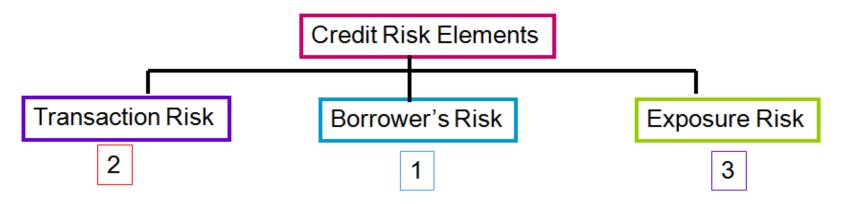
3. Bagaimana Menghitung Risiko Kredit? PARAMETER RISIKO (PD, LGD DAN EAD).

Risk Components: Drivers of Credit Risk

Driver of	Standardised	IRB
Credit Risk	Approach	Approach
Obligorrisk	Credit assessment institutions	Probability of Default (PD)
Transaction risk	Credit risk mitigation techniques	Loss Given Default (LGD)
Likely size of exposure	Credit conversion factors	Exposure at Default (EAD)
Maturity	Limited recognition	Maturity (M)

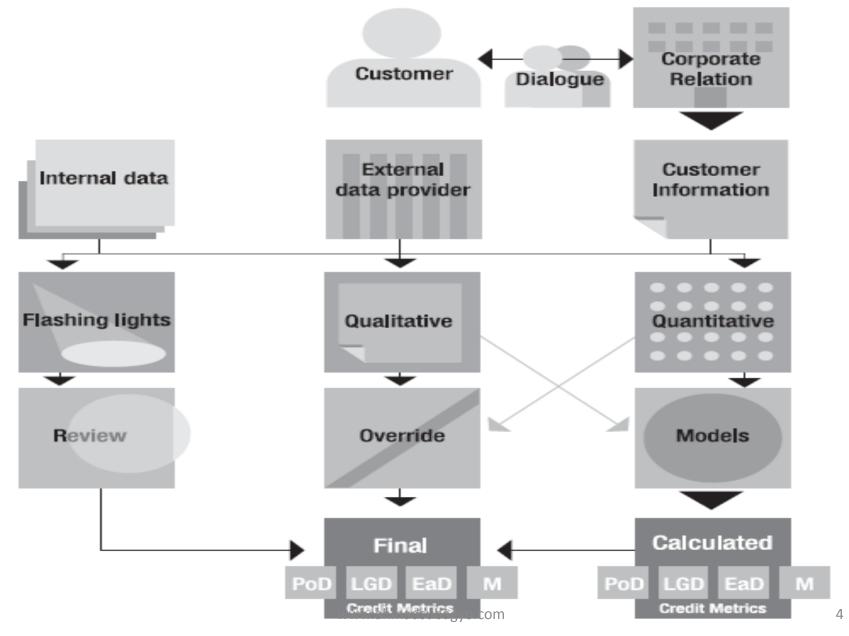
Key Components of Credit Risk under Basel II



- The probability of default (PD) being assessed using both quantitative & qualitative information about the borrower and the market.
- Loss given default assessed on actual details such as: recovery time, collateral, market value of debt, and also within the perceived risk of the borrower.
- Exposure at default of the loan (EAD). This component takes into consideration value of the outstanding debt at the time of default (t), and also any committed by unused line of credit.

Note: Other factors such as: the amount outstanding, borrower's position within the Industry, degree of concentration risk involved, scope of diversification, and maturity

Credit Risk Driver



Component of Credit Risk

Size of Expected Loss What

is the probability of a counterparty going into default?

2

How much

will that customer owe the bank in the case of default? (Expected Exposure) 3

How much

of that exposure is the bank going to lose?

orrower Diels

Borrower Risk

Facility Risk Related

"Expected Loss"

"Probability of Default"

"Loan Equivalency" "Severity"

EL =

Expected Loss

 PD

Probability of Default

Public rating map Rating model EAD

Exposure at Default

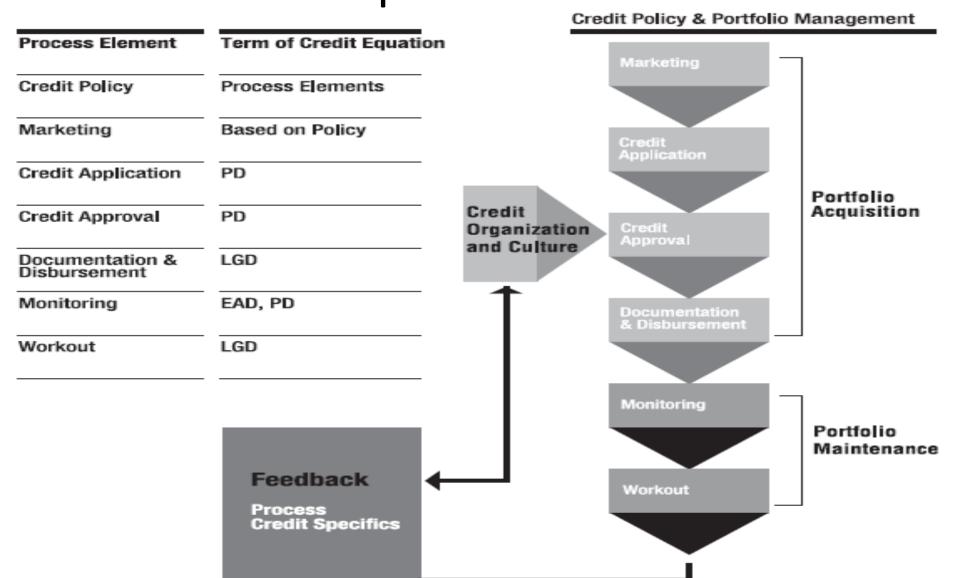
LGD

Loss Given Default

MTM
Potential Exposure
Facility structure
Use of commitment

Seniority Collateral Guarantees

Linking the Credit Process to the Credit Equation



Portfolio Credit Risk Measurements Linked to the Credit Policy

Transaction Credit Risk Attributes

Credit Policy

PD Probability of Default



Likelihood of borrower default over the time horizon

Risk Rating / Underwriting

LGD Loss Given Default



Economic loss or severity of loss in the event of default

Collateral / Workout

EAD
Exposure at
Default



Expected amount of loan when default occurs

Limit Policy / Management

Exposure Term

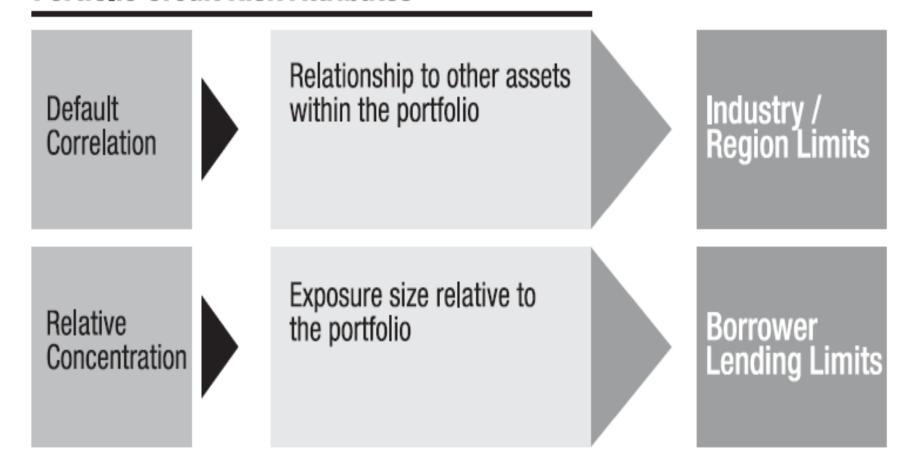


Expected tenor based on pre-payment, amortization, etc.

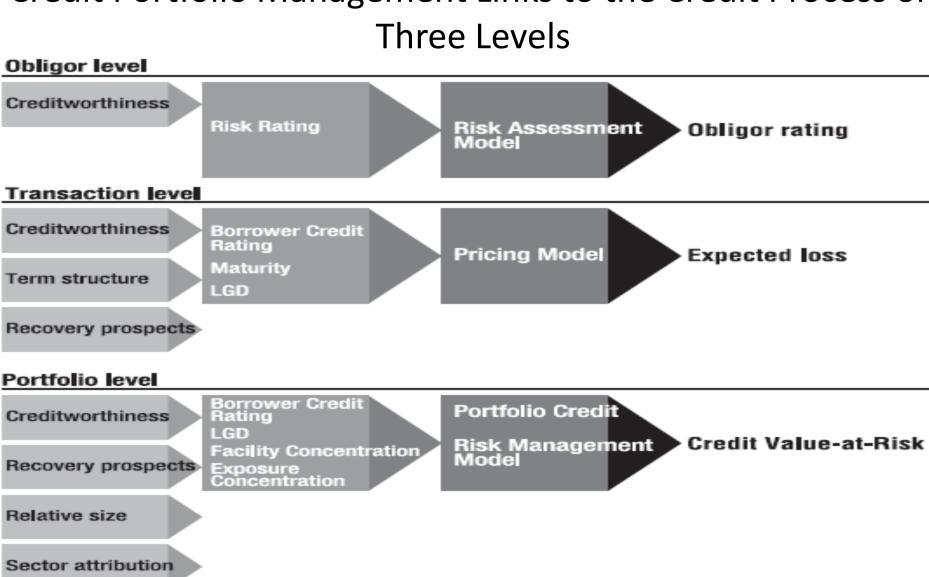
Maturity Guidelines

Portfolio Credit Risk Measurements Linked to the Credit Policy

Portfolio Credit Risk Attributes



Credit Portfolio Management Links to the Credit Process on



Term structure

What has changed?

Risk parameters

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- Default rates
- Loss rates
- Exposure at Default
- Correlations



Risk adjusted view on

Credit pricing

· Credit portfolio management

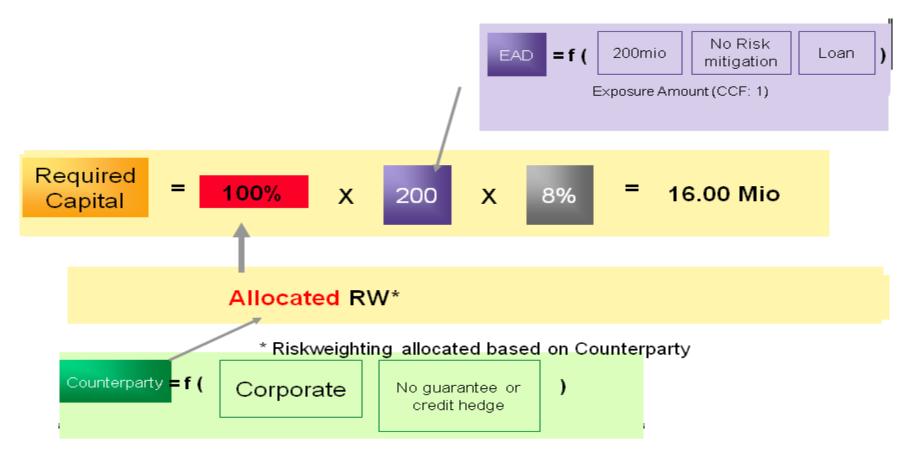
Operative fields of application

- Process optimization (Credit approval / supervision)
- Risk- / equity strategy
- Management Information
- Regulatory issues

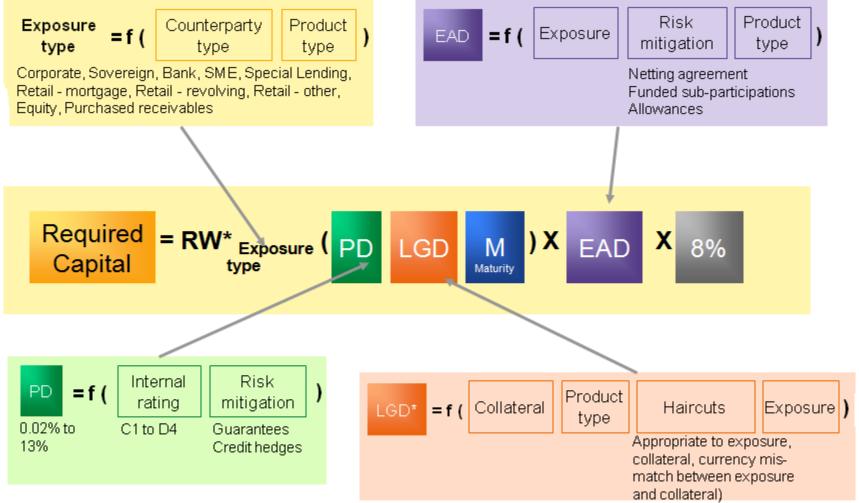
The ability to quantify credit risk – both on counterparty and on portfolio level – has become a strategic factor of success in banks credit business.

Standard Loan Capital Calculation, Basel I

 Example: Banking book loan of 200 Mio (Exposure At Default – EAD) with a Corporate (Ext. Rating A-, Int. Rating C3) of 3 years Original Maturity and 2.5 years Residual Maturity, covered with a AAA Corporate Bond, Market Value 90 Mio.

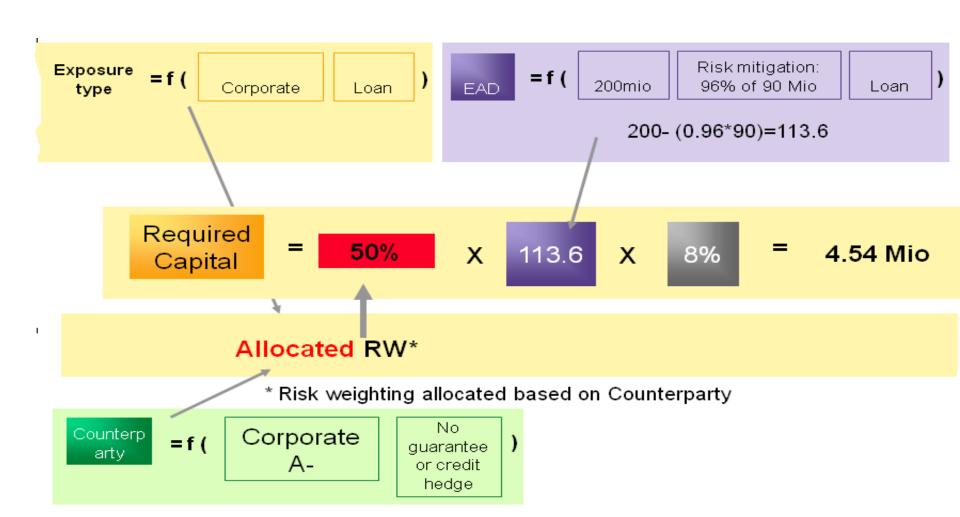


Inputs for Credit Risk Calculators - Basel II

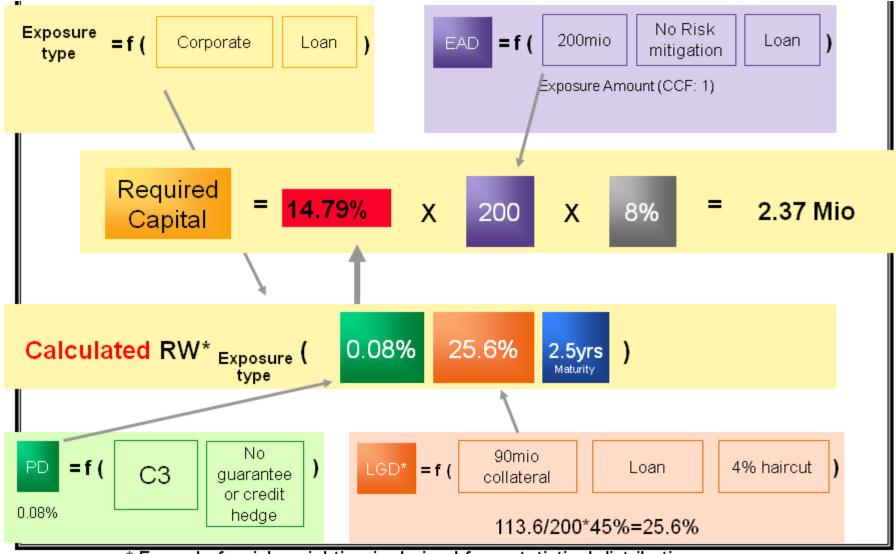


^{*} Formula for risk weighting is deri∨ed from statistical distribution for a standard normal random ∨ariable.

Basel II - Standardized Approach



Basel II - Advanced Approach



^{*} Formula for risk weighting is derived from statistical distribution for a standard normal random variable