



Risks Management in Complex and Dynamic Systems

Moving away from traditional ways

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Agenda

- 1. Traditional approach . an overview
- 2. Risk Management in complex and dynamic systems



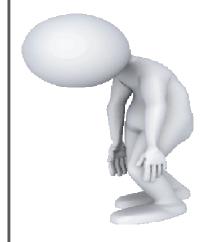
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Perception of Risk



HINDERANCE

The internal audit syndrome

If my risks are known/high/reported – I am a bad performer

Am just too busy for risk management – professional issues managers



Risk management – governance structure

Mostly, no risk management unit/department

Risk function is in the internal audit department

Risk manager usually a junior officer – no say in senior management



Reporting lines

One way reporting – bottom-up

Senior management limiting reported risk intelligence to CEO/MD

Top management limiting reported information to Boards



Boards' oversight

Not empowered

No questions asked

No Board risk committee



Internal audit

Usually in charge of risk management

Identifies risk and then audits - 'risk-based audit'

No value additions – just reporting

A risk management unit within Audit if lucky



Risk Registers

Normally auditors property

Little to tell

Been the same last 2-5yrs

Developed from desk-top risk assessment



Risk Registers

RISK REGISTER PROCUREMENT DEPT.

	T .	T	T	T		ı
FUNCTIONAL	PROCESSES/	RISKS	RISK EVALUATION/	RISK MGT PLAN	IMPLIMENTATION/	MONITORING AND
AREA	ACTIVITIES	IDENTIFIED/RISK	MEASUREMENT	CONTROL/	RISK TREATMENT	REVIEW.
		FACTORS		TREATMENT.	OPTIONS/ACTIONS	
PROCUREMENT	PURCHASE OF	 Poor quality 	į) Perform	 Select capable and 	Choose the best	Monitor performance
Department	GOODS/SERVICES	goods/servi	periodic due	competent	option/combination	against targets to
		ces. Low	diligence of	suppliers and	of controls and	ensure controls are
		pricing of	vendors using a	develop standard	implement by taking	effective and efficient
		goods by	risk-based	specifications to	action.	
		the	approach.	meet quality		
		suppliers		required.	Implement control	
		and poor	ii) Analyze	Use procurement	measures to reduce	
		specification	procurement	methods as per	the impact.	
		S	trends, payment	the Public		
		High prices	patterns, and	Procurement and	Consolidate vendors	
		of goods	changes in the	Disposal Act.	and streamline	
		increase in	mix of products	Improve planning	procurement	
		cost and	and services	Appraisal of	processes.	
		over	procured to find	supplier		
		budget/insu	indications of	performance to		
		fficient	wasteful or	ensure a lean		
		funding.	collusive	supply base with		
		Continuity	behavior.	enough capacity		
		of supply.		to avoid delay in		
		Security for		delivery or non		
		supply of		delivery		
		critical		4. Availability of		
		goods		appropriate Skills.		
		4. Biased		5. Agree on prices		
		specification		and a formula for		
		s hence		calculating		
		inadequate		variations.	[



Risk reports

No specific risk reports

Long reports

Generic reports as opposed to targeted reports – one size fits all



Agenda

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Perception of Risk



ENABLER

Risk owned by ALL staff

Freely reported and shared

Applied in decision making



Risk in a complex & dynamic system

Risk: the effect of uncertainty on objectives

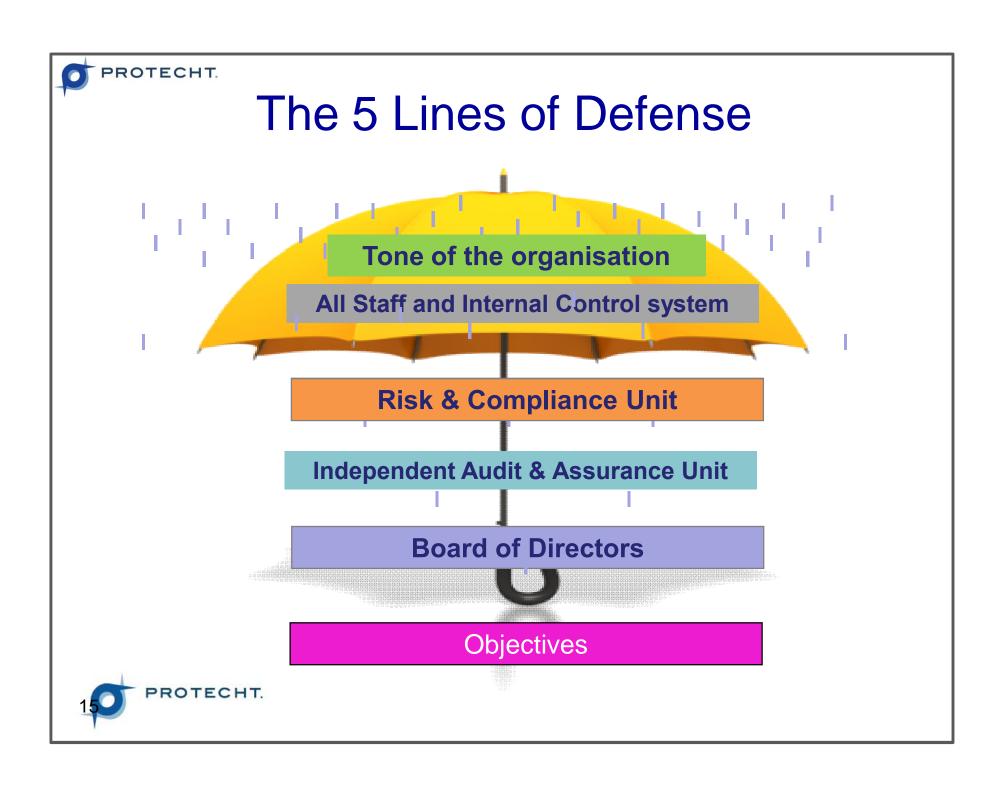
ISO 31000: Risk Management - Principles and Guidelines



Risk Management is really Objectives

Management is really Outcome Management

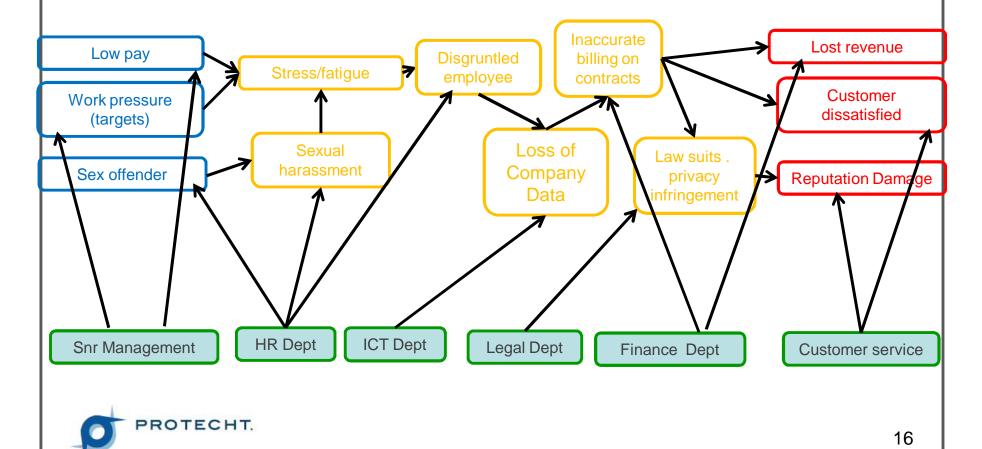


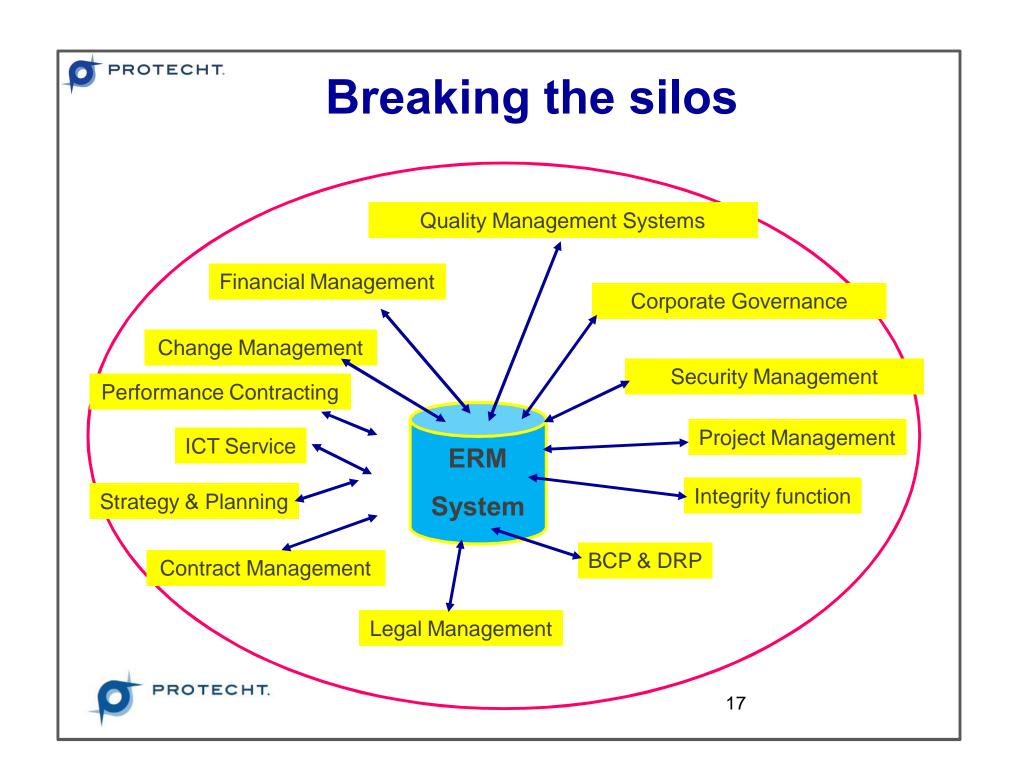


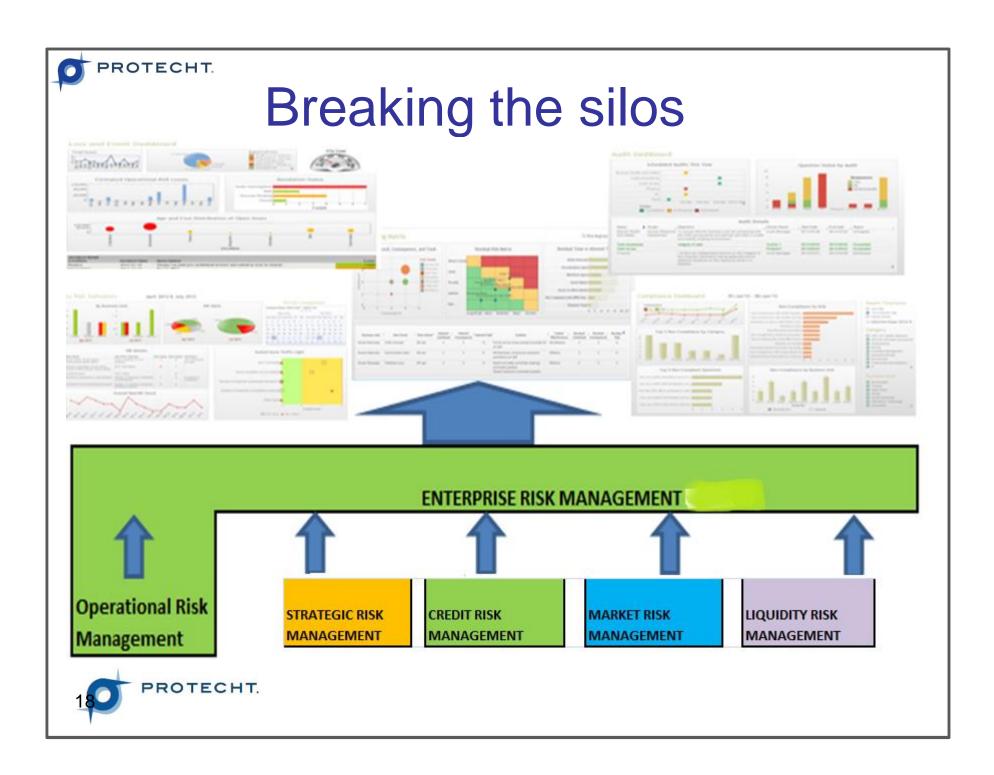


Integrated approach

All inclusive – no island functions within the organization









Integrated into day-to-day - the Use Test

- Risk information is used by management in decision making
- Make decisions based on reward / risk
- " Staff think about risk as part of their everyday jobs
- Staff have some part of incentive plan linked to risk management
- Staff have some element of risk management included in their job role

Leading to õ ..

Risk Management is not mentioned as a separate concept. It is integrated into day to day business.





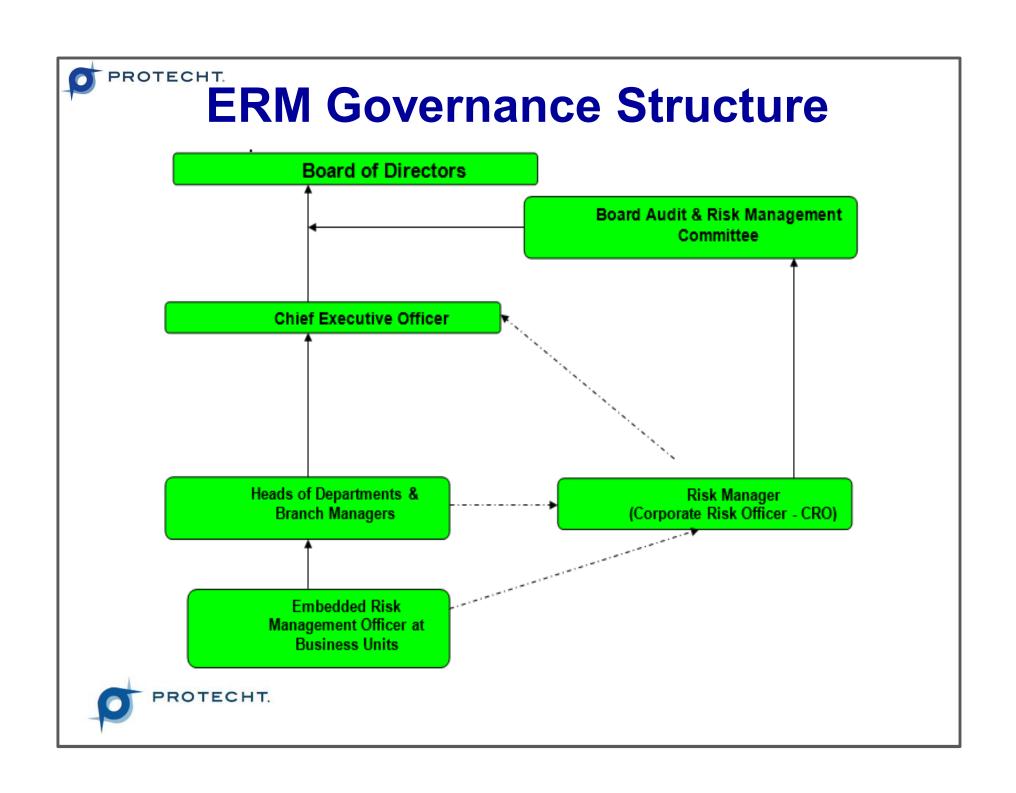
Prominence given to risk management

Risk manager part of senior/top management

All reports are risk-based

Risk language used in all meetings





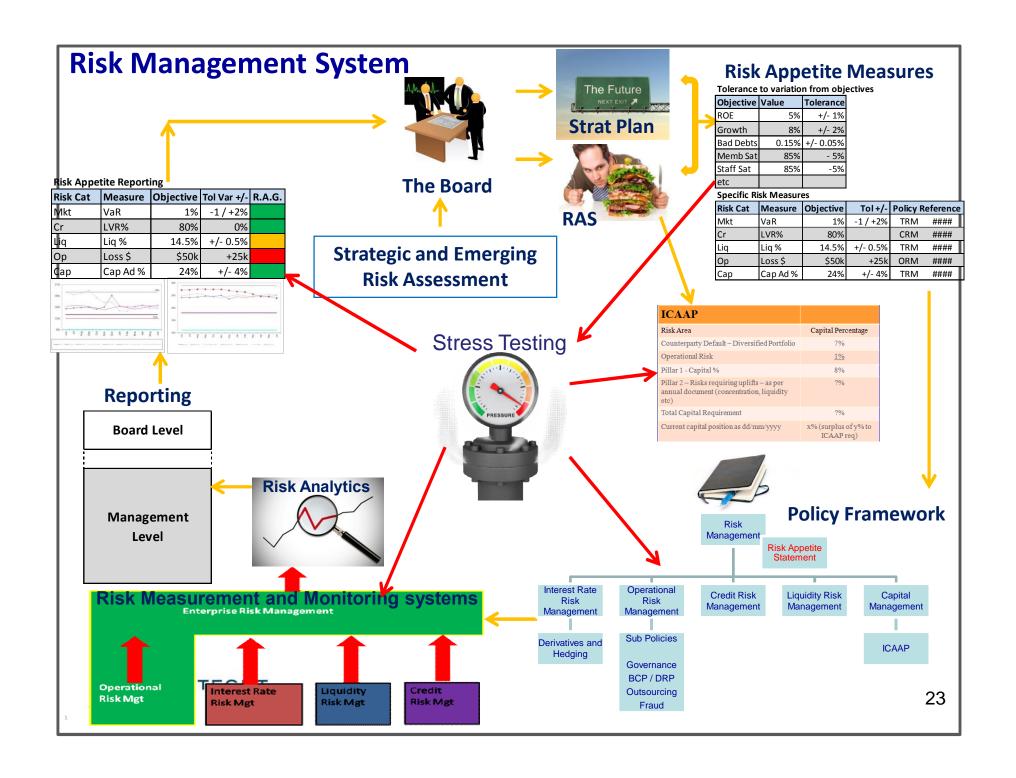


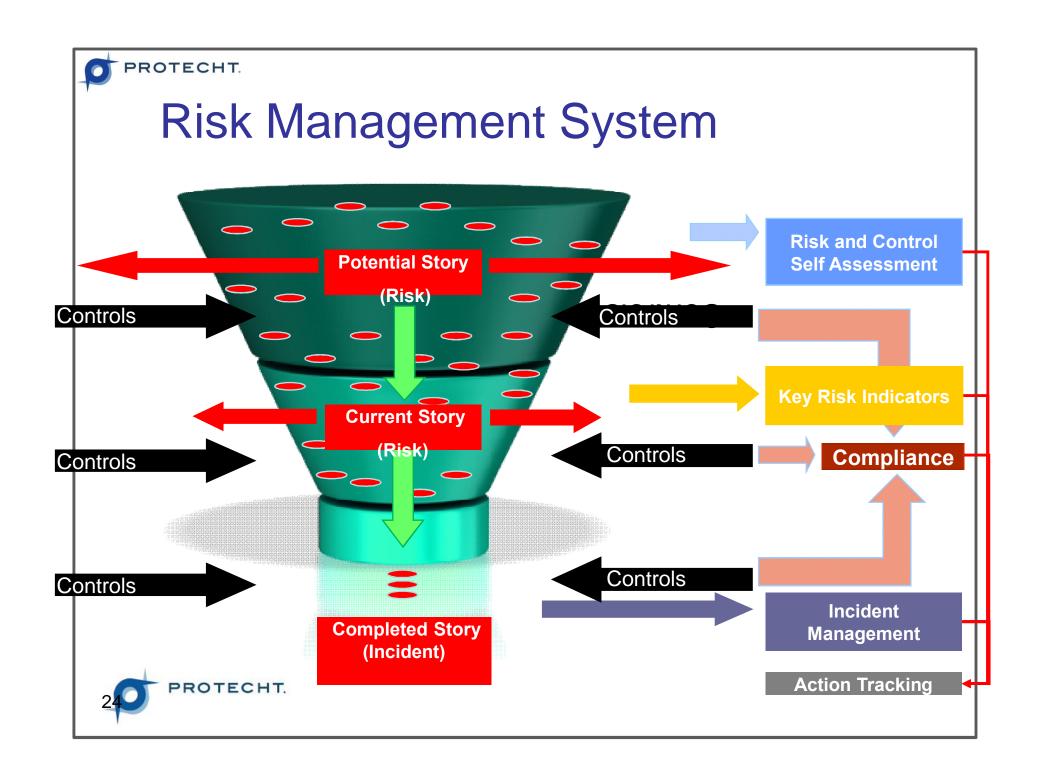
Meticulous risk management systems

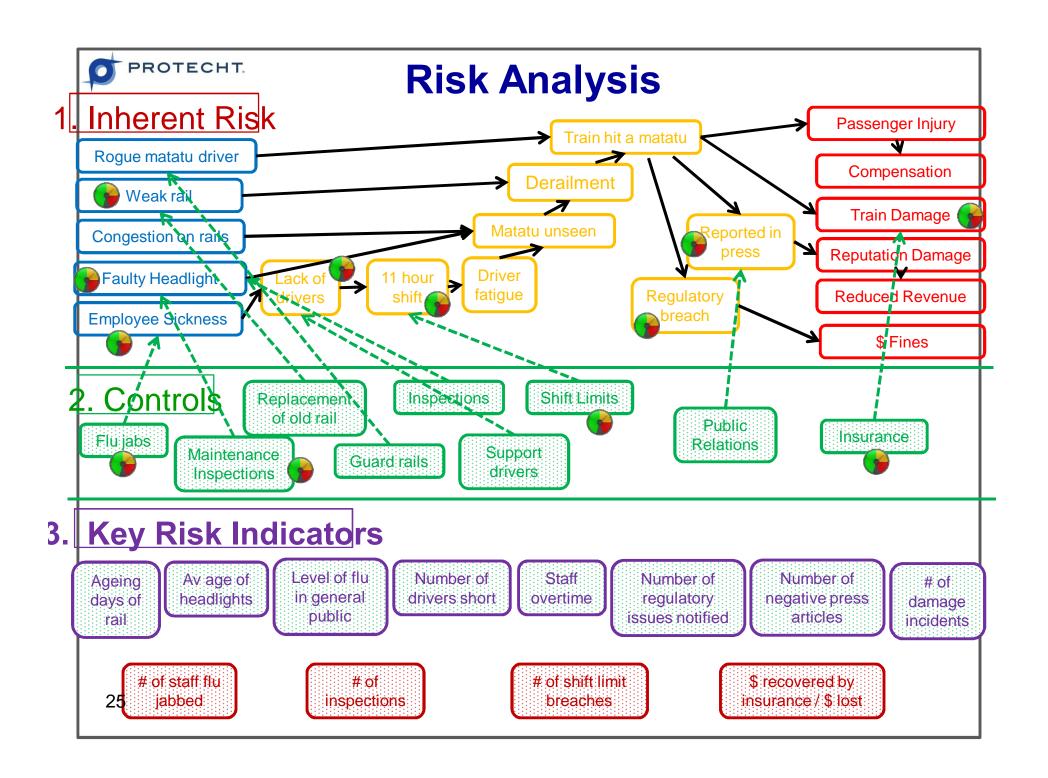
Not just a risk register

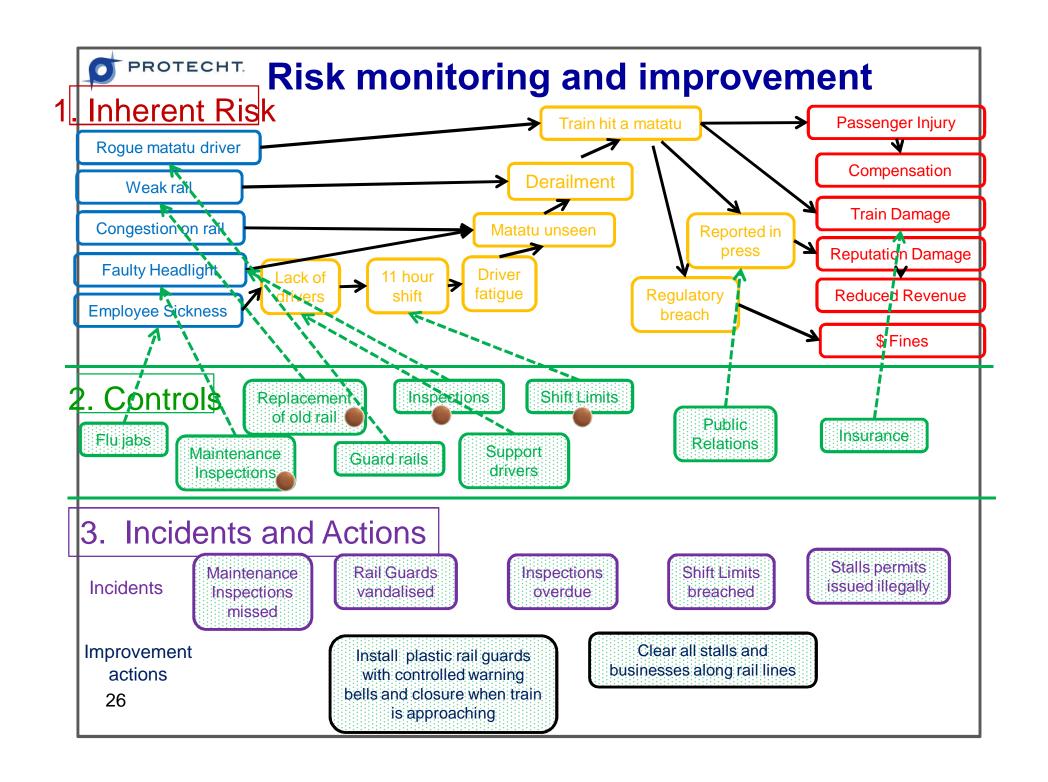
System caters for linkage to objectives, comprehensive risk assessment, monitoring and continuous improvement













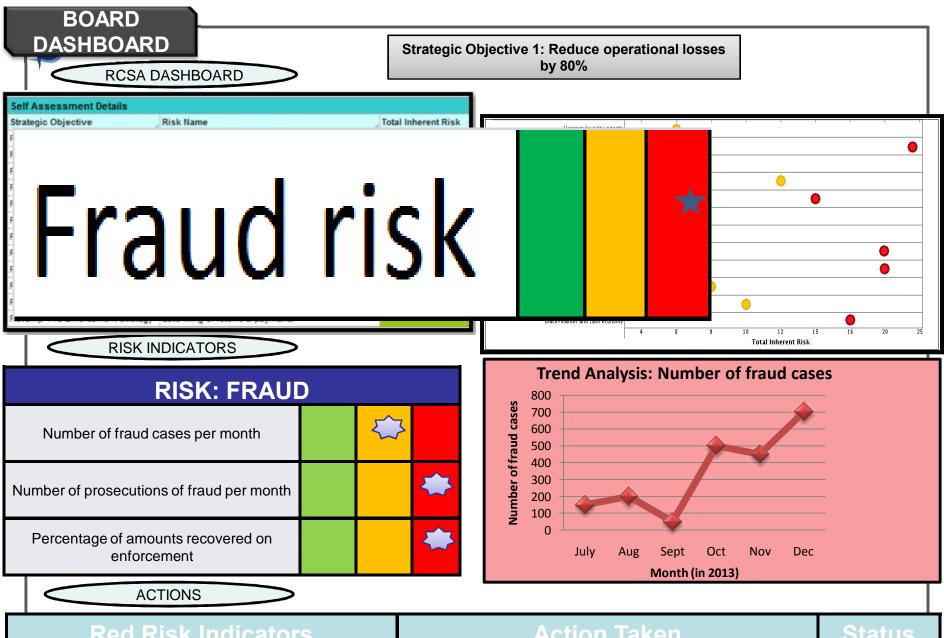
Effective Board on risk management

Defined Board Risk Appetite Statement – not just likelihood & consequence matrix

Established board risk committee

Reporting from Risk Manager

Questions asked by board



Red Risk Indicators	Action Taken	Status	
Number of prosecutions of fraud per month	Engage 5 law firms to speed up prosecution process	Overdue	
Percentage of amounts recovered on enforcement	Prioritize recovery of amounts greater then 100 million	WIP	



TOP 10 RISKS Report

TOP 10 RISKS	Total Risk Score		Risk and Control Self Assessment Results as at June 2009 Key: Green 0-4, Amber 5 – 14, Red 15-26				Key Controls Compliance for month	npliance Indicators		Action Plans outstanding		Risk Incidents			
			Average bra	Average branch score		Worst branch score				Total	Overdue	Month		Year to Date	
			Inherent risk –	Residual risk –	Inherent risk –	Residual risk –	Yes % No								
Risks			Before controls	After controls	Before controls	After controls	%					#	\$m	#	\$m
1. Potential Breach of Food Safety legislation			16	14	25	16	97 3	•		7	2	2	2.10	24	13.20
2. Potential Breach of OH&S legislation		•	16	8	20	10	92 8		•	16	0	4	0.90	32	9.10
3. Excessive controllable expenses		•	12	7	15	7	100			10	6	2	0.20	12	1.10
4. Excessive inventory holdings		•	16	6	16	6	96 4	•		34	12	6	4.70	8	5.00
5. Loss of stock		•	15	6	20	6	98 <mark>2</mark>		•	22	2	1	1.20	4	3.20
6. Loss of key employee(s)		•	9	5	12	7	N/A ¹			3	1	0	0.00	2	1.10
7. Loss of cash		•	10	4	12	5	97 3	•		6	2	2	0.02	3	0.25
8. Loss due to incorrect receipting process			9	4	12	5	94 6		•	16	1	5	0.43	14	0.92
9. Inadequate product ranging	•		6	4	12	5	N/A ¹		•	12	8	2	1.60	17	7.50
10. Uncompetitive prices and margins	•		6	3	12	3	97 3	•		10	9	1	1.10	3	22.40



Risk Culture

- Level of Risk Awareness
- 2. Freeness of communication. Strong and open communication. whistleblower
- 3. Understanding of: objectives, risks, controls
- 4. Seriousness to £ontrol complianceq
- 5. 垂ime to complacencyq
- 6. Integrity / ethics / honesty / corruption
- 7. Take responsibility
- 8. Simplicity, ease and level of understanding, keeping it real etc.





Risk Awareness

Where are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we

There are known Unknowable.

Low L,

High I

know we don't know.

But there are also
unknown unknowns.
There are things we
don't know we don't
know.+

Knowable.

Med L,

Med I

Donald Rumsfeld



The end result = Risk Smart

- Performance measure is a function of performance and risk management.
- 2. Optimized, risk management principles and processes are integrated in the management and operational process.
- 3. Intuitive understanding of Risk management and full commitment by all staff levels.
- 4. Risk management is adaptive and proactively developed and managed.
- 5. Extensive experience and high level qualifications with proactive training of staff on risk management.
- 6. Active measurement of risk management.



Ultimate Enterprise Risk Management



Making Decisions on a Reward / Risk basis

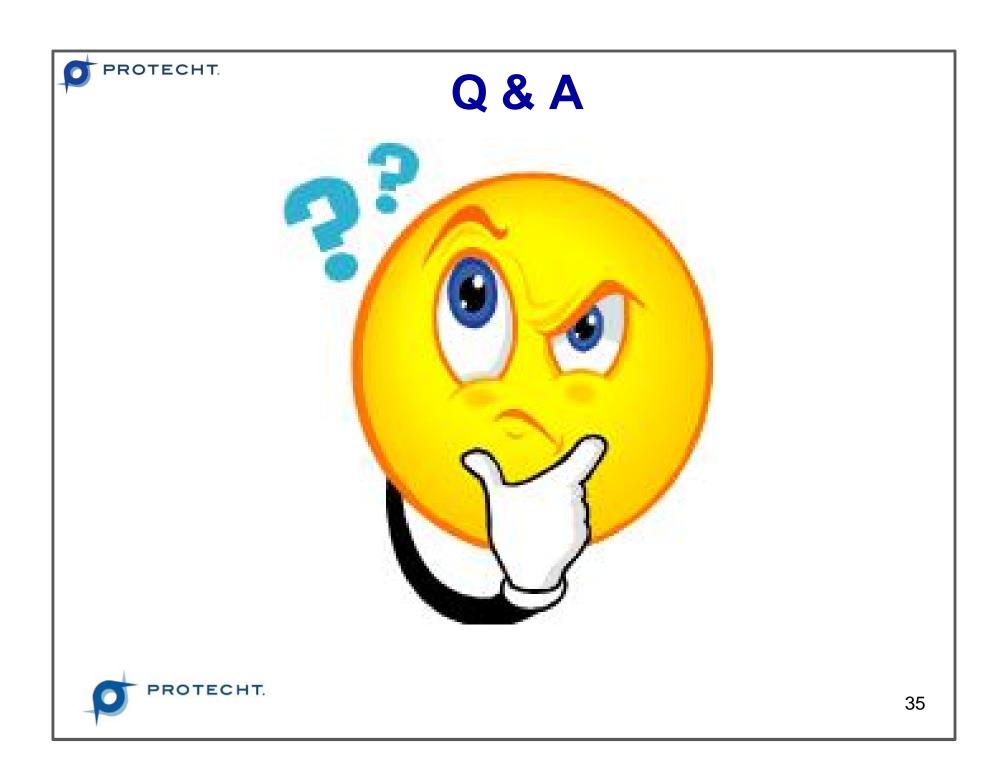


Risk Management. where are you?













Thank You

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