

Gaps in risk management

- No formal framework for risk appetite
- No clear process for approval of major trades
 - Vacuum created by departure of Warren Spector
 - Risk Management often given little time and information for review
- · Lack of coherent limit structure with consistent enforcement
 - Policies and limits not integrated into governance framework
 - Limits not based on consistent economic view of risk
 - Limits proposed by business and frequently overridden
- Underdeveloped processes for strategic risk assessment
 - Infrequent and ad hoc
 - Hampered by insufficient and poorly aligned resources
- · Lack of mandate for the Risk Policy Committee
- Lack of institutional stature for Risk Management group
 - Risk managers not effectively positioned to challenge front office decisions
 - Understaffed and low priority in IT queue
 - Cultural resistance to VaR and tail risk measures

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Leading risk management practice at peer investment banks

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Top-level risk	 Contains both business leaders and control function representatives 		
committee	 Responsible for risk policy approval, limit approval, and ongoing risk profile monitoring 		
Firmwide risk appetite	 Dynamic, explicit, and frequent discussion of risk appetite among top- level executives 		
Limit framework	Delegated limit system based on robust metrics		
	 Limits monitored and strongly enforced 		
Escalation and transparency	 Rapid and frequent escalation of all types of decisions leads to active dialog across all levels of the organization 		
	 Senior leaders involved in reviewing daily business decisions 		
Robustness of risk measurement	 Well-embedded VaR framework plus stress testing is the backbone of firmwide risk metrics 		
	 Risk measures updated multiple times per day 		
	 Universal banks: Economic Capital is well established as the primary firmwide risk metric 		
Risk Management organizational	 Risk Management staff respected as valued advisors and challengers to businesses 		
stature	 Successful front office personnel rotated through control functions 		
	 Compensation for Risk roles competitive with business line positions 		

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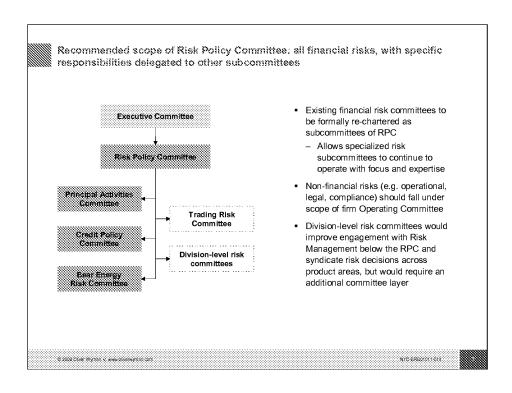
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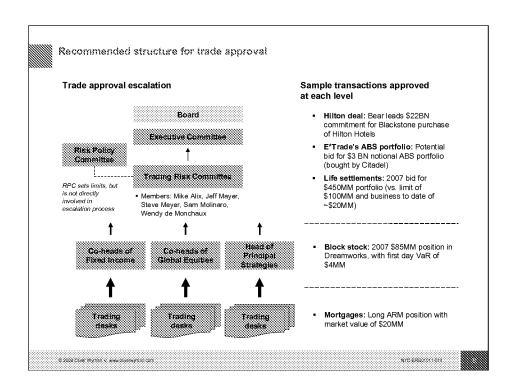
Oliver Wyman recommendations

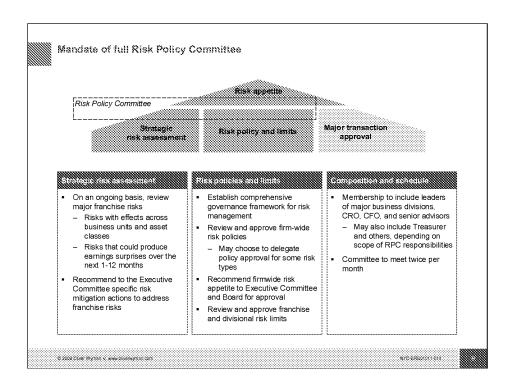
- Charter a top-level risk committee (the Risk Policy Committee) to govern all credit and market (financial) risks, with authority for specific risk areas delegated to subcommittees
- Create a 5-person Trading Risk Committee as a subcommittee of the Risk Policy Committee, with authority to review and approve large transactions above agreed business line limits
- 3. Mandate that the full Risk Policy Committee focus on two ongoing tasks: (a) risk appetite, policies and limit setting; and (b) strategic risk assessment
- 4. Expand the role of the Risk Management group to cover both independent governance/controls and effective dialog/advisory with the businesses at all levels of the organization

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Expanded role for Risk Management group

Group Risk Management roles

- Active dialog with business at all levels of the firm
- Thought leadership on franchise risks
- Limit and policy design
- Risk monitoring
- Analytics for regular reporting, strategic risk assessment, and business line support
- Regulatory compliance and reporting
- Risk middle office functions

Supporting practices

- Consistent early engagement with Risk by front office
- Cultural respect for Risk Management
- Rotation of respected traders into Risk Management
- Risk Manager compensation competitive with front office positions
- Adequate staffing (numbers and expertise) for expanded role
- CRO has (at least dotted line) authority over all risk control functions, including resources in business line
- Improved reliability and robustness of risk metrics
- Higher priority in IT spending

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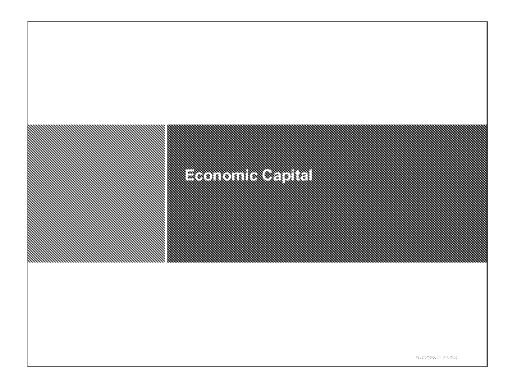
Recommended action plan - near and medium term

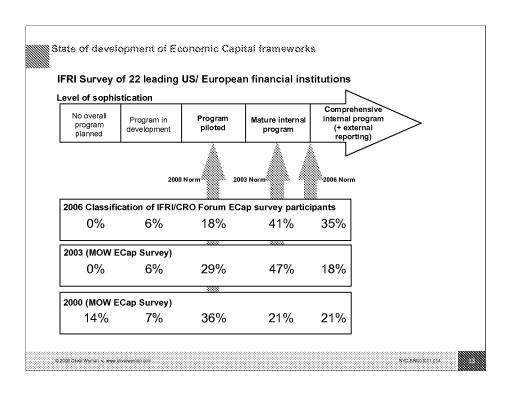
In month 1		By month 6		
Trade approval	Executive Committee Establish Trading Risk Committee			
Risk Policy Committee	Erretulitie Committee: Approve mendale of Risk Policy Committee	Fisk Policy Committee, Approve new and revised risk policies Risk Policy Committee, Fischlanter oil risk committees under umbrella of Risk Policy Committee. Committee		
Limits	Flork Management: Review entoting leads to identify region increases encies and unquies at art form socialism. Flork Policy Committee: Approve proposed short-term changes to limit framework. Risk Policy Committee: Accord formal enforcement of encoding limits and policies.	Fibs Management, Entablish version 1 in of Economic Cables Immerces. Risk Management: Conduct condictor re-design of both framework, and jointly process find (seves with boshnoods. Risk Policy Committee: Approve limit framework and levels.		
Strategic risk assessment	 CRO: Assign one SMD and one more junior resource to temporarily head up strategic risk assessment 	CRO: Hire senior resource to head up Strategic Risk Assessment group reporting to ORO CRO: Hire staff for energytical team.		
Risk Management group	Plak Policy Committee. Approve of new mendate for 86sk. Menagement group: CRO Politing step to edge. Box organization to new mandate, with resonated resonance and cost implications.	CRO. Him additional risk personnel, preferably individuals with successful front office experience CROCRO: Clarify organizational responsibilities for price varification.		

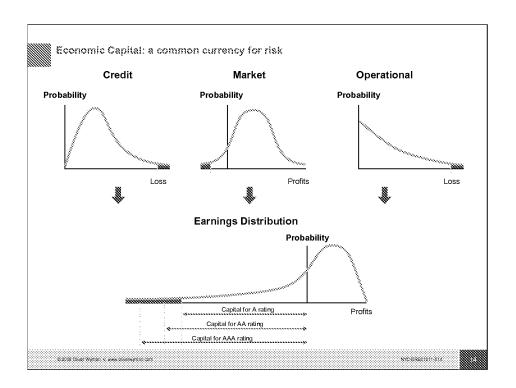
Governance Project Personnel Infrastructura

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Economic Capital objectives for Bear Stearns

- Provide a universal risk metric
 - Currently a vacuum in risk measurement tools, as no single metric for financial and nonfinancial risks
 - No way to compare and aggregate different kinds of risk on an apples-to-apples basis
- Allow firmwide risk appetite to be translated into top-level limits
 - Economic Capital is especially useful for expressing a firmwide risk appetite, and for rendering that appetite into limits for major business lines
- Express an internal view of capital required
 - Regulatory capital is a flawed view of the actual capital required to support overall risks taken
 - As an internal view, Economic Capital can improve capital adequacy and capital planning
- Perform strategic capital allocation and optimize Bear Stearns's business portfolio, using such measures as business-line return on capital
 - Economic Capital is the best way to understand the true capital requirements of major business lines on a standalone basis
- Communicate more effectively with external constituencies
 - Economic Capital is a global industry standard, and is likely to become a universal regulatory requirement
 - Regulators and rating agencies are looking for robust economic capital programs

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	Phase 1: Development	Phase 2: Rollout		Phase 3: Embedded Use
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Calculation methodology	Development of version 1.0 and first-pass results	Ongoing refinements to market and credit risk models	 Incorporation of op- risk scenario analysis 	Stable version 2.0 methodology Model validation
Risk management		maniforing • Risk reparting	 ECap-based limits Integrated stress testing Capital forecasting 	ECap-based risk appetite framework Risk decisioning
Business management		measurement	Strategic capital allocation Target setting	Performance drill- down (incl. link to compensation) Strategy/planning
Compliance/ communication		Results used for EU regulatory submissions	Sharing of results and methods with US regulators and rating agencies	Possible disclosure of high-level results to investors
Infrastructure	 Identification of high-level systems requirements 	Automated extraction of data inputs	Systematized calculation	Reporting automation