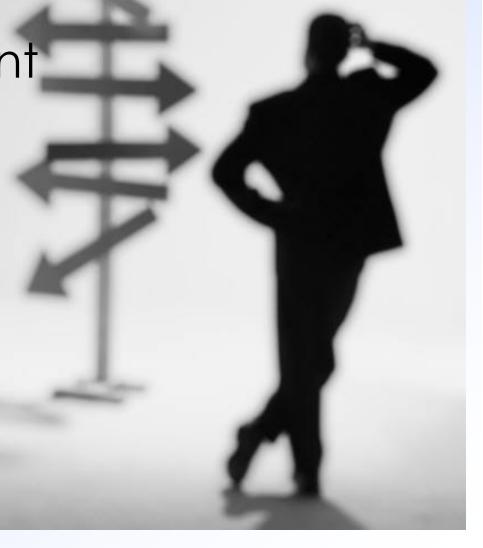


Risk Management Basics - ISO 31000 Standard

- Risk Management Basics
- 2. ISO 31000 Risk Management Principles and Guidelines



Risk Management Basics

Organizational objectives are influenced by internal and external factors which create uncertainty in achieving those objectives. The effect of this uncertainty is "risk" to the organization's objectives.

Unlike <u>Risk Elimination</u> (approach of military and law enforcement) which seeks to remove all risk; <u>Risk Management</u> is the coordinated activities to direct and control an organization with regard to risk.

Risk Management <u>allows for multiple risk responses</u> dependent upon evaluation and analysis of risk.

RISK = Negative IMPACT to objectives X LIKELIHOOD of occurrence.

Risk Management Basics

Risk Responses:

- MITIGATE corrective action to eliminate or reduce IMPACT or LIKELIHOOD
- AVOID Cease activity to eliminate risk
- 3. TRANSFER Shift IMPACT to another entity
- 4. ACCEPT No corrective action.
 Document acceptance decision and monitor



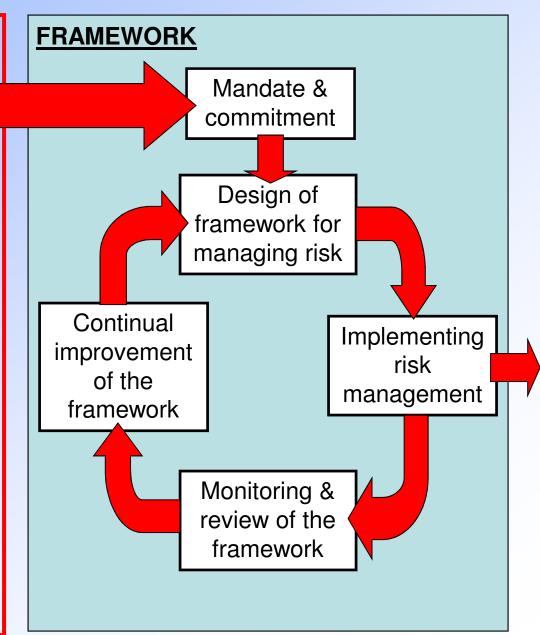
ISO 31000: Risk management — Principles and guidelines

- Published in 2009, to provide "principles & generic guidelines on risk management"
- "...can be applied to any type of risk, whatever its nature, whether having positive or negative consequences"
- "...not intended to promote uniformity of risk management across organizations. The design and implementation of risk management plans and frameworks will need to take into account the varying needs of a specific organization, its particular objectives, context, structure, operations, processes,.."
- "...not intended for the purpose of certification"

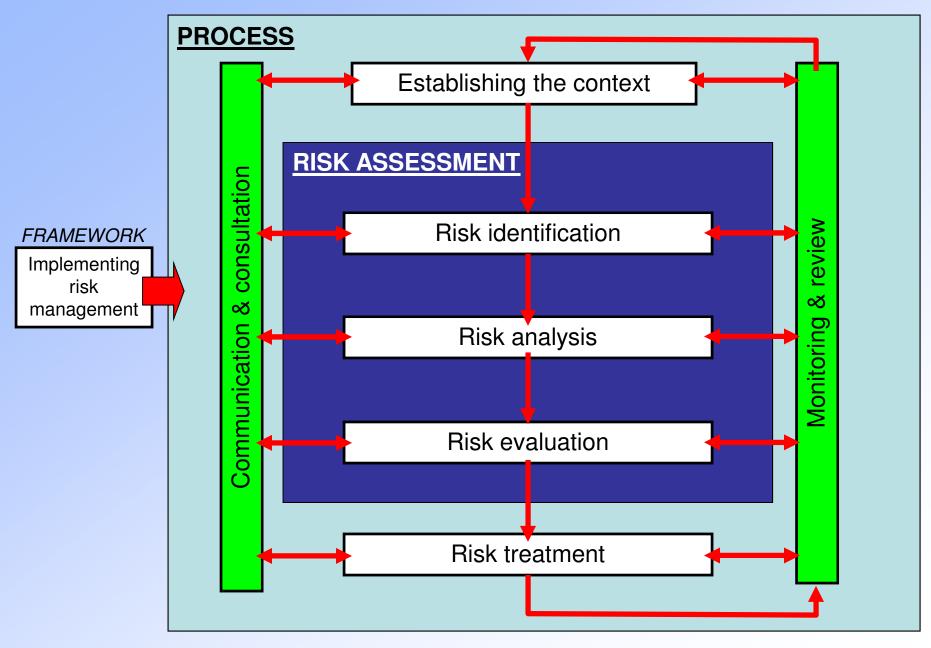
ISO 31000: Principles, Framework & Process

PRINCIPLES

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



ISO 31000: Principles, Framework & Process



Risk Management: Establish the context

External context

- Legal, Regulatory, Financial
- International, national, regional or local
- Relationships with, perceptions and values of external stakeholders

Internal context

- Organizational objectives
- Project, process, or activity objectives
- Policy, standards, guidelines and models adopted by the organization
- Contractual relationships

Risk Management process context

- Objectives, scope, responsibilities, methods
- Defining risk criteria measures, tolerance levels, views of stakeholders

ISO 31000: Risk Identification

- Process of finding, recognizing and describing risks
- Comprehensive list of risks based on those events that might create, enhance, prevent, degrade, accelerate or delay the achievement of objectives.
- Identify the risks associated with not pursuing an opportunity
- A risk that is not identified at this stage will not be included in further analysis
- Identification should include risks whether or not their source is under the control of the organization

ISO 31000: Risk Analysis

- Process to comprehend the nature of risk and to determine the level of risk
- "Risk analysis involves consideration of the <u>causes and sources of risk</u>, their positive and negative <u>consequences</u>, and the <u>likelihood that those</u> <u>consequences can occur</u>."
- Provides the basis for risk evaluation and decisions about risk treatment
- Risk analysis includes risk estimation

Risk Analysis

Risk Classifications:

- essential risks,
- risks to be monitored
- risks to be observed

Impact scale:

- very low (<\$1k)
- low (< \$5k)
- medium (< \$25k)
- high (< \$100k)
- very high (> \$100K)

Likelihood/scale:

- more than 10 years
- 5 to 10 years (> 0.1)
- 3 to 5 years (> 0.2)
- 2 to 3 years (> 0,33)
- less than 2 years (> 0.5)



ISO 31000: Risk Evaluation

- The purpose of risk evaluation is to assist in <u>making</u> <u>decisions</u>, based on the outcomes of risk analysis, about which risks need <u>treatment</u> and the <u>priority for</u> <u>treatment</u> implementation
- Decisions should take account of the wider context of the risk and include consideration of the tolerance of the risks borne by parties other than the organization that benefits from the risk
- Decisions should be made in accordance with legal, regulatory and other requirements
- In some circumstances, the risk evaluation can lead to a decision to undertake further analysis
- The risk evaluation can also lead to a decision not to treat the risk in any way other than maintaining existing controls

ISO 31000: Risk Evaluation

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ISO 31000: Risk Treatment

Risk treatment involves selecting one or more options for modifying risks, and implementing those options.

Risk treatment options are not necessarily mutually exclusive. The options can include the following:

TRANSFER

 Sharing the risk with another party or parties (including contracts and risk financing)

AVOID

- Avoiding the risk by deciding not to start or continue with the activity that gives rise to the risk
- Removing the risk source

MITIGATE

- Changing the likelihood
- Changing the consequences (impact)

ACCEPT

- Retaining the risk by informed decision
- Taking or increasing the risk in order to pursue an opportunity

ISO 31000: Risk Treatment

- Selecting the most appropriate risk treatment option involves <u>balancing the costs and efforts of</u> <u>implementation against the benefits derived</u>, with regard to legal, regulatory, and other requirements such as social responsibility and the protection of the natural environment.
- A number of treatment options can be considered and applied either individually or in combination.
- Risk treatment itself can introduce risks. A significant risk can be the failure or ineffectiveness of the risk treatment measures. Monitoring needs to be an integral part of the risk treatment plan to give assurance that the measures remain effective.

ISO 31000: Monitoring & Review

- An integral part of the risk management process involving <u>regular checking or</u> <u>surveillance</u>
- Ensure controls are effective & efficient
- Detect <u>change in external or internal context</u>
- Analysis, lessons learned, continuous improvement

Identify emerging risks

