

Agenda

The Big Picture
2016 Key Issues
Observations & Expectations
Alternative Capital Update

FitchRatings

www.fitchratings.com

Natural Catastrophe Losses

Insured Losses Remain Historically Low Driving Price Softening

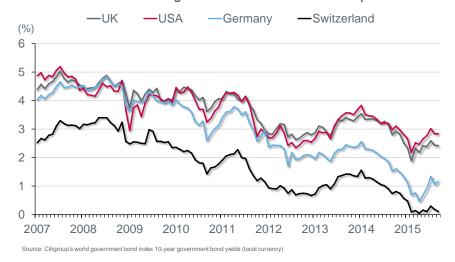
Date	Event	Location	Economic Loss (USDbn)	Insured Loss (USDbn)		
Feb	Winter storm	US/Canada	2.4	1.8		
Mar/Apr	Winter storm	Europe	1.4	1.0		
Apr	Severe storm	US	1.4	1.0		
Apr	Severe storm	US	1.1	0.8		
May	Severe storm	US	1.3	0.8		
Overall 1H15 Total			35.0	12.0		
Total 2014 (1H14)			110.0 (60.0)	31.0 (23.0)		
Total 2013 (1H13)			140.0 (66.0)	39.0 (21.0)		
Total 2012 (1H12)			173.0 (58.0)	65.0 (19.0)		
Total 2011 (1H11)			370.0 (302.0)	115.8 (81.7)		
Source: Munich Re NatCatService						

FitchRatings

www.fitchratings.com

2

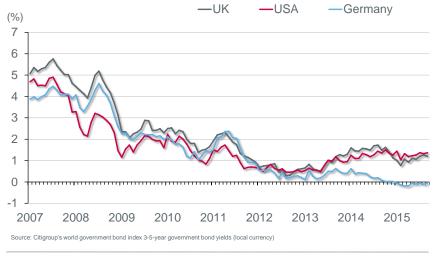
Investment Yields — Selected Major Sovereigns Low Yields Maintain Earnings Pressure / Attract External Capital



FitchRatings

www.fitchratings.com

Investment Yields – Selected Major Sovereigns Low Yields Maintain Earnings Pressure / Attract External Capital



FitchRatings

www.fitchratings.com

2016 Key Issues

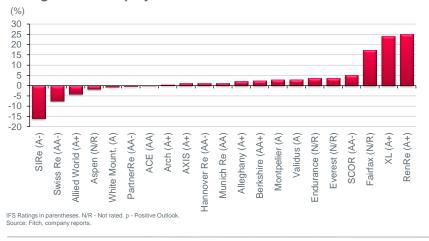
- 1. Managing through protracted soft market requires discipline
- 2. Prospect of M&A could fuel complacency
- 3. Alternative capital capacity will continue to impact market

FitchRatings

www.fitchratings.com

Capital Remains Strong – Development Uneven

Change in 1H15 Equity - Reinsurers



FitchRatings

www.fitchratings.com

6

Share Repurchase Activity Decreases

(USDm)	H115	H114
Ace Limited	750	557
Alleghany Corporation	41	160
Allied World Assurance Company Holdings Ltd.	246	138
Arch Capital Holdings Ltd.	362	-
Aspen Insurance Holdings Ltd.	84	31
AXIS Capital Holdings Ltd.	26	318
Berkshire Hathaway Inc.	-	-
Endurance Specialty Holdings Ltd.	-	-
Everest Re Group, Ltd.	125	325
Fairfax Financial Holdings Ltd.	60	20

Source: Company reports

FitchRatings

www.fitchratings.com

Share Repurchase Activity Decreases (cont.)

(USDm)	H115	H114
Markel Corporation	23	17
Montpelier Re Holding Ltd.	-	94
Munich Re	340	1,097
RenaissanceRe Holdings Ltd.	1	315
PartnerRe Ltd.	71	316
Platinum Underwriters Holdings Ltd.	-	111
Validus Holdings Ltd.	143	197
White Mountains Insurance Group	19	26
XL Group plc	-	352
Total	2,290	4,073

Source: Company reports

FitchRatings

www.fitchratings.com

8

Reinsurance Combined Ratio Volatility

Average Combined Ratio, 2010-14: Europe and Bermuda

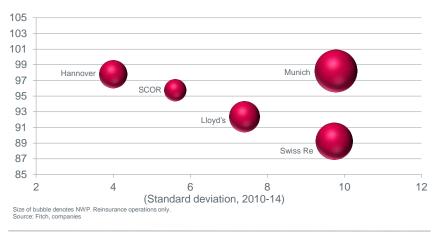


FitchRatings

www.fitchratings.com

Reinsurance Combined Ratio Volatility

Average Combined Ratio, 2010-14: Major European



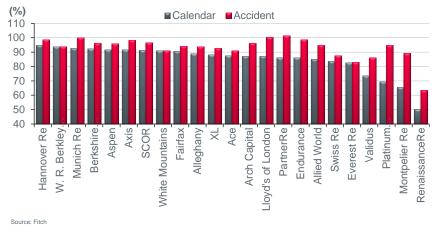
FitchRatings

www.fitchratings.com

10

Prior Year Development Remains in Surplus

2014 - Calendar and Accident Year Combined Ratio



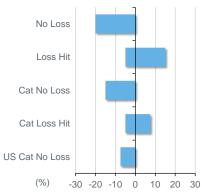
FitchRatings

www.fitchratings.com

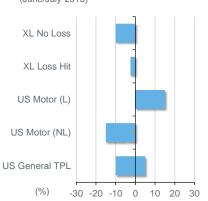
Reinsurance Renewal Pricing Trends







Casualty (June/July 2015)



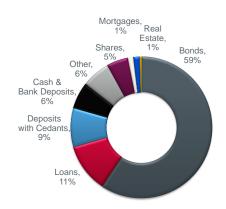
Source: Company and broker reports

FitchRatings

www.fitchratings.com

Invested Asset Allocation

Major Asset Classes - 2014



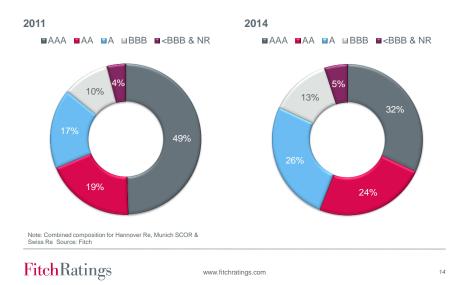
- Fixed-income remains major class
- · Conservative risk appetite
- Key focus for 2016
 - · Volatility due to interest rate movements
 - · Changing risk appetite
 - · Duration management

Note: Combined composition for Hannover Re, Lloyd's of London, Munich Re, SCOR & Swiss Re. Source: Fitch

FitchRatings

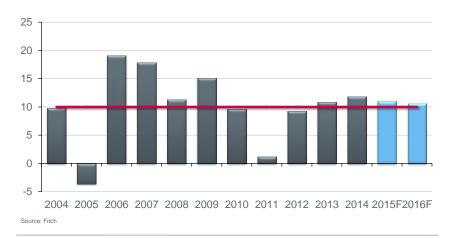
www.fitchratings.com

Fixed Income Credit Quality



ROE Declines - 10% Could Change View

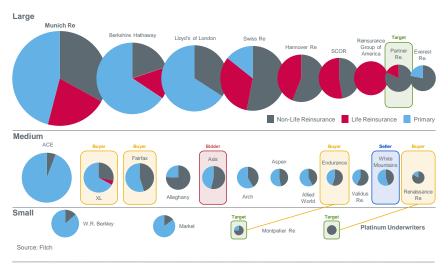
Average Net Income ROE



FitchRatings

www.fitchratings.com

Reinsurer Merger and Acquisition Activity



FitchRatings

www.fitchratings.com

16

"Convergence"

- blurring the line between traditional and alternative capital
- •Capital Markets are finding ways to enter the property cat space
 - · Sidecars, ILWs, Collateral Reinsurance, Cat Bonds
 - · Search for yield in low rate environment
 - Aon estimates to grow to \$120 B to \$150B (from around \$70 B)
- •Direct writers are retaining more risk
 - Buoyed by lack of Cat 3-type events
- •Reinsurers are not sitting still
 - Forming partnerships, M&A, setting up ILS shops



Source: Aon Benfield

FitchRatings

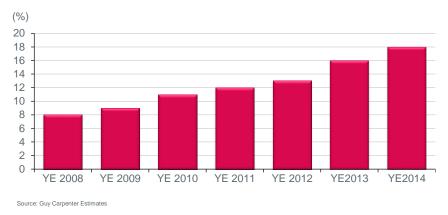
www.fitchratings.com

11/13/2015

Alternative Reinsurance Capacity

Alternative Market Capacity Continues to Grow

Alternative Capacity as a % of Global Property Catastrophe Reinsurance Limit



FitchRatings

www.fitchratings.com

18

Catastrophe Bond Issuance

Issuance Remains Strong

Catastrophe Bonds (Non-Life)



Source: Willis Capital Markets & Advisory

FitchRatings

www.fitchratings.com

ILS Growth

- can the recent success continue?
- Tough sledding ahead
 - What goes up, must come down significant maturities coming due (\$6 B in 2016)
 - Unless there is a paradigm shift, we believe not much more growth



Basic Hurdles Still Exist for Cat Bonds

- though changes are in the air

- Niche market
- •Expensive to structure
- ·Lack of robust secondary market
- Seasonality
- Peak perils
- ·Lack of standardization
- Private placements





FitchRatings

www.fitchratings.com

11/13/2015

11/13/2015

OUTSTANDING PERILS

Quake, Quake and more Quake

- no wind peril since Compass Re (June, 2015)



Company	Sponsor	Issue Date	Peril	Covered Area	Par Amount (MM)
AZZURRO RE	UNIPOLSAI GROUP	JUN 2015	EQ - ITALY	INDEMNITY	€ 200
PANDA RE	CHINA RE	JULY 2015	EQ - CHINA	INDEMNITY	\$ 50
ACORN RE	HANNOVER RE (Kaiser)	JULY 2015	EQ - CALIFORNIA	PARAMETRIC	\$ 300
BOSPHORUS LTD	TCIP	AUG 2015	EQ - TURKEY	PARAMETRIC	\$ 100
URSA RE	CEA	SEPT 2015	EQ - CALIFORNIA	INDEMNITY	\$ 250
PENN UNION RE	AMTRAK	SEPT 2015	MULTI-PERIL incl. EQ – US	PARAMETRIC	\$ 200

FitchRatings

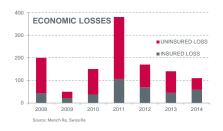
www.fitchratings.com

11/13/2015

22

Where is the Supply?

- •Most large (re)insurers are already in the cat bond space
 - Only a few new sponsors per year
- •Direct writers will need to radically change reinsurance program
- •Who takes the lead on uninsured or under-insured losses?
 - · Government sponsored entities (TWIA, TCIP, MPUIA, Amtrak)
 - Traditional Reinsurers
 - Alternative Capital World Bank



FitchRatings

www.fitchratings.com

11/13/2015

Where is the Supply (continued)?

- •Are investors interested in other casualty lines?
 - · Longer tail lines, adverse reserve development
 - Are there accepted models? Are there appropriate triggers?
 - Mortgage insurance

•Are Longevity Bonds attractive?

- · Defined Benefit transactions
 - Multi-billion dollar deals, very long dated





FitchRatings

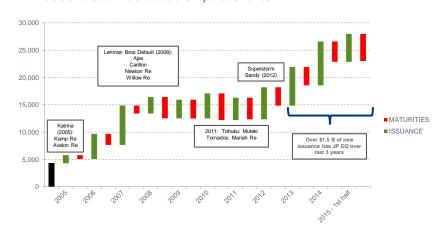
www.fitchratings.com

11/13/2015

24

Will Investors Leave When Claims Happen?

- doesn't seem so based on past events



FitchRatings

www.fitchratings.com

11/13/2015

Sector Outlook Negative

- · Sector (fundamental) outlook negative since January 2014
 - Premium prices to fall further in 2016
 - · Investment yields to remain close to historic lows
 - · Increased M&A to have limited impact on abating supply-side competition
- · Reinsurers' ratings expected to remain resilient
 - · Adequate profitability and strong capitalisation
 - · Earnings decline within ranges that current ratings can tolerate
 - Small group of mono-line companies could be downgraded, moved to Neg. Outlook

FitchRatings

www.fitchratings.com

26

What Could Lead to Downgrades?

- · Deterioration in sector profitability, even if capital remains strong
 - Run-rate combined ratio stay closer to 100%
 - Return on equity dropped below 10%
- Catastrophic loss with interest rate spike
 - Catastrophic loss in excess of USD70bn coupled with a sudden spike in interest rates of 300bps or more

FitchRatings

www.fitchratings.com

Related Research

Fitch research can be accessed via our website www.fitchratings.com

- Monte Carlo Reinsurance Rendez-Vous Roundup (21 September 2015)
- Global Reinsurance Guide 2016 (7 September 2015)
- 2016 Outlook: Global Reinsurance (3 September 2015)
- Latin American Reinsurance (27 August 2015)
- Global Reinsurers' Mid-Year 2015 Financial Results (25 August 2015)
- · Asian Reinsurance Markets (21 August 2015)
- Bermuda (Re)insurers Financial Performance (27 July 2015)

Fitch Ratings

www.fitchratings.com

28

Disclaimer

Fitch Ratings' credit ratings rely on factual information received from issuers and other sources. Fitch Ratings cannot ensure that all such information will be accurate and complete. Further, ratings are inherently forward-looking, embody assumptions and predictions that by their nature cannot be verified as facts, and can be affected by future events or conditions that were not anticipated at the time a rating was issued or affirmed.

The information in this presentation is provided "as is" without any representation or warranty. A Fitch Ratings credit rating is an opinion as to the creditworthiness of a security and does not address the risk of loss due to risks other than credit risk, unless such risk is specifically mentioned. A Fitch Ratings report is not a substitute for information provided to investors by the issuer and its agents in connection with a sale of securities.

Ratings may be changed or withdrawn at any time for any reason in the sole discretion of Fitch Ratings. The agency does not provide investment advice of any sort. Ratings are not a recommendation to buy, sell, or hold any security.

ALL FITCH CREDIT RATINGS ARE SUBJECT TO CERTAIN LIMITATIONS AND DISCLAIMERS. PLEASE READ THESE LIMITATIONS AND DISCLAIMERS AND THE TERMS OF USE OF SUCH RATINGS AT WWW.FITCHRATINGS.COM.

FitchRatings

www.fitchratings.com

