











Solvency II

Estimates

• Best estimate shall be equal to the probability-weighted average of future cash flows, taking into account the time value of money, using the relevant risk-free interest rate term structure

· Risk margin

• Shall be calculated by determining the costs of providing an amount of eligible own funds equal to the SCRs necessary to support the insurance obligations over the lifetime thereof

• Own credit standing

• Effects of own credit standing on the value of liabilities must be eliminated, even if the value of a liability is based on a readily observable market price. These effects also include changes in also include changes in the credit standing affecting the insurance industry as a whole (e.g. an industry-wide increase of credit spreads)











Differences between Current Fulfilment Value and Current Exit Value II

Risk margin

- Objective of risk margin should be to provide information on uncertainty of future cash flows
- · CEV: it is the amount the market participants require
- CFV: it is not immediately clear what the principle would be
 - Two approaches discussed
 - Approach A is based on the cost of bearing risk
 - Approach B sets the initial margin to the premium

Day one profit (CFV)

- Approach A: Day one difference should be recognized as a liability, or in other comprehensive income
- Approach B: The initial margin should be calibrated directly to the premium and should not allow for day one profits; margin should be reported in the income statement only as the insurer is released from risk

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CFO Forum			
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Aegon	CNP	ING	Prudential
Allianz	Fortis	Legal & General	Scottish Widows
Aviva	Generali	Mapfre	Standard Life
ΑΧΑ	Hannover Re	Munich Re	Swiss Re
BNP Paribas	IF P&C	Old Mutual	Zurich FS
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#9 Costs of Residual Non-Hedgeable Risks

An allowance should be made for the **cost of non hedgeable risks** not already allowed for in the time value of options and guarantees or the PVFP. This allowance should include the impact of non hedgeable non financial risks and non hedgeable financial risks. An appropriate method of determining the allowance for the cost of residual non hedgeable risks should be applied and sufficient disclosures provided to enable a comparison to a cost of capital methodology.

- Insurance (mortality, longevity, lapses), operational, and other risks require capital
- Best estimate assumptions for non hedgeable risks in TVOG and PVFP should reflect at least the mean expectation of outcomes of that risk variable; the total MCEV should allow for the mean impact of all non hedgeable risks on shareholder value; difference: asymmetries in the impact of these risks and risks not allowed for in TVOG or PVFP

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- Allowance for uncertainty should be considered; allow for inaccuracy or insufficiency of the calibration of the market risk models
- Presentation through an equivalent average cost of capital charge on the projected residual non hedgeable risk based capital

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The assessment of appropriate **assumptions for future experience** should have regard to past, current and expected future experience and to any other relevant data. The assumptions should be best estimate and **entity specific** rather than being based on the assumptions a market participant would use. Changes in future experience should be allowed for in the VIF when sufficient evidence exists. The assumptions should be **actively reviewed**.

- · Best estimate assumptions: each component of cash flow, each policy group
- Dynamic policyholder behavior considered in TVOG
- Expense ongoing levels except for startups (overruns separately in VIF)
- "Look through" basis for service companies' costs, allocation of holdings' costs
- External service companies allowed for through actual and expected fees
- Tax rates should consider the cash flows and tax position of the company

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#12 Economic Assumptions

Economic assumptions must be internally consistent and should be determined such that projected cash flows are valued in line with the prices of similar cash flows that are traded on the capital market. No smoothing of market or account balance values or unrealised gains is permitted.

- Where appropriate market instruments are available **price inflation** assumptions should be derived from them
- Investment returns must be those actually earned on a market basis over the period

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#17 Disclosure

MCEV results should be disclosed at consolidated group level using a business classification consistent with the primary statements, with clear description of what business is covered by MCEV Methodology and what is not. Except where they are not considered material, compliance with the MCEV Principles is compulsory and should be explicitly disclosed.

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Consistent Analysis of Movement				
	Earnings on MCEV analysis			
	FS RC VIF MCEV			
Opening MCEV				
Opening adjustments				
Adjusted opening MCEV				
New business value				
Expected existing business contribution (reference rate) (1) (2)				
Expected existing business contribution (in excess of reference rate) (1) (3)				
Transfer from VIF and required capital to free surplus				
Experience variances				
Assumption changes				
Other operating variance				
Operating MCEV earnings				
Economic variances				
Other non operating variance				
Total MCEV earnings				
Closing adjustments				
Closing MCEV				
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Consistent analysis	s of Group I	MCEV	
	Covered business MCEV	Non covered business IFRS	Total Group MCEV
Opening Group MCEV			
Opening adjustments			
Adjusted opening Group MCEV			
Operating MCEV earnings			
Non-operating MCEV earnings			
Total MCEV earnings			
Other movements in IFRS net equity			
Closing adjustments			
Closing Group MCEV			
Example footnote: Non covered b representing asset management p modelled with the covered busine	usiness reflects CU X profits for managing c ess MCEV	m less profit than IFI overed business ass	RS reporting sets that has
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	MCEV	Solvency II*	IFRS 4 Phase II**
Market-consistent financial assumptions driving best-estimate liability	Yes	Yes	Yes/Yes?/Yes?
Liability includes a risk margin above financial BEL	Yes	Yes	Yes/Yes/Yes
Current, not locked-in, assumptions	Yes	Yes	Yes/Yes/Yes
Scope of liabilities	Covered business	All	insurance + Investment DPF/Excluding IAS 39 Investment contracts/Excluding IAS 39 Investment contracts
Market value for all assets	Yes	Yes	No (IAS 39)
Entity-specific demographic / expense assumptions	Yes	Yes	Yes/No?/Yes
Reflect best estimate renewal premiums	Yes	Yes	Yes/No?/No?
Reflect best estimate policyholder benefits	Yes	Yes	Yes/No?/No?
Calibrate insurance liability valuation to premium at issue	No	No	No/No?/Depending on methodology
Own credit risk in valuation	No	No	No/Yes?/No
Diversification across portfolios considered	Yes	Yes	Yes/No?/No?
Discounted tax assets/liabilities	Yes	?	No/No/No
Frictional cost on total required capital	Yes	No	?

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