

Continue



























IAS 1 Presentation of Financial Statements IAS 1: Classification of Assets and Liabilities as Current and Non-Current IAS 2 Inventories: Scope, Definitions and Disclosure IAS 2 Inventories: Cost of Inventories IAS 2 Inventories: Cost Formulas (FIFO, LIFO and Weighted Average Cost) IAS 2 Inventories: Net Realisable Value (NRV) IAS 7 Statement of Cash Flows IAS 8: Accounting Policies IAS 8: Accounting Estimates IAS 8: Accounting Errors Materiality in IFRS Standards and Financial Reporting IAS 10 Events after the Reporting Period IAS 12 Income Taxes: Scope IAS 12 Income Taxes: Deferred Tax IAS 12 Income Taxes: Current Tax IAS 16 Property, Plant and Equipment: Scope, Definitions and Disclosure IAS 16 Property, Plant and Equipment: Cost of Property, Plant and Equipment IAS 16 and IAS 38: Depreciation and Amortisation of Property, Plant and Equipment and Intangible Assets IAS 16 and IAS 38: Revaluation Model for Property Plant and Equipment and Intangible Assets IAS 19 Employee Benefits IAS 20 Accounting for Government Grants and Disclosure of Government Assistance IAS 21 The Effects of Changes in Foreign Exchange Rates IAS 23 Borrowing Costs IAS 24 Related Party Disclosures Accounting for Intra-Group Transactions in Separate Financial Statements IAS 27 Separate Financial Statements IAS 28 Associates and Significant Influence IAS 28: Equity Method IAS 32: Scope IAS 32: Financial Instruments: Definitions IAS 32: Financial Liabilities vs IFRS 9 IAS 32: Offsetting of Financial Instruments IAS 34 Interim Financial Reporting IAS 36: Impairment Framework for Non-Financial Assets IAS 36: Cash-Generating Units (CGUs) IAS 36: Value in Use as the Recoverable Amount IAS 36: Impairment of Assets – Disclosure IAS 37 Provisions IAS 37 Contingent Assets and Contingent Liabilities IAS 38 Intangible Assets: Scope, Definitions and Disclosure IAS 38 Intangible Assets: Recognition and Cost of Intangible Assets IAS 38 and IAS 16: Depreciation and Amortisation of Property, Plant and Equipment and Intangible Assets IAS 38 and IAS 16: Revaluation Model for Property Plant and Equipment and Intangible Assets IAS 40 Investment Property IFRS 2 Share-based Payment IFRS 3 Business Combinations: Scope of IFRS 3 IFRS 3 Business Combinations: Accounting for Business Combinations IFRS 3 Business Combinations: Disclosure Requirements for Business Combinations IFRS 5: Assets Held for Sale IFRS 5: Discontinued Operations IFRS 7 Financial Instruments: Disclosures IFRS 8 Operating Segments IFRS 9 Financial Instruments: Scope and Initial Recognition IFRS 9 Financial Instruments: Classification of Financial Assets and Financial Liabilities IFRS 9 Financial Instruments: Derivatives and Embedded Derivatives: Definitions and Characteristics IFRS 9 Financial Instruments: Measurement IFRS 9 Financial Instruments: Amortised Cost and Effective Interest Rate IFRS 9 Financial Instruments: Impairment IFRS 9 Financial Instruments: Derecognition of Financial Assets IFRS 9 Financial Instruments: Derecognition of Financial Liabilities IFRS 9 Financial Instruments: Factoring IFRS 9 Financial Instruments: Interest-Free Loans or Loans at Below-Market Interest Rate IFRS 9 Financial Instruments: Hedge Accounting IFRS 10 Consolidated Financial Statements IFRS 11 Joint Arrangements IFRS 12 Disclosure of Interests in Other Entities IFRS 13: Scope and Disclosure Requirements IFRS 13: Fair Value Framework IFRS 13: Fair Value of Non-Financial Assets IFRS 13: Fair Value of Liabilities and Own Equity IFRS 13: Valuation Techniques IFRS 15 Revenue from Contracts with Customers: Identifying a Contract IFRS 15 Revenue from Contracts with Customers: Performance Obligations and Timing of Revenue Recognition IFRS 15 Revenue from Contracts with Customers: Contract Modifications IFRS 15 Revenue from Contracts with Customers: Transaction Price IFRS 15 Revenue from Contracts with Customers: Principal vs Agent, or Reporting Revenue Gross vs Net IFRS 15 Revenue from Contracts with Customers: Revenue from Licensing of Intellectual Property IFRS 15 Revenue from Contracts with Customers: Revenue from Customers' Unexercised Rights (Breakage) IFRS 15 Revenue from Contracts with Customers: Customer Loyalty Programmes and Other Options for Additional Goods or Services IFRS 15 Revenue from Contracts with Customers: Warranties IFRS 15 Revenue from Contracts with Customers: Contract Assets and Contract Liabilities IFRS 15 Revenue from Contracts with Customers: Contract Costs IFRS 15 Revenue from Contracts with Customers: Disclosure IFRS 16 Leases: Identifying a Lease IFRS 16 Leases: Lease Term IFRS 16 Leases: Recognition and Measurement of Leases IFRS 16 Leases: Lease Modifications IFRS 16 Leases: Sale and Leaseback Transactions IFRS 16 Leases: Presentation and Disclosure IFRS 16 Leases: Lessor Accounting IFRS 16 Leases: Transition from IAS 17 to IFRS 16 Index of IFRS Calculation Examples with an Illustrative Excel File About IFRS 0 ratings0% found this document useful (0 votes)18 viewsThe document provides an example of calculating lifetime Expected Credit Loss (ECL) for trade receivables using a provision matrix. It details the ageing of receivables and the corresponding...SaveSave Ifrs 9 Example Lifetime ECL Trade Receivables Prev... For Later0%0% found this document useful, undefined IFRS 9 allows an operational simplification whereby entities can use a provision matrix to determine their ECL under the impairment model. A provision matrix method uses past and forward information to estimate the probability of default of lease and trade receivables. View image Step 1 The first step, when using a provision matrix, is to define an appropriate period to analyse the proportion of lease and trade receivables written off as bad debts. This period should be sufficient to provide useful information. too short might result in information that is not meaningful, while too long might mean that changes in market conditions or the tenant base make the analysis no longer valid. In the example below, a period of one year has been selected, with a focus on lease receivables. The overall lease receivables were C10,000 and the receivables ultimately written off were C300 in that period. Bad debts written off out of this lease income Step 2 In step 2, the amount of receivables outstanding at the end of each time bucket is determined, up until the point at which the bad debt is written off. The ageing profile calculated in this step is critical for the next step, when calculating default rate percentages. Ageing profile of lease income (step 3) Paid between 30 and 60 days Paid between 60 and 90 days Step 3 In this step, the entity calculates the historical default rate percentage. The default rate for each bucket is the quotient of the defaulted receivables at each bucket over the outstanding lease income for that period. For example, in the above information, C300 out of the C10,000 lease income for the period was written off. Current lease income: historical rate of default Since all of the receivables relating to the lease income for the period and those written off were current at some stage, it can be derived that, for all current amounts, the entity might incur an eventual loss of C300. The default rate would therefore be 3% (C300/C10,000) for all current amounts. Lease income outstanding after 30 days An amount of C8,000 was not paid within 30 days. An eventual loss of C300 was a result of these outstanding receivables. Therefore, the default rate for amounts outstanding after 30 days would be 3.75%. Remaining buckets The same calculation is then performed for 60 days and after 90 days. Although the amount outstanding reduces for each subsequent period, the eventual loss of C300 was, at some stage, part of the population within each of the time buckets, and so it is applied consistently in the calculation of each of the time bucket default rates. The historical default rates are determined as follows: Lease payments outstanding after 30 daysLease payments outstanding after 60 daysLease payments outstanding after 90 days Ageing profile of lease income (1) Default rate: (2)/(1) (%) Step 4 IFRS 9 is an ECL model, so consideration should also be given to forward-looking information. Such forward-looking information would include: changes in economic, regulatory, technological and environmental factors (such as industry outlook, GDP, employment and politics), external market indicators; and tenant base. For example, the entity concludes that the defaulted receivables should be adjusted by C100 to C400 as a result of increased retail entity failures, given that its tenant base is primarily retail focused. The entity also concludes that the payment profile and amount of lease income are the same. Each entity should make its own assumption of forward-looking information. The provision matrix should be updated accordingly. The default rates are then recalculated for the various time buckets, based on the expected future losses. Lease payments outstanding after 30 daysLease payments outstanding after 60 daysLease payments outstanding after 90 days Ageing profile of lease income (1) Default rate: (2)/(1) (%) Step 5 Finally, take the default rates from step 4 and apply them to the actual receivables, at the period end, for each of the time buckets. There is a credit loss of C12 in the example illustrated. Lease payments outstanding after 30 daysLease payments outstanding after 60 daysLease payments outstanding after 90 days Lease receivable balances at year end: (1) Expected credit loss: (1) x (2) Since IFRS 9 replaced IAS 39, entities have been getting to grips with new reporting requirements. We look at the methods and considerations along the way. For a financial asset, the expected credit loss (ECL) is the difference between the contractual cash flows that are due to an entity and the cash flows that an entity expects to receive. The calculation of ECLs applies to financial assets that are measured under amortised cost or at fair value through other comprehensive income. These assets may be in the form of loans, debt securities or trade receivables. Financial assets vary from entity to entity depending on the nature of the business and the products they provide. Some entities offer loan products that are long-term in nature and some may be secured on collateral. This is common for banks and consumer lending companies. In other entities, such as manufacturing and retail companies, their most common financial asset may be trade receivables. These are amounts billed by companies to customers upon delivery of goods or services and are usually due within 12 months. With these different types and characteristics of financial assets, there is the question 'How should entities calculate the ECLs for each type?' IFRS 9 permits two approaches: the general approach and the simplified approach. The general approach is complex. It usually involves, among other things, calculation of the probability of default, considering whether there have been significant increases in credit risk, and forward-looking macro-economic information. The simplified approach involves the calculation of historical loss rates. The general approach is used by banks and other financial institutions that have longer-term financial assets. There are three functions that need to be considered: Exposure at default (EAD). This is the amount of principal to which the calculated probability of default rate and the loss given default rate is applied. A repayment rate is calculated based on an historic analysis of repayments in the period to default. EAD = The principal amount outstanding x (1 - the calculated repayment rate in the period to default). Probability of default (PD). This is an estimate of the likelihood of default over a given period. PD is determined based on the historical loss experience of an entity. This historic PD is then adjusted by a factor, determined by reviewing the historic relationship between key economic parameters such as GDP and unemployment and PD. Forward-looking macro-economic information relating to, say, future GDP and/or unemployment is then considered and the calculated historical PD is adjusted. Loss given default (LGD). This is an adjustment to the ECL calculation for post-default recoveries. These can be in the form of cash repayments, proceeds from the realisation of security or sale of the debt to a third party. The LGD is based on an analysis of historical post-default recoveries. LGD = 1 - the post-default recovery rate. Once the three functions are determined, the ECL is calculated as EAD x PD x LGD. The calculation can be either for 12 months or based on the lifetime of the financial asset. This depends on whether there has been a significant increase in credit risk since the date of initial recognition. The credit loss that is calculated on a 12-month basis involves analysis of historical credit losses over 12 months. But the credit loss calculated over the lifetime of the financial asset is derived from the life of the asset. The PD calculated on a lifetime basis will be higher than the PD calculated over 12 months. As such, the lifetime ECL will be higher than the 12-month ECL. Under IFRS 9, there are three stages of credit risk. Under each stage there is a different prescribed method of calculating the ECL (by using PDs calculated over different periods - 12 months or over the entire life of the financial asset) and recognising interest income: Credit risk - Stage 1. There is no significant increase in credit risk from initial recognition. Only the ECLs within 12 months of a reporting date are calculated. Interest income is calculated on the gross carrying amount of the financial asset. Credit risk - Stage 2. There is a significant increase in credit risk from initial recognition. ECLs over the lifetime of the financial asset must be recognised. Interest income is calculated on the gross carrying amount of the financial asset. Under IFRS 9, there is a rebuttable presumption that there is a significant increase in credit risk if a contractual repayment is more than 30 days past its due date. Credit risk - Stage 3. This is where the financial asset has become credit impaired: the point when there is objective evidence of impairment as defined under IAS 39 (the predecessor to IFRS 9). Examples might include evidence of significant financial difficulty of the debtor, or default. In terms of the ECL, like credit risk Stage 2, these are recognised on a lifetime basis. Interest income, however, is recognised on the net carrying amount (the gross amount of the financial asset, less the calculated impairment). Let's consider an example. Company A has a two-year loan receivable from a customer with a gross carrying amount of £2 million and interest rate of 1% per annum payable in two annual instalments. At a reporting date, Company A has assessed that there has been no significant increase in credit risk from initial recognition. The loan is therefore classified in terms of credit risk under Stage 1. The PD within 12 months has been calculated based on historical data at 2% and LGD is also calculated based on historical data at 5%. The calculated ECL is £50k. The calculation of ECLs are discounted to the reporting date applying the effective interest rate used at recognition. So, in the above example, the calculated ECL of £1,010 is discounted to £1,000. If, at the reporting date, Company A has assessed that the loan has suffered a significant increase in credit risk from initial recognition, the loan would be classified in terms of credit risk under Stage 2. The following calculation assumes that the PD for loans in Stage 2 within the first 12 months has been calculated based on historical experience at 5%, and then 10% in the second 12 months; and that through a historical analysis of post-default recoveries of loans in Stage 2, the Company has calculated an LGD of 20% in the first 12 months and then 30% for the second 12 months. In this case, with the loan in credit risk Stage 2, the ECL recognised in the financial statements of Company A would be on a lifetime basis, which in this case is two years. The total ECL charge in the profit and loss account would then be £39,703. Some entities - those with trade receivables, contract assets and lease receivables - do not calculate the PD and LGD separately, but instead use a loss rate approach. This is known as the simplified approach under IFRS 9. For trade receivables that do not contain a significant financing component, the loss allowance should be measured as equivalent to lifetime ECLs. This is because they are very short-term in nature and are usually due within 12 months. So the 12-month ECL and lifetime ECL would be the same. For trade receivables or contract assets which do contain a significant financing component, and for lease receivables, the entity can choose between the simplified approach and the general approach. The loss rate approach allows the use of a provision matrix adjusted for current conditions and future expectations, based on available forward-looking information. The default rates in the provision matrix should be calculated by segmenting the loan portfolio into appropriate groupings, based on shared credit characteristics. A provision matrix is simply a table that analyses the trade receivables into groupings and applies a calculated loss rate to each one. The groupings can be by product type, which can be sub-analysed into geographic regions. These groups are then, finally, split into aged headings. Here is an example of a possible provision matrix. IFRS 9 does not provide any specific guidance on how to calculate loss rates. Let's look at one method. It involves collecting historical data over a period in relation to sales, and losses suffered on those sales. Let's assume for Company B that the historical period over which data was collected is three years. The total sales in that period amounted to £3 million and the total losses (sales not paid and written-off) suffered on those sales amounted to £150,000. To determine the loss rate, the sales receipts are observed moving through different ageing groupings, to determine a loss rate for each grouping as follows: Later than 90 days overdue Under IFRS 9, an entity must incorporate forward-looking information into the calculated historical loss rates. This adjustment involves judgment and may be complex. But let's assume that, through statistical analysis of historical data, the unemployment rate has a strong direct relationship with Company B's loss rates. Let's say that economists in the country of Company B have forecast unemployment rates to increase from 3% to 5% and Company B's experience (derived from historical analysis) is that when unemployment increases by 2%, the losses increase by 5%. We are applying a 4% increase (the mid-range of the economic forecast) to the above example (a 4% increase in unemployment would lead to a 10% increase in the loss rate). Thus, the historical loss rates for Company B are adjusted by forward-looking information as follows: Later than 90 days overdue Now that Company B has derived the adjusted loss rates, these rates can be applied to the outstanding balances of trade receivables to determine the ECL for the current period. Later than 90 days overdue In practice, there is unlikely to be any strong relationship between future macro-economic indicators and loss rates for trade receivables. This is because of the short-term nature of such receivables compared to the longer-term nature of economic forecasts. But companies need to consider the relationship between the loss rates and future macro-economic indicators to comply with IFRS 9. Remember that there is no single method prescribed by IFRS 9 when calculating ECLs. But under IFRS 9 the measurement of ECLs must reflect an unbiased and probability-weighted outcome: the time value of money, and reasonable and supportable information that is available without undue cost or effort. 0 ratings0% found this document useful (0 votes)172 viewsThe document provides an example calculation of lifetime expected credit losses (ECL) for trade receivables using a provision matrix, as required under IFRS 9. It shows the calculation of 1. AI-enhanced title and descriptionSaveSave CALCULATION AS PER IFRS 09.xlssx For Later0%0% found this document useful, undefined Last update: 2023 If you have a large portfolio of trade receivables, then you face the same issue over and over again: How to calculate bad debt provision to these receivables? When I worked as an auditor, I used to discuss this issue with my colleagues very frequently. Everyone of them agreed that yes, there is always some bad debt hidden among "healthy" receivables and it's necessary to recognize some provision for that. However, everyone had a different opinion on how to do it. The most common approach was, to my surprise and disagreement, to create a provision in a few steps: Analyze receivables at the reporting date and sort them according to their aging structure Apply certain percentages of provision to the individual aging groups Sounds easy, right? In most cases, auditors applied something like 2% to trade receivables within maturity, 10% to trade receivables where I was 1-30 days overdue... 100% to receivables more than 360 days overdue. It always amazed me. How the hell do you know that this particular company will suffer 10% credit loss on receivables that are 1-30 days overdue??? For me, it always seemed that these numbers were made out of thin air. It was long time before IFRS 9 was adopted. Now, luckily, IFRS 9 tells us how to create bad debt provision for trade receivables and how to get these percentages. In this article, I'd like to explain this methodology and illustrate it on a simple example. What do the rules in IFRS 9 say? IFRS 9 requires you to recognize the impairment of financial assets in the amount of expected credit loss. In fact, there are 2 approaches for doing so: General approach In general approach, there are 3 stages of a financial asset and you should recognize the impairment loss depending on the stage of a financial asset in question. Thus, the impairment loss is either in the amount of a 12-month expected credit loss (ECL) or a lifetime expected credit loss (ECL).You can read more about the general approach here. There are a lot of implementation troubles and challenges, for example: How do you determine in which stage the financial asset is? How do you determine when the credit risk in some financial asset has significantly increased? How do you calculate 12-month ECL and lifetime ECL? How do you get and update your inputs into the ECL calculations? Therefore, IFRS 9 permits an alternative for some type of financial assets: Simplified approach In simplified approach, you don't have to determine the stage of a financial asset because the impairment loss is measured at lifetime ECL for all assets. This is great news because lots of troubles simply disappear. However, let me warn you that the simplified approach is not for everybody and even if it's simplified, you still need to make some calculations and effort. Who can apply simplified approach? OK, that's not the best question in the world, because everybody can apply simplified approach. Type of financial asset is more important here. Special For You! Have you already checked out the IFRS Kit ? It's a full IFRS learning package with more than 40 hours of private video tutorials, more than 140 IFRS case studies solved in Excel, more than 180 pages of handouts and many bonuses included. If you take action today and subscribe to the IFRS Kit, you'll get it at discount! Click here to check it out! You have to apply simplified approach for: Trade receivables WITHOUT significant financing component, and Contract assets under IFRS 15 WITHOUT significant financing component For these two types of assets you have no choice - just apply simplified approach. On top of that, you can make a choice for: Trade receivables WITH significant financing component, Contract assets under IFRS 15 WITH significant financing component, and Lease receivables (IAS 17 or IFRS 16) For these three types of financial assets, you can apply either simplified approach or general approach. Can one entity apply both models? Yes, of course - but not to the same type of financial asset. Take a bank, for example. Banks usually provide lots of loans and under IFRS 9, they have to apply general methods to calculate impairment loss for loans. But occasionally, banks can have other financial assets, too. For example, they may rent redundant offices and have lease receivables. Or, they can provide advisory services and charge fees for that - thus they can have typical trade receivables. For these types of assets, the same bank can apply simplified approach. How to apply simplified approach? As written above, under simplified approach, you measure impairment loss as lifetime expected credit loss. IFRS 9 permits using a few practical expedients and one of them is a provision matrix. What is a provision matrix? Simply said, it is a calculation of the impairment loss based on the default rate percentage applied to the group of financial assets. Here, we have 2 important elements: Group of financial assets Default rates Let's break it down. How to group the financial assets? When you are using provision matrix for simplification, you still need to be as close to reality as possible. Therefore, before applying any loss rates, you should group your financial assets first. Segment them. The reason is that all trade receivables do not necessarily share the same characteristics and therefore, it would not be reasonable to put them into the same pocket. How to group them? It depends on what factors affect the repayment of your receivables. Maybe you noted that your retail customers (individuals) are less reliable and slower in payments than your business customers (companies). Therefore, your segments or groups would naturally be retail customers and business customers. Or, maybe you sell in a few geographical regions and you noted that customers from the capital city pay more reliably than customers in the rural areas (maybe it has something to do with unemployment rate...). So, your segments would be customers from cities and customers from countryside. I think you get the point - you should select the grouping of your trade receivables (or other financial assets in questions) depending on your circumstances. Just a few suggestions for segmenting: By product type; By geographical region; By currency; By customer rating; By dealer type or sales channel; etc. The important point here is that the customers within one group should have the same or similar loss patterns. How to get the default rates? Remember - do NOT just trump the default rates up, just like auditors from the intro of this article. You should really calculate them based on your own data. IFRS 9 says that you should: Derive the default rates from your own historical credit loss experience; and Adjust them for forward-looking information. Historical default rates First, you need to analyze the historical credit losses. How? You should take the appropriate period of time and analyze which portion of its trade receivables created during that period went default. Just be careful when selecting the appropriate period. It should not be too short in order to make sense and it also should not be too long because market changes quickly and long period might incorporate market effects that are no longer valid. I recommend selecting one or two years. Then you are going to select the time buckets, or periods when the receivables were paid. Finally, you would calculate the default rate for each bucket. No worries if this seems too unclear - you can find the illustrative example below. Forward-looking information Once you have your historical default rates, you need to adjust them by the forward-looking information. What is it? Special For You! Have you already checked out the IFRS Kit ? It's a full IFRS learning package with more than 40 hours of private video tutorials, more than 140 IFRS case studies solved in Excel, more than 180 pages of handouts and many bonuses included. If you take action today and subscribe to the IFRS Kit, you'll get it at discount! Click here to check it out! They are all information that could affect the credit losses in the future, for example macroeconomic forecasts of unemployment, housing prices, etc. You should adjust historical default rates for the information that is relevant for your financial assets. For example, let's say the telecom company has 2 segments of receivables: Retail customers, or individuals and for this group, unemployment rates are important factor affecting the payment rate. If unemployment goes up, the credit quality of trade receivables to retail customers worsens. Business customers: for this group, GDP (gross domestic product) and inflation rate are important factors in this particular country. How to incorporate the forward-looking information? When there is a linear relationship between the macroeconomic factor (i.e. unemployment rate) and the input (i.e. increase/decrease in collection of receivables), then the incorporation is quite simple. In this case, you need to observe what effect has the change in the parameter on your default rates. For example, when the unemployment rate increases, how does it affect the loss rates? Let's take the example of retail customers. At the original period, let's apply the loss rates to actual portfolio of trade receivables as of 31 December 20X1. Days after issuing invoices Amounts outstanding Loss rate Expected credit loss Within maturity (0-30 days) 500 2.5% 12.50 31-60 days 500 4.0% 20.00 61-180 days 500 8.8% 44.00 180-360 days 500 18.3% > 360 days 500 100.0% Note: Default rate = loss divided by the unpaid amount. Here you might note that data shifted a bit. Unpaid amount for "within maturity" row amounting to CU 12 500 is now in the "31-60 days" row. That's OK because we are calculating amounts that fell into certain time bucket - that is, in the beginning of that bucket, not at its end. So, in "within maturity" bucket, ABC created CU 20 000 of trade receivables; in "31-60 days" bucket, ABC created CU 12 500, etc. Also, why did we apply the loss of CU 500 to all buckets? The reason is that all receivables that were written off (CU 500) were in each stage over their life. For example, all written off receivables amounting to CU 500 were current (within maturity), or within those CU 20 000 and therefore we can say that the loss generated during 20X0 (tested period) is 500/20 000. The same applies for any other time bucket. Now, we are not done yet. We have only calculated the historical loss or default rates. We still need to incorporate the forward-looking information. Step 3: Incorporate forward-looking information This is more difficult, but let me just outline one very simple approach. Let's say that ABC's credit losses show almost linear relationship with unemployment rates. Please note that "unemployment rate" is NOT a prescription for you - you should find your own macroeconomic factors that could affect your credit losses. And, let's say that the statistical office in ABC's country assumes that unemployment rate will go up from 5% to 6% in 20X2. ABC's experience is that when unemployment rate increases by 1%, it triggers the increase in default losses by 10% (note - you should be able to prove that). Therefore, ABC may reasonably assume that the loss of CU 500 can increase by 10% because of the increase in the unemployment rate - that is, to CU 550. Thus, the calculation of loss (default) rates adjusted by forward-looking information is as follows: When paid? Unpaid amount Loss Default rate Within maturity (0-30 days) 20 000 550 2.75% 31-60 days 12 500 550 4.40% 61-180 days 7 500 550 7.44% 180-360 days 5 500 550 18.18% > 360 days 5 500 550 100.00% Note: Default rate = loss divided by the unpaid amount. Here you might note that data shifted a bit. Unpaid amount for "within maturity" row amounting to CU 12 500 is now in the "31-60 days" row. That's OK because we are calculating amounts that fell into certain time bucket - that is, in the beginning of that bucket, not at its end. So, in "within maturity" bucket, ABC created CU 20 000 of trade receivables; in "31-60 days" bucket, ABC created CU 12 500, etc. Also, why did we apply the loss of CU 500 to all buckets? The reason is that all receivables that were written off (CU 500) were in each stage over their life. For example, all written off receivables amounting to CU 500 were current (within maturity), or within those CU 20 000 and therefore we can say that the loss generated during 20X0 (tested period) is 500/20 000. The same applies for any other time bucket. Now, we are not done yet. We have only calculated the historical loss or default rates. We still need to incorporate the forward-looking information. Step 3: Incorporate forward-looking information This is more difficult, but let me just outline one very simple approach. Let's say that ABC's credit losses show almost linear relationship with unemployment rates. Please note that "unemployment rate" is NOT a prescription for you - you should find your own macroeconomic factors that could affect your credit losses. And, let's say that the statistical office in ABC's country assumes that unemployment rate will go up from 5% to 6% in 20X2. ABC's experience is that when unemployment rate increases by 1%, it triggers the increase in default losses by 10% (note - you should be able to prove that). Therefore, ABC may reasonably assume that the loss of CU 500 can increase by 10% because of the increase in the unemployment rate - that is, to CU 550. Thus, the calculation of loss (default) rates adjusted by forward-looking information is as follows: When paid? Unpaid amount Loss Default rate Within maturity (0-30 days) 20 000 550 2.75% 31-60 days 12 500 550 4.40% 61-180 days 7 500 550 7.44% 180-360 days 5 500 550 18.18% > 360 days 5 500 550 100.00% Note: Default rate = loss divided by the unpaid amount. Here you might note that data shifted a bit. Unpaid amount for "within maturity" row amounting to CU 12 500 is now in the "31-60 days" row. That's OK because we are calculating amounts that fell into certain time bucket - that is, in the beginning of that bucket, not at its end. So, in "within maturity" bucket, ABC created CU 20 000 of trade receivables; in "31-60 days" bucket, ABC created CU 12 500, etc. Also, why did we apply the loss of CU 500 to all buckets? The reason is that all receivables that were written off (CU 500) were in each stage over their life. For example, all written off receivables amounting to CU 500 were current (within maturity), or within those CU 20 000 and therefore we can say that the loss generated during 20X0 (tested period) is 500/20 000. The same applies for any other time bucket. Now, we are not done yet. We have only calculated the historical loss or default rates. We still need to incorporate the forward-looking information. Step 3: Incorporate forward-looking information This is more difficult, but let me just outline one very simple approach. Let's say that ABC's credit losses show almost linear relationship with unemployment rates. Please note that "unemployment rate" is NOT a prescription for you - you should find your own macroeconomic factors that could affect your credit losses. And, let's say that the statistical office in ABC's country assumes that unemployment rate will go up from 5% to 6% in 20X2. ABC's experience is that when unemployment rate increases by 1%, it triggers the increase in default losses by 10% (note - you should be able to prove that). Therefore, ABC may reasonably assume that the loss of CU 500 can increase by 10% because of the increase in the unemployment rate - that is, to CU 550. Thus, the calculation of loss (default) rates adjusted by forward-looking information is as follows: When paid? Unpaid amount Loss Default rate Within maturity (0-30 days) 20 000 550 2.75% 31-60 days 12 500 550 4.40% 61-180 days 7 500 550 7.44% 180-360 days 5 500 550 18.18% > 360 days 5 500 550 100.00% Note: Default rate = loss divided by the unpaid amount. Here you might note that data shifted a bit. Unpaid amount for "within maturity" row amounting to CU 12 500 is now in the "31-60 days" row. That's OK because we are calculating amounts that fell into certain time bucket - that is, in the beginning of that bucket, not at its end. So, in "within maturity" bucket, ABC created CU 20 000 of trade receivables; in "31-60 days" bucket, ABC created CU 12 500, etc. Also, why did we apply the loss of CU 500 to all buckets? The reason is that all receivables that were written off (CU 500) were in each stage over their life. For example, all written off receivables amounting to CU 500 were current (within maturity), or within those CU 20 000 and therefore we can say that the loss generated during 20X0 (tested period) is 500/20 000. The same applies for any other time bucket. Now, we are not done yet. We have only calculated the historical loss or default rates. We still need to incorporate the forward-looking information. Step 3: Incorporate forward-looking information This is more difficult, but let me just outline one very simple approach. Let's say that ABC's credit losses show almost linear relationship with unemployment rates. Please note that "unemployment rate" is NOT a prescription for you - you should find your own macroeconomic factors that could affect your credit losses. And, let's say that the statistical office in ABC's country assumes that unemployment rate will go up from 5% to 6% in 20X2. ABC's experience is that when unemployment rate increases by 1%, it triggers the increase in default losses by 10% (note - you should be able to prove that). Therefore, ABC may reasonably assume that the loss of CU 500 can increase by 10% because of the increase in the unemployment rate - that is, to CU 550. Thus, the calculation of loss (default) rates adjusted by forward-looking information is as follows: When paid? Unpaid amount Loss Default rate Within maturity (0-30 days) 20 000 550 2.75% 31-60 days 12 500 550 4.40% 61-180 days 7 500 550 7.44% 180-360 days 5 500 550 18.18% > 360 days 5 500 550 100.00% Note: Default rate = loss divided by the unpaid amount. Here you might note that data shifted a bit. Unpaid amount for "within maturity" row amounting to CU 12 500 is now in the "31-60 days" row. That's OK because we are calculating amounts that fell into certain time bucket - that is, in the beginning of that bucket, not at its end. So, in "within maturity" bucket, ABC created CU 20 000 of trade receivables; in "31-60 days" bucket, ABC created CU 12 500, etc. Also, why did we apply the loss of CU 500 to all buckets? The reason is that all receivables that were written off (CU 500) were in each stage over their life. For example, all written off receivables amounting to CU 500 were current (within maturity), or within those CU 20 000 and therefore we can say that the loss generated during 20X0 (tested period) is 500/20 000. The same applies for any other time bucket. Now, we are not done yet. We have only calculated the historical loss or default rates. We still need to incorporate the forward-looking information. Step 3: Incorporate forward-looking information This is more difficult, but let me just outline one very simple approach. Let's say that ABC's credit losses show almost linear relationship with unemployment rates. Please note that "unemployment rate" is NOT a prescription for you - you should find your own macroeconomic factors that could affect your credit losses. And, let's say that the statistical office in ABC's country assumes that unemployment rate will go up from 5% to 6% in 20X2. ABC's experience is that when unemployment rate increases by 1%, it triggers the increase in default losses by 10% (note - you should be able to prove that). Therefore, ABC may reasonably assume that the loss of CU 500 can increase by 10% because of the increase in the unemployment rate - that is, to CU 550. Thus, the calculation of loss (default) rates adjusted by forward-looking information is as follows: When paid? Unpaid amount Loss Default rate Within maturity (0-30 days) 20 000 550 2.75% 31-60 days 12 500 550 4.40% 61-180 days 7 500 550 7.44% 180-360 days 5 500 550 18.18% > 360 days 5 500 550 100.00% Note: Default rate = loss divided by the unpaid amount. Here you might note that data shifted a bit. Unpaid amount for "within maturity" row amounting to CU 12 500 is now in the "31-60 days" row. That's OK because we are calculating amounts that fell into certain time bucket - that is, in the beginning of that bucket, not at its end. So, in "within maturity" bucket, ABC created CU 20 000 of trade receivables; in "31-60 days" bucket, ABC created CU 12 500, etc. Also, why did we apply the loss of CU 500 to all buckets? The reason is that all receivables that were written off (CU 500) were in each stage over their life. For example, all written off receivables amounting to CU 500 were current (within maturity), or within those CU 20 000 and therefore we can say that the loss generated during 20X0 (tested period) is 500/20 000. The same applies for any other time bucket. Now, we are not done yet. We have only calculated the historical loss or default rates. We still need to incorporate the forward-looking information. Step 3: Incorporate forward-looking information This is more difficult, but let me just outline one very simple approach. Let's say that ABC's credit losses show almost linear relationship with unemployment rates. Please note that "unemployment rate" is NOT a prescription for you - you should find your own macroeconomic factors that could affect your credit losses. And, let's say that the statistical office in ABC's country assumes that unemployment rate will go up from 5% to 6% in 20X2. ABC's experience is that when unemployment rate increases by 1%, it triggers the increase in default losses by 10% (note - you should be able to prove that). Therefore, ABC may reasonably assume that the loss of CU 500 can increase by 10% because of the increase in the unemployment rate - that is, to CU 550. Thus, the calculation of loss (default) rates adjusted by forward-looking information is as follows: When paid? Unpaid amount Loss Default rate Within maturity (0-30 days) 20 000 550 2.75% 31-60 days 12 500 550 4.40% 61-180 days 7 500 550 7.44% 180-360 days 5 500 550 18.18% > 360 days 5 500 550 100.00% Note: Default rate = loss divided by the unpaid amount. Here you might note that data shifted a bit. Unpaid amount for "within maturity" row amounting to CU 12 500 is now in the "31-60 days" row. That's OK because we are calculating amounts that fell into certain time bucket - that is, in the beginning of that bucket, not at its end. So, in "within maturity" bucket, ABC created CU 20 000 of trade receivables; in "31-60 days" bucket, ABC created CU 12 500, etc. Also, why did we apply the loss of CU 500 to all buckets? The reason is that all receivables that were written off (CU 500) were in each stage over their life. For example, all written off receivables amounting to CU 500 were current (within maturity), or within those CU 20 000 and therefore we can say that the loss generated during 20X0 (tested period) is 500/20 000. The same applies for any other time bucket. Now, we are not done yet. We have only calculated the historical loss or default rates. We still need to incorporate the forward-looking information. Step 3: Incorporate forward-looking information This is more difficult, but let me just outline one very simple approach. Let's say that ABC's credit losses show almost linear relationship with unemployment rates. Please note that "unemployment rate" is NOT a prescription for you - you should find your own macroeconomic factors that could affect your credit losses. And, let's say that the statistical office in ABC's country assumes that unemployment rate will go up from 5% to 6% in 20X2. ABC's experience is that when unemployment rate increases by 1%, it triggers the increase in default losses by 10% (note - you should be able to prove that). Therefore, ABC may reasonably assume that the loss of CU 500 can increase by 10% because of the increase in the unemployment rate - that is, to CU 550. Thus, the calculation of loss (default) rates adjusted by forward-looking information is as follows: When paid? Unpaid amount Loss Default rate Within maturity (0-30 days) 20 000 550 2.75% 31-60 days 12 500 550 4.40% 61-180 days 7 500 550 7.44% 180-360 days 5 500 550 18.18% > 360 days 5 500 550 100.00% Note: Default rate = loss divided by the unpaid amount. Here you might note that data shifted a bit. Unpaid amount for "within maturity" row amounting to CU 12 500 is now in the "31-60 days" row. That's OK because we are calculating amounts that fell into certain time bucket - that is, in the beginning of that bucket, not at its end. So, in "within maturity" bucket, ABC created CU 20 000 of trade receivables; in "31-60 days" bucket, ABC created CU 12 500, etc. Also, why did we apply the loss of CU 500 to all buckets? The reason is that all receivables that were written off (CU 500) were in each stage over their life. For example, all written off receivables amounting to CU 500 were current (within maturity), or within those CU 20 000 and therefore we can say that the loss generated during 20X0 (tested period) is 500/20 000. The same applies for any other time bucket. Now, we are not done yet. We have only calculated the historical loss or default rates. We still need to incorporate the forward-looking information. Step 3: Incorporate forward-looking information This is more difficult, but let me just outline one very simple approach. Let's say that ABC's credit losses show almost linear relationship with unemployment rates. Please note that "unemployment rate" is NOT a prescription for you - you should find your own macroeconomic factors that could affect your credit losses. And, let's say that the statistical office in ABC's country assumes that unemployment rate will go up from 5% to 6% in 20X2. ABC's experience is that when unemployment rate increases by 1%, it triggers the increase in default losses by 10% (note - you should be able to prove that). Therefore, ABC may reasonably assume that the loss of CU 500 can increase by 10% because of the increase in the unemployment rate - that is, to CU 550. Thus, the calculation of loss (default) rates adjusted by forward-looking information is as follows: When paid? Unpaid amount Loss Default rate Within maturity (0-30 days) 20 000 550 2.75% 31-60 days 12 500 550 4.40% 61-180 days 7 500 550 7.44% 180-360 days 5 500 550 18.18% > 360 days 5 500 550 100.00% Note: Default rate = loss divided by the unpaid amount. Here you might note that data shifted a bit. Unpaid amount for "within maturity" row amounting to CU 12 500 is now in the "31-60 days" row. That's OK because we are calculating amounts that fell into certain time bucket - that is, in the beginning of that bucket, not at its end. So, in "within maturity" bucket, ABC created CU 20 000 of trade receivables; in "31-60 days" bucket, ABC created CU 12 500, etc. Also, why did we apply the loss of CU 500 to all buckets? The reason is that all receivables that were written off (CU 500) were in each stage over their life. For example, all written off receivables amounting to CU 500 were current (within maturity), or within those CU 20 000 and therefore we can say that the loss generated during 20X0 (tested period) is 500/20 000. The same applies for any other time bucket. Now, we are not done yet. We have only calculated the historical loss or default rates. We still need to incorporate the forward-looking information. Step 3: Incorporate forward-looking information This is more difficult, but let me just outline one very simple approach. Let's say that ABC's credit losses show almost linear relationship with unemployment rates. Please note that "unemployment rate" is NOT a prescription for you - you should find your own macroeconomic factors that could affect your credit losses. And, let's say that the statistical office in ABC's country assumes that unemployment rate will go up from 5% to 6% in 20X2. ABC's experience is that when unemployment rate increases by 1%, it triggers the increase in default losses by 10% (note - you should be able to prove that). Therefore, ABC may reasonably assume that the loss of CU 500 can increase by 10% because of the increase in the unemployment rate - that is, to CU 550. Thus, the calculation of loss (default) rates adjusted by forward-looking information is as follows: When paid? Unpaid amount Loss Default rate Within maturity (0-30 days) 20 000 550 2.75% 31-60 days 12 500 550 4.40% 61-180 days 7 500 550 7.44% 180-360 days 5 500 550 18.18% > 360 days 5 500 550 100.00% Note: Default rate = loss divided by the unpaid amount. Here you might note that data shifted a bit. Unpaid amount for "within maturity" row amounting to CU 12 500 is now in the "31-60 days" row. That's OK because we are calculating amounts that fell into certain time bucket - that is, in the beginning of that bucket, not at its end. So, in "within maturity" bucket, ABC created CU 20 000 of trade receivables; in "31-60 days" bucket, ABC created CU 12 500, etc. Also, why did we apply the loss of CU 500 to all buckets? The reason is that all receivables that were written off (CU 500) were in each stage over their life. For example, all written off receivables amounting to CU 500 were current (within maturity), or within those CU 20 000 and therefore