# IR day 2014

SCOR's ERM ensures that the Group's risk profile and solvency are in line with its strategic plan

London, 10 September 2014



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In addition, such forward-looking statements are not "profit forecasts" in the sense of Article 2 of Regulation (EC) 809/2004.

The 2013 pro-forma figures in this presentation include estimates relating to Generali USA to illustrate the effect on the Group's financial statements, as if the acquisition had taken place on 1 January 2013.

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#### SCOR

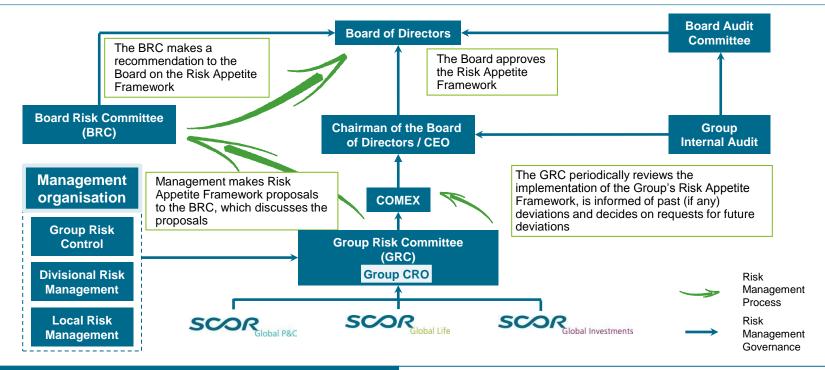
## IR day 2014 - SCOR's ERM ensures that the Group's risk profile and solvency are in line with its strategic plan

1	SCOR further develops its excellent ERM framework
2	SCOR ensures that its main exposures are within approved limits
3	SCOR provides a strong solvency position throughout the strategic plan

# ERM is embedded in SCOR's decision making, along with strong governance, processes and controls

#### ERM is embedded in decision making

- □ The Management and the Board are deeply involved in steering the Group's risk profile
- For specific strategic decisions such as an acquisition or significant initiatives, Risk Management actively assesses risks to support Management and Board decision making



#### ERM development over the "Optimal Dynamics" horizon

- SCOR's Risk Appetite Framework continues to evolve to enhance management of risk and capital
- SCOR more systematically uses economic metrics across the organization

### SCOR

### The Group Risk Dashboard is at the heart of its strong risk governance

### Concise and comprehensive risk report for management and board...

13-page detailed report which provides a comprehensive and complete overview of the main risks for the Group

Each risk category is owned by a COMEX member who relies on several risk managers

Easy to understand, comprehensive, forward-looking report on key risks

Additionally, the Risk Dashboard supports the production of in-depth risk studies and papers

Follow-up on risk mitigation actions which are clearly identified in the dashboard

The Risk Dashboard reflects the strong ability of the Group to challenge, control and communicate on its own risks to the Board

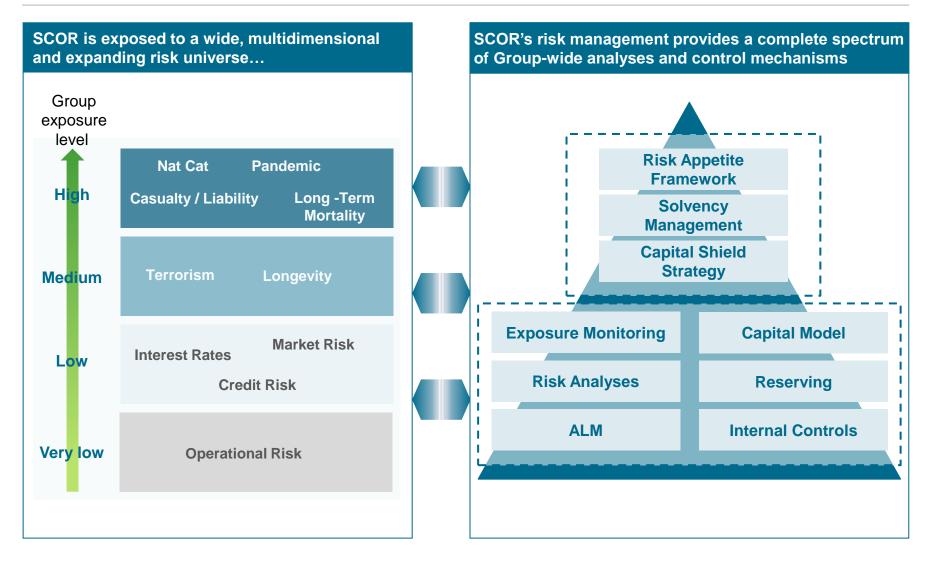
- All information feeding into the Dashboard comes from rigorous risk assessment processes
- Strong encouragement from the COMEX and the Board to continuously improve the risk reporting processes and maintain focus on essential, forward-looking and relevant information

### ...combining summarised high-level assessments with detailed background analysis

Illustrative only	Risk category	Risk	Trend
	Strategic risks	•	$\rightarrow$
	Monitoring of risk exposures	•	$\rightarrow$
	P&C business environment	•	$\rightarrow$
	Life business environment	•	Ы
	Reserving risks	•	$\rightarrow$
	Market risks and asset concentration	•	$\rightarrow$
	ALM risk	•	$\rightarrow$
	Credit risk	•	$\rightarrow$
	Liability concentration risk	•	$\rightarrow$
	Retrocession	•	$\rightarrow$
	Liquidity risks	•	$\rightarrow$
	Operational risks	•	$\rightarrow$
	External perception of risks	•	(new)

•	Low	No material risks.
•	Medium Low	No material risks but further analysis required.
•	Monitor	Material risks exist that were not previously on the risk radar or insufficient visibility. Management action taken is likely to be proportionate and risks are deemed manageable.
•	Monitor closely	Material risks persist with extremely limited visibility. Management action taken but uncertainty on its effectiveness or efficiency or timeliness.
•	High	Material risks persist and require an urgent plan and implementation or no visibility at all.
<b>→</b>	7 4	Indicates a stable development ( $\rightarrow$ ), an increase ( $\nearrow$ ) or a decrease ( $\searrow$ ) in the risk since last quarter.

# SCOR controls its risk profile with Risk Management mechanisms of the highest standards



# SCOR's Risk Appetite Framework is an integral part of the strategic plan ("Optimal Dynamics")

	"Optimal Dynamics"				
Risk appetite	<ul> <li>A mid-level risk profile (after hedging) with a focus on the belly of the risk distribution, avoiding exposure to extreme tail events, but aligned with the increased size, diversification and capital base of the Group</li> <li>Volatility is controlled through diversification and Capital Shield Strategy</li> </ul>				
Risk preferences	<ul> <li>Business focus on selected reinsurance risks</li> <li>Most mainstream insurance risks covered in Life and P&amp;C, with a recalibration reflected in an increase in longevity risk and a slight increase in Nat Cat risk</li> <li>Low appetite for interest rate risk (at least in the short term) and no appetite for operational risk, clients' asset rifinancial D&amp;O<sup>1</sup>, GMDB<sup>2</sup> new business</li> </ul>				
	Solvency target	<u>Capitalization level</u> SCR, Buffer capital and flexible solvency target driving a process of gradual escalation and management responses			
Risk	System	<u>Risk drivers (probabilistic)</u> Post-tax net 1:200 annual aggregate loss for each risk driver ≤ 20% Available Capital			
tolerances	of limits	Extreme scenarios (probabilistic) Post-tax net 1:200 annual per-event loss for each risk ≤ 35% Buffer Capital			
	Limits per risk in the underwriting and investment guidelines				
Footprint scenarios	Impact assessment of <b>past events (deterministic)</b>				



2) Guaranteed Minimum Death Benefit

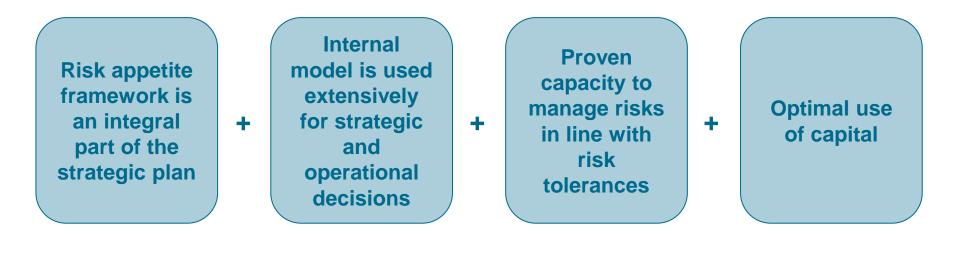
# SCOR relies on a dynamic solvency scale coupled with a clear escalation process to manage its solvency

The management responses reflect the dynamic process which enables SCOR to steer its risk and capital positions towards the optimal area.					
	Capitalised Contents Substantial Substanti	Action	Possible management responses (examples)	Escalation level	
4 buffers = Max buffer ~300% SR <sup>1)</sup>		Redeploy capital	<ul> <li>✓ Consider special dividends</li> <li>✓ Consider acquisitions</li> <li>✓ Buyback shares / hybrid debt</li> <li>✓ Increase dividend growth rate</li> <li>✓ Reconsider risk profile, including capital shield strategy</li> <li>✓ Enlarge growth of profitable business</li> </ul>	Board/AGM	
2.4 buffers ~220% SR <sup>1)</sup>	Obtimal Subscription	Fine-tune underwriting and investment strategy	<ul> <li>Permanent check and optimization to remain in the optimal zone</li> </ul>	Executive Committee	
1.7 buffers ~185% SR <sup>1)</sup>	Comfort	Re-orient underwriting and investment strategy towards optimal range	<ul> <li>✓ Improve selectiveness in underwriting and investment</li> <li>✓ Improve the composition of the risk portfolio</li> <li>✓ Optimize retrocession and risk-mitigation instruments e.g. ILS</li> <li>✓ Consider securitizations</li> </ul>	Executive Committee	
1 buffer ~150% SR <sup>1)</sup> 1/2 buffer = Min buffer ~125% SR <sup>1)</sup>	Alert Optimal C	Improve efficiency of capital use	<ul> <li>✓ Issue hybrid debt</li> <li>✓ Reduce and / or issue stock dividends</li> <li>✓ Reconsider risk profile, including more protective capital shield</li> <li>✓ Slow down growth of business</li> <li>✓ Consider securitizations</li> </ul>	Board/AGM	
100% SR <sup>1)</sup>	scr	Restore capital position	<ul> <li>✓ Consider private placement / large capital relief deal</li> <li>✓ Consider rights issue (as approved by the AGM)</li> <li>✓ Restructure activities</li> </ul>	Board/AGM	
Below minimum range - submission of a recovery plan to the supervisor <sup>2)</sup>				Board/AGM	

#### SCOR

- 1) The 2014 solvency ratio is available capital at year-end 2013 divided by the SCR as of that date, allowing for planned business in 2014
- 2) When Solvency II comes into force Article 138 of the Solvency II directive. Subject to approval of SCOR's internal model for use under Solvency II. It is expected that applications for approval can be made beginning in April 2015

## SCOR has built a "best in class" enterprise risk management system and is on track for Solvency II



S&P considers SCOR's ERM to be "Very Strong", the highest level in the industry

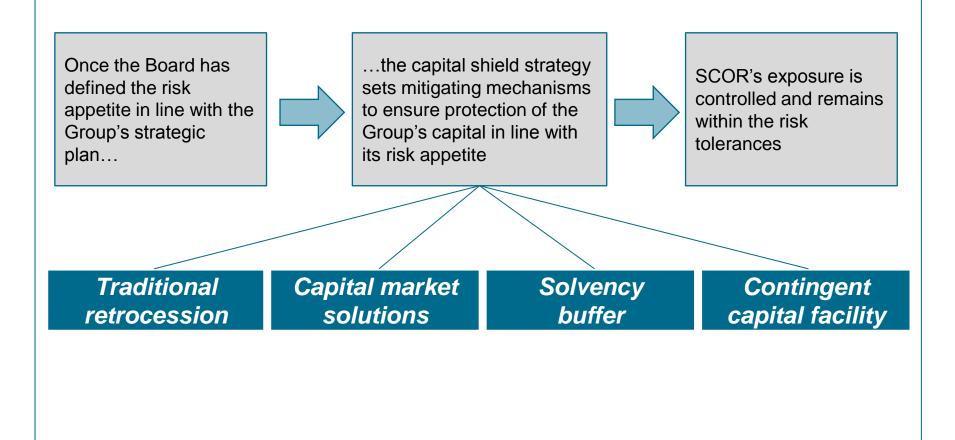


## IR day 2014 - SCOR's ERM ensures that the Group's risk profile and solvency are in line with its strategic plan

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### SCOR's capital shield strategy enables it to control its exposures

The capital shield strategy is optimized in line with the risk profile and market opportunities



### ... using the whole range of protection mechanisms

#### **Traditional retrocession**

- Wide range of protections including Proportional and Non-Proportional covers (Per event/Aggregate)
- As part of "Optimal Dynamics", the Property Nat Cat retention is slightly increased to take advantage of the optimized diversification and increased capital base of the Group

#### **Capital markets solutions**

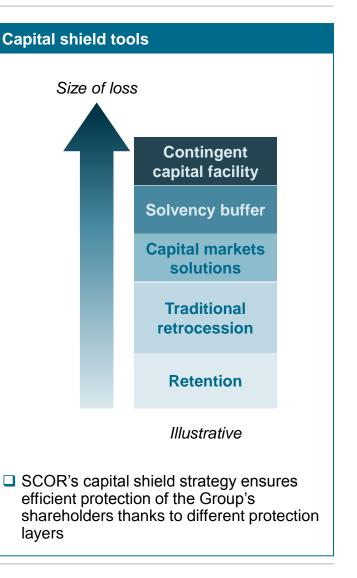
- Significant experience in ILS over the last 10 years
- SCOR's outstanding ILS<sup>1</sup> currently provide ~ \$750 million capacity protection, including a \$180 million mortality bond to ensure that the pandemic risk exposure is well controlled throughout the plan

#### Solvency buffer

SCOR has set out a solvency scale with clear and well-defined buffers safeguarding the group's franchise

#### **Contingent capital facility**

- SCOR's innovative € 200 million contingent capital facility protects the solvency of the Group from either extreme Nat Cat or Life events
- The contingent capital is designed to act as a last resort, a predefined scheme to raise new capital and replenish equity in case of extreme events





#### SCOR's exposures are monitored to stay permanently within limits

#### Overview of 2014 main risk tolerances

Limits and exposures for a 1-in-200 year annual probability in € millions

Risk		Exposure as of end of June	Limit
	Major fraud in largest C&S exposure	~210	1
	US earthquake	~330	580
Extreme scenarios	US/Caribbean wind	~540	
Extreme scenarios	EU wind	~350	
	Japan earthquake	~150	
	Terrorist attack	~390	↓
Risk driver	Extreme global pandemic(s)	~820	1 500

- SCOR's system of limits is designed to ensure that the Group's annual exposure to each major risk is controlled and to avoid the Group's overexposure to one single event
- All exposures above are net of current hedging / retrocession / mitigation instruments, with an allowance for tax credit
- □ For extreme global pandemics, the exposure includes the P&C and asset exposures as well as the mitigation effects of the Atlas IX mortality bond and the contingent capital facility

The footprint scenarios provide a further complementary risk assessment





#### Footprint scenarios provide a further complementary risk assessment

## Footprint scenarios are an <u>innovative</u> and <u>complementary</u> risk management tool

- Whereas risk drivers and extreme scenarios are probabilistic-based, the footprint approach consists in carrying out an impact assessment on the Group under a deterministic scenario
- The footprint approach is complementary to a probabilisticbased view
- Taking into account SCOR's current exposures and all risk mitigation instruments, footprint scenarios provide the impact on:
  - the Group's solvency ratio
  - the Group's liquidity
  - the Group's own operations
- For Nat Cat, key historical events have been selected

SCOR regularly produces and evaluates footprint scenarios, providing comfort that the impact of such events on the Group's current solvency would be limited

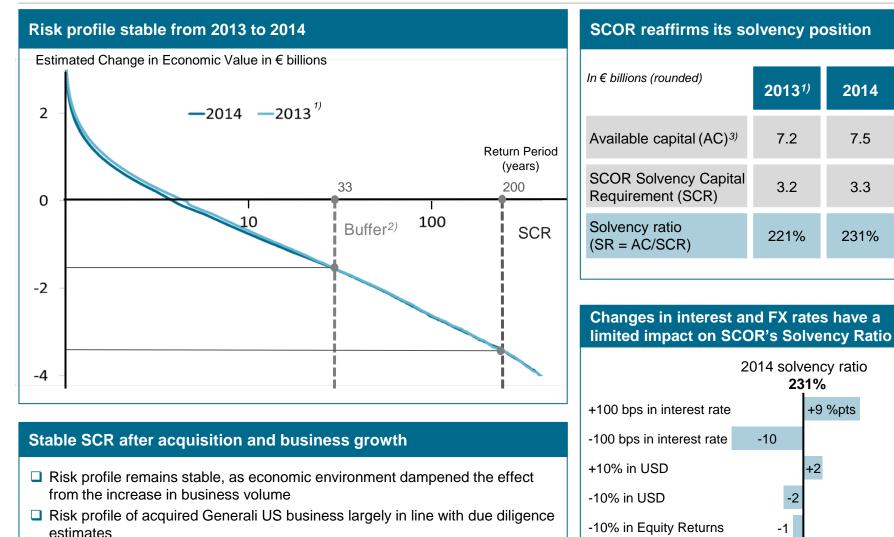
Class	Footprint scenario	Group's loss net of all risk mitigation mechanisms in € millions (before tax)	Impact on the Group's solvency ratio	
US Earthquake	1906 San Francisco earthquake	386	-10 points	
Japanese Earthquake	1923 Great Kantō earthquake	465	-12 points	
	1926 Great Miami Hurricane	247	-7 points	
North Atlantic	1928 Okeechobee Hurricane	344	-9 points	
Hurricane	1938 Long Island Express Hurricane	365	-10 points	
	1965 Hurricane Betsy	156	-4 points	
	1990 Daria extra tropical cyclone	229	-6 points	
European Windstorm	1999 Lothar – Martin extra tropical cyclones	347	-9 points	
Japanese Typhoon	1959 Typhoon Vera	206	-6 points	
Japanese Typhoon	1961 Typhoon Nancy	158	-4 points	



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### In 2014, SCOR confirms the strength of its capital position



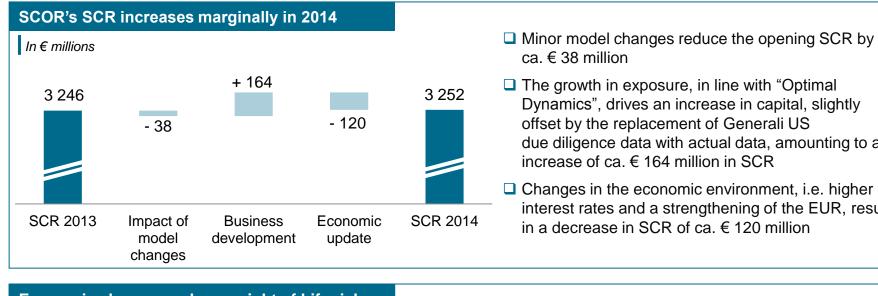
1) 2013 figures correspond to the 2013 IR Day results including estimates of the impact of the acquisition of Generali US

2) The buffer capital is defined as the 97% VaR of the change in economic value distribution

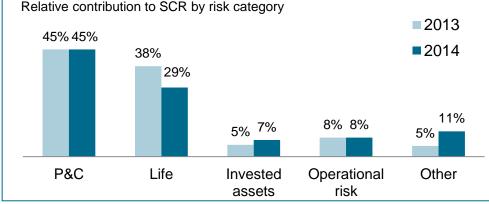
3) Available capital as of 31/12 of the previous year

SCA

### Changes in the economic environment mitigate the impact of the business growth on the SCR



#### Economic changes reduce weight of Life risks



Relative contribution to SCR by risk category

- due diligence data with actual data, amounting to an
- Changes in the economic environment, i.e. higher interest rates and a strengthening of the EUR, result
- Relative P&C contribution is stable due to planned business growth being offset by further optimized retrocessions and favourable FX
- The reduced contribution of Life risks is mainly due to movements in economic variables, resulting in decreased impacts of long-term trend scenarios and USD exposure
- U While the contribution of the Operational Risk is stable, Invested Assets and Other risks increase their contribution, in line with increased exposure and minor model refinements

### SCOR continues to leverage on a strong diversification benefit

The entire risk profile benefits from diversification	Diversification between divisions continues to be strong		
Estimated Change in Economic Value in € billions 2	In € billions (rounded)	2013 <sup>2)</sup>	2014
1 Return Period (years)	SCOR Global Life standalone capital <sup>1)</sup>	2.2	2.1
-1 10 200 SCR	SCOR Global P&C standalone capital <sup>1)</sup>	2.3	2.3
-2 - -3 -	Total undiversified	4.5	4.4
-4 Diversification benefit	SCOR SCR diversified	3.2	3.3
-5 -	Diversification benefit	28%	27%

- □ If SCOR Global Life and SCOR Global P&C were two separate companies not belonging to the same Group, their overall capital requirement would be given by the undiversified risk profile in the chart above
- The balance of exposure between the two main business lines within the Group provides SCOR with an important diversification benefit, highlighted by the comparison between SCOR's diversified risk profile and the undiversified risk profile
- The effect of the diversification does not just have an impact on the SCR but it is consistently reflected across the entire risk profile
- The 2014 diversification benefit slightly decreased as the economic changes led to brings a greater reduction in Life than in P&C

2013 figures correspond to the 2013 IR Day results, including estimates of the impact of the acquisition of Generali
 US

### Available economic capital significantly exceeds IFRS equity

In € millions +1286+ 57 + 2 2 2 5 -788 -240 4 980 +€2.5bn 7 520 YE 2013 Adjustments of Goodwill 2014 dividend Other YE 2013 Hybrid debt Shareholders' technical adjustments Available removal provisions<sup>1)</sup> equity capital

