

### Society of Actuaries in Ireland

### Risk Management Perspectives Conference

25<sup>th</sup> October 2017



### Society of Actuaries in Ireland

### ERM Research Database Risk Survey

25.10.2017



- Over 800 papers on Enterprise Risk Management
  - Users can suggest papers to be added to the database
- The database has been split into several categories
  - General Categories (i.e. common ERM topics)
  - Specific Risk Categories (e.g. credit risk, operational risk)
- The database can be filtered by several headings including;
  - Author
  - Publication Date
  - Publication Type (i.e. Papers or articles)
  - Academic/Commercial Papers



2014

Capital management in a

Solvency II world

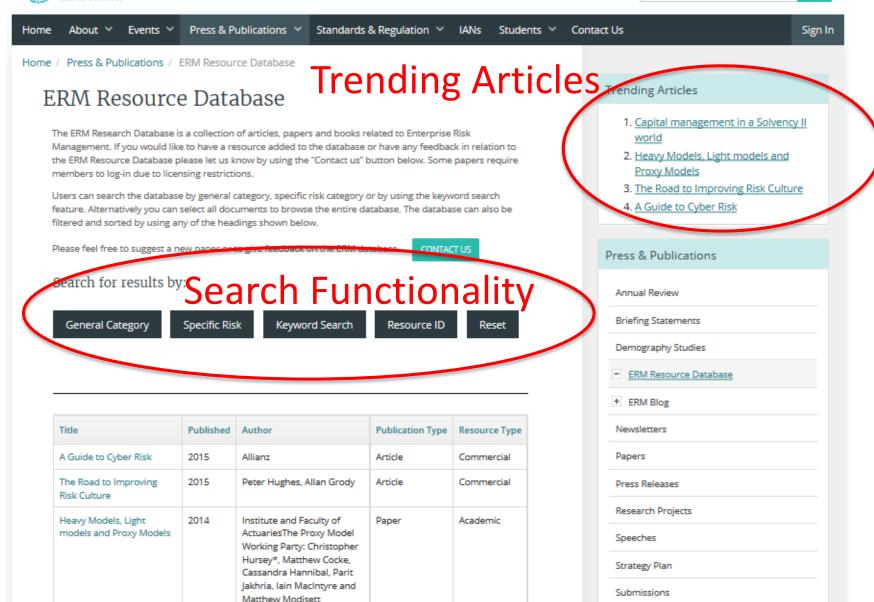
Milliman: Sinead Clarke.

Scott Mitchell, Eamonn

Dholon

Paper

Commercial



User login



### Behavioural Economics and Its Implications for Enterprise Risk Management

Submitted by TheSecretariat on 20 May, 2015 - 13:34

Tagged: Agency Risk Behavioural economics Behavioural Risk Risk Management Tools and Techniques

The underlying premise of this paper is that enterprise risk management (ERM), as it continues to evolve as both a process and a collection of risk management techniques, can benefit from several different (but ultimately somewhat related) "megatrends." The core of this paper concentrates on the impact on ERM of one of those megatrends: the emergence of a behavioural economics perspective, which is beginning to have a large impact on our understanding of the economy and on certain economic and business processes.

The evolution and context of behavioural economics are described, and potential implications for the practice of ERM are discussed. The paper culminates with a variety of specific suggestions for ERM practice in response to findings from behavioural economics research, specifically a number of human cognitive dissonances which are inconsistent with traditional economic theory.

Source: Society of Actuaries (US)

Length of Resource: 18 pages

Resource File:

Click here to download Resource

Author: Rick Gorvett, FCAS, ASA, CERA, MAAA, ARM, FRM, PhD

Date Published: 1 Jan 2012

Publication Type: Paper

Resource Type: Academic

### Introduction or Summary

Further Information



- Key strategic priority of the ERM Committee is to facilitate and promote learning and development for actuaries in the area of ERM
- Survey conducted during March 2017
- Facilitated gaining an understanding of the needs of members and to tailor future learning and development to meet those needs
- Overview
  - 19 questions, 73 responses, approx. 33% response rate.
- Output is being used to drive the ERM committee learning agenda in the following areas:
  - forms of learning and development, e.g. evening meetings,
  - Hot topics; and
  - Insight relating to the ERM resource database.

### Disclaimer

# The views expressed in these presentations are those of the presenter(s) and not necessarily of the Society of Actuaries in Ireland



### Society of Actuaries in Ireland

# Brexit – Views from the former Chair of the Seanad Brexit Committee

Senator Neale Richmond



Eurosystem



### **Operational Risk Assessments Perspectives from the Central Bank of Ireland ('CBI')**

Lisa O'Mahony, Head of Function, On-site Inspections

Insurance Supervision Division

25 October 2017

Central Bank of Ireland - UNRESTRICTED



Eurosystem

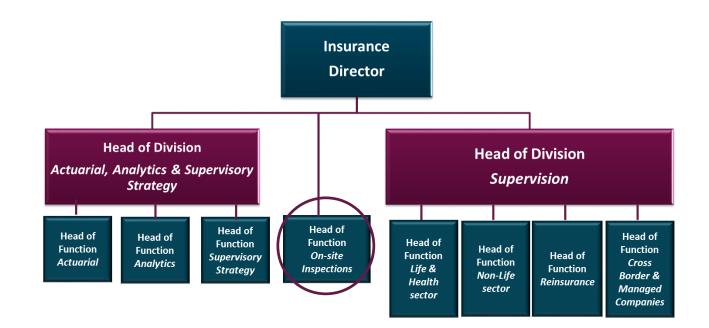
#### Introduction



Lisa O' Mahony, Bsc, MACC, ACA, CTC

Head of Function - On-site Inspections, Insurance Supervision Directorate,

The Central Bank of Ireland.





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#### Agenda

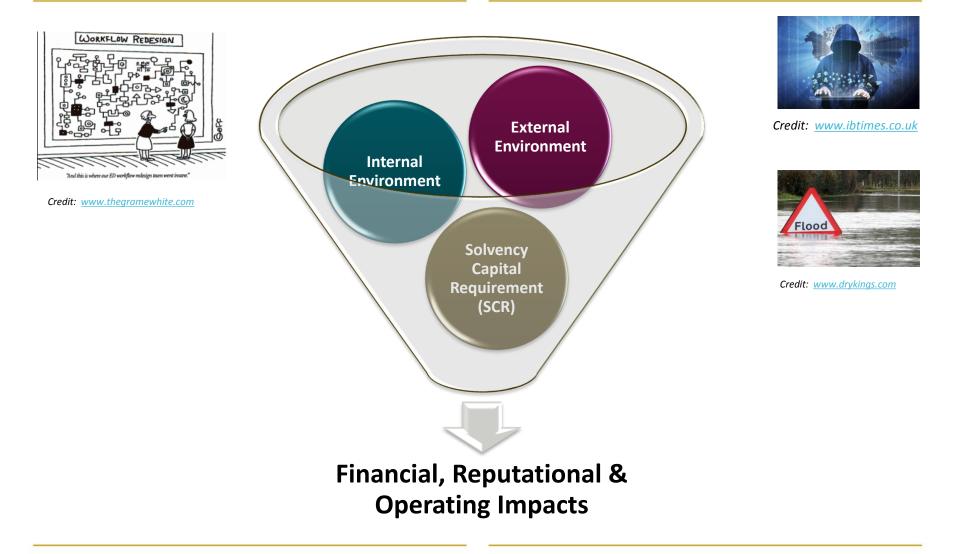


Central Bank of Ireland - UNRESTRICTED



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#### Why Operational Risk?





#### **Operational Risk and the SCR**

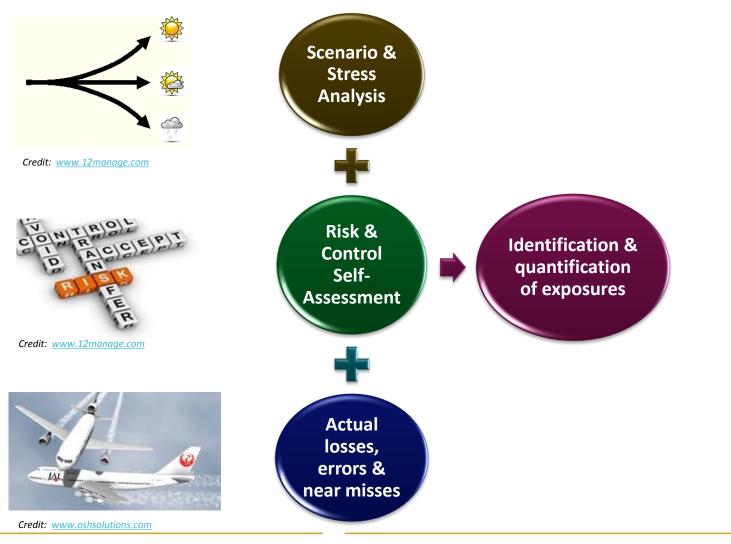


- This chart shows all companies, supervised by the Central Bank of Ireland across all sectors and all impact categories.
- The majority of companies have stated operational risk as being between 0% and c.7% of the SCR.
- Only a handful of companies have stated operational risk as being 20%+ of the SCR.
- Across all companies, the average is 6.7% of the SCR.



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#### **Risk Identification**

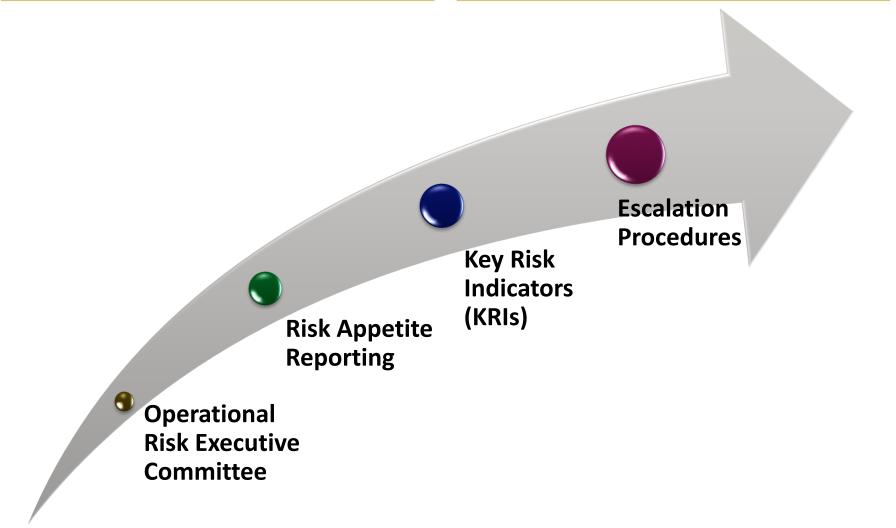


Central Bank of Ireland - UNRESTRICATED



Eurosystem

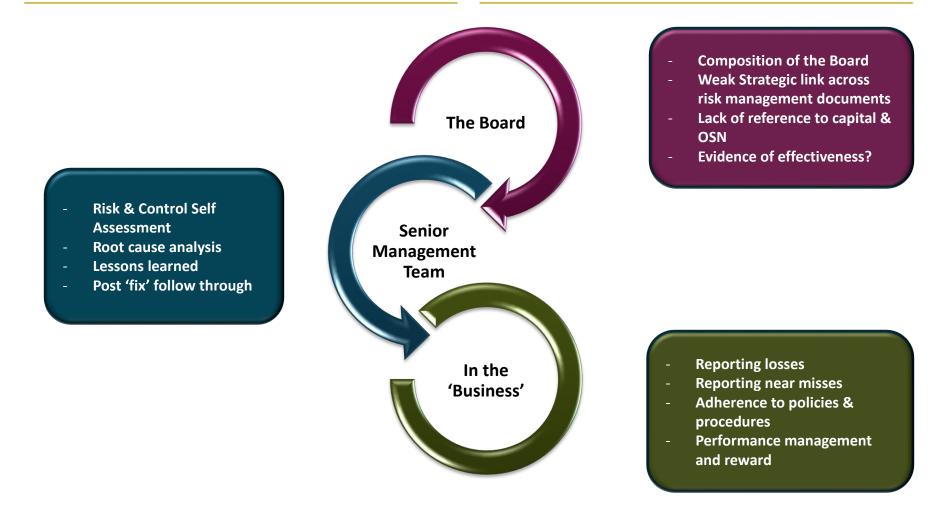
#### **Risk Monitoring and Reporting**





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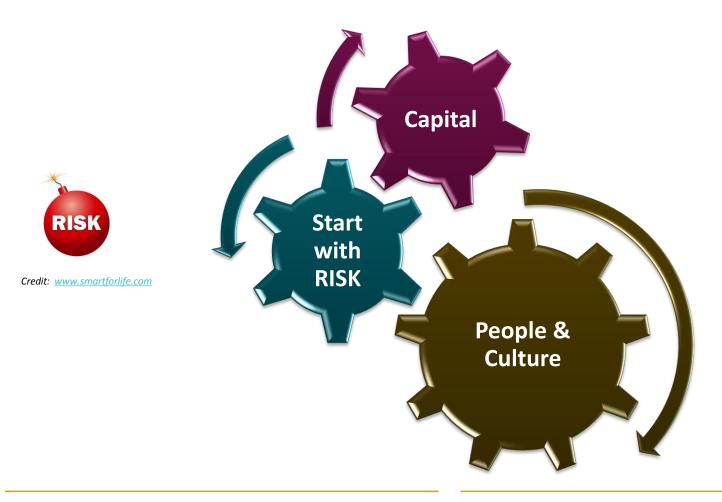
#### **Risk Culture**





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#### Conclusion







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#### Contact information: email: <u>lisa.omahony@centralbank.ie</u> Tel: 01 224 4839

I am grateful to Lenka Marsikova, Susan Forristal and Fiona Brosnan for their contributions to this speech.

**Thank You** 

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### Society of Actuaries in Ireland

# Cyber risk audits – Common themes arising and update on points of focus

**Michael Daughton** 



### Definition

"Cyber risk is loss or damage arising out of unauthorised access to, use of, disclosure of, disruption of, modification or destruction to information and information systems".



### **Starting point**

of CEOs are concerned about the loyalty of their customers

72% of CEOs are struggling to keep up with new technologies

of CEOs are concerned about the relevance of their products and services

29% of CEOs list cyber as the issue that has the biggest impact on their company today

66%

20%

of CEOs indicated that information security/cyber is the risk they are most concerned about

# Are you able to sleep at night

- KPMG International surveyed over 1,200 chief executives from many of the world's largest and most complex companies and discovered what keeps them awake at night.
- C-suite and board members traditionally have viewed cyber security as a tactical problem, not a strategic issue. Over the past decade, there is realization that cyber security can pose an enterprise-wide risk.



### **Cyber Security: A Boardroom Priority**

"The complex interconnectedness of financial institutions and markets means that the financial system is only as strong as the weakest link in the chain. This is why the presence of cyber security risks in one firm could potentially give rise to systemic failure. So far we have not had a cyber-event that led to systemic problems but it may be only a matter of time. A seemingly manageable security incident at a single firm could cascade quickly to the broader financial sector."

> Address by Deputy Governor, Cyril Roux, Society of Actuaries in Ireland Risk Management Conference, "Cybersecurity and Cyber Risk", 30 September 2015



### From the frontline

#### Organisation's are facing a perfect storm of:

- Technology developing in leaps and bounds
- Increased erosion of perimeter from third parties, social media and personal devices
- Increasing number of vulnerabilities
- Rapidly evolving threat landscape with incidents on the rise and with increasing business impact
- Attacks increasingly targeted
- Attackers increasingly using multiple attack routes
- Those who have been breached often may not be aware of compromise
- Companies fighting a moving and evolving target
- Traditional means of crime and extortion being "digitised"
- Risk outpacing organisation's ability to keep up



### Key security trends

#### Threats

- Organized crime
- Nation states
- Cyber espionage
- Hactivism
- Insider threats

# 3 Rapid technology change

- Critical national infrastructure
- Smart / metering
- Digital transformation
- Internet of things
- Industry 4.0

## 5 Changing market and client need

- Strategic shift
- Situational awareness
- Intelligence sharing
- Cyber response

2 Change in the way business is conducted

.

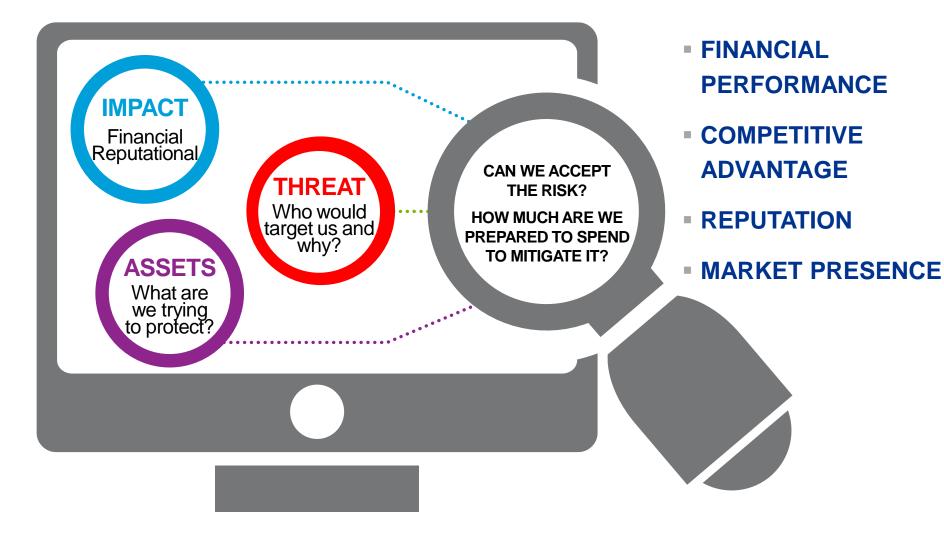
- Cloud computing
- Big data
- Social media (Twitter,...)
- Consumerization
- Bring your own device (BYOD)
- Mobile banking

## 4 Regulatory compliance

- Data loss
- Privacy
- Records management



### Cyber imapcts – What is at stake?





### Cyber Security – 2017 KPMG Global Audit Committee Institute Survey

35% of Irish members are satisfied with their level of focus on managing cyber security risk

At a global level 25% of members are satisfied despite the issue being identified as a key challenge by committee members.

In general, audit committees identify cyber security risk among their top challenges

Almost one third of the 800 audit committee members surveyed said that additional expertise related to technology and cyber security would be helpful

Audit Committees looking to the Internal Audit function to focus on critical risks to the business, including cyber security risk



### The five most common Cyber Security mistakes

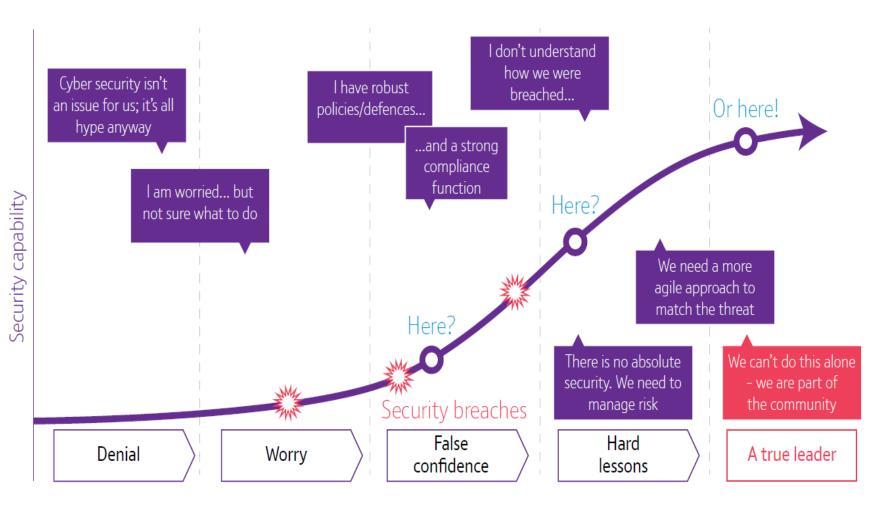
To many, cyber security is a bit of a mystery. This lack of understanding has created many misconceptions among management about how to approach cyber security.

The following five cyber security mistakes are repeated over and over-often with drastic results.

	Cyber security mistakes	Reality
1	We have to achieve 100 percent security.	The goal of 100 percent security is neither feasible nor appropriate.
2	When we invest in best-of-class technical tools, we are safe.	Effective cyber security is less dependent on technology than you think.
3	Our weapons have to be better than those of the hackers.	The security policy should primarily be determined by your goals, not those of your attackers.
4	Cyber security compliance is all about effective monitoring.	The ability to learn is just as important as the ability to monitor.
5	We need to recruit the most suitable professionals to defend ourselves from cyber crime.	Cyber security is not a department, but an attitude.



### Cyber Resilience: A journey not a project



Securing the Digital Enterprise – KPMG / BT 2016



### The four golden rules of Cyber Security

#### Get the basics right.

Over 75 percent of attacks exploit failures to put in place basic controls.

#### Look after your crown jewels.

You have to prioritize where you spend your money to defend yourself, so build a fortress around your most critical assets.

#### Do your homework on your enemies.

Invest in understanding who might attack you, why and how so that you can anticipate the most likely scenarios and you defend those assets that are most likely to get attacked.

#### Treat cyber risk as an opportunity to look closely at your business.

Security and resilience can affect nearly every part of an organization. Strategies to protect IT security and business resilience should align with an organization's broader goals — from protecting intellectual property to maximizing productivity to finding new ways to delight customers.



### **Cyber Resilience: get the basics right**





### The Six dimensions - KPMG Cyber Maturity Framework

Technology alone is not the answer to Cyber risk issues. The answer lies in an integrated approach, focusing on all elements identified below.





### Leadership and Governance

#### How should boards engage?

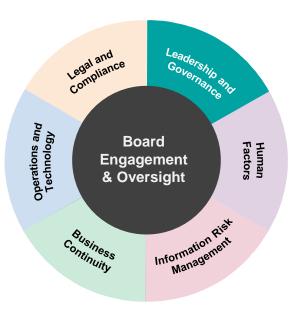
- Understand governance structure and meet executive leadership team
- Review output of capability assessment
- Review and approve strategy and funding requests
- Participate in general board education
- Request periodic updates of program



Direction

#### What should management do?

- Define program ownership and governance structure
- Identify sensitive data assets
- Inventory third-party supplier relationships
- Perform assessment of current capabilities
- Define a strategy and approach
- Educate the board and executive management



### LEADERSHIP AND GOVERNANCE

Management demonstrating due diligence, ownership, and effective management of risk



### **Human Factors**

#### How should boards engage?

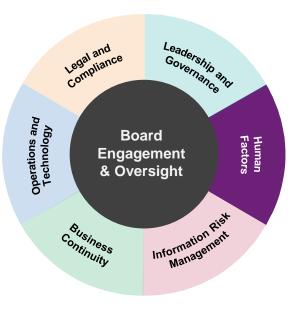
- Set the tone for the culture
- Review patterns/trends of personnel issues
- Understand training & awareness protocols

Direction

Communication

#### What should management do?

- Define culture and expectations
- Implement general training and awareness programs
- Implement personnel security measures
- Define talent management and career architecture
- Develop specific learning paths for key personnel



### HUMAN FACTORS

The level and integration of a security culture that empowers and ensures the right people, skills, culture and knowledge



### **Information Risk Management**

#### How should boards engage?

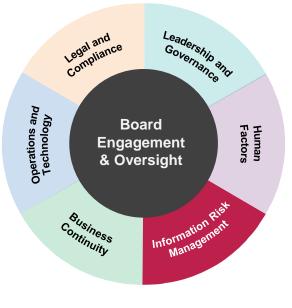
- Understand risk management approach and linkage to enterprise risk
- Review and approve risk tolerance
- Understand third-party supplier program
- Review and question program metrics

Direction

Communication

#### What should management do?

- Develop risk management approach and policies
- Identify risk tolerance and communicate
- Link risks to sensitive data assets
- Perform risk assessment and measures
- Perform third-party supplier accreditation
- Report relevant metrics



### CYBER RISK MANAGEMENT

The approach to achieve comprehensive and effective risk management of information throughout the organization and its delivery and supply partners



### **Incident, Crisis and Business Continuity** Management

#### How should boards engage?

- Understand current response capability
- Review status of overall plan maturity
- Meet with communications personnel
- Participate in table-top exercises

Communication

Direction

#### What should management do?

- Assess current ability to manage cyber events
- Perform analysis of risks and financial requirements
- Develop robust plans
- Assign resources and develop training
- Integrate with corporate communications
- Perform testing of plans

### **INCIDENT, CRISIS AND BUSINESS CONTINUITY** MANAGEMENT

Leadership and Governance

Information Rist

Management

Human Factors

Board

Engagement

& Oversight

Legal and Compliance

Business Continuity

Operations and Technology

Preparations for a security event and ability to prevent or minimize the impact through successful crisis and stakeholder management



### **Operations and Technology**

Direction

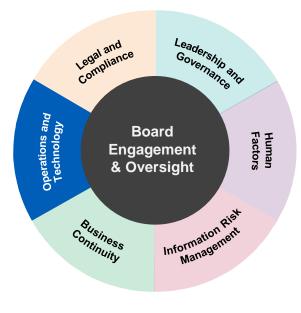
#### How should boards engage?

- Understand current maturity of control structure
- Review relevancy of selected control framework
- Review relevant incident trend metrics
- Meet with CISO or equivalent to understand integration of cyber and information technology trends

Communication

#### What should management do?

- Select and implement a control framework
- Implement logical and physical security controls
- Perform threat and vulnerability management
- Perform security monitoring
- Implement incident response capabilities
- Integrate activities with broader IT service management



### OPERATIONS AND TECHNOLOGY

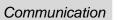
The level of control measures implemented to address identified risks and minimize the impact of compromise



#### **Legal and Compliance**

#### How should boards engage?

- Understand regulatory landscape impacting the organization
- Clarify audit committee requirements for cyber
- Review litigating inventory trends
- Review and approve cyber insurance funding (if relevant)



Direction

#### What should management do?

- Catalog all relevant compliance requirements
- Link compliance requirements to control framework
- Formalize the role of the audit committee
- Develop litigation inventory and trending
- Analyze and recommend need for cyber insurance



#### LEGAL AND COMPLIANCE

The level and integration of a security culture that empowers and ensures the right people, skills, culture and knowledge



- Cross Industry Guidance in respect of Information Technology and Cybersecurity Risks
  - Issued by the Central Bank in September 2016
  - 13 expectations for Cybersecurity risk management
- CBI expects Boards and Senior Management of regulated firms to fully recognise their responsibilities in relation to IT and cybersecurity governance and risk management and place these among their top priorities
- While advancements in technology have introduced a number of customer and firm benefits, they also bring significant risks, as firms become increasingly interconnected and more reliant on complex IT systems and outsourcing service providers to conduct their business and deliver services to customers
- Clear communication that the failure of a firm's IT systems can have significant adverse financial, legal, customer and reputational consequences that should not be underestimated
- SSM on-site methodology on Cybersecurity
  - Aligned to NIST Framework for Cybersecurity
  - Identify / Protect / Detect / Respond / Recover



#### **Cyber Security – An Internal Audit perspective**

All Boards, should with the help of Internal Audit, have a view of the organisation's response to the rising cyber threat and the quality of its cyber governance and risk management.

#### Some initial key questions and considerations:

- Has the organisation recognised the potential threat to business resilience, reputation and even revenues that cyber risk poses?
- Are key controls in place and / or has a recognised framework been implemented?
- Does the organisation understand which of its data assets are most valuable and have they been mapped?
- Does the organisation have effective and updated firewalls and malware protection in place?
- Are existing protections being effectively tested?
- Is the governance around access rights sufficiently robust?
- Is the organisation staying abreast of developing threats and emerging cyber attacks?
- Have cyber risk training and awareness sessions been held across the organisation and are policies reflected in employee behaviour?
- Is the organisation prepared to respond to and recover in the likely event of an attack?



#### Some Food for Thought

- World economic forum quotes global cost of cybercrime as high as \$3 trillion dollars more profitable than the drug trade.
- Average number of days from breach to discovery is 289 days
- 70% of breaches are reported externally rather than internally. Some organisations are not likely to get external reports.

"I am convinced that there are only two types of companies: those that have been hacked and those that will be. And even they are converging into one category: companies that have been hacked and will be hacked again".

Robert S. Mueller III, Director Federal Bureau of Investigation



#### How to Protect Your Organisation – illustrative for example

- Board level awareness needs to be raised
- Move from compliance based to risk based security strategies
- Identify and rank your assets
- Compare cyber-maturity to your peers are you the easy target?
- End to End encryption data at rest, transit, key storage & loss
- Base-lining & outlier tracking
- Privileged user monitoring & SOD
- Strict password & authentication policies introduce 2 Factor Authentication

- Security Operation Centres for monitoring
- Use of external reputation monitoring
- Staff focus on-boarding, training, atypical usage
- Network segmentation and perimeter monitoring file transfers
- Third party vetting and interfaces
- Acquisition cyber risk assessments
- Tighter mobile device & BYOD policies
- Cyber insurance



#### Some Questions for Board and Management (and Internal Audit)

1	Who is accountable for security within your organisation? How clear is your governance over cyber security and incidents?
2	Are you having conversations around cyber risks internally? What are your key risks?
3	What is your cyber security strategy – People/Process/Technology and Protect/Detect/Respond?
4	Do you know what the latest fines are for data breaches?
5	Do you know where your critical data ("crown jewels") is stored and who has access to it?
6	Do you think you are aware of all of your obligations for information assurance?
7	Have you rehearsed a cyber event scenario as part of crisis management?
8	How do you keep ahead of cyber attackers? How many information risks have been escalated?
9	How are you managing the risk that new technologies like cloud, social media, and Big Data bring to ensure that you get the benefits?
10	Have you completed an assessment of your Cyber security controls?
11	How do you manage the risks in relation to third parties?



#### **EU GDPR at a Glance**

The General Data Protection Regulation or GDPR was adopted on 27 April 2016. It will apply starting on 25 May 2018, after a two-year transition period. It is immediately enforceable as law in all member states of the European Union. The primary objectives of the GDPR are to institute citizens' rights in controlling their personal data and to simplify the regulatory business environment by a unified regulation within the EU.

#### Legal changes

- Expansive jurisdiction
- One European legislation
- Processors can be held accountable

#### Authority oversight

- European Data Protection Board
- One lead supervisory authority
- Obliged data breach notification
- High fines in case of violations
- Certification schemes (seals)



#### **Citizens right**

- Stricter conditions for consent
- Right to rectification
- Right to erasure, right to be forgotten
- Right to restriction of processing
- Right to data portability
- Right to object and automated individual decision-making

#### **Organisational measures**

- Data Protection officer (DPO)
- Accountability
- Data Protection impact assessment (DPIA)
- Inventory of all personal data
- Data protection by design and by default



# Questions and Answers

Society of Actuaries in Ireland Risk Management Perspectives Conference Geopolitical Risk and Macroeconomic Update Jim Power October 25<sup>th</sup> 2017

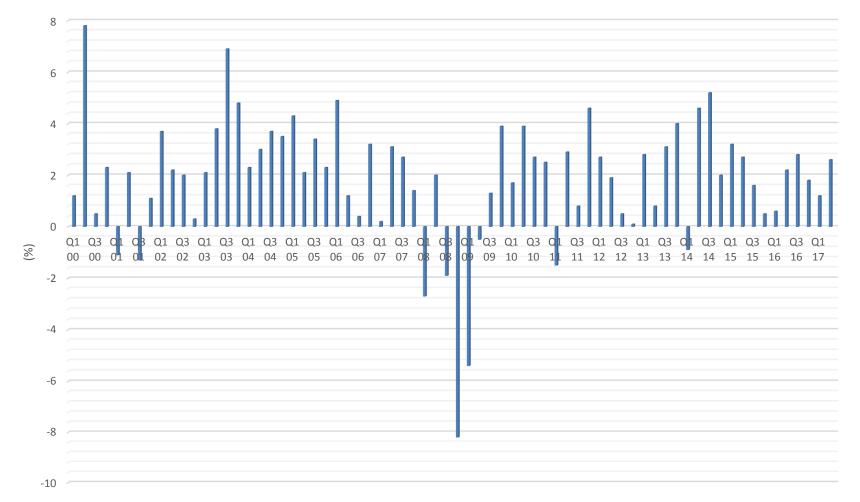
# To Be Discussed

- Global Economic Backdrop
- Global Economic Risks
- Global Geopolitical Risks
- Update on Irish Economy

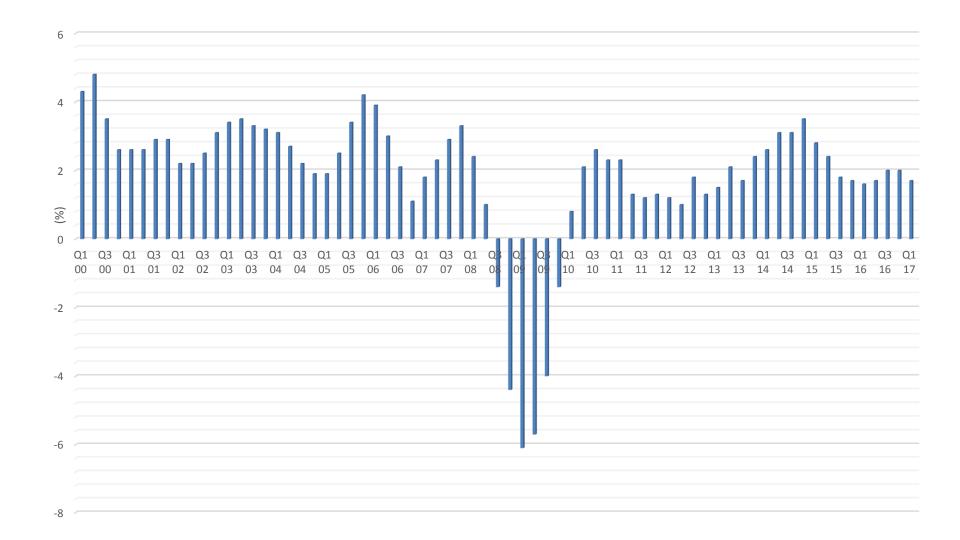
#### **GLOBAL ECONOMIC BACKDROP**

- 2017 a better year for global economy
- US growth reasonable; inflation moderate
- UK held up well post-Brexit > sterling weakness helped exports, but consumer & business investment coming under some strain
- Euro Zone growth recovery becoming more broadbased
- Chinese growth has stabilised
- Global growth story reasonably compelling

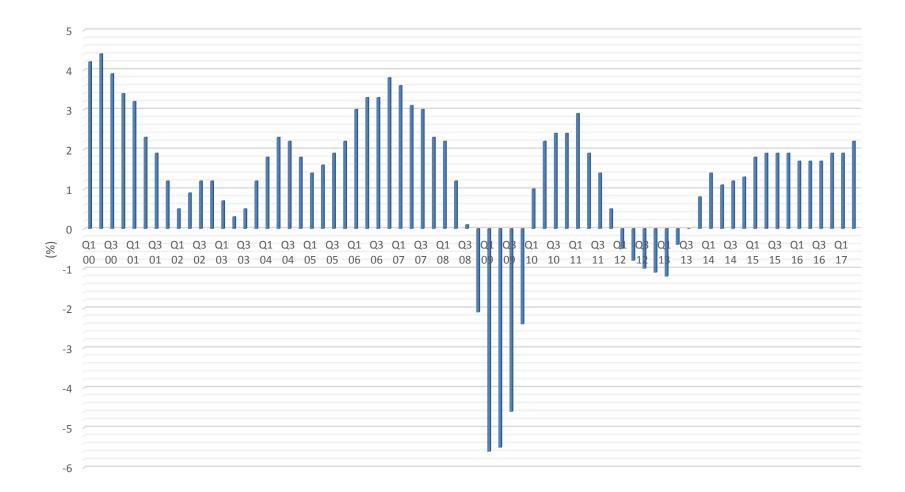
# US GDP (YoY)



# UK GDP (YoY)



## Euro Zone GDP (YoY)



# Strange Environment

- Inflation muted in most parts of developed world
- US Fed Funds up from 0% to 1.25% since Dec 15
- ECB Rates Refinancing Rate 0%, Bank Deposit Rate -0.4% > no pressure for the moment
- UK Base Rate 0.25% > some pressure
- Bond Yields close to historically low levels
- Equity markets have come a long way since Q1 2009

#### **Global Growth Forecast**

(IMF OCT 17)	2016	2017f	2018f
World Output	+3.2%	+3.6%	+3.7%
Advanced	+1.7%	+2.2%	+2.0%
US	+1.5%	+2.2%	+2.3%
Euro Zone	+1.8%	+2.1%	+1.9%
-Germany	+1.9%	+2.0%	+1.8%
-France	+1.2%	+1.6%	+1.8%
UK	+1.8%	+1.7%	+1.5%
Japan	+1.0%	+1.5%	+0.7%
Emerging	+4.3%	+4.6%	+4.9%
China	+6.7%	+6.8%	+6.5%
India	+7.1%	+6.7%	+7.4%

# **Global Economic Risks**

- Brexit
- Trump & Protectionism
- Reversal of QE
- Official interest rate cycle
- China & its imbalances
- Rollback of financial regulation
- Equity markets have come a long way
- Extreme weather related events

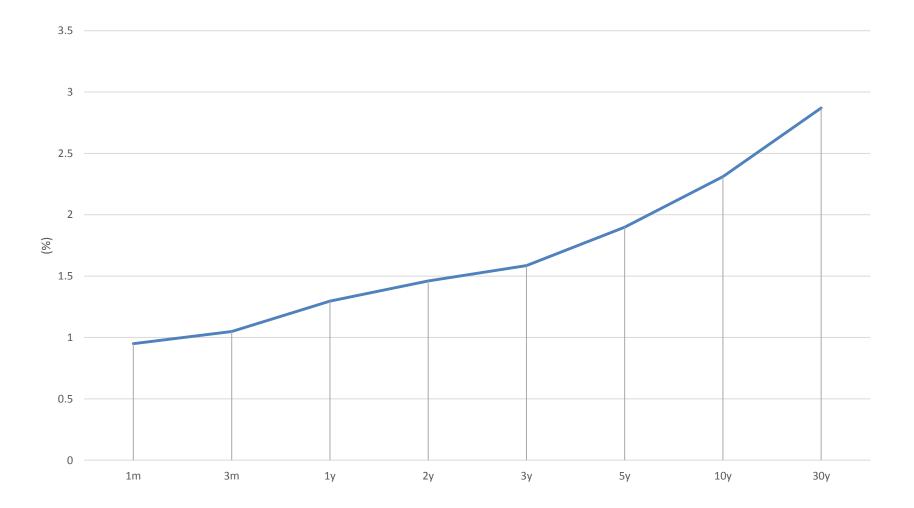
# **Global Geopolitical Risks**

- Rejection of Conventional Politics in 2016
- Politics Netherlands & France OK; Germany Sept 24<sup>th</sup> OK; Italy May 2018 – cause for concern
- Migration causing dangerous tensions in EU particularly
- Growing nationalism Catalonia, Hungary, Poland, Austria
- Global Terrorism > North Korea, ISIS
- Trump
- Brexit
- Corporate Culture/Taxation etc

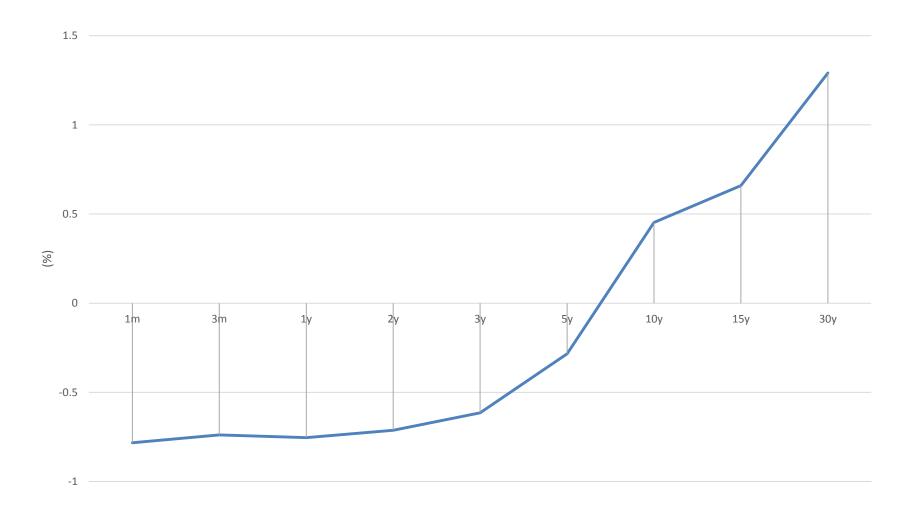
# **10-Year Bond Yields**

	(October 23 <sup>rd</sup> 2017)	
Germany	0.43%	
Ireland	0.64%	
France	0.84%	
Italy	2.01%	
Spain	1.65%	
Greece	5.52%	
Portugal	2.27%	
Japan	0.06%	
US	2.38%	
UK	1.33%	

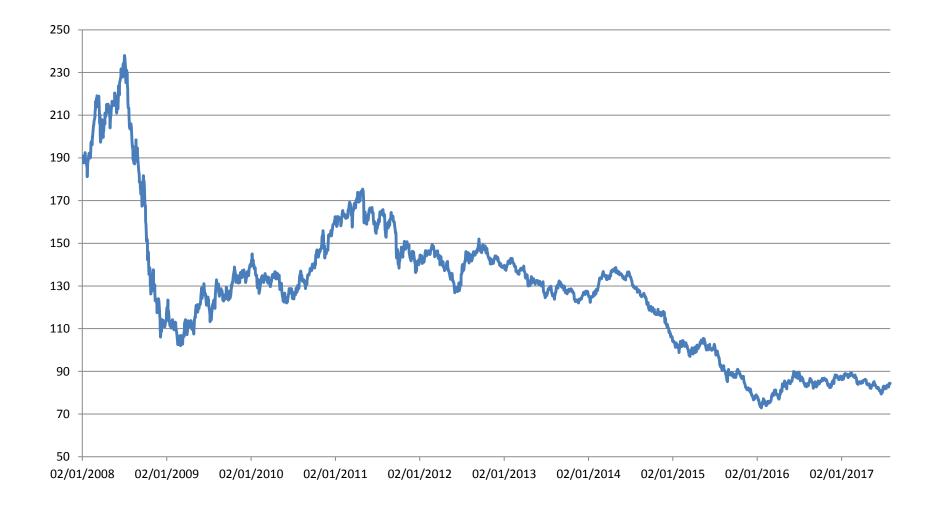
# **US Yield Curve**



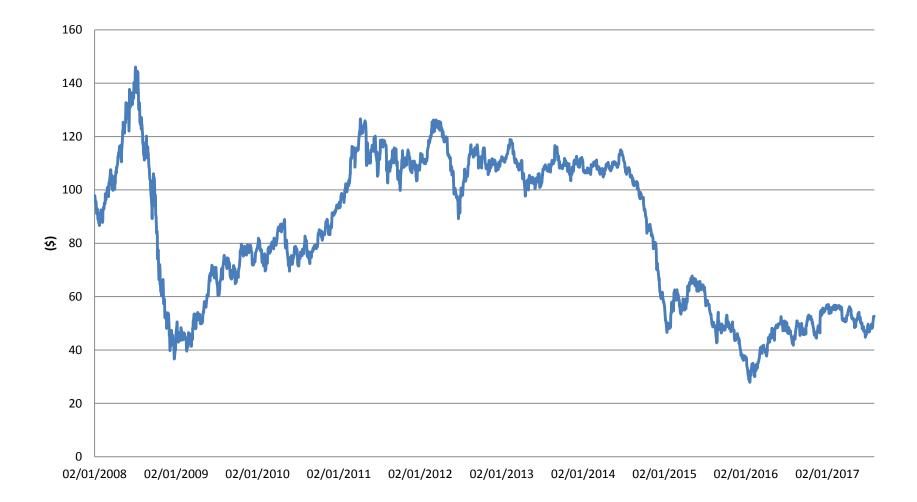
#### German Yield Curve



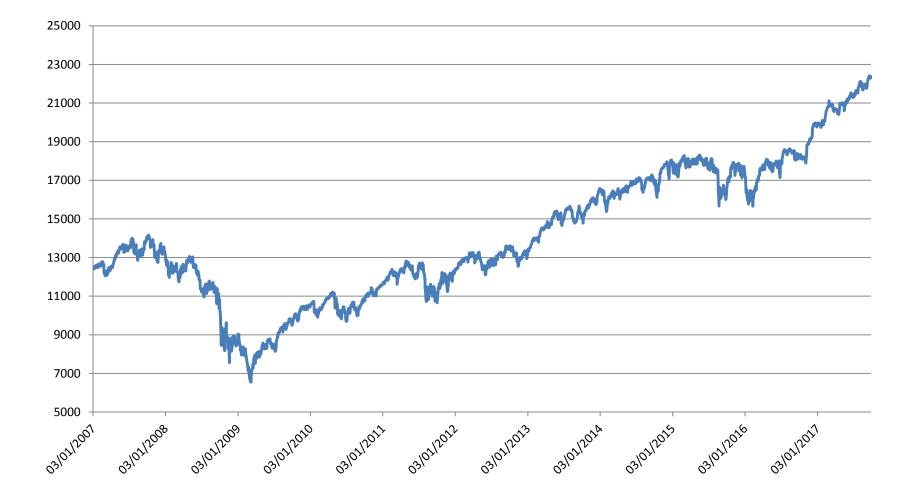
# **Bloomberg Commodity Price Index**



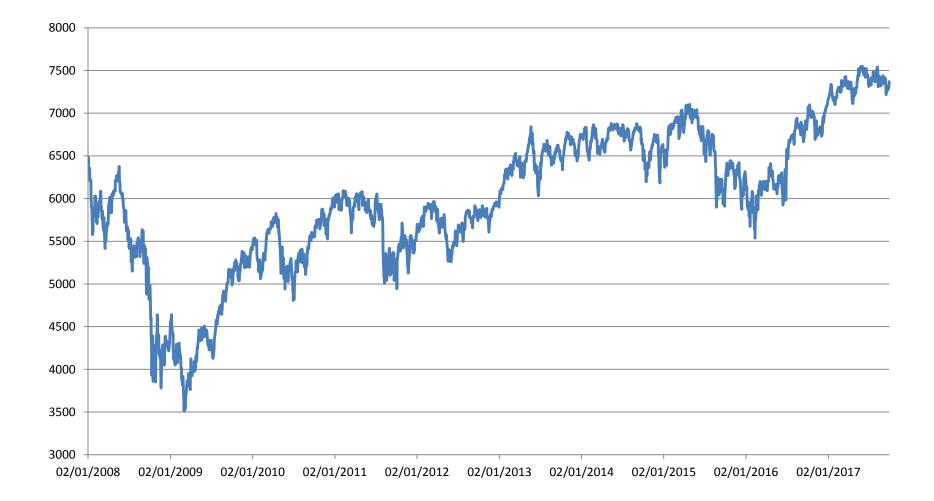
### Brent Crude Oil



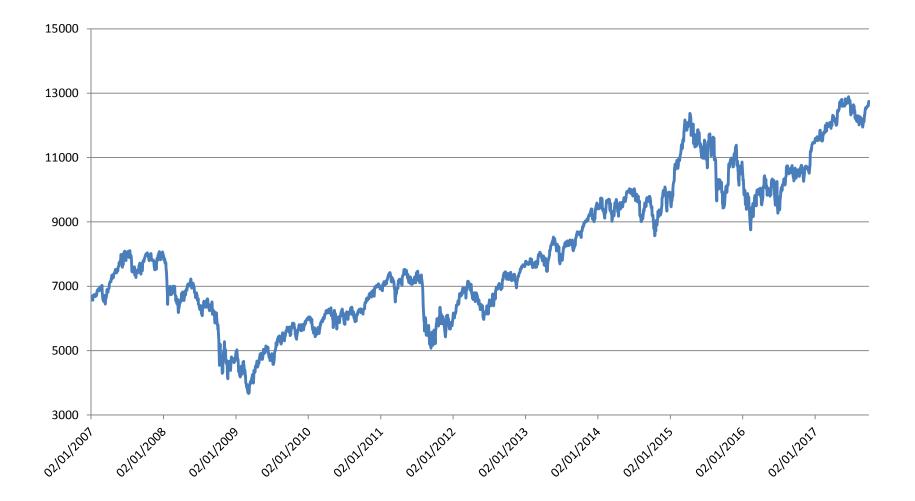
# **US DJIA**



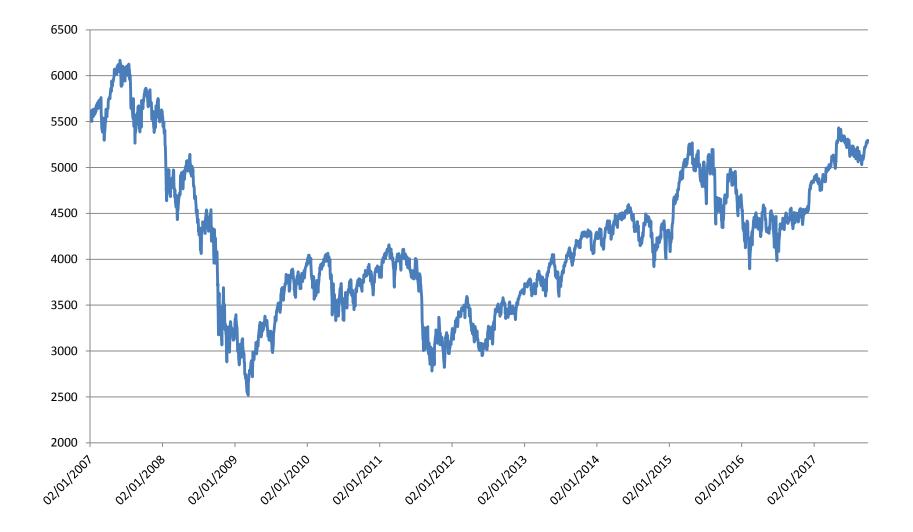
## FTSE 100



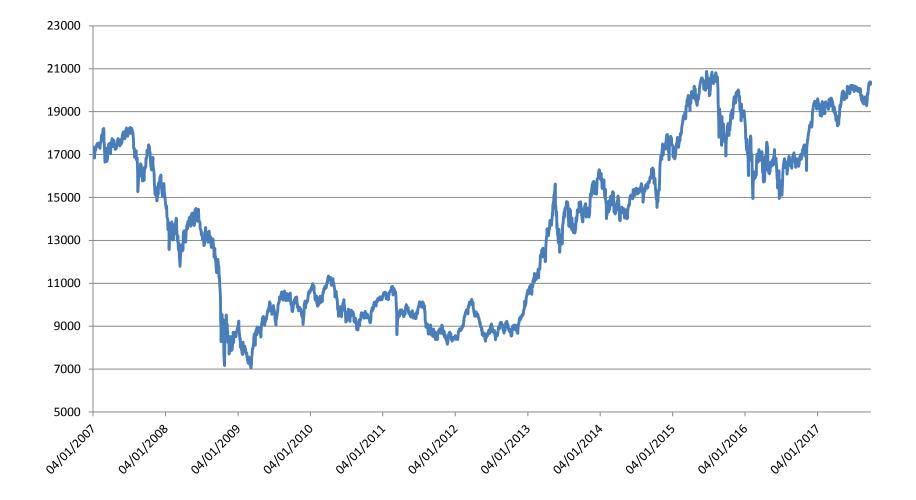
#### German DAX



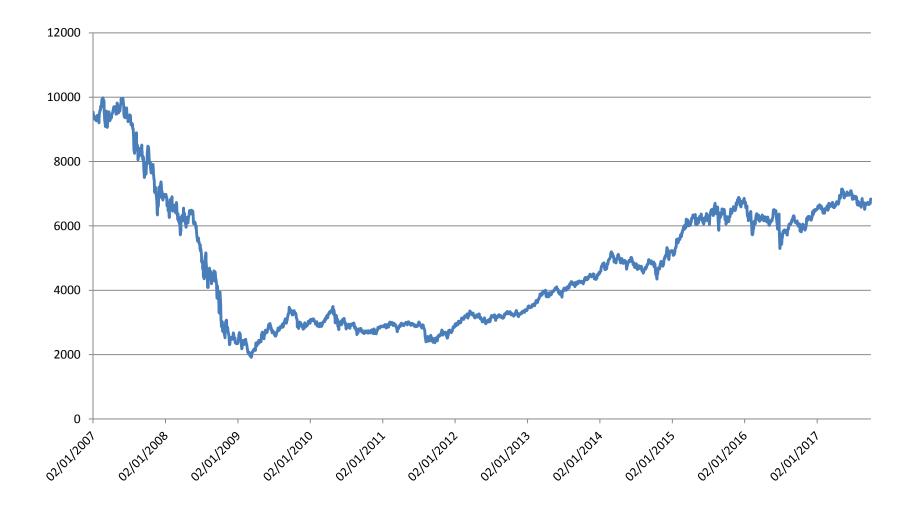
## French CAC



## NIKKEI



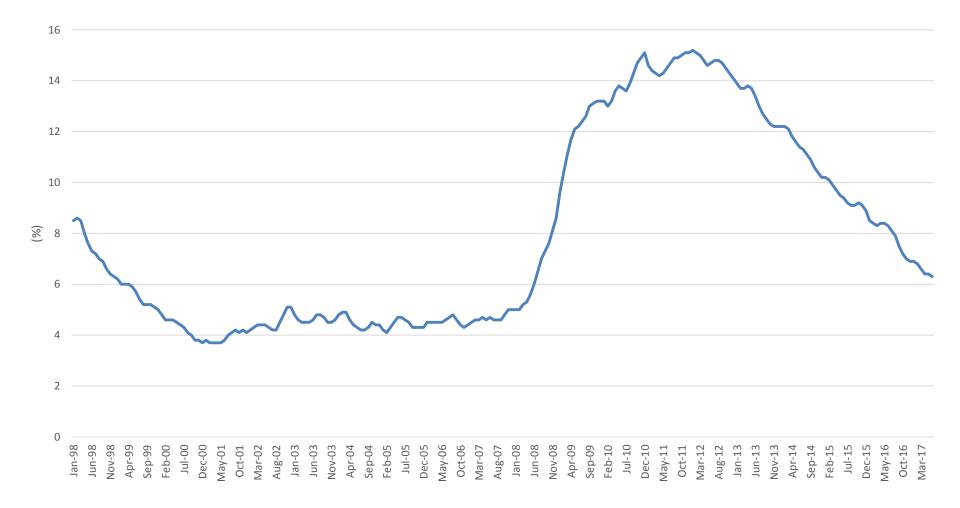
# ISEQ



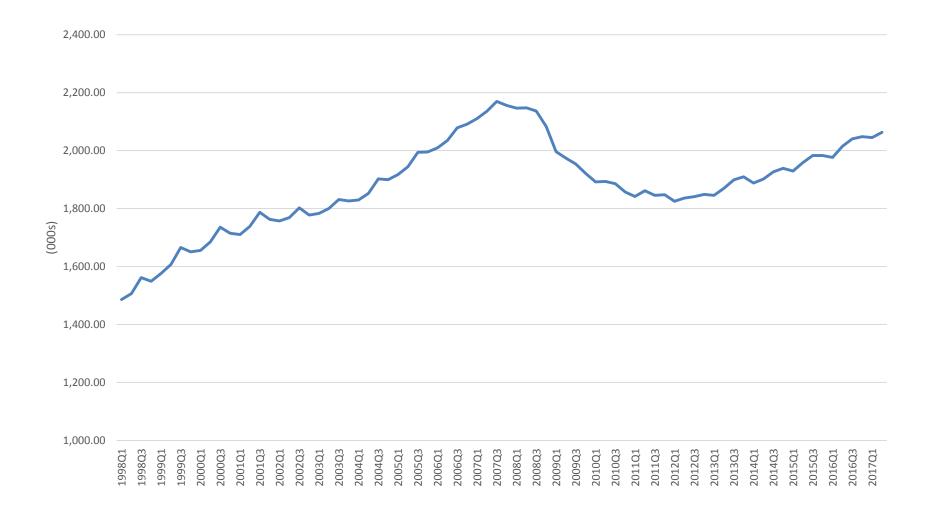
# The Irish Economy Today

- Economy in strong statistical recovery
- Significant domestic challenges
- Housing, Public Services, Pay Pressures & Pensions
- Brexit key challenge on many fronts
- Trump tax policies
- Broader tax agendas more worrying
- Ireland needs to be managed in prudent, sensible manner
- Competitiveness broadly defined key priority

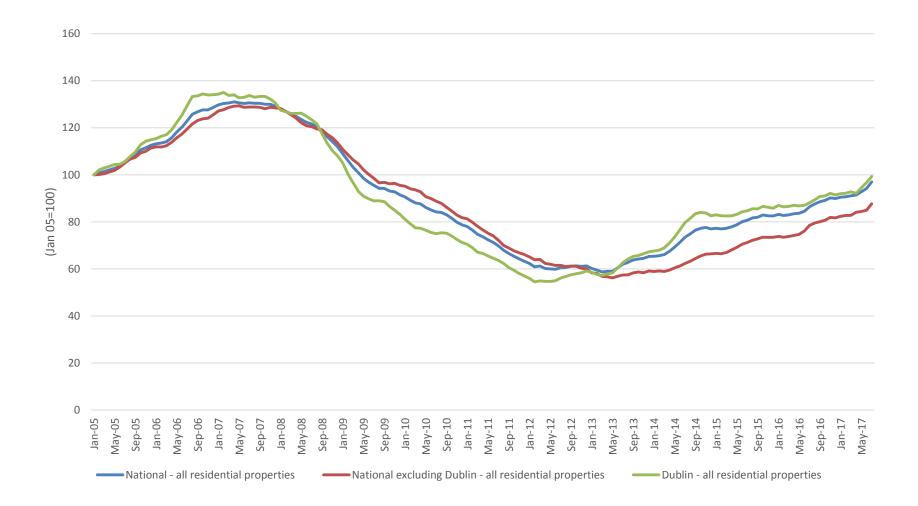
## Unemployment (% Labour Force)



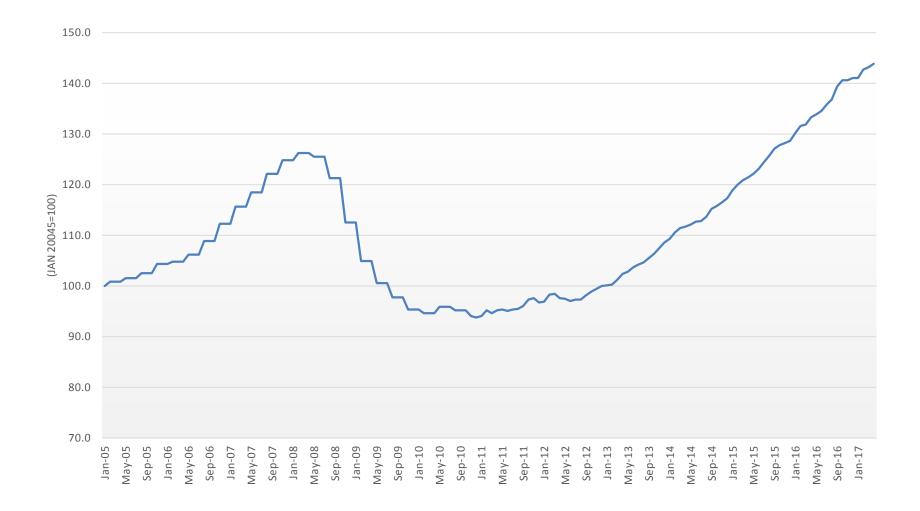
# Employment



#### **Irish House Prices**



#### Irish Private Rents



#### **Assumptions Budget 2018**

	2017f	2018f	2019f	2020f	2017-2020
GDP	4.3%	3.5%	3.2%	2.8%	3.5%
GNP	0.0%	3.3%	3.0%	2.5%	2.2%
Consumption	2.3%	2.3%	2.2%	2.1%	2.2%
Investment	-3.7%	6.1%	5.6%	4.2%	3.1%
Government	2.0%	2.0%	2.0%	1.9%	2.0%
Exports	3.5%	4.8%	4.3%	4.0%	4.2%
Imports	-1.0	5.5%	4.9%	4.4%	3.5%
Employment	2.8%	2.3%	2.1%	1.8%	2.3%
Unemploymen t	6.3%	5.7%	5.5%	5.5%	5.8%

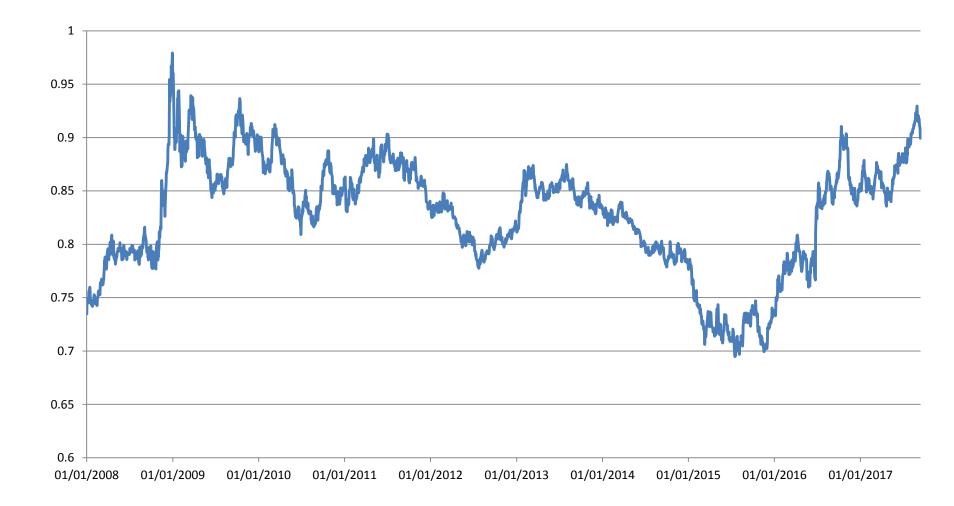
#### Trends in Irish Taxation

	2006	2016	2017f	2018f
Expenditure Taxes	€19.3 bln	€18.4 bln	€19.5 bln	€20.3 bln
% Tax Take	42.4%	38.5%	38.5%	38.2%
Income Tax	€12.4 bln	€19.1 bln	€20.2 bln	€21.44 bln
% Tax Take	27.2%	40.0%	39.9%	40.0%
Corporation Tax	€6.7 bln	€7.4 bln	€7.97bln	€8.50 bln
% Tax Take	14.7%	15.4%	15.7%	15.8%
Capital Taxes	€3.5 bln	€1.2 bln	€1.2 bln	€1.31 bln
% Tax Take	7.6%	2.6%	2.5%	2.4%
Total Tax Take (€bln)	€45.5 bln	€47.9bln	€50.6 bln	€53.66 bln

# BREXIT – 2 ISSUES

- Currency movements Pre-Brexit
- Trading relationship Post-Brexit

# GBP v Euro



# Brexit

- Article 50 invoked by UK March 29<sup>th</sup> 2017
- EU-27 response April 29th many conflicting aspirations
- March 29<sup>th</sup> 2019 the deadline
- UK stance complicated by domestic politics election result has not helped
- Divorce settlement will be difficult
- 4 EU Pillars the big issue
- Terms of divorce will drive trade negotiations
- Hard Brexit the obvious risk
- 44% of UK exports to EU & 19% to US

# **UK Position**

- Brexit talks have stalled
- 'Partnership and Creative Solutions'
- 3 possibilities > Norway (European Economic Area), Canada (Free Trade Deal) & Turkey (Customs Union Arrangements)> UK has effectively ruled out all three
- 2 year transition period
- Sudden EU crash exit or compromise?

# Brexit & Ireland

- Sterling impact to date post-Brexit trading relationship the bigger issue
- Broad & significant sectoral implications
- Trade exposure very strong > 37% Food & Drink exports; 70% Prepared Consumer Food exports go to UK
- Border Issue very problematical
- Opportunities as UK companies move to EU base particularly financial services
- Can Ireland accommodate influx of investment?
- Housing an issue regional opportunities

# **Brexit and Ireland**

- No certainty as to how the process will evolve
- Ireland has the biggest issues of the EU-27
- Every sector will be affected to varying degrees
- Legal, logistical and real economic implications
- WTO trade conditions would have profound implications for trade

# **Overseas Visitors to Ireland**

	2016 H1	2017H1	% CHANGE
Great Britain	1,865	1,745	-6.4%
France	263	276	+4.9%
Germany	296	309	+4.4%
Italy	158	157	-
Other Europe	812	875	+7.8%
North America	758	922	+21.6%
Australia/NZ	82	89	+8.5%
Other	150	192	+28%
Total	4,384	4,565	+4.1%

# ANY QUESTIONS?



## Society of Actuaries in Ireland

# Integrating Risk Appetite into the Business

**Billy Galavan** 

### **Introduction Slide**

Billy Galavan: BAFS (1998), FSAI (2004). CRO, Zurich Life Assurance plc (2012).

Today's objectives:

- Outline the practical difficulties (and benefits) businesses encounter in drafting Risk Appetite Statements and embedding Risk Appetite Frameworks
- Provoke some thoughts about what a Risk Appetite Framework really represents in the business



- Risk appetite describes the risks to which the company is exposed and the amount of exposure it is willing to assume from those sources of risk
- Establishes boundaries for the aggregate level / types of risk a company is willing to take to achieve its objectives
- Risk appetite statements include unacceptable and preferred risks and company-wide risk tolerances
- Qualitative and quantitative dimensions, resulting in multiple ways of expressing risk appetite
- The most common group-level risk appetite statements cover:
  - Capital, earnings, liquidity, and franchise value



- Board Ownership and <u>Risk Strategy</u>
- Coverage of all risks
- Quantitative methodology (VaR, Economic Capital, Stress testing)
- Short, Medium and Long Horizons
- Regular reporting to the Board
- Appropriate breach escalation framework
- Other specific items in Corporate Governance Code:
  - Key functions
  - Remuneration and risk taking
  - Contingency planning



Risk Type	Potential Risk Strategy		
Insurance: Mortality / Morbidity / Longevity	Seek and manage: a risk we actively want to take to deliver return / our strategy		
<ul> <li>Market:</li> <li>Liquidity</li> <li>Matching risk</li> <li>Equity, FX, Fixed Interest (Sovereign / Credit) and Property</li> <li>Business: Expense / Inflation / Persistency</li> </ul>	<ul> <li>Manage: by-product of doing business - set capacity limits</li> <li>Avoid</li> <li>Seek &amp; manage: a risk we actively want to take to deliver return &amp; strategy.</li> <li>Manage: by-product of doing business - set capacity limits</li> </ul>		
<b>Operational</b> (including Business Continuity, IT, Cyber, Info security, Third Party) <b>Reputational</b>	Tolerate and manage: Operational by-product of doing business - set capacity limits Avoid Reputational – No Appetite		
Reinsurance / investment credit	Seek and manage: a risk we want to take to deliver return		



- Concise vs comprehensive, which is more useful
  - Target Audience

## • <u>'Top-down' vs 'Bottom-up'</u>

- How it should be developed?
- Subsidiary vs Group
  - Whose needs are being served?
- Firm Specific
  - 'Off the shelf' or bespoke?



Capital & Liquidity	Earnings Volatility	Risk Behaviours
Maintain capital and liquidity levels to meet claims and regulatory / other requirements with high degree of confidence	profits and cash generation	Protect reputation and brand
Overall Regulatory Solvency Needs	New Business Value targets	Operate in line with applicable laws and regulations
Overall 'Own' Solvency Needs	'No surprises' on earnings from single sources of risk	Operate in line with Ethics Standards, Board approved Policies, Internal Controls Framework
Appropriate liquidity requirements	New Business marginal risk capital consumption	Track Key Risk Indicators



## Bottom-up Approach

			Risk Review and Scoring				
			Risk Cat	egorisation	Inhe		
Risk Name	Risk Description and Trigger	Risk Owner	Risk Category Level 1	Risk Sub-Category Level 2	Impact/Severity	Probability	Overall
Inadequate Staff Resourcing	<ol> <li>Staff Recruitment: Insufficient career planning or opportunities or salaries not being at market levels could lead to a failure to attract &amp; recruit experienced and highly skilled staff.</li> <li>Staff Retention: Insufficient career planning or opportunities or salaries not being at market levels could lead to loss of experienced, highly trained or high talent staff</li> </ol>	Manager X	Operational Risk	People Management	Low €0 - €10m	It will happen sooner or later (28%-63%)	Low-High
Fraud - Internal & External	<ol> <li>The risk of fraudulent Med Fee payments being made as a result of inadequate controls, resulting in a financial loss for the company.</li> <li>Risk of fraudulent business being placed on cover through inadequate controls. (By customer or by Broker via non disclosure)</li> <li>Potential for internal fraud to occur through inadequate controls, resulting in a financial loss for the company. For example, fraudulent expenses, misuse of delegated authorities etc.</li> </ol>	U U	Operational Risk	Fraud	High - Regulatory Issue/Adverse Media Attention	lt shouldn't happen but is possible (3%-10%)	High-Very Low



- **<u>Common language</u>** invest time in this!
- Definition FSB definition appears to be more widely accepted
  - The aggregate level and types of risk a financial institution is willing to assume within its risk capacity to achieve its strategic objectives and business plan
- Can't design it all in one go or lift straight off the shelf:
  - Construct the framework (roles and responsibilities)
  - Document the Statement (Range of risks)
  - Calibrate the limits (Only once relevant risks have been fully agreed)



## Common Language

Risk Capacity         Risk         Appetite	Risk Appetite	The aggregate level and types of risk a firm is willing to assume within its risk capacity to achieve its strategic objectives and business plan
	Risk Capacity	The maximum level of risk the firm can assume before breaching constraints determined by regulatory capital and liquidity needs and its obligations, also from a conduct perspective, to depositors, policyholders, other customers, and shareholders
	Buffer	One issue is how big the buffer between appetite and capacity should be. The buffer should consider possibility of very extreme outcomes and modelling error
	Risk tolerances	Quantitative measures and qualitative assertions for maximum risk allowed by appetite. They should be measurable and reported and monitored by the Board and senior management



- <u>'Cheat sheet'</u> for everyday use:
  - Risk type
  - Metrics in use
  - Applicable policies
  - Responsible roles and relevant Governance Fora
- Projections of compliance with Risk Appetite are a necessary requirement in signing off on a business plan
- New product launches and product reviews need to incorporate Risk Appetite compliance
- Be explicit! Branding all material limits under the 'Risk Appetite' banner will attach a degree of rigour that might otherwise not exist.



'Cheat sheet'

		ALM, Investment & Credit	Life Liability Risks &			
Illustrative Mind Map	Aggregate Level	Risk	Reinsurance Credit Risk	Business Risks	Operational Risk	Reputational Risk
	Risk Management Policy					
	Audit Policy		Reserving			Compliance Policy
	Capital Policy	ALM Policy	Claims		Outsourcing	F& P Policy
	Remuneration Policy	Investment Policy	U/W	Expense Policies	Business Continuity	Conflicts of interest
Policies	Concentration Risk Policy	Liquidity Policy	Reinsurance	Retention Policies	Information Security	Reputational Risk
	Board					
	Board Risk C'tee		U/W C'tee,		Information Governance	Board
	Risk and Control C'tee		Claims C'tee,		Outsourcing Oversight	Audit C'tee
Committees	Product Development C'tee	ALM and Investment C'tee	Reinsurance C'tee	Audit C'tee	Operational Risk C'tee	Assurance Coordination
	CEO		HoAF			
	CRO	CFO	Chief underwriting Officer	CFO		CEO
ersons (Management)	Head of Capital Management	Chief Investment Officer	Head of Claims	Chief Operating Officer	Chief Operating Officer	Compliance Officer
						Breaches
	Solvency	Econonomic Capital				Complaints
	Economic Capital	Stress Tests	Econonomic Capital	Econonomic Capital	Operational Risk Capital	Controls Effectiveness
Neasures	Risk Dashboard	Investment Guidelines	Stress Tests	Stress Tests	Operational Risk KRIs	Audit Outcomes
		Stress testing				Breaches
	Risk Register (RCSAs)	Investment Guideline	Suite of Actuarial Function		IT Risk Reportings	Complaints
	ORSA	Compliance Reports	Reporting	Assumptions review, GLER,	Loss Events Reporting	Controls Effectiveness
Activities / Reports	Emerging Risks	Concentration Risk Reports	Assumptions review	Lapse Reporting	RCSA	Audit Outcomes
	One of the set of the set of the					
	Operational Controls	Operational Controls				
	Financial Controls	Financial Controls				
	Economic Capital Controls	Economic Capital Controls	Operational Controls	Operational Controls	Operational Controls	Operational Controls
ontrols	Compliance with Laws & Regs	Compliance with Laws & Regs	Economic Capital Controls	Financial Controls	IT Standards	Compliance with Laws & R



- Integral part of Strategy, Business Planning and ORSA
- This drives Capital Management Risk and Capital Optimisation
- Day to day decisions throughout the year consistent with strategy and plan are guided by Risk Appetite (and KRI tracking):
  - Product profitability and suitability reviews
  - Investment Committee asset allocation decisions
  - Reinsurance decisions
  - Outsourcing reviews
  - Employee turnover



## Integrated approach





- Principles for an Effective Risk Appetite Framework FSB 2013
- Risk Appetite: A discussion paper CBI 2014
  - Presentation from Máiréad Devine & John McElligott to the SAI ERM Forum on 14th April 2015 titled 'Risk Appetite Perspectives from the Central Bank of Ireland'
- 2013 SAI Risk Insights conference presentation by Eamonn Phelan titled 'Risk Appetite – Latest developments'
- ERM Database: SAI Working Party paper from March 2011 'Constructing a Risk Appetite Framework: an Introduction'



## Society of Actuaries in Ireland

## **Questions?**

## Billy Galavan, 25<sup>th</sup> October 2017





#### Risk Communication An introduction on how to better interact with your business partners

by Caroline Grégoire

Dublin, 25 October 2017

### With Risk Communication...

#### ... WE OFTEN UNDERSTAND AND REFER TO:

- Various written communication, e.g. reports, guidelines, e-mails, meeting minutes, etc.
- Various presentations/discussions held during board meetings, risk management workshops, etc.

#### ... AND IT ALSO INCLUDES...

 Informal talks in the cafeteria, when leaving a meeting, during a coffee break...

The challenge: a wide variety of stakeholders with different degrees of understanding and acceptance of the actuarial/risk management issues or terms



Introduction

**Risk Communication** 

### Let's start!

A asks B:

#### WHY DID YOU CHOOSE YOUR CURRENT JOB?

B answers during **2 minutes** while A listens

AND CHANGE ROLES (A <-> B)

B asks the question, A answers during 2 minutes while B listens





Introduction

**Risk Communication** 

4 types of listening

0: no listening

1: "internal" listening

2: "external" listening

3: listening for patterns...

4 CG Coaching

Introduction

**Risk Communication** 

### Pattern No. 1

#### PROCEDURE / ALTERNATIVE: EXAMPLE OF USED WORDS/EXPRESSIONS

PROCEDURE

- first... second...
- step by step
- at the end
- process
- the best way
- method

#### ALTERNATIVE

- possibilities / options
- to choose
- a better way
- a list of criteria

101



Pattern no. 1

**Risk Communication** 

### Exercise: person A and person B

A asks B:

### HOW DOES YOUR OFFICE LOOK LIKE?

B answers during **2 minutes** while A listens

AND CHANGE ROLES (A <-> B)

B asks the question, A answers during **2 minutes** while B listens





Pattern no. 2

**Risk Communication** 

### Pattern No. 2

## OVERVIEW / DETAILS: EXAMPLE OF USED WORDS/EXPRESSIONS

OVERVIEW

- purpose
- summary
- concept
- "the idea is…"
- "the most important is..."
- simple sentences and few details
- information often not in a specific order

#### DETAILS

- use of many adverbs and adjectives
- correct names of persons / places
- concrete information
- information provided often linear
- "exact, specific"



Pattern no. 2

**Risk Communication** 

### Exercise: person A and person B

A asks B:

#### WHY IS IT IMPORTANT FOR YOU TO: EXERCISE?

B answers: Answer 1

2. A: WHY IS IT IMPORTANT FOR YOU TO Answer 1 ? B: Answer 2

3. A: WHY IS IT IMPORTANT FOR YOU TO Answer 2 ? B: Answer 3

And continue until the WHY question was asked 5 times...

AND CHANGE ROLES (A <-> B)



Pattern no. 3

**Risk Communication** 

### Pattern No. 3

#### TO / FROM: EXAMPLE OF USED WORDS/EXPRESSIONS

TO or TOWARDS

- want to have / reach
- focus on goal / results
- to make it happen
- to start
- to win
- to do / make more
- to include (people, things, places)

#### (AWAY) FROM

- don't want to have
- to avoid / prevent
- to solve problems
- to do / make less
- to exclude

4 CG Coaching

Pattern no. 3

**Risk Communication** 

### 3 key take-aways

- 1. LISTEN for PATTERNS (remember: situation-specific, please no label!)
- procedure / alternative
- overview / details
- · towards / away from

## 2. USE THE PATTERNS OF YOUR BUSINESS PARTNERS to make a better impact with your message

• Adapt the "how" of your communication, the "what" remains the same

#### 3. CHOOSE your MINDSET! Like:

• Positive, calm, constructive, enthusiastic, open, etc. (as long as it aligns with the intention of connecting with those you communicate)



Key take-aways

**Risk Communication** 

### A Conclusion...

... I WISH YOU ALL THE BEST IN YOUR FUTURE ... SO THAT YOU CAN MINIMISE THE

### RISK COMMUNICATION



Conclusion

**Risk Communication** 





#### Contact: caroline.gregoire@cg-four.com

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#### Society of Actuaries in Ireland

# Recovery and resolution plans in banking

#### Monika Smatralova

#### Introduction

#### Focus of today's presentation:

- A brief summary of the latest developments regarding recovery and resolution for (re) insurers.
- An overview of the building blocks and challenges facing banks in the preparation and delivery of the Recovery and Resolution Plans and what key lessons may be learnt from it.



Dr Monika Smatralova is a senior risk practitioner currently leading the Supervisory Review and Evaluation Process within Group Risk, Permanent tsb. Her academic background is in 'Financial Management'. She has been working in risk functions of major high street and captive banks for the last 10 years focusing mainly on credit and operational risk management and measurement, and Enterprise risk management.

Monika is also actively involved in the senior leadership at PRMIA, successfully leading the Irish Chapter since 2013. In 2014 she was elected as the EMEA Regional Directors Committee Co Chair and member of PRMIA Global Council. In 2015 Monika joined the PRMIA Educational Committee. She is a co-author of the PRM designation text books and has published articles in various technical magazines and journals.



### Recovery and Resolution for (Re) Insurers

No formal requirements for recovery and resolution plans in Ireland for (Re) Insurers.

#### **Current requirements for large companies**

- G-SIFIs must undertake recovery and resolution planning
- IAIS requirements adopted for Global Systemically Important Insurers (G-SIIs), Includes 5 EU insurance groups: Aegon N.V., Allianz SE, Aviva plc, Axa S.A. and Prudential plc

#### PRA's Fundamental Rule 8 is for all insurance companies to have a resolution plan

No current plans to issue guidance

#### **EIOPA Opinion – Recovery and Resolution Framework**

Building Blocks					
	Pre-emptive recovery planning				
1. Preparation and planning	Pre-emptive resolution planning				
	Resolvability assessment Early intervention				
2. Early intervention	Early intervention conditions				
	Early intervention powers				
Recovery	Solvency II ladder of intervention – out of scope Resolution				
	Resolution authority				
3. Resolution	Objectives, Conditions, Powers, Safeguards				
4. Cooperation and coordination	Cross-border cooperation and coordination arrangements				

EIOPA have called for a harmonised recovery and resolution framework for all (re)insurers in July 2017 following a qualitative assessment and consultation:

- Minimum harmonisation
- Recovery plans
- Early intervention powers not a new capital requirement
- Resolution powers aim to preserve value
- A natural extension of the ORSA and contingency planning, which are a source of input



### **Recovery and Resolution in Banking**

"We don't want banks to assume they can hold up their hands and get money whenever they are in crisis just because we are a cash rich country. Banks should assume no reliance on public funding going forward". Regulator

75 390	27	Official journal of the European Union	12.6.20
	DIRECTIVE 10	014/59/EU OF THE EUROPEAN PARLIAMENT AND OF T of 15 May 2014	THE COUNCIL
	establishing a frame	work for the recovery and recolution of credit incidenti	on: and investment
	firm: and amending 2004/25/EC, 2005/56	Council Diractive S2[501]EEC, and Diractive: 2001 SEC, 2007[56]EC, 2011[55]EU, 2012[20]EU and 2013[56]E 10 and (EU) No 645[2012, of the European Farihament and EU and (EU) No 645[2012, of the European Farihament and EU)	24/EC, 2002/47/EC, EU, and Regulation:
		(Text with EEA relevance)	
THE	JUROPEAN FARLIAMENT	AND THE COUNCIL OF THE EUROPEAN UNION,	
Hari	og regard to the Treaty	on the Panotioning of the European Union, and in particular	Article 116 thereof,
Hart	ng regard to the proposi	al from the European Committion,	
After	transmission of the dra	aft legislative act to the mation of the	
Harl	ng regard to the opinion	n of the search of Sank	
Hari	ng regard to the opinion	n of the area a Sconomic and Social Committee (*).	
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Wha			
<b>1</b> }	with ensound or failing to prevent intolvency ically important function forced Member States	a therm that there is a significant lack of adequate stells at U g each instructions and involves from (Instruction), acts to or, when insolveny occurs, to mithing angular approach one of the instruction concerned. During the critic, these challes to save instructions using suppoper moves, Tae objective is now instructions using suppoper moves, Tae objective it to obvious the mead for such action to the greater scient p	of a sensed ad, in particular, to by preserving the system- oper were a major factor that of a credible recovery and
Ρ,	proportion of credit in necessitates measures that are otherwise sol	us of systemic dimension in the sense that it effected the a institutions. To avoid failure, with consequences for the over similary to secure access to familing under equivalent consisten- tows. Journ secures involve liquidity support from control unities inseed by notwest credit instruction.	nil economy, such a crisis na for all credit institutions
12)	beyond national bords: in the different Membe institution and resolve metual trust and the s	at an highly integrated and interconnected with many initia m. The follow of a cross-locate institution it likely to effect the er Janes in which is operator. The handlay of identities Joint it is a way that effectively presents broader systemic damage on conducting of the internal market in the field of fituation service an asserbil condition for the southitment and functional servi-	stability of financial markets to saize control of a failing in undermine Member Stater set. The stability of financial
88	C 25, 12.2.2013, p. 1. C 44, 15.2.2013, p. 45.	farment of 15 April 2014 (not not published in the Official Journal) an	d das dastellans of the Presentl of

- Established by Regulation (EU) No 806/2014 on the Single Resolution Mechanism (SRM Regulation), the Single Resolution Board (SRB) has been operational as an independent European Union (EU) Agency since January 2015.
- 2017 is the third year of drafting recovery plans for banks.
- > And it is **still evolving on both sides**...
- Resolutions Plans are drafted by the regulator and only partially shared with the banks.



### **Elements of Recovery Plans**

"Banks should develop recovery plans that identify credible options to survive a range of severe but plausible stressed scenarios." Regulator

#### Key Building Blocks :



- 1. Governance
- 2. Documentation and Data
- 3. Integration
  - 4. Scope



5. Critical functions





7. Recovery Options



- 8. Scenarios
- Ê
- 9. Testing, feasibility and updating

6. Recovery Plan Indicators & Triggers



10. Communication



### So how it works practically....

BAU	Early Warning Stage	Recovery Stage	BAU
Isolated events constantly occur, they may reinforce each other and may become a threat. This creates <del>possible</del> potential <b>scenarios</b> with possible implications for a specific bank (or the whole system)	this should be captured with the Recovery Plan Indicators and Triggers	implemented by the bank	with the aim to achieve the running business within a specific period of time.
Scenarios	Indicators	Recovery Measures/Options	Indicators
Idio-syncratic (fast)		12 months	-
Market-wide (fast)	> Capital Indicators	Capital Raising &/or Preservation	
Idio-syncratic (gradually, slow)	Liquidity Indicators	<ul> <li>Restructuring of Liabilities</li> <li>Cost Reduction</li> </ul>	s Back to
Market-wide (gradually, slow)	<ul> <li>Profitability</li> <li>Indicators</li> <li>Asset Quality</li> </ul>	Sale of Assets/Loan Portfolio	'Normality
Combo – Idiosyncratic & market –wide (fast)	Indicators Market Indicators	<ul> <li>Liquidity Improvement Recovery</li> </ul>	
Combo – Idiosyncratic & market – wide (gradually, slow)	<ul> <li>Macro Economic Indicators</li> </ul>	<ul> <li>Reduction of RWA/Leverage</li> <li>Disposal Recovery Option</li> <li>Management Actions</li> </ul>	IS



#### Awareness of the logistics of execution and its impediments is crucial.

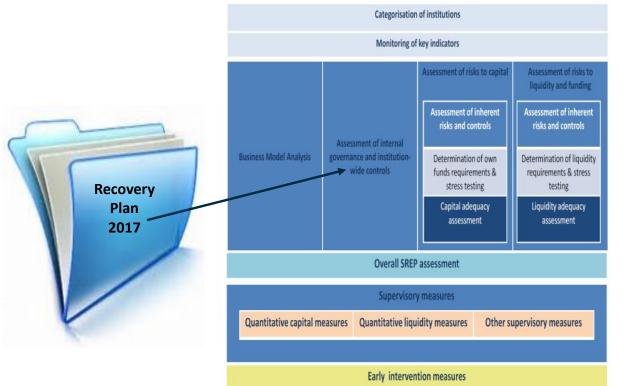
Capital Raising	Capital preservation	Restructuring of liabilities	Sale of asset/loan portfolio	Liquidity Improvement	Reduction of RWA/leverage	Disposal Recovery Options	Management Actions/Cost Reductions
<ul> <li>Rights issue</li> <li>Ordinary capital increase</li> <li>Issue of mandatory</li> <li>convertible bond</li> <li>Issue of AT1</li> <li>Issue of T2</li> <li>Parent support</li> <li>Conversion of T2 capital into T1 capital</li> <li>Intra-group credit line</li> </ul>	<ul> <li>distribution of dividends to shareholders</li> <li>No payment of coupon on AT1/T2 issues</li> <li>► Earnings retention</li> </ul>	<ul> <li>management transactions</li> <li>T2 instruments buyback</li> <li>Reduce the trading book</li> </ul>	<ul> <li>Sales of leveraged loan portfolios</li> <li>Securitisation of portfolios</li> <li>Synthetic securitisation</li> <li>Asset sales – real estate</li> </ul>	facilities with routine	<ul> <li>Unwind of portfolio management</li> <li>Unwind of fixed income financing</li> <li>Portfolio run- off</li> <li>Sale of strategic equity stakes</li> <li>Unwind of equity derivatives business</li> </ul>	<ul> <li>Sale of business lines</li> <li>Sale of subsidiaries</li> <li>Sale of significant equity holdings</li> </ul>	<ul> <li>Reduction in personnel</li> <li>Stop/delay IT investments</li> <li>Cancel bonus payment</li> <li>Reduction in working time</li> <li>Reduce lending</li> <li>Increase fee income</li> </ul>

The selection of the appropriate option (s) depends on the severity and characteristics of the risk event, options may be combined in order to support the bank's return to the BAU status.



### Regulator assesses the Bank's Recovery Plan

Recovery plan is assessed under the Supervisory Review and Evaluation Process (SREP) and therefore impacts the Bank's SREP score.



#### SREP Framework (Source: EBA)





### Recovery Plans – Practical Experience

- Intended to be living documents which demonstrate that the recovery measures presented can be implemented in reality – and that is not an easy task (superficial plans are rejected, resubmissions are required)
- Must be achievable (practical) and capable of being put into action straight away (executed within 12 months)
- Consideration for Idiosyncratic vs systemic situations or both (fast vs slow pace)
- Operational plans (levering with existing contingency planning) arranging counterparties, setting up data rooms, line up investment banks etc.
- Consistency with ICAAP, Risk Appetite Statement and Stress Testing/Risk Management (existing Risk Management Framework)
- A number of iterations are required as regulator and company evolves expectations of plans
- Resolution plan not typically disclosed to the bank
- The length of recovery plans can span hundreds of pages, maintenance of the plan, data and supporting analysis is a crucial requirement
- Synchronisation of the Operational and Financial Contingency
- Interpretation of the regulations potential inconsistency in regulatory requirements and possible national interests



# Case Study: recent cases

#### Banco Popular Espaňol S.A. (7 June 2017, Spain)

- ➤ Driven by a significant deterioration of bank's liquidity situation (approx. €2bn withdrawn a day)
- Collapse primarily attributed to 'toxic' real estate loans on its books and its failure to raise fresh capital
- SRB assessed that the resolution of bank is in the public interest and adopted a resolution scheme
- Shareholders and junior bondholders have been wiped out

#### Veneto Banca & Banca Popolare di Vicenza (25 June 2017, Italy)

- Driven by bad loans and dragged down by a mis-selling scandal
- Decision a result of lack of capital (failed attempts to raise fresh capital)
- SRM concluded that conditions for a resolution action were not fulfilled
- Banks to be wound up under Italian insolvency procedures (a total cost of up to €17bn)

# Thank you!





#### Society of Actuaries in Ireland

### General Data Protection Regulation: Legal Insights and Impact on Insurers

Paul Lavery

### Topics

- The EU Data Protection Regulation Main Prospective Changes
- Impact on (Re) Insurers
- Countdown to Compliance





- Data Protection Acts, 1988 and 2003
- Data Protection (Access Modification) (Health) Regulations 1989
- Data Protection Act 1988 (Section 16(1)) Regulations 2007



# **Prospective Legislative Regime**

- General Data Protection Regulation replaces existing law in May 2018
- Irish Data Protection Bill



## **General Data Protection Regulation**

- Retains existing data protection concepts and requirements
- Increases obligations on controllers/processors and affords new rights to data subjects



- Definitions (Article 4) Similar to existing regime
- **Personal data** relates to identified or identifiable living individuals (not anonymised data)
- Processing widely defined includes any collection, recording, organisation structuring, storage, adaptation or alteration, retrieval, consultation, use, disclosure, erasure or destruction of data
- Controller entity which determines the purposes and means of processing of personal data
- **Processor** entity which processes personal data on behalf of controller e.g. outsource service provide



- Personnel/employment files
- Customer correspondence (email and hard copy)
- Application forms
- Financial information
- Records of telephone calls
- E-mails
- Records of websites visited
- CCTV images



- Why is data protection important to insurance companies?
- Holder of large repository of customer data (held by or on behalf of insurers)
- Focus by DPC on insurance companies' activities including use of Private Investigators



### Main Controller Obligations



- Articles 5(1)(a), 13 and 14
- Data Subject must be made aware:
  - Controller holds personal information about him/her
  - Purposes for which information kept
  - Disclosures of data
  - Certain other details (additional to those required under existing law)



- Duty to legitimise processing (Article 6)
- Justify on one of the following grounds:
  - consent of data subject
  - processing necessary for performance of contract (to which data subject party)
  - legal obligation (non-contractual)
  - legitimate interests



- Personal data relating to:
  - racial or ethnic origin
  - political opinions
  - religious or philosophical beliefs
  - trade union membership
  - physical or mental health
  - sex life or sexual orientation
  - genetic data
  - biometric data for identification



- Controller must satisfy one of the following grounds (Article 9):
  - explicit consent of data subject
  - exercise/performance of employment rights/obligations
  - obtaining legal advice/legal proceedings or the establishment, exercise or defence of legal claims
  - processing necessary for reasons of substantial public interest on the basis of Union or member state law



- Purpose Limitation (Article 5(1)(b): Data to be kept for Specified, Explicit and Lawful Purposes and not further processed for any incompatible purposes
- Data Minimisation (Article 5(1)(c)): Data should be adequate, relevant and not excessive
  - Keep only the minimum amount of personal data needed for the purpose for which it is being processed
  - >Avoid keeping irrelevant or excessive data
- Obligation to keep personal data accurate and up-todate (Article 5(1)(d)



- Appropriate security measures must be taken against unauthorised access to, alteration, disclosure or destruction of personal data
  - state of the art and cost of implementing security measures
  - severity for rights and freedoms of data subjects that might result from unauthorised disclosure
- Potential measures pseudonymisation, encryption, ability to ensure confidentiality of systems, ability to restore availability and access to personal data, regular testing of security measures



- Data Security Breach Notification
  - Mandatory notifications to Data Protection
     Commissioner within 72 hours unless breach unlikely
     to result in a risk to data subjects
  - Mandatory notification to affected data subjects
     "without undue delay" where there is a high risk to data subjects
  - Data processors required to notify data controllers of data security issue without undue delay



- Obligation not to keep personal data for any longer than is necessary
- Data should not be kept on a just-in-case basis
- Record Retention Policy



- Prohibition on Transfer of Personal Data outside European Economic Area (EU, Iceland, Norway and Liechtenstein) unless recipient country ensures adequate protection
- Andorra, Argentina, Canada, Faroe Islands, Guernsey, Isle of Man, Israel, Jersey, New Zealand, Switzerland and Uruguay found to have adequate protection.



- Prohibition will not apply, amongst other things, if:
  - data subject consent
  - transfer necessary for purpose of obtaining legal advice or for legal proceedings
  - data transfer agreement, in the form approved by the European Commission
  - Binding corporate rules
  - Privacy shield (if transfer is to United States)



- Rights of data subjects to a copy their personal data
- Similar rights to existing law, but:
  - no charge
  - 30 day period (can be extended by up to 2 further months)
  - no exemptions enshrined in GDPR must be reflected in local law (Data Protection Bill or regulations made under it)



- "One Stop Shop" Single EU Regulator
  - Organisations operating in multiple jurisdictions will be regulated primarily by national data protection authority in the country of organisation's "main establishment"
  - One Stop Shop now somewhat "watered down" includes consultation obligations with other relevant authorities



- Right to erasure ("right to be forgotten")
  - Strengthening of pre-existing rights of data subjects to require erasure of personal data
  - particular emphasis on the right of a data subject to require erasure of data made available when he was still a child



- Right to Data Portability (Article 20)
  - Right to receive data which (s)he provided to data controller in a structured, commonly used and machine readable format and to have it transmitted to another data controller where:
    - processing is based on <u>consent</u> or <u>contract</u> with the data subject; and
    - processing is carried out by automated means
  - > Consider strategy for collection and use of personal data
- Article 29 WP Guidance data "provided" to controller includes data which controller "observed" about data subject – e.g. includes data analytics?



- Increased internal governance and responsibility
  - removal of registration obligation (Insurance Companies will no longer need to register)
  - requirement replaced with obligation to adopt internal policies and procedures which demonstrate compliance with data protection laws
  - privacy by default and design
  - Data Protection impact assessments



- Various entities will be required to appoint a data protection officer ("DPO") to oversee compliance with the Regulation:
  - > all public authorities (except courts)
  - bodies which are likely to be monitoring data subjects on a large scale
  - controllers or processors with large scale of special categories of data
  - Solution of the other categories to the extent required by Member State law
- Likely that Insurance Companies will be required to have DPO



- DPO to be appointed on the basis of professional qualities and, in particular, expert knowledge of data protection law and practices and the ability to fulfil DPO tasks
- DPO may be employee or third party service provider
- Need to ensure that DPO is involved properly and in a timely manner in all issues relating to protection of personal data
- DPO cannot be dismissed or penalised for performing DPO tasks



- Inform and advise on data protection
- Monitor compliance with GDPR and policies and procedures
- Advice on data protection impact assessments



- New: Severe financial penalties
  - potential fines up to 4% of annual worldwide turnover or €20 million (whichever is greater)
  - fines may be levied by Data Protection Authorities themselves



- Further local legislative measures required in specified circumstances, e.g.:
  - Further local legislative measures required to reflect (i) exemptions from obligations and (ii) exemptions from access rights – provided that the local measures comply with the general parameters set out in GDPR
  - Further categories of organisations required to have DPOs
  - > establishment of Data Protection Authority
- General Scheme of Data Protection Bill published on 12 May 2017



- Data Inventory what, where, why and for how long need to carry out full inventory of personal data
- Data protection notices and various data protection policies and procedures – review of existing policies and procedures and potential need for additional policies
- **Controller/processor agreements** will require more detail
- **Privacy statements** will require more detail
- Data protection audits/assessments; Data Protection Impact Assessments – new forms of processing are likely to require data protection impact assessments
- Data security breaches mandatory reporting



- DPO Appointment Requirement to ensure that DPO is appointed and that there is appropriate support – Potential need to enshrine guaranteed independence in role
- Potential Fines "Ups Ante" in respect of compliance



- Time to "spring clean privacy practices" and prepare for GDPR
  - Get senior "buy in" to DP compliance without senior buy in, compliance will be hard to achieve
  - 2. Data Inventory Review/health check of data and processing activities data protection audit/assessment
  - 3. Review basis for processing e.g. consent, legitimate interests, necessary for contract performance etc
  - 4. Policies, procedures and notices review/develop necessary internal policies/procedures and notices



- 5. DPO appointment
- 6. Review third party processing and international transfers
- 7. Keep an eye out for prospective data protection bill and DPC guidance

Main message: No need to panic, but if an organisation hasn't started, start now