



Enhancing Risk Management and Governance in the Region's Banking System to Implement Basel II and to Meet Contemporary Risks and Challenges Arising from the Global Banking System

## Training Program ~ 8 – 12 December 2008 SHANGHAI, CHINA

Session 6.1

## Operational Risk Management and Capital Regulation

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## What is operational risk?

Operational Risk (OR) is the risk of loss resulting from inadequate or failed internal processes, human behaviour, systems, or from external events. The definition includes legal Risk but excludes strategic and reputational risk









Roles and	responsibilities of each
Different level o	of authority will have different roles & responsibilities hat need to be set clearly. For example:
Operational Risk Committee	<ul> <li>Assists the BOD to ensure op risks are managed in a manner consistent with the overall ORM policy as approved by the BOD.</li> <li>Initiates the development of minimum control standards to manage op risk.</li> <li>Evaluates control weaknesses and agrees on appropriate mitigation plans.</li> </ul>
Head of Risk Management	<ul> <li>Is an integral member of the senior management team and reports to risk management committees.</li> <li>Ensures that all identified risks are managed effectively within appropriate and agreed risk parameters.</li> </ul>
Head of Operational Risk	<ul> <li>Is the overall facilitator for ORM.</li> <li>Reviews op risk profile and carries out quality assurance reviews of control standards.</li> <li>Monitors and analyses risk indicators / loss data.</li> </ul>



















Concept	Main input	Advantages	Disadvantages			
Loss Distribution Approach (mainly top down)	Internal and / or External data	<ul> <li>Objective, if data is representative and sufficient, complete and accurate.</li> <li>Well known statistical concepts can be used to establish the capital charge.</li> </ul>	<ul> <li>Data might not be representative</li> <li>Data scarcity</li> <li>Statistical concepts</li> <li>Backward looking</li> </ul>			
Scorecard approach (mainly bottom up)	Risk and Control assessments	<ul> <li>Forward looking, if leading risk information (e.g. KRIs) is used.</li> <li>Utilises business experience and intelligence.</li> </ul>	<ul> <li>Subjective</li> <li>Aggregation issues</li> <li>Statistical concepts less well developed</li> </ul>			
Scenario approach (Top down and / or Bottom up)	Scenarios	<ul> <li>Utilises expert experience and their views methodologically to reduce bias.</li> </ul>	<ul> <li>Remains subjective</li> <li>Aggregation issues</li> <li>Issue of completeness (e.g. how many scenarios?</li> </ul>			



	Ind Frond	Four de Frances	Employ	Climate	D	During		C Total
LOSS EVENT TYPE	inu riauu	Exti Plauu	practices and Workplace Safety	Products and Business Services	Physical Assets	Disrupt. and System Failures	Process Mgmt	Total
BUSINESS LINE			_					
Corporate Finance	0.63%	0.04%	0.03%	2.03%	0.10%	0.02%	0.45%	* 0.89 3.51%
Trading and Sales	0.76%	0.52%	0.83%	2.48%	1.13%	0.23%	8.96%	14.9%
Retail Banking	4.26%	10.1%	4.36%	3.26%	1.12%	0.34%	5.45%	29.4%
Commercial Banking	0.27%	4.17%	0.26%	2.01%	13.8% 0.02%	0.23%	7.95%	29.0% 3.92
Payment and Settlement	0.29%	0.27%	0.15%	0.13%	0.19%	1.01% 0.07%	1.20% 2.92%	3.25% 3.15
Agency and Custody Services	0.00%	0.05%	0.10% 0.08% 0.13%	0.06%	1.28% 0.01% 0.03%	0.51% 0.03%	2.23% 1.77% 1.45%	4.25% 2.35 2.78%
Asset Management	0.12% 0.79%	0.04% 0.02%	0.65%	1.14% 2.03%	0.01% 6.58%	0.11% 0.36%	3.75% 1.25%	6.91 11.7%
Retail Brokerage	3.31%	42.4%	6.76%	7.17%	1.40% 24.3%	1.14% 2.73%	35.1% 29.4%	100 100%

Loss distribution for some local banks				
Loss causes	Event numbers	Number percentile	Amount percentile	
Human factors	1982	41.44%	54.66%	
Internal process	1756	36.71%	32.69%	
External events	525	10.96%	12.55%	
System factors	521	10.89%	0.10%	







