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Risk Management Standards: Towards a contemporary, organisation-wide management approach

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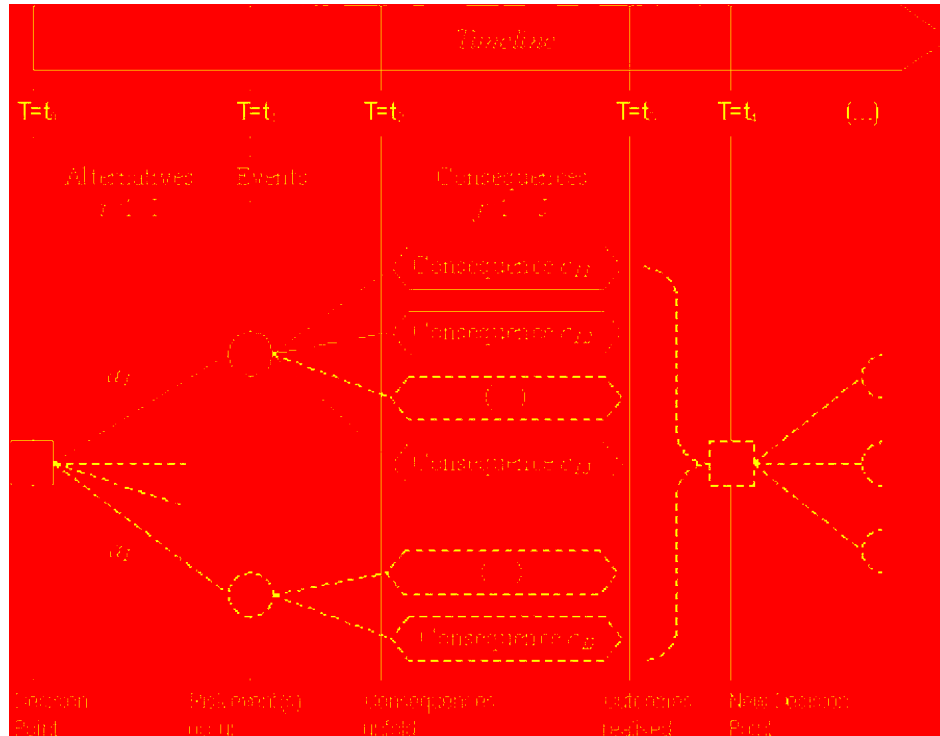
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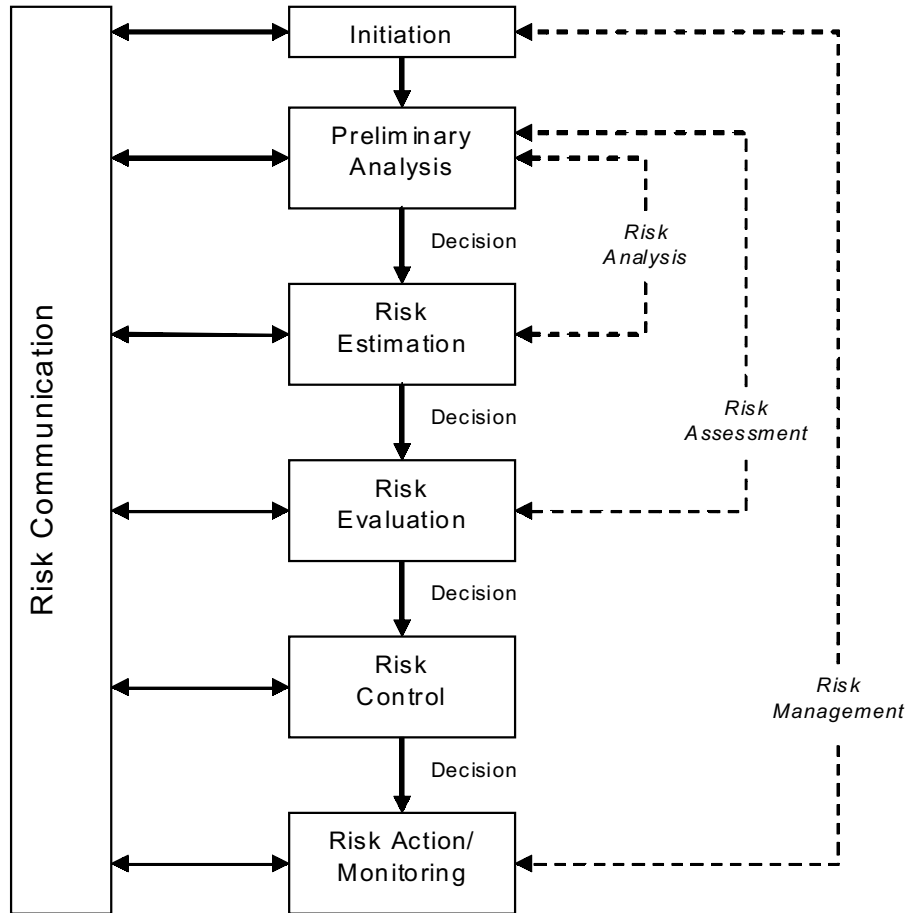
Figure 1
A Timeline View of Risk Management



For simplicity of illustration we are presenting all the time points as discrete and sequential; however, it is easily seen that actual risk management situations and time sequences may be significantly more complex: For instance, decision makers may be facing multiple decision points between t_0 and t_1 , with seemingly unrelated choices, but correlated outcomes; true events may actually correspond to chains of events, and consequences may continue to unfold even after a new decision point presents itself. Similarly, an alternative may infer a risk management ‘strategy’ that includes a set consecutive choices and events, each based and dependent on the (final) outcome(s) of the previous choice, as is frequently seen in sophisticated decision trees. However, we used this simplified version to show a procedural view of risk management which, as we support in this paper, lends itself to management as a generic managerial approach.

All the same, it is important to note that in risk management, especially as practiced in finance and insurance, decision making takes place in advance of events and without the ability to revise this alternative once a risk event occurs – this option, when available, points to crisis management; the alternative chosen initially is equivalent to a risk management strategy and the decision maker simply awaits the future to unfold, hopefully in his favour (unless, of course, the initial decision is part of a more complex strategy anticipating multiple events before the final outcomes are rendered).

Figure 2
The CAN/CSA-Q850-97 Risk Management Process [Adapted from CSA 1997]



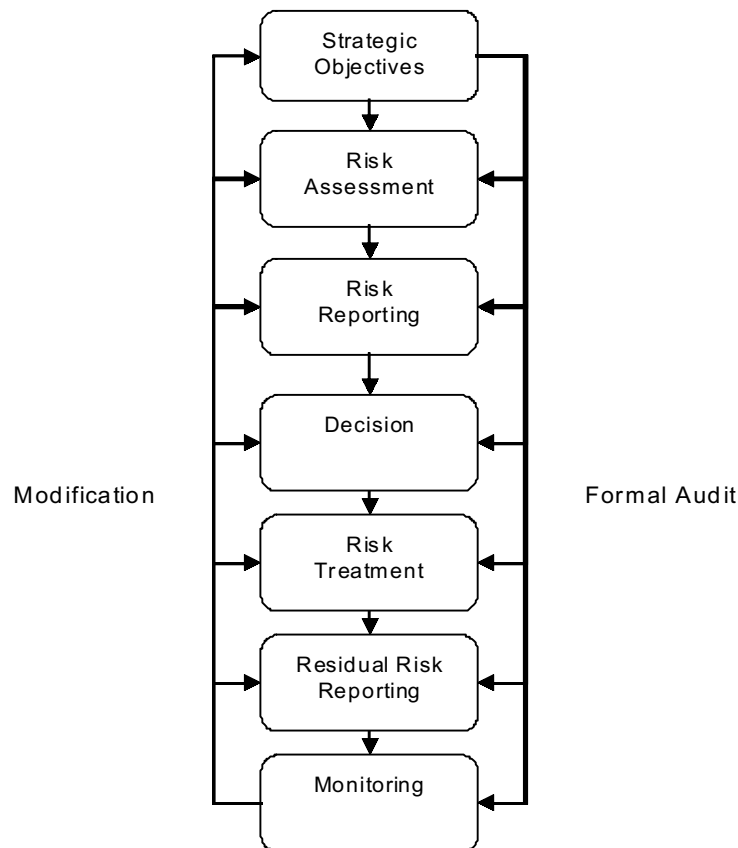
down or bottom up) is more likely to be achieved via aggregation paths: either by consolidating multiple risks (bottom-up) or by disaggregating them (top-down) and repeating the process each time. In any case, the communication route(s) ensure that risk management retains its organization-wide perspective.

2.2 AIRMIC / IRM / ALARM / FERMA : 2002

This standard considers risk management as a core organisational strategy which should also take a functional form at the tactical and operational levels. Risk events may have an upside and a downside and hence, the context or risk is neutral can be part of forward-looking positive strategies, instead of strategies that are mostly defensive against the worst. This top-down perspective subsequently requires that an organisation should be (re-)structured accordingly and maintain a multi-echelon view of risk(s); it also requires, by definition, top-management and stakeholder involvement in the risk management process.

Procedurally, the risk management step-wise approach is illustrated in Figure 3. Clockwise from top, each step's implementation and success is to be assisted or verified by formal audit processes of the organisation; similarly, each step's scope and objectives are subject to modification according to feedback loops from risk monitoring or intermediate steps.

Figure 3
AIRMIC/IRM /ALARM 's Risk Management Process



According to the standard's description, the most important decision point takes place after Risk Assessment, which captures, sequentially and iteratively, Risk Analysis and Risk Evaluation. The all important decision point is a equivalent to a milestone where the decision-maker decides on the importance of the risk(s) and selects the ways with which to treat the risks in question.

In addition to the strategic objectives setting the scene for the remainder of the risk management process as seen in Figure 3, the top-down approach is also evident in the standard's description of "Risk Analysis" (part of the "Risk Assessment" step). Organizational risk exposure is identified at the top organizational level in relation, mostly, to its environment and how that affects

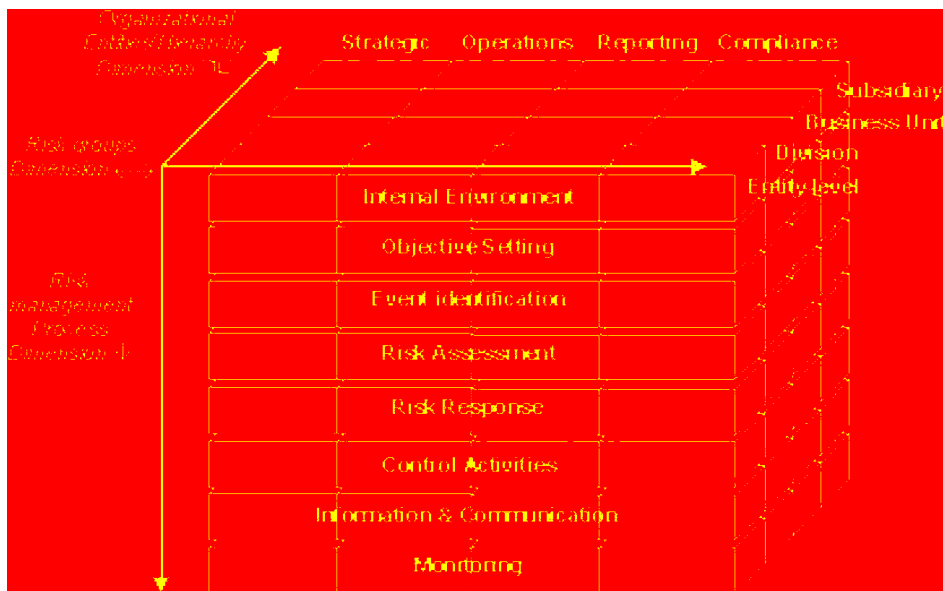
organizational objectives and operational status. Through the risk analysis step, risks are further classified according to the organization part they (may) affect the most, such as strategy, operations, finance, knowledge, and compliance. Subsequently the Risk Reporting and Communication step ensures that risk management objectives and objectives are communicated, internally to other management levels and business units, or externally to major stakeholders, and puts the emphasis on residual risks, or risks that remain unaffected by the risk treatment(s). It follows that through the internal risk communication path, the top-down risk-management schema leads to ‘compartmentalized’ risk management iterations in business unit level and so on until the operational level.

This standard’s particular procedural setting points to a top-down and a star-like organizational approach, reminiscent of a strategically aligned and goal-seeking enterprise. Risk management objectives are set out centrally each time, in alignment with strategic objectives, and are disseminated once a milestone is reached (the decision point in Figure 3). Risk(s) are communicated vertically and horizontally to the organization, until each constituent becomes accordingly aware and can act accordingly.

2.3 COSO-ERM: 2004

The COSO-ERM standard adopts an entity-based view of the organisation, putting the emphasis on achieving stakeholder value as a positive balance between risk and opportunity. The value-based risk approach hence maintains a neutral perspective on risk, while hinting towards a quantifiable risk perception (the stakeholder value). Risk management is achieved through a component-based,

Figure 4
COSO’s Entity-Based Risk Management Framework [Adapted from COSO 2004]



under consideration. As mentioned previously, the AS/NZS standard has been superseded by ISO 31000:2009 which has been adopted by AZ/NCS instead. To avoid repetition, in this section we consider the main characteristics of AS/NZS 4360:2004 including those that are also found in the ISO standard, unless otherwise noted.

Similar to CAN/CSA-Q850-97 the AS/NZS standard adopts a decision-making perspective, with the view that risk management is a process that can be adhered to any decision-making process, carried out by individuals, groups and entire organisations. In contrast to the CAN/CSA however, and similar to the other standards, the AS/NZS standard, the notion of risk is neutral and so, the risk management setting “applies to the management of potential gains and potential losses.”

The AS/NZS risk management process is illustrated in Figure 5.

Figure 5
The AS/NZS 4360:2004 Risk Management Process

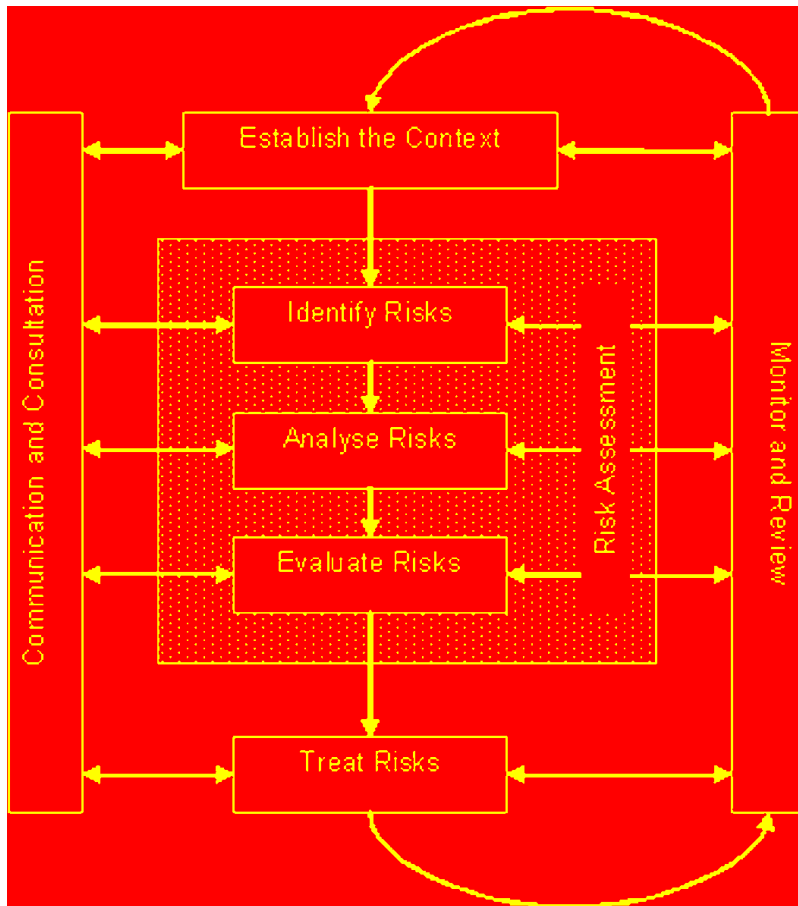
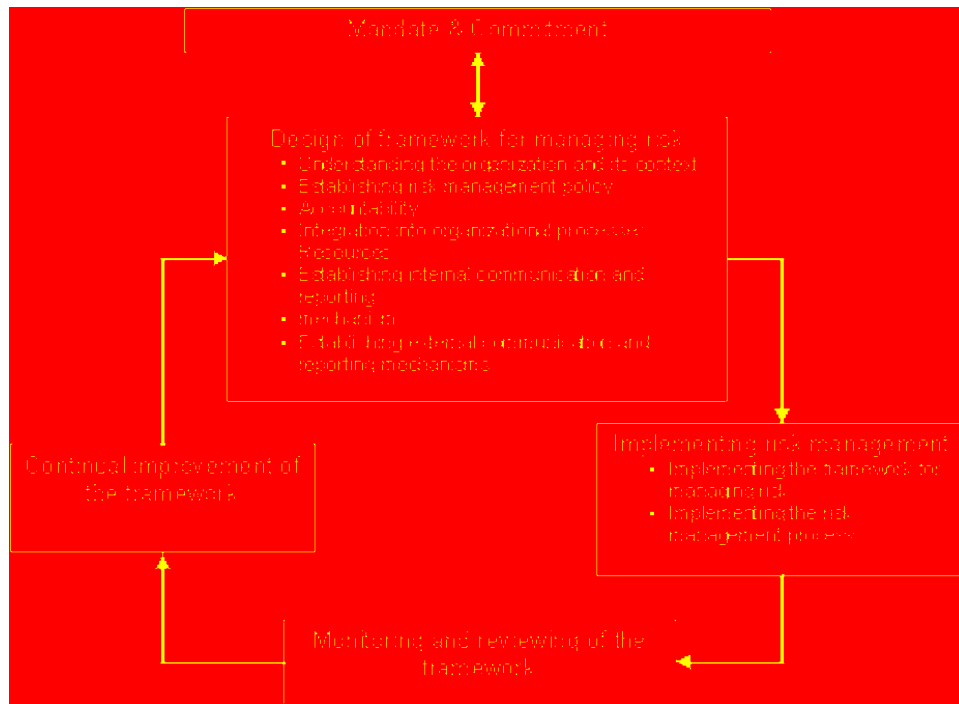


Figure 6
The ISO Risk Management Framework Components



We note that the risk management process illustrated in Figure 6 for the AS/NZS standard, is now part of the “Implementing risk management” component and the “implementing the risk management process” step in particular.

It is easily seen that the ISO emphasis on an organisational framework, shifts the emphasis from applying an iterative process to establishing an organisation-wide risk-management structure. Hence, instead of applying an iterative process on an organization-wide scale or repeatedly across the organisation, as is the case with the other standards, the emphasis is now to (re-)structure the organisation so that the iterative risk management process is routinely applied as part of the organisational activities, much like any other operational process. From this perspective, what becomes more significant than applying risk management is to continually evaluate, monitor and improve, as necessary the risk management function on an organisation-wide, as opposed to simply applying a risk-management routine, in parallel to other organisational functions or quality assurance exercises.

3. DISCUSSION AND CLOSING REMARKS

In this paper we set out to show that Risk Management, as a discipline has reached a critical maturity level to be applied in a variety of contexts that are

