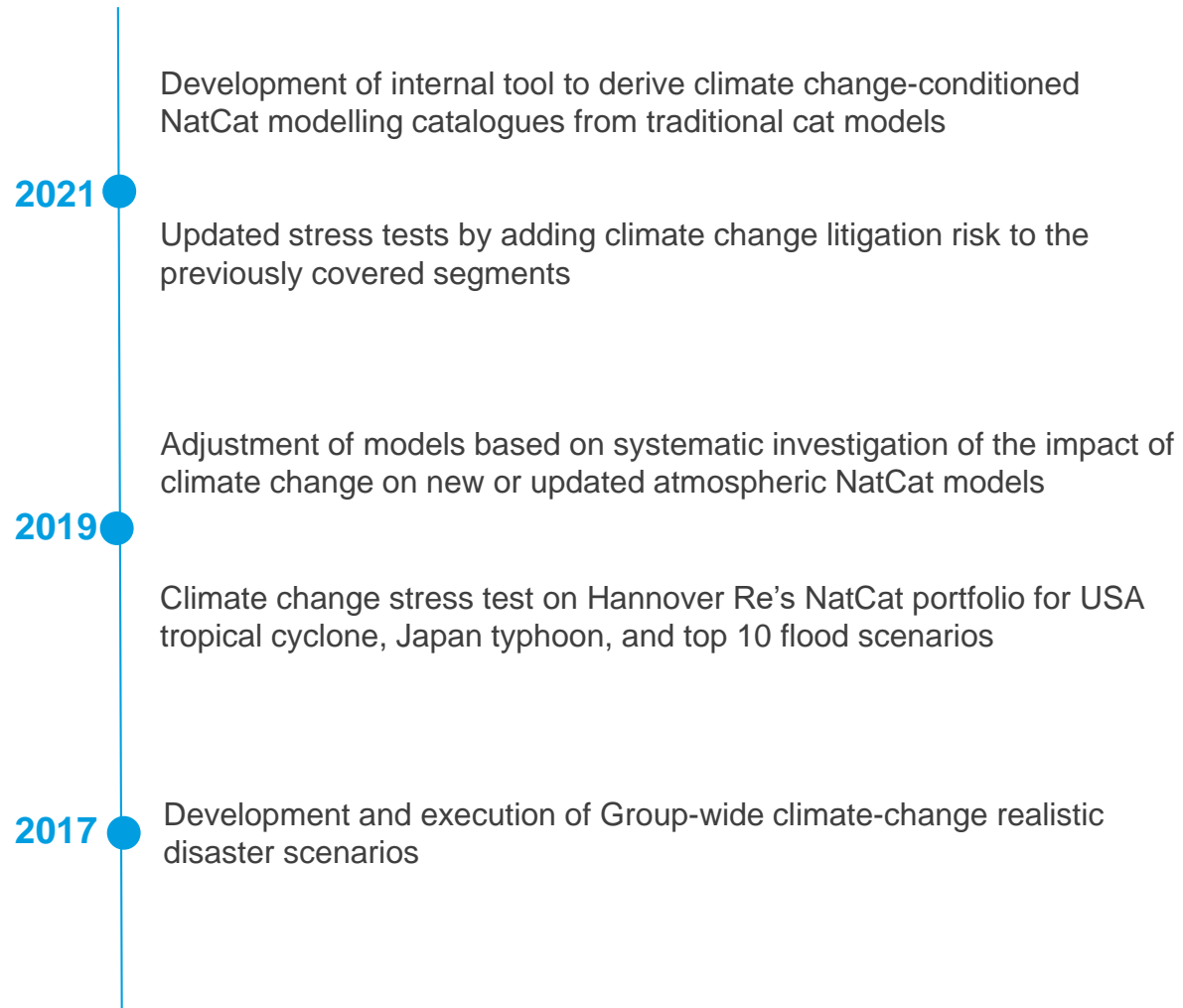
**Pure growth assumption**  
 2022 → 2023 by underwriting: 3%

**Inflation and Growth factors**  
 will be saved for future reporting/statistics

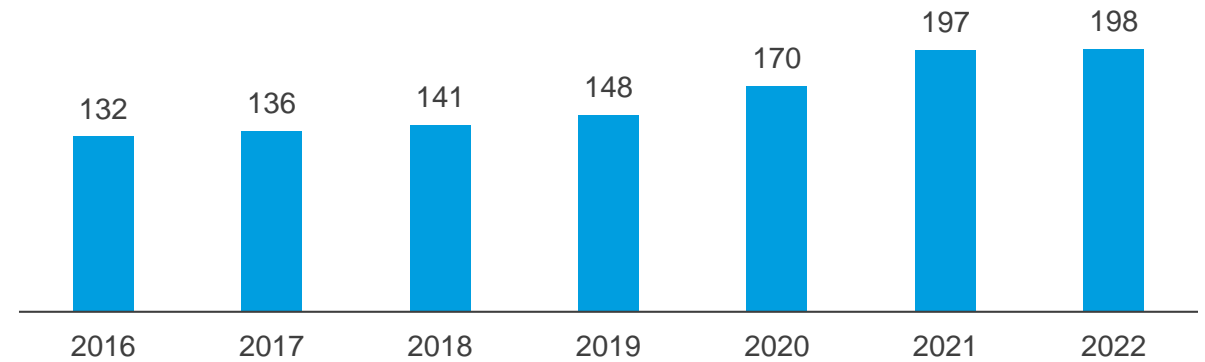
**Current inflation levels are a global phenomenon and influence all programs**

1) Total insured value

# Climate-change risks are included in modelling and pricing



## Number of country-peril combinations included in our internal model



- All top 10 NatCat scenarios (representing 2/3 of total TVaR) are adjusted regarding climate change; more than 90% per TVaR/scenario is modelled based on validated vendor models
- Regular climate-risk stress tests
- Climate change-related adjustments are implemented consistently in pricing and accumulation control
- Vendor models adjusted for own view, which is overall more conservative



somewhat  
different

3

Key takeaways

hannover re<sup>®</sup>

# Key takeaways

## Profitable growth

- Track record of diversified and profitable growth
- Increasing demand for (re-)insurance and positive pricing trends
- Increased trend towards tailor-made solutions



## Pricing

- Inflation is reflected in our pricing assumptions
- Climate change is embedded in our models and reflected in pricing



**Favourable outlook for further growth.  
Inflation and climate change risks are  
manageable.**

*hannover* **re**<sup>®</sup>