

# **Financial solutions**

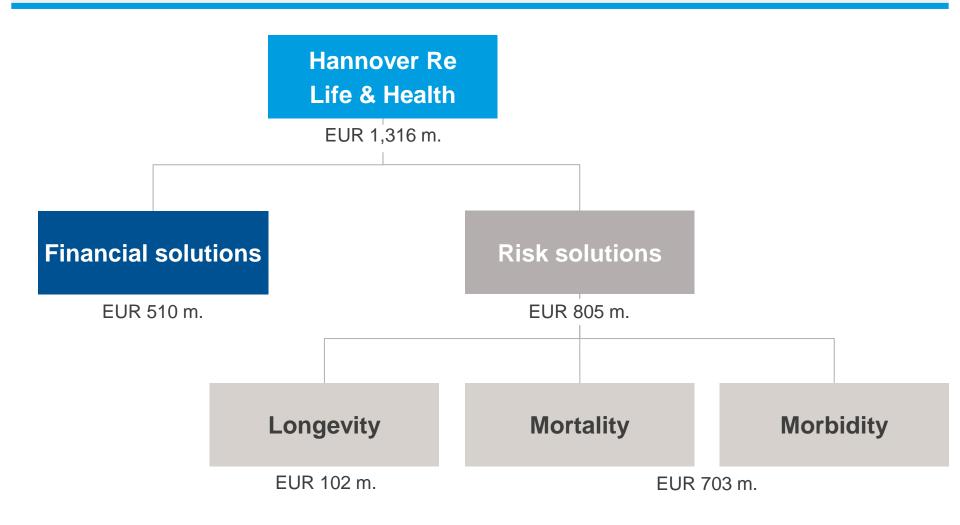
Sustainable and profitable business well worth the price

Dr. Klaus Miller, Member of the Executive Board

19th International Investors' Day London, 20 October 2016



# **Financial solutions: a solid contributor to our bottom line** EBIT contribution 2011 - 2015



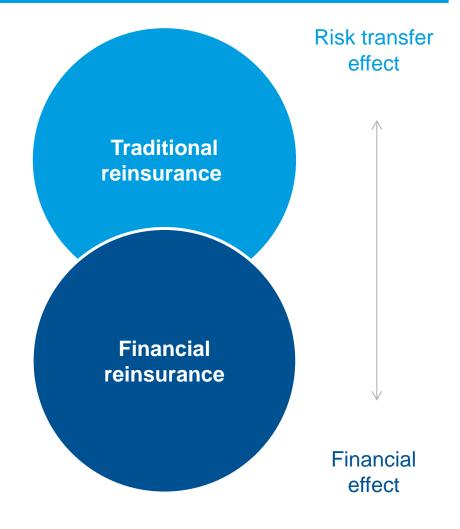
# **Financial solutions: reinsurance transactions ...**

... including transfer of biometric risks and financing components

- Financial and traditional reinsurance
  - Achieving risk transfer and financial objectives
- Traditional reinsurance
  - Transferring insurance risk to reduce the risk and volatility in the ceding company's results

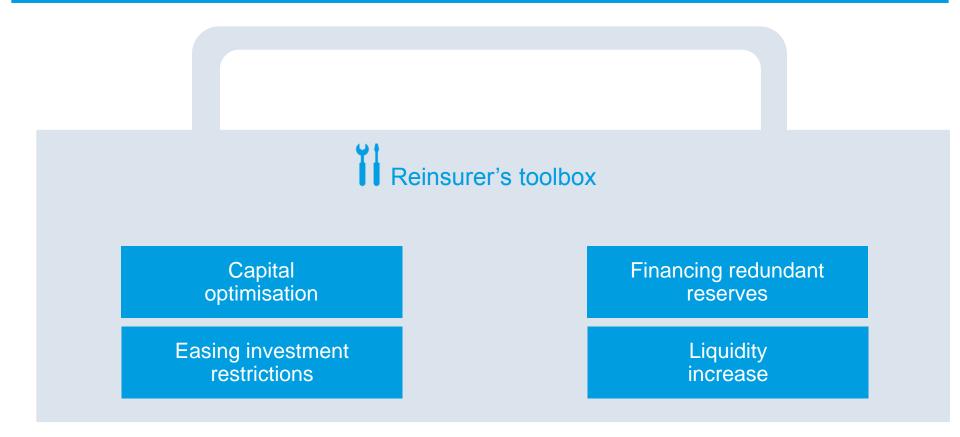
## Financial reinsurance

 Structured reinsurance agreement going beyond risk management and aiming to achieve one or more specific financial objectives for the ceding company



# Financial solutions: an alternative means to access capital ...

... to pursue new business, increase capital reserves, etc.



Risk is the currency in which we get paid for our service

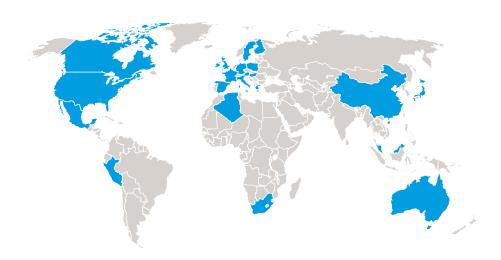


# **Our extensive track record**

We have successfully facilitated structured transactions right around the world







- Cash financing (acquisition costs & BATs)
- Start in Germany, UK, US followed by a worldwide roll-out
- XXX, AXXX, Solvency I relief, Solvency II, C-Ross, AG48, etc.

# **One important distinction: cash vs. non-cash** Depending on the client's objectives and required liquidity



## **Cash financing**

- Transaction starts with one or more cash payments from reinsurer to ceding company
- Initial amount is recuperated in the following years (incl. reinsurer's expected margin) or not if profits are not high enough due to higher claims or lapses than anticipated



# Non-cash financing

- Transaction just starts with an initial claim against the reinsurer
- Claim reduces over time if and when profits emerge: outstanding amount (if any) at the end of the agreed treaty term will be settled in cash



# **16.4% of total gross L&H premium** Financial solutions 2015



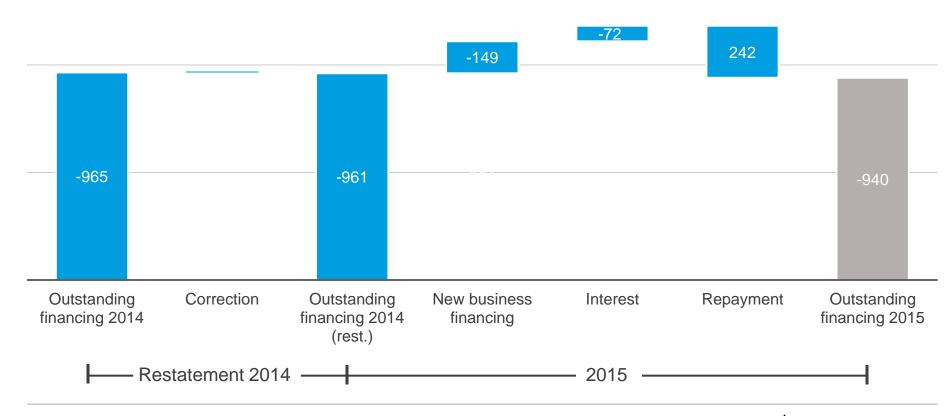
New business 2015: EUR 149 m.
Incl. failure

Same business but different markets over the years



# **Development of cash financing business life and health**

in m. EUR



# **Decrease in outstanding financing (OF) of EUR 21 m.** Analysis of change for the financial year 2015

in m. EUR

| Underwriting year | OF 31 Dec 2014<br>(rest.) | Calculated interest 2015 <sup>1)</sup> | Actual repayment 2015 <sup>2)</sup> | OF 31 Dec 2015 | Actual expected<br>RoR | Alternative RoR incl. failure |
|-------------------|---------------------------|--|-------------------------------------|----------------|------------------------|-------------------------------|
| ≤ 2006            | -147                      | -17                                    | 48                                  | -116           | 6.63%                  | 5.49%                         |
| 2007              | -8                        | 0                                      | 1                                   | -6             | 5.35%                  | 4.61%                         |
| 2008              | -178                      | -6                                     | 19                                  | -166           | 7.95%                  | 7.73%                         |
| 2009              | -43                       | -2                                     | 23                                  | -22            | 9.41%                  | 6.54%                         |
| 2010              | -51                       | -10                                    | 28                                  | -33            | 8.77%                  | 4.43%                         |
| 2011              | -118                      | -13                                    | 55                                  | -77            | 10.09%                 | 4.28%                         |
| 2012              | -124                      | -6                                     | 30                                  | -100           | 7.31%                  | 3.92%                         |
| 2013              | -110                      | -4                                     | 7                                   | -107           | 8.65%                  | 3.30%                         |
| 2014              | -182                      | -13                                    | 32                                  | -163           | 7.56%                  | 5.24%                         |
| 2015              | 0                         | 0                                      | 0                                   | -149           | 4.94%                  | 4.07%                         |
| Total             | -961                      | -72                                    | 242                                 | -940           | 7.29%                  | 5.32%                         |

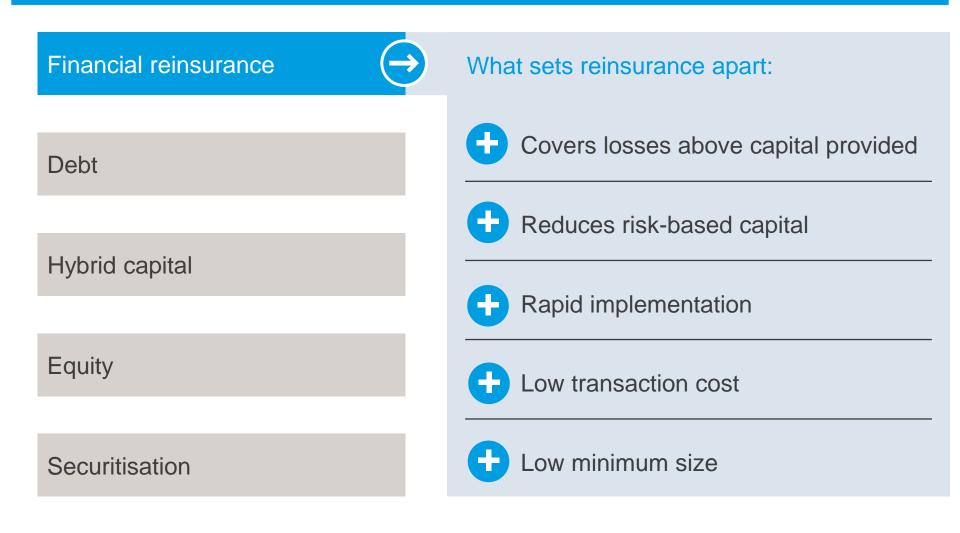
- 961 - 72 + 242 - 149 = - 940

1) Incl. change of actually expected IRR in comparison to previous year

2) Partly preliminary figures

# **Alternative capital sources**

Financial solution repayments are subject to business performance



# Individual life insurance financing landscape

A general timeline of the past 15 years in the US

# 2005 - 2007

Captives fund XXX reserves within the capital markets via securitisations

2000 - 2005 Life financing via coinsurance

### 2008

Financial crisis: funded structures become very difficult to execute

Recent evolution capital financing Regulators open to alternative financing solutions

> Banks offer conditional LOC solutions but need to hedge risks

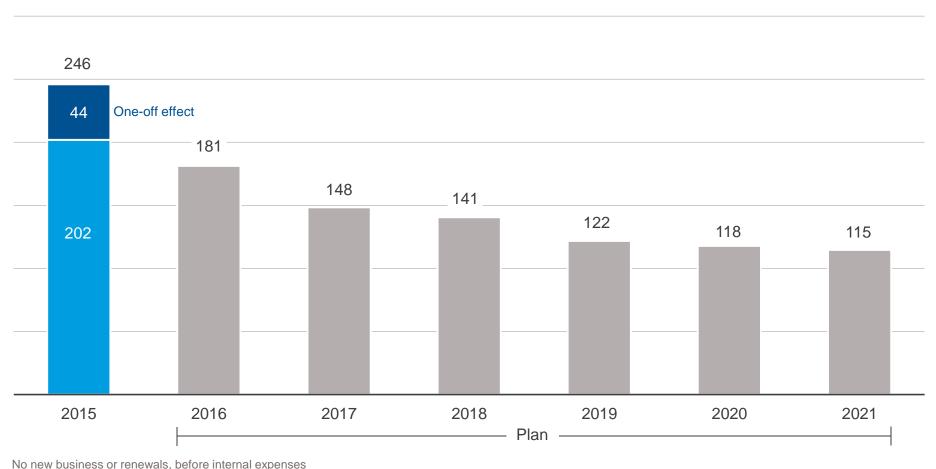
### 2011 - 2014

Increased use of captive structures and varying forms involving unfunded structures

### **Going forward**

AG48 will provide extra guidance: use of captives and alternative forms of capital financing

# **Development of in-force US financial solution business** Spike in 2015 due to one-off effect



hannover **re**®

in m. USD

**Run-off profits of current in-force block** 

# Hannover Re is 4 x "best in class by transaction type"

Reinsurer capability differentiation, US only 2015

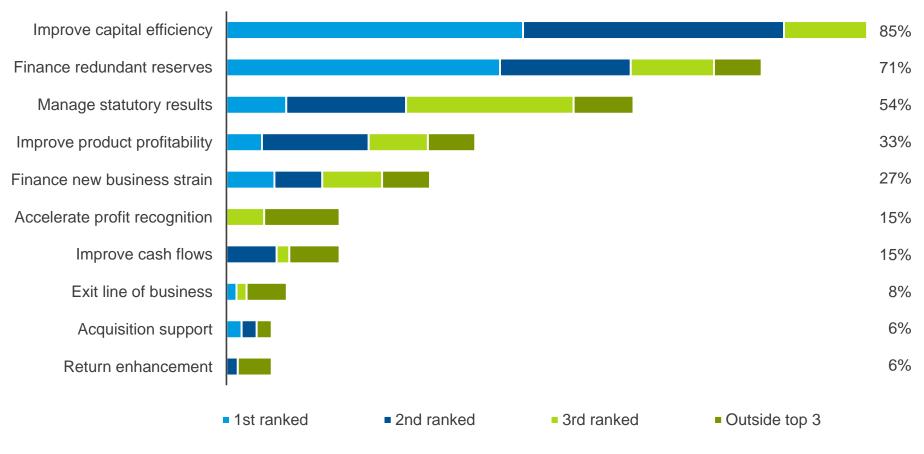
| Company     | XXX               | AXXX         | Surplus<br>relief | RBC          | EV monetisation | Cash<br>financing | Cont.<br>capital |
|-------------|-------------------|--------------|-------------------|--------------|-----------------|-------------------|------------------|
| Hannover Re | 48%               | 43%          | 18%               | 15%          | 3%              | 8%                | 3%               |
| Peer 1      | 40%               | 23%          | 13%               | 13%          | 5%              | 5%                | $\mathbf{X}$     |
| Peer 2      | 15%               | 13%          | 3%                | 3%           | $\mathbf{X}$    | 3%                | $\mathbf{x}$     |
| Peer 3      | 18%               | 20%          | 18%               | 20%          | 3%              | 3%                | 5%               |
| Peer 4      | $\mathbf{\times}$ | ×            | ×                 | 3%           | ×               | 3%                | ×                |
| Peer 5      | 3%                | ×            | ×                 | ×            | ×               | $\mathbf{\times}$ | ×                |
| Peer 6      | 8%                | ×            | 3%                | ×            | ×               | ×                 | $\mathbf{X}$     |
| Peer 7      | $\mathbf{\times}$ | 3%           | 3%                | ×            | 3%              | 3%                | ×                |
| Peer 8      | $\bigotimes$      | $\mathbf{x}$ | $\mathbf{x}$      | $\bigotimes$ | 5%              | $\bigotimes$      | $\bigotimes$     |

Source: NMG survey;  $\bigotimes$  = no citations

Percentages represent the total number of 'Best in Class' nominations for each reinsurer divided by the total number of respondents who answered this question.

# Main motivation: improvement of capital efficiency Structured financial solution usage, US only 2015

### All respondents

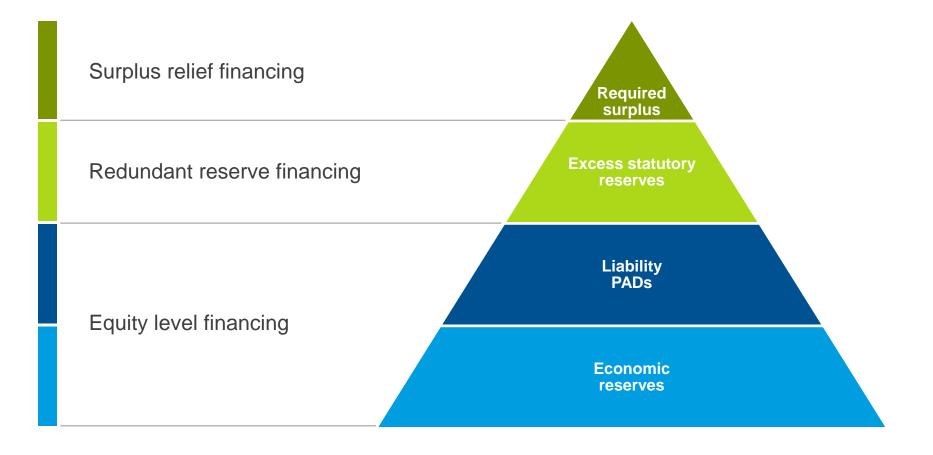


Source: NMG survey

Only factors cited by more than one key decision maker are shown

# **Capital funding has varying costs**

## Asset subordination view

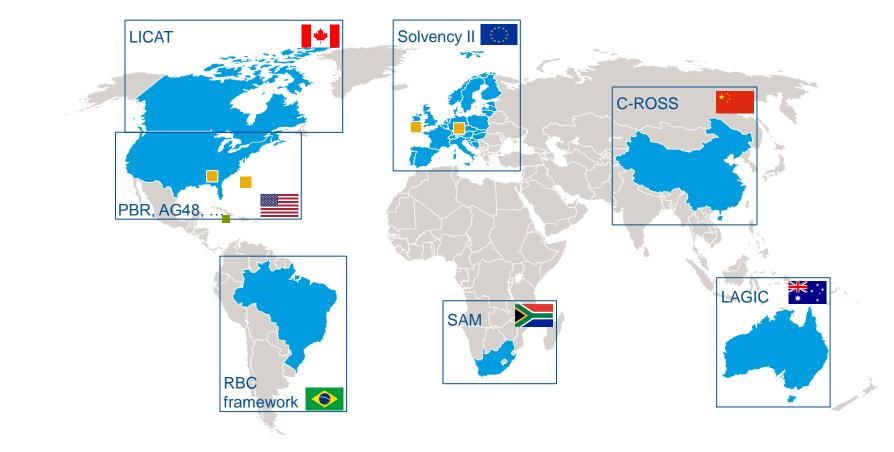


**Capital funding requirements** 

Maslow's hierarchy of needs

# Business opportunities in a dynamic global environment

Our clients benefit from our deep knowledge of local markets and regulations



Hannover Re entities with special financial solutions expertise and offerings (Bermuda, Germany, Ireland, USA)

AG: Actuarial Guideline

C-ROSS: China Risk Oriented Solvency System PBR: Principle-Based Res LAGIC: Life & General Insurance Capital Standards RBC: Risk-Based Capital

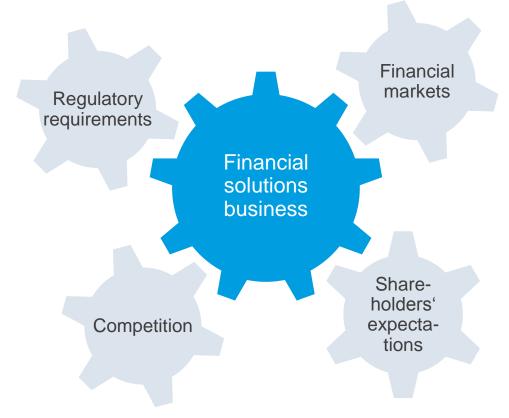
LICAT: The Life Insurance Capital Adequacy Test SAM: Solveno PBR: Principle-Based Reserving

SAM: Solvency Assessment and Management

# We are confident about the further development

## **Biggest "threats":**

- Financial markets become predictable and stable
- Shareholders are happy with lower RoEs
- Competition decreases (FinTechs never take off)
- Regulators relax their requirements significantly
  - → Not the most likely scenario



## A success story with a promising future

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