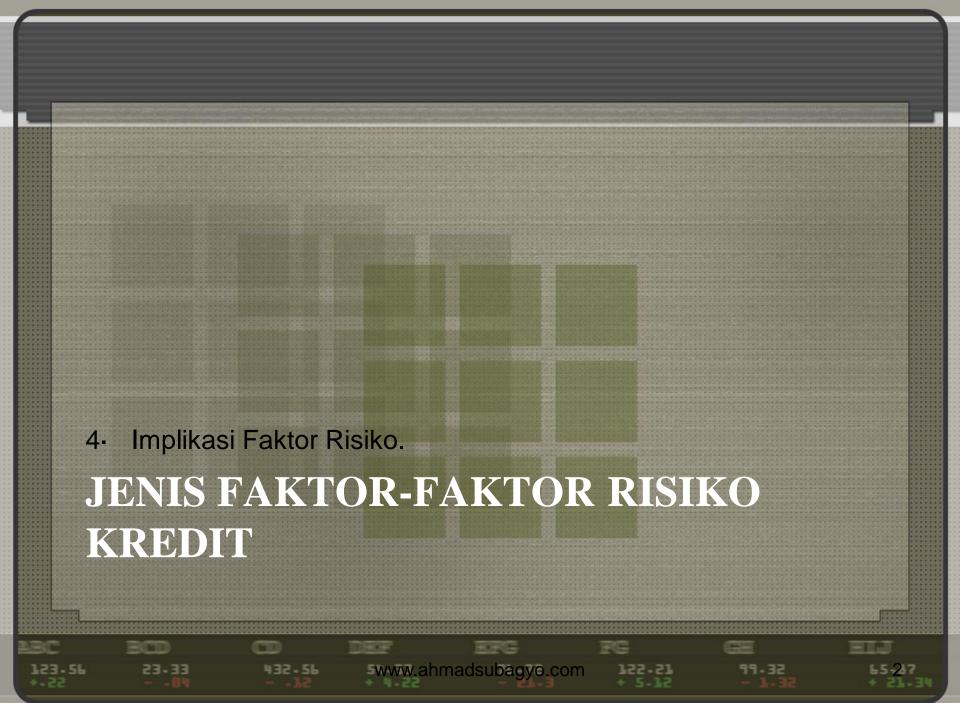
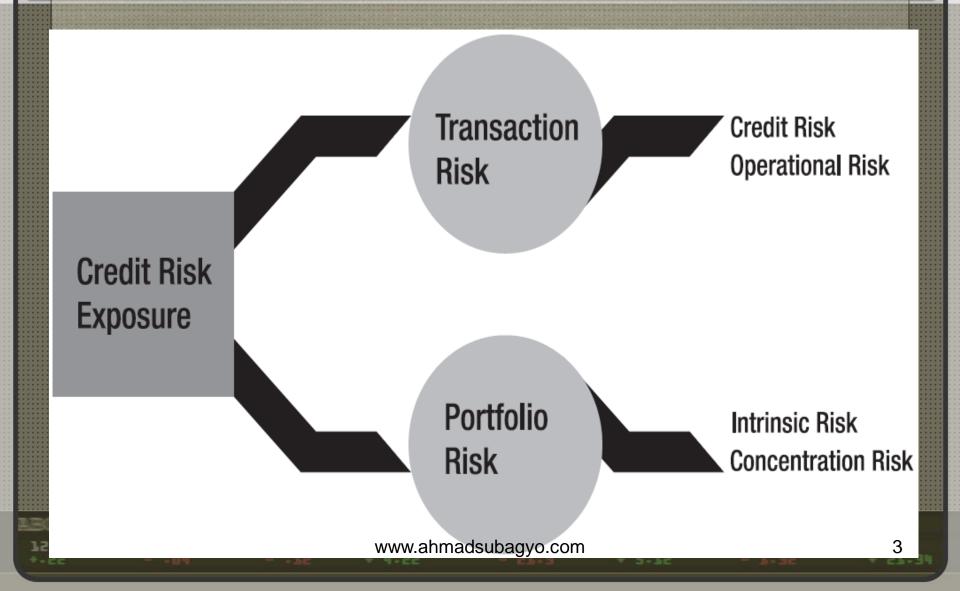
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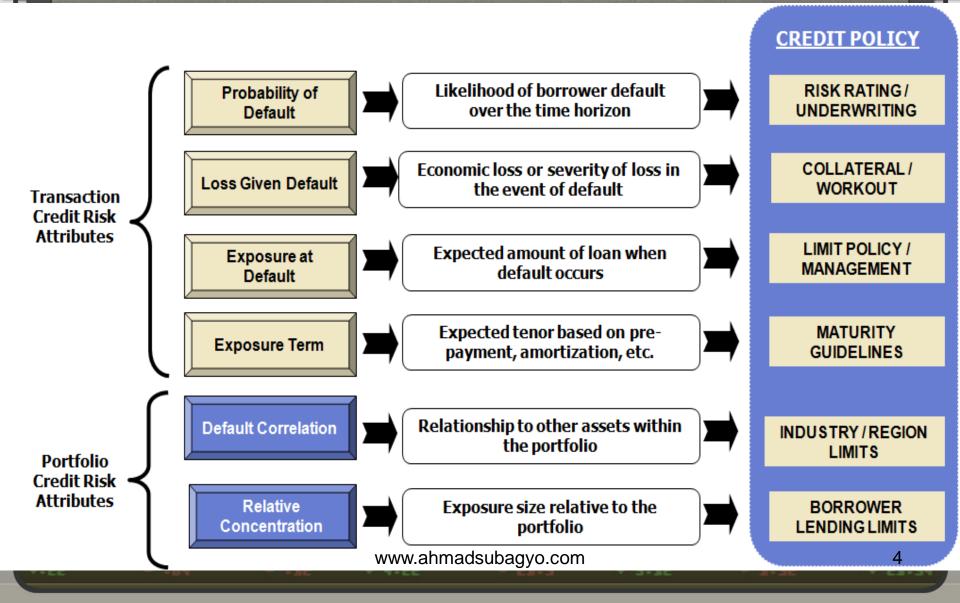
Prepared by Dr. Ahmad Subagyo



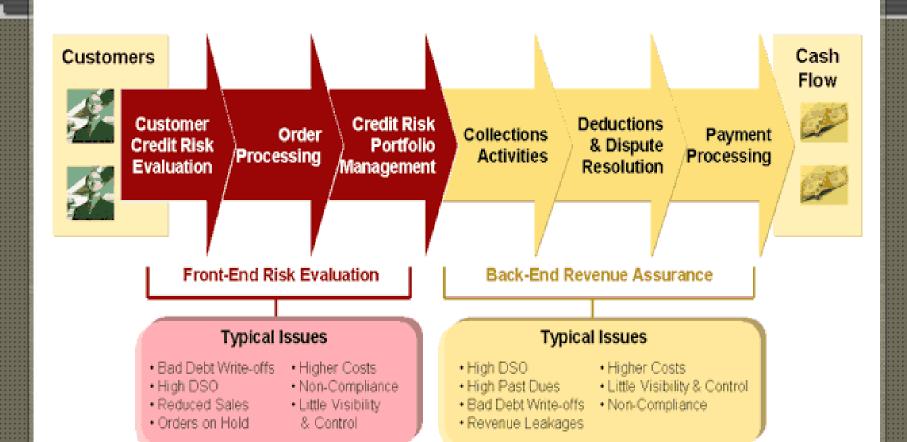
Primary Credit Risk Components



Credit Risk – Linkages to Credit Process



Credit Evaluation & Assurance



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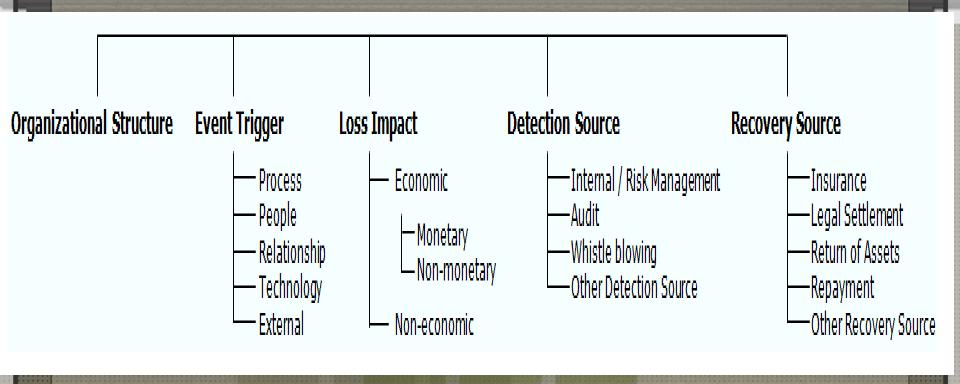
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RISK MAP



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What is stress testing?

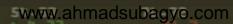
 "Stress testing is a risk management technique used to evaluate the potential effects on an institution's financial condition of a specific event and/or movement in a set of financial variables. The traditional focus of stress testing relates to exceptional but plausible events" (Bank for International Settlements, Committee of the global financial system, January 2005: Stress testing by large financial institutions: survey results and practice)

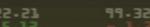
Key aspects of Stress Testing

- The environment in which banks have to operate
- The definition of unexpected loss
- How to use the outcome of the
- stress test

The Environment of Stress Testing

- Essentially there can be two sources of stress:
 - Purely idiosyncratic events such as the default of a large obligor and
 - Developments affecting the entire market, such as an economic downturn.





Types of Stress Tests

- Constant stress test: this involves the (simultaneous) movement of risk component(s), without taking into account the properties of the subportfolios or the interrelations with external events (that is, a flat stress is applied for PDs).
- Model-based stress test: this approach could be divided into univariate (relying on one random variable) and multivariate (involving a number of independent mathematical or statistical variables) approaches

Stress Testing Scenarios

- Historical scenarios: extreme universes of risk factors observed in the past that are related, largely, to historical events and crises.
- Statistically based scenarios: based on the joint statistical distribution of risk factors. The key challenge in this approach is to have enough historical data to define the distribution.
- Hypothetical scenarios: focuses on rare events that might have an important impact on the portfolio but have not been observed yet

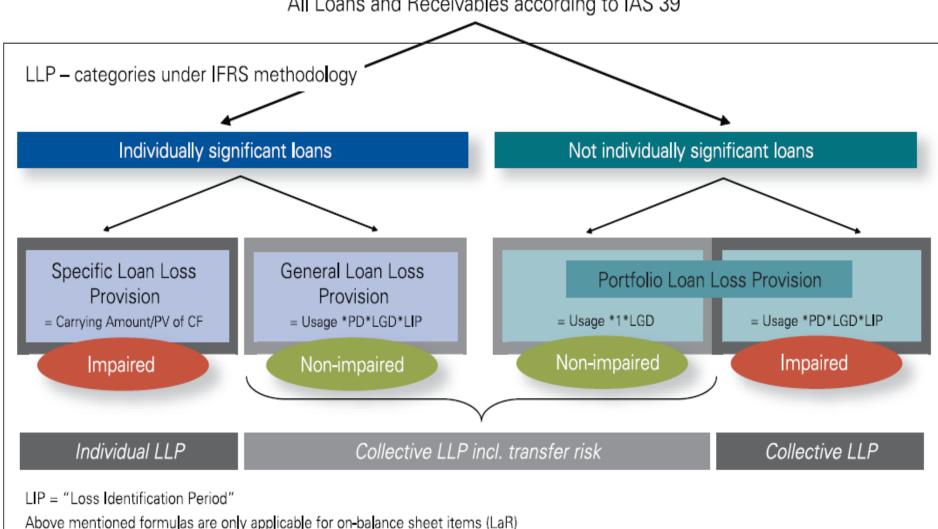
Stress Testing Approaches

- Portfolio or bottom-up: the identification of risk drivers is strictly dependent on the portfolio composition
- Event or top-down a study of the impact of a chosen scenario



Basel II and IFRS

All Loans and Receivables according to IAS 39



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Application of Basel II Parameter for IFRS Provisioning

Expected Loss

Incurred Loss

$$EL = EAD*PD*LGD$$

IL = CA*PD*LGD*LIP

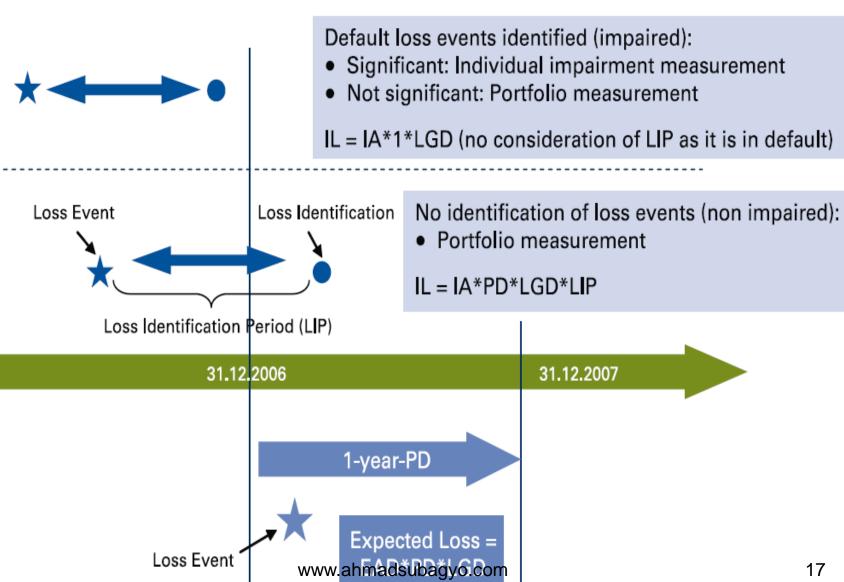
For meeting the requirements of the IAS Incurred Loss Concept, adjustments to the Basel II advanced IRBA approach are necessary

a) Assignment of portfolio b)
EAD/Carrying
Amount
(Exposure at
Default/expect
ed amount of
the debt at
term of default)

c) PD (Probability of Default) d) LGD (Loss Given Default)

e) LIP (Loss Identification /Emergence Period)

EL = Expected Loss, EAD = Exposure at Default, PD = Probability of Default, LGD = Loss Given Default, IL = Incurred Loss, CA = Carrwing Amount band & Pom Loss Identification Period 1



Menghitung PD

DROBABILIT	Y OF DEFAULT U	INITIIV VELOR	ADOK KBEDIA	LNDD								
		JIVION NELOIV	IPOK KKEDI	INFN								
	ANALYSIS			The state of the s				21-12-2				
Tahun Data	2006 - 2007					i dan sa casal s		de la		THE PROPERTY OF THE PARTY.	OPERATE DESCRIPTION OF THE PERSON OF THE PER	::::::::
	***********	*************										
1. Mengumpulk	an Data			ACTUAL VALUE OF THE	和特別的投資的	A STOCKED BY						
Desember 2006				Migrasi di th 2007 atas Balance 2006								
Umur Tunggakai		0 Hari	1-30 Hari	31-60 Hari	61-90 Hari	91-120 Hari	121-180 Hari	> 180 Hari	Hapus Buku	Pembayaran	Jumlah	
0 Hari	1,106,153,940.30	695,154,480.80	65,905,950.90	161,408,666.00	0.00	83,151,679.20	98,617,152.60	1,916,010.80	0.00	0.00	1,106,153,940.30	
1-30 Hari	233,814,998.60	0.00	0.00	184,532,767.60		49,282,231.00	0.00	0.00	0.00	0.00	233,814,998.60	
31-60 Hari	203,404,238.40	0.00	0.00	139,859,817.40	63,544,421.00	0.00	0.00	0.00	0.00	0.00	203,404,238.40	
61-90 Hari	42,320,981.90	0.00	0.00	0.00	13,533,902.70	21,842,635.00	0.00	6,944,444.20	0.00	0.00	42,320,981.90	
91-120 Hari	44,762,679.70	0.00	0.00	0.00	0.00	22,582,605.40	17,240,720.70	4,939,353.60	0.00	0.00	44,762,679.70	
121-180 Hari	100,393,519.20	0.00	0.00	0.00	0.00	44,611,261.60	30,731,884.30	25,050,373.30	0.00	0.00	100,393,519.20	
> 180 Hari	126,544,108.70	0.00	0.00	0.00	0.00	13,720,866.50	8,638,760.30	35,559,606.70	38,488,579.60	30,136,295.60	126,544,108.70	
0.00	0 1 1 1111 60 6		C									
0	Probability of Defau		ansattasia.			Migraei di th 20	007 otos Bolones	2000				
Desember 2006 Umur			Migrasi di th 2007 atas Balance 2006							PD to HB		
Tunggakan	Saldo	0 Hari	1-30 Hari	31-60 Hari	61-90 Hari	91-120 Hari	121-180 Hari	> 180 Hari	Hapus Buku	Pembayaran	Jumlah	2006-2007
0 Hari	1,106,153,940.30	62.84%	5.96%	14.59%	0.00%	7.52%	8.92%	0.17%	0.00%	0.00%	100.00%	1.78%
1-30 Hari	233,814,998.60	0.00%	0.00%	78.92%	Company of the Compan	21.08%	0.00%	0.00%	0.00%	0.00%	100.00%	3.35%
31-60 Hari	139,859,817.40	0.00%	0.00%	68.76%	31.24%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	2.57%
61-90 Hari	42,320,981.90	0.00%	0.00%	0.00%	31.98%	51.61%	0.00%	16.41%	0.00%	0.00%	100.00%	8.23%
91-120 Hari	44,762,679.70	0.00%	0.00%	0.00%	0.00%	50.45%	38.52%	11.03%	0.00%	0.00%	100.00%	6.28%
121-180 Hari	100,393,519.20	0.00%	0.00%	0.00%	0.00%	44.44%	30.61%	24.95%	0.00%	0.00%	100.00%	7.59%
> 180 Hari	126,544,108.70	0.00%	0.00%	0.00%	0.00%	10.84%	6.83%	28.10%	30.42%	23.81%	100.00%	30.42%
**********		911901 13231 <u>3</u> 233	(4444444444	(9412922 <u>93333</u>	**********	1222222222222	*********	*********	***********	******	492499999 8393 999	224224144
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SUMMARY PD-LGD-CKPN

SUMMAR	Y DATA PD		M			4:20:00:00:00:00:00:00			
MIGRATION ANALYSIS							PERHITUNGAN % CKP		CKPN
Umur Tunggakan	Saldo 2006	Saldo 2007	Saldo 2008	PD TO HB 2006-2007	PD TO HB 2007-2008	PD TO HB 2008-2009	PD	LGD	CKPN
0 Hari	1,106,153,940.30	786,201,319.80	673,922,033.60	1.78%	2.03%	0.13%	1.31%	72.07%	0.95
1-30 Hari	233,814,998.60	743,663,462.30	938,359,428.60	3.35%	0.17%	0.55%	1.36%	72.07%	0.9
31-60 Hari	139,859,817.40	348,285,855.60	439,710,357.60	2.57%	0.62%	0.17%	1.12%	72.07%	0.8
61-90 Hari	42,320,981.90	169,581,522.90	465,441,646.40	8.23%	2.84%	0.59%	3.89%	72.07%	2.8
91-120 Hari	44,762,679.70	224,126,501.20	228,275,346.30	6.28%	12.49%	0.65%	6.47%	72.07%	4.67
121-180 Hari	100,393,519.20	222,993,864.50	114,736,805.80	7.59%	21.37%	3.12%	10.69%	72.07%	7.7
> 180 Hari	126,544,108.70	180,385,148.40	327,788,905.90	30.42%	38.91%	41.08%	36.80%	72.07%	26.5

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