# IFRS17. Analysis of movements and experience variance in Life Insurance 

Luca Bianchi

# Analisi dei movimenti ed experience variance IFRS17 nelle assicurazioni sulla vita <br> Luca Bianchi 

The author chooses to present only results with few comments to facilitate discussion

Example
Transition date 1.1.2022


| Entity |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial assets backing technical provisions | transition |  | Amounts are in thousands $€$ |  | transition |  |  |
| NON-Linked, classified at OCI | IFRS17 \& IFRS9 | Q4 2022 | Q2 2023 | Unit Linked (classified at P\&L) | IFRS17 \& IFRS9 | Q4 2022 | Q2 2023 |
| Recyclable OCI - government bonds | 3.718 .216 | 3.366 .869 | 3.278 .689 | FV through P\&L - government bonds | 42.990 | 38.783 | 40.678 |
| historical cost \& accrued interest | 3.718 .216 | 4.399 .413 | 4.197.051 | FV through P\&L - unsubordinated corporate bonds | 9.616 | 7.802 | 7.692 |
| fair value adjustments | 4.042 | 1.024 .566 | 911.632 | FV through P\&L - subordinated corporate bonds | 1.240 | 1.270 | 1.193 |
| impairment | 4.042 | 7.978 | 6.729 | FV through P\&L - equities | 38.572 | 33.340 | 37.067 |
| Recyclable OCI - unsurbordinated corporate bonds | 1.194 .110 | 1.116 .758 | 1.041.067 | FV through P\&L - mutual funds | 1.948 .340 | 1.970 .420 | 2.037.328 |
| historical cost \& accrued interest | 1.194.110 | 1.345 .683 | 1.259 .176 | FV through P\&L - other funds | 7 |  | - |
| fair value adjustments | 13.839 | 223.335 | 212.507 | Tot financial assets at fair value through P\&L | 2.040.764 | 2.051 .615 | 2.123 .957 |
| impairment | 13.839 | 5.590 | 5.603 |  |  |  |  |
| Recyclable OCI - surbordinated corporate bonds | 151.278 | 146.398 | 144.439 |  |  |  |  |
| historical cost \& accrued interest | 151.278 | 166.233 | 164.224 |  |  |  |  |
| fair value adjustments | 374 | 19.169 | 19.273 |  |  |  |  |
| impairment | 374 | 666 | 512 |  |  |  |  |
| TOT financial assets at FV through recyclable OCI | 5.063.604 | 4.630 .024 | 4.464.195 |  |  |  |  |
| TOT financial assets at FV through non-recyclable OCI | - |  |  |  |  |  |  |
| TOT financial assets at FV through OCI <br> NON-Linked, classified at P\&L | 5.063.604 | 4.630 .024 | 4.464.195 | TOT financial assets at FV through OCI | 0 |  |  |
| Fair Value through P\&L - government bonds | 3.084 | 2.595 | 2.513 |  |  |  |  |
| Fair Value through P\&L - unsubordinated corporate bonds | 252.416 | 268.668 | 262.008 |  |  |  |  |
| Fair Value through P\&L - subordinated corporate bonds | 1.432 .132 | 1.114.969 | 1.092.240 |  |  |  |  |
| Fair Value through P\&L - mutual funds | 898.240 | 879.601 | 856.174 |  |  |  |  |
| Fair Value through P\&L - Debt instruments | 2.585 .871 | 2.265 .833 | 2.212.936 |  |  |  |  |
| Fair Value through P\&L - equities | 80.451 | 82.918 | 42.981 |  |  |  |  |
|  |  |  |  | Tot financial assets at fair value through |  |  |  |
| TOT Fair Value through P\&L - non linked | 2.666.322 | 2.348 .751 | 2.255 .917 | P\&L | 4.707.086 | 4.400.367 | 4.379 .874 |
| Derivative financial - swaps | 8.295 | 23.301 | 11.715 |  |  |  |  |
| Tot investments backing technical provisions (D+E+F) | 9.778 .985 | 9.053 .692 | 8.855.784 |  |  |  |  |

Balance sheet - Assets (3/3)

| Entity |  | transition |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Other assets | IFRS4 \& IAS39 | IFRS17 \& IFRS9 | Q4 2022 | Q2 2023 |  |
| Insurance receivable | 5.420 | - |  |  | Insurance receivable |
| Reinsurance recoverable | 29.620 | 29.818 | 12.919 | 10.424 | Ceded Present Value Future Cash Flows |
| Reinsurance fulflilment cash flows | 29.620 | 29.818 | 13.026 | 10.207 |  |
| Reinsurance reserve/ best estimate | 29.620 | 29.818 | 12.612 | 10.191 |  |
| net premium reserve non linked | 23.097 | 10.883 | 2.767 | 4.661 | PVFCF remaining coverage - non actuarial |
| outstanding claims non linked | 4.786 | 13.765 | 10.537 | 9.894 | PVFCF remaining coverage - actuarial |
| net premium reserve unit linked | 1.717 | 5.170 | 4.842 | 4.958 | Ceded LIC |
| outstanding claims unit linked | 20 |  |  |  |  |
| Reinsurance risk adjustment | - |  | 413 | 16 |  |
| Reinsurance CSM (loss component) | - | - | 106 | 218 |  |
| Policyholders loans | 403 | - |  |  |  |
| Current TAX assets | 24.500 | 24.500 | 26.566 | 27.195 |  |
| Other receivable | 135.357 | 135.357 | 145.038 | 145.217 |  |
| Employee loans | 61 | 61 | 55 | 50 |  |
| Prepaid and recov.taxes and social security | 126.407 | 126.407 | 142.069 | 143.496 |  |
| Other receivable | 8.389 | 8.389 | 2.901 | 1.641 |  |
| Accrued income and prepaid expenses | 500 | 500 | 14 | 30 |  |
| Other non current assets | 39.251 | 39.251 | 2.205 | 2.675 |  |
| Deferred participation assets | - | - |  |  |  |
| DPA fair value adjustments - equities | - |  |  |  |  |
| DPA fair value adjustments - derivative | o |  |  |  |  |
| Deferred Tax Assets | 150.325 | 5.533 | 513.085 | 480.036 | DTA on insurance and reinsurance financial reserves |
| DTA - fair value adjustments - FVTOCI | 141.427 |  | 390.511 | 352.413 |  |
| DTA - fair value adjustments - FVTPL | 7.588 |  | 122.574 | 127.623 |  |
| DTA - fair value adjustments - derivative | 1.310 |  |  |  |  |
| DTA - other | 27.368 | 27.368 | 185.155 | 3.959 |  |
| Deferred tax assets | 177.693 | 32.901 | 698.240 | 483.995 |  |
| Tot other assets | 377.204 | 232.009 | 872.049 | 659.082 |  |
| Cash and cash equivalents | 122.599 | 106.846 | 98.023 | 201.934 |  |
| Cash at bank | 106846,4431 | 106.846 | 98.023 | 201.934 |  |
| Reinsurance receivable | 15752,9963 | - |  |  |  |
| Acquired Value in Force | 200.901 |  |  |  |  |
| Tot assets | 10.514 .729 | 10.147 .659 | 10.036 .682 | 9.727.224 |  |
| in accounting system | 10.514 .730 | 10.147.659 | 10.036 .682 | 9.727 .224 |  |
| delta | 1 | 0 | - | - |  |

## Balance sheet Liabilities (1/3)

## Example

Transition date 1.1.2022;
Q4 2022; Q2 2023


## Balance sheet Liabilities (2/3)

## Example

Transition date 1.1.2022;
Q4 2022; Q2 2023

| Embedded derivative | ed |  |  | Q4 2022 | Q2 2023 |  | $\qquad$ <br> snluppo inIzaAtive attuariali |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | IFRS4 IFRS17. Transition 368.226 |  |  |  |  |  |
| Fair value adjustments through recyclable OCI |  | 354.931 |  |  |  |  |  |
| Fair value adjustments through non recyclable OCI |  | - |  |  |  |  |  |
| Fair value adjustments at FVTPL |  | 31.248 |  |  |  |  |  |
| Provisions for impairment- securities at FVTOCI R ( ${ }^{* *}$ ) | - | 17.953 |  |  |  |  |  |
| Derivative instruments - Fair Value adjustments | di | 8.246 |  |  |  |  |  |
| Tot Insurance and Financial Liabilities |  | 9.733 .138 | 9.503.606 | 8.545 .428 |  | 8.238.161 |  |
| Provisions for liabilities and charges |  | 2.537 | 2.537 | 1.989 |  | 2.201 |  |
| claims and litigation |  | 2.415 | 2.415 | 1.867 |  | 2.079 |  |
| other |  | 122 | 122 | 122 |  | 122 |  |
| Sub-debt at amortized cost |  | 58.387 | 58.387 | 58.387 |  | 58.387 |  |
| Sub-debt at FVTPL |  | - | - |  |  | 114.356 |  |
| Liabilities arising from reinsurance transactions | V | 16.199 | - |  |  |  |  |
| Other financing liabilities |  | - | - |  |  | 116.127 |  |
| Liabilities arising from derivative swaps |  | 219 | 219 |  |  | - |  |
| Deferred Tax Liabilities |  | 240.647 | 103.014 | 743.370 |  | 534.303 |  |
| Deferred tax liabilities at Fair Value through OCI |  | 150.893 | 5.626 | - |  | - |  |
| Deferred tax liabilities at Fair Value through P\&L |  | 27.775 | 1.555 | 7.129 |  | 3.573 |  |
| Fair value adjustments |  | 26.220 | - |  |  |  |  |
| Fair value adjustments on derivative instruments |  | 1.555 | 1.555 | 7.129 |  | 3.573 |  |
| Deferred tax liabilities on insurance financial reserve |  |  |  | 362.996 |  | 327.456 |  |
| Deferred tax liabilities fair value adjustments - derivative |  | 154 | - |  |  |  |  |
| Deferred tax liabilities SA adjustments |  | - - | 2.914.289 | 2.914.289 | - | 2.914 .289 |  |
| Local GAAP vs IFRS17 BBA |  | - - | 35.397 | 35.397 | - | 35.397 |  |
| Local GAAP vs IFRS17 VFA |  | - - | 2.878 .892 | 2.878 .892 | - | 2.878 .892 |  |
| Deferred tax liabilities other |  | 61.825 | 3.010.122 | 3.287.534 |  | 3.117.563 |  |
| Other liabilities |  | 93.292 | 93.639 | 64.775 |  | 232.854 |  |
| Amount due (owed) to employees |  | 137 | 137 | 270 |  | 439 |  |
| Accrued payroll and other taxes |  | 39.897 | 40.244 | 33.802 |  | 41.969 |  |
| Current account advances from controlled entities |  | 40 | 40 | 40 |  | 272 |  |
| Other payables |  | 51.693 | 51.693 | 27.974 |  | 185.005 |  |
| Supplier accounts (payables) |  | 1.526 | 1.526 | 2.690 |  | 4.649 |  |
| Deferred income |  |  |  | - |  | 520 |  |
| Tot other liabilities |  | 350.356 | 196.872 | 808.146 |  | 767.157 |  |
| Tot Liabilities |  | 10.514.605 | 10.147 .659 | 10.036.682 |  | 9.727.224 |  |
| in accounting system |  | 10.514.605 | 10.147.659 | 10.036.682 |  | 9.727 .224 |  |
| delta |  | - | - |  |  |  |  |

## Balance sheet Liabilities (3/3)

## Example

Transition date 1.1.2022;
Q4 2022; Q2 2023

| Entity |  |  |
| :--- | :--- | ---: |
| Technical Provisions |  |  |
|  |  | Amounts are in thousands $€$ |
| Traditional portfolios (IFRS4) | IFRS4 \& IFRS9 |  |
| Outstanding claims | 7.241 .506 |  |
| Pre claim reserves | non linked | 52.610 |
| Unit linked - insurance contracts (IFRS4) | non linked | 7.188 .996 |
| Outstanding claims |  | 2.115 .161 |
| Pre claim reserves | assets not held in unit | 16.927 |
| Traditional portfolios - investment contracts at amortized cost (IFRS9) | 2.098 .233 |  |
| Unit linked - investment contracts at fair value (IFRS9) |  | - |
| Tot Technical provisions |  | - |


| Entity |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Technical Provisions | Amounts are in thousands € |  |  | Q2 2023 | change |  |
|  |  | IFRS17. Transition | Q4 2022 |  |  |  |
| Traditional portfolios BBA |  | 144.669 | 130.092 | 120.106 |  | 9.986 |
| Fuflilment cash flows |  | 135.300 | 124.470 | 113.803 |  | 10.667 |
| PVFCF (Present Value of Future Cash Flows) |  | 129.361 | 120.127 | 109.977 |  | 10.150 |
| BBA - LRC (liability for remaining coverage) | Term, LTC, DD | 108.573 | 105.401 | 95.303 | - | 10.098 |
| BBA - LIC (liability for incurred claims) | Term, LTC, DD | 20.787 | 14.725 | 14.674 | - | 52 |
| BBA - non actuarial | Term, LTC, DD | - |  |  |  |  |
| Risk adjustment | Term, LTC, DD | 5.940 | 4.344 | 3.827 | - | 517 |
| CSM - Contractual Service Margin | Term, LTC, DD | 9.369 | 5.622 | 6.302 |  | 681 |
| Traditional portfolios VFA |  | 9.358 .937 | 8.415.335 | 8.118.055 | - | 297.280 |
| Fuflilment cash flows |  | 9.073 .133 | 8.208 .637 | 7.953.360 |  | 255.277 |
| PVFCF (Present Value of Future Cash Flows) |  | 9.062 .089 | 8.175 .969 | 7.922.545 |  | 253.424 |
| VFA - LRC (liability for remaining coverage) | Participating and unit | 9.007 .834 | 8.109.302 | 7.832 .864 | - | 276.438 |
| VFA - LIC (liability for incurred claims) | Participating and unit | 48.750 | 53.612 | 69.012 |  | 15.400 |
| VFA - non actuarial | Participating and unit | 5.505 | 13.055 | 20.669 |  | 7.614 |
| Risk adjustment | Participating and unit | 11.044 | 32.668 | 30.815 | - | 1.853 |
| CSM - Contractual Service Margin | Participating and unit | 285.804 | 206.698 | 164.695 | - | 42.003 |
| Tot Technical provisions |  | 9.503.606 | 8.545.428 | 8.238.161 | - | 307.267 |
| Fuflilment cash flows |  | 9.208 .433 | 8.333.108 | 8.067.164 | - | 265.944 |
| PVFCF (Present Value of Future Cash Flows) |  | 9.191 .450 | 8.296 .096 | 8.032 .522 |  | 263.574 |
| Risk adjustment |  | 16.984 | 37.012 | 34.642 | - | 2.370 |
| CSM - Contractual Service Margin (A) |  | 295.173 | 212.320 | 170.997 |  | 41.322 |

## Financial statements

(1/7)

| Revenue gross of reinsurance | expected claims | change of RA | CSM recognized | experience variance on premiums\&commissions | DAC amortization | withdrawal (recognition) of loss component | Tot revenue |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GM | 17.558 | 557 | 864 | 5.600 | 513 | 2.716 | 27.807 |
| VFA | 37.828 | 1.650 | 14.986 | - | 543 | 2.633 | 52.374 |
| Total | 55.386 | 2.207 | 15.849 | 5.600 | 1.056 | 84 | 80.181 |

Example: Q2 2023. P\&L
[insurance] revenue and insurance result. Gross of reinsurance. Here, the GM - EXP gap on premiums \& commissions has been included in actual claims so that its net contribution to P \& L is nil.

| Financial statement gross of reinsurance | revenue | actual claims | actual commissions | actual expenses | total claims\&expenses | DAC amortization | Tot gross Insurance result |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GM | 27.807 | 21.493 | 7 | 1.362 | 22.848 | 513 | 4.447 |
| VFA | 52.374 | 3.585 | 21.441 | 11.533 | 36.559 | 543 | 15.273 |
| Total | 80.181 | 25.077 | 21.434 | 12.895 | 59.406 | 1.056 | 19.720 |

## Financial statements

(2/7)


Example: Q2 2023.
P\&L. Investment result and total result. Gross of reinsurance

| Financial statement |  |  | underwriting expenses not |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| gross of | Tot gross Insurance | Tot gross | in scope of fuffilment cash |  | other non- underwriting |  |  |  |  |  |
| reinsurance | result | investment result | flows | provisions for litigation | net expenses | other | current taxes | deferred taxes | Tot other | Tota |
| GM | 4.447 - | 1.834 |  |  |  |  |  |  | - | 2.613 |
| VFA | 15.273 | 4.257 |  |  |  |  |  |  | - | 19.530 |
| Out of business |  |  | 4.223 - | 212. | 20. | 233 | - | 2.621 - | 7.309 - | 7.309 |
| Total | 19.720 | 2.423 | 4.223 - | 212. | 20. | 233 | - | 2.621 - | 7.309 | 14.834 |

## Financial statements

(3/7)


Example: Q2 2023. P\&L
(Ceded) Reinsurance revenue and insurance results

## withdrawal



## Financial statement outward reinsurance

50 - 1.236

## Financial statements

(4/7)


Example: Q2 2023. P\&L
Reinsurance
investment and total
results


| Financial statement net of reinsurance | Tot Insurance result | Thereof revenue | Tot Investment result |  | other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GM | 3.211 | 25.353 | 858 |  | - | 2.352 |
| VFA | 15.273 | 52.374 | 4.257 |  | - | 19.530 |
| Out of business | - |  | - | - | 7.309 | 7.309 |
| Total | 18.483 | 77.727 | 3.398 | - | 7.309 | 14.573 |

## Financial statements

 (5/7)Example: Q2 2023. P\&L.

Detail of investment result: realized investment income

| recognized to P\&L |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
| $\quad$ Gross investment income | realized | unrealized | Total |
| Assets at FVTPL | 43.113 | 41.312 | 84.425 |
| Assets at OCI | $73.483-$ | 12.286 | 61.197 |
|  |  |  |  |
| Total | 116.596 | 29.025 | 145.621 |



## Financial statements <br> (6/7)

Example: Q2 2023.
P\&L. Detail of
investment result. Unrealized investment income

| recognized to P\&L |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
| $\quad$ Gross investment income | realized | unrealized | Total |
| Assets at FVTPL | 43.113 | 41.312 | 84.425 |
| Assets at OCI | $73.483-$ | 12.286 | 61.197 |
|  |  |  |  |
| Total | 116.596 | 29.025 | 145.621 |



## Financial statements

(7/7)

Example: Q2 2023. Net investment income recognized to OCl (instead of to P\&L). Details



## Financial effects on technical provisions



| Technical provisions financial effects |  |  |  | thousand $€$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Insurance Finance Expense | VFA contracts | GM contracts | tot Insurance finance expense | Reinsurance | Risk <br> Adjustment | CSM <br> accretion | Variable fee | total |
| go to FVTPL | 173.295 | 1.534 | 174.829 | 975 | 189 | 110 | 31.930 | 142.223 |
| go to FVTOCl | 112.824 | 1.535 | 114.360 | 958 | - | - | - | 115.317 |
| Total Comprehensive |  |  |  |  |  |  |  |  |
| Income | 286.119 | 3.070 | 289.189 | 18 | 189 | 110 | 31.930 | 257.540 |

## Analisys of movements

 (1/2)|  |  | change | insurance finance expense to OCl | insurance finance expense to P\&L \& VFA | non - eco assumptions | expected premiums and actual new business | commissions on premiums |  | Experience variance | Experience variance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Traditional portfolios GM | - | 9.986 |  |  |  |  |  |  |  |  |
| Fuflilment cash flows | - | 10.667 |  |  |  |  |  |  |  |  |
| PVFCF (Present Value of Future Cash Flows) | - | 10.150 |  |  |  |  |  |  |  |  |
| BBA - LRC (liability for remaining coverage) | - | 10.098 | 1.535 | 1.534 | 4.132 | 6.707 | 1.216 | - | 5.232 |  |
| BBA - LIC (liability for incurred claims) | - | 52 |  |  |  |  |  |  |  |  |
| BBA - non actuarial |  | - |  |  |  | - |  |  |  |  |
| Risk adjustment | - | 517 |  | 189 | 162 |  |  |  |  | 12 |
| CSM - Contractual Service Margin |  | 681 |  | 110 | 3.786 |  |  |  |  | 5.220 |
| Traditional portfolios VFA | - | 297.280 |  |  |  |  |  |  |  |  |
| Fuflilment cash flows | - | 255.277 |  |  |  |  |  |  |  |  |
| PVFCF (Present Value of Future Cash Flows) | - | 253.424 |  |  |  |  |  |  |  |  |
| VFA - LRC (liability for remaining coverage) | - | 276.438 | 112.824 | 173.295 | 38.611 | 520.924 | 6.043 | - | 40.688 |  |
| VFA - LIC (liability for incurred claims) |  | 15.400 |  |  |  |  |  |  |  |  |
| VFA - non actuarial |  | 7.614 |  |  |  | 7.614 |  |  |  |  |
| Risk adjustment | - | 1.853 |  | - | 544 |  |  |  |  | 341 |
| CSM - Contractual Service Margin | - | 42.003 |  | 31.930 | 36.396 |  |  |  |  | 41.309 |
|  |  | - |  |  |  |  |  |  |  |  |
| Tot Technical provisions | - | 307.267 |  |  |  |  |  |  |  |  |
| Fuflilment cash flows | - | 265.944 |  |  |  |  |  |  |  |  |
| PVFCF (Present Value of Future Cash Flows) | - | 263.574 |  |  |  |  |  |  |  |  |
| Risk adjustment | - | 2.370 |  |  |  |  |  |  |  |  |
| CSM - Contractual Service Margin (A) | - | 41.322 |  |  |  |  |  |  |  |  |

Analisys of movements
(2/2)

|  |  | expected claims \& |  | actual non-distinct | bow wave | CSM release | Risk Adj release |  |  | Check |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Traditional portfolios GM |  |  |  |  |  |  |  |  | 9.986 | OK |
| Fuflilment cash flows |  |  |  |  |  |  |  |  | 10.667 | OK |
| PVFCF (Present Value of Future Cash Flows) |  |  |  |  |  |  |  |  | 10.150 | OK |
| BBA - LRC (liability for remaining coverage) |  | 17.558 |  | - |  |  |  |  | 10.098 | OK |
| BBA - LIC (liability for incurred claims) |  |  | - | 52 |  |  |  | - | 52 | OK |
| BBA - non actuarial |  |  |  |  |  |  |  |  | - | OK |
| Risk adjustment |  |  |  |  |  |  | 557 | - | 517 | OK |
| CSM - Contractual Service Margin |  |  |  |  |  | 864 |  |  | 681 | OK |
| Traditional portfolios VFA |  |  |  |  |  |  |  | - | 297.280 | OK |
| Fuflilment cash flows |  |  |  |  |  |  |  | - | 255.277 | OK |
| PVFCF (Present Value of Future Cash Flows) |  |  |  |  |  |  |  | - | 253.424 | OK |
| VFA - LRC (liability for remaining coverage) |  | 37.828 | - | 1.037.532 |  |  |  | - | 276.438 | OK |
| VFA - LIC (liability for incurred claims) |  |  |  | 15.400 |  |  |  |  | 15.400 | OK |
| VFA - non actuarial |  |  |  |  |  |  |  |  | 7.614 | OK |
| Risk adjustment |  |  |  |  |  |  | 1.650 | - | 1.853 | OK |
| CSM - Contractual Service Margin |  |  |  |  | 250 | 14.736 |  | - | 42.003 | OK |
| Tot Technical provisions |  |  |  |  |  |  |  | - | 307.266 | OK |
| Fuflilment cash flows |  |  |  |  |  |  |  | - | 265.944 | OK |
| PVFCF (Present Value of Future Cash Flows) |  |  |  |  |  |  |  | - | 263.574 | OK |
| Risk adjustment |  |  |  |  |  |  |  | - | 2.370 | OK |
| CSM - Contractual Service Margin (A) |  |  |  |  |  |  |  | - | 41.322 | OK |

## 20

## Modello VFA (1/24)

Example
Participating contracts shaped as endowment at single premium. The [risk neutral] fund returns are lower than the yield curve used for discounting future cash flows: that's the current situation at June 2023
, begun on $2^{\text {nd }}$ half 2022

| $€$ thousands Valuation 6/23 | Segregated fund |
| :--- | ---: |
| Avg yield change from 3/22 | $2,00 \%$ |
| Premiums | 1.000 .000 |
| average | 20 |
| contracts incepted | 50.000 |
| Recurrent Commissions | $0,50 \%$ |
| front end loading | $0,70 \%$ |
| fee commission income | $1,10 \%$ |

## Direct work - new business - participating business (including part of hybrid products)

| € thousands |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| expenses |  |  |  |  |
| sum assured | 0,05\% annual | New business margin | 4,94\% | risk neutral |
| fixed | 0,01 annual | Initial CSM | 5,16\% | 2,06\% |
| claims | 0,008 per event | Liquidity premium (IFRS17) | 0,71\% | if LP were = SII_VA |
| initial on off | 100 |  |  |  |



Compared to March 2022:

- The entity is keen to apply a front end loading on premium because the policyholder can recover it thanks to long term higher asset returns
- The gross management fee is lower because the interest recognized to policyholders should be higher for avoiding lapses motived by comparison against alternative investments and also to ayoid extreme PHB effects in the valuation of SII Best Estimates
The IFRS 17 liquidity premium becomes significantly greater than SII volatility adjustment because the first is more sensitive to unrealized losses driven by spread widening and equity fall.
- This explains why the accumulation profits are greater than in SII: LP>VA entails higher asset returns over the first 10 years of projection ( 10 bp on average) which, although fully recognized to policyholders, generate an increase of expected volumes under management in Solvency II
- However, the spread of average asset return between real world and risk neutral is 90 bp in SII vs 80 in IFRS 17: 10 bp makes the real world NBM 4 bp greater ( $5.28 \%$ instead of 5.24\%)
- The CSM starts high thanks to a high LP: 5.16\%; if IFRS17_LP were equal to SII_VA, the initial CSM would be only $2.06 \%$ of initial consideration (Initial premium - initial commission)
shIUPPO INIZATIVE ATUARIAL


| t | profit \& loss <br> Local | accumulat. |  | profit \& loss IFRS17 | accumulat. | fund return real world | additional profit \& loss Local | additional accumulat. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  |  |  |  |  |  |
| 1 | 11.683 | 11.683 | F | 8.558 | 8.558 | 3,92\% | 11 | 11 |
| 2 | 5.715 | 17.398 | F | 7.788 | 16.346 | 3,96\% | 100 | 112 |
| 3 | 5.125 | 22.523 | F | 6.969 | 23.314 | 3,91\% | 182 | 294 |
| 4 | 4.465 | 26.988 | F | 6.373 | 29.687 | 3,84\% | 250 | 543 |
| 5 | 4.209 | 31.196 | F | 5.585 | 35.273 | 3,74\% | 318 | 862 |
| 6 | 3.988 | 35.184 | 7 | 4.819 | 40.092 | 3,80\% | 382 | 1.244 |
| 7 | 3.710 | 38.894 | 7 | 2.503 | 42.594 | 3,62\% | 439 | 1.683 |
| 8 | 3.553 | 42.447 | 7 | 1.571 | 44.165 | 3,73\% | 496 | 2.179 |
| 9 | 3.516 | 45.963 | F | 2.814 | 46.979 | 4,02\% | 555 | 2.734 |
| 10 | 3.474 | 49.437 | F | 2.458 | 49.437 | 4,04\% | 619 | 3.353 |

Modello VFA (5/24)


Variable fee table

|  | insurance finance expense before VF | underlying items (share of assets) | underlying items | change Fair Value underlying items |  | Variable fee |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | D |  |  | E |  | VF: E-D |
| 1 | 43.338 | 0,950 | 949.905 | 29.637 |  | 13.701 |
| 2 | 40.895 | 0,947 | 967.554 | 30.575 |  | 10.320 |
| 3 | 33.305 | 0,944 | 908.991 | 28.270 |  | 5.035 |
| 4 | 28.184 | 0,941 | 843.819 | 25.652 |  | 2.532 |
| 5 | 25.097 | 0,938 | 773.873 | 22.752 |  | 2.345 |
| 6 | 22.900 | 0,935 | 701.416 | 21.042 |  | 1.858 |
| 7 | 20.500 | 0,932 | 629.469 | 17.751 |  | 2.749 |
| 8 | 18.595 | 0,929 | 564.262 | 16.533 |  | 2.062 |
| 9 | 16.855 | 0,926 | 506.791 | 16.319 |  | 536 |
| 10 | 15.299 | 0,923 | 456.984 | 14.806 | - | 493 |


| t | CSM before | CSM | Loss |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| changes <br> 0 |  |  |  |  | $51.622,17$ | $51.622,17$ | - |
| 1 | $37.921,57$ | $37.921,57$ | - |  |  |  |  |
| 2 | $22.328,33$ | $22.328,33$ | - |  |  |  |  |
| 3 | $13.671,67$ | $13.671,67$ | - |  |  |  |  |
| 4 | $8.694,69$ | $8.694,69$ | - |  |  |  |  |
| 5 | $4.621,32$ | $4.621,32$ | - |  |  |  |  |
| 6 | $1.731,18$ | $1.731,18$ | - |  |  |  |  |
| $7-$ | $1.460,76$ | - | $1.460,76$ |  |  |  |  |
| $8-$ | $3.082,34$ | - | $3.082,34$ |  |  |  |  |
| $9-$ | $2.452,41$ | - | $2.452,41$ |  |  |  |  |
| $10-$ | $1.638,17$ | - | $1.638,17$ |  |  |  |  |

- Although the initial CSM is high enough for offsetting VFA negative adjustments, this task fails from year 7 , when, as consequence, IFRS 17 must recognize a loss recognition
- Prolonged negative VFA adjustments are due to the continuous excess of economic (financial) changes of best estimates (PVFCF) as of the investment income generated by the underlying items mainly due to the significant impact of unwinding of interest rates, more significant than the asset yields
- The first time a loss recognition is recognized, its impact on P\&L matches the total amount
- From the second year of loss recognition, its impact on P\&L matches the variable fee which is not possible to use for mitigating the insurance finance expense:
- Formally, the insurance finance expense is negatively adjusted with a contribution to profits, anyway the corresponding impact on loss recognition is recognized as losses

| t | CSM before <br> changes | CSM | Loss |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| 0 | $51.622,17$ | $51.622,17$ | - |  |  |  |
| 1 | $37.921,57$ | $37.921,57$ | - |  |  |  |
| 2 | $22.328,33$ | $22.328,33$ | - |  |  |  |
| 3 | $13.671,67$ | $13.671,67$ | - |  |  |  |
| 4 | $8.694,69$ | $8.694,69$ | - |  |  |  |
| 5 | $4.621,32$ | $4.621,32$ | - |  |  |  |
| 6 | $1.731,18$ | $1.731,18$ | - |  |  |  |
| $7-$ | $1.460,76$ | - | $1.460,76$ |  |  |  |
| $8-$ | $3.082,34$ | - | $3.082,34$ |  |  |  |
| $9-$ | $2.452,41$ | - | $2.452,41$ |  |  |  |
| $10-$ | $1.638,17$ | - | $1.638,17$ |  |  |  |



Revenue table

| t | INSURANCE SERVICE |  |  |  |  |  |  | Reversal (or recognition) of | CSM release (H) | Risk Adj release (I) | Revenue |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | death | expenses | Tot (F) | DAC | Dac release (G) | CSM | Loss | loss component (LS) |  |  |  |
| - |  |  |  | 100 |  | 51.622 | - |  |  |  | G+H+1+LS) |
| 1 | 298 | 6.066 | 6.364 | 90 | 10 | 32.648 | - | - | 5.273 | 1.725 | 13.373 |
| 2 | 424 | 6.154 | 6.578 | 73 | 17 | 18.707 | - | - | 3.621 | 2.456 | 12.672 |
| 3 | 492 | 5.748 | 6.239 | 58 | 15 | 11.226 | - | - | 2.445 | 2.846 | 11.546 |
| 4 | 525 | 5.301 | 5.826 | 45 | 13 | 6.967 | - | - | 1.728 | 3.036 | 10.604 |
| 5 | 527 | 4.827 | 5.354 | 33 | 12 | 3.589 | - | - | 1.032 | 3.049 | 9.447 |
| 6 | 503 | 4.344 | 4.847 | 23 | 10 | 1.289 | - | - | 443 | 2.913 | 8.213 |
| 7 | 461 | 3.856 | 4.317 | 15 | 8 | - | 1.461 | 1.461 | - | 2.668 | 5.533 |
| 8 | 409 | 3.423 | 3.832 | 9 | 6 | - | 3.082 | 2.062 | - | 2.369 | 4.146 |
| 9 | 353 | 3.043 | 3.396 | 4 | 5 | - | 2.452 | 536 | - | 2.046 | 4.911 |
| 10 | 296 | 2.653 | 2.950 | - | 4 | - | 1.638 | 493 | - | 1.716 | 4.177 |

Financial Statements


Balance sheet

| t | Assets (AS) | Best estimate Risk Adjustment |  | CSM | Technical <br> provisions (TP) | own funds <br> AS-TP | profits <br> (losses) |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 0 | 999.900 | 923.453 | 24.825 | 51.622 | 999.900 | - |  |
| 1 | 1.021 .704 | 957.398 | 23.100 | 32.648 | 1.013 .147 | 8.558 | 8.558 |
| 2 | 962.914 | 907.217 | 20.645 | 18.707 | 946.569 | 16.346 | 7.788 |
| 3 | 896.726 | 844.387 | 17.799 | 11.226 | 873.412 | 23.314 | 6.969 |
| 4 | 825.024 | 773.608 | 14.762 | 6.967 | 795.337 | 29.687 | 6.373 |
| 5 | 750.178 | 699.603 | 11.713 | 3.589 | 714.905 | 35.273 | 5.585 |
| 6 | 675.396 | 625.216 | 8.800 | 1.289 | 635.305 | 40.092 | 4.819 |
| 7 | 607.386 | 558.660 | 6.131 | - | 564.792 | 42.594 | 2.503 |
| 8 | 547.290 | 499.364 | 3.762 | - | 503.125 | 44.165 | 1.571 |
| 9 | 495.107 | 446.412 | 1.716 | - | 448.128 | 46.979 | 2.814 |
| 10 | 49.437 | 0 | - | - | 0 | 49.437 | 2.458 |

## Modello VFA(10/24)

The aggregate IFRS 17 profits are greater than
Solvency Il because - amongst the effects of liquidity premium assumptions being higher than volatility assumptions - there is an additional gross investment income by 10 bp

- Liquidity premium and volatility adjustment have the effect reduce the probability of default, hence their level makes expected profits higher
- We assume that expected investment income reacts to the assumptions about liquidity premium or volatility adjustment with an e)asticity of $20 \%$ ( $50 \%$ of LP vs VA $\rightarrow 10$ bp delta ¢f investment income

Single premium participating contracts
Own funds; profits\&losses. Risk neutral

| Before reinsurance |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | IFRS17 |  | Local\&IFRS4 |  | Solvency II |  |
| year | Own funds | Profits (losses) | Own funds | Profits (losses) | Own funds | Profits (losses) |
| 0 (day 1) | 0 |  | 6.900 |  | 31.956 |  |
| 1 | 8.558 | 8.558 | 11.682 | 11.682 | 24.386 | 24.386 |
| 2 | 16.346 | 7.788 | 17.384 | 5.702 | 20.704 | 3.682 |
| 3 | 23.314 | 6.969 | 22.486 | 5.102 | 22.302 | 1.598 |
| 4 | 29.687 | 6.373 | 26.920 | 4.434 | 26.229 | 3.927 |
| 5 | 35.273 | 5.585 | 31.090 | 4.170 | 30.050 | 3.820 |
| 6 | 40.092 | 4.819 | 35.031 | 3.941 | 34.090 | 4.041 |
| 7 | 42.594 | 2.503 | 38.687 | 3.656 | 36.849 | 2.758 |
| 8 | 44.165 | 1.571 | 42.181 | 3.494 | 40.054 | 3.206 |
| 9 | 46.979 | 2.814 | 45.631 | 3.450 | 44.635 | 4.581 |
| 10 | 49.437 | 2.458 | 49.031 | 3.400 | 49.031 | 4.395 |

## Modello VFA(11/24)

## Example

Participating contracts shaped as endowment at single premium. The [risk neutral] fund returns are lower than the yield curve used for discounting future

|  | - |
| :--- | ---: |
| Premiums | 1.000 .000 |
| average | 20 |
| contracts incepted | 50.000 |
| Recurrent Commissions | $0,50 \%$ |
| front end loading | $0,10 \%$ |
| fee commission income | $1,40 \%$ |

IUPPO NIIIATIVE ATUARIALI cash flows: that's the current situation
begun on $2^{\text {nd }}$ half 2022
Direct work - new business - participating business (including part of hybrid products)
€ thousands

| expenses |  |  |  |
| :---: | :---: | :---: | :---: |
| sum assured | 0,05\% annual <br> 0,01 annual | New business margin | 5,74\% |
| fixed |  |  | 0,00\% |
| claims | 0,008 per event | Liquidity premium (IFRS17) | 0,35\% |
| initial on off | 100 | Initial CSM margin | 4,96\% |

shIUPPO INIZATIVE ATUARIAI


## Modello VFA (13/24)



Revenue table

| t | INSURANCE SERVICE |  |  |  |  |  | Reversal (or recognition) of |  | CSM release (H) | Risk Adj release (I) | Rev: $\begin{array}{r}\text { Revenue } \\ (\mathrm{F}+\mathrm{G}+\mathrm{H}+1+\mathrm{LS})\end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | death | expenses | Tot (F) | DAC | Dac release (G) | CSM | Loss | component (LS) |  |  |  |
|  |  |  |  | 100 |  | 49.596 | - |  |  |  |  |
| 1 | 300 | 6.001 | 6.301 | 90 | 10 | 50.545 | - | - | 8.818 | 1.879 | 17.008 |
| 2 | 419 | 5.984 | 6.403 | 73 | 17 | 39.491 | - | - | 8.201 | 2.626 | 17.246 |
| 3 | 476 | 5.494 | 5.970 | 58 | 15 | 29.009 | - | - | 6.732 | 2.988 | 15.705 |
| 4 | 499 | 4.980 | 5.479 | 45 | 13 | 19.870 | - | - | 5.214 | 3.128 | 13.834 |
| 5 | 492 | 4.459 | 4.951 | 33 | 12 | 11.974 | - | - | 3.617 | 3.083 | 11.662 |
| 6 | 461 | 3.944 | 4.406 | 23 | 10 | 5.975 | - | - | 2.140 | 2.892 | 9.448 |
| 7 | 415 | 3.447 | 3.861 | 15 | 8 | 757 | - | - | 338 | 2.600 | 6.807 |
| 8 | 362 | 3.009 | 3.371 | 9 | 6 | - | 3.616 | 3.616 | - | 2.270 | 2.030 |
| 9 | 307 | 2.629 | 2.936 | 4 | 5 | - | 5.123 | 2.898 | - | 1.924 | 1.967 |
| 10 | 253 | 2.262 | 2.514 | - | 4 | - | 5.087 | 2.718 | - | 1.584 | 1.385 |



Balance sheet

| t | Assets (AS) | Best estimate Risk Adjustment |  | CSM | Technical <br> provisions (TP) | own funds <br> AS-TP | profits <br> (losses) |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 0 | 999.900 | 925.329 | 24.975 | 49.596 | 999.900 | - |  |
| 1 | 1.005 .874 | 920.772 | 23.096 | 50.545 | 994.414 | 11.460 | 11.460 |
| 2 | 933.349 | 850.266 | 20.469 | 39.491 | 910.227 | 23.122 | 11.662 |
| 3 | 856.042 | 775.918 | 17.482 | 29.009 | 822.408 | 33.634 | 10.512 |
| 4 | 776.019 | 699.089 | 14.353 | 19.870 | 733.313 | 42.706 | 9.072 |
| 5 | 695.600 | 622.302 | 11.271 | 11.974 | 645.546 | 50.053 | 7.347 |
| 6 | 617.835 | 547.761 | 8.378 | 5.975 | 562.114 | 55.721 | 5.668 |
| 7 | 548.391 | 482.682 | 5.778 | 757 | 489.217 | 59.174 | 3.453 |
| 8 | 488.041 | 426.185 | 3.509 | - | 429.694 | $58.348-$ | 826 |
| 9 | 436.447 | 376.902 | 1.584 | - | 378.486 | $57.961-$ | 386 |
| 10 | 57.381 | 0 | - | - | 0 | $57.381-$ | 580 |


| Own funds; profits\&losses. Risk neutral Before reinsurance |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | IFRS17 |  | Local\&IFRS4 |  | Solvency II |  |
| year | Own funds | Profits <br> (losses) | Own funds | Profits <br> (losses) | Own funds | Profits <br> (losses) |
| 0 (day 1) | 0 |  | 900 |  | 36.581 |  |
| 1 | 11.460 | 11.460 | 8.614 | 8.614 | 51.753 | 51.753 |
| 2 | 23.122 | 11.662 | 17.104 | 8.490 | 54.150 | 2.397 |
| 3 | 33.634 | 10.512 | 24.631 | 7.527 | 55.433 | 1.282 |
| 4 | 42.706 | 9.072 | 31.147 | 6.516 | 56.303 | 870 |
| 5 | 50.053 | 7.347 | 36.642 | 5.494 | 56.547 | 245 |
| 6 | 55.721 | 5.668 | 41.977 | 5.335 | 57.004 | 457 |
| 7 | 59.174 | 3.453 | 45.690 | 3.713 | 56.130 | 875 |
| 8 | 58.348 | 826 | 49.646 | 3.956 | 55.602 | 528 |
| 9 | 57.961 | 386 | 53.654 | 4.008 | 56.478 | 875 |
| 10 | 57.381 | 580 | 57.381 | 3.727 | 57.381 | 903 |

## Modello VFA(18/24)

## Example

Participating contracts shaped as endowment at single premium. The [risk neutral] fund returns are greater than the yield curve used for discounting fyture cash flows: that was the typical situation until 2021

Direct work - new business - participating business (including part of hybrid products)
$€$ thousands
expenses

|  | sum assured | $0,05 \%$ annual | New business margin |
| :--- | :---: | :--- | :--- |
| fixed | 0,01 annual | $3,24 \%$ risk neutral |  |
| claims | 0,008 per event | Liquidity premium (IFRS17) | $0,00 \%$ |
| initial on off | 100 | Initial CSM margin | $0,35 \%$ |

sVIUPPO INIIATIVE ATUARIALI

## 38



## Modello VFA (20/24)

## 39




| Revenue table |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| t | INSURANCE SERVICE |  |  |  |  |  |  | Reversal (or recognition) of | CSM release (H) | Risk Adj release (I) | Revenue <br> Rev: $(\mathrm{F}+\mathrm{G}+\mathrm{H}+\mathrm{I}+\mathrm{LS})$ |
|  | death | expenses | Tot (F) | DAC | Dac release (G) | CSM | Loss | component (LS) |  |  |  |
| - |  |  |  | 100 |  | - | 42.530 |  |  |  |  |
| 1 | 300 | 5.994 | 6.294 | 90 | 10 | - | 21.829 | 20.702 | - | 1.886 | 28.892 |
| 2 | 418 | 5.968 | 6.387 | 73 | 17 | - | 11.863 | 6.713 | - | 2.633 | 15.749 |
| 3 | 475 | 5.473 | 5.948 | 58 | 15 | - | 4.804 | 5.014 | - | 2.990 | 13.968 |
| 4 | 497 | 4.960 | 5.457 | 45 | 13 | 134 | - | 3.898 | 35 | 3.127 | 12.530 |
| 5 | 489 | 4.441 | 4.930 | 33 | 12 | 2.339 | - | - | 707 | 3.080 | 8.729 |
| 6 | 459 | 3.928 | 4.387 | 23 | 10 | 3.553 | - | - | 1.273 | 2.890 | 8.560 |
| 7 | 413 | 3.432 | 3.845 | 15 | 8 | 2.934 | - | - | 1.311 | 2.598 | 7.762 |
| 8 | 360 | 2.996 | 3.357 | 9 | 6 | 2.103 | - | - | 1.316 | 2.268 | 6.946 |
| 9 | 305 | 2.613 | 2.918 | 4 | 5 | 1.577 | - | - | 1.837 | 1.923 | 6.683 |
| 10 | 251 | 2.243 | 2.494 | - | 4 | 0 | - | - | 2.555 | 1.579 | 6.632 |

inancial Statements

| t | revenue |  | claims \& expenses | gross <br> investment | thereof on underlying |  | insurance finance | Dac amortiz. |  | P\&L | accumul. P\&L |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | income | items |  | expense |  |  | 42.530 | - | 42.530 |
| 1 | 28.892 | - | 6.294 | 11.199 | 10.639 | - | 10.639 | - | 10 | 23.148 | - | 19.382 |
| 2 | 15.749 | - | 6.387 | 11.621 | 11.005 | - | 11.005 | - | 17 | 9.962 | - | 9.421 |
| 3 | 13.968 | - | 5.948 | 10.272 | 9.697 | - | 9.697 | - | 15 | 8.580 | - | 841 |
| 4 | 12.530 | - | 5.457 | 8.784 | 8.266 | - | 8.266 | - | 13 | 7.578 |  | 6.738 |
| 5 | 8.729 | - | 4.930 | 7.157 | 6.713 | - | 6.713 | - | 12 | 4.231 |  | 10.969 |
| 6 | 8.560 | - | 4.387 | 6.781 | 6.340 | - | 6.340 | - | 10 | 4.604 |  | 15.573 |
| 7 | 7.762 | - | 3.845 | 4.902 | 4.568 | - | 4.568 | - | 8 | 4.242 |  | 19.815 |
| 8 | 6.946 | - | 3.357 | 4.892 | 4.544 | - | 4.544 | - | 6 | 3.931 |  | 23.745 |
| 9 | 6.683 | - | 2.918 | 5.655 | 5.236 | - | 5.236 | - | 5 | 4.178 |  | 27.923 |
| 10 | 6.632 | - | 2.494 | 5.084 | 4.693 | - | 4.693 | - | 4 | 4.525 |  | 32.449 |

Balance sheet


| Own fund | Own funds; profits\&losses. Risk neutral |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | IFRS17 |  | Local\&IFRS4 |  |  | Solvency II |  |
| year |  | Own funds | Profits | Own funds | Profits |  | Own funds | Profits |
|  |  |  | (losses) |  | (losses) |  |  | (losses) |
| 0 (day 1) |  | -42.530 |  | 900 |  | - | 58.004 |  |
| 1 | - | 19.382 | 19.382 | 5.820 | 5.820 | - | 31.532 | 31.532 |
| 2 | - | 9.421 | 9.962 | 11.849 | 6.029 | - | 19.335 | 12.197 |
| 3 | - | 841 | 8.580 | 16.582 | 4.733 | - | 9.128 | 10.207 |
| 4 |  | 6.738 | 7.578 | 19.909 | 3.327 | - | 169 | 8.959 |
| 5 |  | 10.969 | 4.231 | 22.136 | 2.227 |  | 7.310 | 7.479 |
| 6 |  | 15.573 | 4.604 | 24.530 | 2.394 |  | 14.109 | 6.799 |
| 7 |  | 19.815 | 4.242 | 25.587 | 1.056 |  | 18.765 | 4.656 |
| 8 |  | 23.745 | 3.931 | 27.122 | 1.535 |  | 23.018 | 4.253 |
| 9 |  | 27.923 | 4.178 | 29.858 | 2.736 |  | 27.990 | 4.972 |
| 10 |  | 32.449 | 4.525 | 32.449 | 2.590 |  | 32.449 | 4.459 |

## 44

## Ceded Reinsurance (1/9)

Example 1 again. Remind! These are the assumptions about business

Participating contracts shaped as endowment at single premium. The [risk neutral] fund returns are lower than the yield curve used for discounting future

| $€$ thousands Valuation 6/23 | Segregated fund |
| :--- | ---: |
| Avg yield change from $3 / 22$ | $2,00 \%$ |
| Premiums | 1.000 .000 |
| average | 20 |
| contracts incepted | 50.000 |
| Recurrent Commissions | $0,50 \%$ |
| front end loading | $0,70 \%$ |
| fee commission income | $1,10 \%$ | cash flows

Direct work - new business - participating business (including part of hybrid products)
€ thousands


## Ceded Reinsurance (2/9)

## Example 1 again.

Ceded $40 \%$ in quota share. Received back suddenly an initial commission.

The initial net consideration is not paid, rather the cedant entity sets up a deposit liability in its balance sheet and recognize on cash recurrent interests to the reinsurer.
The gross NBM (4.95\%) drops down net of reinsurance to $4.78 \%$ because the overall balance of reinsurance deal brings losses (obviqusly, the reinsurer has to gain to accept risks)

## Reinsurance the point of view of cedent entity

| expenses <br> reins.management | 0,005\% annual | New business margin <br> Net of reinsurance | 4,78\% risk neutral$0,00 \%$ |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
| reinsurance default | 0,15\% annual |  |  |

## Ceded Reinsurance <br> (3/9)

The local GAAP gross NPR is ceded in quota share, consistent with the local regulation.
As regards the formulaic of [ceded] best estimate [PVFCF], compared to the gross PVFCF:

- Cash flows in scope allow for (1) interests on deposit and (2) allowance for reinsurance default

Furthermore, the P\&L of cedant entity (a) earns an additional investment income originating from the commission received and (b) loses additional expenses to (overhead expenses) to manage the reinsurance treaty

The cedant mitigates its risk adjustment in proportion to the ceded mortality risk whilst expense risk is not ceded at all


## Ceded Reinsurance (4/9)

The ceded P\&L figures out as the cash recurrently exchanges between the counterparties. After the initial commission received on cash by the cedant, since then, the reinsurer receives money that is gauged as the "net inflows" (= the balance of cash flows in scope of ceded PVFCF excluding the allowance for default) and the change of local ceded NPR.

The aggregate $\mathrm{P} \& \mathrm{~L}$ is adverse for the cedant (of course) by -1676 , anyway the cedant has a favor overall balance under the real world economic environment that is worth 2718 so that it earns $-1676+2718=+1042$


## Ceded Reinsurance <br> (5/9)

Unlike direct work, ceded coverage units are not affected by expenses
There's never loss recognition
CSM starts high: initial net consideration (400000-20000=380000) - initial ceded best estimate - initial ceded risk adjustment

Note that ceded work is accounted for in General Model even though direct work is under Variable Fee Model, despite the characteristics of ceded business is clearly participating, likewise the direct work
overage units table Ceded reinsurance

| carrier and | carrier and | carrier and | Coverage |
| ---: | ---: | ---: | ---: |
| weight (A) | weight (B) | weight (C ) | units |
| $80 \%$ | $20 \%$ | $0 \%$ |  |
| $100 \%$ | $100 \%$ | $100 \%$ | $100 \%$ |
| $87 \%$ | $82 \%$ | $87 \%$ | $86 \%$ |
| $73 \%$ | $66 \%$ | $73 \%$ | $72 \%$ |
| $61 \%$ | $51 \%$ | $60 \%$ | $59 \%$ |
| $49 \%$ | $39 \%$ | $49 \%$ | $47 \%$ |
| $38 \%$ | $28 \%$ | $38 \%$ | $36 \%$ |
| $29 \%$ | $20 \%$ | $29 \%$ | $27 \%$ |
| $20 \%$ | $13 \%$ | $20 \%$ | $19 \%$ |
| $13 \%$ | $7 \%$ | $13 \%$ | $12 \%$ |
| $6 \%$ | $3 \%$ | $6 \%$ | $5 \%$ |
| $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ |


| t | CSM before | CSM | Loss |  |
| :---: | :---: | :---: | :---: | :---: |
| changes |  |  |  |  |
| 0 | $93.406,97$ | $93.406,97$ | - |  |
| 1 | $97.790,55$ | $97.790,55$ | - |  |
| 2 | $87.568,42$ | $87.568,42$ | - |  |
| 3 | $75.852,73$ | $75.852,73$ | - |  |
| 4 | $64.186,07$ | $64.186,07$ | - |  |
| 5 | $52.948,77$ | $52.948,77$ | - |  |
| 6 | $42.345,30$ | $42.345,30$ | - |  |
| 7 | $32.459,91$ | $32.459,91$ | - |  |
| 8 | $23.356,22$ | $23.356,22$ | - |  |
| 9 | $14.969,34$ | $14.969,34$ | - |  |
| 10 | $7.214,28$ | $7.214,28$ | - |  |

## Ceded Reinsurance (6/9)

Revenue ceded to reinsurance is material and is due mainly due to the release of coverage units
Note that expenses are not ceded to reinsurance, neither overhead nor commissions

| Revenue table |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| t | INSURANCE SERVICE |  |  |  |  |  | Reversal (or recognition) of |  |  |  |  |
|  |  |  |  |  |  |  |  |  | CSM release | Risk Adj |  |
|  | death | expenses | Tot (F) | DAC | Dac release (G) | CSM | Loss | component (LS) | (H) | release (I) | Revenue |
| 0 |  |  |  | - |  | 93.407 | - |  |  |  | Rev: -(F+G+H+I+LS) |
| 1 | 119 | - | 119 | - | - | 83.981 | - | - | 13.809 | 621 | 14.549 |
| 2 | 170 | - | 170 | - | - | 73.167 | - | - | 14.402 | 884 | 15.455 |
| 3 | 197 | - | 197 | - | - | 62.113 | - | - | 13.740 | 1.025 | 14.961 |
| 4 | 210 | - | 210 | - | - | 51.285 | - | - | 12.901 | 1.093 | 14.204 |
| 5 | 211 | - | 211 | - | - | 41.003 | - | - | 11.946 | 1.098 | 13.254 |
| 6 | 201 | - | 201 | - | - | 31.429 | - | - | 10.916 | 1.049 | 12.166 |
| 7 | 184 | - | 184 | - | - | 22.604 | - | - | 9.856 | 961 | 11.001 |
| 8 | 164 | - | 164 | - | - | 14.481 | - | - | 8.876 | 853 | 9.892 |
| 9 | 141 | - | 141 | - | - | 6.975 | - | - | 7.994 | 736 | 8.872 |
| 10 | 119 | - | 119 | - | - | 0 | - | - | 7.214 | 618 | 7.951 |

## Ceded Reinsurance <br> (7/9)

Actual claims and expenses charged to the treaty have been reduced by the additional expenses for reinsurance management: in this way, they increase the losses for the cedant.

Gross investment income equates the additional income originating from the initial commission received
Insurance finance expense equates the unwinding of opening ceded PVFCF and ceded CSM. Note that there's no variable fee ceded to the treaty. The reinsurance default reduces losses (as default is released from the ceded PVFCF)

| Financial Statements |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | t | revenue | claims \& expenses | gross investment | insurance <br> finance | reinsurance default | Dac amortiz. |  | P\&L | accumul. P\&L |
|  | 0 |  |  | income | expense |  |  |  | - | - |
|  | 1 - | 14.549 | 99 | 939 | 17.414 |  | - |  | 3.903 | 3.903 |
|  | 2 - | 15.455 | 149 | 894 | 16.450 | 65 | - |  | 2.104 | 6.006 |
|  | 3 - | 14.961 | 178 | 802 | 13.414 | 112 | - | - | 456 | 5.550 |
|  | 4. | 14.204 | 192 | 755 | 11.355 | 164 | - | - | 1.738 | 3.813 |
|  | 5 - | 13.254 | 195 | 759 | 10.104 | 215 | - | - | 1.981 | 1.831 |
|  | 6 - | 12.166 | 187 | 790 | 9.199 | 260 | - | - | 1.730 | 101 |
|  | 7 - | 11.001 | 172 | 818 | 8.216 | 276 | - | - | 1.519 | 1.418 |
|  | 8 - | 9.892 | 152 | 857 | 7.416 | 280 | - | - | 1.187 | 2.605 |
|  | 9 | 8.872 | 131 | 898 | 6.688 | 275 | - | - | 878 | 3.484 |
| 10 | - | 7.951 | 110 | 943 | 6.052 | 2.653 | - |  | 1.808 | 1.676 |

## 51 <br> Ceded Reinsurance <br> (8/9)



| Single premium participating contracts Own funds; profits\&losses. Risk neutral Before reinsurance |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | IFRS17 |  | Local\&IFRS4 |  | Solvency II |  |
| year | Own funds | Profits (losses) | Own funds | Profits (losses) | Own funds | Profits (losses) |
| 0 (day 1) | 0 |  | 6.900 |  | 31.956 |  |
| 1 | 8.558 | 8.558 | 11.682 | 11.682 | 24.386 | 24.386 |
| 2 | 16.346 | 7.788 | 17.384 | 5.702 | 20.704 | 3.682 |
| 3 | 23.314 | 6.969 | 22.486 | 5.102 | 22.302 | 1.598 |
| 4 | 29.687 | 6.373 | 26.920 | 4.434 | 26.229 | 3.927 |
| 5 | 35.273 | 5.585 | 31.090 | 4.170 | 30.050 | 3.820 |
| 6 | 40.092 | 4.819 | 35.031 | 3.941 | 34.090 | 4.041 |
| 7 | 42.594 | 2.503 | 38.687 | 3.656 | 36.849 | 2.758 |
| 8 | 44.165 | 1.571 | 42.181 | 3.494 | 40.054 | 3.206 |
| 9 | 46.979 | 2.814 | 45.631 | 3.450 | 44.635 | 4.581 |
| 10 | 49.437 | 2.458 | 49.031 | 3.400 | 49.031 | 4.395 |

Gap between IFRS 17 own funds and Solvency II own funds rises slightly because Solvency II additional investment income on initial commission is slightly lower, - 10 bp due to the assumption about volatility adjustment that is lower than assumption about liquidity premium by - 50 bp

## Variable Fee. P\&L and Balance sheet (1/15)

Line 1: impact of new business on business in force PVFCF

| TRANSITION_NB |  | 238.239 .949 |
| :---: | :---: | :---: |
| 1a_NB_INCEPTION |  | \% |
| 2_0_MUT_ADJ_NB_INCEPTION |  | 238.239.949 |
| 2_1_MUT_EB |  | 240.133.590 |


| delta | premiums | Insurance <br> obligations <br> and expenses | non-distinct investment component | unwinding of opening bottom up interest rate | (change in) interest allocated to policyholders | Change in fair value UIT | change noneco assumptions | Variable Fee | delta CSM | P\&L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.893 .641 |  |  |  |  |  |  |  |  | 1.893 .641 |  |

Comment: this is the "mutualization" defined as marginal effect of the new business on the best estimate of existing portfolio. It's adverse here; however, it's more frequently favour: if so, the increase of CSM is make nil and lent to the new business. Exchange of mutualization is not permitted by IASB at time being.

Line 2: expected changes


Premiums: these are the expected gross premiums
insurance obligations and expenses: these are "insurance" obligations; as such, they are meant as excess of expected claims in respect of deposit held at the opening balance
Non - distinct investment component. it's the opening deposit expected to be released over the period due to the claims.
Unwinding of opening bottom up interest rate: it is the up to date (i.e. unlocked) opening interest rate (composed by a risk - free component and liquidity premium). Since it's negative at FY2018, its impact is a reduction of the PVFCF, i.e. as it were a profit rather than a loss.
It flows in CSM rather than in P\&L, through the Variable Fee

Line 3: real world economic environment


This is the overall impact of replacement of the opening risk - free rates (part of bottom up) with opening real world assumptions for the past 12 years. It's worth noting that real world does not mean "actual" rather opening assumptions according to experience.
This kind of disclosure is not required in IFRS17.
It's a cost so that the variable Fee and the CSM drop down.
However, it is deemed to not generate bias in the measurement of overall variable fee because the remainder economic impacts (see line 7) are measured net of this cost.

## Variable Fee. P\&L and Balance sheet (4/15)

Line 4: effect of changes of non - economic assumptions

| 22_LAPSE_ASSUMP_CHANGE | - | 315.322 .075 |
| :--- | :--- | :--- |
| 23_ASS_MORT_CHANGE | - | 315.322 .075 |
| 24_EXPENSE_CHANGE | - | 315.322 .075 |
| 25a_MVMT_MISC_ASSUMP_CHANGE | - | 304.025 .802 |


11.296.273 11.296.273
11.296 .273

Comment: impact of refresh of non - economic assumptions is a decrease of PVFCF and flows to CSM (increase).
In case GMM were applicable (i.e. not the VFA), the part recognized in CSM would be calculated by using the discount rates and the relevant economic assumptions locked in at inception. The remainder would be recognized to P\&L.

Line 5: experience variance (1/2)


Comment: experience variance contains 3 different factors which should be dealt with separately in IFRS17.
At time being, these factors have been achieved through expert judgement with the help of accounting posting and actuarial disclosure:
Premiums: lower $(€ 37 \mathrm{~m}$ ) than expected ( $€ 89 \mathrm{~m}$ ) by - $€ 52.00 \mathrm{~m}$ whose impact on deposit is $-€ 50.96 \mathrm{~m}$.
The net impact ( $€ 1040 \mathrm{k}$ ) is a potential loss that is recognized in CSM rather than in P\&L.
That's the experience variance on premiums (recurrent and top - ups insofar as they did not meet contract boundary at the opening balance). See Later.
Claims of non - distinct investment component: lower than expected ( $-€ 920 \mathrm{k}=19873-20793$ ) whose impact on deposit $-€ 893 \mathrm{k}$. The potential impact is gain by $€ 27 \mathrm{~m}$ that is recognized in CSM rather than in P\&L as "experience variance deposit". See later

Line 5: experience variance (2/2)


Chande in interest allocated to policyholders: that's the impact of unit pricing (delta NAV) of the face value of units, calculated as difference in respect to the expected delta NAV (which in turn was equal to the bottom up interest rate less the gross management fee).
It's an economic factor; as such, its impact adjusts the CSM via the Variable Fee. Really, its effect is very near the corresponding gross investment income of assets held in units (the unit underlying items). Since the disclosure of gross jnvestment income of underlying items is not required, we don't show separately the net balance of unit linked investment income.
In addition, it allows for the impact of replacement of expected bonus rates (i.e. the opening contribution of next period risk free + liquidity premium expected investment income to the FDB - lower) with actual bonus rates (i.e. the observed valuation of reserves net of financial guarantees - higher).
part of net investment income and, as such, is part of variable fee for a total amount of $€ 44 \mathrm{~m}$.

Line 6: inflation

| 26a_MVMT_FIN_VARIANCE |  | 297.959.065 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 41c_INFLATION |  | 298.616.256 |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |
| delta premiums | Insurance obligations and expenses | non-distinct investment component |  | (change in) interest allocated to policyholders | Change in fair value UIT | change nonassumptions | Variable Fee | delta CSM | P\&L |
| 657.192 |  |  |  |  |  | - 657.192 | - | 657.192 |  |

Comment: change of assumption about future inflation rates have raised the PVFCF of future expenses.
As such, it is treated likewise a change in non - economic assumption, so that it flows in CSM

## Variable Fee. P\&L and Balance sheet (8/15)

Line 7: economic environment

| 41c_INFLATION |  |  |  |  | 298.616.256 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 45_CLOS_RFR |  |  | - |  | 311.470 .995 |  |  |  |  |  |
| 47a_CORPBOND |  |  | - |  | 313.865 .013 |  |  |  |  |  |
| 47b_GOVBOND |  |  | - |  | 319.417.362 |  |  |  |  |  |
| 48_CLOS_VA |  |  | - |  | 331.364.637 |  |  |  |  |  |
| 56_CLOS_CLOSING |  |  | - |  | 331.364.637 |  |  |  |  |  |
|  | / |  |  |  |  |  |  |  |  |  |
| delta | premiums | Insurance obligations and expenses | non-distinct investment component | unwinding of opening bottom up interest rate | (change in) interest allocated to policyholders | Change in fair value UIT | change noneco assumptions | Variable Fee | delta CSM | P\&L |
| 12.854 .738 |  |  |  |  |  |  |  | -12.854.738 | -12.854.738 |  |
| 2.394 .018 |  |  |  |  |  |  |  | - 2.394.018 | - 2.394 .018 |  |
| 5.552.349 |  |  |  |  |  |  |  | - 5.552.349 | - 5.552.349 |  |
| 11.947.275 |  |  |  |  |  |  |  | -11.947.275 | -11.947.275 |  |
| - |  |  |  |  |  |  |  |  |  |  |

Comment:

1. Changes of discount rate entails reduction (lowering) from year end 2018 to year end 2019 and is worth $€ 12.85 \mathrm{~m}$ (increase of PVFCF)
2. Changes of credit spread of government and corporate bonds have increased the expected future discretionary benefits, i.e. the future
bonus rates that in turn are proportional to the future investment income. The increases are, respectively, $€ 5.52 \mathrm{~m}$ and $€ 2.39 \mathrm{~m}$.
The update of liquidity premium has caused an increase of reserves by $€ 11.95 \mathrm{~m}$. Note that is temporary set up equal to the Solvency II
latility Adjustment (VA)
these components adjust the Variable Fee and hence the CSM (reduction of CSM)

Line 8: impacts on P\&L and other impacts on variable fee and on CSM (1/3)


## Comenent:

- Changes in fair value of the underlying items is the main part of gross investment income of financial assets and includes the contribution of both assets held in units and assets backing participating contracts.
A Little part of investment income refers to assets backing portfolio not subject to Variable Fee Approach (e.g. term insurance) and free assets (i.e. backing risk adjustment and S2 SCR). The amount shown here ( $€ 0.8 \mathrm{~m}$ ) relates to only the assets covering this particular HRG' SCR.


## Variable Fee. P\&L and Balance sheet (10/15)

Line 8: impacts on P\&L and other impacts on variable fee and on CSM (2/3)


- Changes in TVOG is defined as difference between the stochastic and the deterministic dynamic PVFCF. It's not appropriately called as stochastic cost of financial guarantees. Really, that is just one component, the other being the delta between the stochastic vs the non - stochastic FDB with an overall implicit contribution of stochastic PHB (dynamic policyholder behaviour) against the dynamic non stochastic run.
- Its investment component is worth $€ 8 \mathrm{~m}$. Since it's an increase of best estimate, the CSM goes down correspondingly through the variable fee
- There's also a residual component, a reduction by $€ 0.3 \mathrm{~m}$, that is recognized as profit This relates to the changes of management actions that in turn have modified the asset mix and the time pattern of future bonus rates.


## Variable Fee. P\&L and Balance sheet (11/15)

Line 8: impacts on P\&L and other impacts on variable fee and on CSM (3/3)


- The experience variance of recurrent premiums (and top - ups of opening business in force) is a potential loss recognized in CSM. It's worth $€ 1.04$ m
The experience variance on deposit is a potential gain recognized in CSM. It's lower than $€ 27 \mathrm{k}$
The experience variance on insurance claims and expenses is in favour by $€ 187.8 \mathrm{k}$ and is recognized in profits and losses
The changes of outstanding claims liabilities are info that will be used in 1 out of 4 schemes of profits and losses shown in the next chapter. It is also used for amending the claims paid into claims incurred for the purpose of analysis of changes


## Variable Fee. P\&L and Balance sheet (12/15)

## Presentation of financial statements

There are at least 4 manners to present profits and losses.
Since they shall land at the same result, 3 of them could be used to validate the main one, for example as FRCF controls and for reconciliations.
The last one is the classic revenue accounting scheme in usage for local GAAP.
All the scheme/uses the info and data disclosed in the first chapter plus

- the risk adjustment
- the expenses incurred which are not in scope of fulfilment cash flows
- the Coverage units at the beginning and at the end of period
impact of changes of non - economic assumptions separately for EPIFP and future expenses and obligations
stemming from past premiums
fransfer of actual premiums from EPIFP to deposit
insurance finance expense split down in (1) investment component, (2) insurance component, (3) EPIFP these data need actuarial implementations (the risk adjustment and coverage units have begun) or accounting anges (ref. expenses).
sVIUPPO INIZIATIVE ATUARIALI


## Presentation of financial statements

IFRS17 Standard Presentation (main scheme)

| Financial Statements - standard presentation |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Revenue | 7.431.735 |  |  |  |
| actual claims | - 208.200 |  |  |  |
| Gross investment income 63.800 .000 |  |  |  |  |
| Insurance finance expense | - 63.000.000 | Revenue | 7.431.735 |  |
| Dac amortization | - 200.000 | CSM release | 5.105.735 |  |
| Change of non-economic assumptions | 5 - | Change of risk adjustment | 1.500.000 |  |
| Tot P\&L | 7.823.535 | Change in DAC | 200.000 |  |
| Check | OK | Expected insurance claims | 626.000 |  |
| 7 | CSM |  |  |  |
|  | opening | 90.000.000 |  |  |
|  | change in non - eco assumptions | 10.639.081 |  |  |
|  |  |  | Actual Claims | 208.200 |
|  |  |  | Actual claims and expenses | 438.200 |
|  |  |  | Stochastic valuations other than economic | 300.000 |
|  | mutualization | - 1.893 .641 |  |  |
|  | experience variance on premium | ms - 1.040 .000 |  |  |
|  | experience variance on deposit | 26.798 | Marketing and other expenses not in scope |  |
|  | variable fee | - 29.655.776 | of PVFCF | 70.000 |
|  | tot changes | - 21.923.537 |  |  |
|  | coverage units opening | 20,00 |  |  |
|  | coverage units closing | 18,50 |  |  |
|  | CSM release | - 5.105.735 |  |  |
|  | closing | 62.970.728 |  |  |

## Variable Fee. P\&L and Balance sheet (14/15)

## Presentation of financial statements

| Actuarial Best Estimate (PVFCF) | IFRS17 | Solvency 2 |
| :---: | :---: | :---: |
| PVFCF opening | 250.239.949 | 250.939.949 |
| Insurance best estimate | 30.000.000 |  |
| EPIFP | 23.000.000 | 23.000.000 |
| Non - distinct investment component | 231.239.949 |  |
| TVOG | 12.000.000 | 12.000.000 |
| best estimate future obligations |  | 261.939.949 |
| PV future expenses not in scope | 800.000 | 100.000 |
| PVFCF closing | 339.364 .637 | 340.004.637 |
| Insurance best estimate | 25.648.559 |  |
| insurance finance expense | 20.000 |  |
| change non-eco assumptions | - 3.745 .441 |  |
| expected outflows release | - 626.000 |  |
| outflows from expected renewal premiums | - |  |
| EPIFP | - 25.450.000 | 25.450 .000 |
| insurance finance expense | 50.000 |  |
| change non - eco assumptions | - 5.000.000 |  |
| expected release | 2.500 .000 |  |


| Non - distinct investment component | 331.166 .078 |  |
| :---: | :---: | :---: |
| insurance finance expense | 84.285.776 |  |
| expected release | - 20.792.911 |  |
| expected premium contribution | 86.500.000 |  |
| expected cash inflows | 89.000.000 |  |
| profits | - 2.500.000 |  |
| experience variance | - 50.066.737 |  |
| opening deposit | 893.263 |  |
| premium contribution | - 50.960.000 |  |
| TVOG | 20.000.000 | 20.000.000 |
| insurance finance expense | 8.300.000 |  |
| other | - 300.000 |  |
| best estimate future obligations |  | 345.454 .637 |
| PV future expenses not in scope | 730.000 | 90.000 |
| Check | 351.364 .637 |  |
| Prophet PVFCF | 351.364.637 |  |
| Check outcome | OK |  |

## Variable Fee. P\&L and Balance sheet (15/15)

## Presentation of financial statements

| Profit \& Losses - alternative 1 presentation |  | sign of P\&L <br> impact | Impact on <br> P\&L |  |
| :--- | :---: | :---: | :---: | :---: |
| Expected claims and expenses | 626.000 |  | 1 | 626.000 |
| Actual claims and expenses | 438.200 |  | $-1-$ | 438.200 |
| Stochastic valuations other than economic | 300.000 |  | 1 | 300.000 |
| Marketing and other expenses not in scope of |  |  |  |  |
| PVFCF | 70.000 | - | $-1-$ | 70.000 |
| Change on non - economic assumptions | - | 1 | - |  |
| Gross investment income | 63.800 .000 |  | 1 | 63.800 .000 |
| from the underlying items | 63.000 .000 |  | - |  |
| from other financial assets | 800.000 |  | - |  |
| Insurance finance expense | 63.000 .000 | $-1-63.000 .000$ |  |  |
| from PVFCF | 92.655 .776 |  | - |  |
| from risk adjustment |  | 0 |  | - |
| variable fee | -29.655 .776 |  | - |  |
| Change in risk adjustment | -1.500 .000 | -1 | 1.500 .000 |  |
| CSM release | -5.105 .735 | -1 | 5.105 .735 |  |
| Tot P\&L |  |  | $\mathbf{7 . 8 2 3 . 5 3 5}$ |  | 7.823.535


| Profit \& Losses - alternative 2 presentation |  | P\&L sign | Profit (Loss) |
| :--- | ---: | ---: | ---: |
| Revenue | 7.431 .735 | 1 | 7.431 .735 |
| Change of deposit | 99.926 .128 | $-1-99.926 .128$ |  |
| [actual] Premium contribution | 35.540 .000 | 1 | 35.540 .000 |
| [actual] Claim contribution | 20.337 .848 | $-1-20.337 .848$ |  |
| Gross Investment Income | 63.800 .000 | 1 | 63.800 .000 |
| Insurance Finance expense (excluding deposit) | -21.285 .776 | -1 | 21.285 .776 |
| Change of DAC | -200.000 | $1-$ | 200.000 |
| Stochastic valuations other than economic | 300.000 | 1 | 300.000 |
| Marketing and other expenses not in scope of | 70.000 |  |  |
| PVFCF | 0 | $-1-$ | 70.000 |
| Change of non - economic assumptions |  | 1 | - |
| Tot P\&L |  |  | 7.823 .535 |


| Profit \& Losses - alternative 3 presentation | REVENUE ACCOUNTING | P\&L sign | Profit (Loss) |
| :---: | :---: | :---: | :---: |
| Change of Technical Provisions | 73.795.416 | -1- | 73.795.416 |
| PVFCF | 101.124.688 |  |  |
| Risk Adjustment | - 1.500.000 |  |  |
| CSM | - 27.029.272 |  |  |
| Outstanding claims | 1.200 .000 |  |  |
| Premium income | 37.000 .000 | 1 | 37.000 .000 |
| Actual claims (including from deposit) | 19.111.050 | -1 - | 19.111.050 |
| Gross Investment Income | 63.800 .000 | 1 | 63.800 .000 |
| Change of DAC assets | - | 1 | - |
| Marketing and other expenses not in scope of |  |  |  |
| PVFCF | 70.000 | -1 - | 70.000 |
| Tot P\&L |  |  | 7.823 .535 |

