



Session 2: Value Management under a Risk-Based Capital Regime

Moderator:

Mark W Griffin FSA,CERA

Presenters:

Thomas C Wilson

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[SOA Presentation Disclaimer](#)

VALUE MANAGEMENT UNDER A RISK-BASED CAPITAL REGIME

Thomas C. Wilson
Chief Risk Officer, Allianz SE

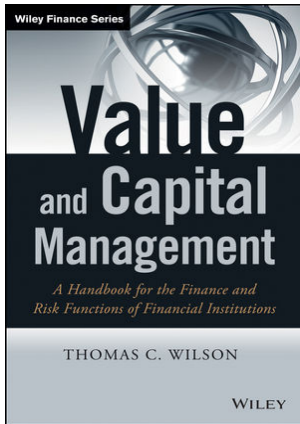
SoA ERM Symposium
Florida, 19 April, 2018



TOM WILSON



2008 – CRO, Allianz Group
2005 – 2008 CRO, ING Insurance
2002 – 2005 Global Head, Finance & Risk, Oliver Wyman
1998 – 2002 CFO, Swiss Re New Markets
1990 - 1998 Global Head, Risk Practice, McKinsey
1989 PhD Economics, Stanford
1984 BSc Business Administration, UC Berkeley



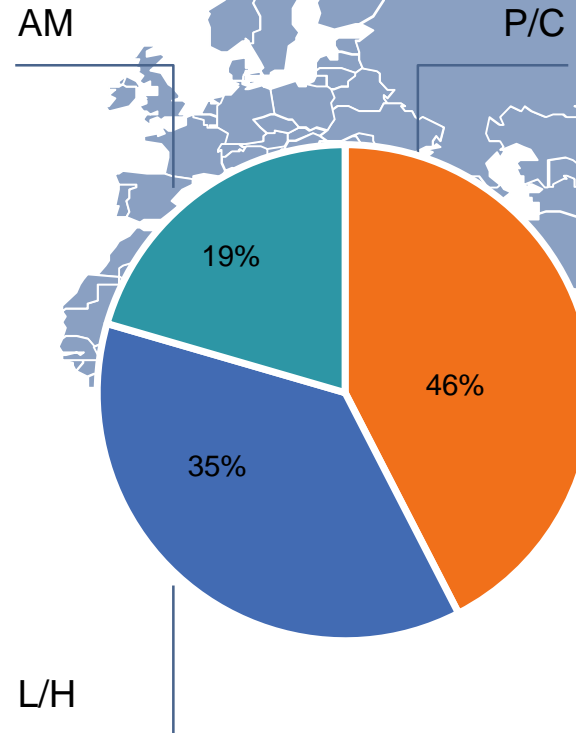
Value and Capital Management: A Handbook for the Finance and Risk Functions of Financial Institutions, 2015
Wiley Finance.

Also in Korean (2017), Chinese (2018, SUFE Press) and Japanese (forthcoming)

- One of world's **largest insurers and asset managers**
- **85+mn** insured customers
- **EUR 125+bn** total revenues
- **EUR 1,960bn** total AuM
- **EUR 11.1bn** operating profit
- **229%** Solvency II capitalization
- **EUR 83bn** market cap (Feb 2018)

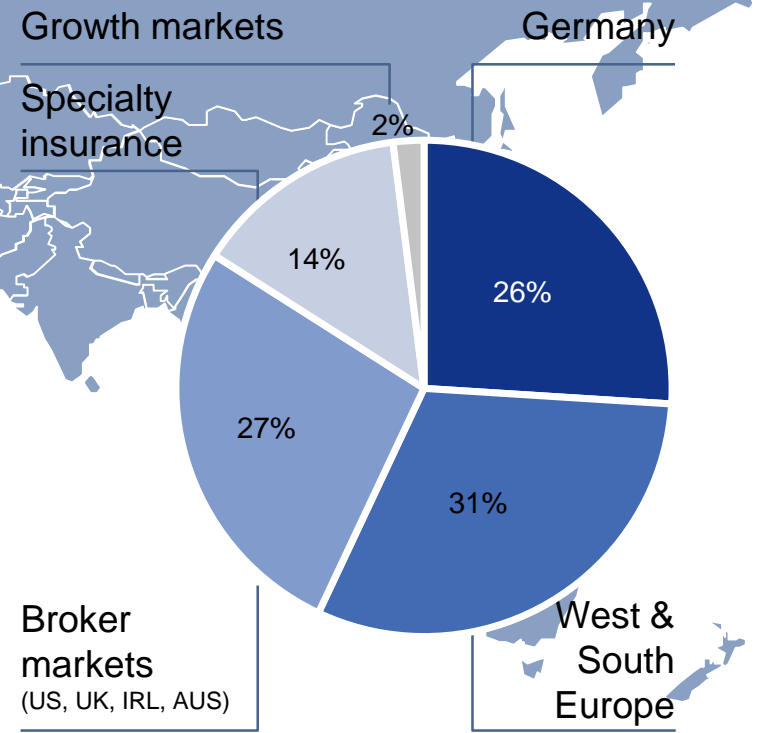
Segments

Operating profit in %
(excluding corporate segment)



Regions

(2016) Operating profit in %





CONTENT

01

ROLE OF CAPITAL IN VALUE CREATION

Insurance is a risk-based, long-term, capital intensive business. What role does capital play in value management?

MANAGING CAPITAL AND VALUE

02

Managing value requires an alignment of risk appetite, capital and business planning combined with a dynamic ORSA process. What are some lessons learned under a risk-based regime?

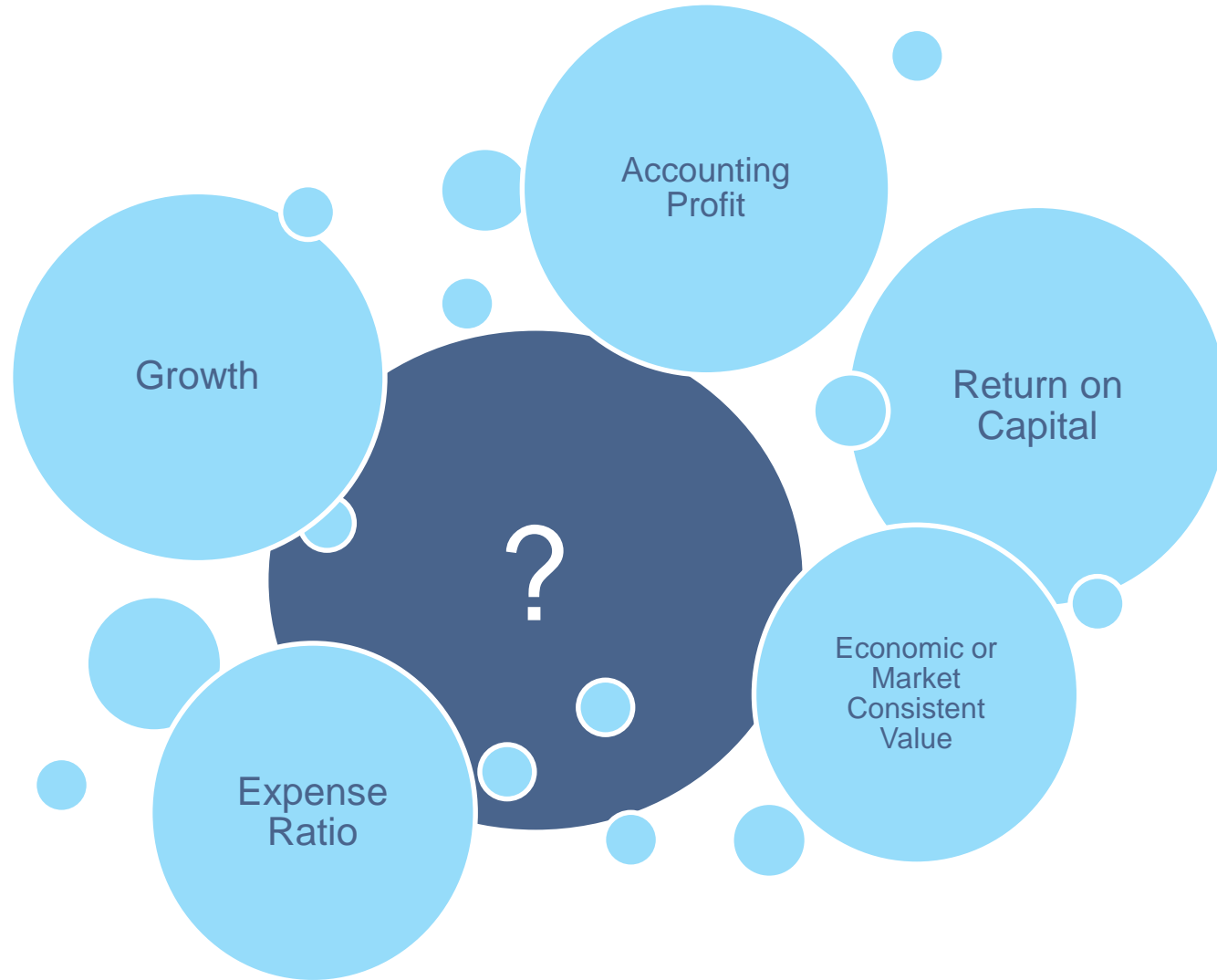
ROLE OF RISK AND ACTUARIAL

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Managing value and capital in insurance is complex with substantial implications for business strategies. How can risk and actuarial support the process?

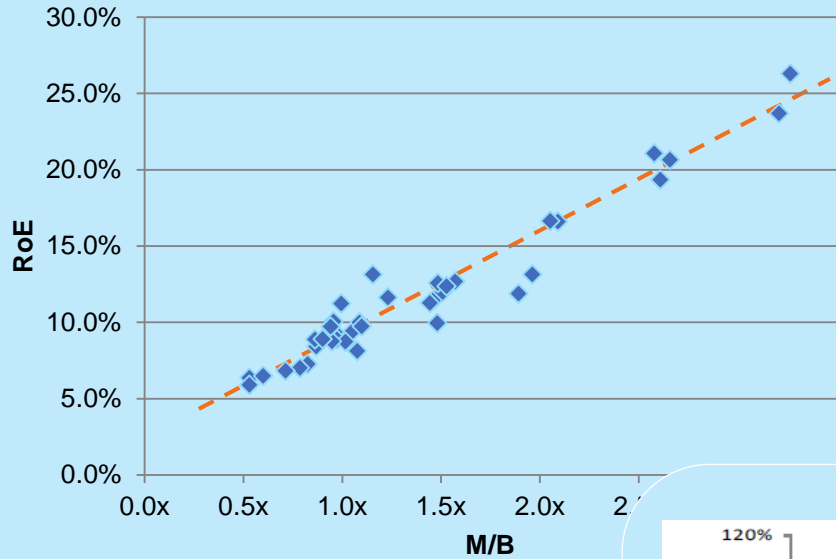


WHAT DRIVES SHAREHOLDER VALUE IN INSURANCE?



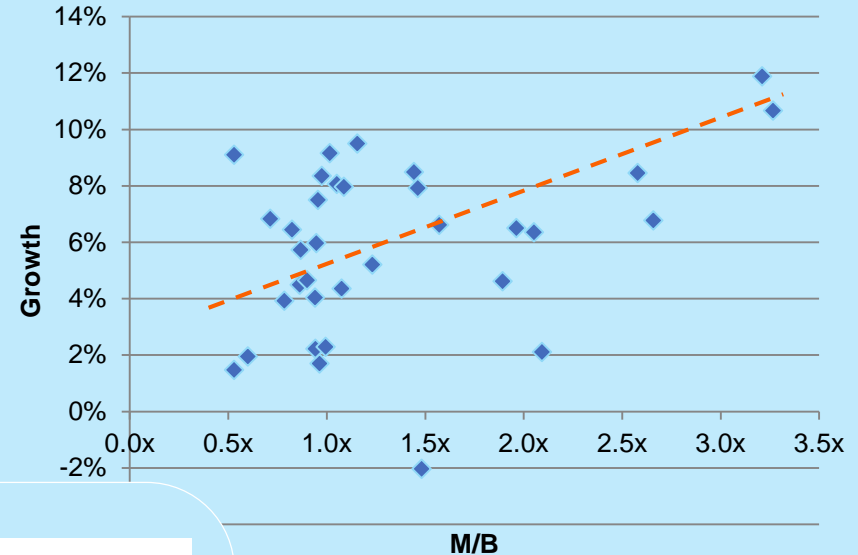


WHAT DRIVES SHARE VALUATIONS?

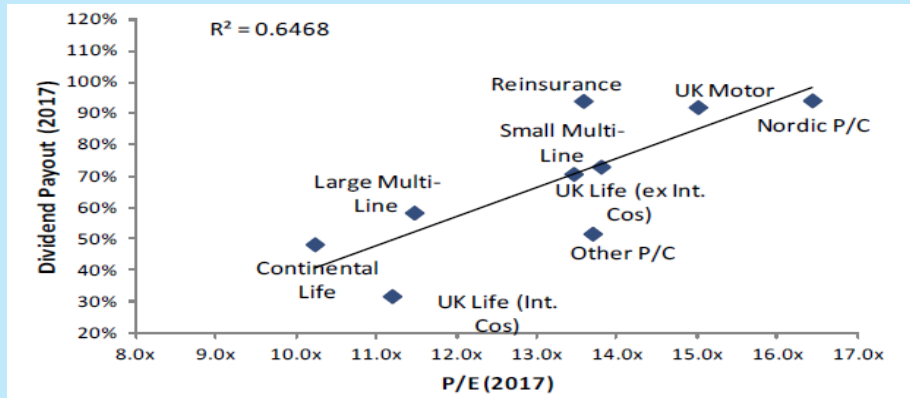


Operating profit, Capital in

Profitable
Growth &
Dividends



Growth



Dividends in lieu of growth

- Aegon
- Ageas
- ASR
- NN Group
- AXA
- SCOR
- Allianz
- Hannover Re
- Munich Re
- Generali
- Mapfre
- Poste Italiane
- Gjensidige
- Sampo
- Storebrand
- Swiss Life
- Swiss Re
- VIG
- ZIG
- Aviva
- L&G
- Phoenix
- Prudential
- Std Life Abdn
- Direct Line
- Hiscox
- Lancashire
- RSA
- Saga

* BofA Merrill Lynch European Insurance Valuation Sheet, Feb 2018, Allianz analysis

RoE = Return on Equity, M/B = Market to Book valuation multiple, P/E = Price to earnings valuation multiple



THE „THEORY“ AND THE PRACTICE

$$\frac{M}{B} = \left(1 + \frac{RoE - CoC}{CoC - g} \right)$$

Excess Returns
to Shareholders

Present Value
of a Perpetuity

RoE = Return on Equity
CoC = Cost of Capital
g = Growth

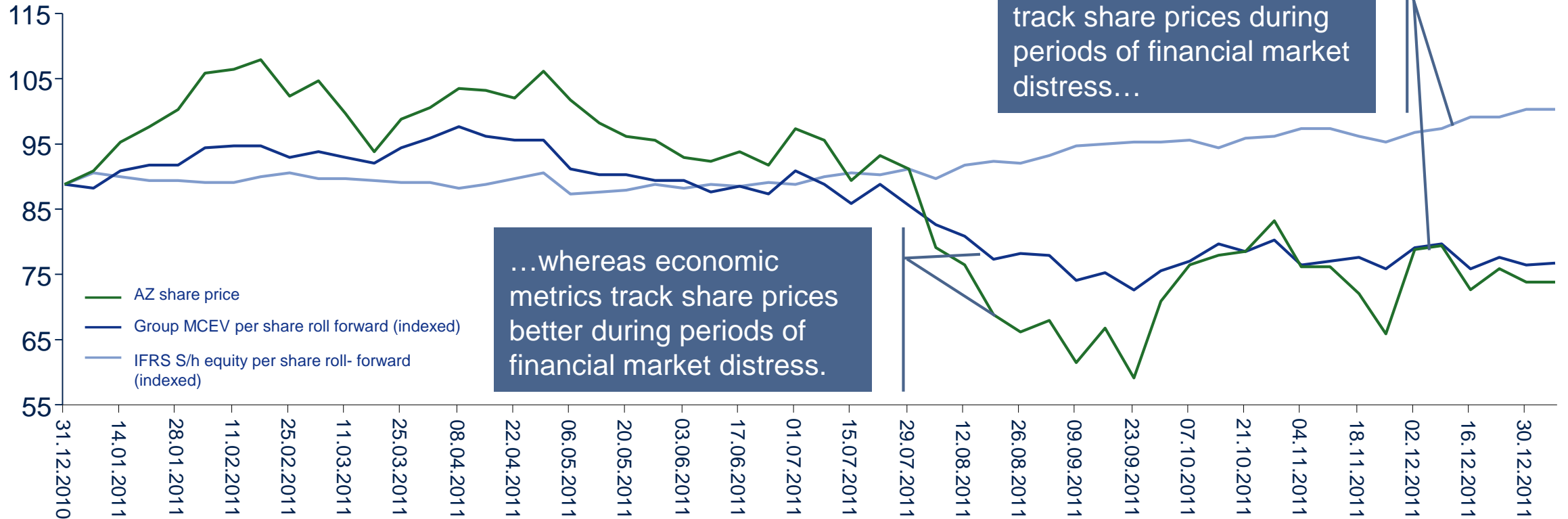
	Life	P&C
M/B 2008e	1,08	1,46
RoE 2019e	10,82	12,35
Normalized EPS growth 2019e	3,9%	4,9%
Implied M/B	1,13	1,46
Aegon	Swiss Life	Allianz Swiss Re
Ageas	VIG	Hannover Re Zurich
ASR	Aviva	Munich Re Direct Line
NN Group	L&G	Mapfre Hiscox
AXA	Phoenix	Gjensidige Lancashire
Generali	Prudential	Sampo RSA
Poste Italiane	Std Life Abdn	Storebrand Saga

* BofA Merrill Lynch European Insurance Valuation Sheet, Feb 2018, Allianz analysis



VALUATIONS TRACK ECONOMICS DURING CRISIS

Allianz share price vs MCEV- and IFRS equity roll-forward*, 2011



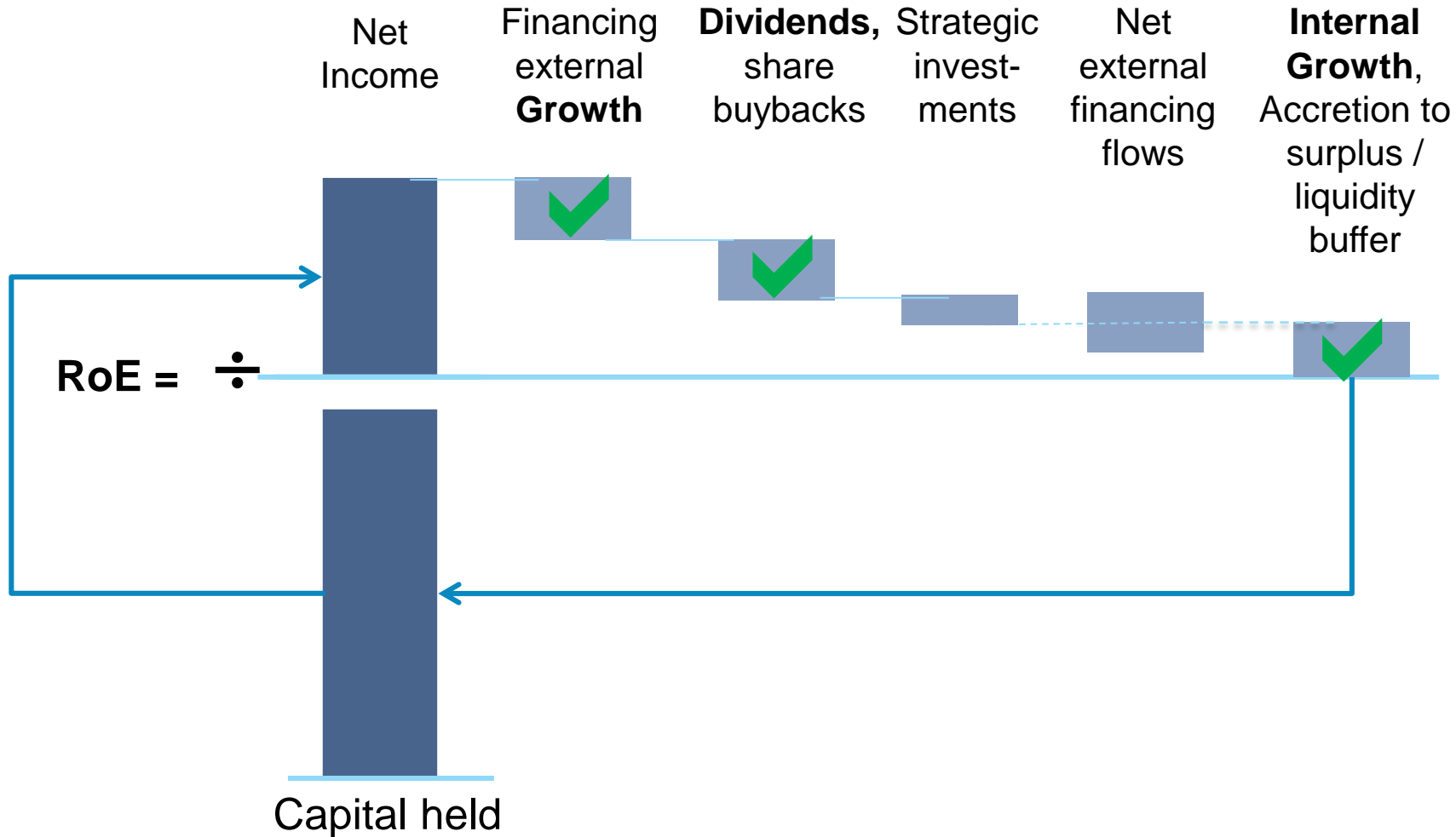
Accounting metrics do not track share prices during periods of financial market distress...

...whereas economic metrics track share prices better during periods of financial market distress.

* Roll-forward based on 2010 disclosed IFRS and MCEV sensitivities without quarterly rebalancing.



THE MECHANICS OF VALUE AND CAPITAL MGMT



Managing value requires a sustainable cycle of profitable growth and returns to shareholders, supported by capital management

SHAREHOLDERS AGREE...

“Earnings analysis is of limited use ... We prefer composites that i) generate strong cash flow after ‘maintenance capex’ ... , ii) have high growth capex that supports future earnings and iii) ... surplus cash generation, driving financial flexibility and the ability to redeploy capital for growth.”

Morgan Stanley 2012

“(Investors need to understand)... how the capital is spent ... We are supportive of investment in new business ... (if it generates) IRRs above the company’s cost of capital and with reasonable payback periods . . . (but) business at or sub 9% IRRs which takes 9 years to break even ... is not a viable source of value for shareholders.”

Barclays 2011

“(In lieu of profitable growth opportunities)...dividends have been the key attraction for investors in the European insurance sector. A focus on cash and dividends has driven the sector to an unprecedented fourth consecutive year of outperformance of the European equity market...

Regulatory capital is the fuel for dividends ... (and) Given the importance of dividends we think it is crucial to understand how capital will be generated going forward.”

Morgan Stanley 2016

...capital management is value management!





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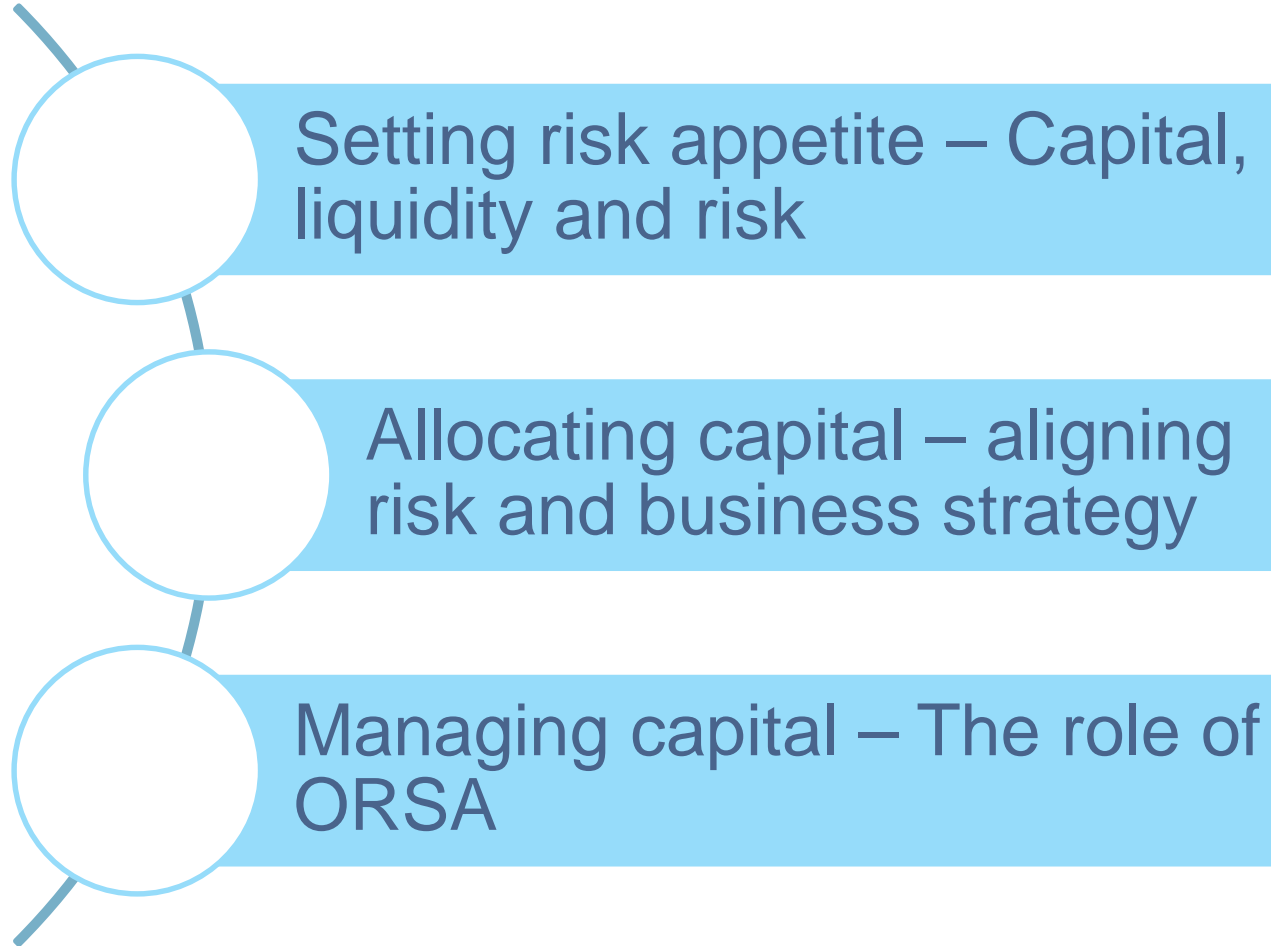
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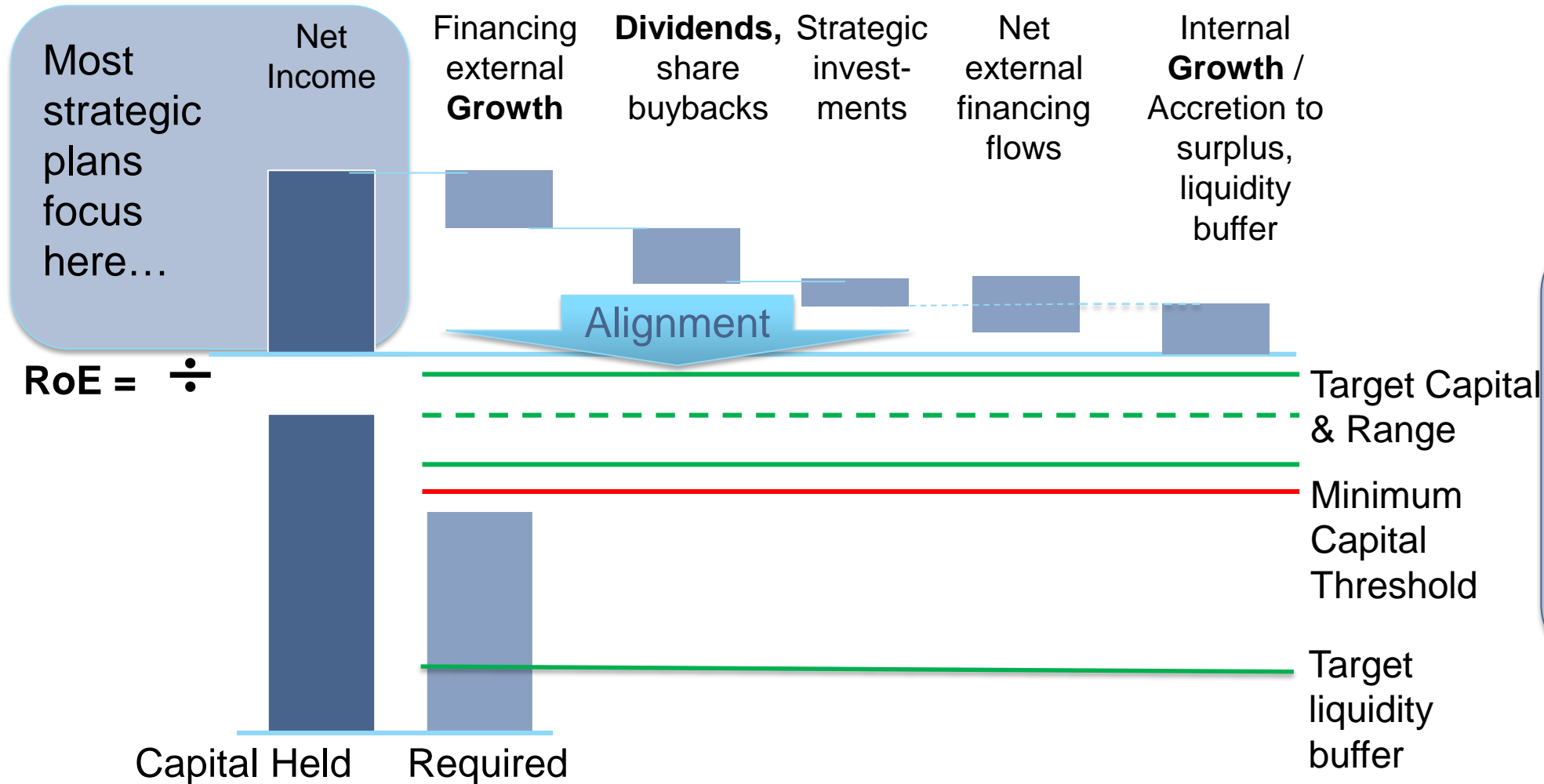


HOW TO MANAGE CAPITAL AND VALUE?





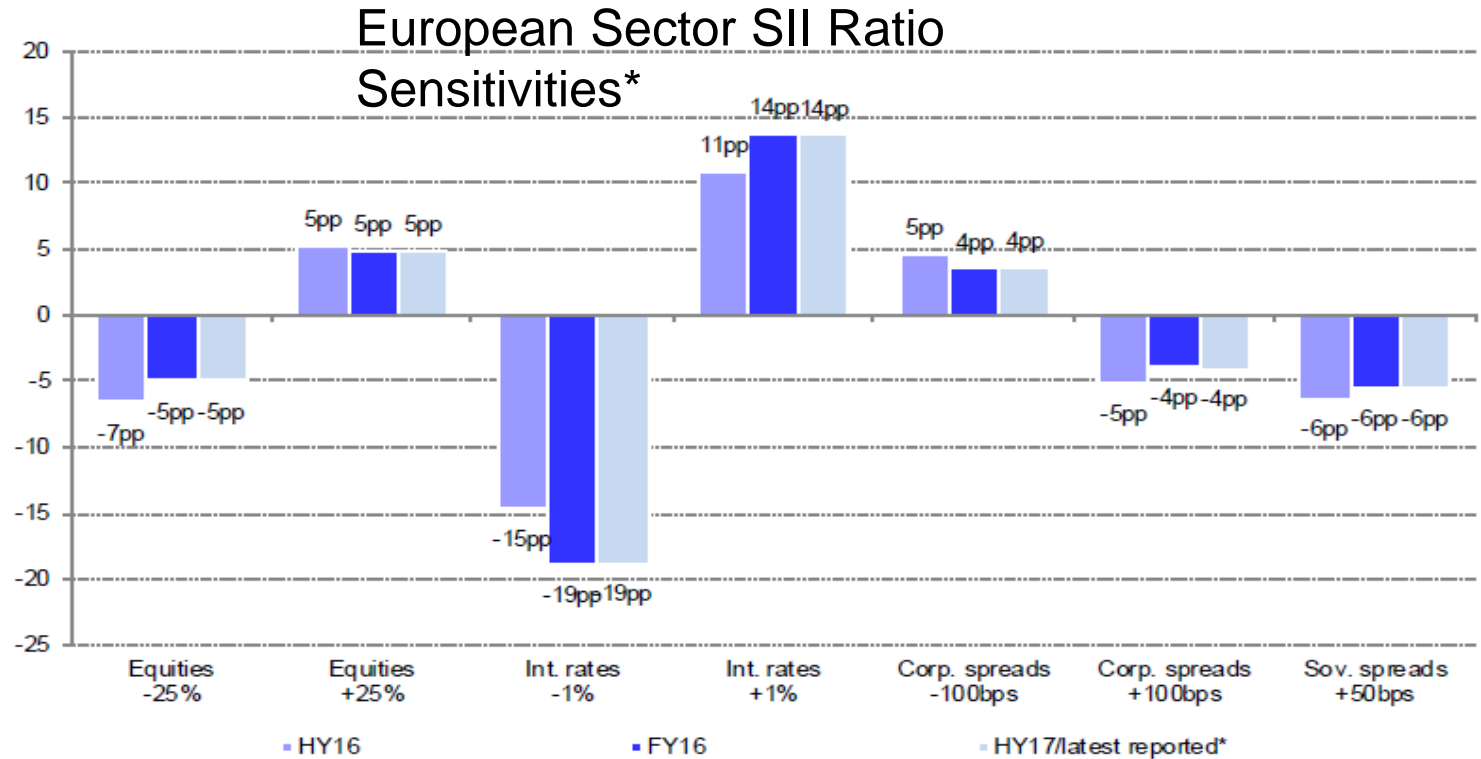
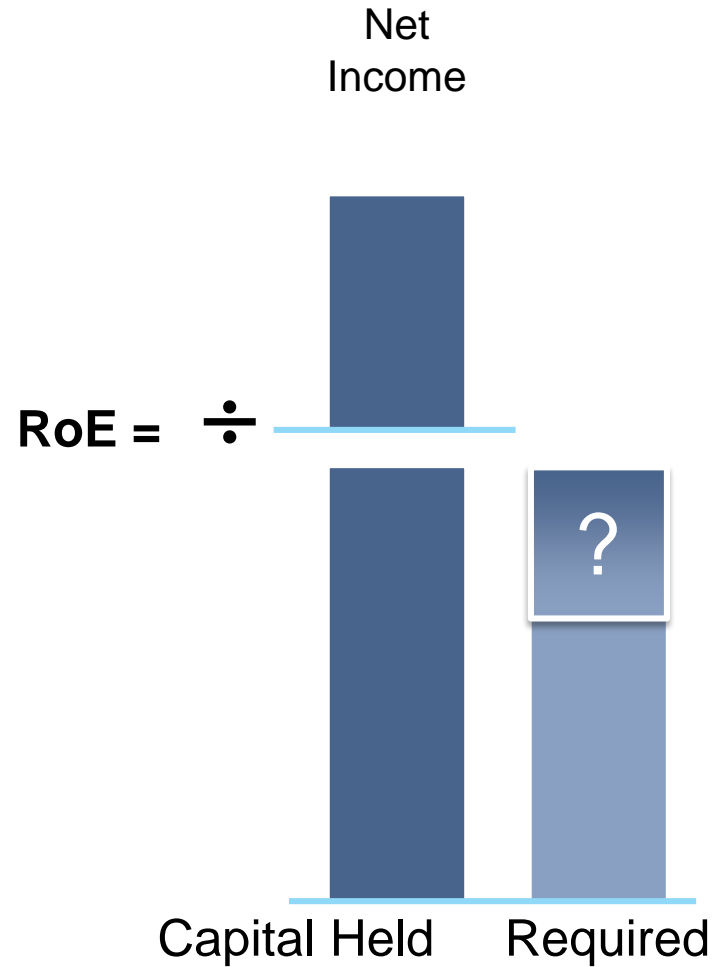
CAPITAL AND LIQUIDITY THRESHOLDS



... often missing is the Capital Budget, a multi-year view aligning business-, capital- and & risk-strategy



OPTIMAL CAPITAL BUFFER AND RISK-BASED REGIMES

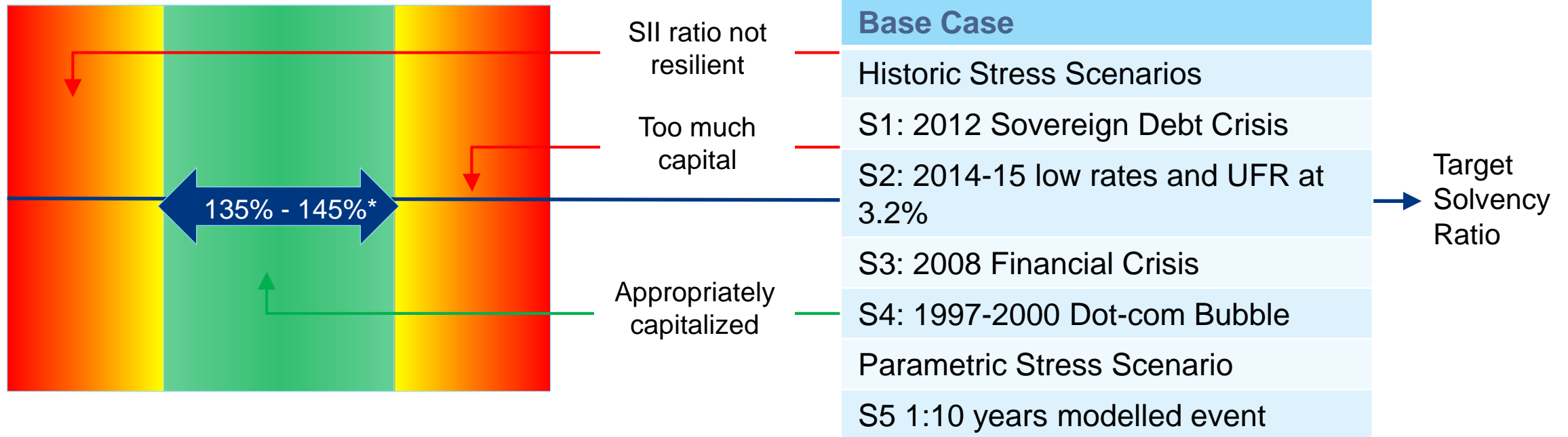


* Deutsche Bank, European Insurers – Solvency Matters, Feb 2017



ALLIANZ SOLVENCY MANAGEMENT RATIO

Minimum ratio after the worst stress



* Up to 10%p for SII credit spread risk, deemed less relevant for liability driven investors

Scenario-based process also for liquidity buffer (idiosyncratic, systemic scenarios)



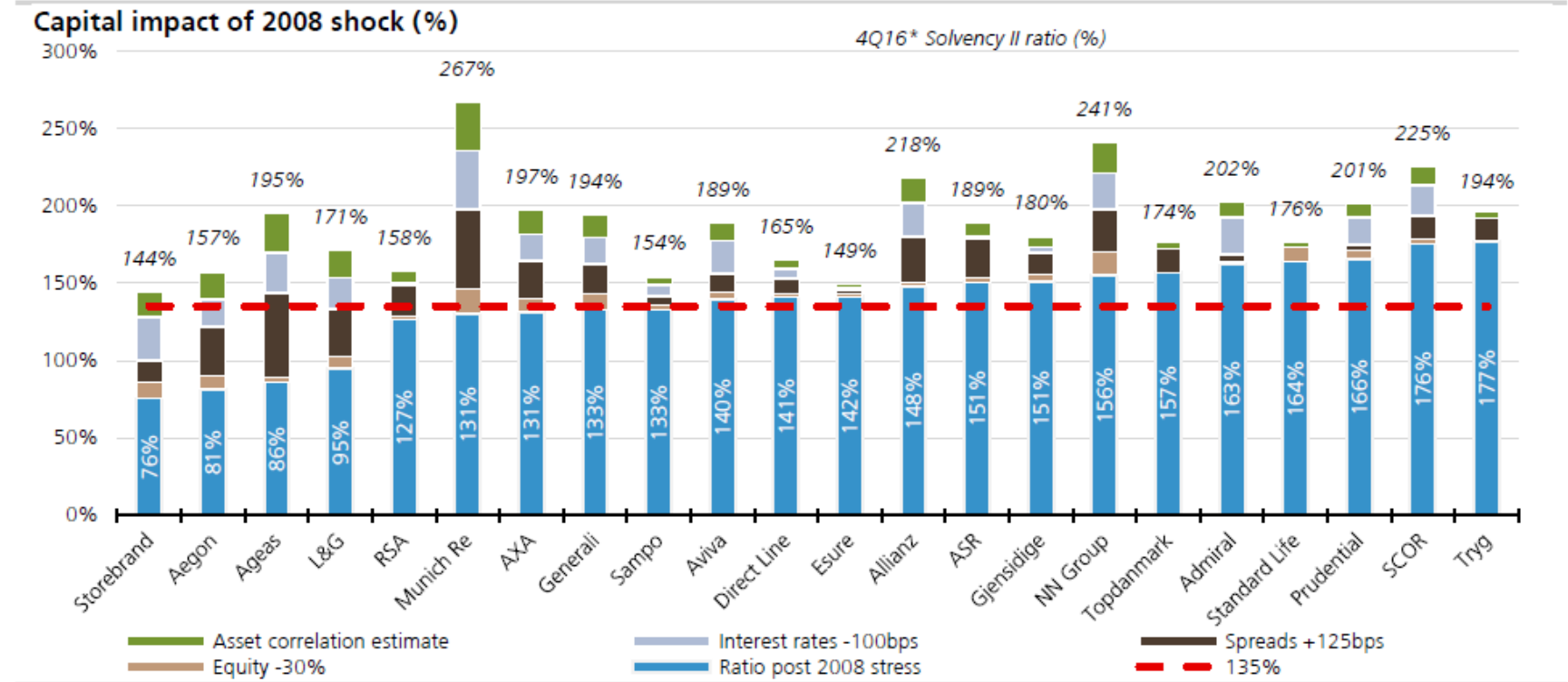
INDUSTRY ACCEPTANCE OF ALLIANZ APPROACH

Figure 5: Methodology

We highlight the following on our methodology:

- The basis of this methodology is centred on how Allianz calibrates its Solvency II target range. It calibrates its Solvency II target level as a Solvency II ratio that would enable it to absorb a 2008 shock, and remain above a 135%, a level where the company believes it would not need to raise capital. Allianz has disclosed an 80ppt hit from a 2008 scenario; a 'floor' of 135% therefore implies it targets a Solvency II ratio of 205%, in the middle of its 180-220% range;
- In calculating this 2008 scenario, we stress for movements observed in the 18 months from the date Lehman Brothers filed for bankruptcy (15 September 2008). This equates to 125bps widening in credit spreads, a 30% reduction in equity markets and a 100bps reduction in yields;
- Note that we have adjusted for positive spread sensitivities as we do not see these as a real world reflection of the risks. Please see adjacent footnotes;
- Backing out Allianz's disclosed 80ppt hit for a 2008 Solvency shock, implies an amplification of 1.3x to its disclosed sensitivities due to correlation between sensitivities. We apply this 1.3x factor to companies disclosed sensitivities (see Figure to the right). This is consistent with the average diversification credit (c30%) across the sector.

Figure 7: Illustrative capital positions after 2008 shock to 4Q16 capital positions

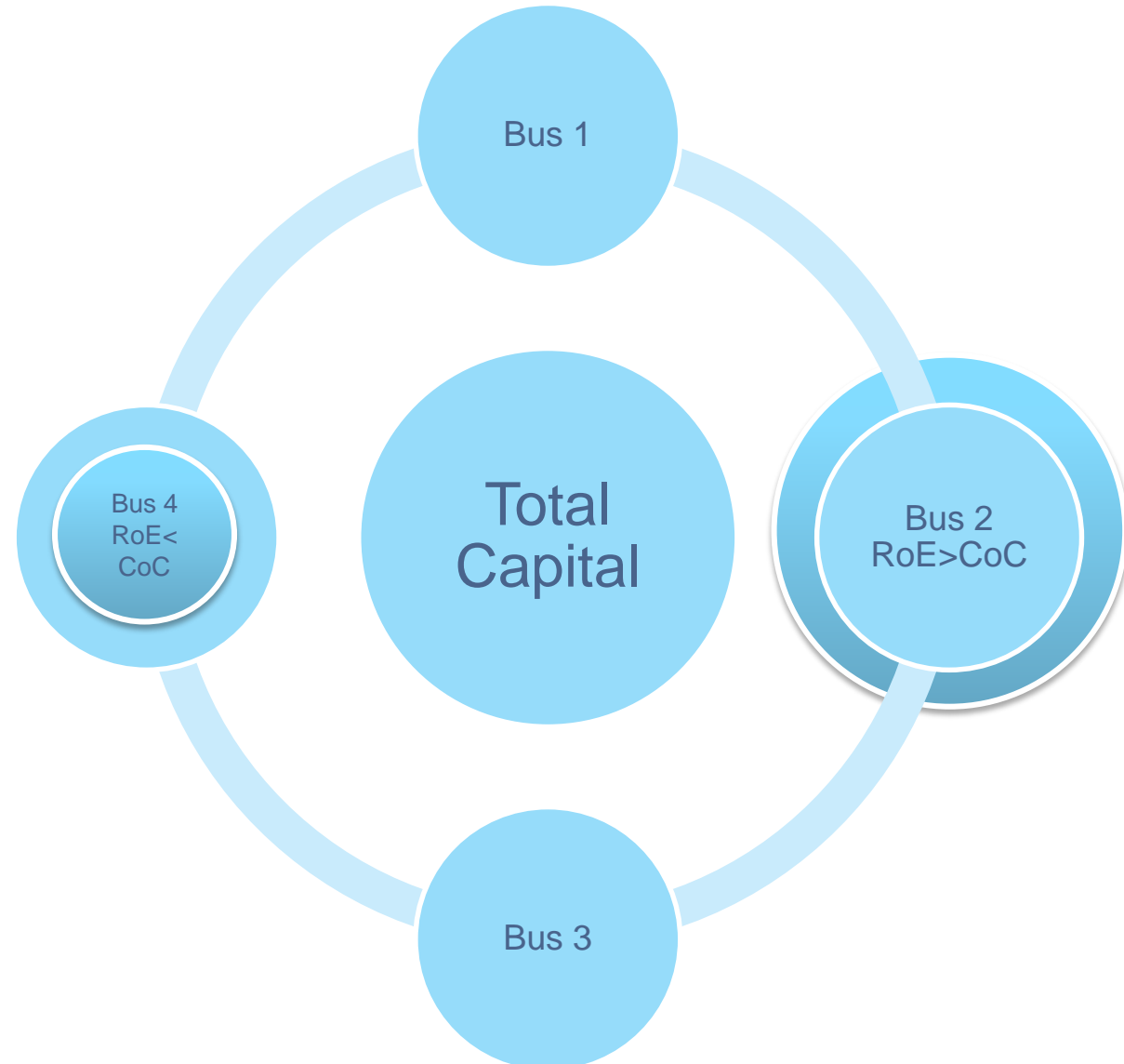


Source: UBS estimates. *4Q16 UK Life shown on a shareholder basis, except Standard Life.

ALLOCATING CAPITAL: SIMPLE RULES...

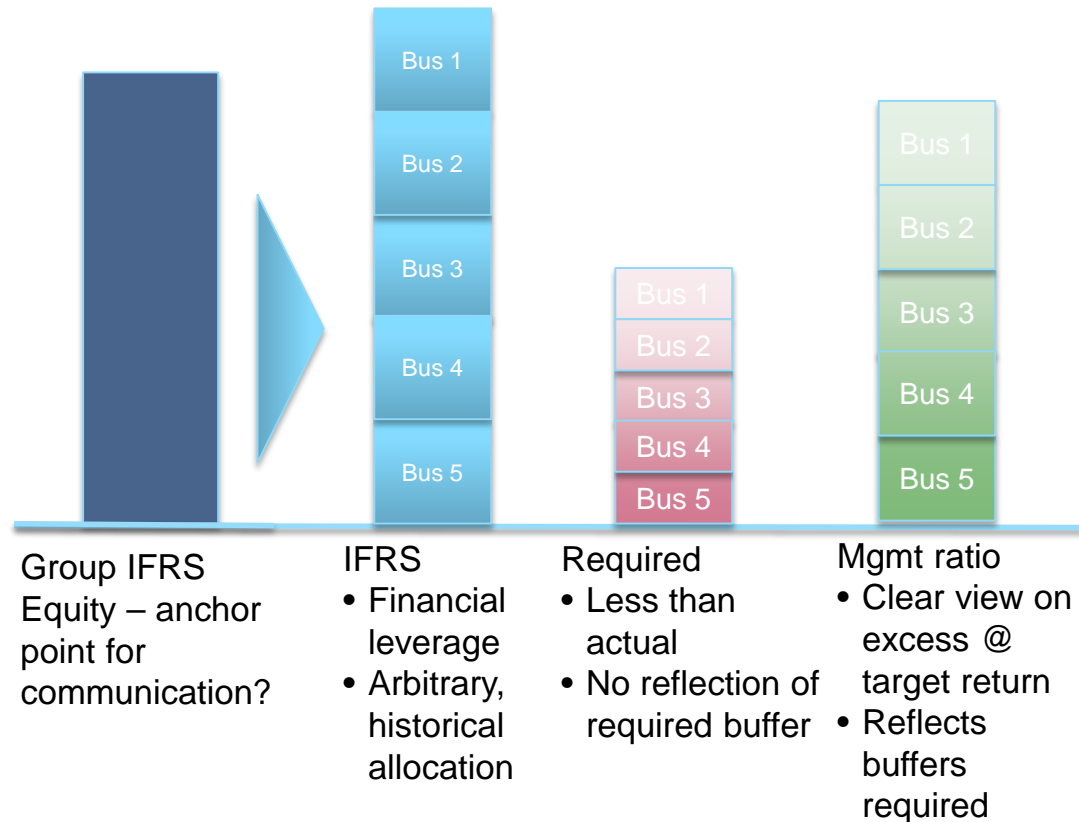
Simple Rules

- Don't invest if long-run returns below the cost of capital – fix or exit the business
- Invest as much as possible if long-run returns above the cost of capital, even raising capital if necessary - grow
- Maintain resilient capital structure, respecting regulatory constraints and risk appetite
- Return excess capital to shareholders

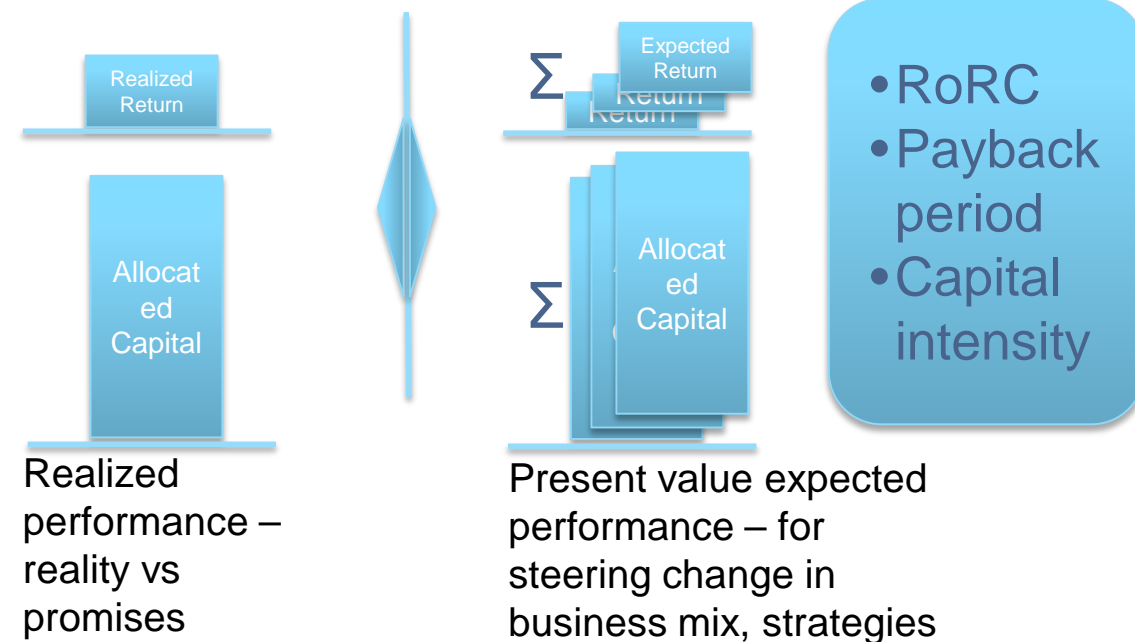


ALLOCATING CAPITAL: ... COMPLEX PROBLEM

Complexity 1: Allocation to business



Complexity 2: Backward, Forward View



MANAGING CAPITAL AND VALUE: ORSA

⚡ From

✓ To





AGENDA

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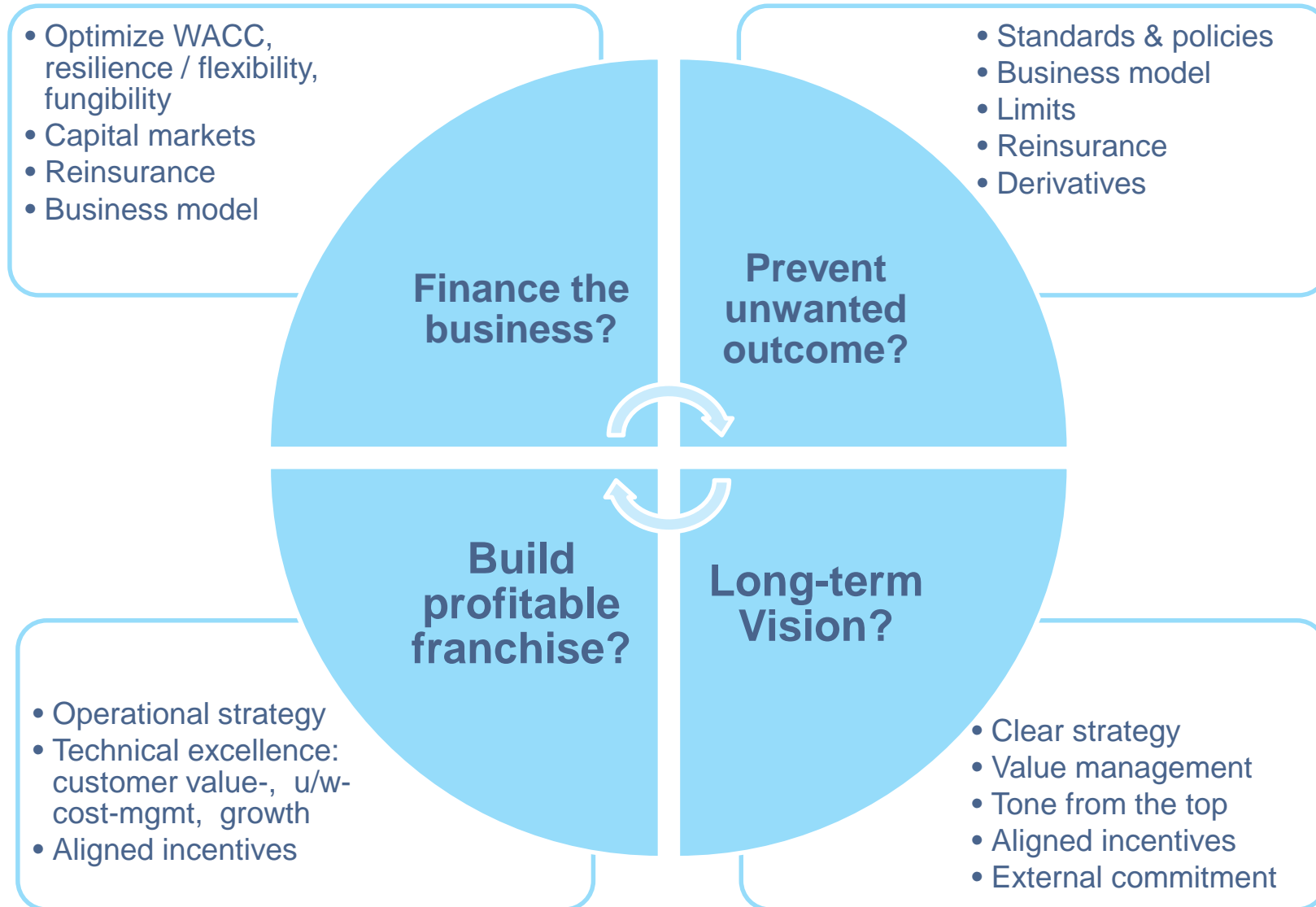
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MANAGING VALUE AND CAPITAL





...IN A „TEAM SPORT“



ROLE OF RISK AND ACTUARIAL

- Senior partner in the business – „tone at the top“
- Aligned objectives: Focus on long-term sustainable value creation
- Provide technical information, advice and an opinion
- Balance between IQ, EQ and leadership

Thank you very much for your attention!

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