"IT Governance
Helping Business Survival"

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Introduction – Steve Crutchley

• Founder & CEO of Consult2Comply
• 39 Years IT & Business Experience
• 22 Years GRC - Risk/Compliance Experience
• Recognized International Consultant
• ISO 27001, ISO 20000, BS 25999 Qualified Lead Auditor – IRCA approved
• Content expert – Regulations, Standards & Best Practices - worldwide
• ISO 27001, ISO 20000, BS 25999 Trainer and ACP
• Approved CobIT trainer - ISACA
• Experience in Government, Finance, Utilities, Pharmaceutical, Transportation (Airports) and Insurance
• Successfully ran businesses – ex CEO of a public company
• Developed Assessment Software to support the Business & Security/Risk needs
• Product architect for C2C Products
• Numerous Articles, Speaking and TV appearances related to security and security related solutions
Seminar Content?

IT Governance introduction – the why’s and wherefores
Issues that cause IT Governance concerns – setting the scene
Governance Standards and Frameworks
IT Governance for Business Survival

Interactive and Questions

What is IT Governance?

• **Information Technology Governance**, IT Governance is a subset discipline of Corporate Governance focused on information technology (IT) systems and their performance and risk management.

• The rising interest in IT Governance is partly due to compliance initiatives (e.g. Sarbanes-Oxley (USA) and Basel II (Europe)), as well as the acknowledgment that IT projects can easily get out of control and profoundly affect the performance of an organization.
Why target IT?

In recent years, surveys have consistently revealed that 20 to 70 percent of large-scale investments in IT-enabled change are wasted, challenged or fail to bring a return to the enterprise (figure). In fact, one survey on measuring costs and value found that, in many enterprises, less than 8 percent of the IT budget is actually spent on initiatives that create value for the enterprise.

A 2002 Gartner survey found that 20 percent of all expenditures on IT is wasted—a finding that represents, on a global basis, an annual destruction of value totaling about US $600 billion.

A 2004 IBM survey of Fortune 1000 CIOs found that, on average, CIOs believe that 40 percent of all IT spending brought no return to their organizations.

A 2006 study conducted by The Standish Group found that only 35 percent of all IT projects succeeded while the remainder (65 percent) were either challenged or failed.

Reference: Val IT Framework 2.0

Headlines around the world corroborate these findings:

Nike reportedly lost more than US $200 million through difficulties experienced in implementing its supply chain software. Failures in IT-enabled logistics systems at MFI and Sainsbury in the UK led to multimillion-pound write-offs, profit warnings and share price erosion.

Tokyo Gas reported a US $46.6 million special loss due to cancellation of a large customer relationship management (CRM) project. In the public sector, the UK Department for Work and Pensions apparently 'squandered' more than £2 billion by abandoning three major projects.
Why is IT Governance important?

IT are in competition for budget – Business is beating IT to and for budget

IT needs to become a business focused discipline

IT is viewed by senior management as ‘Fire Fighters’ and not ‘Planners or implementers’

IT is viewed as a monetary drain on business

IT needs to compete effectively at the ‘C’ level

Business does not perceive IT as value for money

IT Governance Discipline

The discipline of information technology governance derives from corporate governance and deals primarily with the connection between business focus and IT management of an organization.

It highlights the importance of IT related matters and states that strategic IT decisions should be owned by the corporate board, rather than by the CISO/CSO or other IT managers.
History of IT Governance
Standards and Frameworks

Australian Standards – AS 8015:2005 – Corporate Governance of information and communications technology

ITGi – based on CobiT
Val IT Framework 1.0 – launched 2006
Val IT Framework 2.0 – launched 2008


Setting the Scene
Governance Issues

- Weak Decision making mechanisms
- Ineffective enforcement and conflict resolution
- Protecting Personnel records
- Protecting IP
- Corporate Monitoring
- Human interface
- Setting the Risk appetite
- Making the business owners responsible
- Understanding Stakeholder needs
- Understanding Fiduciary responsibilities
- Linking it all together

Education

- Good and concise Policies
- Understanding Business responsibilities
- Jurisdiction Identification
- Records Management

Laws of the Land & beyond

Risk Issues

- Understanding Risk Appetite
- Understanding Risk Acceptance (Who)
- Understanding Threats and Vulnerabilities
- Control Linking
- Understanding the Risk Process
- Ensuring the correct people are involved
- Risk Assessment – Risk Management
- Risk Reporting

Risk Mitigation

- Accepting Residual Risk
- Cost of Remediation
- Understanding Control Selection process

Risk Differences:
- Fraud
- Business
- Financial
- Technology
- Process
- People
- Tax
- Governance

Risk Integration – Linking it all together
Executives should focus on Information Technology Governance, which when properly implemented should provide the following:
What are the IT Governance Characteristics?

A general theme of IT Governance discussions is that the IT capability can no longer be something the business doesn’t understand and that IT must also understand the business and its needs.

Handling of IT has always been an issue for board-level executives because of the technical nature of IT, therefore, key decisions were left to IT professionals. IT Governance implies a system in which all stakeholders, including the board, internal customers and related areas such as finance, have the necessary input into the decision making process.

This will prevent a single stakeholder, typically IT, being blamed for poor decisions. It also prevents users from later complaining that the system does not behave or perform as expected – very important for IT.

What are the IT Governance Characteristics (2)?

**Most importantly** - The board needs to understand the overall architecture of its company's IT applications portfolio ... The board must ensure that management knows what information resources are out there, what condition they are in, and what role they play in generating revenue...
IT Governance Goals

The primary goals for Information Technology Governance are:

(1) assure that the investments in IT generate business value

(2) mitigate the risks that are associated with IT.

This can be done by implementing an organizational structure with well-defined roles for the responsibility for information, business processes, applications, infrastructure that is well communicated across the organization.

C2C’s GRC Model view – supporting IT Governance
Who is this aimed at?

Senior Management
CIOs
IT Managers
It staff
And
IT centric organizations

What are the Frameworks or Standards?
Overview of ISO/IEC 38500 and Val IT 2.0

What is the objective of IT Governance?

Strategic alignment of IT with the Business with emphasis on Business Governance

Conformance of the organization to Security, Privacy - Trade Practices, IPR, Records Management, Legislation and Regulations (Laws of the Land) and alignment to Best Practices to reduce and streamline costs improve revenues.
What is a framework?

A framework is a basic conceptual structure used to solve or address complex issues – something like ISO/IEC 38500 – Governance for IT.

But it should have processes that are effective.
Principle 1: Responsibility
Individuals and groups within the organization understand and accept their responsibilities in respect of both supply of, and demand for IT. Those with responsibility for actions also have the authority to perform those actions.

Principle 2: Strategy
The organization’s business strategy takes into account the current and future capabilities of IT; the strategic plans for IT satisfy the current and ongoing needs of the organization’s business strategy.

Principle 3: Acquisition
IT acquisitions are made for valid reasons, on the basis of appropriate and ongoing analysis, with clear and transparent decision making. There is appropriate balance between benefits, opportunities, costs, and risks, in both the short term and the long term.

Principle 4: Performance
IT is fit for purpose in supporting the organization, providing the services, levels of service and service quality required to meet current and future business requirements.

Principle 5: Conformance
IT complies with all mandatory legislation and regulations. Policies and practices are clearly defined, implemented and enforced.

Principle 6: Human Behavior
IT policies, practices and decisions demonstrate respect for Human Behavior, including the current and evolving needs of all the ‘people in the process’.
ISO/IEC 38500 Responsibility

3.2 Principle 1: Responsibility – extracts

Evaluate
Directors should evaluate the options for assigning responsibilities in respect of the organization’s current and future use of IT.

Direct
Directors should direct that plans be carried out according to the assigned IT responsibilities.

Monitor
Directors should monitor that appropriate IT governance mechanisms are established.

ISO/IEC 38500 Strategy

3.3 Principle 2: Strategy - extracts

Evaluate
Directors should evaluate developments in IT and business processes to ensure that IT will provide support for future business needs.

Direct
Directors should direct the preparation and use of plans and policies that ensure the organization does benefit from developments in IT.

Monitor
Directors should monitor the progress of approved IT proposals to ensure that they are achieving objectives in required timeframes using allocated resources.
ISO/IEC 38500 Acquisition

3.4 Principle 3: Acquisition - extracts

Evaluate
Directors should evaluate options for providing IT to realize approved proposals, balancing risks and value for money of proposed investments.

Direct
Directors should direct that IT assets (systems and infrastructure) be acquired in an appropriate manner, including the preparation of suitable documentation, while ensuring that required capabilities are provided.

Monitor
Directors should monitor IT investments to ensure that they provide the required capabilities.

ISO/IEC 38500 Performance

3.5 Principle 4: Performance - extracts

Evaluate
Directors should evaluate the means proposed by the managers to ensure that IT will support business processes with the required capability and capacity. These proposals should address the continuing normal operation of the business and the treatment of risk associated with the use of IT.

Direct
Directors should ensure allocation of sufficient resources so that IT meets the needs of the organization, according to the agreed priorities and budgetary constraints.

Monitor
Directors should monitor the extent to which IT does support the business.
ISO/IEC 38500 Conformance

3.6 Principle 5: Conformance - extracts

Evaluate
Directors should regularly evaluate the extent to which IT satisfies obligations (regulatory, legislation, common law, contractual), internal policies, standards and professional guidelines.

Direct
Directors should direct those responsible to establish regular and routine mechanisms for ensuring that the use of IT complies with relevant obligations (regulatory, legislation, common law, contractual), standards and guidelines.

Monitor
Directors should monitor IT compliance and conformance through appropriate reporting and audit practices, ensuring that reviews are timely, comprehensive, and suitable for the evaluation of the extent of satisfaction of the business.

ISO/IEC 38500 Conformance

3.7 Principle 6: Human Behavior - extracts

Evaluate
Directors should evaluate IT activities to ensure that human behaviors are identified and appropriately considered.

Direct
Directors should direct that IT activities are consistent with identified human behavior.

Monitor
Directors should monitor IT activities to ensure that identified human behaviors remain relevant and that proper attention is given to them.
Val IT Framework 2.0

**Purpose:** Governance of IT Investments

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<tr>
<th>Value Governance (VG)</th>
<th>Portfolio Management (PM)</th>
<th>Investment Management (IM)</th>
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<tbody>
<tr>
<td>Establish informed and committed leadership.</td>
<td>Establish strategic direction and target investment mix.</td>
<td>Develop the initial programme business case.</td>
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<td>Align and integrate value management with enterprise financial planning.</td>
<td>Determine the availability and sources of funds.</td>
<td>Understand the candidate programme and implementation options.</td>
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<tr>
<td>Ensure effective governance monitoring.</td>
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<td>Develop the detailed candidate programme business case.</td>
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<td>Continuously improve value management practices.</td>
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<td>Launch and manage the programme.</td>
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<td>Update operational IT portfolios.</td>
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**Value Governance (VG)**

*Value governance* establishes the overall governance framework, including defining the portfolios required to manage investments and resulting IT services, assets, and resources.

*Value governance* monitors the effectiveness of the overall governance framework and supporting processes, and recommends improvements as appropriate.

**Portfolio Management (PM)**

*Portfolio management* establishes the strategic direction for investments, the desired characteristics of the investment portfolio, and the resource and funding constraints within which portfolio decisions must be made.

*Portfolio management* evaluates and prioritizes programs within resource and funding constraints, based on their alignment with strategic objectives, business worth (both financial and non-financial), and risk (both delivery risk and benefits risk), and moves selected programs into the active portfolio for execution.

*Portfolio management* monitors the performance of the overall portfolio, adjusting the portfolio as necessary in response to program performance or changing business priorities.
Investment management defines potential programs based on business requirements, determines whether they are worthy of further consideration, and develops and passes business cases for candidate investment programs to portfolio management for evaluation.

Investment management launches and manages the execution of active programs, and reports on performance to portfolio management. Investment management moves resulting IT services, assets and resources to the appropriate operational IT portfolio(s) and continues to monitor their contribution to business value.

Investment management retires programs when there is agreement that desired business value has been realized, or when retirement is deemed appropriate for any other reason.

Investment management monitors the performance of IT services, assets and resources to determine whether additional investments are required to maintain, enhance, or retire the service, asset, or resource to sustain or increase their contribution to business value.
Modeling IT Governance

Keys to success

1. Don’t work in silos
2. Allocate responsibilities
3. Make sure people understand the plan and model
4. The model must be mapped across the organization
5. It must include all aspects and requirements – Policies, procedures, process maps
6. Create relationships across multiple control frameworks

Good IT Governance Principles

Commitment
Governance Policy
Roles and Responsibilities
Identification of Business Governance issues
Obligations to stakeholders
Organizational Policies
Operating procedures
Dealing with breaches
Record keeping
Internal reporting
Maintenance
Education and training
Communication and visibility
Monitoring and assessment
Review
Report back
How do you measure IT Governance?

Must have decided on the standard or framework
Must understand your IT Governance requirements
Must understand your business objectives
Must understand the processes you are supporting
Must set a baseline to work from – includes your responsibilities
Must be able to Monitor
Must have a measurement method – Measure
Must be able to Manage
Must be able to Self Assess

What can help you?

Understand applicable Compliance landscape (GRC)
ISO 20000/ITIL – Service management v.3
ISO 27001 – Information Security Management System
ISO/IEC 38500 It Governance Standard
COBIT/ITGI – Val IT 2.0
CMM – Maturity Modeling
Six Sigma - Quality
Balanced Scorecard - Metrics (Monitor, Measure and Manage)
Understand your Business need and respond accordingly
ISO 20000 IT service management structure?

ISO 27001 Information Security management – management structure?
Implementation issues

Management Commitment
IT understanding from a management perspective
IT’s understanding of business processes
Effective and appropriate training
People - hidden agendas
Getting budget
Proving Business value for IT Governance implementation

Getting it RIGHT!

Example IT Governance Structure
Harmonization with existing BS/ISO standards & guidelines

ISO 27799 Health Informatics - Security Management in Health using ISO 17799
ISO 19077 Software Asset Management
ISO 27005 Information Security Risk Management
ISO 15489 Effective Records Management
ISO 21188 Public Key Infrastructure for Financial Services
ISO 18044 Incident Management
BS 8470 Secure Disposal of confidential material
BS 5854 Security Consultancy Code of Practice
ISO 15288 System & Software Engineering - System lifecycle processes

Questions?
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