## Securitization as a complement to reinsurance, An illustration on AXA strategy

**Rendez-Vous Monte Carlo, September 2008** 



redefining / standards



■ 1 – AXA, a pioneer in the transformation of the model

2 – A few lessons of current market turmoil

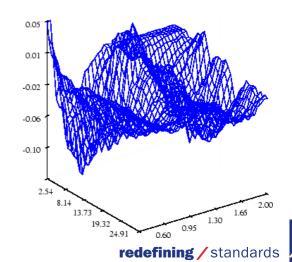
■ 3 – How to develop further the ILS market ?



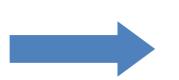
### AXA strategy on transforming risks From warehousing to understanding risks

- Insurance business model based for ages on warehousing risks :
  - Risks first taken from policyholders
  - Then pooled and borne by the insurers
  - Traditional reinsurance programs
- Requiring a relatively large amount of capital, not always efficiently used

- Thanks to financial techniques, it evolves towards management & intermediation of risks :
  - Risks pooled and structured by the insurers
  - Then externalized through reinsurance and financial markets
- Requiring a relatively moderate amount of capital with appropriate capital management







### AXA strategy on transforming risks Securitization : a risk / capital management tool

- Capital markets have significantly greater capacity than insurance markets
- Better pricing in some cases where insurance market has a limited number of providers
- Removes counterparty credit risk
- Increases the diversification of protection sources and offers multi-year protection
- Improves the cost of capital, i.e. the reduction in the cost of capital achieved through securitisation is greater than the cost of servicing the securitisation structure

■ → There is a considerable potential market for ILS, as the need for risk transfer from insurance companies matches the desire for diversification from investors as insurance risk is an decorrelated new asset-class



#### AXA strategy on transforming risks Recent examples at AXA's level

Securitization and dynamic Asset Liabilities Management are the new tools for risk management and capital management, aiming to :

- Improve capital utilization in the insurance industry
- Broaden the range of available tools for risk management and balance sheet optimization
- Diversify reinsurance sources away from traditional reinsurance market while eliminating counterparty risk
- Develop Insurance Linked Securities as a new asset-class for investors

# Examples of AXA's innovative Life & P&C insurance-linked securities (ILS) transactions

- AURA Re (2005): European storm Cat bond (€68m)
  - Protects the group against low frequency-high severity European Windstorm events
- SPARC France (2005): 1st securitization of a motor insurance portfolio (€200m)
  - Transfers the risk of deviation above a certain threshold of the loss ratio of the securitized portfolio
- OSIRIS (2006): 1st extreme-mortality risk coverage program from an insurance company (€300m)
  - Protects from a sudden jump in the mortality rate in 3 countries (France, Japan, US) which would accelerate payments on our term life policies
- SPARC Europe (2007): 1st securitization of a multi-jurisdiction motor insurance portfolio (€450m)
  - Transfers the risk of deviation of the loss ratio on a diversified portfolio of motor books in Germany, Belgium, Spain and Italy

AURA Re	SPARC France	OSIRIS	SPARC Europe	standards
Private	AAA to BBB	A+ to BB+		
	_		AAA to BB-	



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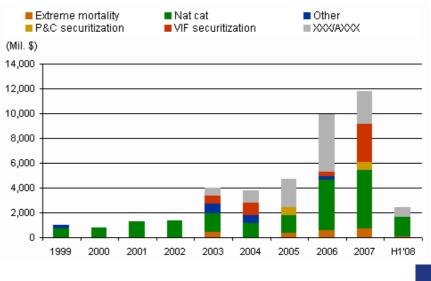
#### A few lessons of current market turmoil ILS : decorrelated new asset-class

- Few lessons of current market turmoil :
  - Financing securitization, which allows to raise funds at reduced capital cost, has been severely hurt (liquidity crisis) -> main issue for banks; but it is completely different with risk transfer (externalize risks to reduce capital requirements).
  - Nat Cat bonds (the main ILS asset class) so far appearing to be immune to the market's disruptions -> decorrelated new asset-class;
  - Investor's appetite for ILS asset class intact (cf. demand far surpassed offer for the last cat bond placements)



Insurance Linked Assets - low correlation

#### S&P rated ILS transactions







### A few lessons of current market turmoil All risks can not be securitized

Securitization is a complement to reinsurance, as it is far more constraining than traditional reinsurance :

- Need for data (accuracy, histories, database, etc.)
- Need for transparency (confidentiality issue)
- Need for short term return for investors (early commutation)
- Need for minimal size (huge structuring cost at launch)





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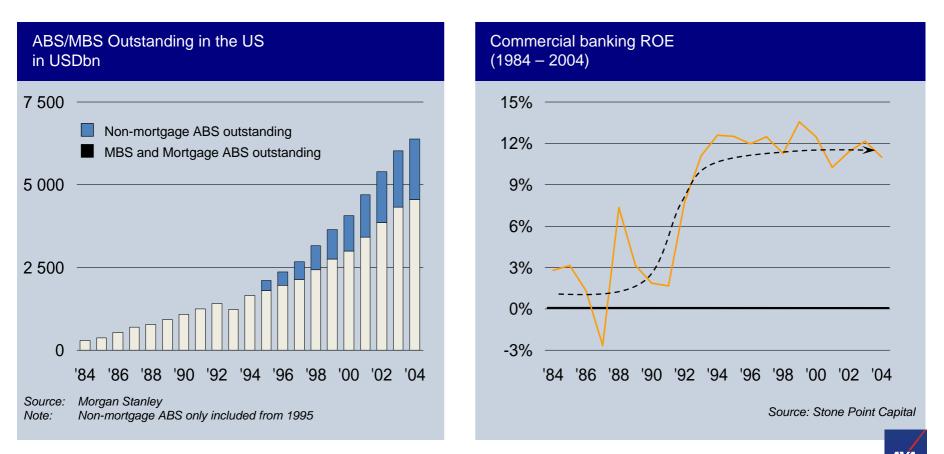
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### How to develop further ILS market ? Banks in advance since the 80'

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- Banks use actively securitisation since the 80' as a risk / capital management tool:
  - acceleration in the early 90' when Basel I acknowledged regulatory benefit
  - boost in the ROE of banks



#### How to develop further ILS market ? Insurance sector still lagging

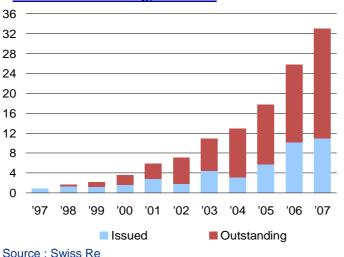
Securitisation of insurance risk is a recent phenomenon

- •beginning slowly in the mid 90' with the issuance of the first catastrophe bonds
- continuing in the 2000's with some securitisations of embedded value.

Most recently, risk securitisation continued to expand with some innovative transactions:

• Mortality risk (Vita I in 2003 from Swiss Re ; Vita II in 2005 ; Osiris from AXA and Tartan from Scottish Re in 2006 ; Vita III in 2007)

• P&C insurance risk (Sparc France in 2005 and Sparc Europe in 2007 on AXA's motor portfolio)

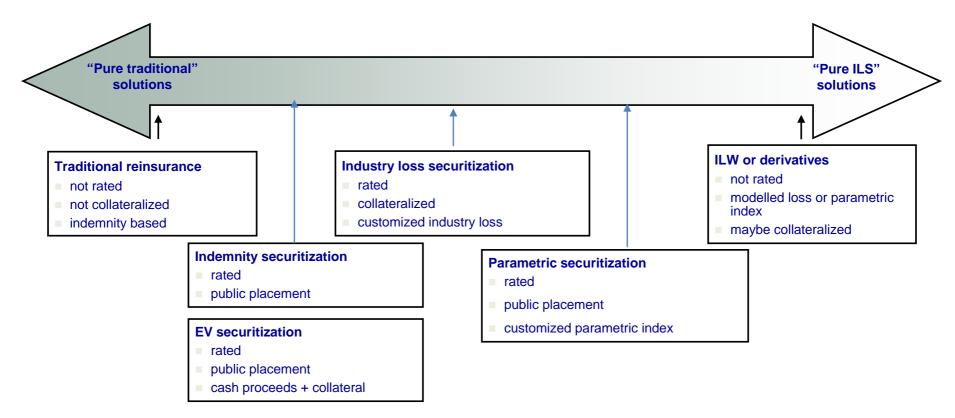


#### Total ILS outstanding, in USDbn

In 2006, for the European banking sector : € 450bn new issues for ABS/CDO vs \$ 9bn for worlwide Insurance Linked securities (\$ 12 bn in 2007)



### How to develop further ILS market ? From traditional reinsurance to capital market solutions



Source : Swiss Re



### How to develop further ILS market ? Main challenges

#### **Regulators :**

- Need to fully recognize risk transfer and allow capital relief
- Not differentiate b/w reinsurance, ILS or derivatives at equal risk transfer
- Accept SPVs as valid counterparties not subject to stringent solvency requirements
- No restrictions on institutional ILS investments

#### Rating agencies :

- Need to fully recognize risk transfer and allow capital relief
- Value securitization and other forms of risk transfer in their assessment of quality of risk management
- Increase transparency on process for rating notes

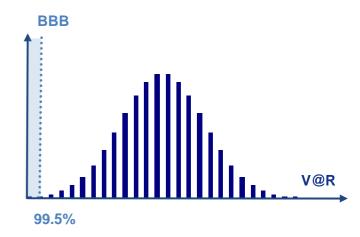
## Capital markets : • Education of market participants to transfer and to accept more and more insurance risks

- Increased transparency on modelling, documentation, data (standardization of contracts, SPVs, triggers)
- ILS indices to develop derivatives and secondary market



#### How to develop further ILS market ? Solvency II : a short term issue

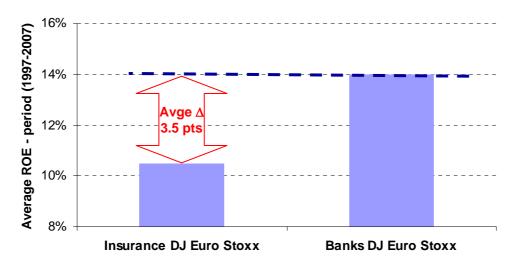
- Today (Solvency I) capital management transactions focus on portfolios where regulatory capital requirements are significantly higher than economic capital
- Under Solvency II, this differential should decrease, or even disappear with the use of internal models :
  - Select risks that bear high regulatory capital requirements
  - Increase risk transfer
  - Issue and sell lower rated tranches: BBB, BB, and potentially B
    - More expensive but costs are tax deductible
    - Comparison between cost of capital and cost of selling lower rated tranches





#### How to develop further ILS market ? Securitization benefits still there

- Recent adverse developments on banking securitizations should not question the necessary development of the insurance securitization market
- The gain expected of securitization (boosted ROE) for the attractiveness of insurance industry as an asset class



#### Insurance vs Bank ROE



