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# Reengineering the Investment Value Chain for Solvency II

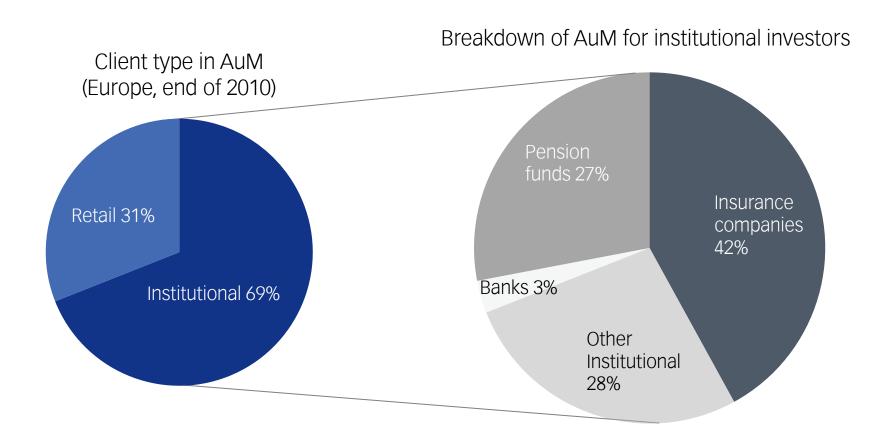
27 September 2012

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- Mastering the Challenges: IDS Platform Insights
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- Impact of Solvency II on Asset Management
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Investment funds play an important role in capital management for the insurance and pensions industry.



## Solvency II likely to be postponed to 2015\* – time to take a nap?

#### **Insurance Industry Asset Management Industry** 2011 Spectrum ranges from ignorance to feeling that something needs to be done (mostly reporting). First demands for data visible to assess impact of fund investment on insurer's SCR. 2012 Postponement\*\* good news for insurers who feel sound principles and clarity must prevail Early adopters position themselves to gain over readiness. strategic advantage with Solvency-II-ready Insurers still mainly occupied with themselves / products. will not "teach" asset managers their needs. 2013 Product development. Set-up of reporting capabilities. Insurers will restructure their assets for optimal capital allocation under Solvency II. Adjustments as regulation evolves. Asset managers with suitable Solvency II 2014 platform will gain market shares. Value chain in insurance asset management Full application of Solvency II regime. reengineered to suit clients' needs.

needs.

Choice of asset managers that best serve their

Latecomers loose market shares.

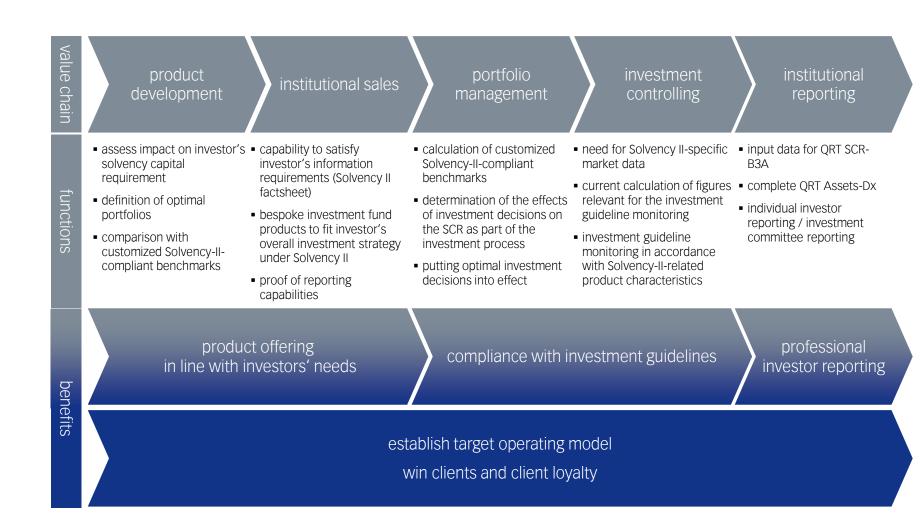
2015

<sup>\*</sup>EU may delay tough new capital rules for insurers, Reuters, September 19, 2012

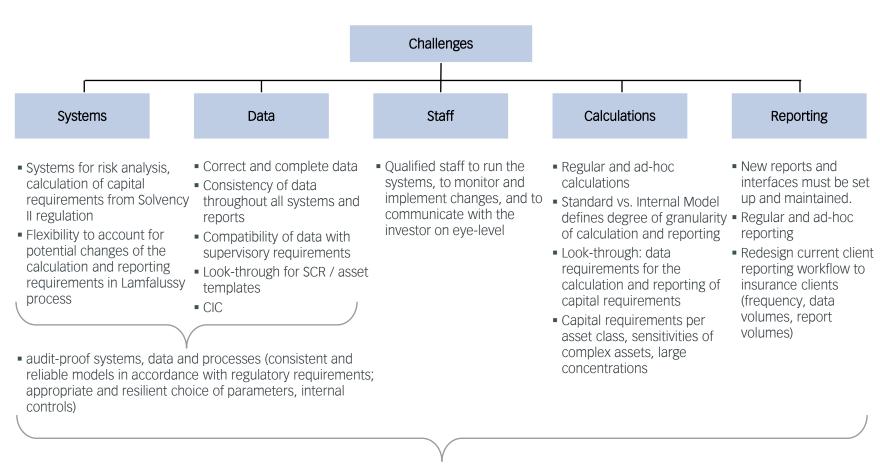
<sup>\*\*</sup>According to Martin Bradley, Ernst & Young, a delay is in no way guaranteed. There was no consensus on this point.

### 

There are numerous points along the value chain where services could be offered.



## Significant challenges are presented by proper delivery of Solvency II services.



Additional complexity from individual national implementations and national industry standards as well as from general national characteristics like language, date and number formats, ...

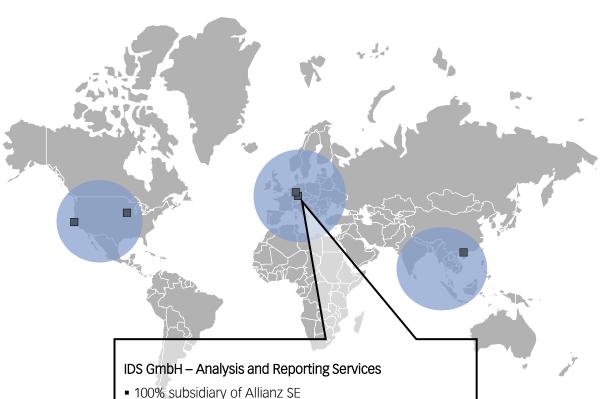
Flexibility to address regulation besides and beyond Solvency II / Leveraging existing infrastructure for UCITS, AIFMD, ... compliance

## The main challenges are in the provision of the major functional building blocks.

Can the many data sources be combined into one consistent set of data? Data How is the look-through approach for investments in target funds Management handled? How is the (investor-specific) CIC assignment handled? Major Is profound cross-sector know-how available for the Implementation of the calculation engines? functional Analytics buidling How flexible is the IT platform to adapt to ongoing changes in the regulation (heavy customization required over time)? blocks Can the assembly of different sources of information into one consistent set be automated to support the burden of reporting? Reporting Does the reporting support product development and product sales as well as client reporting?

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### IDS is a managed service provider operating worldwide



- Established in 2001
- Munich, Frankfurt/Main, Minneapolis, San Francisco and Hong Kong
- About 280 employees from more than 30 nations with sector-specific background

#### Regions

74% Europe

16% Asia

10% USA

#### Industry

70% Asset Managers

12% Insurance Companies

9% Banks

9% Other Sectors

#### Segmentation

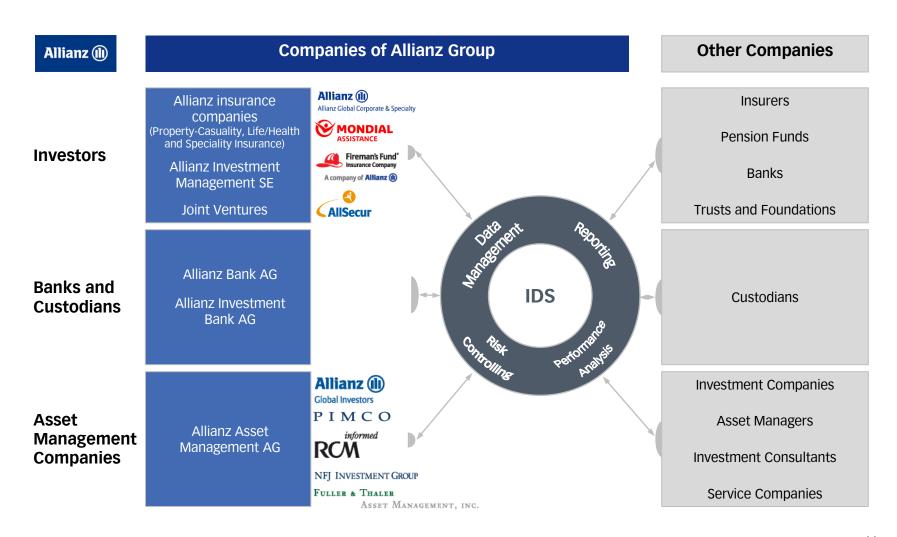
61% Allianz Group

39% Third Party

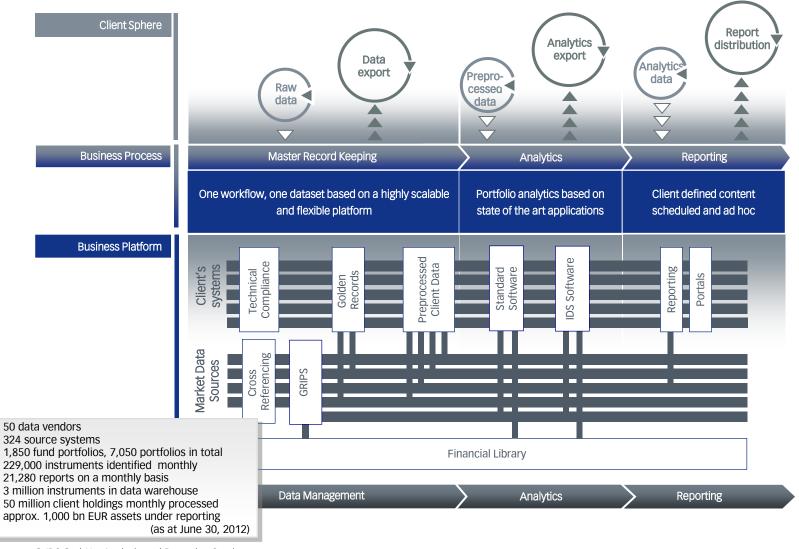
Statistics based on legal entities as at June 30, 2012

## 

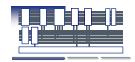
IDS operates as an independent and impartial intermediate of data, analyses and reports



## IDS offers a sustainable and scaleable production platform



## The IDS standardization procedure ensures a unified view on fund and direct investments



#### **Data Management Team**

- Automated and manual standardization of portfolios, investments and companies
- 8 team members
- 229,000 new instruments to be identified monthly...
- that yield over 50,000 newly standardized instruments
- 37,000 instruments manually identified monthly

#### **Quality Checks**

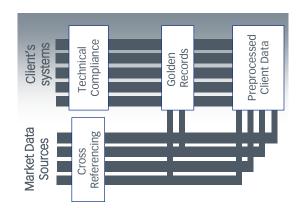
- Corrected deliveries
- Frontend checks
- Regular quality meetings

#### Data Pool

- 50 data vendors
- 324 source systems
- 3 million current and historic instruments in data warehouse
- Cross-referencing tables

#### **Data Enrichtment**

- Classification of assets (approx. 340 IDS classes)
- Sectorization
- Seniority
- Assignment of companies (approx. 300,000) and hierarchies
- Identification of underlyings
- Reevaluation (optional)



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## IDS standardization example



One single investment and its heterogenous representations in the backoffice systems:

ckoffice ID	backoffice asset ID	backoffice asset name	asset class	asset class description	quoted on	identifier
			<b>r</b>	Schuldverschreibungen, Anleihen,		
1111	A0GN3W_00000_GBP_0	Großbritannien Treasury Stock 06/16	111	Obligationen	ISIN	GB00B0V3WX4
2084	LCGBP02494	UNITED KINGDOM	BOND	?	ISIN	GB00B0V3WX4
2083	JCXUK0067	UK 4.0000% Gilt Sep 2016	BOND	?	ISIN	GB00B0V3WX4
2086	MLCEF296277	TREASURY	BOND	?	ISIN	GB00B0V3WX4
				Festverzinsliche Wertpapiere ,		
				festverzinste Anleih , Anleihen		
2319	GB00B0V3WX43	Großbritannien LS-Treasury Stock 2006(16)	WPF_040_2001_	(Obligationen, Sc	ISIN	GB00B0V3WX4
2251	008816B25	UK GILT 4 9/07/16	TSY	Treasury	ISIN	GB00B0V3WX4
2253	008816B25	UK GILT 4 9/07/16	TSY	TREASURY	ISIN	GB00B0V3WX4
2239	771838_NOR	GILT 4% 07/09/16	BONDS (FIXED RATE)	?	ISIN	GB00B0V3WX4
			F	SCHULDVERSCHR, ANLEIHEN,		
2350	A0GN3W_00000_GBP_0	Großbritannien Treasury Stock 06/16	111	OBLIGATIONEN	ISIN	GB00B0V3WX4
				Festverzinsliche Wertpapiere ,		
				festverzinste Anleih , Anleihen		
2318	GB00B0V3WX43	Großbritannien LS-Treasury Stock 2006(16)	WPF 040 2001	(Obligationen, Sc	ISIN	GB00B0V3WX4
2356	B0V3WXII3	UK TSY 4 2016 BONDS 09/16 4.	10	GOVERNMENT ISSUES	ISIN	GB00B0V3WX4
2365	B0V3WXII3	UK TSY 4 2016 BONDS 09/16 4.	10	GOVERNMENT ISSUES	ISIN	GB00B0V3WX4
			F	SCHULDVERSCHR, ANLEIHEN,		
2351	A0GN3W 00000 GBP 0	Großbritannien Treasury Stock 06/16	111	OBLIGATIONEN	ISIN	GB00B0V3WX4
2512	771838	GILT 4% 07/09/16	BONDS (FIXED RATE)	?	ISIN	GB00B0V3WX4
			F	Debentures, bonds, and German		
2587	GB00B0V3WX43	UK TSY 4% 2016 UKT 4 09/07/16	111	public sector mortg	ISIN	GB00B0V3WX4
2609	019038W	UK(GOVT OF) 4% STK 07/09/2016 GBP100	UKGILT	UK GILT	SEDOL	B0V3WX4
2607	019038W	UK(GOVT OF) 4% STK 07/09/2016 GBP100	UKGILT	UK GILT	SEDOL	B0V3WX4
2584	45103-0 GBP	UKT 4 09/07/16	GOV BOND	?	ISIN	GB00B0V3WX4
2599	019038W	UK(GOVT OF) 4% STK 07/09/2016 GBP100	UKGILT	UK GILT	SEDOL	B0V3WX4
2619	COEF2962779	United Kingdom Gilt 4.00% Due 2016-Sep-07	FI55	GOVERNMENT, TREASURY	SEDOL	B0V3WX4
2593	LPCGBP02494	UNITED KINGDOM	N/A	?	ISIN	GB00B0V3WX4
	LCGBP02494	UNITED KINGDOM	o o	?	ISIN	GB00B0V3WX4



One single investment and its one single representation in the IDS platform:

IDS ID	IDS asset name	IDS asset class	IDS asset class description
502379	UK TSY 4% 2016 4.000% 07.09.2016	BB99	FIXED INCOME, BOND, -, -



## IDS has a tool set for calculations of regulatory metrics

#### **GRIPS**

- Calculated market data
- Swap Zero Curves
  - Government Bonds
  - Covered Bonds
  - ABS/MBS Curves
  - Inflation Curves
- Use of broad range of methods (Bootstrap, Nelson-Siegel, etc.)

#### **IDS Key Figures**

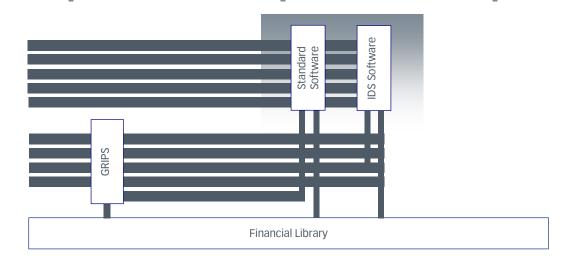
- Duration
- Yield
- Maturity
- Breakdown of derivatives
- Structured investments
- Market risk concentrations
- Counterparty exposure

#### **SAS Risk Dimensions**

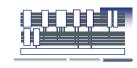
- Variety of scenario analyses and stress tests
- Interest rate risk
- Equity risk
- Currency risk
- Property risk

#### **IDS Solvency II Engine**

- SCR calculation
- SCR contribution
- Asset information
- Look-through approach
- Fund data hub



## The resultant data enter investment management view and regulatory reporting view.



			Fixed Income	Equity	Property	Spreads	Currency	Concentration	
AM 1		Investment Fund 1	CSCR	CSCR	CSCR	CSCR	CSCR	CSCR	
		Investment Fund 2	CSCR	CSCR	CSCR	CSCR	CSCR	CSCR	
		Investment Fund 3	CSCR	CSCR	CSCR	CSCR	CSCR	CSCR	Investment Management View  SCR drivers on portfolio level
12	$\big]  \big[$	Investment Fund 4	CSCR	CSCR	CSCR	CSCR	CSCR	CSCR	IDS Solvency II Factsheet
AM		Investment Fund 5	CSCR	CSCR	CSCR	CSCR	CSCR	CSCR	
		Direct Investments	CSCR	CSCR	CSCR	CSCR	CSCR	CSCR	
		Liabilities	CSCR	CSCR	CSCR	CSCR	CSCR	CSCR	
		Total	CSCR	CSCR	CSCR	CSCR	CSCR	CSCR	$SCR = \sqrt{\sum_{i,j} Corr_{ij} \cdot CSCR_i \cdot CSCR_j}$

Regulatory Reporting View

SCR not additive → a set of contributions per portfolio is required

IDS reporting templates for SCR-B3A

CSCR

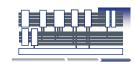
Contribution to SCR

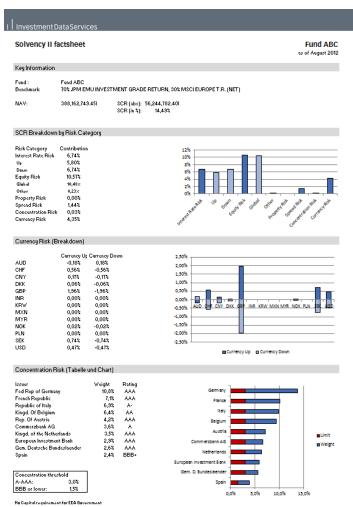
SCR

Solvency Capital Requirement (Market Risk)

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## Investment management view supports product development, sales and portfolio management



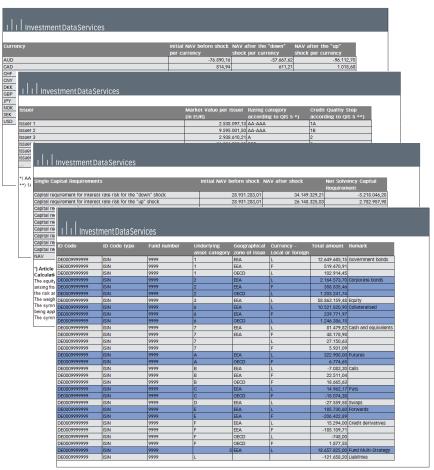


- Portfolio Key Information
- Assess impact of investment fund on insurer's SCR
- Breakdown of CSCR per risk factors
- Breakdown of CSCR currency risk
- Concentration risk (single issuer base)

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## Regulatory reporting view provides information to satisfy investors' regulatory reporting requirements





- raw data delivery of CSCR
- one table set per portfolio
- insurer sums single values per portfolio
- fine granularity:
  - Single CSCR per risk factor
  - Currency breakdown per single currency
  - Concentration risk per single issuer
- QRT Assets-D4

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### Conclusion

1

Responding to the challenges of Solvency II is of crucial importance for insurance asset management.

2

Access to leading regulatory and technical expertise and a flexible dedicated production platform for fund reporting are key success factors.

3

By choosing IDS, a wholly owned Allianz SE subsidiary, an asset manager could maximize project success.

### Discussion



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