

**CHASE COOPER**  
*creating corporate value*

## Risk Appetite Breakfast

Wednesday 19<sup>th</sup> March 2014

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# Agenda

- ▶ Different risks have different types of appetite
- ▶ What level should be selected?
- ▶ Using a consistent methodology
- ▶ Developing appetite from your risk register
- ▶ Different ways of describing operational risk appetite?
- ▶ Practical examples of OR appetite reports

## Different risks: different appetite types

- ▶ Financial (quantitative) risk
  - ❑ Market risk
  - ❑ Credit risk
  - ❑ Insurance risk
- ▶ Non-Financial (qualitative) risk
  - ❑ Operational risk
  - ❑ Reputation risk
  - ❑ Strategic risk

# Do you differentiate between Financial and Non-Financial risk appetite?

► 1 for Yes

► 2 for No

► Financial risk

- ❑ Market risk
- ❑ Credit risk
- ❑ Insurance risk

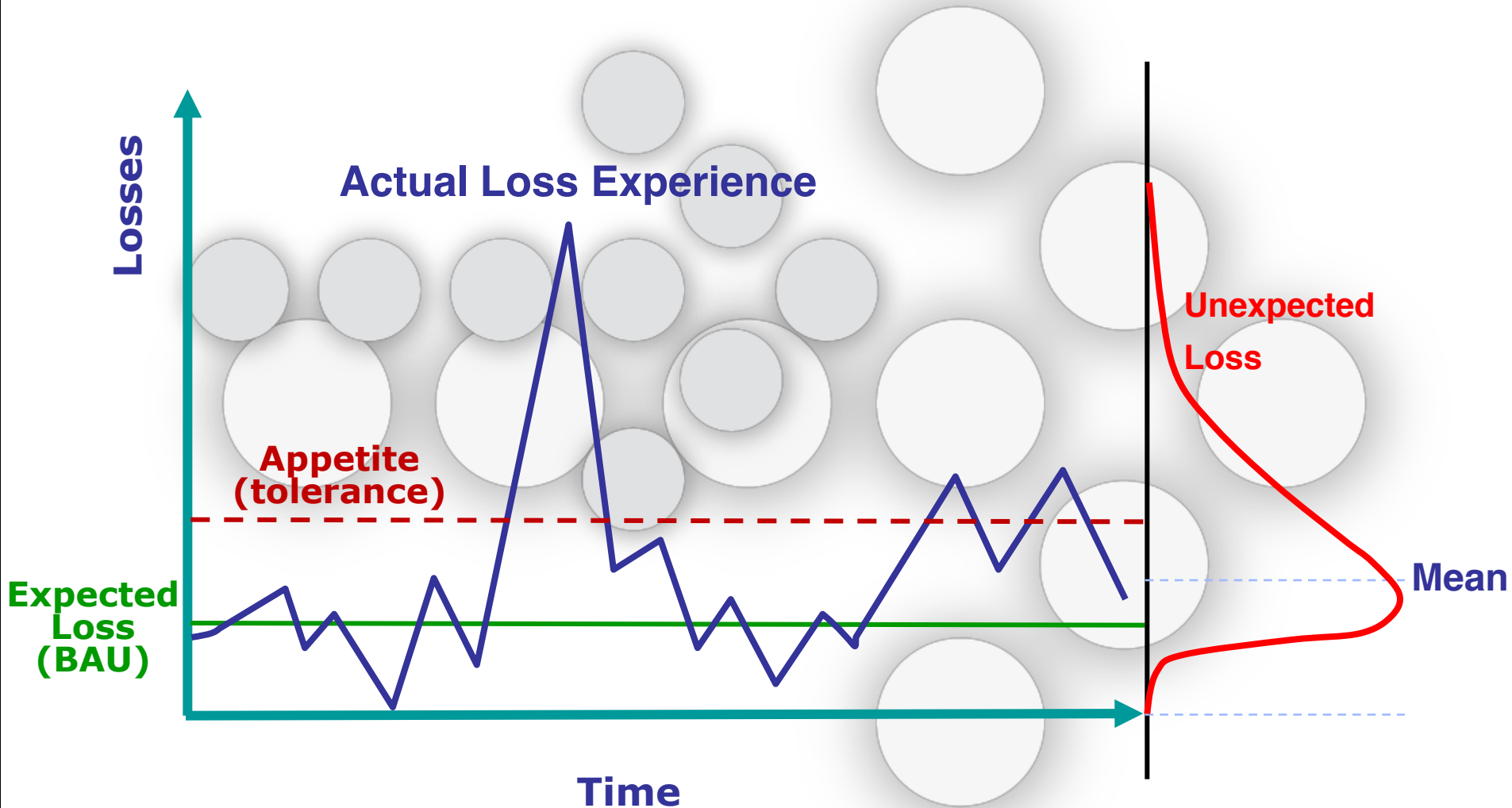
► Non-Financial risk

- ❑ Operational risk
- ❑ Reputation risk

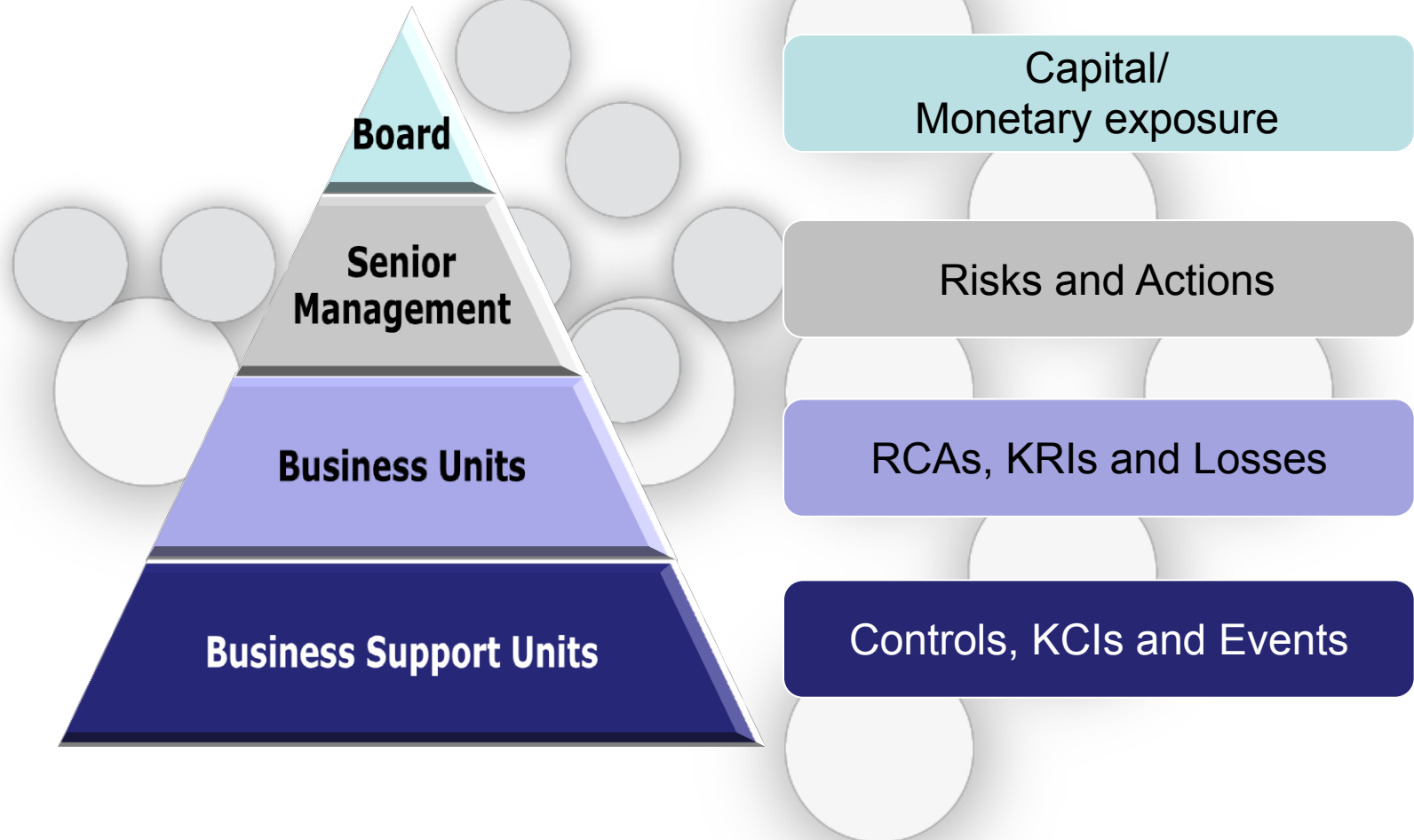


*"'Be careful'! All you can tell me is 'be careful'?"*

# What level should be selected?



# Apply an appropriate yet consistent methodology

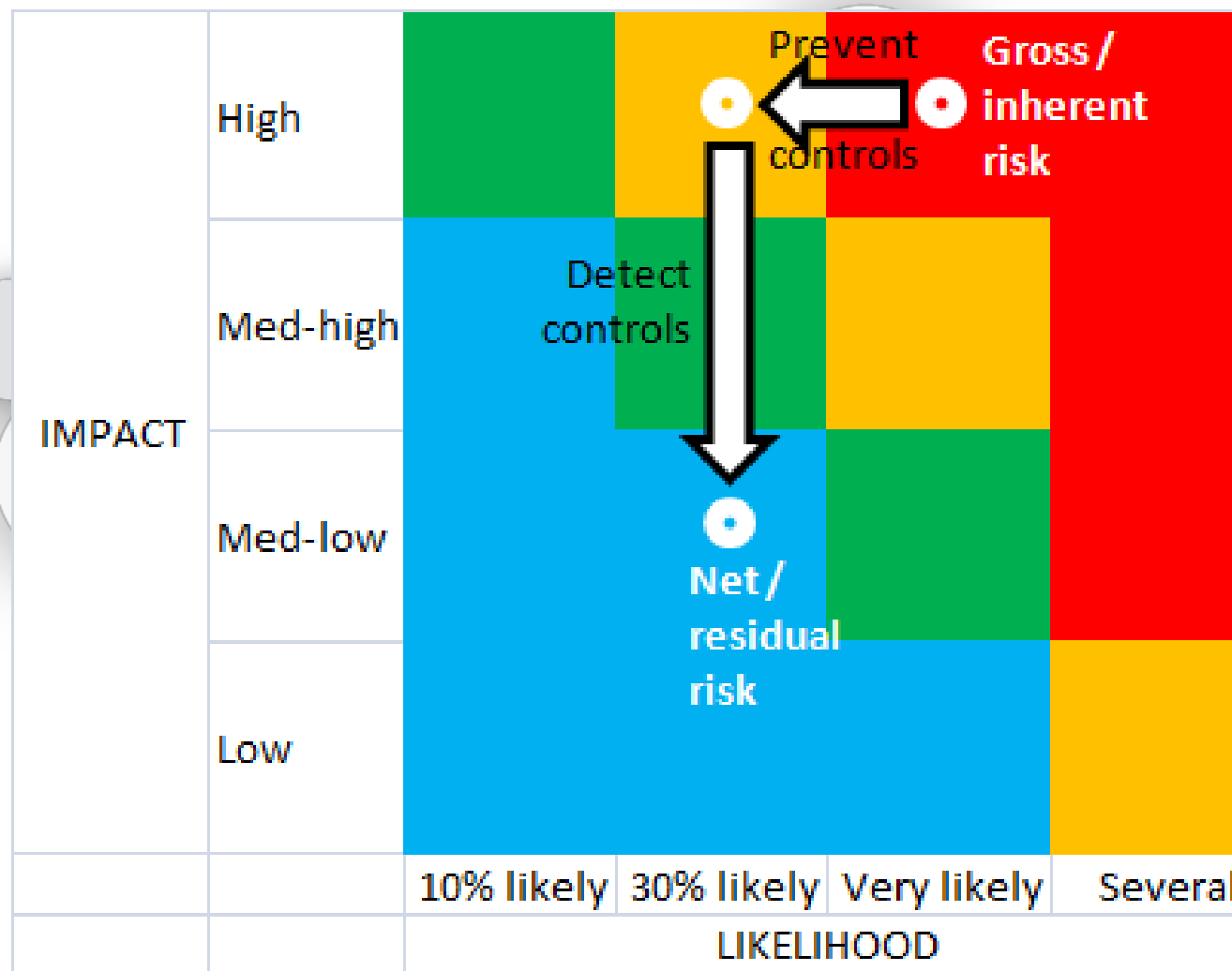


## Developing your appetite from your risk register


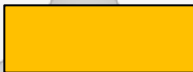


- ▶ Use your assessments of your inherent and residual risk, coupled with your control assessment
- ▶ Directive and preventative controls affect likelihood
- ▶ Detective and corrective controls affect impact
- ▶ So, if your controls were working as well as you would like:
- ▶ What is the residual likely to be (and are you comfortable with that level?)



## Effects of control types on a risk



## Let's do one together

- ▶ We will think about the
  - Impact Appetite and
  - Likelihood Appetite
- ▶ You should consider
  - 4 =  High
  - 3 =  Medium-high
  - 2 =  Medium
  - 1 =  Medium-low

# A Generic Risk and Control Profile

ID	Risks	I I	I L	R I	R L	T I	T L	Controls	D	P	E
1	Failure to retain key staff	4	4	4	3			-Salary surveys -Training and mentoring schemes -Retention packages for key staff	2	2	4
2	Financial advisors misinterpret / fail to understand the complexity of "equity release" products	4	4	3	2			-Staff training -Learning gained from previous deals -Review of individual needs in performance appraisal process -Procedure manuals for processes	4	4	16
3	Poor staff communication	4	4	4	3			-Defined communication channels -Documented procedures and processes	4	3	12
4	Failure to understand the law and/ or regulations	4	3	4	2			-Internal training courses -Regular updates from various sources -External training courses	4	4	16
5	Poor detection of money laundering	4	3	4	2			-AML annual training -Circulation of BBA awareness circulars -KYC	3	2	6

## Acronyms used:

- II: Inherent Impact
- IL: Inherent Likelihood
- RI: Residual Impact
- RL: Residual Likelihood
- TI: Target Impact
- TL: Target Likelihood
- D: Design
- P: Performance

# Do you use Target Appetite as one way to express your appetite?

- ▶ 1 for Yes
- ▶ 2 for No

ID	Risks	I I	L L	R I	R L	T I	T L	Controls	D	P	E
1	Failure to retain key staff	4	4	4	3			-Salary surveys -Training and mentoring schemes -Retention packages for key staff	2	2	4
2	Financial advisors misinterpret / fail to understand the complexity of "equity release" products	4	4	3	2			-Staff training -Learning gained from previous deals -Review of individual needs in performance appraisal process -Procedure manuals for processes	4	4	16
3	Poor staff communication	4	4	4	3			-Defined communication channels -Documented procedures and processes	4	3	12
4	Failure to understand the law and/or regulations	4	3	4	2			-Internal training courses -Regular updates from various sources -External training courses	4	1	4
5	Poor detection of money laundering	4	3	4	2			-AML annual training -Circulation of BBA awareness circulars -KYC	3	2	6

## **Different ways of describing operational risk appetite**

- ▶ Risk and control assessment
- ▶ Key indicators (both risk and control)
- ▶ Losses
- ▶ Risk Modelling
- ▶ Capital Modelling

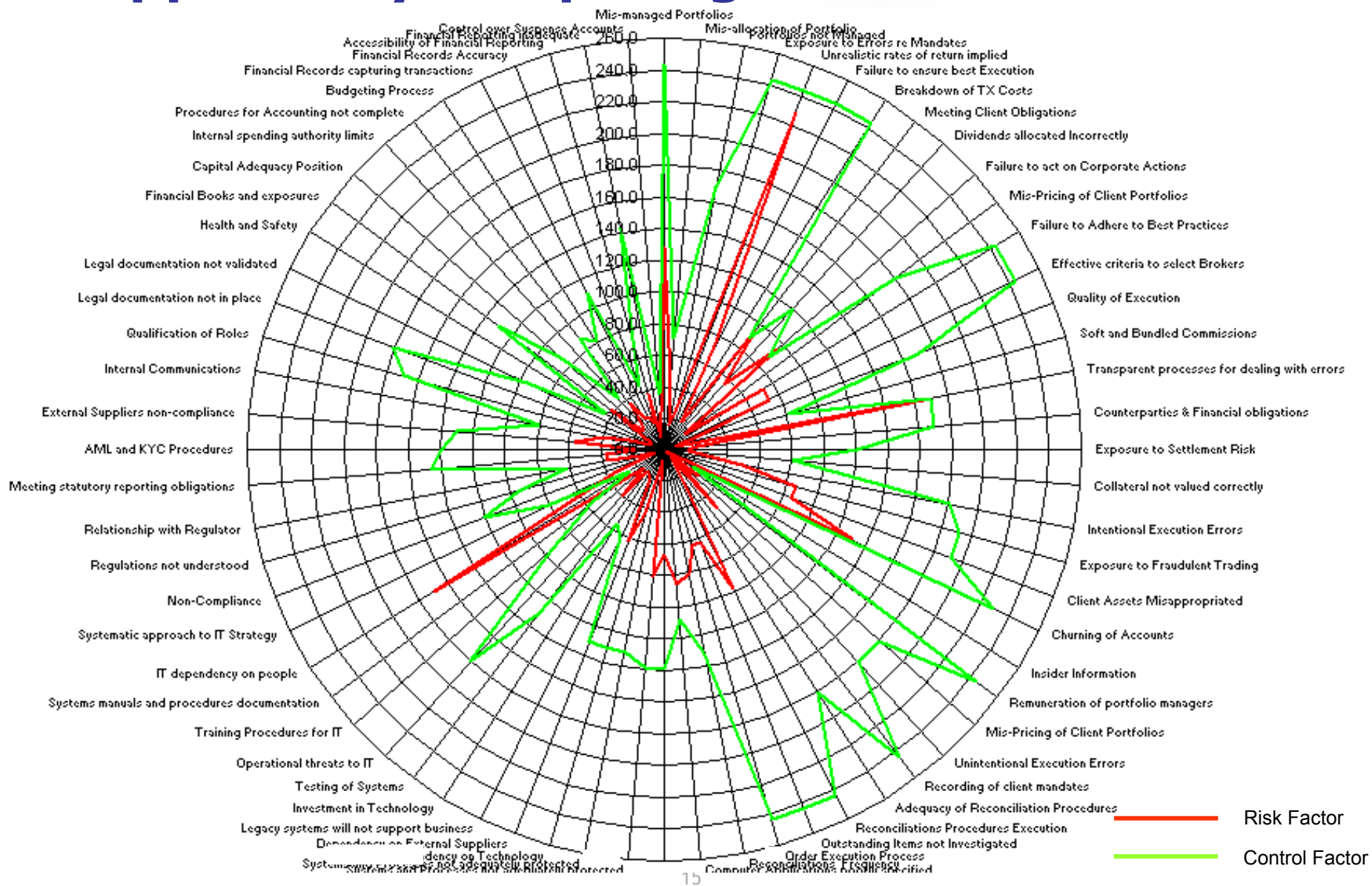
# How many different ways do you describe your OR appetite?

► Vote:

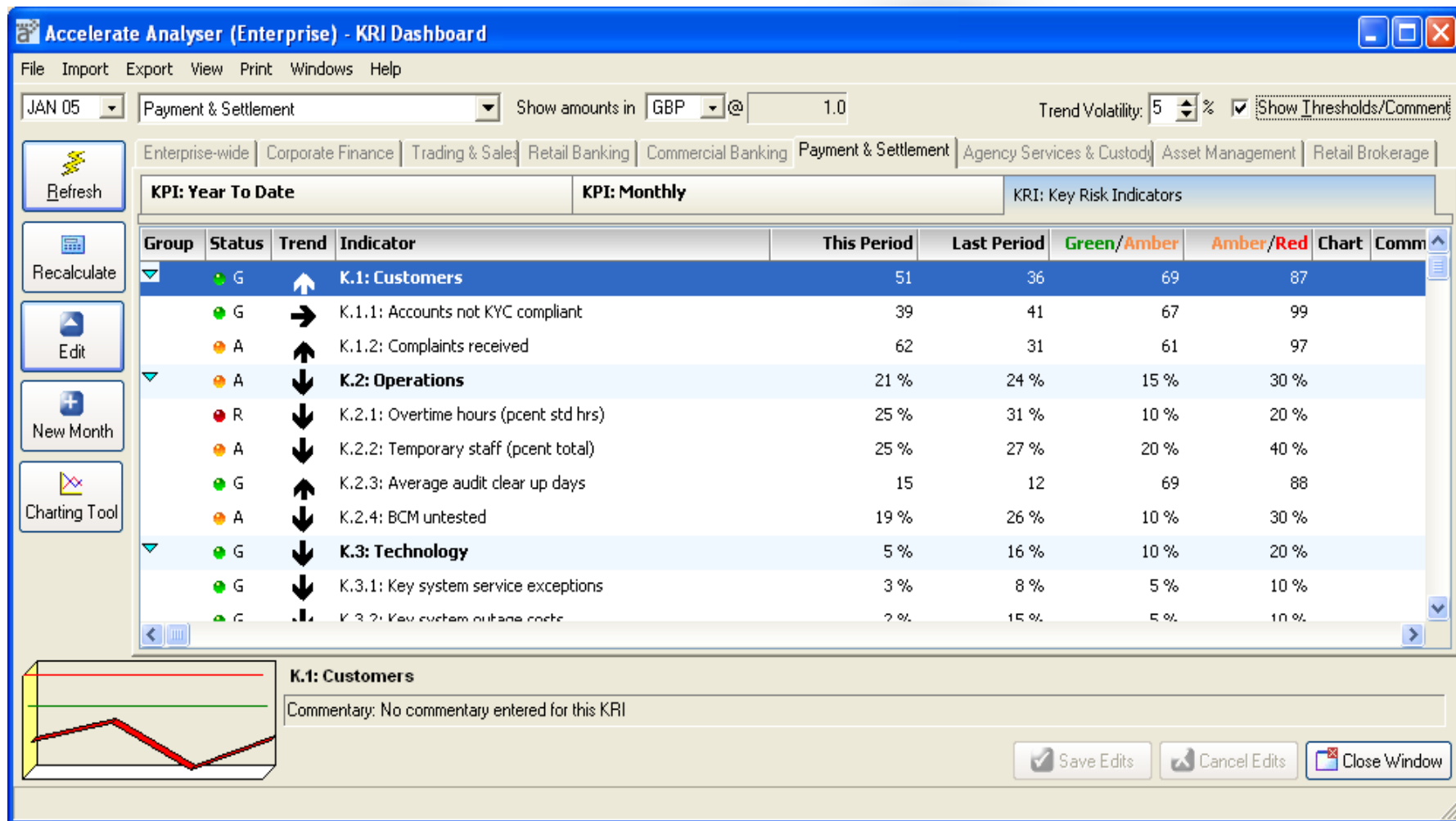
▫ 1, 2, 3, 4 or 5

- Risk and control assessment
- Indicators (both key risks and key controls)
- Losses
- Risk Modelling
- Capital Modelling

## Appetite by comparing risk to controls



# Appetite by threshold





# Appetite by number of losses

(Economic Capital Optimiser)

Source Data | Goodness of Fit | **What If** | Correlations | Outputs | Chart

**View**

☒ LDA Internal  
☐ LDA External  
☐ CRSA  
☐ Combined (Classical)

View in: full

! Reset Calculate

Total Capital Charge: 282,616,256

**Selected Cell**

Corporate Finance  
Internal fraud

**LDA Internal**  
☒ Absolute  
☐ Monte Carlo

**LDA External**  
☒ Absolute  
☐ Monte Carlo

**CRSA**  
☒ Absolute  
☐ Monte Carlo

**Combined**  
☒ Absolute  
☐ Monte Carlo

Percentage Weight: 50

☒ Number of Loss Events: 44  
☐ Mean Severity of Losses: 80,658  
☐ Std Deviation of Losses: 104,540

↑ Current View

	Internal fraud	External fraud	Employment Practices & Workplace Safety	Clients, Products & Business Practices	Damage to Physical Assets	Business Disruption & System Failures	Execution, Delivery & Process Management
Corporate Finance	44	12	95	22	77	44	63
Trading & Sales	24	12	39	11	74	30	10
Retail Banking	22	79	21	46	38	10	14
Commercial Banking	35	10	35	10	18	35	3
Payment & Settlement	25	59	89	32	35	9	47
Agency Services	41	54	46	36	94	1	94
Asset Management	20	72	85	77	56	77	85
Retail Brokerage	56	16	27	98	55	97	46

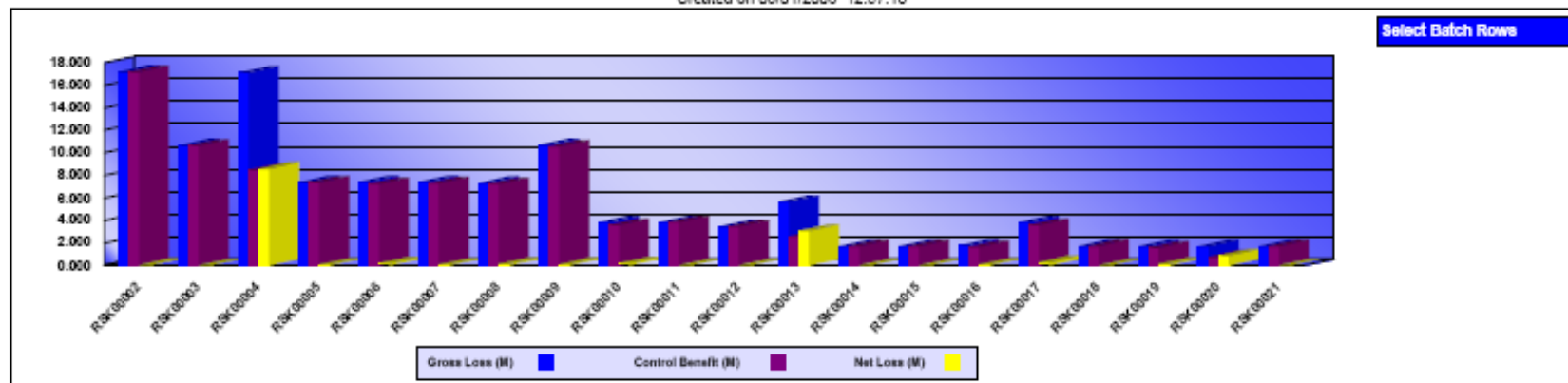
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# Appetite by monetary exposure by risk

Risk Results [Sim1 99.9 50000 seed1(50) - Session: 1 Sample Retail Bank(14) - Quantile: 99.90%]

Time Frame Factor: 1 - Iterations: 50,000 - Seed: 1

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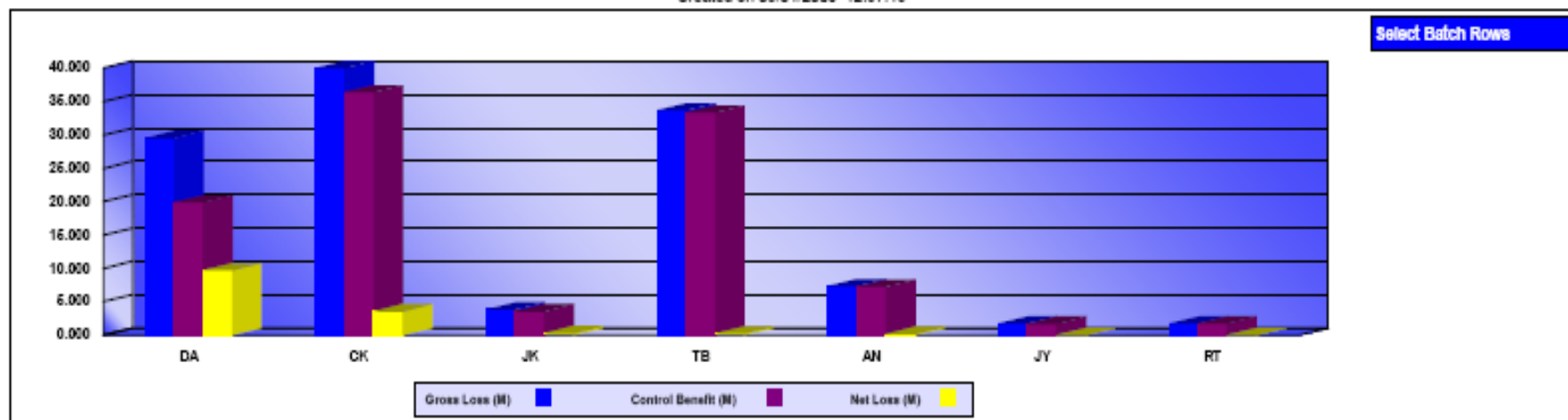
Risk	Risk Owner	Gross Loss GBP (M)	Control Benefit GBP (M)	Net Loss GBP (M)
RSK00002 Failure to attract, recruit and retain key staff	TB	17.203	17.162	0.041
RSK00003 Financial advisors misinterpret / fail to understand the com	CK	10.661	10.645	0.016
RSK00004 Poor staff communication	DA	17.114	8.518	8.596
RSK00005 Failure to understand the law and/or regulations	CK	7.402	7.345	0.057
RSK00006 Poor detection of money laundering	AN	7.421	7.233	0.188
RSK00007 Insufficient funds/deposits to cater for lending activities	TB	7.416	7.323	0.093
RSK00008 Over-selling credit cards	TB	7.335	7.219	0.116
RSK00009 Over-deployment of management resources on regulatory issues	CK	10.690	10.581	0.109
RSK00010 Failure to capture market opportunities	CK	3.833	3.608	0.225
RSK00011 Over-dependency on outsourcing	DA	3.831	3.831	0.000
RSK00012 Weakness in information security system	DA	3.471	3.449	0.022
RSK00013 Inadequate or insufficient IT infrastructure to achieve busi	CK	5.662	2.577	3.085
RSK00014 Poor employee incentives	DA	1.727	1.727	0.000
RSK00015 Increasing external fraud activities	JY	1.722	1.695	0.027
RSK00016 Failure to grow staff competencies	CK	1.750	1.671	0.079
RSK00017 Misaligned employee goals	JK	3.872	3.580	0.292
RSK00018 Failure to sense and eliminate internal fraud	RT	1.744	1.744	0.000
RSK00019 Unfit or inappropriate new products launched	DA	1.716	1.566	0.150
RSK00020 Poor strategic decision making	DA	1.702	0.797	0.905
RSK00021 Inaccessible premises	TB	1.715	1.696	0.019
		117.987	103.967	14.020

# Appetite by risk owner

Results by Risk Owner [Sim1 99.9 50000 seed1(50) - Session: 1 Sample Retail Bank(14) - Quantile: 99.90%]

Time Frame Factor: 1 - Iterations: 50,000 - Seed: 1

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Risk Owner	Gross Loss GBP (M)	Control Benefit GBP (M)	Net Loss GBP (M)
DA	29.551	19.688	9.673
CK	39.997	36.427	3.570
JK	3.872	3.580	0.292
TB	33.658	33.399	0.259
AN	7.421	7.233	0.188
JY	1.722	1.695	0.027
RT	1.744	1.744	0.000
	117.985	103.966	14.019

# Appetite by monetary exposure by BLET

Chase Cooper - ECO v1.1.6.3

Load Import Save Save As Delete Refresh Calculate

File Data Tools Help

Viewing Session: **1 Sample Retail Bank 50,000 99.9 seed1**

Source Data Distribution Function What If Correlations Output Chart

View Monte Carlo Set Up Selected Cell Details

Capital Charge:

Actual:

Report

Number of Samples:

Confidence Level %:

Seed:

Capital Charge:

Correlation only applicable when viewing Capital Charge

	1 Internal Fraud	2 External fraud	3 Employment Practices and Workplace	4 Clients, Products and Business	5 Damage to physical assets	6 Business Disruption and System Failures	7 Execution, Delivery and Process	TOTALS with full correlation (Simple Sum)	TOTALS with no correlation (SRSS)	TOTALS with assigned correlation
1 Retail Banking	26,163,268	351,457	194,930	241,346,640	31,605,786	2,223,075	27,667,672	329,552,828	246,378,259	290,953,024
2 Trading & Sales	32,207,998	4,235,132	23,241,050	65,758,516	221,298	1,386,816	14,604,644	141,655,454	78,325,527	114,457,760
3 Payment & Settlement	304,205,920	5,113,884	937,779	24,510,962	202,669	3,551,368	18,478,862	357,001,444	305,815,601	332,395,264
TOTALS with full correlation	362,577,186	9,700,473	24,373,759	331,616,118	32,029,753	7,161,259	60,751,178	828,209,726	630,519,387	737,806,048
TOTALS with no correlation	307,022,985	6,649,186	23,260,779	251,342,735	31,607,211	4,413,336	36,335,438	660,631,669	0	0
TOTALS with assigned	335,950,400	8,315,974	23,823,770	294,229,856	31,819,184	5,948,158	50,054,820	750,142,162	0	0

OK

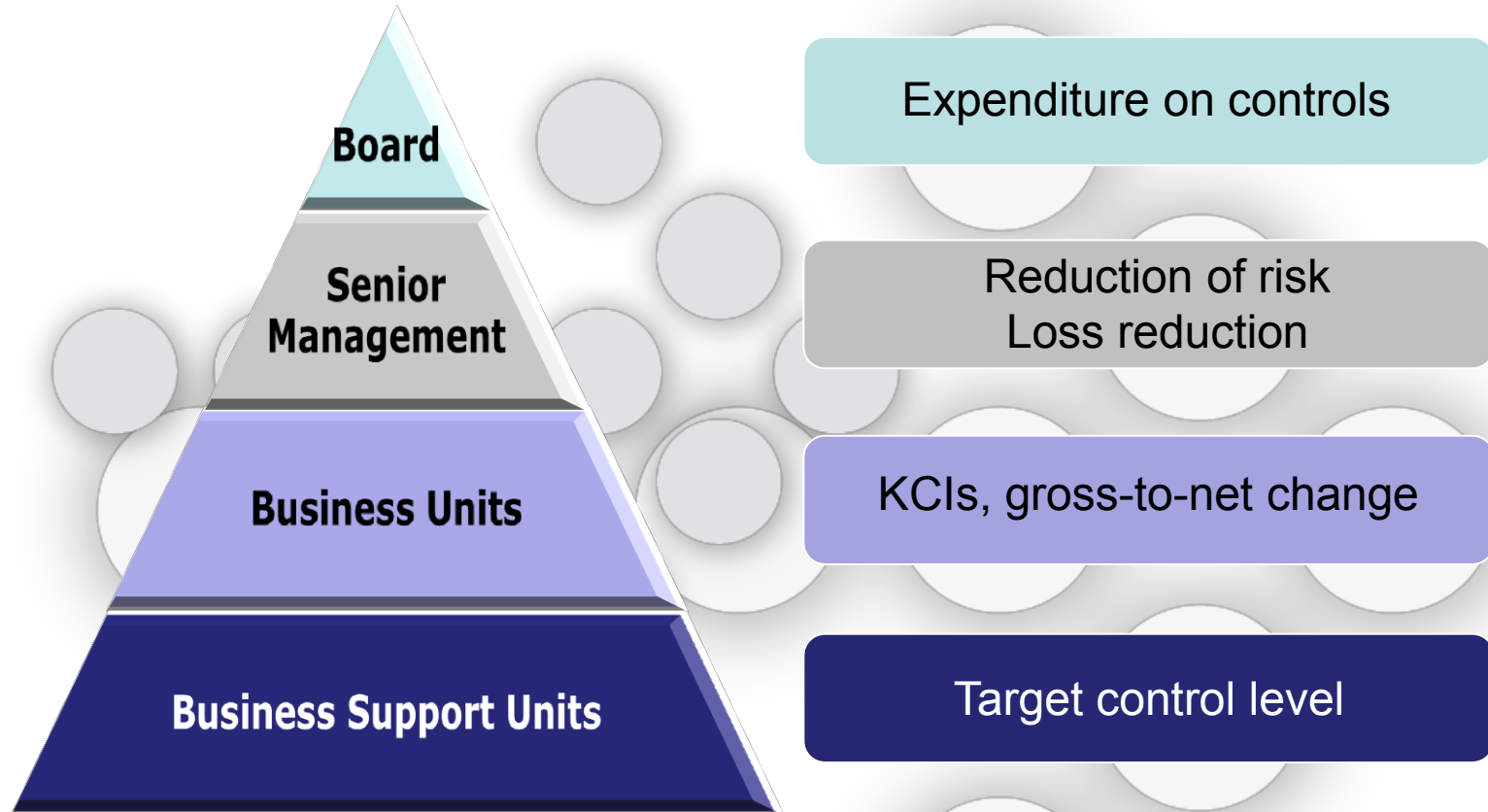
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## Summary

- ▶ How appetite is described will depend upon the size, complexity and culture of the firm
- ▶ There are various ways to describe risk appetite – applying a consistent methodology is important
- ▶ You may find that you are over controlled (against your appetite)
- ▶ Stating risk appetite and benchmarking the business against this level enables the management team to have a clear picture of the real risk profile and to take appropriate mitigating actions

# What is OR Control Appetite?



**The amount a firm is willing to spend to mitigate a risk  
(in money, time and/or resources)**

## Control appetite

- ▶ Internal to the firm (cf Risk Appetite: driven by external as well as internal factors)
- ▶ Recognises that certain risks cannot be mitigated (or mitigated further)
- ▶ Recognises that management has a finite willingness to mitigate risks
- ▶ Allows management to focus on controls that can be improved within a given cost/benefit ratio
- ▶ Links to Internal Audit and Six Sigma/Lean work

# Control appetite: causes and effects

- ▶ Control appetite splits into two main parts:
  - causes appetite which concerns preventative control appetite, and
  - effects appetite which concerns corrective control appetite



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