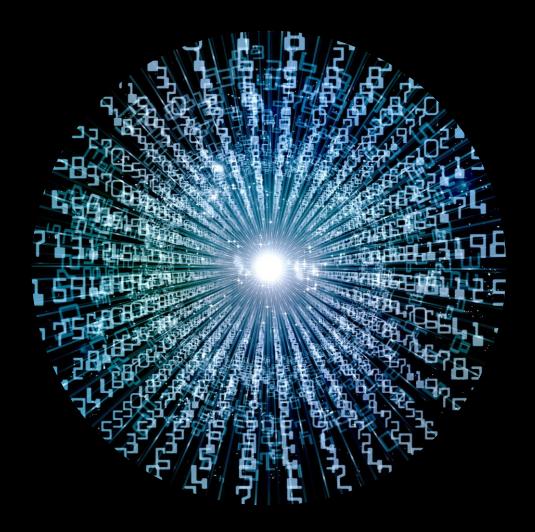
Deloitte.



IFRS 17: What does the long "awaited" standard bring?
24 November 2017, Prague

Agenda

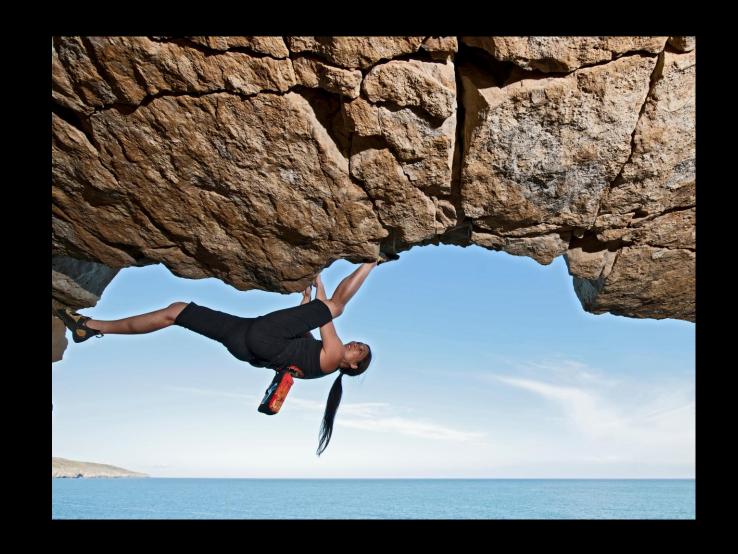
Part 1: Introduction to IFRS 17

Part 2: Measurement methodology

- Overview
- General model (BBA)
- Variable Fee Approach (VFA)
- Premium Allocation Approach

Part 3: Other key considerations

- Unit of Account
- New financial statements
- Part 4: Transition
- Part 5: Illustrative Examples



Part 1: Introduction to IFRS 17

Introduction to IFRS 17Aim and history of the project

Why new standard for insurers?



Comparability

1. Lack of comparability among insurers

Varying practices in applying IFRS 4

Various approaches even within insurance Groups

2. Lack of comparability between sectors of economy

Revenues include deposits

Different approach to revenue recognition



Updated assumptions

1. Outdated biometric assumptions

Assumptions are not adjusted to changing market environment

No lapse assumptions

2. Outdated Economic assumptions

Fixed technical rates, effects of changes not disclosed



Transparency

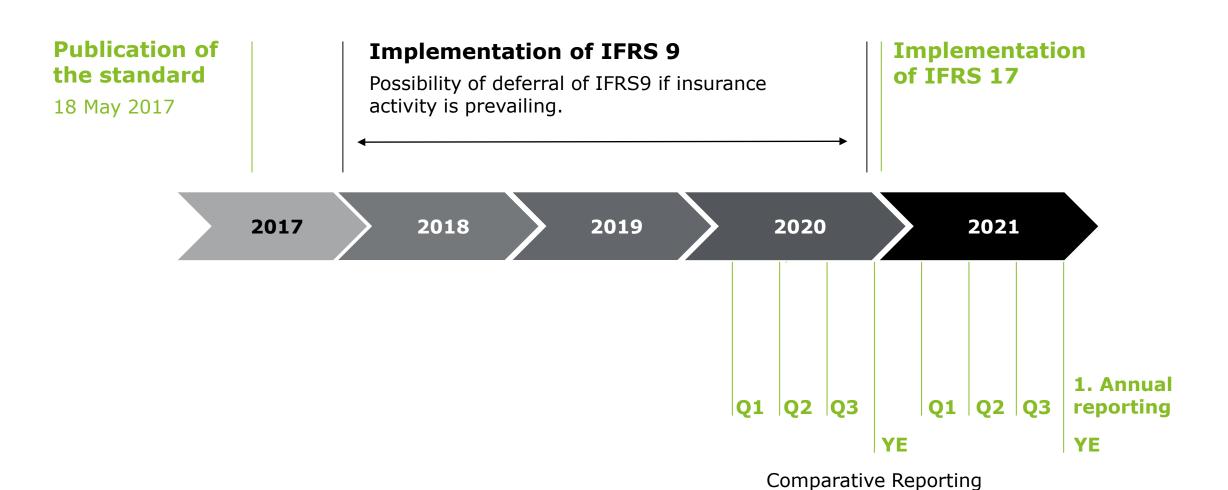
1. Lack of important disclosures

Not enough information on analysis of change and its sources

2. Cashflow-based accounting

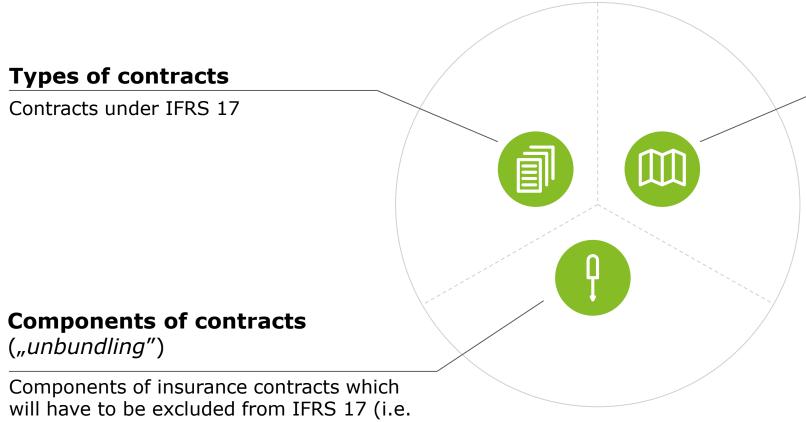
Financial reporting based on cashflows, and not on providing service during insurance period

What do we know today?



Introduction to IFRS 17What is an insurance contract?

Characteristics of contracts in IFRS 17



Contract boundaries

Defining what is the scope of cashflows to be included in the valuation

service components or investment components)

Contracts in terms of IFRS 17 (1 / 2)



Insurance contract

Reinsurance contract (active)

Reinsurance contract (passive)

An insurance contract with a discretionary participation feature



Insurance contract:

A contract under which one party (the issuer) accepts significant insurance risk from another party (the policyholder) by agreeing to compensate the policyholder if a specified uncertain future event (the insured event) adversely affects the policyholder."



Reinsurance contract:

An **reinsurance contract** issued by one entity (the 'reinsurer') to compensate another entity (the 'cedant') for claims arising from one or more **insurance contracts** that are issued by the cedant (underlying contracts)."

- Risk transfer
- Significant insurance risk
- Uncertain event
- Negative impact on the policyholder or the cedant

Contracts in terms of IFRS 17 (2 / 2)



Insurance contract

(active)

(passive)

Reinsurance contract Reinsurance contract An insurance contract with a discretionary participation feature



Insurance contract with a discretionary participation feature:

An insurance contract for which, at inception:

- (a) the contractual terms specify that the **policyholder** participates in a share of a clearly identified pool of **underlying items**;
- (b) the entity expects to pay to the **policyholder** an amount equal to a substantial share of the fair value returns on the underlying items; and
- (c) the entity expects a substantial proportion of any change in the amounts to be paid to the policyholder to vary with the change in fair value of the underlying items.

- Additional amounts expected to be a significant portion of the total contractual benefits
- Possible discretionary element
- Specified pool of underlying items

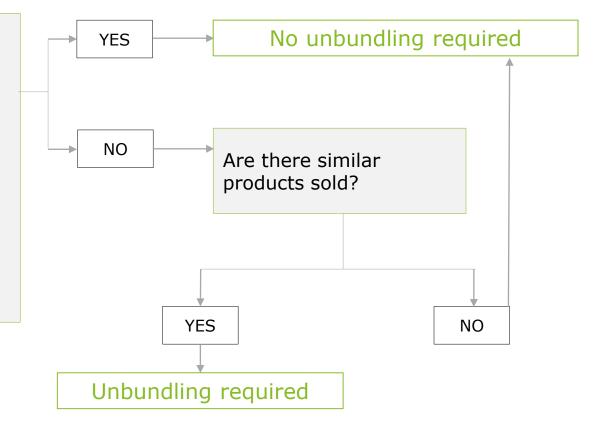
Unbundling – investments components



a) Is separate measurement impossible?

OR

b) Is the policyholder unable to benefit from one component without the other components, e.g. lapsing from one would mean also lapsing the other?



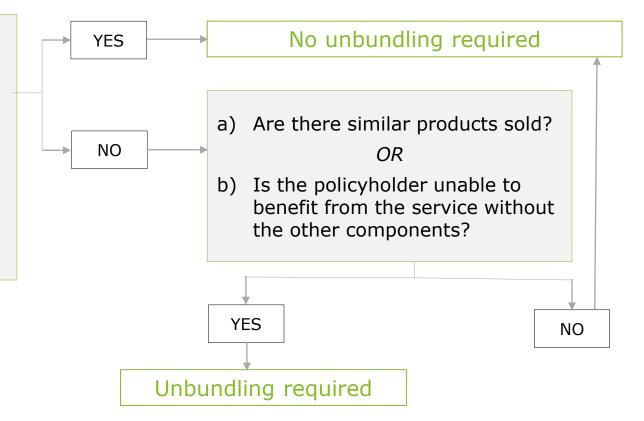
Unbundling – service components



a) Are cash flows and risks of the insurance and service components highly interrelated?

AND

b) Is there a significant service of integrating the insurance and service components?



Contract Boundaries



Within the boundary

The policyholder is obliged to pay the premium



Substantive obligation

An insurer needs to provide coverage or other services to policyholders

Contract Boundary

(beginning)

The earliest of :

- the beginning of coverage; or
- the date on which first premium is due,
- date when facts and circumstances indicate that a contract can be onerous

Insurer has the right or practical ability to reassess the risks of the particular policyholder and, as a result, can set a price or level of benefits to fully reflect the risks.

Insurer has the right or practical ability to reassess the risks for the portfolio of insurance contracts that contain the contract and set a price or level of benefits to fully reflect the risks of that portfolio, and;

Pricing for coverage up to the date that the risks are reassessed does not take into account the risks that relate to future periods.

Contract Boundary

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(end)

Part 2: Measurement methodology

Measurement Methodology Overview of methods

Basic methods

Overview





Basing method applied to all products both life non-life insurance.

Possible one exemption – PAA and two modifications:

- VFA (obligatory)
- Modified BBA (optional)



VARIABLE FEE APPROACH (VFA)

Applied in life insurance

Permissible only in products satisfying specific rules (products with clearly defined profit sharing and "UL" contracts

Close to "BBA" enables several modifications



PREMIUM ALLOCATION APPROACH (PAA)

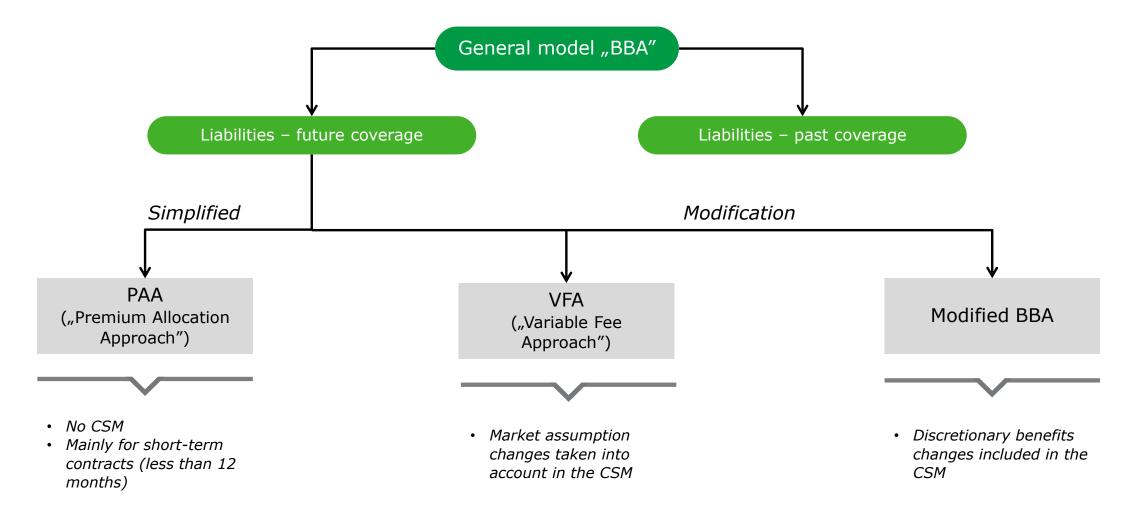
Method for short-term contracts, applied mainly in non-life insurance

Permissible only for liabilities with future cover

Produkt	BBA	VFA	PAA
Life insurance	•		
Endowment with no profit sharing	•		
Endowment with profit-sharing	•	•	
Unit-linked			
Group products			•
Non-life insurance – future coverage			
Non-life insurance – past coverage	•		

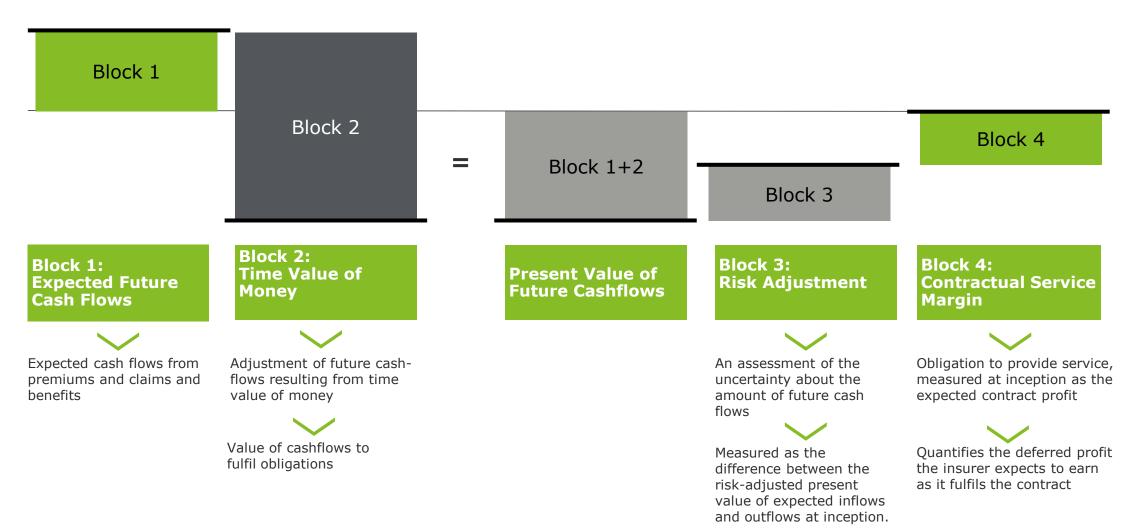
Basic methods

Diagram

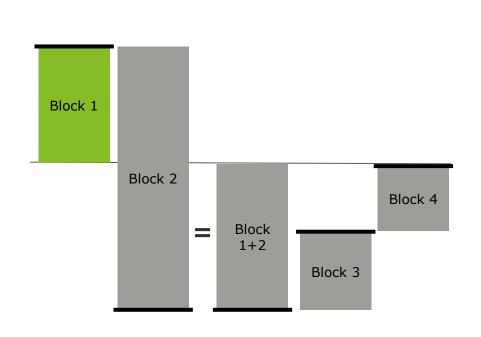


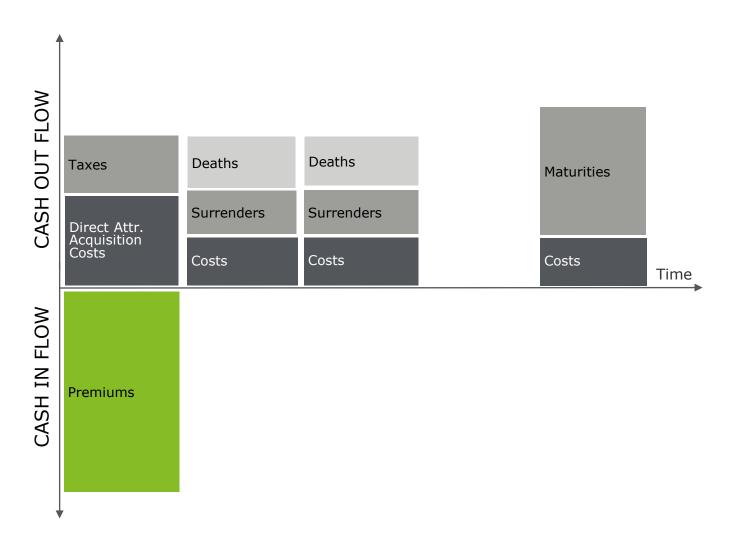
Measurement Methodology General model

Overview measurement at initial recognition

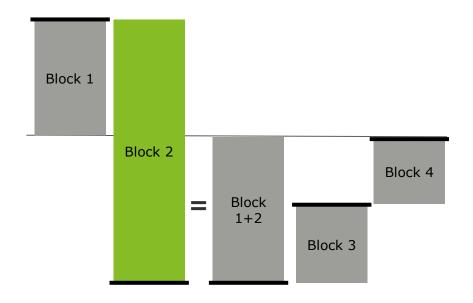


Block 1: Future cash flows





Block 2: Time value of money



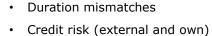
"Top-down"



"Bottom-up"



Reference portfolio rate





- The other factors that are not relevant to the insurance liability
- No need to include other liquidity adjustments

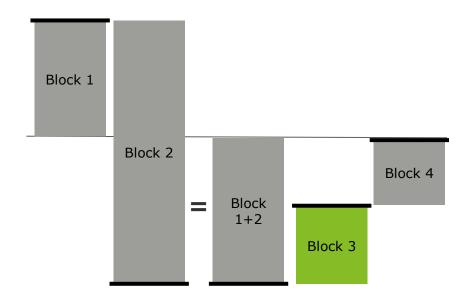
Insurance liability – Discount Rate

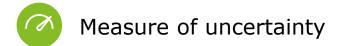
Both approaches should lead to the same outcome



Risk free rate

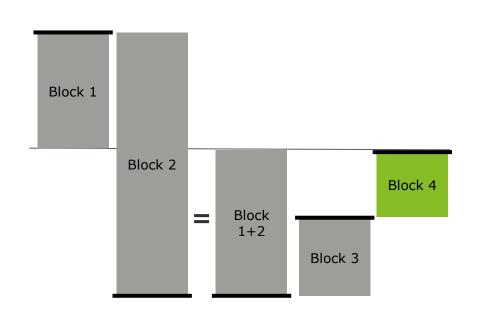
Block 3: Risk adjustment

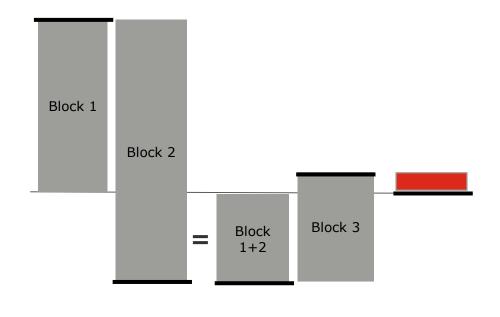




- Principle-based approach
- Specific for each insurer
- Diversified
- Comprehensive

Block 4: CSM

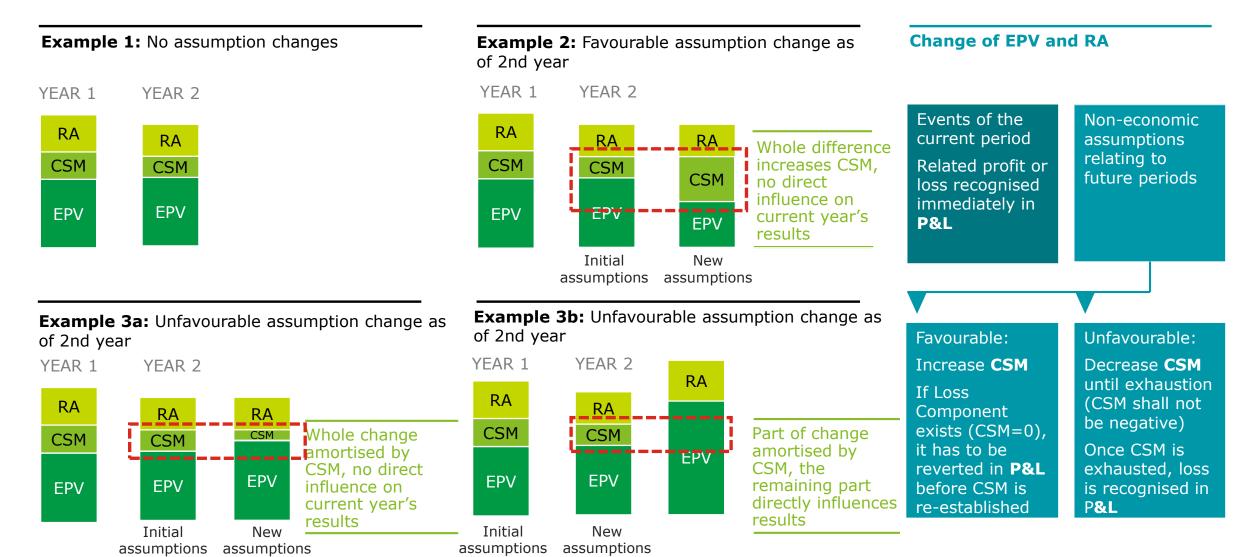




Block 1 + Block 2 + Block 3 < 0 Recognise Contractual Service Margin Block 1 + Block 2 + Block 3 > 0 Recognise Day One Loss (Onerous Contract)

General Model of IFRS 17 liabilities measurement

Building Block Approach: assumption changes may affect profit



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Building Block Approach Summary of changes in estimates

	CSM	OCI	P&L
Lapse/Surrender	•		
Mortality	•		
Morbidity and recovery	•		
Directly attributable maintenance and acquisition expenses	•		
Expense inflation	•		
Risk Adjustment	•		•
Discount rate		•	•
Expected credit losses on RI assets			•
Salvage and subrogation			•
IBNR			•
Other assumptions in respect of past coverage			•

Measurement Methodology Variable Fee Approach

Variable Fee Approach

Contract classification

Insurance contracts, investment contracts with discretionary participation features (DPF) and reinsurance contracts Contract with participation features related Other contracts to underlying items Indirect Direct participating Non-participating participating contracts contracts contracts Long-term **BBA BBA VFA** with modifications Short-term PAA

Direct participating

Contract with participation features related to underlying items, for which the specific participation features prescribed by IFRS 17 are met

Indirect participating

Contract with participation features related to underlying items, for which the specific participation features prescribed by IFRS 17 are not met

Nonparticipating

Contract where the fulfillment cash-flows do not depend on the underlying items.

Variable Fee Approach ("VFA") Conditions for eligibility

Variable Fee Approach ("VFA") is applied for contracts with direct participation feature.

Above contracts meet the following conditions:

- i. the contractual terms specify that the policyholder participates in a share of a clearly identified pool of underlying items
- ii. the entity expects to pay to the policyholder an amount equal to a substantial share of the fair value returns on the underlying items; and
- iii.the entity expects a substantial proportion of any change in the amounts to be paid to the policyholder to vary with the change in fair value of the underlying items.

VFA is not applicable to reinsurance contracts.

Eg.

- 1. Unit Linked product: 100% of fund return in
- 2. 90% policyholder fund's surplus

Eq.

- Unit Linked product: Death benefit = Max(Fund Value, Sum Assured)
- 2. Reversionary Bonus, Terminal Bonus

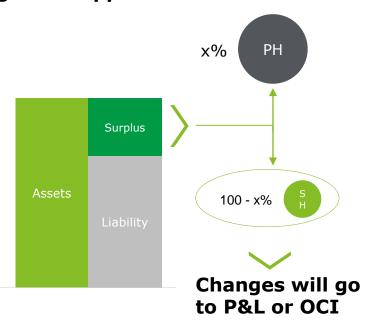
Examples: endowment insurance with profit sharing based on yield rate, endowment insurance with profit sharing based on biometric variables, unit-linked

Variable Fee Approach

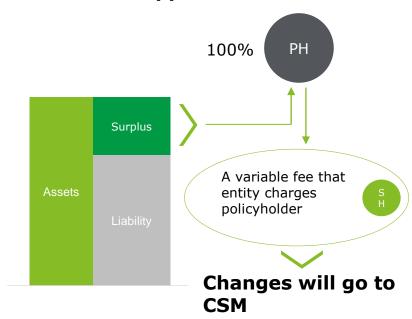
Different underlying model

In variable fee approach, the returns to the entity arising from participating contract is viewed as part of the compensation that the entity charges the policyholder for service provided by the insurance contract, rather than as a share of returns from a standalone investment.

Building Block Approach



Variable Fee Approach



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Acronym Key

PH	Policyholder	SH	Insurer
	,		

Measurement Methodology Premium Allocation Approach

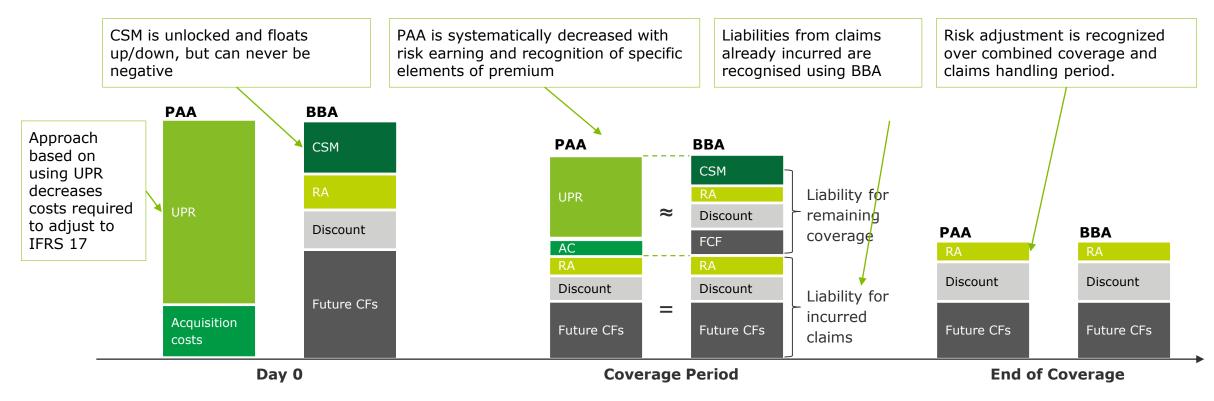
Premium Allocation Approach

Decision tree



Premium Allocation Approach

General rules



Acronym Key

AC	Acquisition costs
FCFs	Future cash flows
CSM	Contractual service margin
RA	Risk Adjustment
UPR	Unearned premium reserve

As BBA approach has to be applied to incurred claims, using both approaches might ultimately still be expensive for a company. Therefore the decision to apply PPA has to be analysed in detail.

If the contract is onerous ("onerous contract"), the UPR and acquisition costs estimate will have to be increased by the amount required to fulfil the obligation. This estimate will have to be done based on BBA.

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General Model of IFRS 17 liabilities measurement

Alternative valuation models – example of products







Building Block Approach



Variable Fee Approach

- Non-life insurance (coverage period)
- Short-term life and certain group contracts
- Non-life insurance (incurred claims)
- Long-term life protection contracts
- Long-term endowments with no profit-sharing
- Annuities with no profit-sharing

- Unit-linked contracts
- Long-term endowments with specific profit-sharing regulations

Part 3: Other considerations

Other considerations Unit of Account

Aggregation levels for calculations in IFRS 17 Unit of account



Expected future cashflows

Could be measured at the level of **portfolio of contracts**



Risk adjustment

Measured at the level enabling to include all **expected diversification effects**



Aggregation level should not impact the level of present value of expected future cashflows measured at the individual policy level

...but...

some calculations on individual level may be impracticable or impossible



CSM the point of contract recognition

It is permissible to group contracts of similar profitability, which will respond in similar ways to key drivers of risk





CSM at subsequent periods

The level to be consistent with initial recognition guaranteeing that at the end policy term, CSM is fully recognised

Aggregation levels for calculations in IFRS 17 Unit of account

PORTFOLIO

Insurance contracts subject to similar risks and managed together

e.g. a product within a company

GROUP

Set of insurance contracts resulting from the division of a portfolio of insurance contracts into, at a minimum, contracts written within a period of no longer than one year that and split by profitability at initial recognition

Sales year X

Group of contracts with no significant possibility of becoming onerous

Other policies

Sales year X + 1

Group of contracts with no significant possibility of becoming onerous

Other policies

Onerous group

Sales year X + 2

Group of contracts with no significant possibility of becoming onerous

Other policies

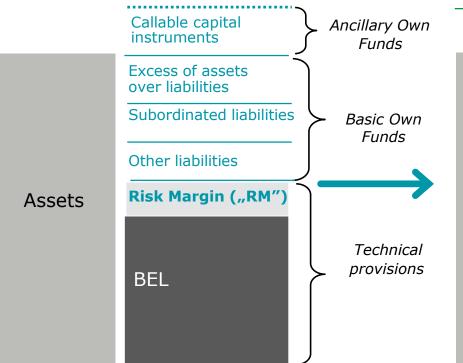
Other considerations

New format of financial statement and other disclosures

Solvency II and IFRS 17

Solvency II

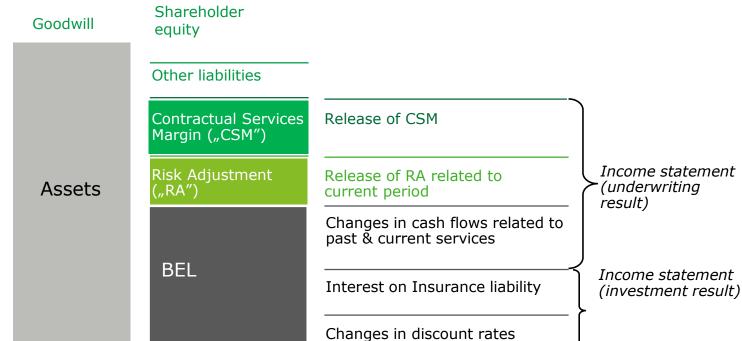
Typical balance sheet



IFRS17

Typical balance sheet

Income statement



POTENTIAL FINANCIAL IMPACTS

- No "first-day profit" thanks to its deferral through CSM
- · Much smoother profile

POTENTIAL BUSINESS IMPACTS

- Significant volumes of data to be stored
- Actuarial assumptions changes directly affecting profit profile
- Actuarial valuation models to be integrated with accounting systems
- Level of granularity for required disclosures

New Presentation and Disclosure

Statement of Comprehensive Income

Operating Result	(WU) = (a) - (f)
Insurance Contracts Revenue	(a) = (b) + (c) + (d) + (e)
Change in CSM	(b)
Change in Risk Adjustment	(c)
Amortisation of acquisition costs	(d)
Expected claims and expenses	(e)
Insurance expenses	(f) = (g) + (h) + (i) + (j)
Incurred expenses and paid claims	(g)
Incurred acquisition costs	(h)
Recognised losses from onerous contracts	(i)
Changes in insurance liabilities	(j)
Investment Result	(WI) = (k) - (l)
Investment income	(k)
Investment expenses	(I) = (m) + (n) + (o)
Accretion of CSM	(m)
Accretion of RA	(n)
Accretion of insurance liabilities	(0)
Total Income	(WU) + (WI)

Release of part of CSM allocated to current period

Release of part of RA related to risk expired in the current period

Expected claims and expenses in the current period

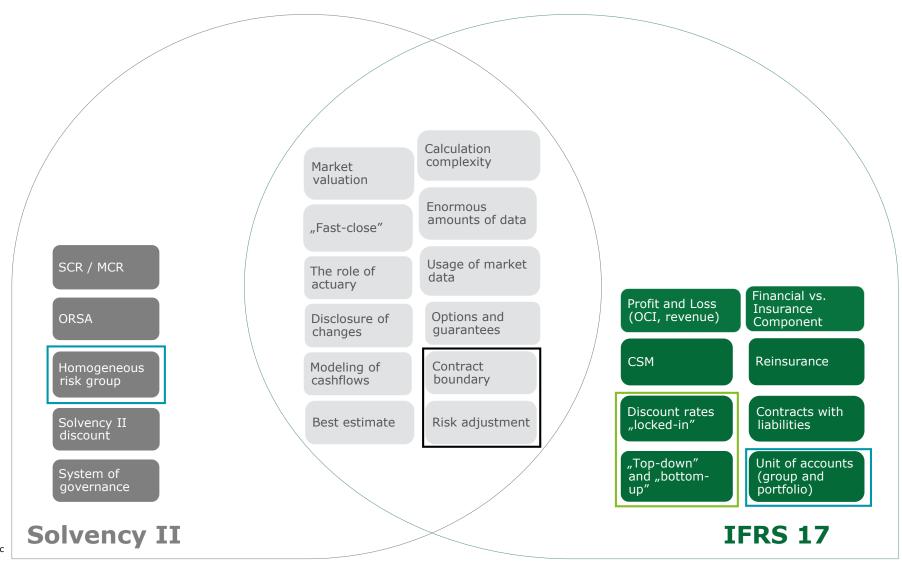
Actual incurred claims and expenses in the current period

Loss for "onerous contracts"

In case of changes in liabilities for expired cover or in case when CSM cannot absorb negative deviations

Cost related to the unwind of the discount rate in valuation of liabilities

Solvency II vs. IFRS 17 Synergies and differences

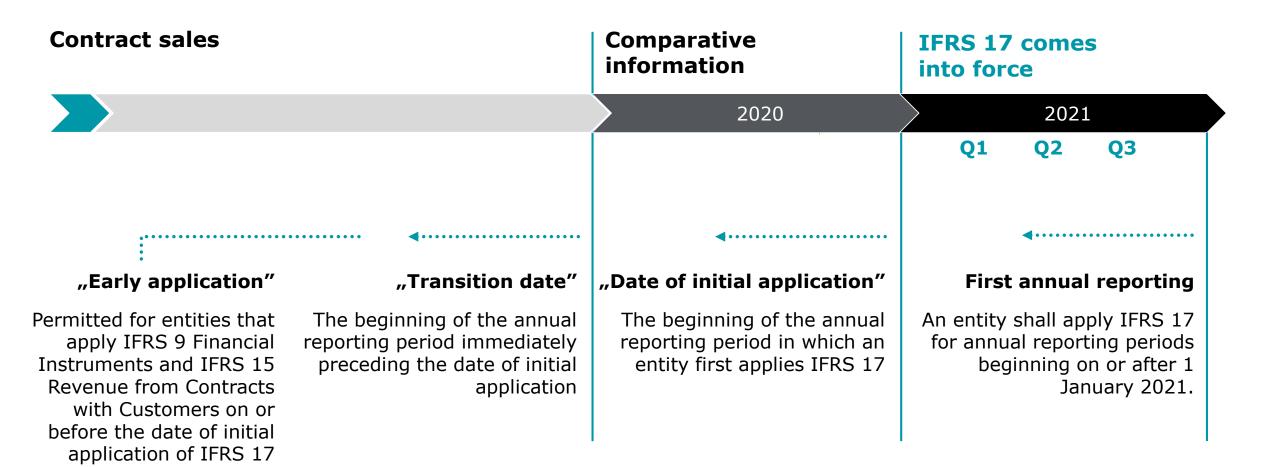


Part 4: Transition

Introduction to Transition

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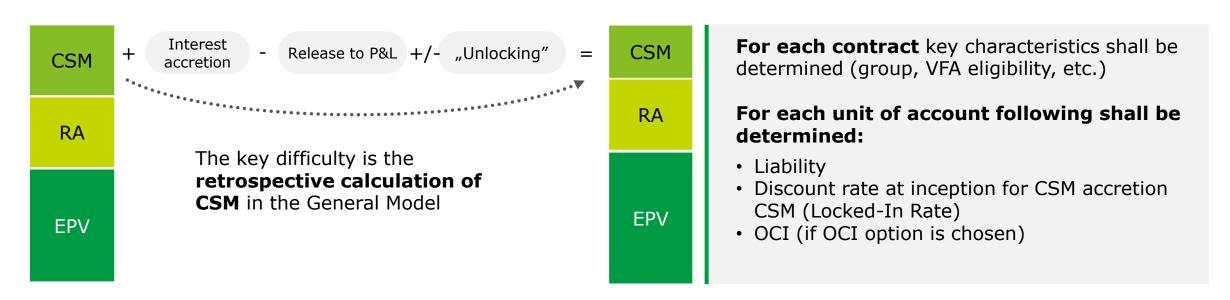
Introduction Important dates



Introduction

Valuation on the Transition date





Principle: identify, recognise and measure each group of insurance contracts as if IFRS 17 had always applied

Introduction

Basic definitions

Three possible approaches to be applied:

The **retrospective approach** should be applied to groups of insurance contracts, unless **it is impracticable** or if groups at inception of contracts in force on transition cannot be identified.

When **impracticable** to apply the retrospective approach, an entity is then permitted to choose between the **modified retrospective approach** and the **fair value approach**.

Key definitions in transition



IFRS 13: **Fair value** is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. (IFRS 13.A)



IAS 8: Applying a requirement **is impracticable** when the entity cannot apply it after making every reasonable effort to do so. (IAS 8.5).

Overview of Methods

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Method 1: Full retrospective approach

Basic assumptions

To apply IFRS 17 retrospectively, an entity shall at the transition date:

01. 02. 03.



identify, recognise and measure each group of insurance contracts as if IFRS 17 had always applied;

derecognise any existing balances that would not exist had IFRS 17 always applied; and

recognise any resulting net difference in equity.

Method 2: Modified retrospective approach Basic assumptions

The objective of the modified retrospective approach is to achieve the closest outcome to the retrospective application possible.

An entity shall:

- A. use reasonable and supportable information;
- B. maximise the use of information that would have been used to apply a fully retrospective approach, but need only information available without undue cost or effort.

Permitted modifications to the retrospective method:

02. 03. 01. 04. amounts related to amounts related to assessments of insurance the contractual insurance the contractual finance income contracts or service margin or service margin or or expenses loss component for loss component for groups of insurance insurance insurance contracts that contracts without contracts with would have been direct participation direct participation made at the date features features of inception or initial recognition

An entity is permitted to use each modification only to the extent that an entity does not **have reasonable and supportable** information to apply a retrospective approach.

Method 3: Fair value approach

Basic assumptions



The CSM or loss component is difference between:

- the fair value of a group of insurance contracts at that date; and
- the fulfilment cash flows measured at that date



To determine:

- how to identify groups of insurance contracts
- whether a contract meets the definition of a contract with direct participation features
- how to identify discretionary cash flows for contracts that do not meet upper definition

An entity may determine the matters based on data on:

- inception,
- transition.

An entity may include in a group contracts issued more than one year apart.

Comparison of methods available

Basic assumptions





In most cases gives highest level of



Modified retrospective approach:



Relatively high freedom in choosing approach



Fair value approach:

Simplest method

Historical data not required

Pros

CSM to allocate/spread in future years
Additional future reconciliation and
disclosures not required after transition
Comparable with new cohorts
Not required proof of lack of
impracticability

Cons

Big amount of data required

May be more complex computationally

Needs proof that fully retrospective method is impracticable

Requires future disclosures

Less comparable with new cohorts

Needs proof that fully retrospective method is impracticable

Requires future disclosures

Incomparable with new cohorts

Challenges connected with Fair Value for insurance liabilities

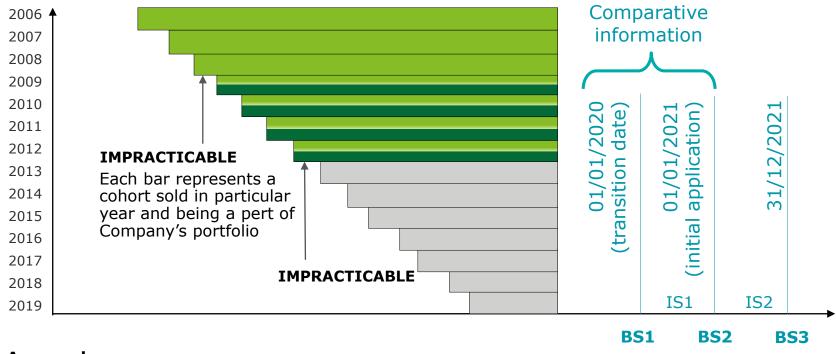
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Lack of/low CSM to allocate?

Introduction

Basic principles (1/2)

Sales cohort for a portfolio



Full retrospective application of the new requirements is required, unless this is impracticable.

Where impracticable, the Company can either apply:

 the simplified approach, and fair value approach from next impracticability point onwards, or

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the fair value approach.

Approach:

Fully retrospective

Modified retrospective

Fair value

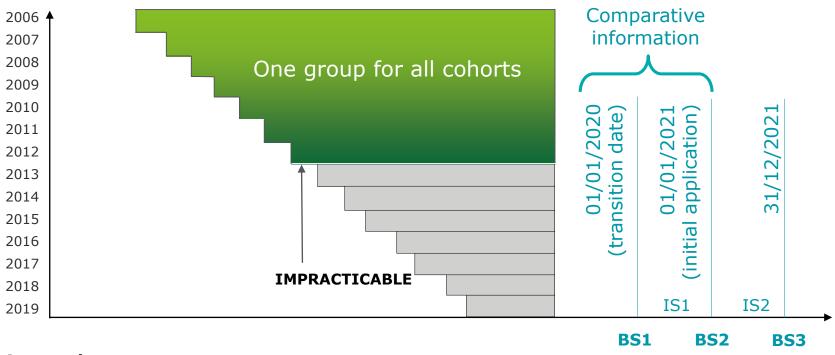
BS = Balance Sheet

IS = Income Statement

Introduction

Basic principles (2/2)

Sales cohort for a portfolio



Grouping by sales periods may not always be possible (e.g. IT system limitations, loss of data).

Such situation may prevent from setting CSM amortisation factor and discount rate curves "locked-in".

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For such documented cases, simplification is permissible

Approach:

Fully retrospective

Modified retrospective

Fair value

BS = Balance Sheet

IS = Income Statement

Part 4: Examples

Example 1: Simple insurance contract accounting

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Simple insurance contract

Contract

Single premium 100,0

• Duration: 3 years

Acquisition costs: 4,0

Expected outflows

• 1. year: 10,0

• 2. year: 23,0

• 3. year: 50,0

Risk adjustment

• 1. year: 5,0

• 2. year : 6,0

• 3. year: 7,0

Discounting

Building Block Approach Insurance Liability

PV of cash inflows:	
Single Premium	-100,0
PV of cash outflows	
Acquisition costs	4,0
Expected outflows	83,0
Discounting	-7,7
Total	79,3
Risk adjustment	
Risk adjustment for 3 years	18,0
Discounting	-1,4
Total	16,6
Contractual service margin	4,1
Insurance liability at inception	0,0

a) Comprehensive income at contract inception

Assets	Liabilities	Expenses	Revenue
	Profit 0,0		
	OCI 0,0		
	Capital 0,0		
	Insurance Liability		
	a) PV CF inflows -100,0		
	a) PV CF outflows 79,3		
	a) Risk adjustment 16,6		
	a) <u>CSM</u> 4,1		
	a) <u>CSM</u> 4,1 Total 0,0		
	·		

b) Premium received and commission payed out

Assets			Liabilities	Expenses	Revenue
		Profit	0,0	<u> </u>	
Cash		OCI	0,0		
b) Premium	100,0	Capital	0,0		
b) Commission	-4,0				
Cash	96,0	Insurance liability			
		a) PV CF inflows	-100,0		
		a) PV CF outflows	79,3		
		b) Prem. Payment	100,0		
		b) <u>Comm. Paymen</u>	t -4,0		
		EPV CF	75,3		
		a) Risk adjustment	16,6		
		a) CSM	4,1		
		Insurance liabi	lity 96,0		

c)-h) After 1st year (actual = expected)

Assets			Liabilities	Expens	ses				Revenue
		Profit	2,5				In	surance Revenue	2
Cash		OCI	0,0	c) Clai	ms	10,0	c)	Claims	10,0
b) Premium	100,0	Capital	2,5	f) Inte	rest	3,9	d)	RA Release	5,0
b) Commission	-4,0						e)	CSM Release	1,4
g) Claims	-10,0	Insurance liability	У						
Cash	86,0		-100,0	Tot	al	13,9		Total	16,4
		a) PV CF outflows	79,3						
		b) Prem. Payment	100,0						
		b) Comm. Payment	-4,0						
		g) Discount unwind	3,0						
		h) Claims	-10,0						
		EPV CF	68,3						
			•						
		a) Risk adjustment Bo	oP 16,6						
		d) RA release	-5,0						
		g) Discount unwind	0,7						
		Risk adjustment	12,3			c) Claims –	CO	ctc	
		_							
		a) CSM BoP	4,1			d) Release c)f	Risk Adjust	ment
		d) CSM release	-1,4			e) Release o	٠ f	CSM	
		g) Discount unwind	0,2			- -			
		CSM	2,9			f) Interest a	ac	creted	
			•			g) Claims pa	aVI	ment (inclu	ding anv
		Insurance Liabilit	ty 83,5			- ·	- y		aning any
			-			fund)			

Example 2: Where did my premiums disappear

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Illustrative example - introduction

Term insurance product

Annual premium 100

Death benefit 1000

No risk adjustment & no discount assumed for simplicity

Projected number of policies at inception

Year	1	2	3	4	5	6	7	8	9	10
# of policies	10	10	10	10	10	5	5	5	5	5
# of deaths	0	0	0	0	0	0	0	0	0	0
# of surrenders	0	0	0	0	5	0	0	0	0	0
# of maturities	0	0	0	0	0	0	0	0	0	5

Projected CFs at inception

Year	1	2	3	4	5	6	7	8	9	10
Premium	1000	1000	1000	1000	500	500	500	500	500	500
Claims	0	0	0	0	0	0	0	0	0	0

=> Fulfillment CFs = -7000 (block 1, 2, 3)

=> CSM = 7000 (block 4)

Illustrative example – Actual = Expected Actual number of policies

Year	1	2	3	4	5	6	7	8	9	10
# of policies	10	10	10	10	10	5	5	5	5	5
# of deaths	0	0	0	0	0	0	0	0	0	0
# of surrenders	0	0	0	0	5	0	0	0	0	0
# of maturities	0	0	0	0	0	0	0	0	0	5

Actual CFs

Year	1	2	3	4	5	6	7	8	9	10
Premium	1000	1000	1000	1000	500	500	500	500	500	500
Claims	0	0	0	0	0	0	0	0	0	0

Illustrative P&L

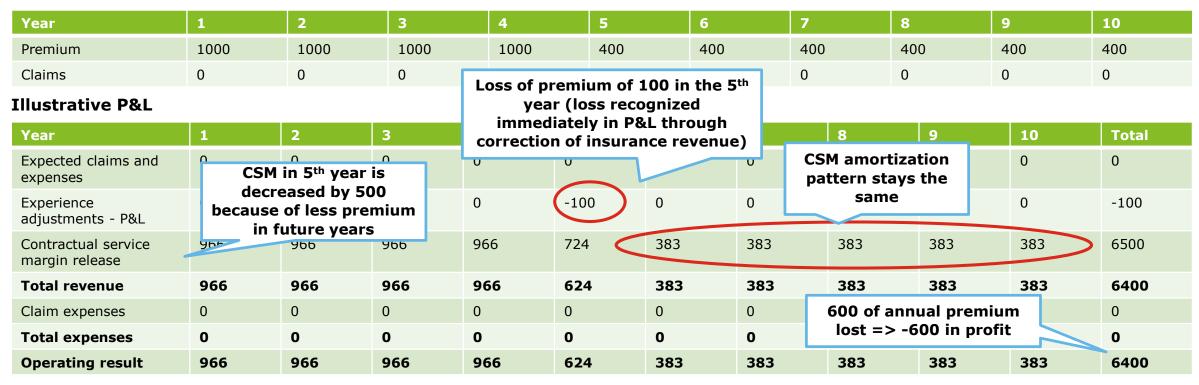
Year	1	2	3	4	5	6	7	8	9	10	Total
Expected claims and expenses	0	0	0	0	0	0	0	0	0	0	0
Experience adjustments - P&L	0	0	0	0	0	0	0	0	0	0	0
Contractual service margin release	966	966	966	966	724	483	483	483	483	483	7000
Total revenue	966	966	966	966	724	483	483	483	483	483	7000
Claim expenses	0	0	0	0	0	0	0	0	0	0	0
Total expenses	0	0	0	0	0	0	0	0	0	0	0
Operating result	966	966	966	966	724	483	483	483	483	483	7000

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Illustrative example – More surrenders Actual number of policies

Year	1	2	3	4	5	6	7	8	9	10
# of policies	10	10	10	10	10	4	4	4	4	4
# of deaths	0	0	0	0	0	0	0	0	0	0
# of surrenders	0	0	0	0	6	0	0	0	0	0
# of maturities	0	0	0	0	0	0	0	0	0	4

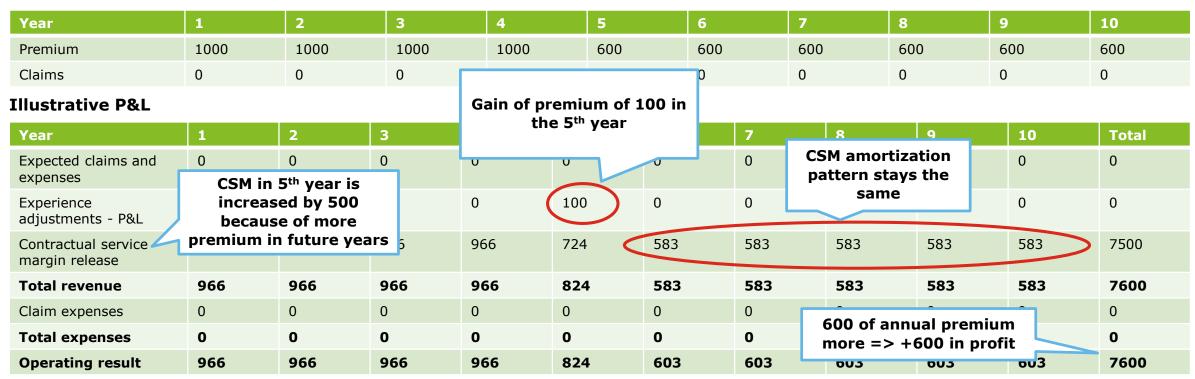
Actual CFs



Illustrative example – Less surrenders Actual number of policies

Year	1	2	3	4	5	6	7	8	9	10
# of policies	10	10	10	10	10	6	6	6	6	6
# of deaths	0	0	0	0	0	0	0	0	0	0
# of surrenders	0	0	0	0	4	0	0	0	0	0
# of maturities	0	0	0	0	0	0	0	0	0	4

Actual CFs



Thank you! Questions?

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