

LSPP Executive Program

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Here for good

Agenda

- The Basel Journey
- Basel 1 – Perspective for Corporates and Institutions
- Basel 2 – An Internal Rating Based Approach
- Credit Risk Models
- Use and Governance

The Basel Journey

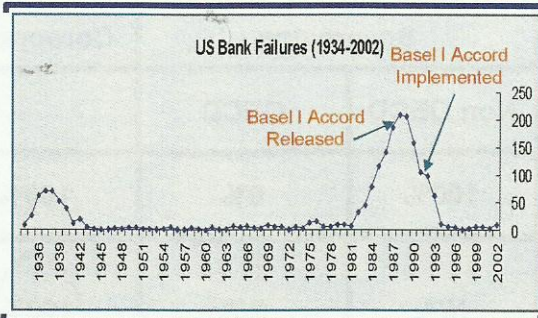
- 1974: The Herstatt collapse
- 1975: G10 forms a Committee on Banking Supervision
- 1982: Latin American debt crisis
- 1988: Basel 1 Accord
- 1997: Asian Financial Crisis
- 1998 - 2004: Basel 2 Policy evolution
- 2007- 10: Basel 2 implementation
- 2007-09: Western Financial Crisis
- 2009 Dec: Basel 3 consultation papers
- 2010 Dec: Revised Basel 3 proposals

Corporate and Institutions

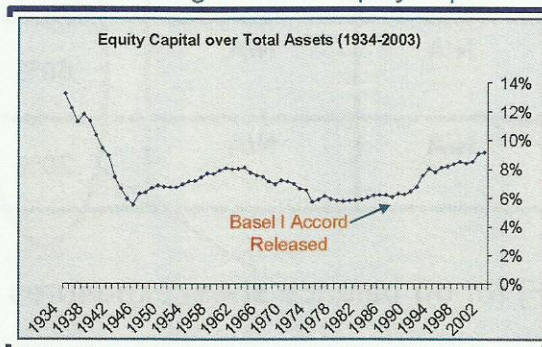
Basel 1

Genesis of Basel 1 Accord

Increased number of bank failures...



...and falling levels of equity capital



...led to Basel I Capital Accord

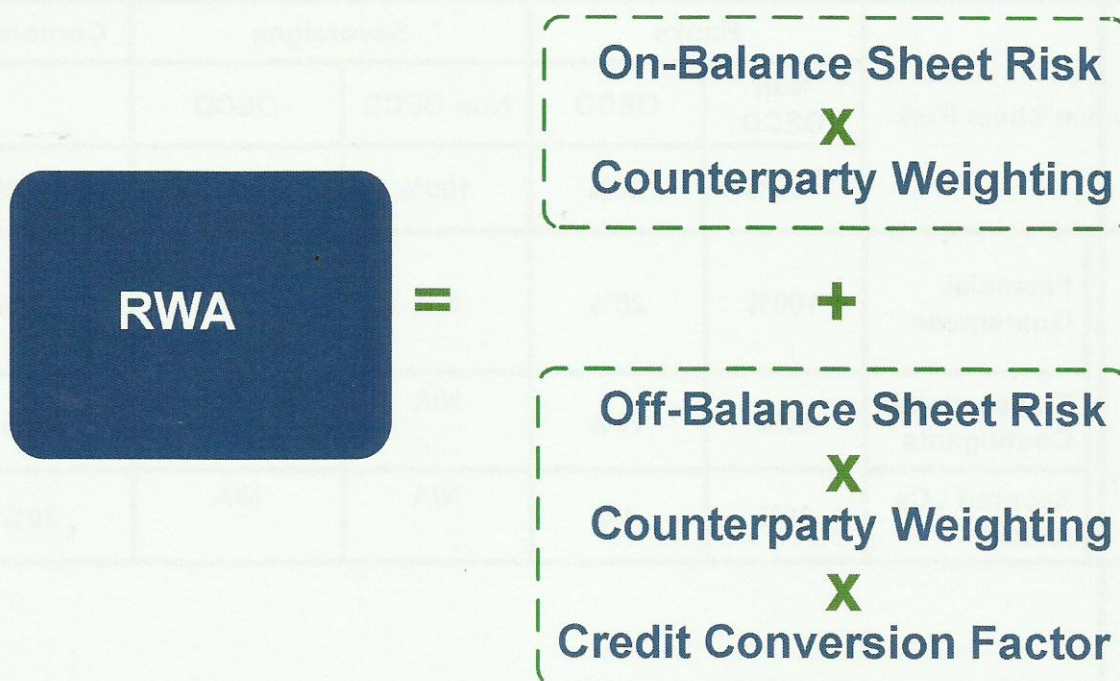
Basel I Principles

- Strengthen the soundness and stability of the international banking system
- Create minimum risk-based capital adequacy requirements based on types of counterparties dealt with

Basel I Benefits

- Reduced global systemic risk without suppressing competition
- Increased banks' capital

RWA Calculation



RWA Weightings – Corporate and Institutions

On-Balance Sheet Risk		Banks		Sovereigns		Corporates
		Non OECD	OECD	Non OECD	OECD	
		100%	20%	100%	0%	100%
Off Balance Sheet Risk (Cont. liabilities)	Financial Guarantees	100%	20%	N/A	N/A	100%
	Transactional Contingents	50%	10%	N/A	N/A	50%
	Secured LCs Issued	20%	4%	N/A	N/A	20%

Credit Conversion Factor (CCF) for off balance sheet exposures

Two Dimension Risk Sensitivity

On-Balance Sheet Risk		Banks		Sovereigns		Corporates
		Non OECD	OECD	Non OECD	OECD	
		100%	20%	100%	0%	100%
Off Balance Sheet Risk (Cont. liabilities)	Financial Guarantees	100%	20%	N/A	N/A	100%
	Transactional Contingents	50%	10%	N/A	N/A	50%
	Secured LCs Issued	20%	4%	N/A	N/A	20%



Drawbacks of Basel 1

Criticisms of Basel I Accord

- Lack of risk sensitivity of capital requirements: Minimum capital ratio requirement was not based on a maximum probability of insolvency
- 'One-size-fits-all' approach to risk management: Banks were not rewarded for sophisticated risk management
- Limited attention to credit risk mitigation: Exponential growth in credit derivatives as a risk management tool not recognised
- Over emphasis on minimum capital requirements: Lack of sufficient emphasis on risk management processes and controls within banks
- Exclusive focus on financial risk: Not sufficient focus on operational risk and corporate governance and accounting practices

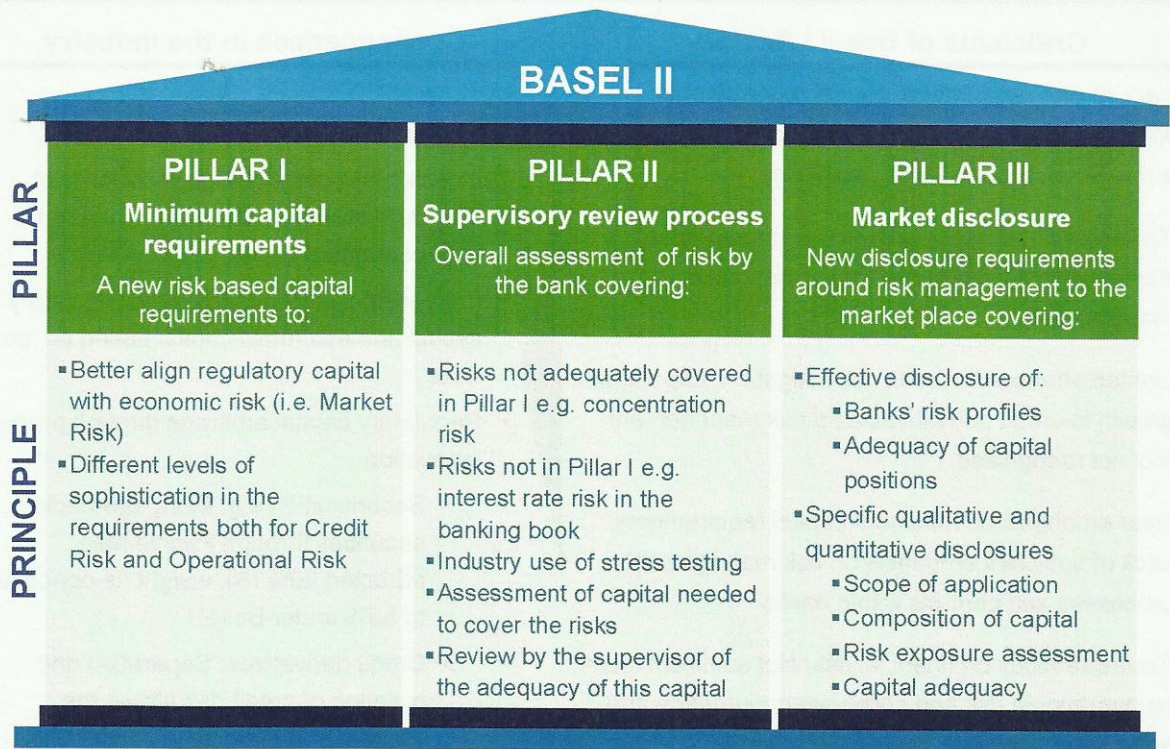
Consequences in the industry

- Sub-optimal lending behaviour
 - A customer with high probability of default was no different to a 'good' customer
- Increased divergence between regulatory capital and economic capital based on 'true' risks
- Regulatory capital arbitrage through product innovation
 - Securitisation e.g. Mortgage-backed securities through Fannie Mae attracted 20% risk weight as opposed to 50% under Basel I
 - Credit derivatives: Separation and isolation of credit risk allows the transfer and hedging of credit risk

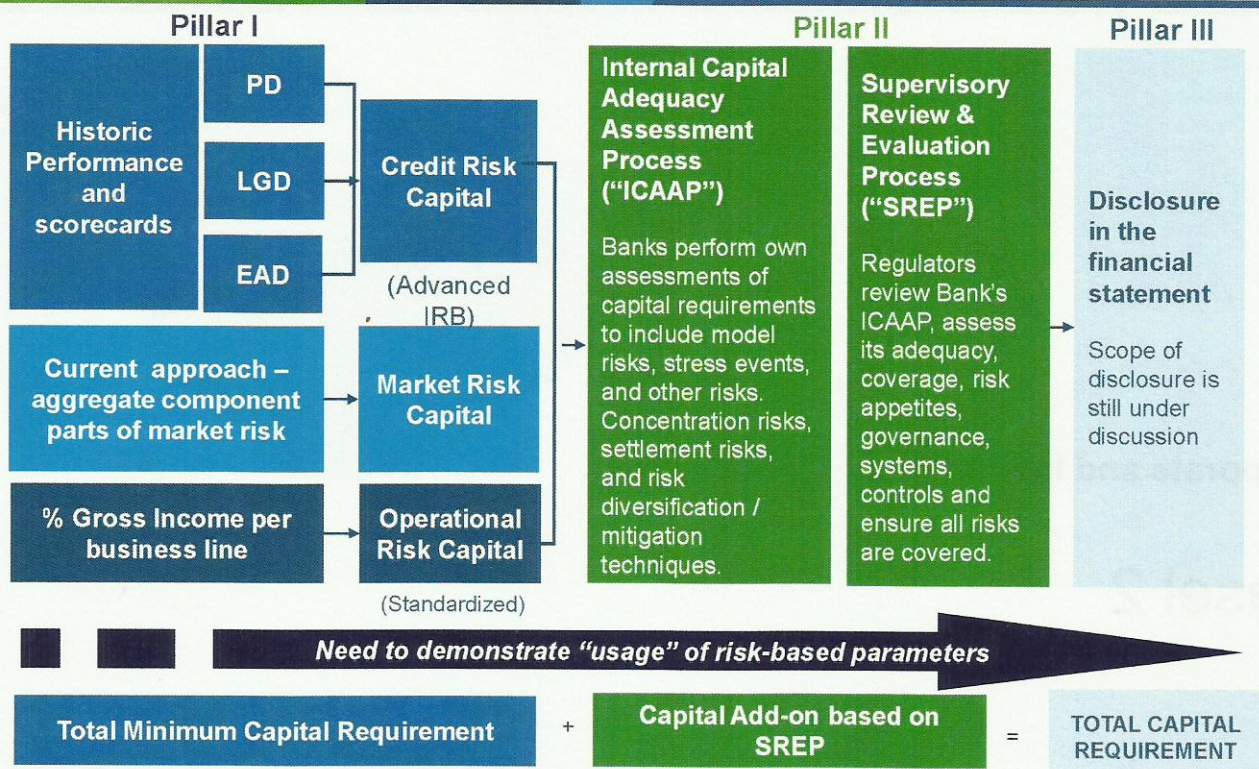
Corporate and Institutions

Basel 2

Components of Basel 2

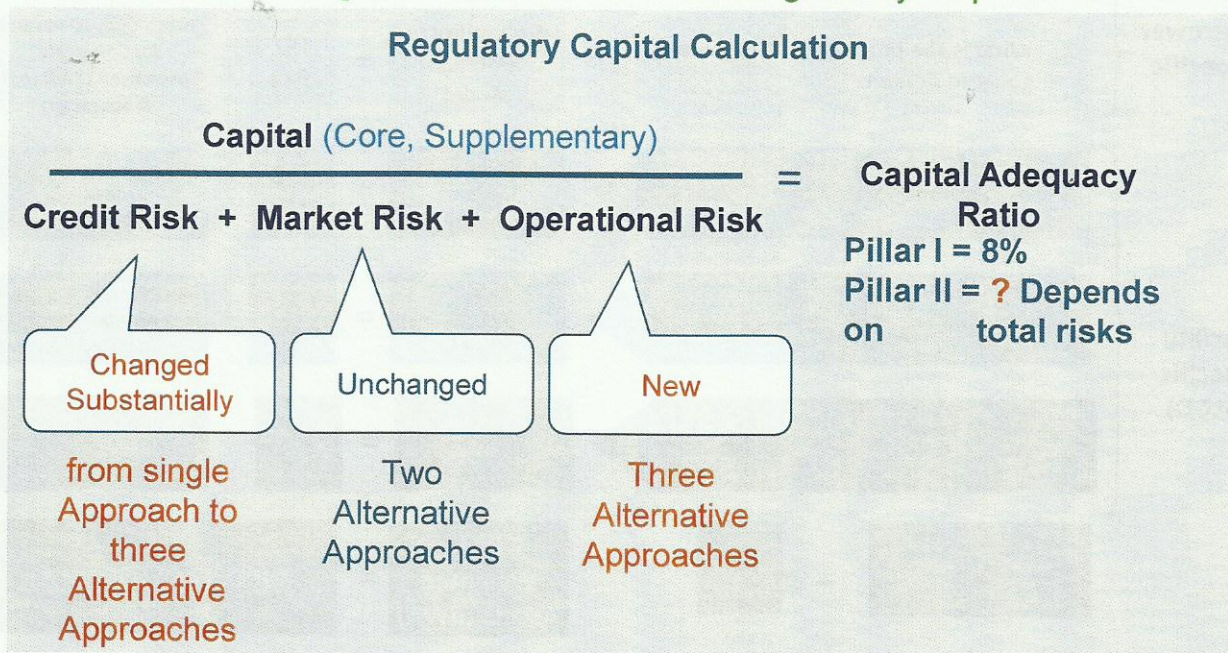


Basel 2 Components



Basel 1 vs Basel 2

Fundamental changes to the calculation of Regulatory Capital

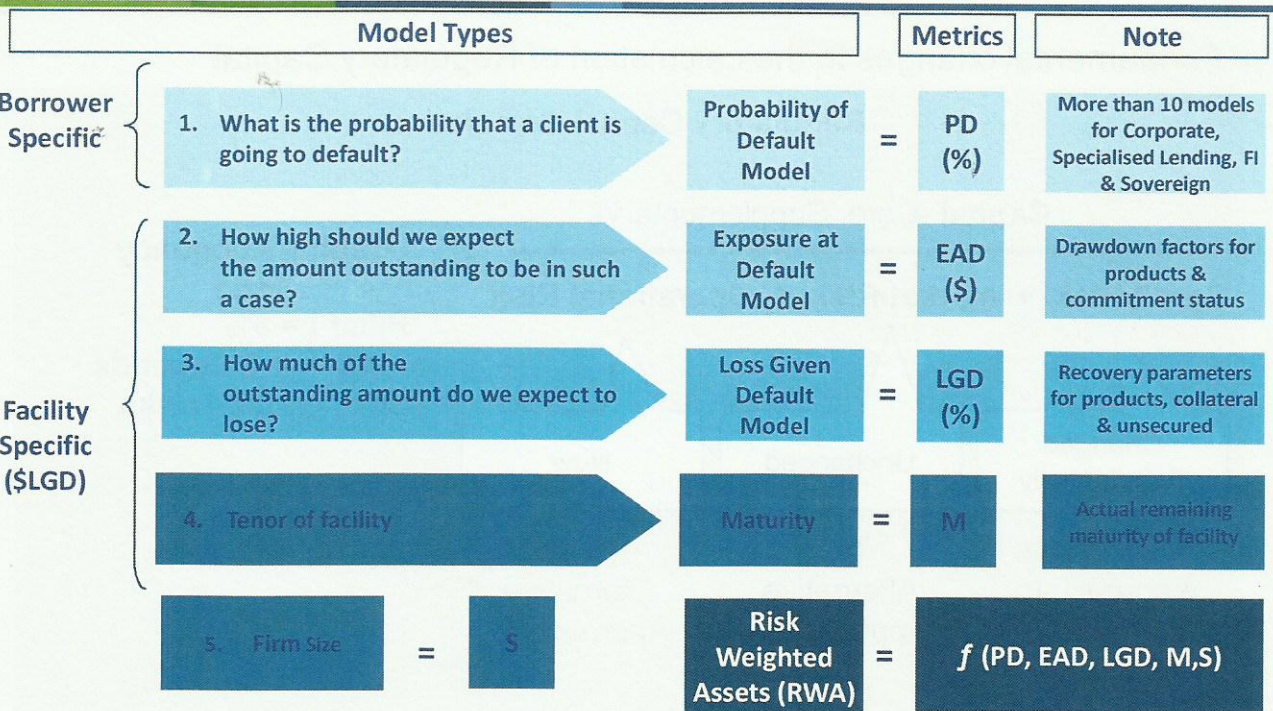


Note: Supplementary Capital limited to 100% Core Capital

Corporate and Institutions

Credit Models

Basel 2 – Risk Sensitive Components



Standards
Chartered

WB sets Threshold Returns on RWA (RoRWA) which feature prominently in decisioning processes

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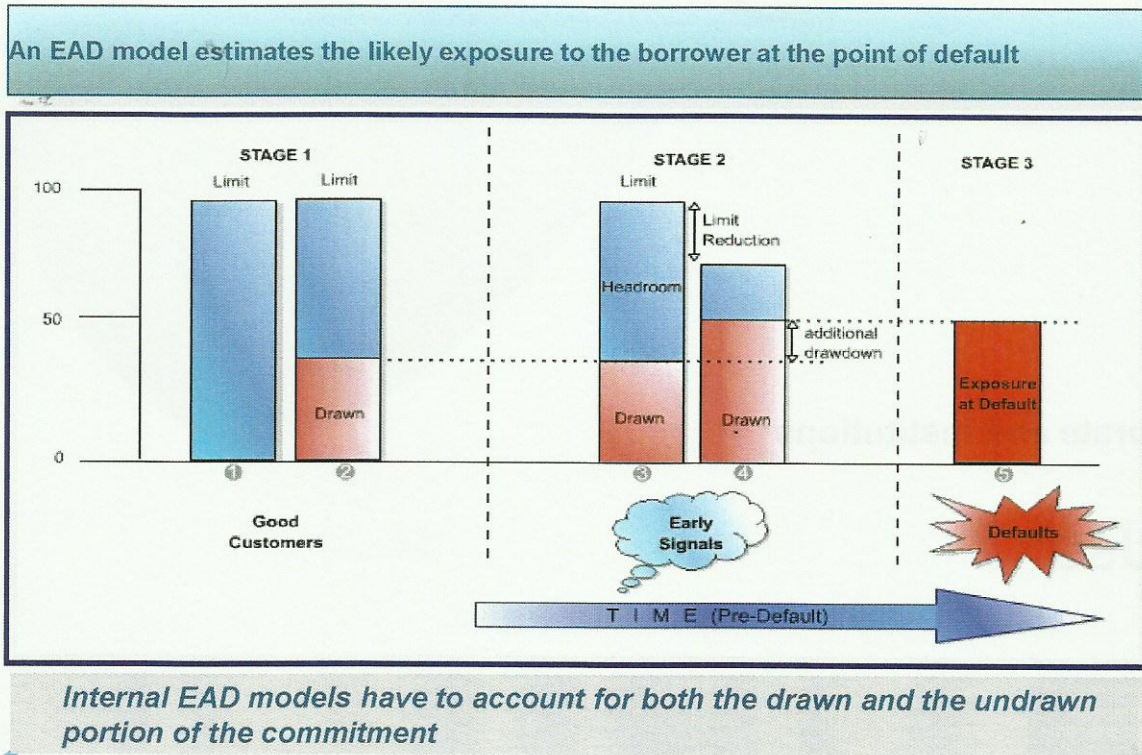
PD – Probability of Default

ECMS (Corporate / NBF)				ECMS (Banks)			
New CG	Mid-Point PD (BPS)	S & P	Old CG	New CG	Mid-Point PD (BPS)	Bank S & F	Old CG
1A	1.0	AAA	1	1A	1.0	AAA, AA+	1
1B	2.0	AA+		1B	2.0	AA, AA-	
2A	3.0	AA	2	2A	3.0	A+	2
2B	4.0	AA-		2B	4.0	A	
3A	5.0	A+		3A	5.0	A-	
3B	7.0	A	3	3B	7.0	BBB+	3
4A	9.0	A-		4A	9.0	BBB+, BBB	
4B	13.0	BBE+	4	4B	13.0	BBB	4
5A	22.0	BBB		5A	22.0	BBB-	
5B	39.0	BBB-	5	5B	39.0	BB+	5
6A	51.1	BB+		6A	51.1	BB+, BB	
6B	67.0		6	6B	67.0	BB	6
7A	88.5	BBE		7A	88.5	BB, BB-	
7B	117.0		7	7B	117.0	BB-	7
8A	154.1	BB-		8A	154.1	B+	
8B	203.0		8	8B	203.0	B+, B	8
9A	266.9	B+		9A	266.9	B	
9B	351.0		9	9B	351.0	B, B-	9
10A	462.0	B	10	10A	462.0	B-	10
10B	608.0			10B	608.0	B-, CCC	
11A	800.5		11	11A	800.5	CCC	11
11B	1054.0	B-		11B	1054.0	CCC	
11C	1377.0			11C	1377.0		
12A	GSAM's CG12+			12A	GSAM's CG12+		
12B	GSAM's CG12		12	12B	GSAM's CG12		12
12C	GSAM's CG12-			12C	GSAM's CG12-		

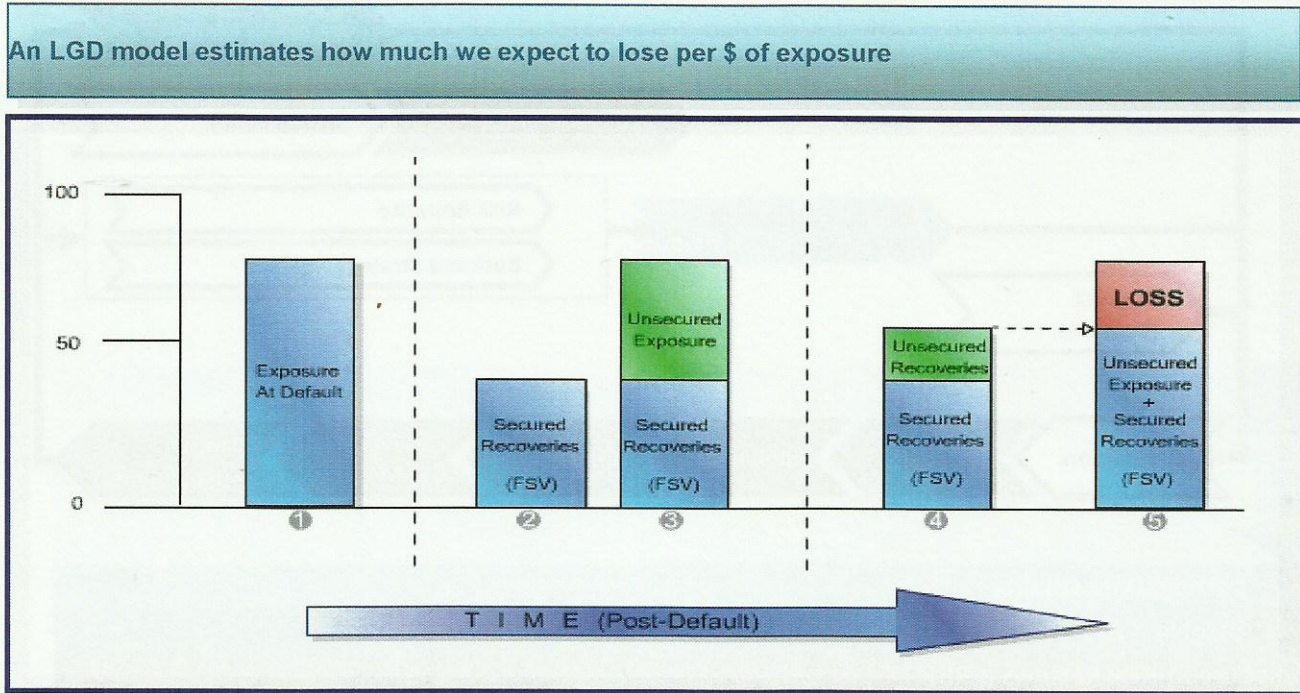
- A master scale is a set of risk classes for both the performing and defaulted assets.

- The different performing risk classes are defined by different probability of default (PD), whereas the defaulted risk classes are defined by specific default events as defined by GSAM.

EAD – Exposure at Default



LGD – Loss Given Default

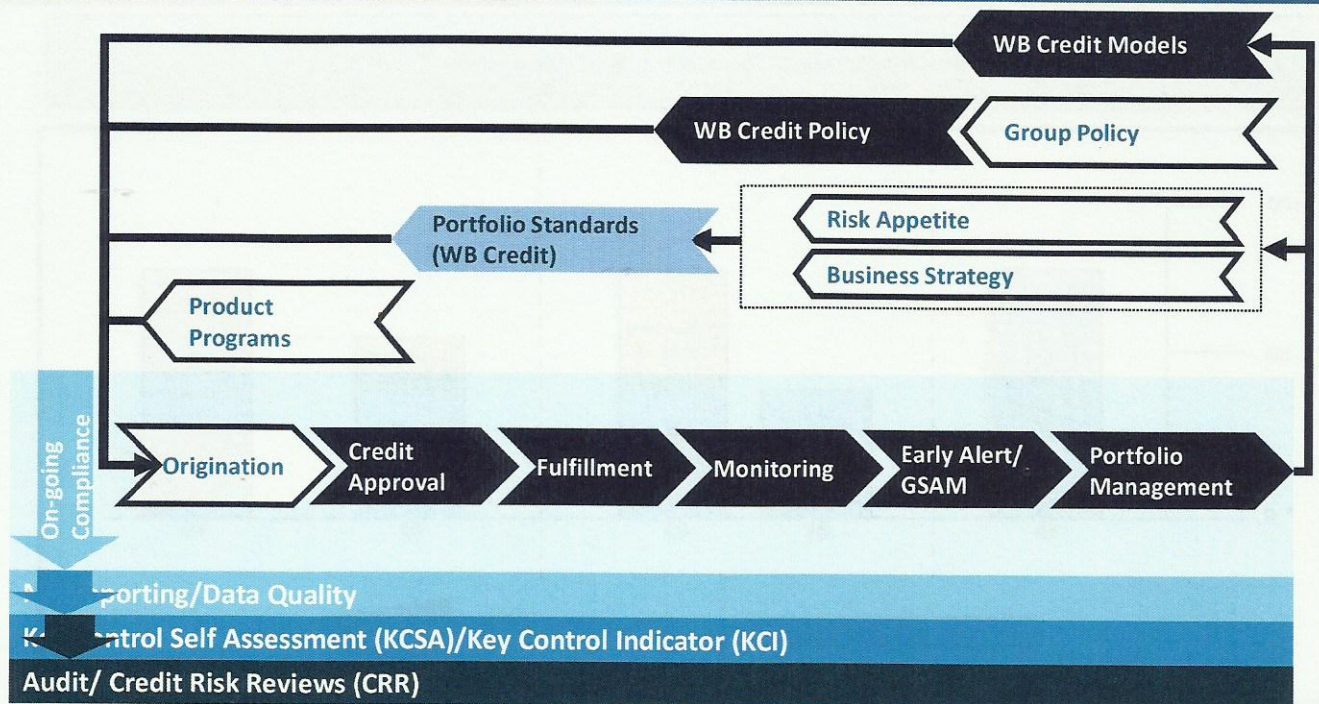


Corporate and Institutions

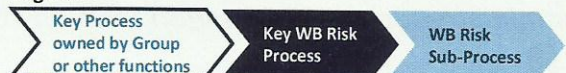
In Use



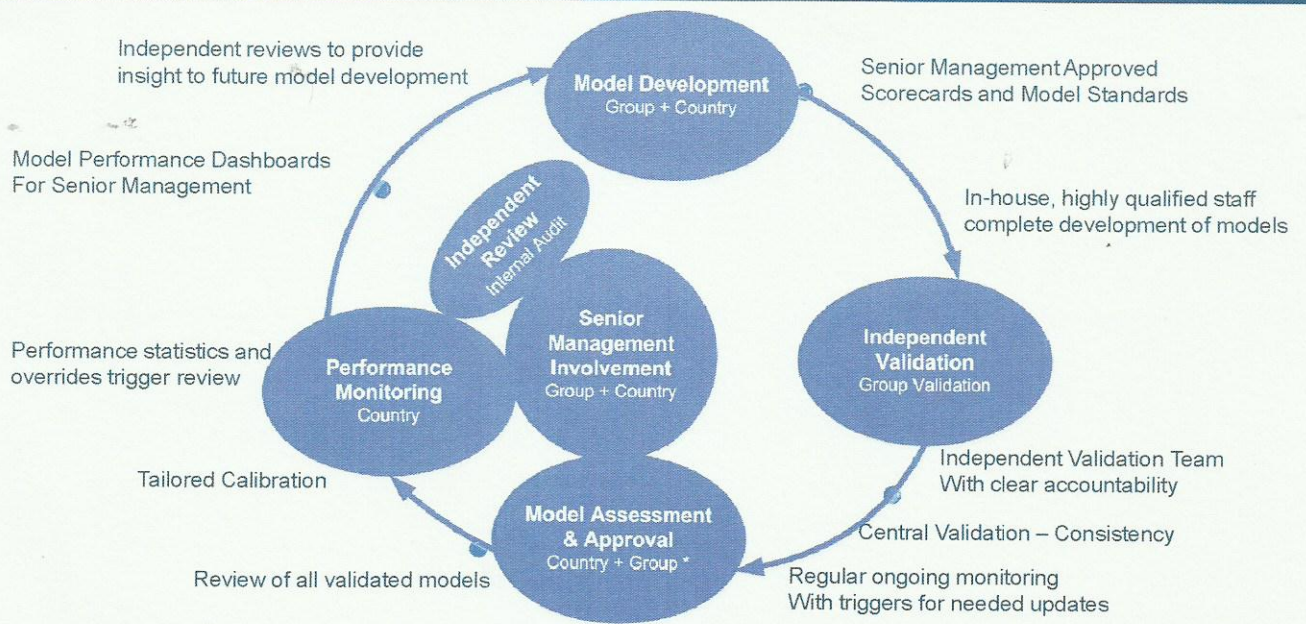
Credit Risk Management



Legends:



Governance



- Model Life Cycle ensures multiple levels of independence and assurance
- Long history of "Use" – Adds to the comfort level
- Adequate Co-work between country and group – further checks and balances



Country: Local MAC Reviews and recommends for Risk Review Committee approval
 Group: Group MAC Reviews and recommends for Business Risk Committee approval