



17<sup>TH</sup> SOUTHERN AFRICAN INTERNAL AUDIT CONFERENCE  
*Guardians of Governance*  
11 - 13 AUGUST 2014 • SANDTON CONVENTION CENTRE

# Clarifying the Confusion between COSO and ISO



# Clarifying the Confusion between COSO and ISO



# Introduction



According to the Association of Certified Fraud Examiners, a typical organisation loses an estimated 5% of its annual revenues to fraud.

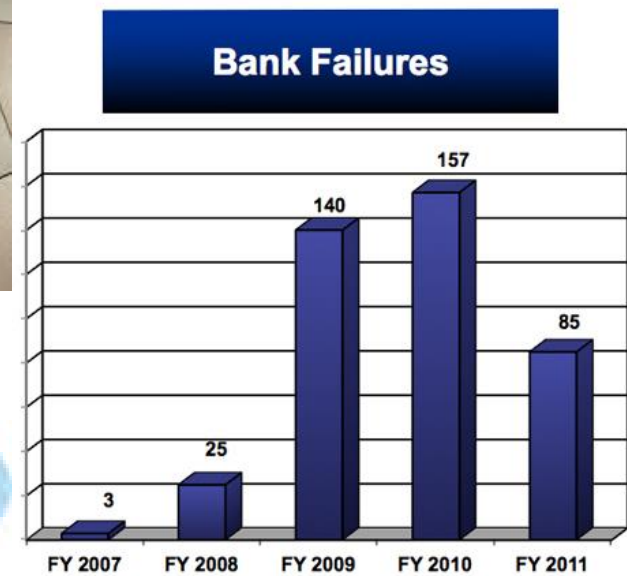
# PwC Global Economic Crime Survey 2014 results

## Incidence of the various types of economic crime



**SA respondents reported more instances of procurement fraud, bribery & corruption, financial statement fraud and human resources fraud than their global counterparts**





## The Rise and Fall of WorldCom

The World's Largest Accounting Fraud  
By John P. Meyer (edited)

# Why COSO?



## COSO's structure and mission

- COSO is a joint initiative of five sponsoring organisations
  - American Accounting Association (AAA)
  - American Institute of Certified Public Accountants (AICPA)
  - Financial Executives International (FEI)
  - Institute of Management Accountants (IMA)
  - Institute of Internal Auditors (IIA)

**COSO's  
mission is...**

*"...to provide thought leadership through the development of comprehensive frameworks and guidance on enterprise risk management, internal control and fraud deterrence designed to improve organizational performance and governance and to reduce the extent of fraud in organizations."*

[www.coso.org/aboutus.htm](http://www.coso.org/aboutus.htm)

# COSO Internal Control-Integrated Framework

- First published in 1992
- Gained wide acceptance following financial control failures of early 2000's
- Most widely used framework in the US
- Also widely used around the world



Original COSO  
Cube

Important update in 2013



# COSO Internal Control – Integrated Framework

The Updated Framework intends to reflect the major changes that have occurred in the economic environment, governance expectations, and associated risks since the original publication in 1992.

## Existing pre 2013:

Internal Control – Integrated Framework, 1992

Evaluation Tools, 1992

Enterprise Risk Management, 2004

Guidance for Smaller Public Companies, 2006

## New in 2013:

Internal Control – Integrated Framework

Evaluation Tools

Compendium of Approaches and Examples of Internal Control over External Financial Reporting

## Other COSO Publications:

- Monitoring Guidance, 2009
- Embracing ERM, Practical Approaches for Getting Started, 2011
- ERM, Understanding and Communicating Risk Appetite, 2012
- Enhancing Board Oversight, Avoiding Judgment Traps and Biases, 2012
- ...

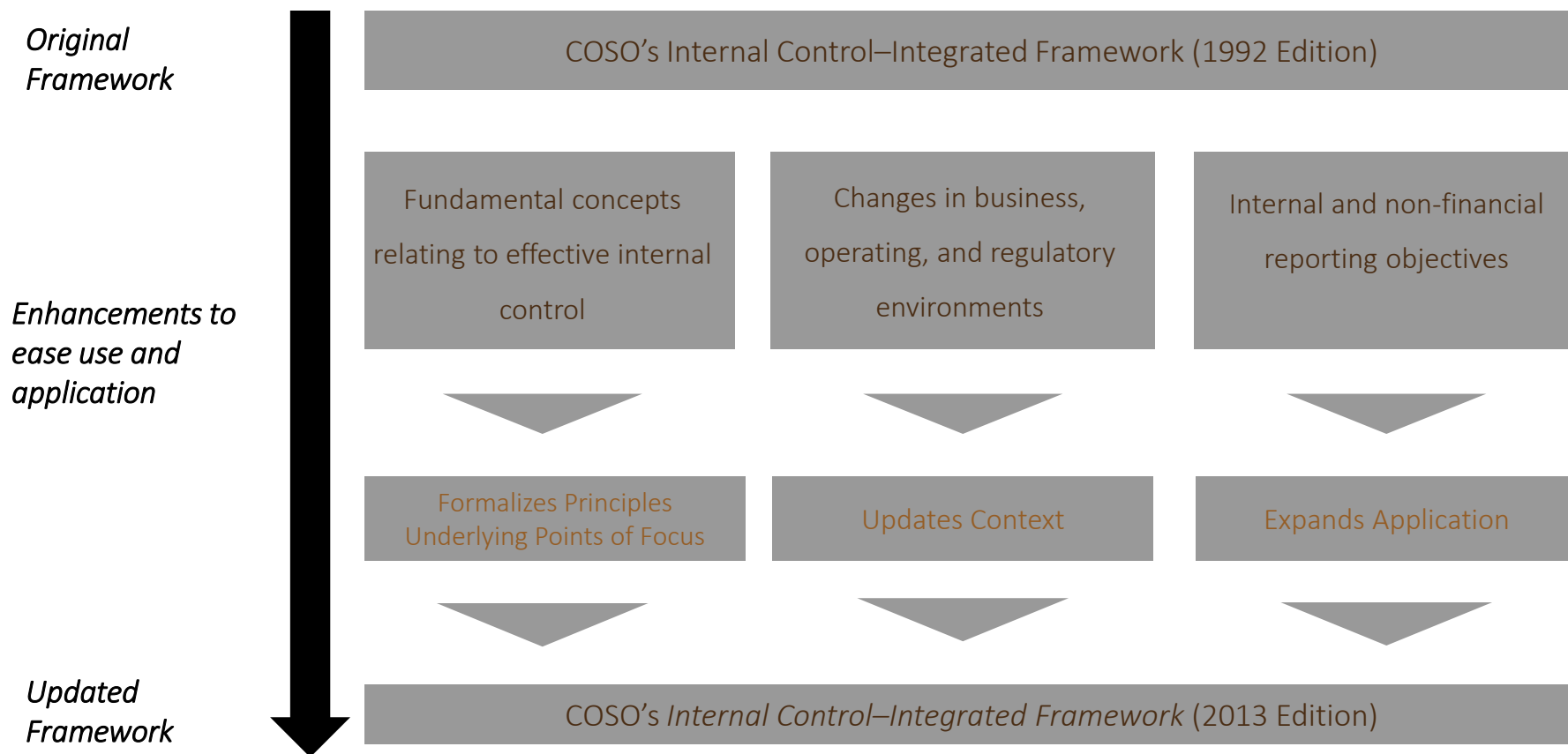
Legend:

superseded

remaining



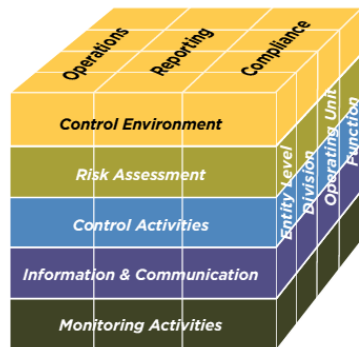
# Context and Objectives for the COSO Update Project



# What is Changing in COSO IC 2013?

## What is not changing...

1. Core definition of internal control
2. Use of judgment remains important in designing, implementing, and conducting internal control, and in assessing effectiveness
3. Effective internal control requires five components



## What is changing...

1. Expansion of the scope of reporting objectives beyond financial information
2. Governance (committee roles, alignment with business model...)
3. Succession planning and talent management for internal control
4. Articulation of 3 'lines of defense' (operational management, support functions, internal audit)
5. Linkage between risk, performance, and reward
6. 'Tone in the middle' and across the entity
7. More explicit consideration of outsourced service providers and other third parties affecting internal control (adherence to code of conduct and expectations beyond reliability of financial reporting)
8. Adaptability and adequacy of the internal control system relative to changes in the business (processes, roles, structures, IT, scope of business...)

# The Update formalises fundamental concepts embedded in the original Framework as principles

## Control Environment

1. Demonstrates commitment to integrity and ethical values
2. Exercises oversight responsibility
3. Establishes structure, authority and responsibility
4. Demonstrates commitment to competence
5. Enforces accountability

## Risk Assessment

6. Specifies suitable objectives
7. Identifies and analyzes risk
8. Assesses fraud risk
9. Identifies and analyzes significant change

## Control Activities

10. Selects and develops control activities
11. Selects and develops general controls over technology
12. Deploys through policies and procedures

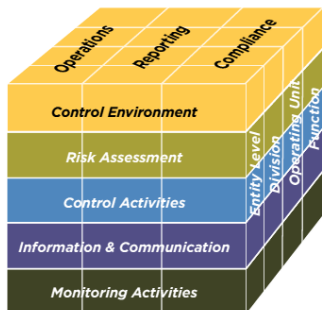
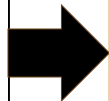
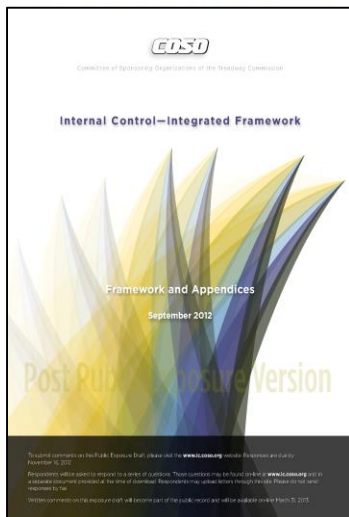
## Information & Communication

13. Uses relevant information
14. Communicates internally
15. Communicates externally

## Monitoring Activities

16. Conducts ongoing and/or separate evaluations
17. Evaluates and communicates deficiencies

# Understanding the Framework



5 Components consistent with the original Framework	17 Principles codifying what should be present and functioning	85 Points of Focus representing salient points for demonstrating the associated Principle
1. Control Environment	1. The organization demonstrates a <b>commitment to integrity and ethical values</b> 2. ... 3. ... 4. ... 5. ...	<ul style="list-style-type: none"> <li>• <b>Sets the Tone at the Top</b>—The board of directors and management at all levels of the entity demonstrate through their directives, actions, and behavior the importance of integrity and ethical values to support the functioning of the system of internal control.</li> <li>• ....</li> </ul>
2. Risk Assessment	6. ... 7. ... 8. ... 9. ...	...
3. Control Activities	10. ... 11. ... 12. ...	...
4. Information & Communication	13. ... 14. ... 15. ...	...
5. Monitoring Activities	16. ... 17. ...	... 81. ...



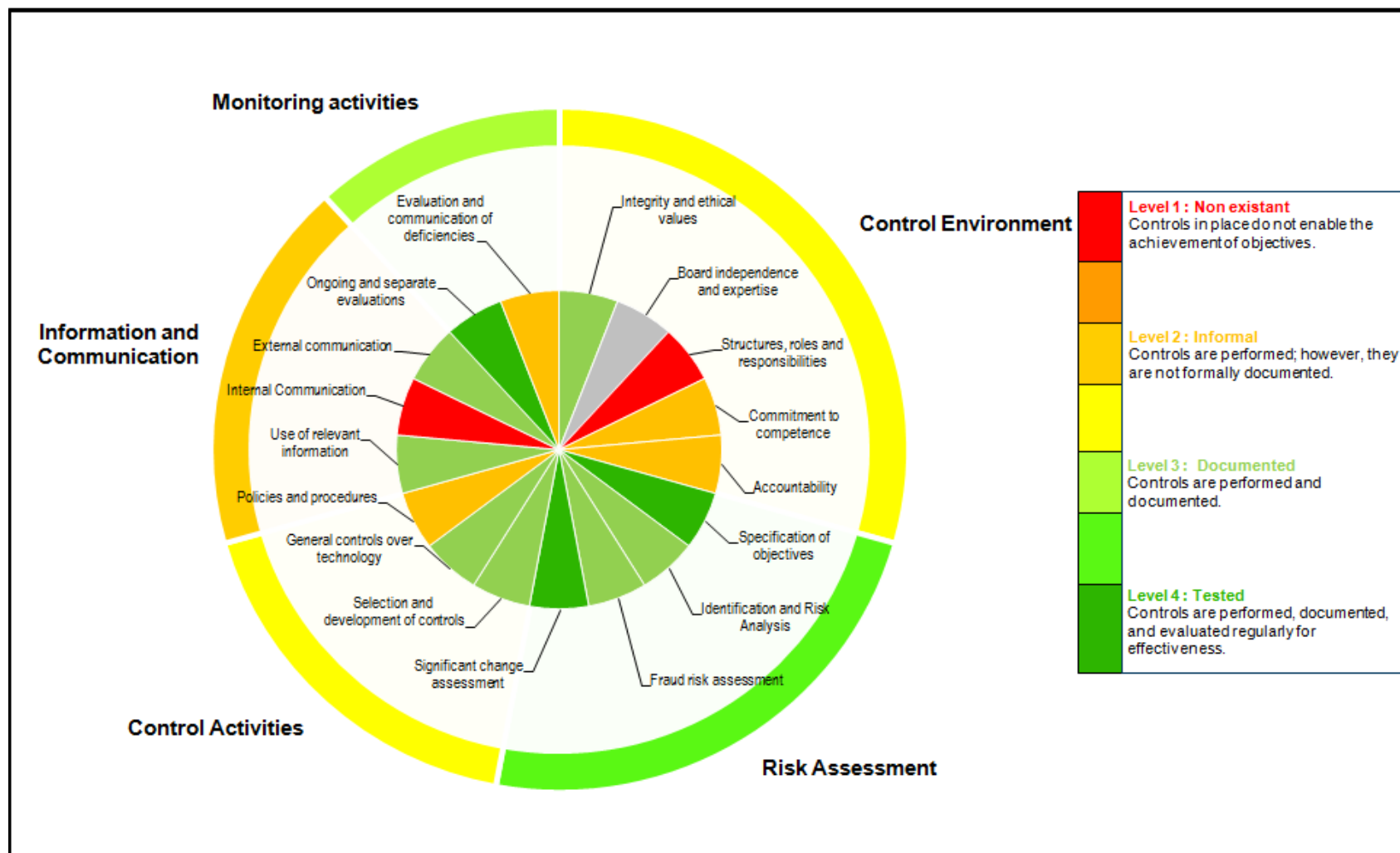


# Evaluating the implications of the Update

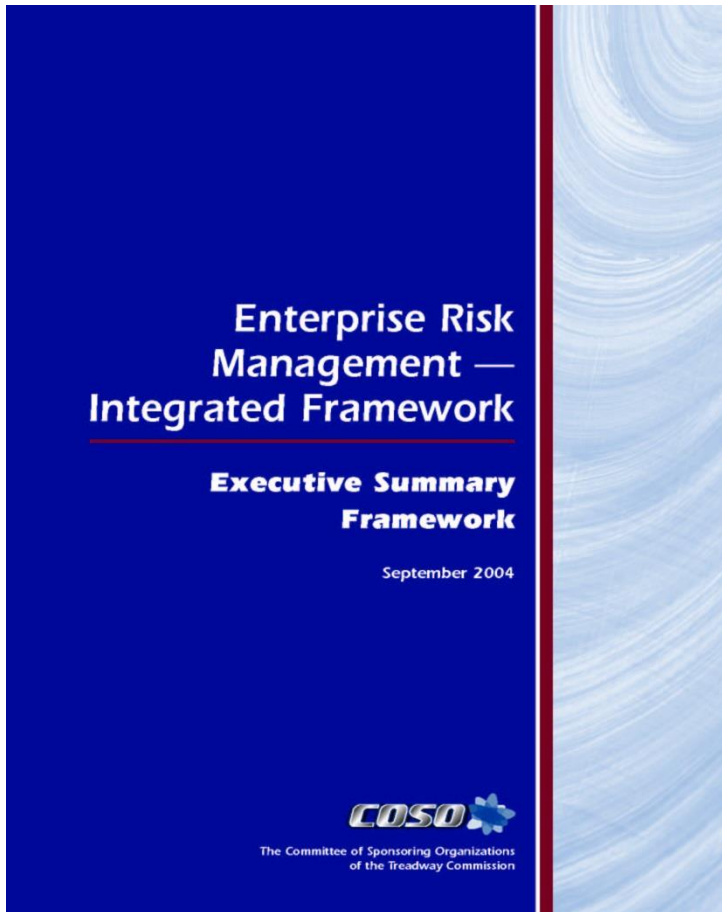
Does your entity's system of internal control over financial reporting cover all 17 principles?

- Internal control programs often focus on the Control Activities component
- Are the other components present and functioning?
- To what extent are they operating together in an integrated manner?

# Example of a flash diagnostic of the maturity of internal control in relation to the 17 principles of COSO 2013



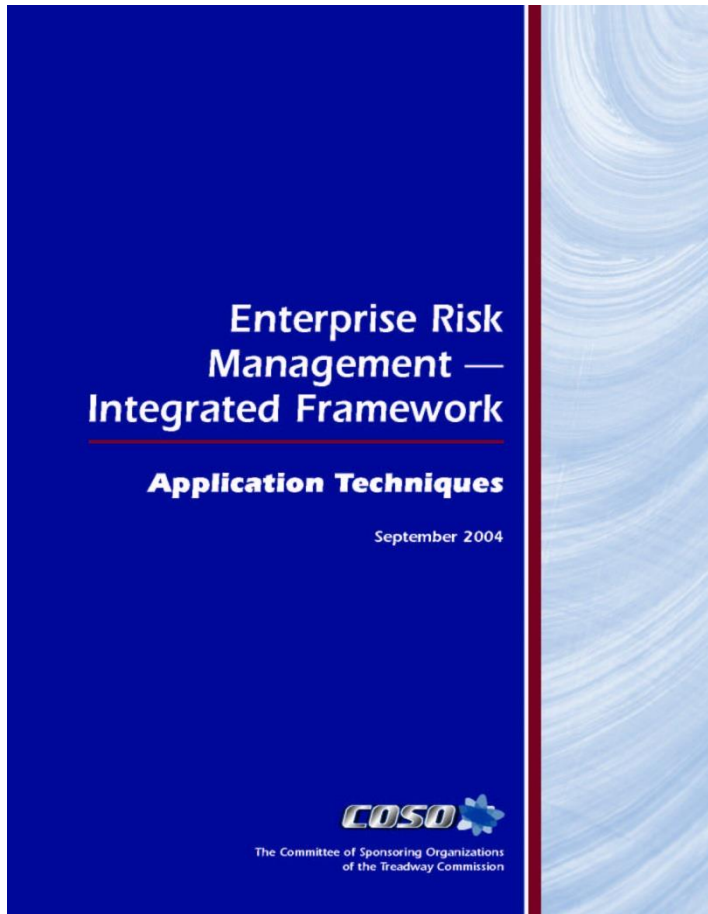
# The COSO ERM standard delineates a principles-based framework



The framework provides:

- A definition of enterprise risk management
- The critical principles and components of an effective enterprise risk management process
- Direction for organisations to use in determining how to enhance their risk management
- Criteria to determine whether their risk management is effective, and if not, what is needed

# The COSO ERM standard delineates a principles-based framework



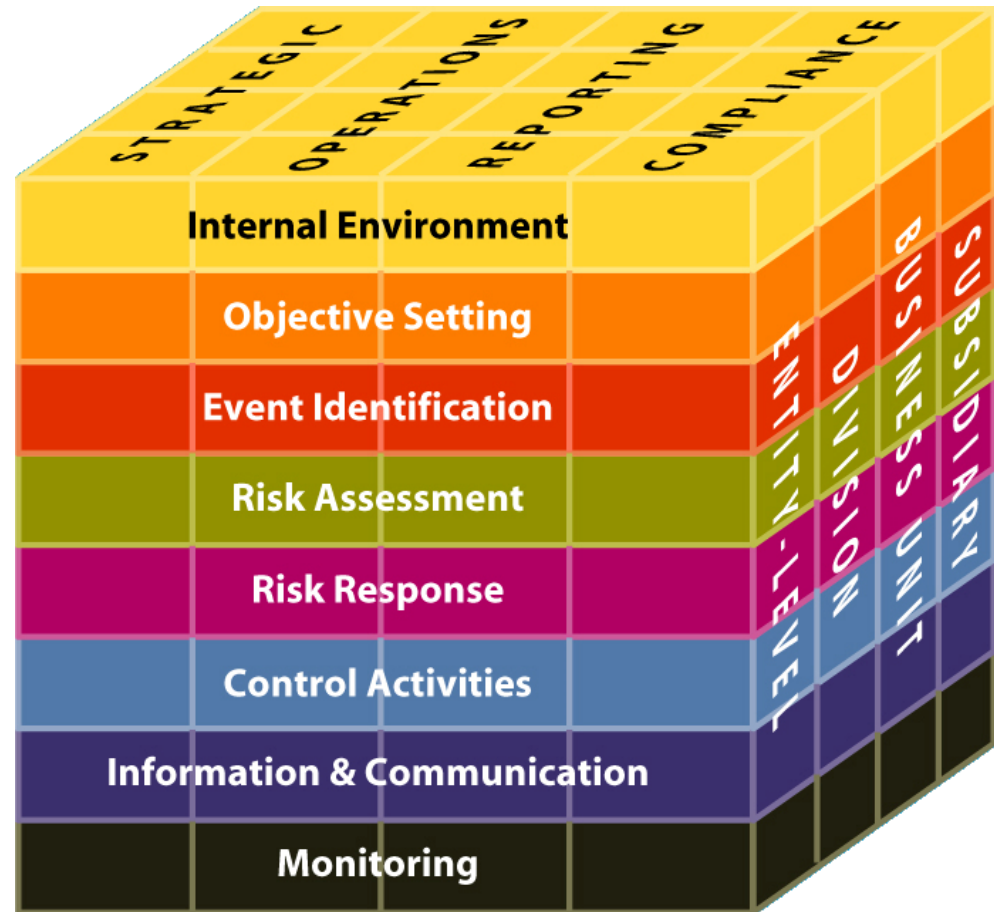
The Application Techniques framework provides:

- Illustrations of how critical principles may look within an organisation
- An overview of an implementation process
- Illustrations that consider varying entity:
  - Size
  - Strategy
  - Industry
  - Complexity



# Three foundational aspects of the COSO ERM Framework

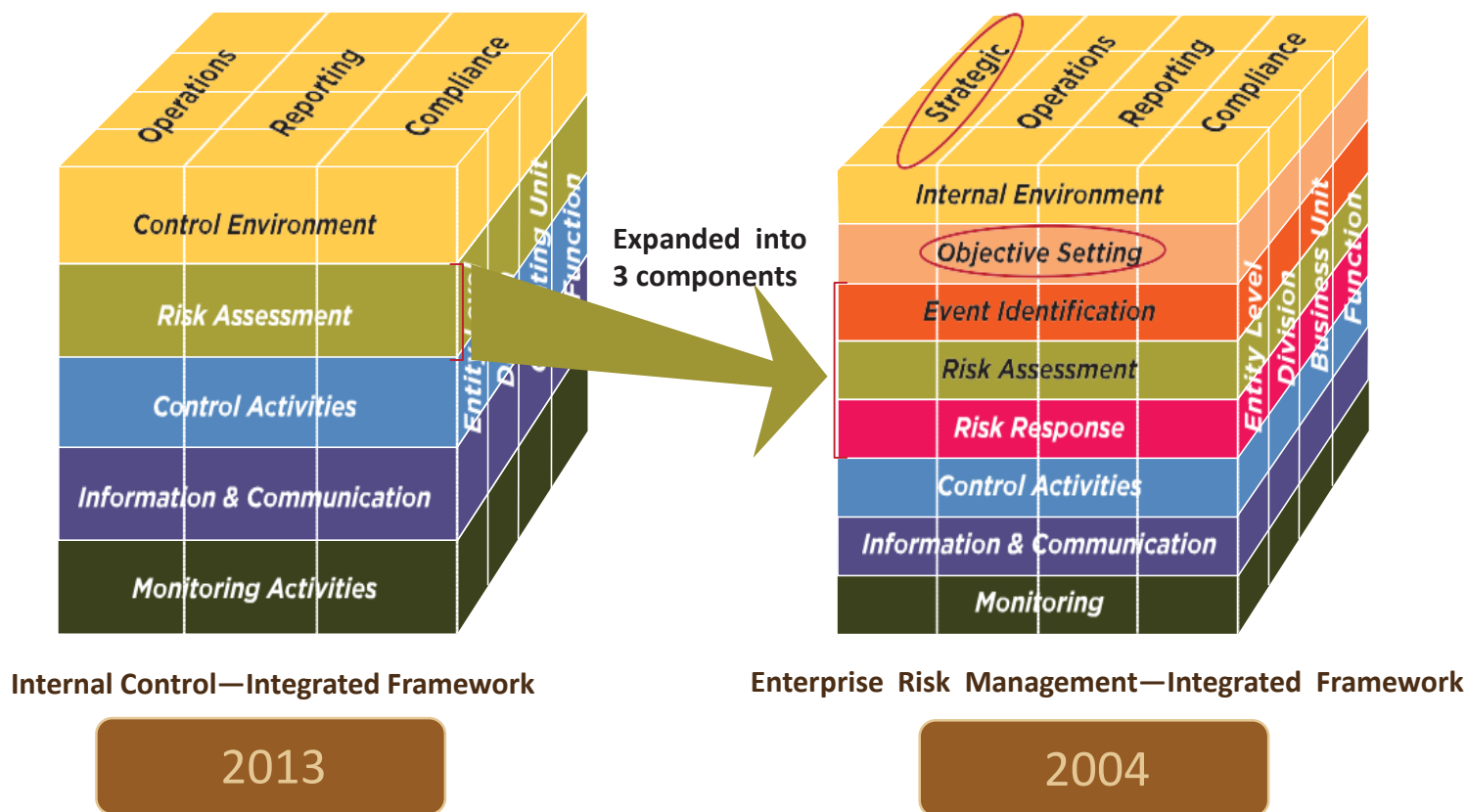
- Starts with objectives:
  - strategic
  - operations
  - reporting
  - compliance
- Applies to activities at all levels of the organisation
- Has eight interrelated components



# Comparing COSO IC 2013 to COSO ERM 2004

## Components

With the enhanced focus on risk, the ERM framework expands the internal control framework's risk assessment, creating three components: event identification, risk assessment, and risk response.



# Comparing COSO IC to COSO ERM

Enterprise risk management is broader than internal control, elaborating on internal control and focusing more directly on risk.

Internal control is an integral part of enterprise risk management, while enterprise risk management is part of the overall governance process.



# Comparing COSO IC to COSO ERM

## Risk appetite & tolerance

The ERM framework introduced the concepts of risk appetite and tolerance.

**Risk appetite** is the broad-based amount of risk an entity is willing to accept in pursuit of its mission/vision.

**Risk tolerance** is the acceptable level of variation in performance relative to achievement of objectives. In setting risk tolerance levels, management considers the relative importance of the related objectives and aligns risk tolerance with risk appetite.



# Comparing COSO IC to COSO ERM

## Portfolio View

Enterprise risk management required considering composite risks from a portfolio perspective. This concept is not contemplated in the *Internal Control – Integrated Framework*, which focuses on achievement of objectives on an individual basis. Internal control does not require that the entity develop a portfolio view.

# Why ISO ?




Link risk and performance and service delivery



Link risk and objectives



Cover all types of risks



Cover all types of activity and sectors



Input from all countries



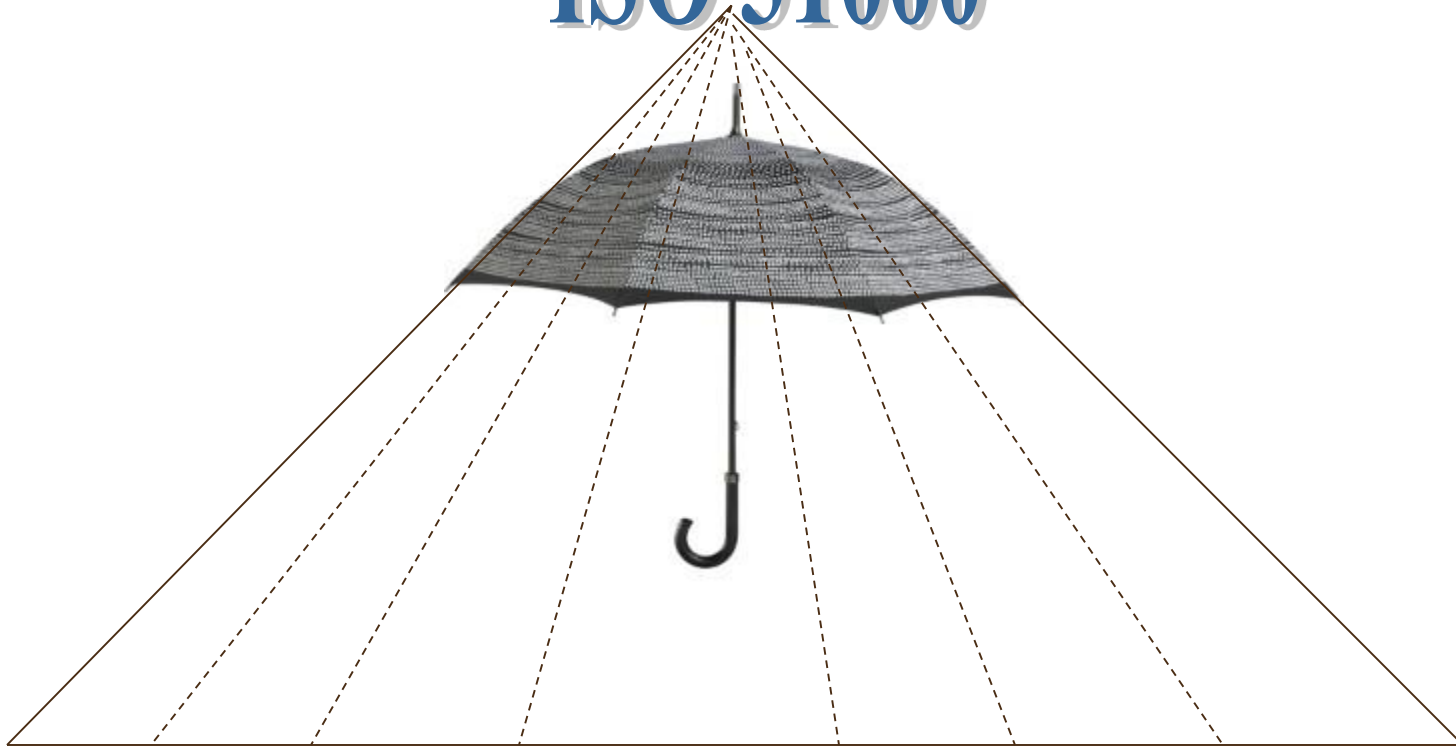
Input from all existing risk standards and guidelines



Guideline for all existing standards

# About ISO 31000

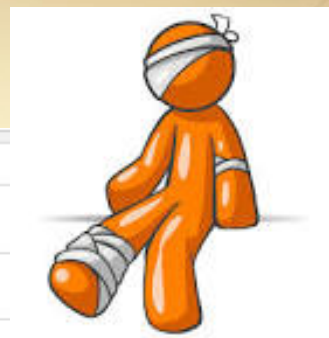
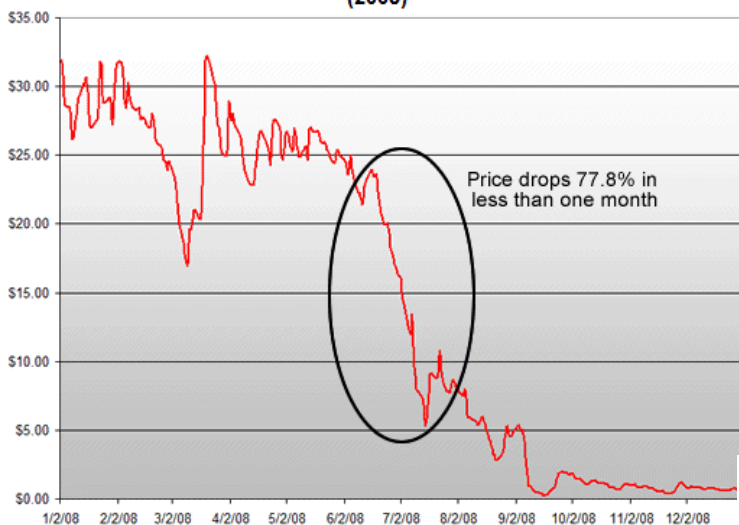
## ISO 31000



**Quality   OH&S   Finance   IT security   Project**  
**Environment   Food safety   Equipment   Supply chain**



Freddie Mac (NYSE: FMCC.OB)  
(2008)



# CHECKLIST

## FOR COMPLIANCE

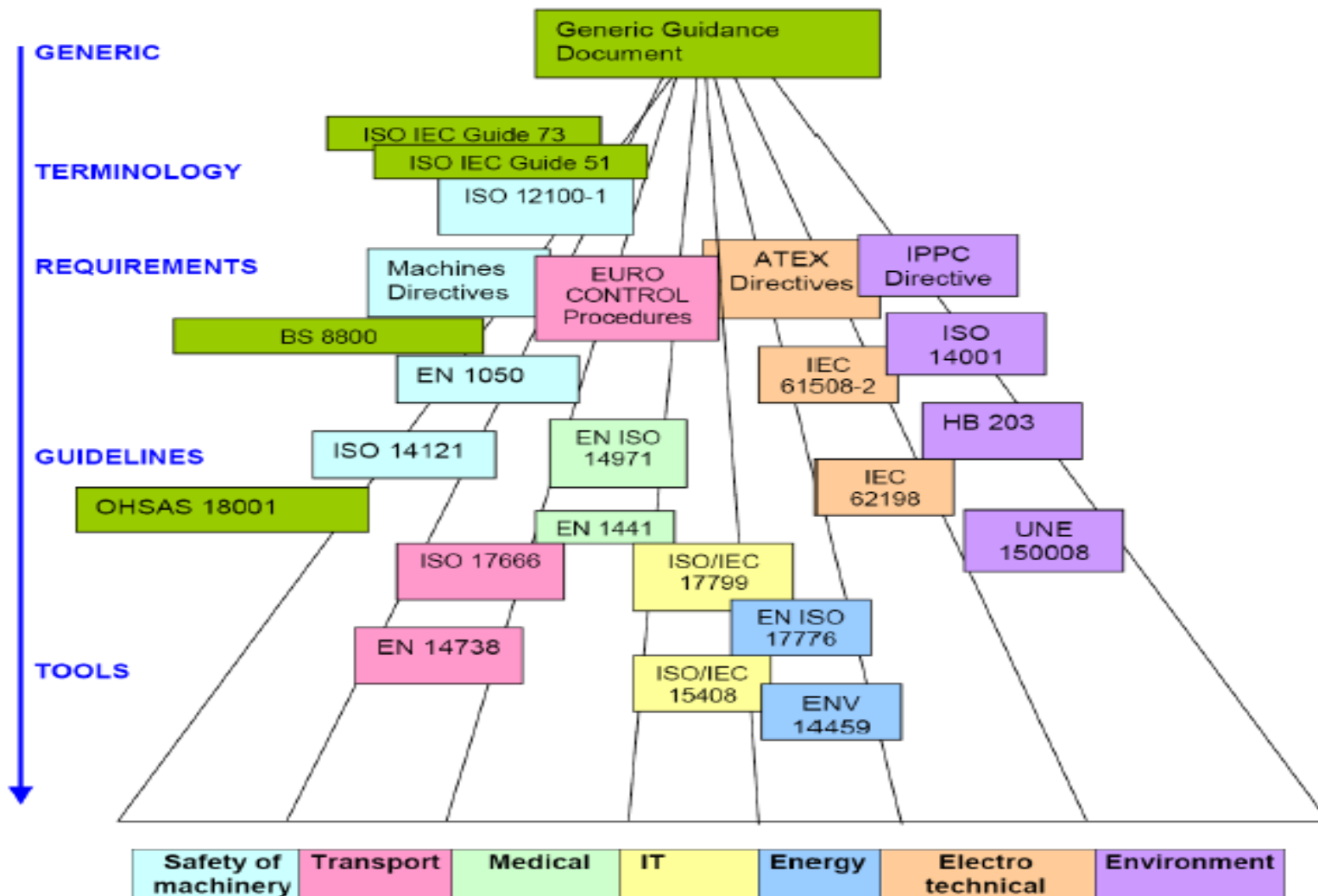


*combinations of the  
probability of an event  
and its consequences...*





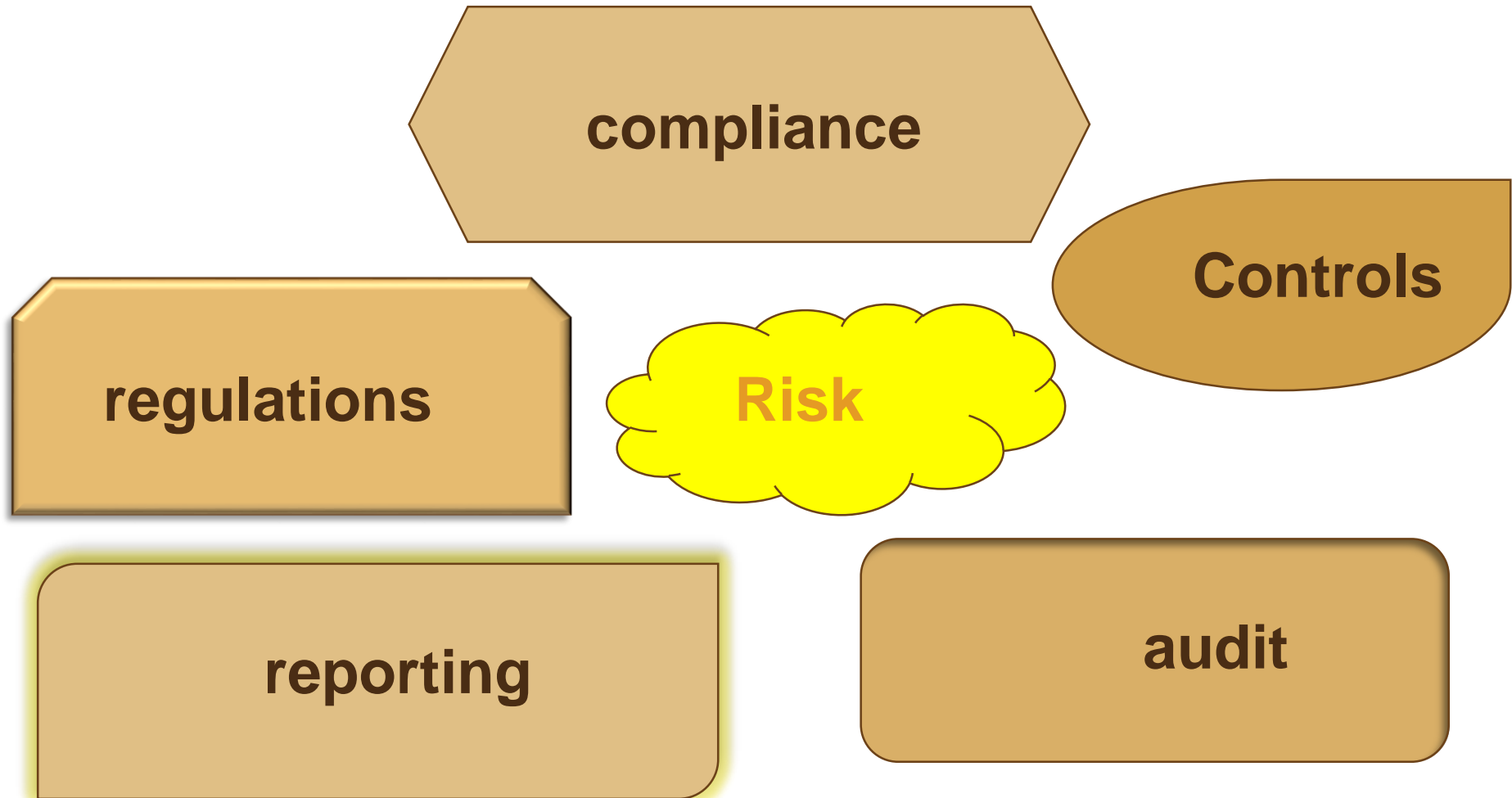
# Standards, Guidelines and Regulations



Multi-sectors documents

Risk management documents cartography (Source CEN)

# The need to move beyond a compliance & control risk management standard



# Why aren't ERM Programs More Successful?



- Most ERM Programs are built on “Governance” or “Compliance” models
  - Value: “Did we do it? Good.”
- Measures are rarely in meaningful terms
- Not a KEY role in performance management, planning, budgeting and strategy formation
- Limited in scope and focus
- Not a “day-to-day” part of decision making
- Not based on or tied to a standard or tight framework

# About ISO 31000

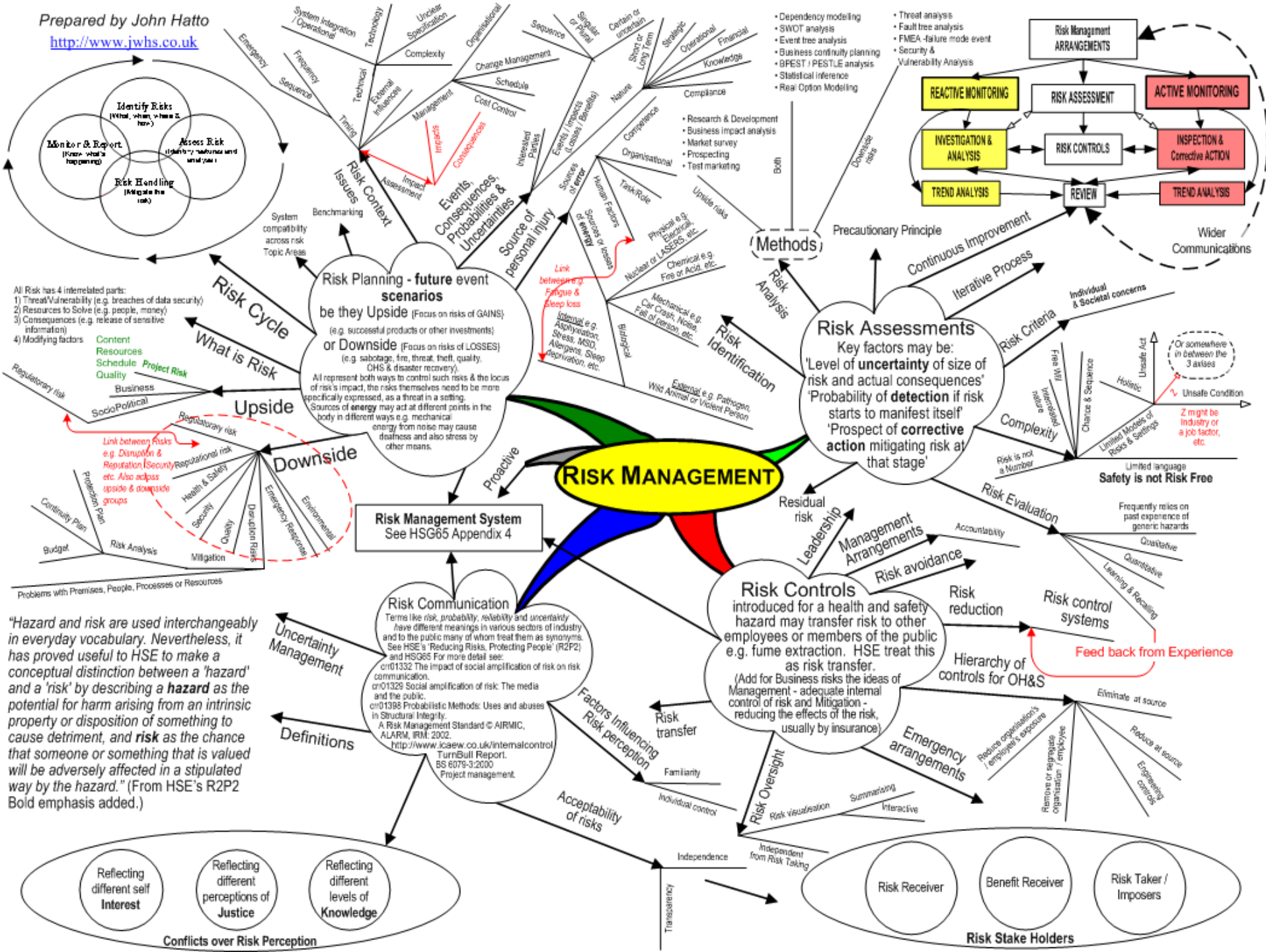
Engineer	→ risk = hazard
Scenario	→ risk = event
Manager	→ risk = uncertainty on objectives
Health	→ risk = threat (purely negative)
Finance	→ risk = return
Public sector	→ risk = discontinuity of service



Event

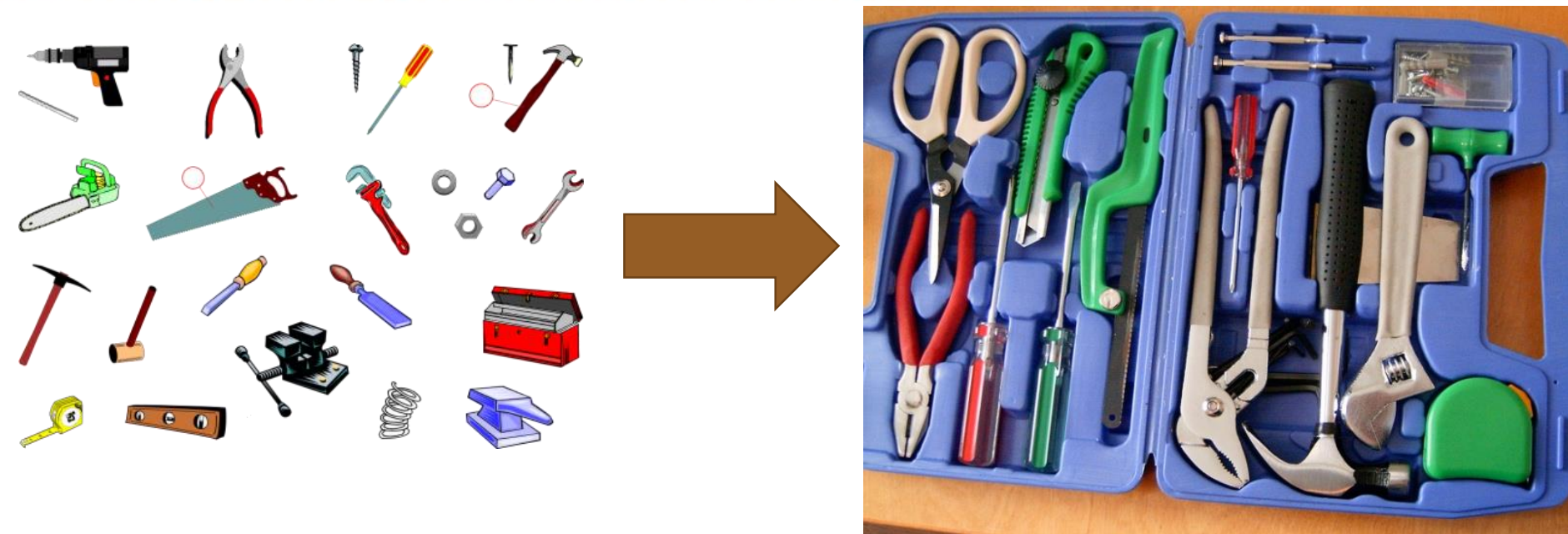
Risk management  
=  
Managing **potential  
events** ?







# RISK MANAGEMENT & ISO 31000



The combination of **governance, performance, decision-making and risk management** has become the driving force for a global approach, structured methodology leading to risk management standardization

# Existing Risk Management Standards before ISO 31000



Australia/  
New Zealand



UK



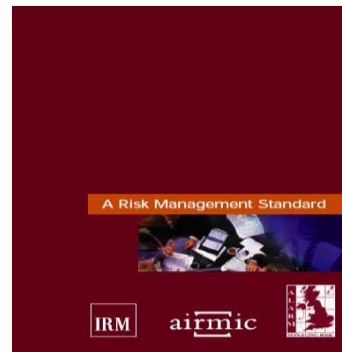
USA  
International



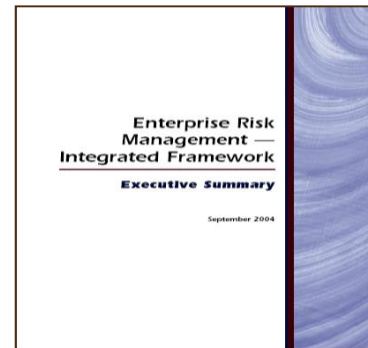
International



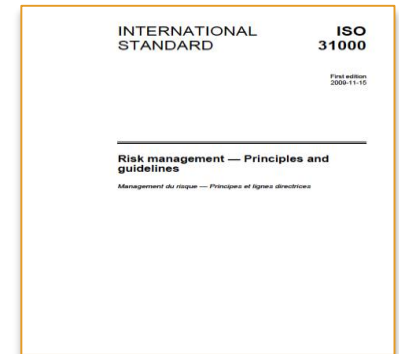
AS/NZS 4360  
1994/1999/2004/



AIRMIC/ ALARM/  
IRM 2002



COSO ERM 2004



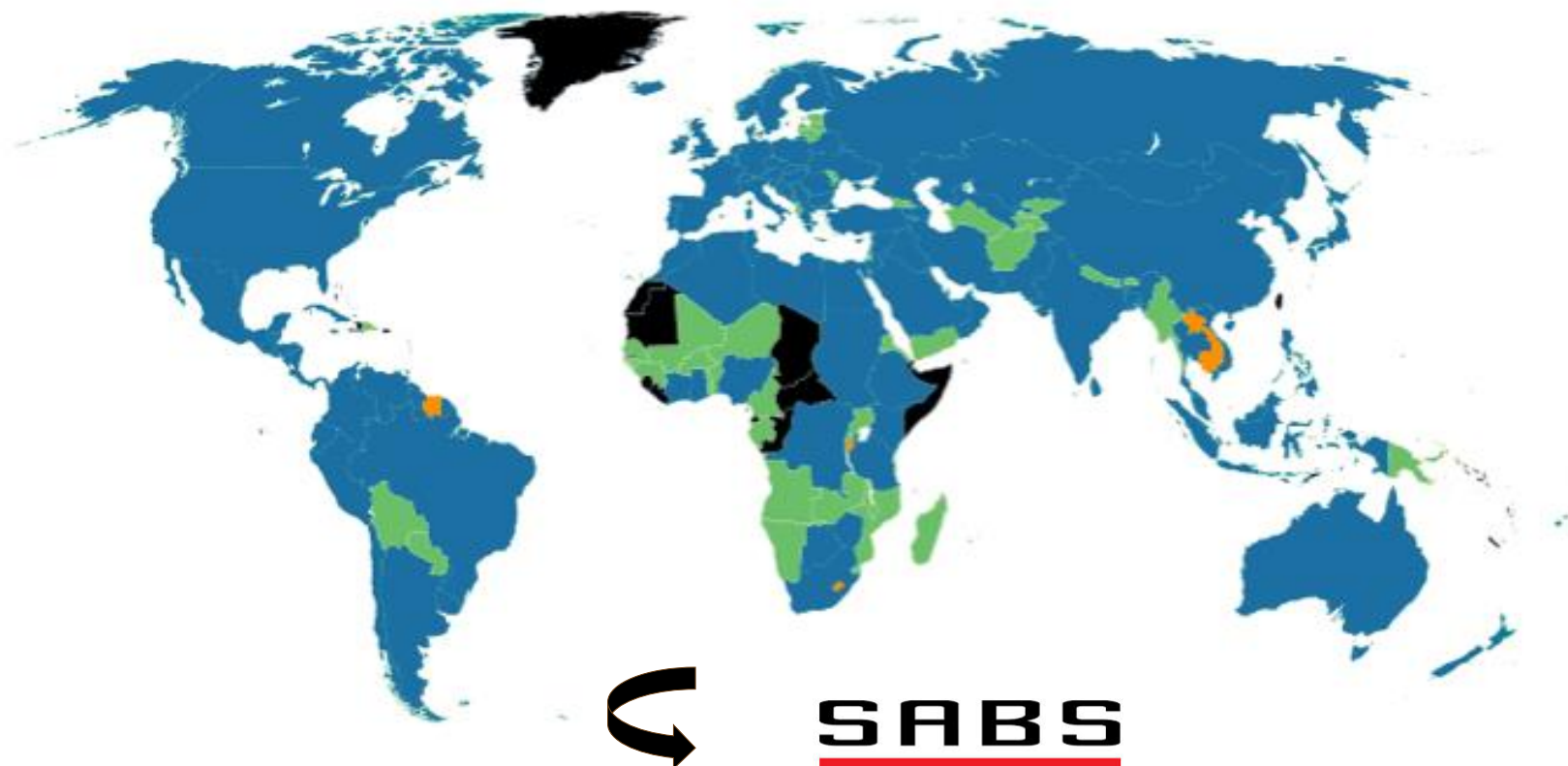
ISO 31000:2009



*Proposed in 2004*



ISO has 164 **national members** out of the **206** total countries in the world.



- Members
- Correspondent Members
- Subscriber members

*The **South African Bureau of Standards (SABS)** is a **South African** statutory body that was established in terms of the **Standards Act, 1945 (Act No. 24 of 1945)***

# Objectives of ISO 31000 SCOPE

- ✓ **All organisation:** Any sector, any activity, any size
- ✓ **All risk:** Any type of risk, + or - consequences
- ✓ **Generic guidelines:** Harmonizes processus, not practices
- ✓ **Global reference:** Harmonize RM in existing and future standards
- ✓ **Global application:** Objectives, context, structure, operations, processes, functions, projects, products, services, or assets



## Internationally-recognised reference



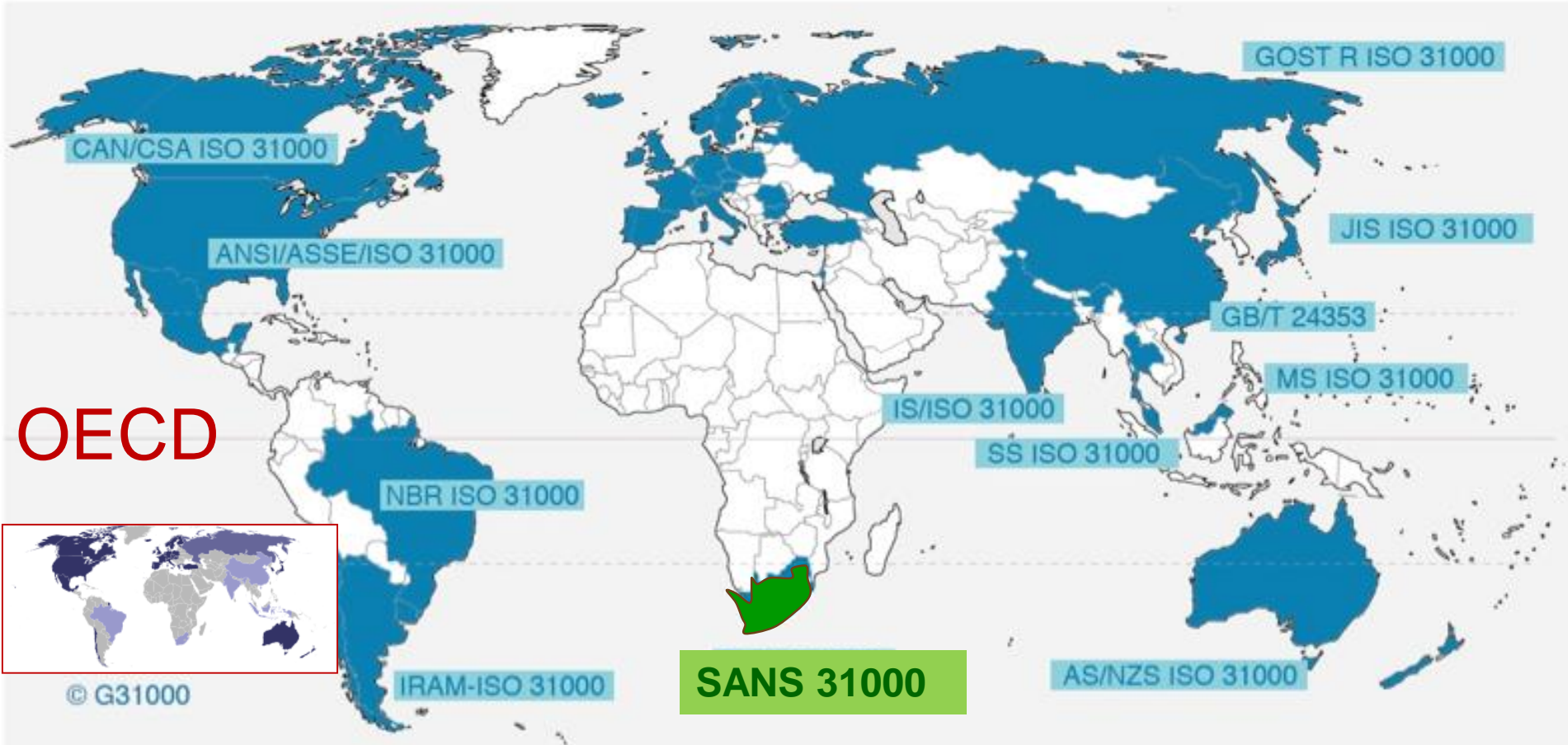
- International consensus
- single global reference for stakeholders
- wide application
- “*umbrella*” for more than 60 standards



- **ISO 31000 adopted in South Africa**



# ISO 31000 standard recognized as national risk management standard, worldwide



**ISO 31000 standard recognized as national risk management standard**

Argentina, Australia, Austria, Belarus, Bulgaria, Brazil, Canada, Chile, China, Czech Republic, Denmark, Estonia, Finland, France, Germany, India, Ireland, Israel, Italy, Japan, Latvia, Malaysia, Netherlands, New-Zealand, Norway, Poland, Portugal, Romania, Russia, Singapore, Slovak Republic, Slovenia, South-Africa, Spain, Sweden, Switzerland, Thailand, Turkey, United Kingdom, Uruguay, United States

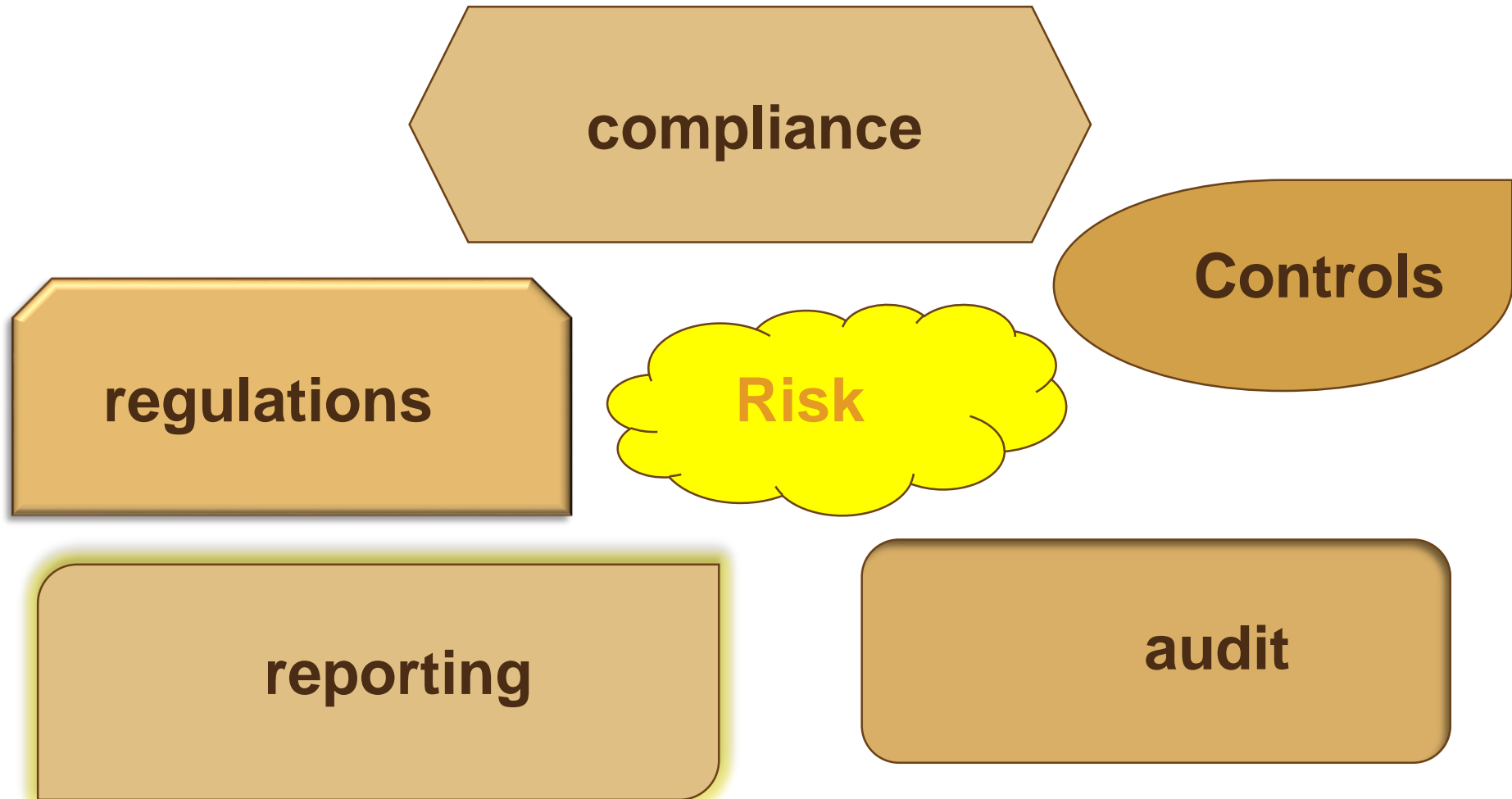
# Link between risk and objectives



*Effect of uncertainty on objectives...*

# A compliance & control risk management standard

The need to move beyond a compliance & control risk management standard



# ISO 31000, a global risk management standard

**Uncertainty**

**Performance**

compliance

audit

**Objectives**

**Risk**

insurance

**Decision-making**

controls

reporting

**Best allocation of  
resources**

*Philosophy of the ISO 31000 risk  
management standard*

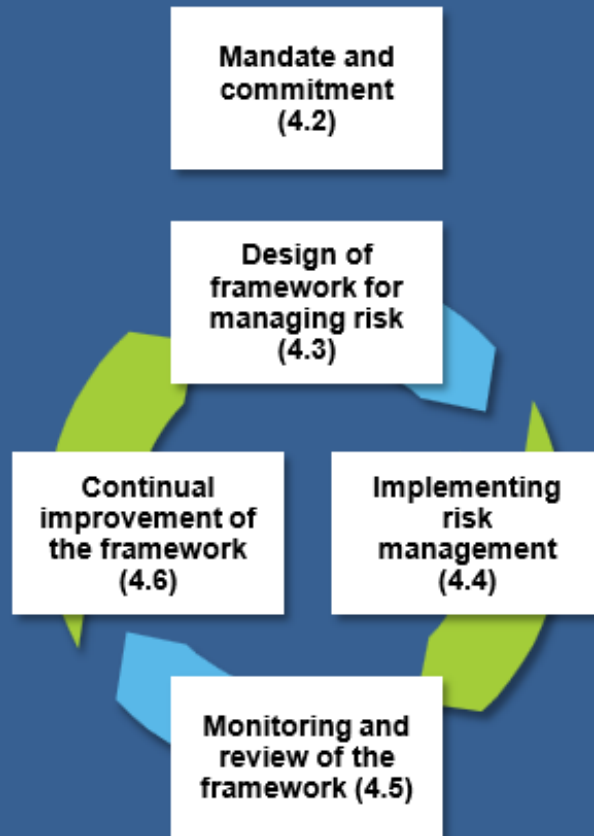


# The three pillars of ISO 31000

- a) Creates value
- b) Integral part of organizational processes
- c) Part of decision making
- d) Explicitly addresses uncertainty
- e) Systematic, structured and timely
- f) Based on the best available information
- g) Tailored
- h) Takes human and cultural factors into account
- i) Transparent and inclusive
- j) Dynamic, iterative and responsive to change
- k) Facilitates continual improvement and enhancement of the organization

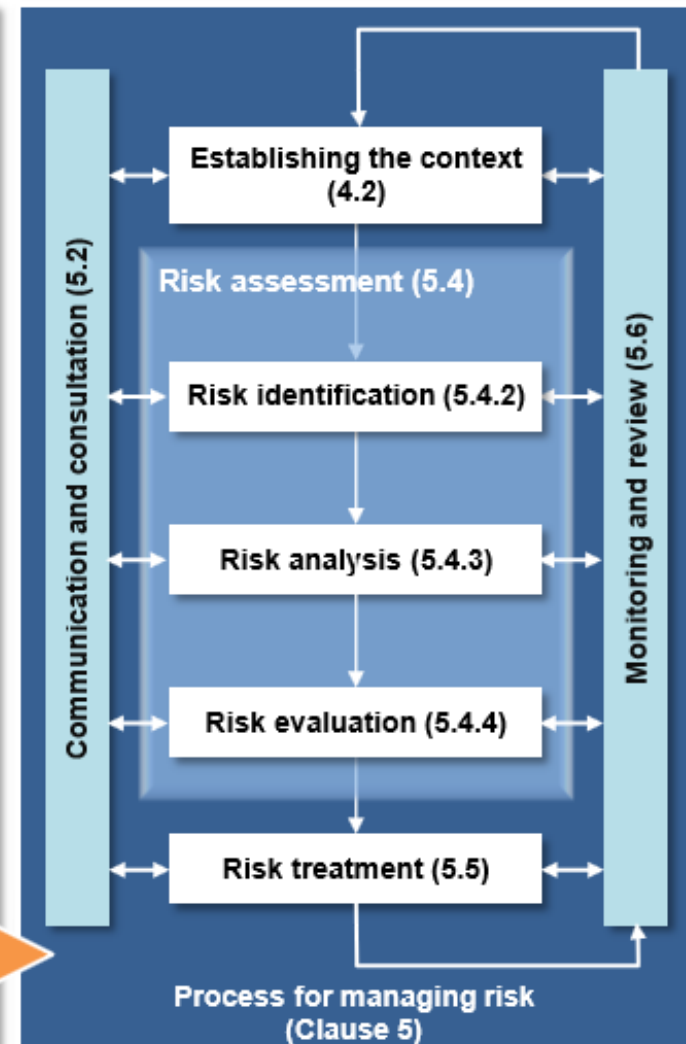
Principles for managing risk (Clause 3)

**Principles**



Framework for managing risk (Clause 4)

**Framework**



Process for managing risk (Clause 5)

**Process**



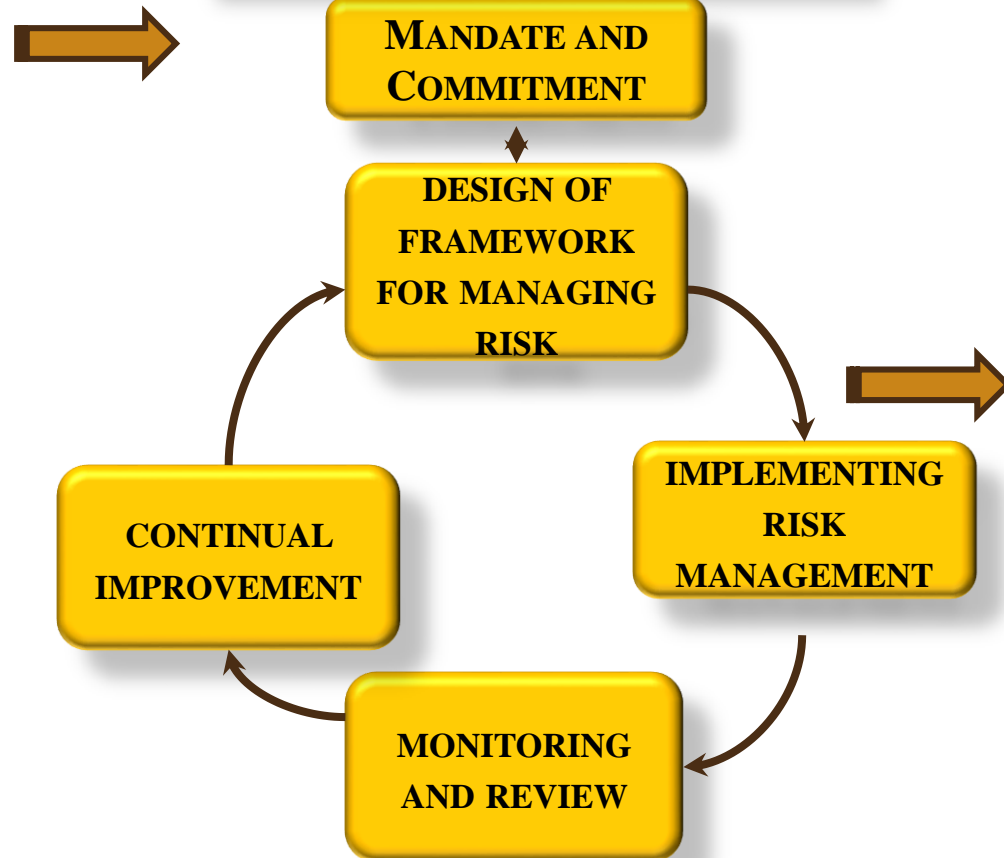
# Objectives of ISO 31000

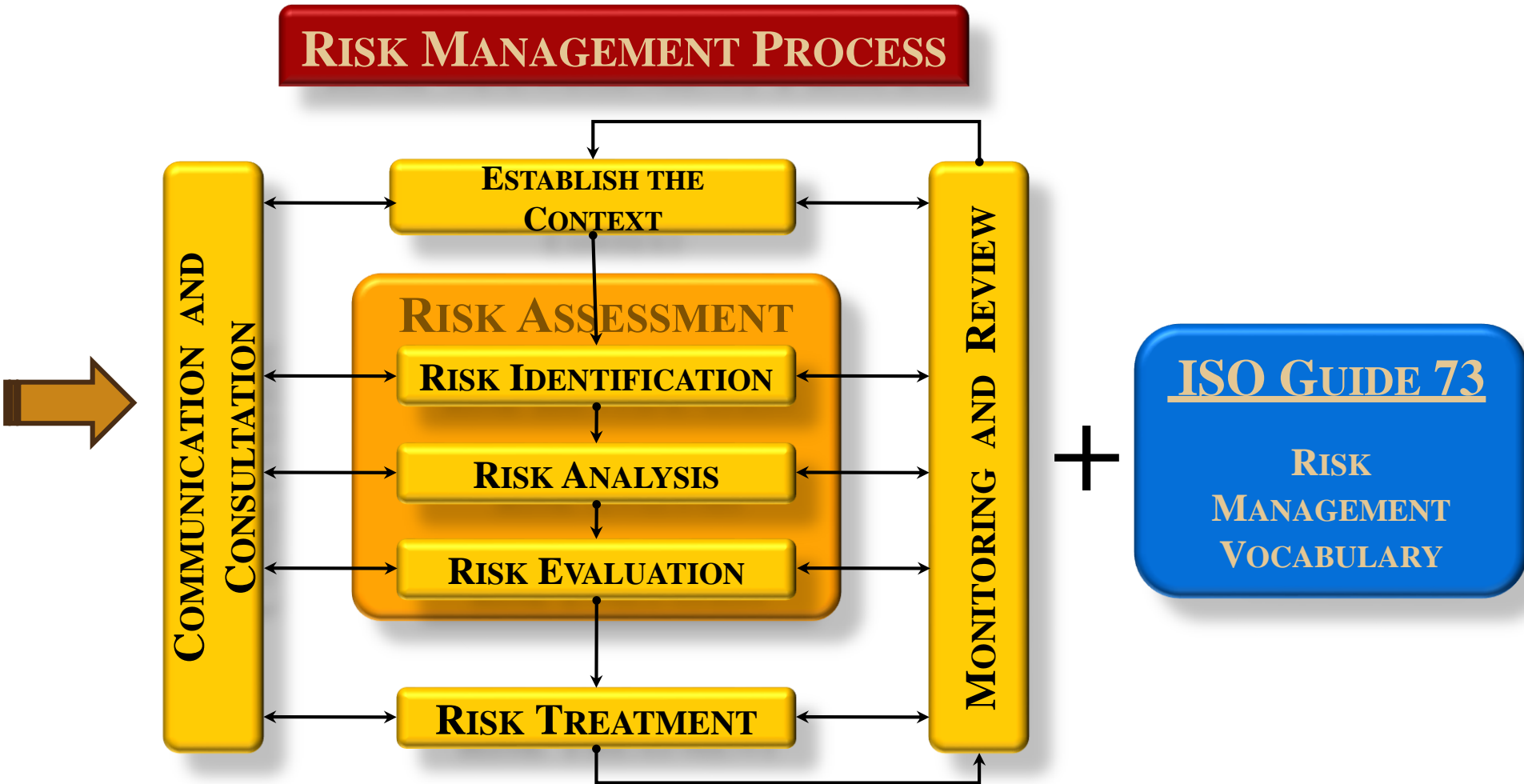
# Structure

## PRINCIPLES

- a) *Creates value*
- b) *Integral part of organizational processes*
- c) *Part of decision making*
- d) *Explicitly addresses uncertainty*
- e) *Systematic, structured and timely*
- f) *Based on the best available information*
- g) *Tailored*
- h) *Takes human and cultural factors into account*
- i) *Transparent and inclusive*
- j) *Dynamic, iterative and responsive to change*
- k) *Facilitates continual improvement and enhancement of the organization*

## FRAMEWORK







**national treasury**  
Department:  
National Treasury  
REPUBLIC OF SOUTH AFRICA

## Public Sector Risk Management Framework

Published  
1 April 2010

# SABS

ISBN 978-0-626-23641-0

**SANS 31000:2009**  
Edition 1  
**ISO 31000:2009**  
Edition 1

## SOUTH AFRICAN NATIONAL STANDARD

**Risk management — Principles and  
guidelines**

This national standard is the identical implementation of ISO 31000:2009, and is adopted with the permission of the International Organization for Standardization.

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**SANS  
31000:2009—  
Risk  
Management  
— Principles  
and  
guidelines**

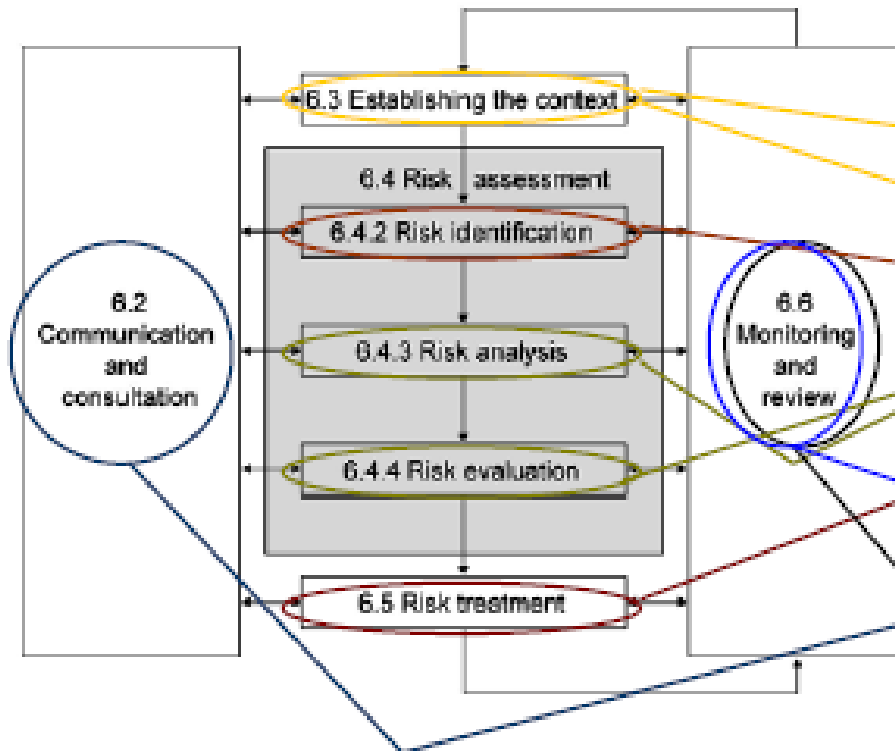
**SANS  
31010:2009—  
Risk  
Management  
— Risk  
assessment  
techniques**

**ARP  
070:2009—  
Risk  
Management  
— Vocabulary**

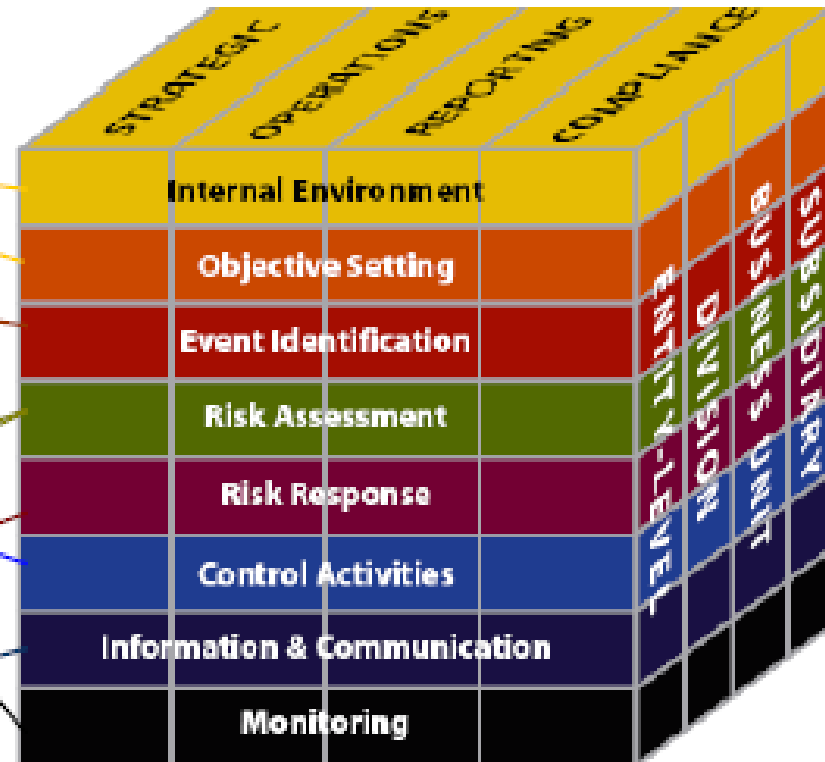
# Comparable Standards

*Essentially identical risk management processes in the two standards*

## ISO 31000



## COSO ERM 2004



Source: Aon Risk Solutions, White Paper on Risk Management Committee, 2011



## water affairs

Department:  
Water Affairs  
REPUBLIC OF SOUTH AFRICA

South African Water and Wastewater services

South African Water and Wastewater services



### REGULATORY PERFORMANCE MEASUREMENT:

Water Services Targeted RPMS Audits



WATER IS LIFE - RESPECT IT, CONSERVE

*"The Department of Water and Sanitation is implementing risk-based and incentive-based form of regulation.*

*It regulates 142 municipalities (Water Services Authorities) on risk management issues following the ISO 31000 standard following the Risk Management Framework (from National Treasury).*

*The objective is to make sure that municipalities identify and manage their risks properly in order ensure the sustainability of the water services business."*

6<sup>th</sup> August 2014

Solly Selowa  
Department of Water Affairs  
Republic of South Africa

Email : [selowas@dwa.gov.za](mailto:selowas@dwa.gov.za)





# Best Public Sector Organization



## G31000 Global Awards 2014



Western Cape  
Government

BETTER TOGETHER.

- Deployment of ERM in all department
- WCG ISO 31000 Maturity Tool Capability
- Training of 11 members of the ERM staff
- Training of 7 approved CT31000 trainers
- First female Certified ISO31000 Lead Trainer in Africa - Sanobia Abrahams
- Further deployment at municipalities 2014/2015



# Questions?



## USEFUL LINKS

- **ISO 31000 GLOBAL SURVEY 2011 :**

[http://G31000.org/wp-content/uploads/2014/04/Global Survey ISO 31000 English.pdf](http://G31000.org/wp-content/uploads/2014/04/Global_Survey_ISO_31000_English.pdf)

- **ISO 31000 INTERNATIONAL CONFERENCE :**

<http://conference2014.G31000.org/>

- **LINKEDIN GROUP on ISO 31000 :**

<http://www.linkedin.com/groups?mostPopular=&gid=1834592>

- **About ISO 31000 – official link:**

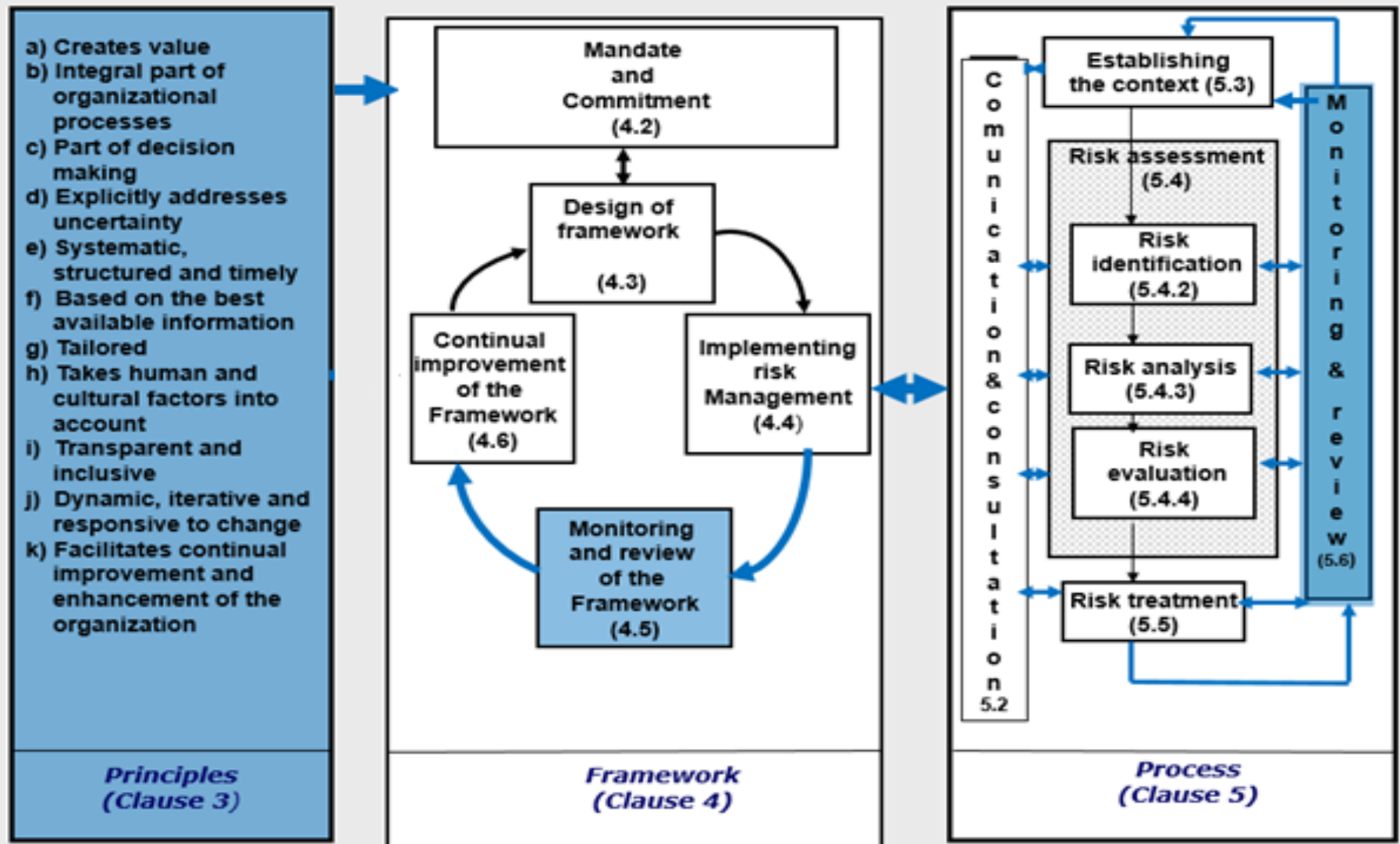
[http://www.iso.org/iso/catalogue\\_detail?csnumber=43170](http://www.iso.org/iso/catalogue_detail?csnumber=43170)

# Annexes



- ✓ Exploring the role of internal audit in respect of ISO 31000
- ✓ SANS 31000:2009– Risk Management – Principles and guidelines
- ✓ SANS 31010:2010– Risk Management – Risk assessment techniques
- ✓ ARP 070:2009– Risk Management – Vocabulary
- ✓ Statistics of growth per country in the world
- ✓ Statistics of growth per country in Africa

# Exploring the role of internal audit in respect of ISO 31000



ISO 31000:2009 Figure 1 – Relationship between the principles, framework and process



**SANS 31000:2009– Risk Management – Principles and guidelines**

ISBN 978-0-626-23641-0

**SANS 31000:2009**

Edition 1

**ISO 31000:2009**

Edition 1

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**NATIONAL FOREWORD :**

*This South African standard was approved by National Committee SABS TC 178, Risk management, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement  
This SANS document was published in December 2009*

**PREVIEW :**

<http://www.store.sabs.co.za/getsabspdf.php?hash=56cc0611d0506b53d466f0c2be56fd8bf2c0ba55&preview=yes>

**PURCHASE :**

SANS 31000 – 11 December 2009 - R353 (PDF copy SABS)

<http://www.store.sabs.co.za/sans-31000-2009-ed-1-00-223995>

**ISBN 978-0-626-23641-0**

ISBN 978-0-626-23645-8

**SANS 31010:2010**  
Edition 1  
**IEC/ISO 31010:2009**  
Edition 1

### SOUTH AFRICAN NATIONAL STANDARD

**Risk management — Risk assessment techniques**

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**ISBN 978-0-626-23645-8**

ISBN 978-0-626-23640-3

**ARP 070:2009**  
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**ISO GUIDE 73:2009**  
Edition 1

### SABS STANDARDS DIVISION

Recommended practice

### Risk management — Vocabulary

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This document does not have the status of a South African National Standard.

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*This document was published in December 2009*  
*This document supersedes ARP 070:2007 (edition 1)*

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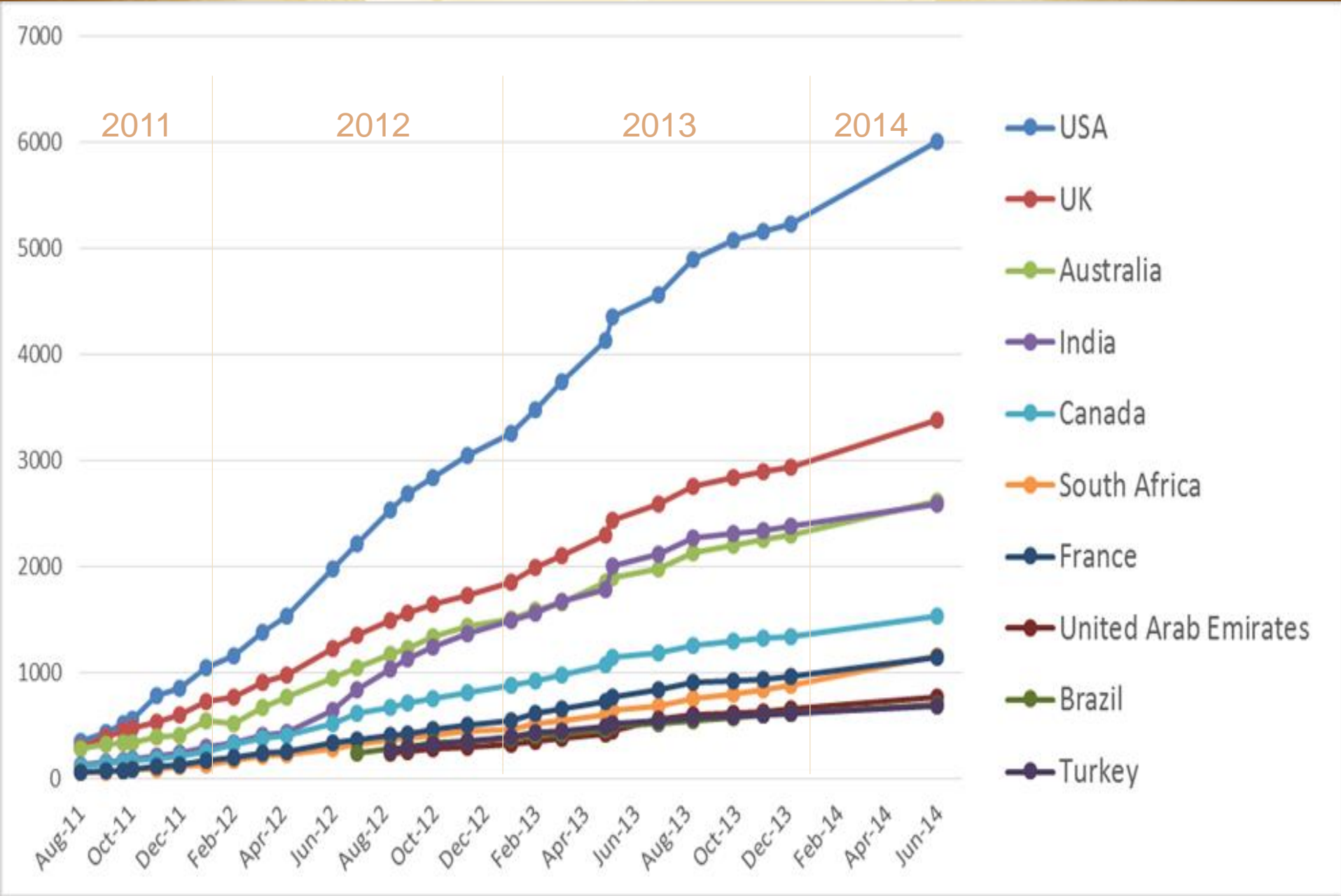
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