

Recent trends and best practices in operational risk management

Best Practices in the Financial Services Industry

ARIANE CHAPELLE

read a sample chap tinyurl.com/ operationalriskmanag Cyprus Economic Society Dr. Ariane Chapelle November 28, 2018



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Topics

- 1. Definition and Scope of Operational Risk
- 2. Frameworks and Tools
- 3. Partners and Decision-Making
- 4. Governance and Culture
- 5. Maturity Criteria and Risk Management Trends



Operational Risk

.. is the risk of loss resulting from inadequate or failed internal processes, people, and systems or from external events. (Basel II, Solvency II)



Risk Events (in just one day)



The bank's chief executive Paul Pester faced stinging criticism from regulators and politications during a criting in front of the influential measury Select Committee T3B has experimented more than

T38 has experienced more than 2,200 confirmed fluod attempts with more than 1,300 confinersy having money studen. T38 has promived to compensate traintours who are left out of pocket in any way. Fronter said the bank had been hit by an "supreventented attack on UK

an "tinprecedented attack on UK banking from organised crime", with or FFLBS: frand attacks 70 times higher than

miles customers have switched th

Credit Suisse agrees to pay US \$47m over Asia hiring practices

REBECCA SMITH

@BexKSmith

CREDIT Suisse will pay \$47m (£35m) to the US Department of Justice over hiring practices in Asia, the bank confirmed yesterday.

The Swiss bank is paying the penalty to resolve a probe into hiring practices in Asia between 2007 and 2013, after it was announced in February that US authorities were investigating whether Credit Suisse had hired referrals from government agencies in Asia in return for business and regulatory green lights Credit Suisse said no criminal

charges have been brought and the \$47m has been "substantially provided" for in prior periods.

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MAYFAIR BLAZE A huge fire broke out yesterday afternoon at the five-star Mandarin Hotel on William Street, Knightsbridge

A GIANT blaze engulfed the top floors of the Mandarin Hotel in Knightsbridge yesterday. Plumes of smoke were seen billowing from the hotel's rooftop. The London Fire Brigade said 15 fire engines and more than 100 firefighters were called to the scene. There were no reports of any injuries. The fire is thought to have spread to multiple floors across a "vertical facade" containing plants.

Data firm was victim of media storm, boss says

JOSH MINES

@Josh Mines

THE BOSS of Cambridge Analytica Alexander Nix has come out all guns blazing as he claimed the company was the victim of a "concerted campaign" by the "global liberal media". In a heated encounter with the Digital, Culture, Media and Sport Committee yesterday, Nix told MPs: "If you were sitting where I am right now you'd probably feel quite victimised." The hearing comes weeks after the comany filed for bankuptcy in the UK and he US. The fake news

current state of Cambridge Analytica Nix also piled into the broadcate press, as he described Channel 4 New of running "a very deliberat programme of deception" against h company.

The TV station secretly filmed N claiming the company used briber honey traps and extortion to win else tions. Nix claims the news broadcast deliberately edited his words out context to misrepresent what he se on the film.

In response, Channel 4 News sain "absolutely" disagreed w adding that all comme used in the program were put in context.



juiry kicked off in

Risk Events – cont'd

It was revealed earlier in the week that Facebook reached at least 60 deals with device makers over the

last decade, giving firms access to some users' data for the purpose of FACEBOOK confirmed yesterday it building on "the Facebook partnerships with Chinese mobile experience" with features like holds several data sharing device makers, as its second user address books and messaging. address books and messaging. Facebook denied allegations that any of these deals conflicted with its privacy scandal worsens under the The deals include relationships with firms like Husseel, Lenovo. Oppo and TCL, despite longstanding, national security concerns from the

Facebook comes under fire over data sharing deals with Chinese tech firms testimony to US Congress, not did they represent a new data breach. A Facebook vice president said that all integrations with Chinese device makers were "controlled from the get go", with all features built being approved by the company itself. He added that at no point was any data stored on company servers. committee has written to Facebook. asking for further clarification. promote a career

Luke Graham examines the frontline defence business has against digital attacks: the chief information officer or think of hackers who treat it as a

will stop a lot of attacks and is well The changing nature of these attacks worth doing." is also a cause for concern to many CIOs. For most people, when they hear about cyber attacks, they might imagine individual criminals acting alone,

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Only 22 per cent of those surveyed said that their organisation was well-prepared for a cyber attack

"sport" and are only breaking into organisations for bragging rights. But the amateur backer is far down the list of fears for CIOs - instead, the survey found that 77 per cent of these IT leaders are most concerned by the threat of organised other crime, up

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from 71 per cent the year before. Organised ofber crime can take many forms, from ransomware attacks, like last year's WannaCry assault which targeted systems around the world, to phishing scams and fraud, as seen in the aftermath of the recent TSB melt-

Ferbrache adds that organisation increasingly have to deal with cry down tocurrency malware - hackers a infecting computer systems with o that causes a device to begin mining cryptocurrency such as bitcoin that to the hacker, which diverts com

CHAPE CONSULTING

gaze of US Congress.

EMILY NICOLLE

Top 10 risks in 2018

	2018 position	2017 position	Change
IT disruption	1	1*	€
Data compromise	2	1*	€
Regulatory risk	3	2	V
Theft and fraud	4	9	
Outsourcing	5	3	\bullet
Mis-selling	6	5*	
Talent risk	7	new	
Organisational change	8	6	◆
Unauthorised trading	9	5*	
Model risk	10	-	

Source: Risk.net, Feb 22, 2018



ORM Strengths and Weaknesses: CRO survey 2017

Table 1: Frequently cited strengths and weaknesses in operational risk management

Strengths	Weaknesses
Risk-neutral framework	Sub-optimal management information
Well-developed set of standard and	Minimal integration of advanced analytics
mature tools	Ineffective and inefficient controls
Good visibility of major risks	Risk culture not sufficiently embedded
Strong senior management mandate	Lack of business and specialist skills

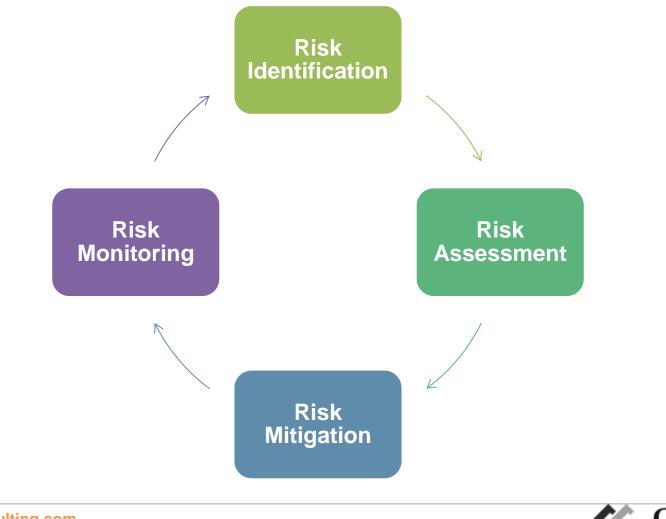
Source: The Future of Operational Risk, ORX / McKinsey, May 2017



Framework and Tools



Risk is the effect of uncertainty on objectives





Risk Management Process





Risks Identification tool: *Exposures* and *Vulnerabilities*

Exposures

- Key distribution channels
- Main clients
- Main suppliers and third parties
- Critical systems
- Regulatory exposure
- Main drivers of revenues, drivers of value
- Brand value

• ...

Vulnerabilities

- Weakest links
- Fragile systems
- Revenue channels at risk
- Systems or processes not integrated
- Parts of the business resistant to risk management
- Small, unmonitored operations or people
- Unmaintained systems
- BCP due for testing or updates

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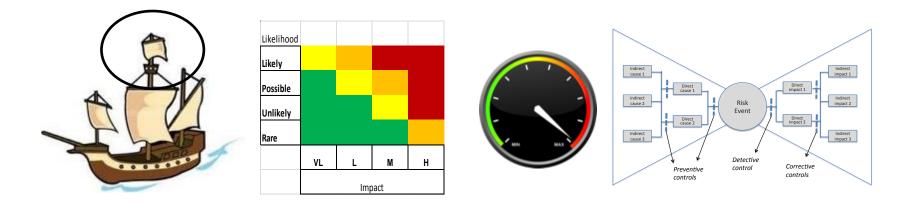
Some key messages

- 1. Make your own personal list of key risks
- 2. An institution's risk profile is personal, related to its exposures and vulnerabilities
- 3. Don't neglect risks that haven't materialised yet
- 4. Focus and prepare for large events... just in case
- 5. Watch the trends, but don't forget blind spots

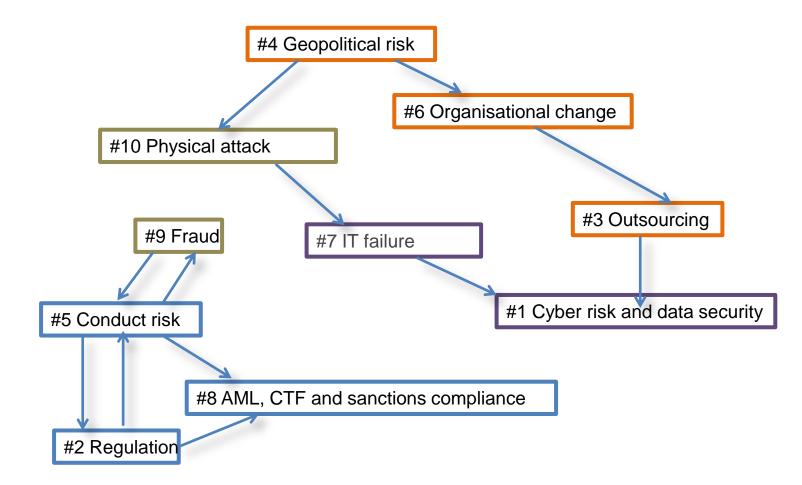


ORM tools and best practices in a nutshell

- RCSA: updated when needed (yearly or trigger event) and backtested with loss experience and in line with risk appetite
- KRIs Key Risks Indicators: leading, preventative
- Scenario analysis: to guide risk management actions and priorities
- Risk reporting and root cause analysis: effective, helping decision-making



Connectivity for management priorities: a network view of the top risks - 2017



Source: A. Chapelle "Reflections on Operational Risk Management", 2017, Risk books.



Partners and Decision-Making

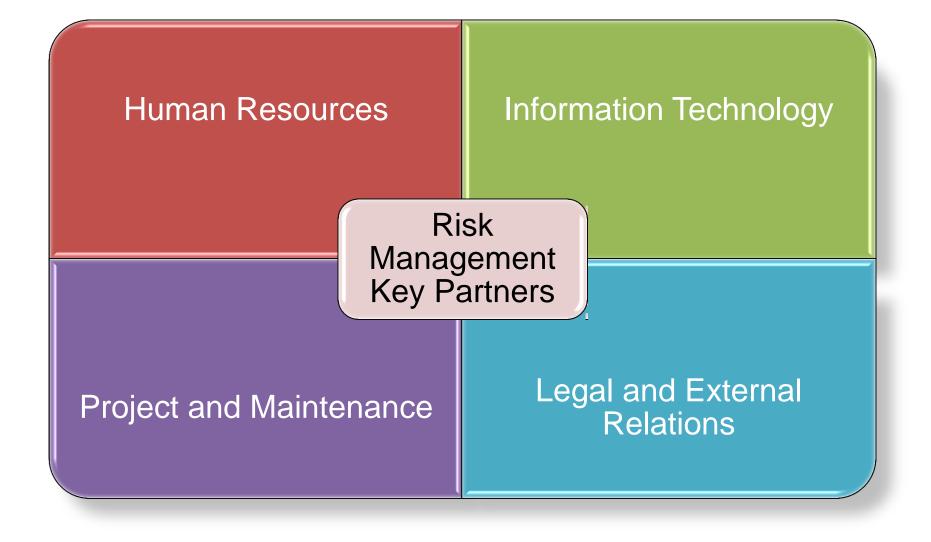


Drivers of Operational Excellence: PPSE

People	Process	Systems	External Events
Resourcing	Automated	Integration	External fraud and threats monitoring
Ability	Integrated	Capacity	Cyber crime protection
Engagement	Standardised	Performance	Legal & Regulatory monitoring
Retention	Documented	Maintenance	Technological veil
Related literature: Human Reliability Analysis (HRA)	Related literature: Business Process Reengineering (BPR)	Related literature: IT performance management	Related literature: business intelligence and strategy

Source: A. Chapelle "Reflections on Operational Risk Management", 2017, Risk books.

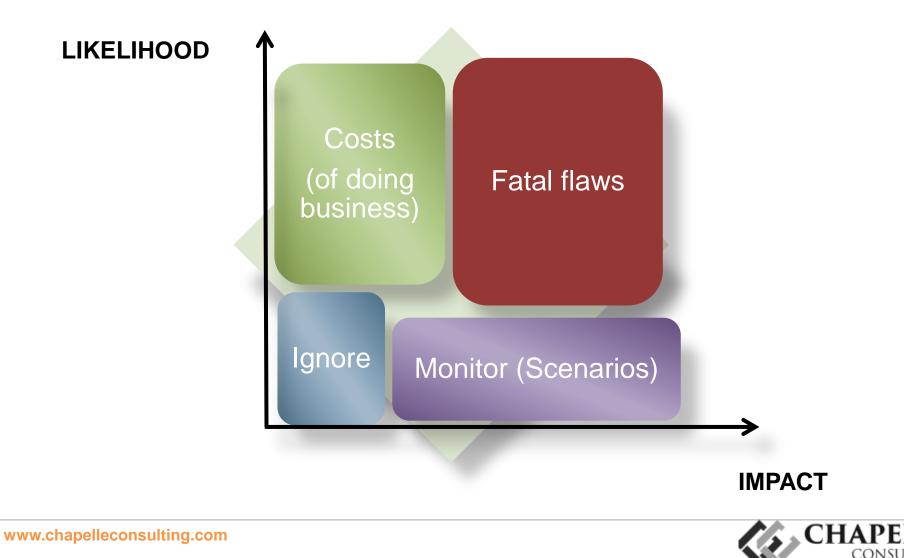








Prioritising risk management for better decision-making



Risk and Opportunity – Typology of decisions

Туре	Characteristics	Examples
Silly risky decisions	Large downside, no upside, small cost of control	Not buckling a car seat belt, not locking a work station
Violating decisions	Attractiveness of large personal upside (profit) or fear of a large personal downside (sanction, lay-off) conducing to break a rule	Rogue trading, compliance breaches, conduct violations, misstatements of accounts
Chilly decisions	Fear-driven, excessive protection destroying the likelihood and value of the initial upside	Redundant controls on non critical processes, more financial, human and technical resources dedicated to the controls than to the operations, more controls layers than execution layers, "quality assurance of quality assurance" (sic)
Balanced decisions	 Striking an accepted trade-off between risks and expected rewards, balancing the prospects of upside with the eventuality of downside. 	All thought-trough investments decisions, commercial initiatives, entrepreneurial projects, where risk is accepted if fairly compensated by expected returns.

Source: A. Chapelle "Reflections on Operational Risk Management", 2017, Risk books.



Governance and Culture



Three lines of defense model

First line: business operations / risks owners

- Front line of risk management
- Real line of risk management
- Risk is managed where it is generated

Second line: risk management

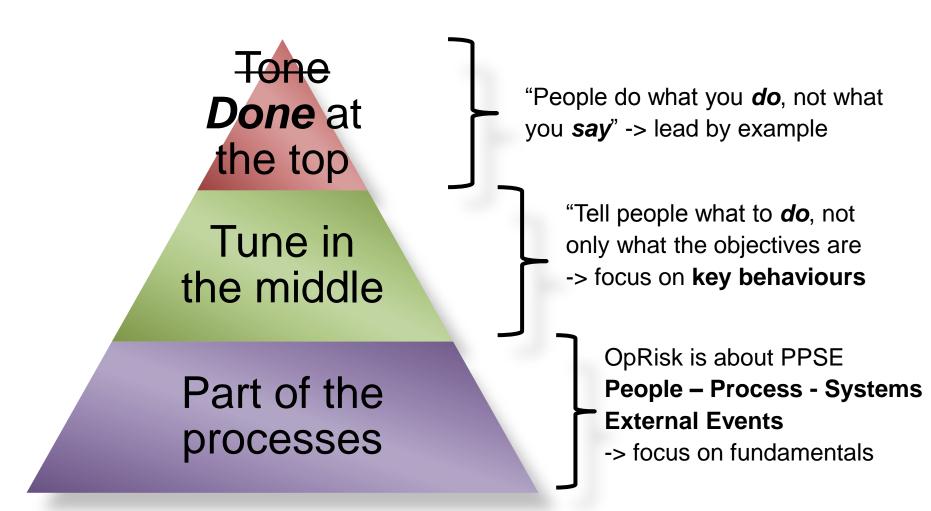
- Methodology unit and coordination
- Oversight and harmonisation of practice
- Advice and support
- Challenge if need be

Third line: internal audit

Independent review and assurance



How to embed a risk culture?





Risk Buy in - The role of the Risk Function

Building an *Invisible Framework*, for risk management it is:



www.chapelleconsulting.com <u>Source</u>: A. Chapelle "Reflections on Operational Risk Management", 2017, Risk books.

Maturity Criteria & Risk Management Trends





Framework Maturity Criteria

- 1. Incident Data Base is comprehensive.
- 2. Risk reporting is fed from and back to business lines with benchmarks and comparisons across similar entities.
- 3. Risk assessments are consistent and comparable across business lines
- 4. Action plans and mitigating actions are based on risk assessment, not just in response to incidents. They are linked to risk appetite.
- 5. Results of scenarios identification and assessments are used to improve management decisions.
- 6. KRIs are preventative, relevant and actively used
- 7. Executive directors understand the concept of risk appetite to agree on limits of exposure and necessary controls.
- 8. Risk management culture is valued throughout the organisation



Evolutions of Risk Management

Resilience focus

- Better incident management
- Crisis management pre-planning

Control assessment and testing

- Observability of controls
- Optimisation of processes

Behavioural economics

- Culture and Conduct through behaviour drivers
- Desirable versus unacceptable behaviours

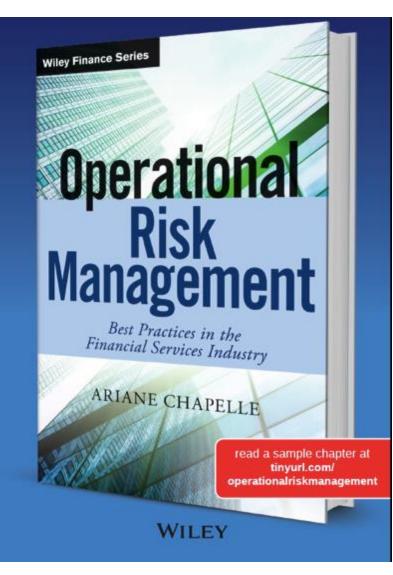
Positive risk management

- Recognise the rewards when taking risk
- Recognise the value of risk management
- Positioning risk management as an enabler of performance

To know more



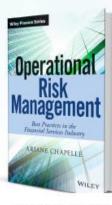
From December 2018



Operational Risk Management

Best Practices in the Financial Services Industry

ARIANE CHAPELLE



9781119549048 • Hardback 240 pages • December 2018 £40.00 / €45.20 / \$55.00

Operational Risk Management: Best Practices in the Financial Services Industry provides a comprehensive overview of the most up to date methods and practices in operational risk management applied in financial services firms.

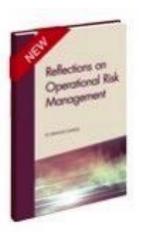
Coverage includes:

- Risk Identification: tools, scenario analysis, risk register and taxonomy, risk connectivity, and risk networks
- Risk Assessment: risk appetite, risk and control self-assessment, scenario analysis, regulatory capital and modelling
- Risk Mitigation: operational risk governance, controls, transfers and prevention by design, root cause analysis and action plans, conduct, and culture
- Risk Monitoring: incident data collection, key indicators, risk reporting, and the value of risk management
- Advanced tools and techniques developed by the most mature firms in operational risk management.

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Reflections on Operational Risk Management



28 articles around 6 themes

- Essentials of Operational Risk and Risk Management Framework
- 2. Risk appetite and Risk decisions
- 3. Key Risk Indicators and reporting
- 4. Culture and Conduct
- 5. Scenario Analysis and tail risks
- 6. Operational risk capital & measurement



Thank you for your attention

Any question or comments:

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