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Agenda

- Brief IFRS 17 update
- Variable fee approach
- Illustrative example


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1. Brief IFRS 17 update

IFRS 17 Insurance Contracts development Key $\operatorname{FFRS} 17$ development milestones


Key implementation milestones ahead (IFRS 17 \& 9)

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Why does this fundamental change in insurance accounting standards matter?

| Current situation <br> - Mx of diflerent local generally accepted <br> accounting pinciples (GAAPs) <br> - Limited comparablily between insurers and inconsistency with other industries <br> - Limited use for steering the business and understanding sources of profit incurrent petiod or expected in fiture periods <br> - Some key metics used to inflom irvestors and stakeholders are based on Iffs (i.e RoE and pay-out ratios) but there is a signiticant use of secondary metrics such as EV metrics such as EV | Forthcoming practice <br> - Consistert adoption accoss geographies <br> - Curent assumpioions tor each reporting <br> period <br> - Impear likely more significant for life <br> insurance products <br> - Exposure apporach to recogntion of profit and reverue - as insurance $\propto \propto$ investment services are provided <br> - Sigriticart changes in disclosurvs <br> - Greater insight into sources a poofit within the ussiness le.g. undorwiting. experses. investment metums) | Key transition steps <br> - Operational consideratiors: <br> - Use clear design principles <br> - Opt for eflicient and costeffective <br> implementation approach <br> - Tradeofl between operational <br> simplicity and optimization <br> - Compliance vs catalyst tor change (Finance \& Risk transtomation) <br> - Accounting decisions: <br> - Policy decision making and implementation of chocices <br> - Corsistently applied across Group <br> - Cormurication challenges: <br> - Implications for extemal messaging <br> - Explain strategic choices |
| :---: | :---: | :---: |
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Enhanced accounting framework


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The critical IFRS 17 components


Transition Resource Group for IFRS 17
TRG meeting on 2 May 2018
The filst TRG meeting was hedd intordon on 2 May 2018 tocusing on seven agenda titems.


## 2. Variable fee approach


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VFA eligibility

- What is participating contracts?

Contracts thathave a feature by which the entity shares additional risks and rewads with the policy holder, in
some contracts subject to discretion of the entity
company or an index
These are referred to as 'underlying items'
Disfinction between "direct" and "indreof" narticioating contracts
Example of contracts that typically with participating features:
Unitlinked contracts
Univers alife contracts
Parricipating contracts
With proft contracts

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Direct participating contracts - definition
"Substantially invesment-reladed servicecontracts": Insurancecontracts with directpaticicipationfeatures are insurance
contracts thatares ubstantially investment-relatedservicecortracts unde whichan ertity promises an investmentretirn
The Board viewsthese contracts ascreatingan oblig dion to paypolicyholders anamountequal in vaueto specified
underly ing tiems, minusa vaiable fee forsenvice. That fee is anamuurtecualo the entity issharenfthe fair valueofth

(1) The corriactual remme specify that the policythodider participates in a share of a cleaty


Participating contads whichdo nats atistyall 3 citeria are referredto as indrectpaticipating
contracts $->$ measured under GM


Direct participating contracts - definition


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Direct participating contracts - definition

## 

There is no clearly identified pool of underlying items when:
Eniliy can change the Ul with retrospecive effect; OR
Noul idenififed even the retum is based on enily's overall performance and expectation, ox the perfomance and expectations of a
suluset of assels the enily hodds (An example of such a areum is a croditing rate or dividend payment set at the end ot tre period to

which itrelales. In this case, the obigation
doses not rellect identified undextying liems)
Don't preclude entity's discretion, however the link to the underlying items must be
enforceable

e. \% of paricicpation is a ange, "minimum of $70 \%$ of melums".

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Direct participating contracts - definition



```
    Substantial
```



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        Where the enity is compersaled by a tee that is delemmined by relerence to undotying items
```



```
        Within this 'ange', products would be asses based on their specific features and cirumstancess (e.g, fee stuccures, pooft sharin
    Variability
    To be assessed over the duration of the group of confracts, and on a present value probabillywwelghted average basis
        Norexample, a guaramee of minimum revum [B108] (1)
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Direct participating contracts - definition
Contract specifies a determinable fee
For this to be the case, the contractneeds to spediy that the policyhdderpa tici ipates in ashareof a clealy iderified
pool ofunderlyingitems. Withouta determinabe fee, which canbe expessedas a percertageof portiolio reuurrs or
 amount being eavivalento a fee (BC $245(\mathrm{a})]$

Not for reinsurance issued or held
Reinsuranoe cortracts issued and reinsurancecontrads held cannotbein suranoecortracts with drectparticipation
features tor the purposes of |FRS 17 (B109).
Assess the variability over the duration, and on a PV probability-weighted average basis, not a best or worst outcome basis:
 paragraphs B37-B38) [B107(b)]
Example on a guraratee of a minimum retum [B1©B]

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Direct participating contracts - measurement
[B104] The conditions in paragraph B101 ersure that insuranoe cortracts with direct participation features are contrac
under which the enitiv's ohligation to the policy holder is the netof:
a) the obligation to pay the policy holder an amounteoual to the fair value of the underlying items; and
p) avariable fee (see paragraphs B110-B118) that the entity will deductrom (a) in exchange for the future service
provided by the insurance cortract,comprising: (i) the entitio's share of the fair value ofthe un
(ii) fulfiment cash flows thatdo notvary based on the returns onunderlying items
$\Rightarrow$ Changes in variable fee $\rightarrow$ adjust against CSM and therefore spread over remaining coverage

## Variable fee approach

Changes in the variablefee are notrecognized immediatdy in comprehensive income butincluded in CSM
CSM updated tor current interestrates and releæedon thebasis of passage of time
If the insurerholds indelvim items anduses OC for repatingchanges in maketinterestrates the P 8. interes
charge is equal to the P\& Linvestmentincme on the underlying items
Bisk mitioation:opion to repatchanges in embeddedguaratees in P\&L ifcertain critenia and documentation requirements are met

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Summary key difference between GM and VFA

| Measurement modil | Changes in fulfilment cash flowsdue to the changes in financial variables | Insurance finance incomeor expenses |
| :---: | :---: | :---: |
| GM | All changes in dscountrates andother financial vanables aereported inthe statement of comprehers iveincome(proftar loss; or othercomprehensive income) | The interestexpense onthe corrractua service magn is expliatly acorded using rates at the initial recognitionof the contrads |
| VFA | The contractual servicemargin is adjusted to reflect the changes inthe variablefee, which includes somechanges in disoountraes and other financial vaniables | The interestexpenses are impliatin the changes in the insure's variable fee (its share of the underlying items and other cash flows needed to futili the contracts) |
|  |  |  |

## Concept checking...

- (1) What is a clearly identified pool of underlying items?

The pool of underlying items can comprise any items, for example a reference portfolio of assets, the net assets of the entity, or a specified subset of the net assets of the entity, as long as they are clearly identified by the contract. An entity need not hold the identified pool of underlying items because the meas urement of insurance contracts should not depend on what assets the entity holds. The underlying items do not need to be a portfolio of financial assets. They can comprise items such as the net assets of the entity or a subsidiary within the group that is the reporting entity.

## Concept checking...

(2) What is the definition of "contract" and "contractual terms" when defining the clearly identified pool of assets?

A contractis an agreementbetween two or more paties thatcreatesenforcemble rights and obligations. implied by an entity's customary business practices. Contradual terms includeall terms in a contract, explicit implied. Implied terms in a contractinclude those imposed by law orregulation.
There are certain features which maynots atisty VFAcriterial:(i) differentporftolios of participating contracts (director indirect) share the same fund with a notionally separated as sets in the entit's general account, and
(ii) the segregation of assets are only managed internallyw withoutenforceability or proper disclosure to the policy yolders. While "ring fenced-asse" may better meet this criterion, there are also discussions if the
"accounting designation"or "entity's govemance framework anddisclosure" meethis criterion. Advocates
argue thatcommercial communic ation, i.e,, materials presented or dis dosed to the policy holders, cantorm part of the enforceability and he entity should consider thesefactors for the asses sment of clearly identified pool of change the underlying items with retrospectiveeffects.

Concept checking...
(3) Does "a share of a clearly identified pool of underlying items" preclude the entity's discretion to vary the amounts paid to the policyholder?

- No, but the link to the underlying items must be enforceable. $\qquad$
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## Concept checking...

- (4) How to interpret the word "substantial" in VFA criteria II and III?

The IASB does not provide a concrete definition for the term "substantial" as noted in the VFA criteria II and III. This is to allow entities to apply IFRS 17 for their particular circumstances without being limited by any quantitative rules. Marke consensus may be formed with potential help from TRG discussion. However, a range of sharing percentages may still be expected from various jurisdictions due to different product offerings, and comparability with the fee structures of the investment products offered. An individual entity needs to perform its own assessment, and verify its conclusion with its respective auditor.

Concept checking...

- (5) What is the "variable fee"?
- A variable fee that the entity will deduct in exchange for the future service provided by the insurance contract, comprises: (i) the entity's share of the fair value of the underlying items; less (ii) fulfilment cash flows that do not vary based on the retums on underlying items. Contracts eligible for VFA should specify a determinable fee which can be expressed as a percentage of portfolio returns or asset values rather than only as a monetary amount. Without a determinable fee, the share of returns on the underlying items the entity retains would be entirely at the discretion of the entity, and this would not be consistent with that amount being equivalent to a fee

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## Concept checking...

- (6) Can the VFA be applied to reinsurance contract?

No. Reinsurance contracts issued and reinsurance contracts held cannot be insurance contracts with direct participation features for the purposes of IFRS 17 [B109]. Hence, the VFA cannot be applied

## Concept checking..

- (7) When should the VFA eligibility assessment be conducted?

In general, the assessment should be conducted at inception only. An entity shall assess whether the conditions in paragraph B101 are met using its expectations at inception of the contract and shall not reassess the conditions afterwards, unless the contract is modified, applying paragraph 72 [B102]. The variability over the duration should be assessed, and on a PV probability-weighted average basis, not a best or worst outcome basis $[\mathrm{B} 107$ (b)(ii)].

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oncept checking..
(8) Is there an option not to apply the VFA?

The IASB provides the general accounting model, and two modifications as known as the VFA and the premium allocation approach (PAA) for different types of contracts. While applying the PAA is an optional simplification when certain criteria are met for the short term contracts, applying the VFA is not an option nor
accounting choice. The entity should apply the VFA if the VFA eligibility
assessment is passed

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3. Illustrative example

Given: product features

- A simple 5 -year investment-linked product is created to illustrate the CSM differences between VFA and GM:
- Death benefit (sum assured) = fixed $500+$ account value (AV)
- Maturity benefit = AV
- Level annual premium =500
$-2 \%$ asset management charge (AMC)
- Cost of insurance charge (COI charge)
- 100 identical policies issued

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Given: cash flow projection

| Projected best estimate cash flows (BECFs) for 100 policies at inception |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BE projectionYear | Yr1 | Yr2 | Yr3 | Yr4 | Yr5 | Yr6 |
| No. sumiva(BOY) | 100 | 99 | 97 | 94 | 90 | 85 |
| No. deanss(EOY) | 1 | 2 | 3 | 4 | 5 |  |
| No. sunviva(EOY) | 99 | 97 | 94 | 90 | 85 |  |
| Premiumbor) | 50,000 | 49,500 | 48,500 | 47,000 | 45,000 | . |
| Cormission(BOY) | 5,000 | 2,475 | 970 |  | - | - |
| Expense(BOY) | 200 | 198 | 194 | 188 | 180 | - |
| Deah oungo(EOY) | 1,000 | 3,030 | 6,186 | 10,638 | 16,667 |  |
| Sunival ougqo(BOY) | - | - | - | - | - | 240,833 |
| Net CF | 43,800 | 43,797 | 41,150 | 36,174 | 28,153 | (240,833) |
|  |  |  |  |  |  |  |

Given: account value roll forw ard

| Projected best estimate cash flows (BECFs) for 100 policies at inception |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BE projectionYear | $\mathrm{Yr}_{1}$ | Yr2 | $\mathrm{Y}_{\mathrm{r} 3}$ | Yr4 | Yr5 | Yr6 |
| Av(Bor) | - | 49,500 | 98,470 | 146,814 | 194,362 |  |
| Premiumboy) | 50,000 | 49,500 | 48,500 | 47,000 | 45,000 |  |
| COI charge(BOY) | (500) | (1,000) | (1,500) | (2000) | (2500) |  |
| Investment income(EOY) | 1,490 | 4,460 | 8,940 | 15,022 | 22,876 |  |
| AMC(EOY) | (990) | (1,960) | (2.909) | (3.836) | (4,737) |  |
| Death oungo from AV (EOY) | (500) | (2030) | (4,688) | (88.63) | (14,167) |  |
| AVEOY) | 49,500 | 98,470 | 146.814 | 194,362 | 240.833 |  |


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Step 1: define the CFs for FCF calculation

| Step (1): CFs for FCF calculation |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Incepilion | Yr1 | Y 2 | Yr3 | Yr4 | Y 5 |
| Premium | 50,000 | 49,500 | 48,500 | 47,000 | 45,000 |  |
| Commission \& Expense | (5.200) | (2673) | (1,164) | (188) | (180) |  |
| Surival ougo | - | - | - | - | - | (240,833) |
| Deahhins comporemt) | - | (500) | (1,000) | (1,500) | (2000) | (2.500) |
| Deahhinv componern) | - | (500) | (2030) | (4,686) | (8.68) | (14,167) |
| Net CFF(NCF) | 44,800 | 45,827 | 44,306 | 40.626 | 34,182 | (257,50 |


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Step 2: initial measurement and initial CSM

| Step (2): FCF calculation |  |
| :--- | ---: |
|  |  |
| BEL | Incepion |
| RA | (3,200) |


| RA |  |
| :--- | :--- |
| FCF |  |
| (3.200) |  |


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Step 3: define the coverage unit

| Step (3): Coverage unit |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Incepion | Yr1 | Yr2 | Yr3 | Yr4 | Yr5 |
| NOP |  | 100 | 99 | 97 | 94 |  |
| SA |  | 1,000.0 | 1.515.2 | 2.061 .9 | 2.659 .6 | 9,333.3 |
| Coverage unit |  | 100,000 | 150,000 | 200,000 | 250,000 | 500,000 |

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Step 4: CSM roll-forw ard under GM

| Step (4): CSM under GM |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Incepion | Yr1 | Yr2 | Yr3 | Yr4 | Yr5 |
| csmbor) |  | 3,200 | 2.913 | 2.472 | 1.858 | 1,047 |
| Interest accretion |  | 96 | ${ }^{133}$ | 152 | 146 | 101 |
| Amorization |  | (383) | (574) | (765) | (957) | ${ }^{(1,148)}$ |
| Csmeor) |  | 2.913 | 2.472 | ${ }^{1,558}$ | ${ }^{1,047}$ |  |

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Step 5a: define the entity's share of the UI

## Step (5): Entity's share of the tar value of the underying hems (ES of U)




Step 5b: define the FCF that do not vary with Ul


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Step 6: CSM roll-forw ard under VFA


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Q\&A

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$\qquad$ Questions

Expressions of individual views by members of the Institute and Faculty of Actuaries and its staff are encouraged.
The views expressed in this presentation are those of the presenter.解期
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