

Introduction



Introduction to IFRS 17

What is wrong with IFRS 4?

Insurance Contracts IFRS	
Phase I (2005)	Phase II (2022)
IFRS 4	IFRS 17

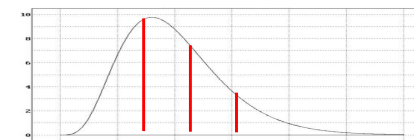
IFRS 4 allows for a wide range of insurance liabilities modelling methods that can be applied as long as they satisfy the Liability Adequacy Test.



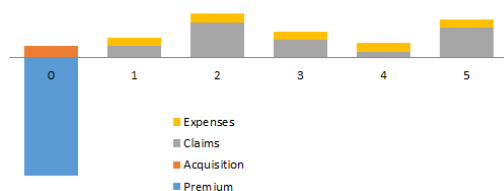
Lack of comparability between countries



Lack of comparability between companies



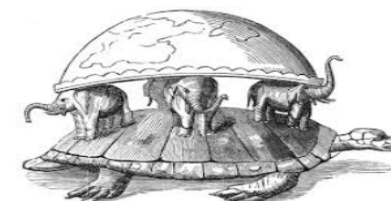
Different levels of safety embedded in insurance liabilities calculations



Valuation of insurance liabilities does not have to be cash flow-based



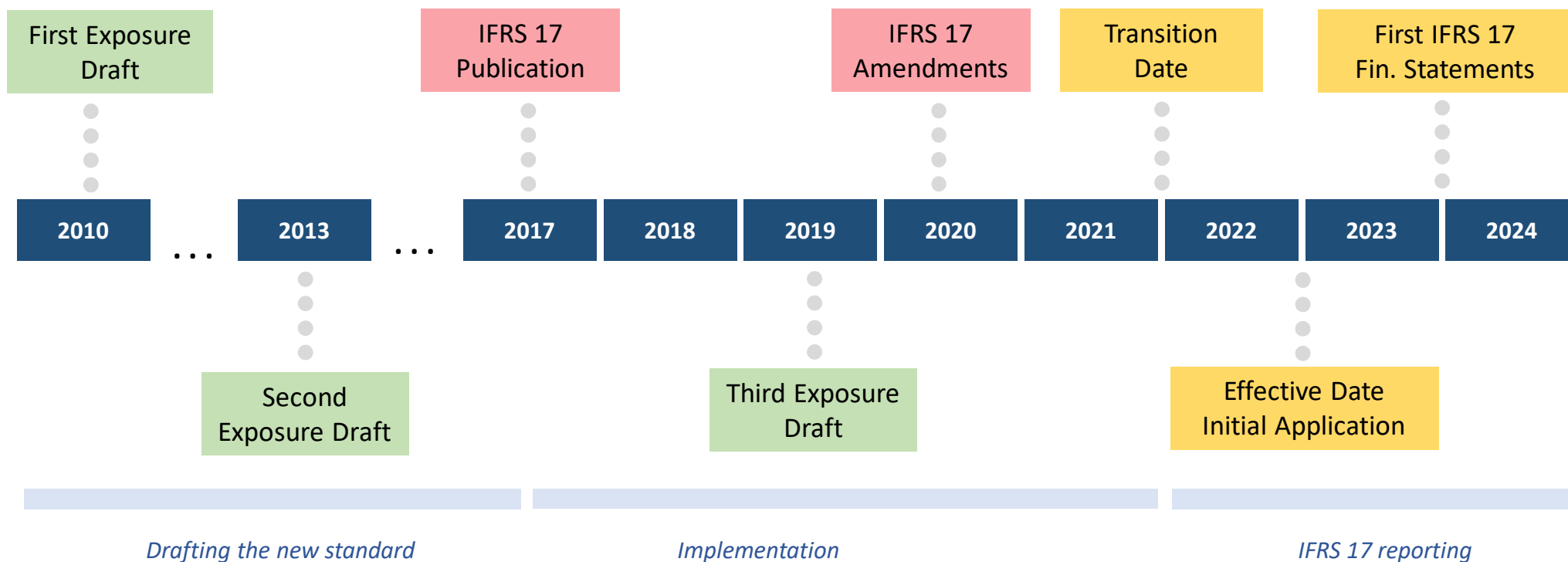
Discounting is not always required, typically non-life TPs valued on an undiscounted basis



Insurance liabilities may be calculated based on historical assumptions

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Timeline



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Measurement models overview [1]



	General Model (GM)	Variable Fee Approach (VFA)	Premium Allocation Approach (PAA)	
Application	Default approach	Contracts linked to underlying assets	Short term contracts (less than 1 year)	
Examples	Endowments, Terms, Annuities, Whole Life	Unit Links, With Profits	1-year non-life, health or life insurance	
LFRC	PVCF + RA + CSM	(FV Assets) - (Var. Fee) + RA + CSM	Similar to unearned premium reserve	
LIC	PVCF + RA	PVCF + RA	PVCF + RA	
Ins/Reins	Insurance issued Reinsurance held	Insurance issued	Insurance issued Reinsurance held	
Onerousness	Non-onerous Onerous	Non-onerous Onerous	Non-onerous, Onerous(*)	

PVCF - Present Value of Cash Flows

RA – Risk Adjustment

CSM - Contractual Service Margin

LFRC - Liability for Remaining Coverage

LIC - Liability for Incurred Claims

(*) measured using the fulfilment CF measurement

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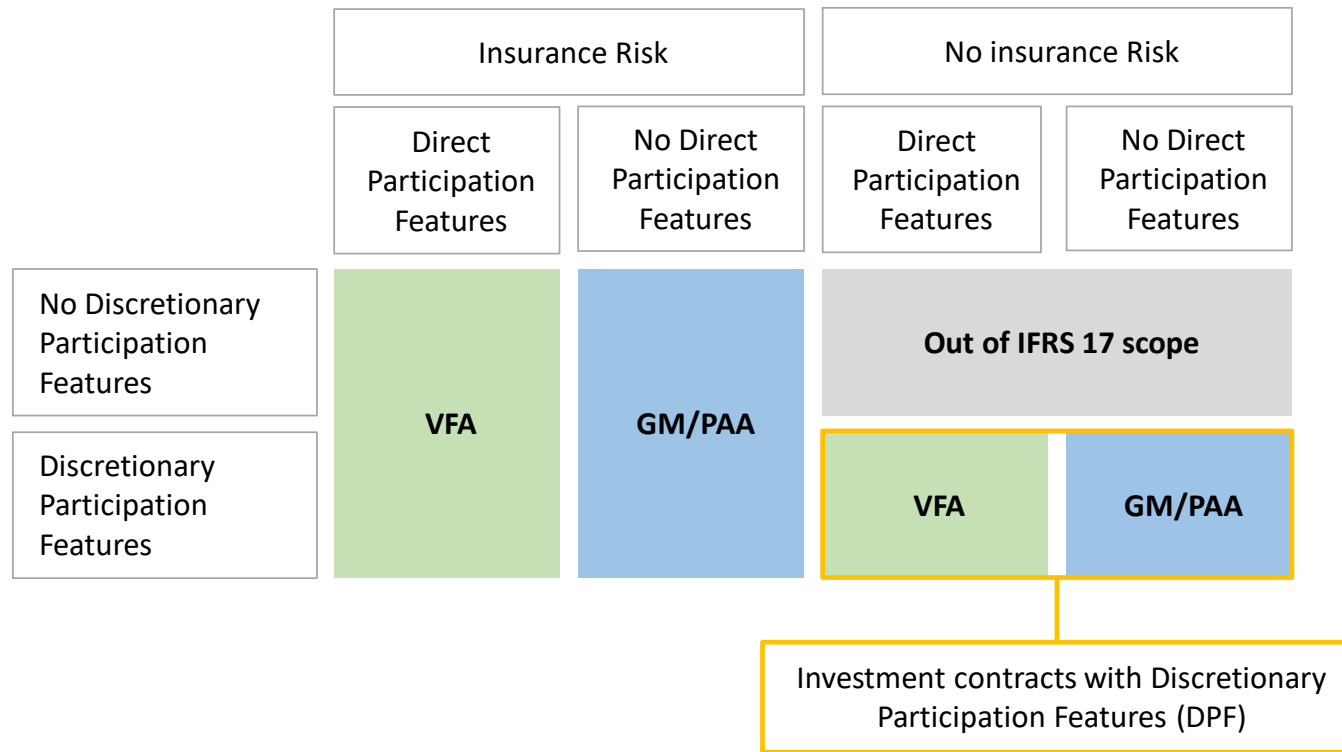
Measurement models overview [2]

IFRS 17 scope:

Insurance contracts

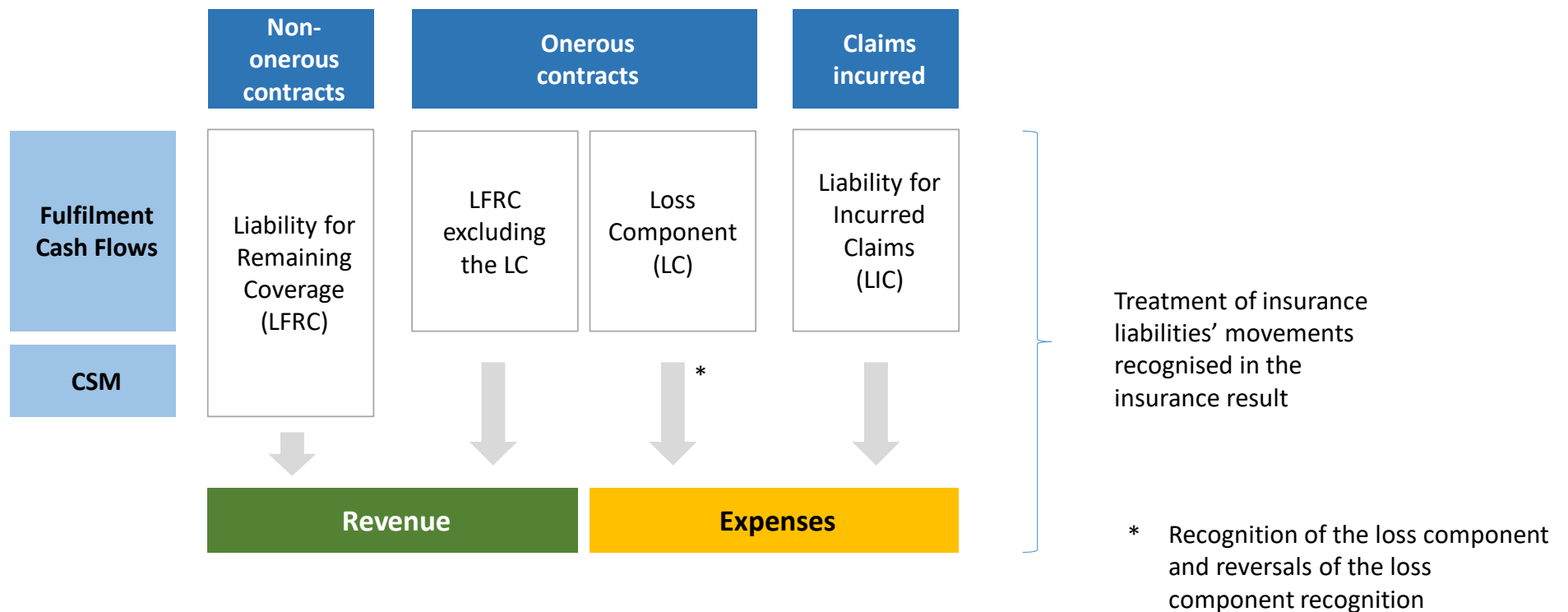
Reinsurance held

Investments with DPF



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Components of insurance liability

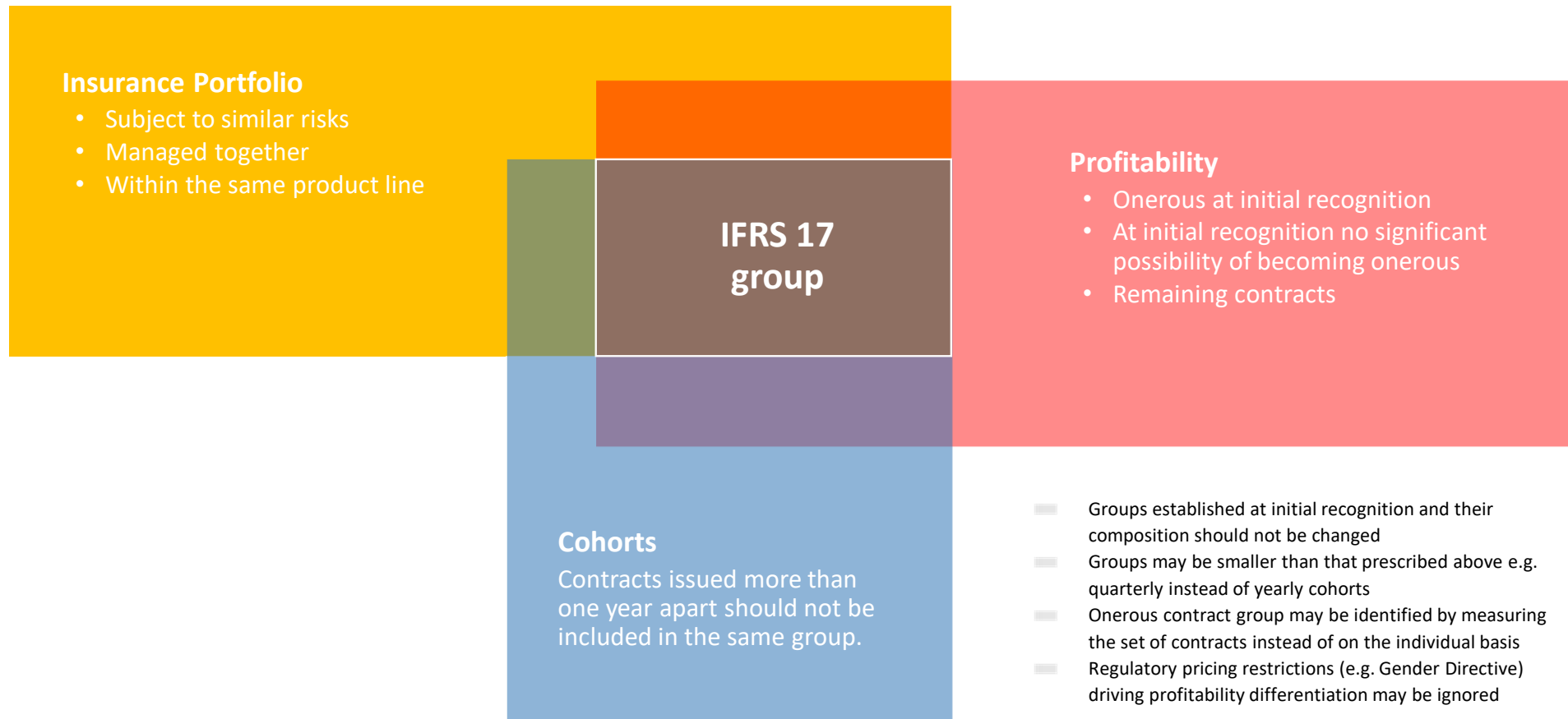


Group level vs Portfolio level accounting



Group level vs Portfolio level

IFRS 17 groups – level of aggregation



Group level vs Portfolio level

Level of aggregation concept



Frequency of calculations

Daily calculations, monthly, quarterly, once in the reporting period

Level of calculations

Group, portfolio, segment, entity level, provided that article 24 is satisfied

Level of accounting

Group, portfolio, segment, entity level

Locked-in discount rate

Group, accident year (PAA OCI)

Aggregating losses with gains

Group



Level of Aggregation Rules

Article 24

To measure a group of contracts, an entity may estimate the fulfilment cash flows at a higher level of aggregation than the group or portfolio, provided the entity is able to include the appropriate fulfilment cash flows in the measurement of the group, applying paragraphs 32(a), 40(a)(i) and 40(b), by allocating such estimates to groups of contracts.

Group level vs Portfolio level

Introduction



Article 24

To measure a group of contracts, an entity may estimate the *fulfilment cash flows* at a higher level of aggregation than the group or portfolio, provided the entity is able to include the appropriate fulfilment cash flows in the measurement of the group, applying paragraphs 32(a), 40(a)(i) and 40(b), by allocating such estimates to groups of contracts.

Option A

Allocate to group all fulfilment cash flows, regardless of whether it is needed for measurement or not.

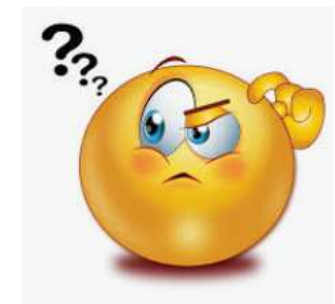
Option B

Allocate to group fulfilment cash flows only when it is needed for the measurement.

$$M(\text{Gr1}) + M(\text{Gr2}) + \dots + M(\text{Grn}) = M(\text{Gr1} \cup \text{Gr2} \cup \dots \cup \text{Grn})$$

M(.) – IFRS 17 measurement

In what cases does the equation hold?



Group level vs Portfolio level

Introduction



$$M(\text{Gr1}) + M(\text{Gr2}) + \dots + M(\text{Grn}) = M(\text{Gr1} \cup \text{Gr2} \cup \dots \cup \text{Grn})$$

		LIC	LFRC	
GM (no OCI)	Onerous and non-onerous			Equitation holds
GM (OCI)		(*)		Equitation doesn't hold
VFA				
PAA (no OCI)				
PAA (OCI)		(**)		(*) In most cases, the OCI effect on claims is immaterial, e.g. may be material for annuity-type claims
PAA (no OCI)	Non-onerous			
PAA (OCI)		(**)		(**) grouping by accident date required

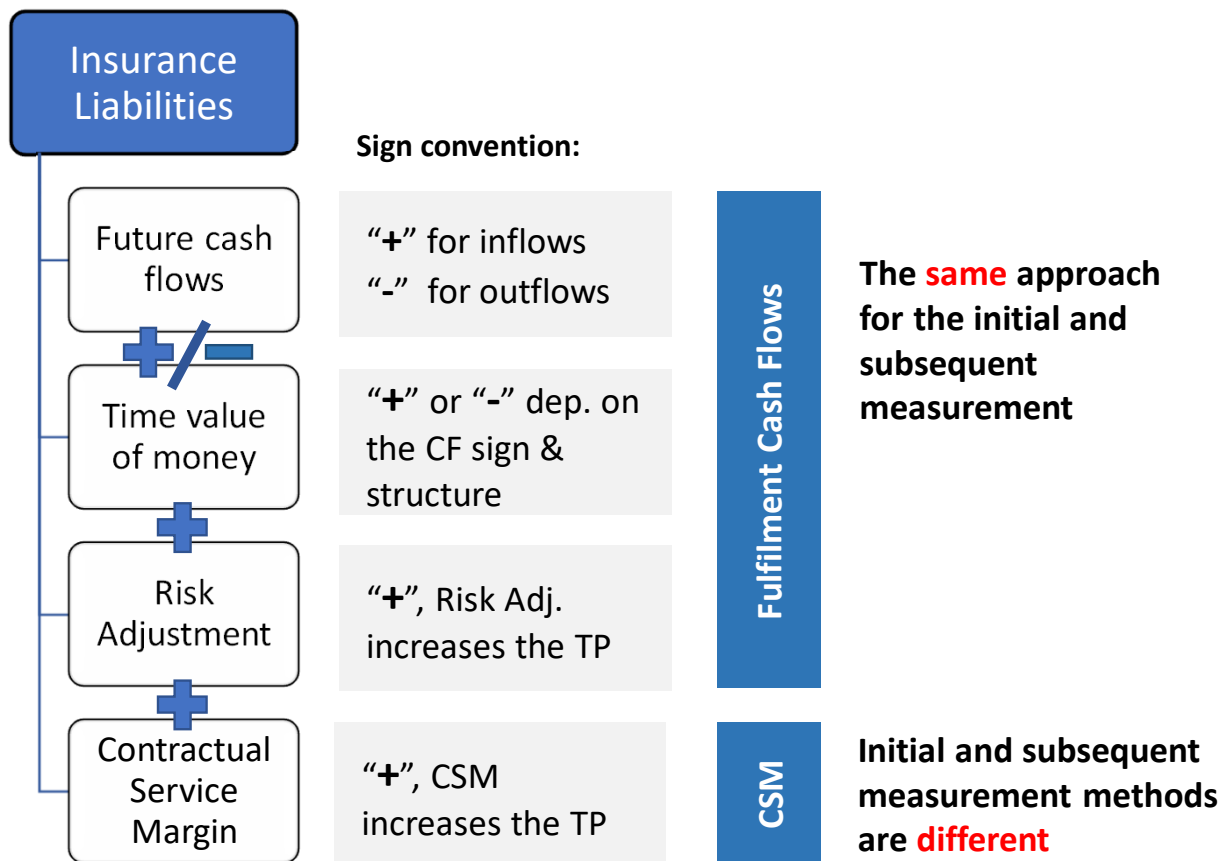
Measurement

General Model (GM)

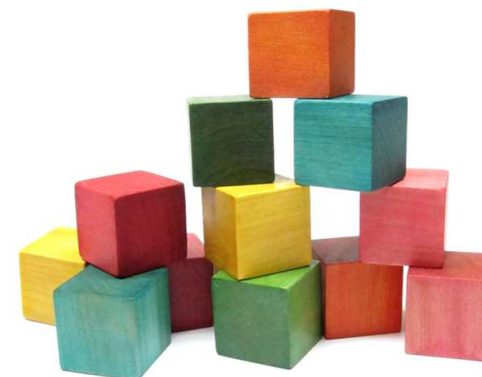


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Overview

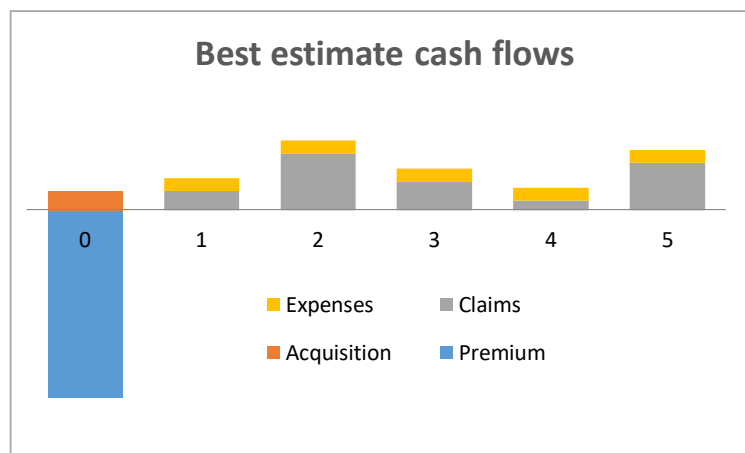
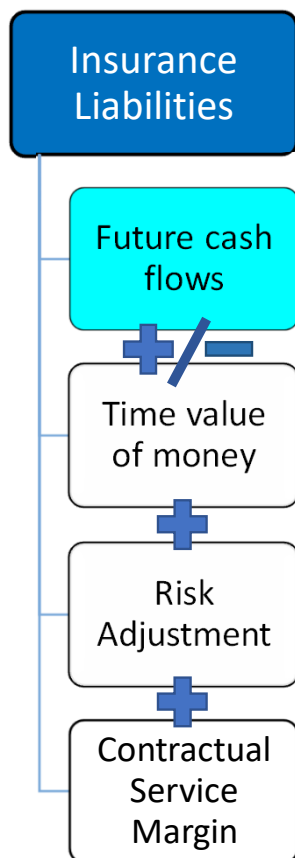


The General Model is a default IFRS 17 insurance liabilities measurement approach



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Cash flows



Recognition

The earliest of the following:

- beginning of the coverage period
- date when the first premium becomes due
- when the group becomes onerous

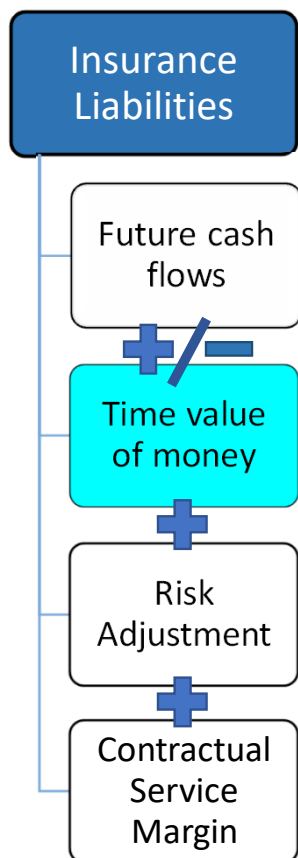
Cashflow boundary

- Substantive rights exist
- Ability to reassess the risk and change the premiums or benefits

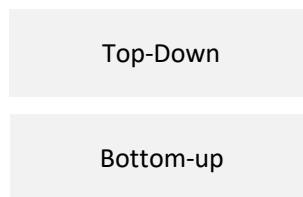
- Best estimate of cash flows
- Reassessed at each reporting date
- Assumptions based on experience
- Reflect conditions existing at the measurement date
- Within boundary of the contract
- Unbundle distinct components: investments, derivatives or service
- Can be done at portfolio level and allocated to insurance groups

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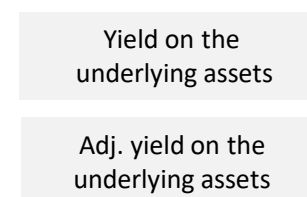
Discounting [1]



Insurance cash flows are **not directly linked** to assets



Insurance cashflows **directly linked** to assets



Assets reference portfolio rate	5.5%
Duration mismatch adjustment	0.5%
Credit Risk premium for expected losses (Probability of Default)	-1.5%
Credit risk premium for unexpected losses (Cost of Downgrade)	-0.5%
Top-down IFRS 17 discount rate	4.0%
Bottom-up IFRS 17 discount rate	3.5%
Liquidity premium	1.5%
Swap rate (risk free rate)	2.0%



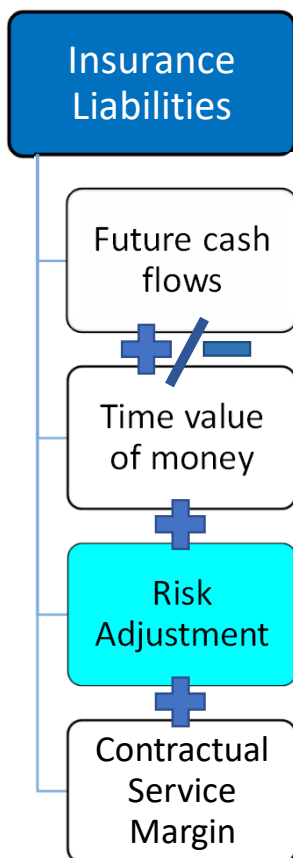
Top-Down



Bottom-up

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Risk Adjustment

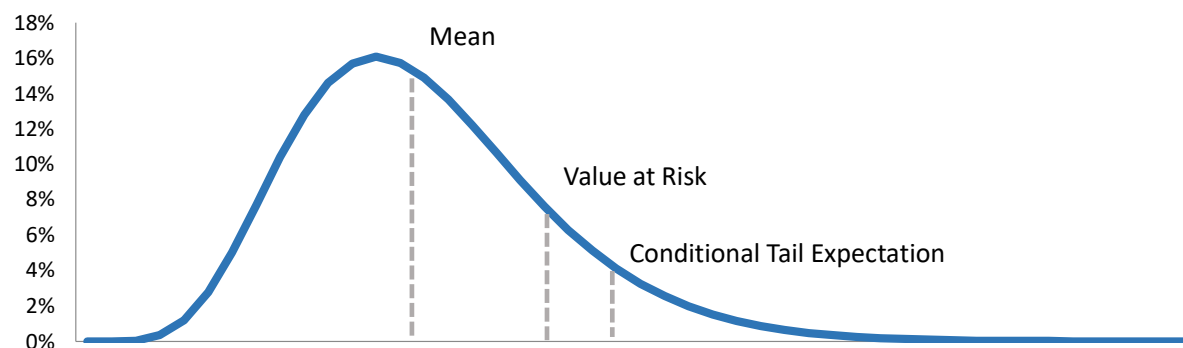


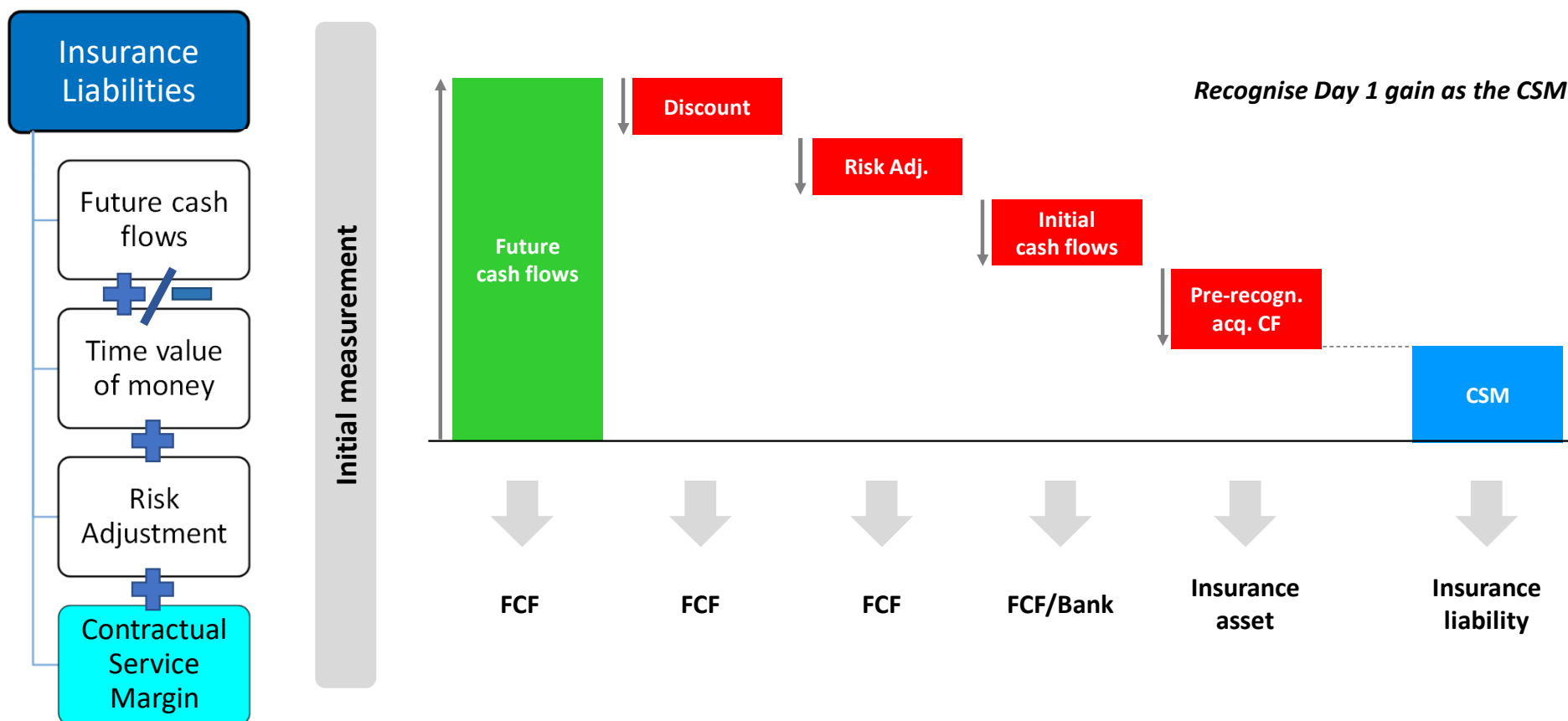
Risk Adjustment calculation method is not specified in the standard, but it should follow the following principles:

- longer duration
- higher severity
- wider distribution
- less is known

➔ Higher risk
Greater Risk Adjustment

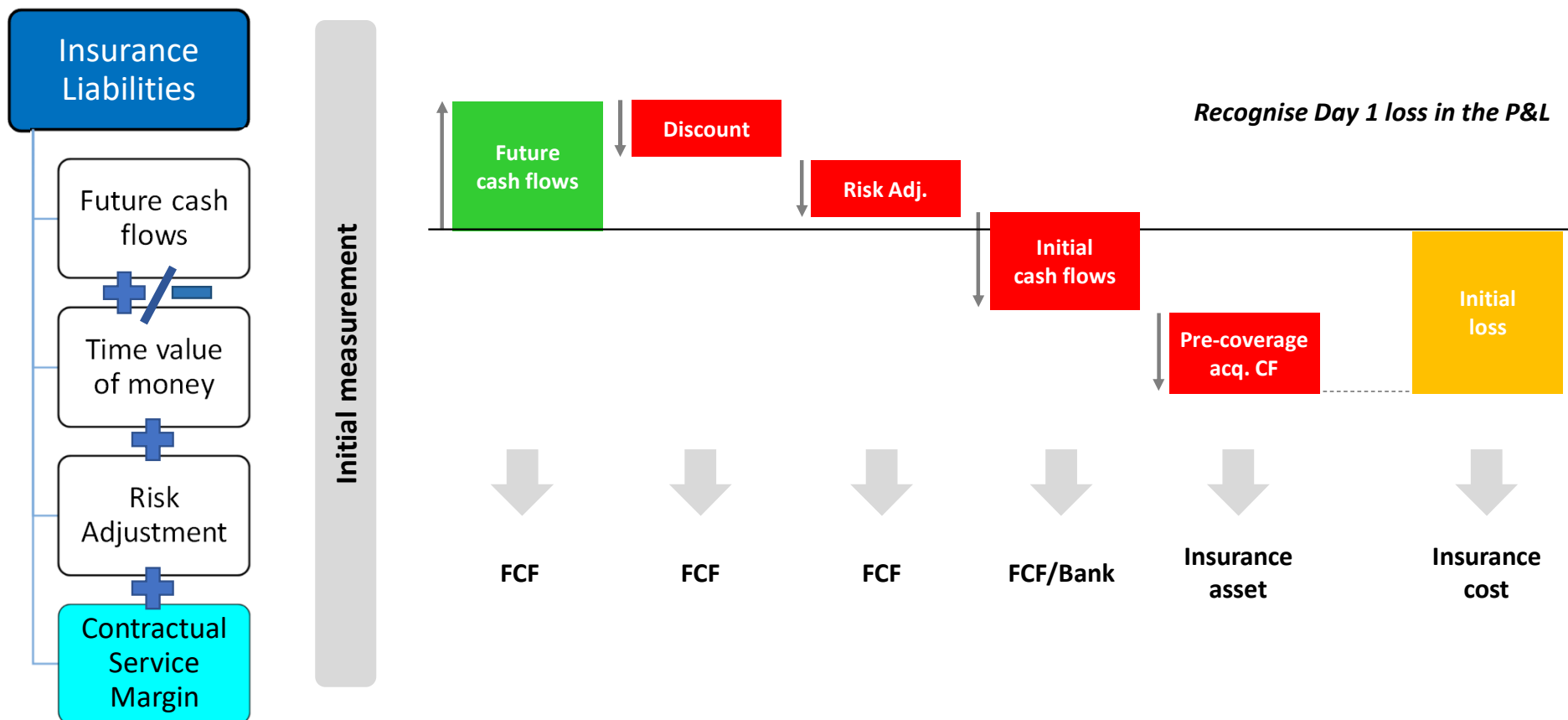
Confidence level based methods





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CSM initial measurement [2]



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CSM initial measurement: examples



Profitable product

	Year0	Year1	Year2	Year3
Expected Premium	1000			
Expected Acquisition	300			
Expected Benefit		100	100	100
Expected Expenses		15	15	15
CFs for Res.Calc.	-700	115	115	115

Discount Factor	1.00	0.95	0.91	0.86
-----------------	------	------	------	------

Future CFs	-355.00
TV of Money	-31.83
Discounted CFs	-386.83

RA	31.32
----	-------

CSM	355.51
-----	--------

TP total	0.00
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Onerous product

	Year0	Year1	Year2	Year3
Expected Premium	400			
Expected Acquisition	120			
Expected Benefit		100	100	100
Expected Expenses		15	15	15
CFs for Res.Calc.	-280	115	115	115

Discount Factor	1.00	0.95	0.91	0.86
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Future CFs	65.00
TV of Money	-31.83
Discounted CFs	33.17

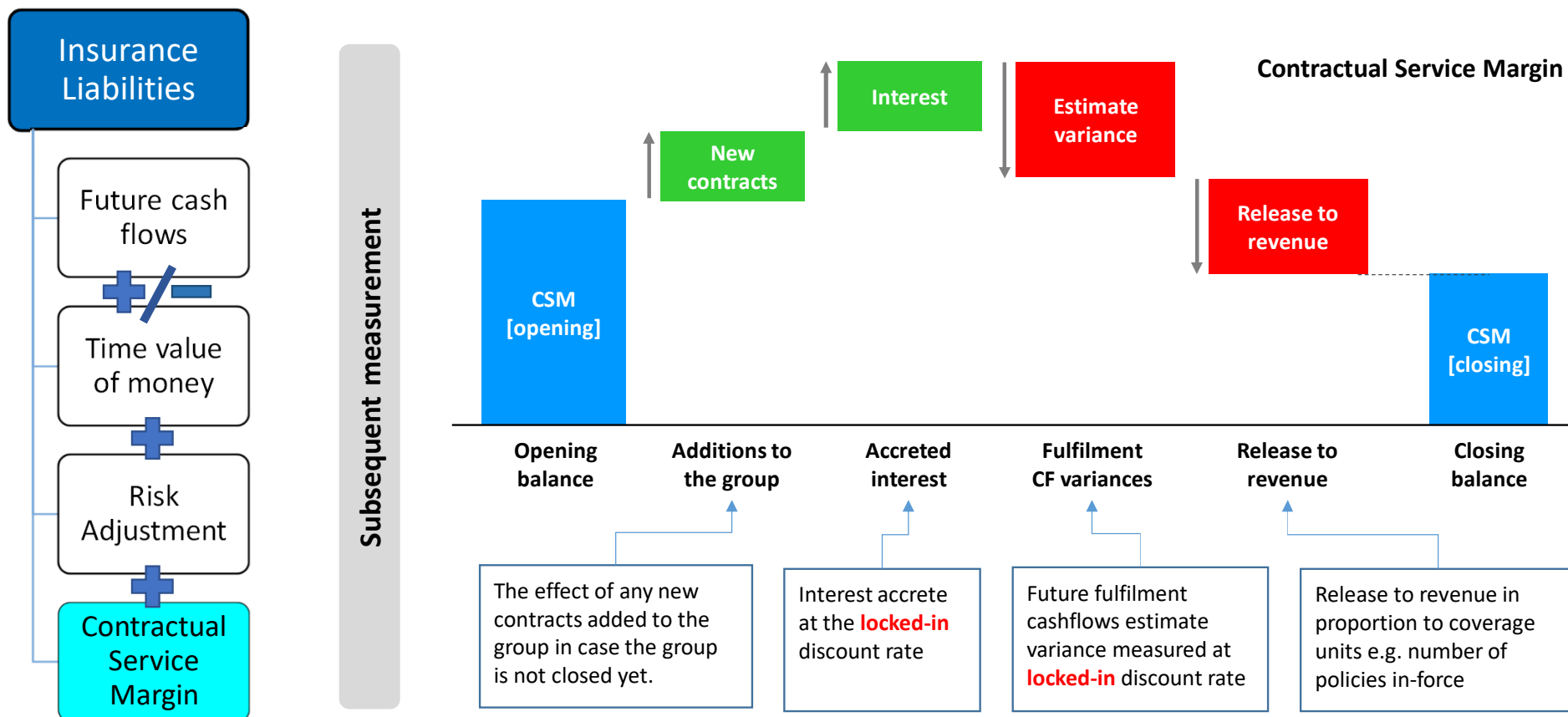
RA	31.32
----	-------

CSM	0.00
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TP total	64.49
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CSM subsequent measurement



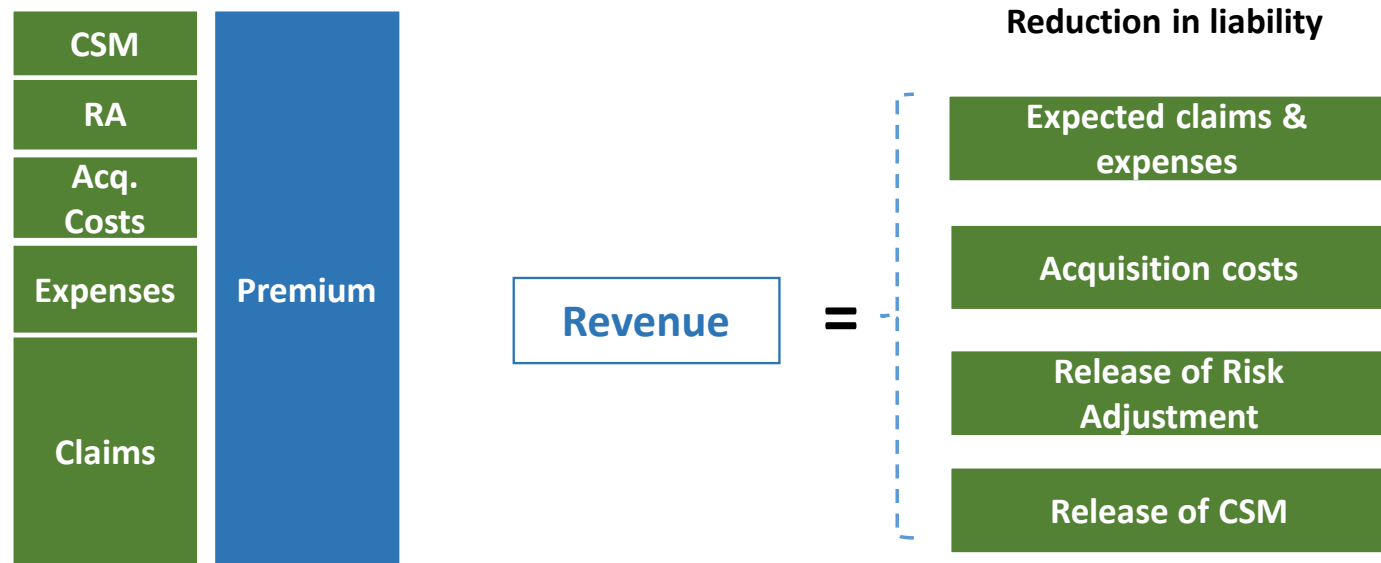
IFRS 17 Accounting Examples



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PAA loss component

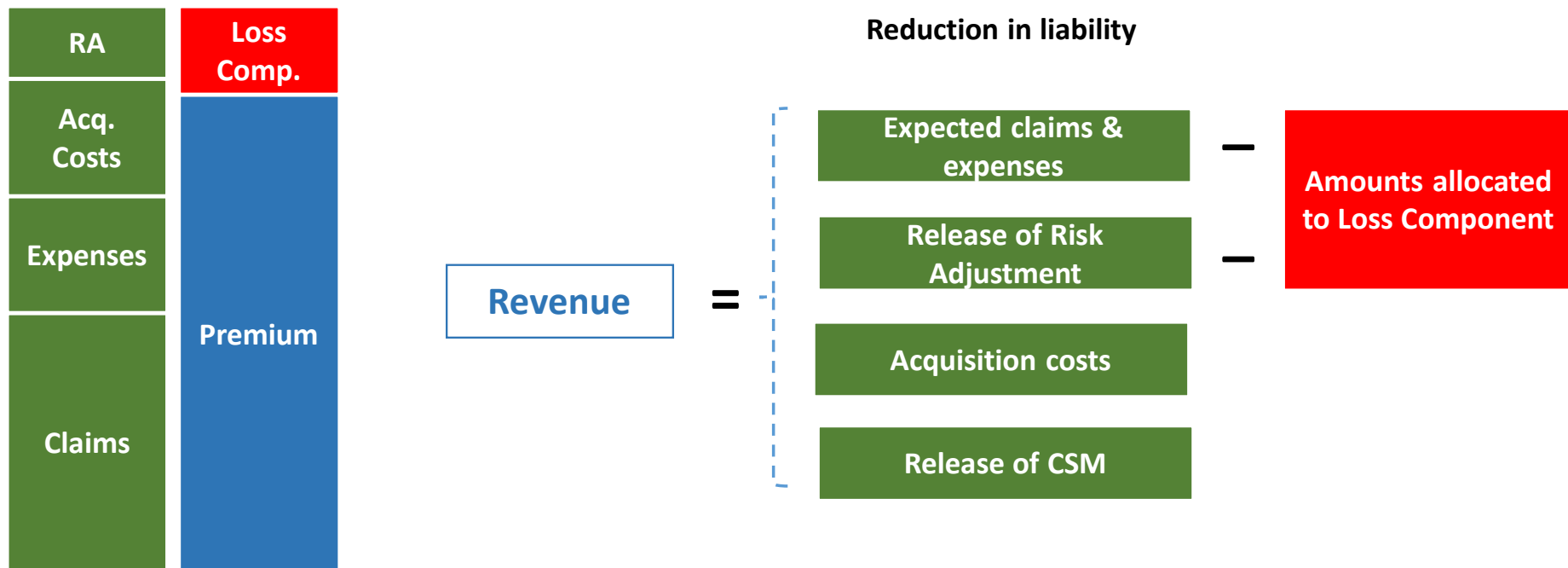
Revenue under the GM – *without loss component*



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PAA loss component

Revenue under the GM – *with loss component*



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IFRS 17 Reporting – Example 1



Example 1 - profitable; no variances

Expected cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(300)	(300)	(600)
Acquisition costs	-	-	-	-
Total	1000	(300)	(300)	400

Actual cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(300)	(300)	(600)
Acquisition costs	-	-	-	-
Total	1000	(300)	(300)	400

Income statement	1	2	Total	
Expected claims & expenses	300	300	600	
Release of the CSM	200	200	400	
Acquisition costs experience adj.	-	-	-	
Premiums experience adj.	-	-	-	
Acquisition costs recognition	-	-	-	
Insurance revenue	500	500	1000	
Actual claims and expenses	(300)	(300)	(600)	
Acquisition cost recognition	-	-	-	
Loss component recognition	-	-	-	
Loss component run-off	-	-	-	
Insurance service costs	(300)	(300)	(600)	
Profit or loss	200	200	400	
CSM	400	200	-	n/a
Loss component	-	-	-	n/a

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IFRS 17 Reporting – Example 2



Example 2 - profitable, no variances, acquisition costs recognition

Expected cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(300)	(300)	(600)
Acquisition costs	(200)	-	-	(200)
Total	800	(300)	(300)	200

Actual cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(300)	(300)	(600)
Acquisition costs	(200)	-	-	(200)
Total	800	(300)	(300)	200

Income statement	1	2	Total	
Expected claims & expenses	300	300	600	
Release of the CSM	100	100	200	
Acquisition costs experience adj.	-	-	-	
Premiums experience adj.	-	-	-	
Acquisition costs recognition	100	100	200	
Insurance revenue	500	500	1000	
Actual claims and expenses	(300)	(300)	(600)	
Acquisition cost recognition	(100)	(100)	(200)	
Loss component recognition	-	-	-	
Loss component run-off	-	-	-	
Insurance service costs	(400)	(400)	(800)	
Profit or loss	100	100	200	
CSM	200	100	-	n/a
Loss component	-	-	-	n/a

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IFRS 17 Reporting – Example 3



Example 3 - onerous at recognition and onerous subsequently, no variances

Expected cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(600)	(600)	(1200)
Acquisition costs	-	-	-	-
Total	1000	(600)	(600)	(200)

Actual cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(600)	(600)	(1200)
Acquisition costs	-	-	-	-
Total	1000	(600)	(600)	(200)

Income statement	1	2	Total
Expected claims & expenses (*)	500	500	1000
Release of the CSM	-	-	-
Acquisition costs experience adj.	-	-	-
Premiums experience adj.	-	-	-
Acquisition costs recognition	-	-	-
Insurance revenue	500	500	1000
Actual claims and expenses	(600)	(600)	(1200)
Acquisition cost recognition	-	-	-
Loss component recognition	(200)	-	(200)
Loss component run-off	100	100	200
Insurance service costs	(700)	(500)	(1200)
Profit or loss	(200)	-	(200)
CSM	-	-	-
Loss component	(200)	(100)	-

(*) less the loss component run-off

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IFRS 17 Reporting – Example 4



Example 4 – profitable; claims experience adjustment in year 1

Expected cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(300)	(300)	(600)
Acquisition costs	-	-	-	-
Total	1000	(300)	(300)	400

Actual cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(500)	(300)	(800)
Acquisition costs	-	-	-	-
Total	1000	(500)	(300)	200

Income statement	1	2	Total	
Expected claims & expenses	300	300	600	
Release of the CSM	200	200	400	
Acquisition costs experience adj.	-	-	-	
Premiums experience adj.	-	-	-	
Acquisition costs recognition	-	-	-	
Insurance revenue	500	500	1000	
Actual claims and expenses	(500)	(300)	(800)	
Acquisition cost recognition	-	-	-	
Loss component recognition	-	-	-	
Loss component run-off	-	-	-	
Insurance service costs	(500)	(300)	(800)	
Profit or loss	-	200	200	
CSM	400	200	-	n/a
Loss component	-	-	-	n/a

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IFRS 17 Reporting – Example 5



Example 5 - profitable; change in claims estimates in year 1

Expected cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(300)	(300)	(600)
Acquisition costs	-	-	-	-
Total	1000	(300)	(300)	400

Expected cash flows		2	Total
Premiums		-	-
Claims & expenses		(400)	(400)
Acquisition costs		-	-
Total		(400)	(400)

Actual cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(300)	(400)	(700)
Acquisition costs	-	-	-	-
Total	1000	(300)	(400)	300

Income statement	1	2	Total	
Expected claims & expenses	300	400	700	
Release of the CSM	150	150	300	
Acquisition costs experience adj.	-	-	-	
Premiums experience adj.	-	-	-	
Acquisition costs recognition	-	-	-	
Insurance revenue	450	550	1000	
Actual claims and expenses	(300)	(400)	(700)	
Acquisition cost recognition	-	-	-	
Loss component recognition	-	-	-	
Loss component run-off	-	-	-	
Insurance service costs	(300)	(400)	(700)	
Profit or loss	150	150	300	
CSM	400	150	-	n/a
Loss component	-	-	-	n/a

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IFRS 17 Reporting – Example 6



Example 6 - profitable at recognition, onerous subsequently; change in claims estimates in year 1

Expected cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(400)	(400)	(800)
Acquisition costs	-	-	-	-
Total	1000	(400)	(400)	200

Expected cash flows	2	Total
Premiums	-	-
Claims & expenses	(700)	(700)
Acquisition costs	-	-
Total	(700)	(700)

Actual cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(400)	(700)	(1100)
Acquisition costs	-	-	-	-
Total	1000	(400)	(700)	(100)

Income statement	1	2	Total
Expected claims & expenses (*)	400	600	1000
Release of the CSM	-	-	-
Acquisition costs experience adj.	-	-	-
Premiums experience adj.	-	-	-
Acquisition costs recognition	-	-	-
Insurance revenue	400	600	1000
Actual claims and expenses	(400)	(700)	(1100)
Acquisition cost recognition	-	-	-
Loss component recognition	(100)	-	(100)
Loss component run-off	-	100	100
Insurance service costs	(500)	(600)	(1100)
Profit or loss	(100)	-	(100)
CSM	200	-	n/a
Loss component	-	100	n/a

(*) less the loss component run-off

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IFRS 17 Reporting – Example 7



Example 7 - profitable; premium experience adjustment in year 1

Expected cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(300)	(300)	(600)
Acquisition costs	-	-	-	-
Total	1000	(300)	(300)	400

Actual cash flows	0	1	2	Total
Premiums	1000	200	-	1200
Claims & expenses	-	(300)	(300)	(600)
Acquisition costs	-	-	-	-
Total	1000	(100)	(300)	600

Income statement	1	2	Total	
Expected claims & expenses	300	300	600	
Release of the CSM	200	200	400	
Acquisition costs experience adj.	-	-	-	
Premiums experience adj.	200	-	200	
Acquisition costs recognition	-	-	-	
Insurance revenue	700	500	1200	
Actual claims and expenses	(300)	(300)	(600)	
Acquisition cost recognition	-	-	-	
Loss component recognition	-	-	-	
Loss component run-off	-	-	-	
Insurance service costs	(300)	(300)	(600)	
Profit or loss	400	200	600	
CSM	400	200	-	n/a
Loss component	-	-	-	n/a

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IFRS 17 Reporting – Example 8



Example 8 - profitable, acquisition costs experience adjustment in year 1

Expected cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(300)	(300)	(600)
Acquisition costs	(200)	-	-	(200)
Total	800	(300)	(300)	200

Actual cash flows	0	1	2	Total
Premiums	1000	-	-	1000
Claims & expenses	-	(300)	(300)	(600)
Acquisition costs	(200)	(100)	-	(300)
Total	800	(400)	(300)	100

Income statement	1	2	Total	
Expected claims & expenses	300	300	600	
Release of the CSM	100	100	200	
Acquisition costs experience adj.	(100)	-	(100)	
Premiums experience adj.	-	-	-	
Acquisition costs recognition	200	100	300	
Insurance revenue	500	500	1000	
Actual claims and expenses	(300)	(300)	(600)	
Acquisition cost recognition	(200)	(100)	(300)	
Loss component recognition	-	-	-	
Loss component run-off	-	-	-	
Insurance service costs	(500)	(400)	(900)	
Profit or loss	-	100	100	
CSM	200	100	-	n/a
Loss component	-	-	-	n/a

IFRS 17 vs Solvency II



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Solvency II and IFRS 17 – Differences [1]



	Solvency II	IFRS 17
Goal	Capital adequacy and risk management	Show financial position and result for the reporting period
Scope	Assets and liabilities, own funds, capital requirements	Recognition, measurement, presentation and disclosure of insurance liabilities
Contracts covered	All contracts giving rise to assets or liabilities	(Re)insurance contracts issued, reinsurance contracts held, investments with DPF
Geographical coverage	EEA i.e. the European Union plus Iceland, Liechtenstein and Norway	All insurance and reinsurance companies in the world reporting under IFRS
Acquisition cost	Recognised immediately	Recognised in systematic way over the insurance period
Discounting	Risk free rate with adjustments: matching adj., volatility adj., discount rate transitional	Risk-free rate plus illiquidity adjustment
Initial gain	Recognised immediately in P&L	Initial gain recognised gradually over the insurance coverage period

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Solvency II and IFRS 17 – Differences [2]



	Solvency II	IFRS 17
Contract beginning	Earlier of the coverage period and policy date	Earlier of the coverage period, first premium due, the group becomes onerous
Contract end	Unilateral right to terminate contract, amend premiums or benefits	Similar to Solvency II, however, only insurance and financial risk considered
Short-term contracts	No special treatment of short-term contracts	Simplification allowed for short-term contracts
Grouping	Homogeneous Risk Groups	Groups based on portfolio, profitability and underwriting period
Risk Adjustment	Cost of Capital method, applied only to the insurance liabilities	No method prescribed; RA applied to both insurance liabilities and reinsurance held
Unbundling	Not required	Distinct derivative, investment or service components should be unbundled
Expenses	Cashflow models include overhead expenses	Cashflow models include only expenses that relate directly to the ins. contract fulfilment

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Solvency II and IFRS 17 – Differences [3]

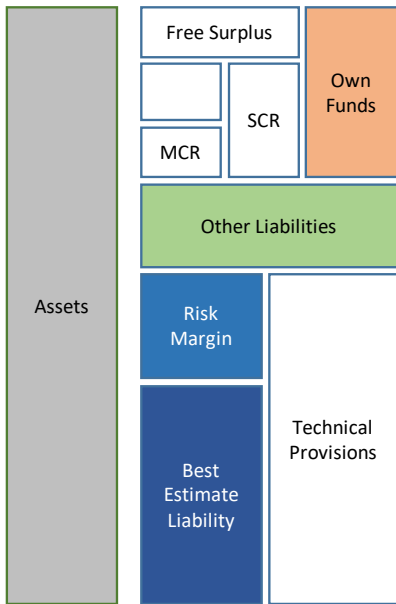


	Solvency II	IFRS 17
Reinsurance modeling	Reinsurance modelling mirrors the related insurance contract calculations	Reinsurance held and the related insurance contract are modelled independently
Transition	Possibility to apply transitional measures on the TPs or TPs discount rates	Possible simplifications related to the transitional CSM
Disclosures	Disclosures focused on the solvency position and risk management (QRT, SFCR, ORSA)	Disclosures focused on explaining the financial position and result for the period
Contracts with DPF	“Surplus Funds” defined in the UK regulations excluded from the TPs	Does not regulate the country specific elements, IFRS is principle based
Effective date	1 January 2016	1 January 2023, with an earlier implementation option

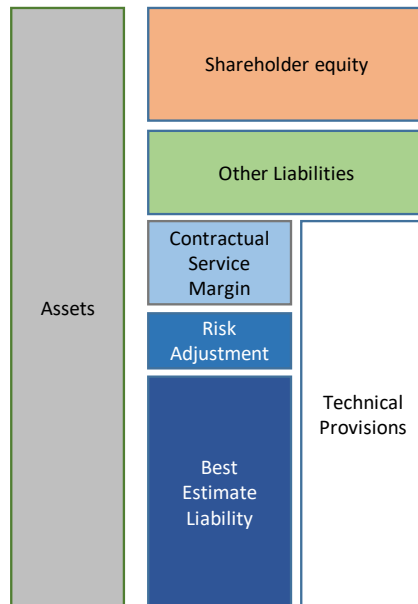
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Solvency II vs IFRS 17 – Balance Sheet

Solvency II



IFRS 17



Spot the difference

