

_experience the commitment



IM/IT Governance and Portfolio Management

Presented to: Open Group EA Conference Brussels

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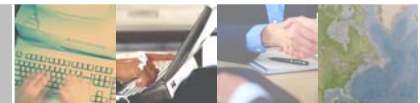
Prepared by:

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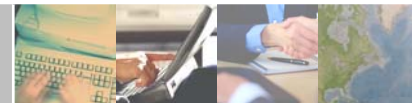
Issues at Hand

- **Why IT Governance ?**
- **What is IT Governance ?**
- **Linkage IT Governance and Portfolio Management**
- **Linkage Portfolio Management/Governance and EA**
- **Project Generation Paradigm**
- **Concluding Comments**



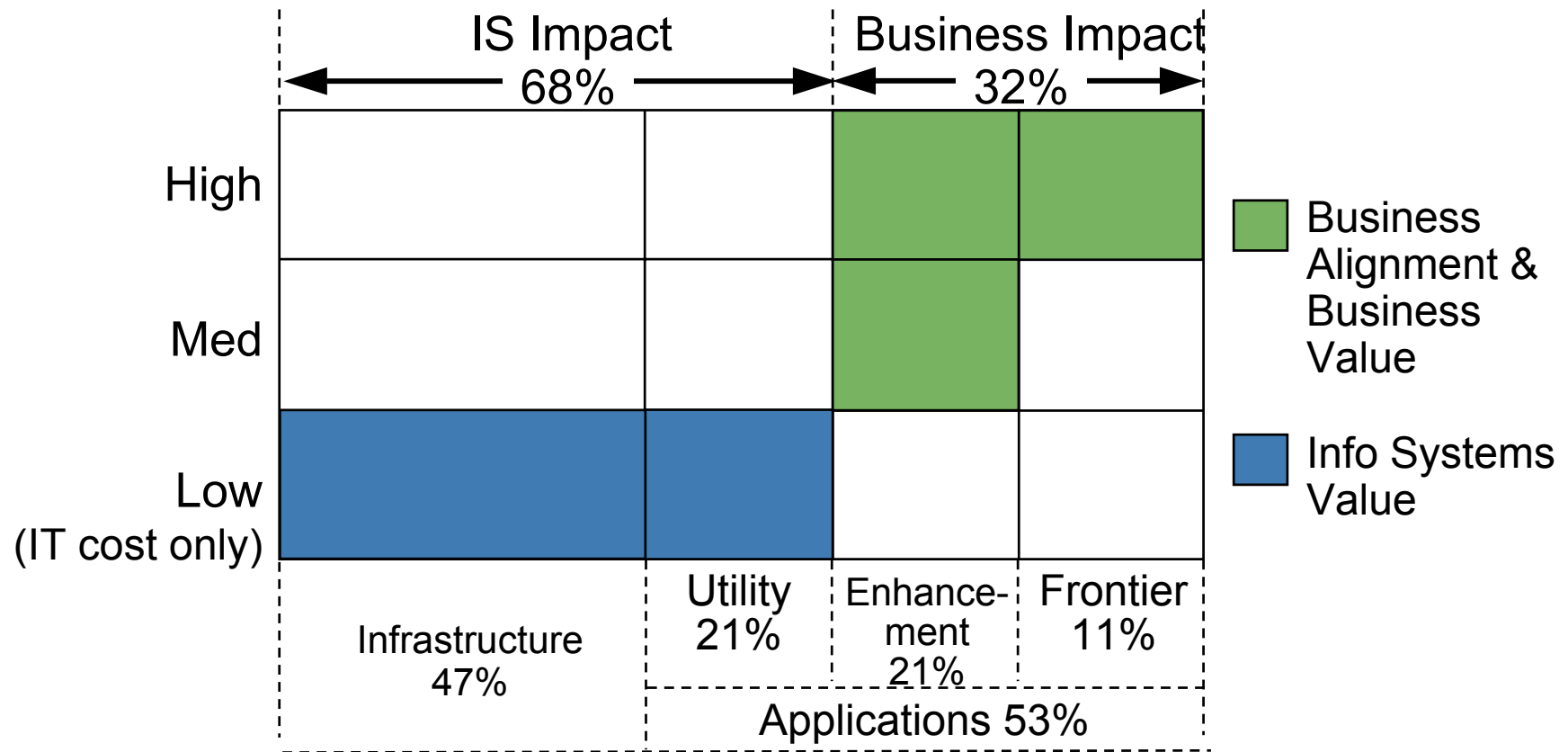
Why IT Governance ?

- **High IT Project Failure Rate**
- **ROI on IT**
- **Auditors**
- **Analyst Premium**
- **IT is key government and corporate enabler**
- **Sarbanes Oxley**
- **Demographics**
- **Technology chasing perception**



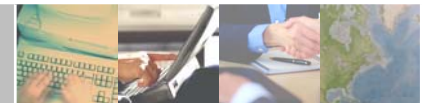
About One-Third of IT Spending Improves Business Performance (Gartner)

Contribution to Improved Enterprise Performance



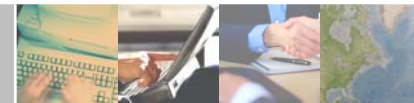
Typical Portfolio of IT Investments Share of Total IT Spending

(Courtesy Gartner Group Dec 2003)



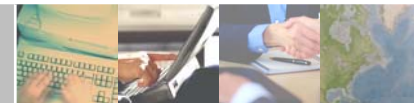
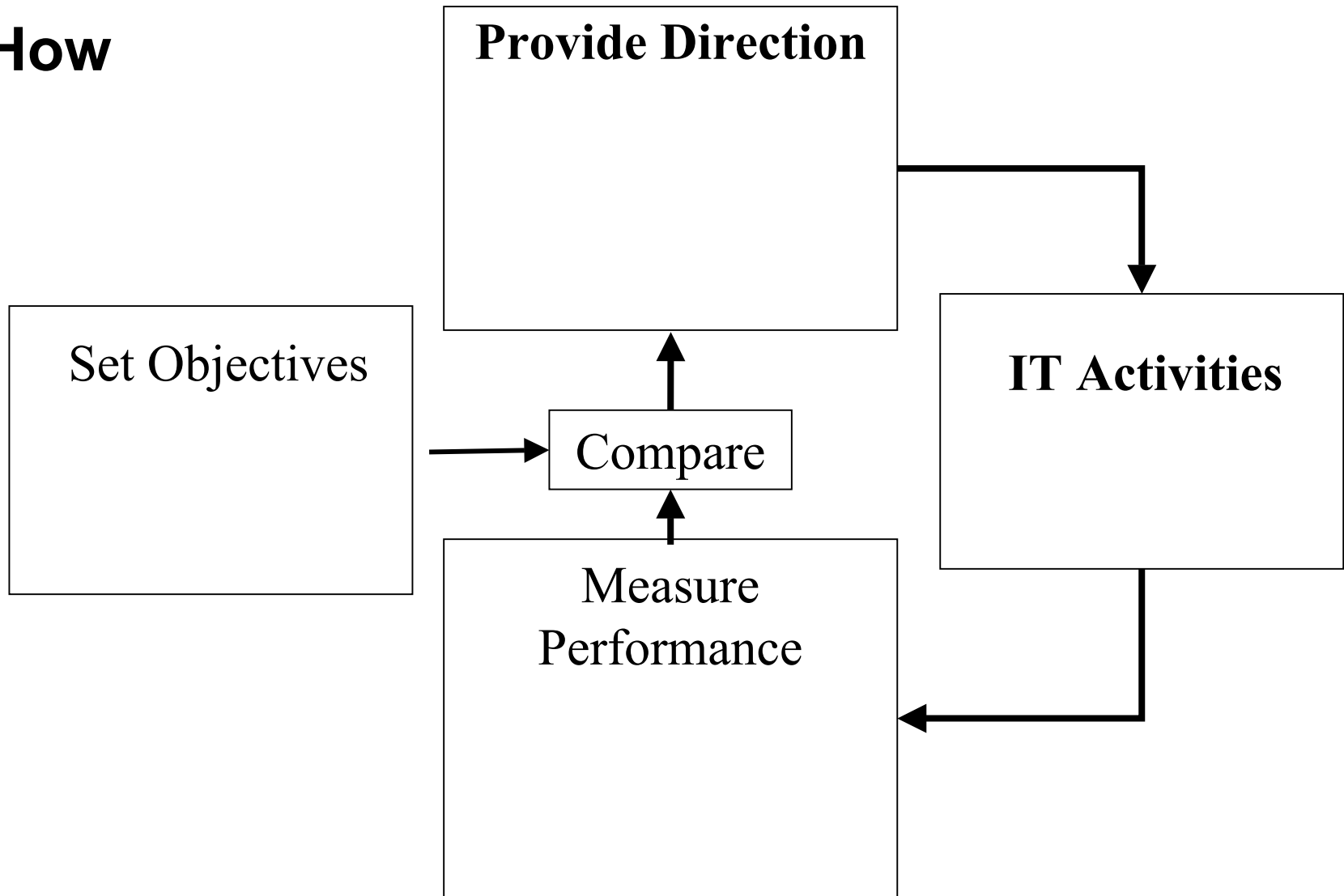
What is IT Governance ?

- **Integral part of enterprise governance**
- **Directors and executive management**
- **Leadership, organizational structures and processes**
- **Accountability, Responsibilities and Authority**
- **Ensure IT alignment**



IT Governance Processes

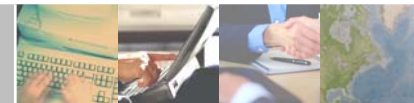
How



Summary of Governance Best Practices

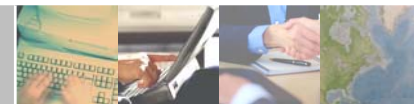
IT Governance and Portfolio Management

- **1 - Adopt a Project Portfolio Approach to IT Governance**
- **2 - Develop a Tracking System**
- **3 - Review Projects**
- **4 - Establish Review Levels**
- **5 - Culture of Ownership**
- **6 – Clear IT Governance “process” is established**
 - Clear accountability, responsibility and authority
- **7 - Adherence to Process**



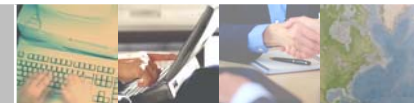
Enterprise Architecture (EA) and Portfolio Management

- **Process of Management sterile in absence of context**
- **Need for Context**
 - Skyscraper has an overall plan
 - Not designed and built one room at a time no matter how well managed
- **Actually skyscrapers are partially built one room at a time**
 - EA provides the basic floor plan and utilities lay-out
 - Provides basis for “out of context” design and planning
- **In IT Enterprise Architecture provides context**
 - Different levels of abstraction

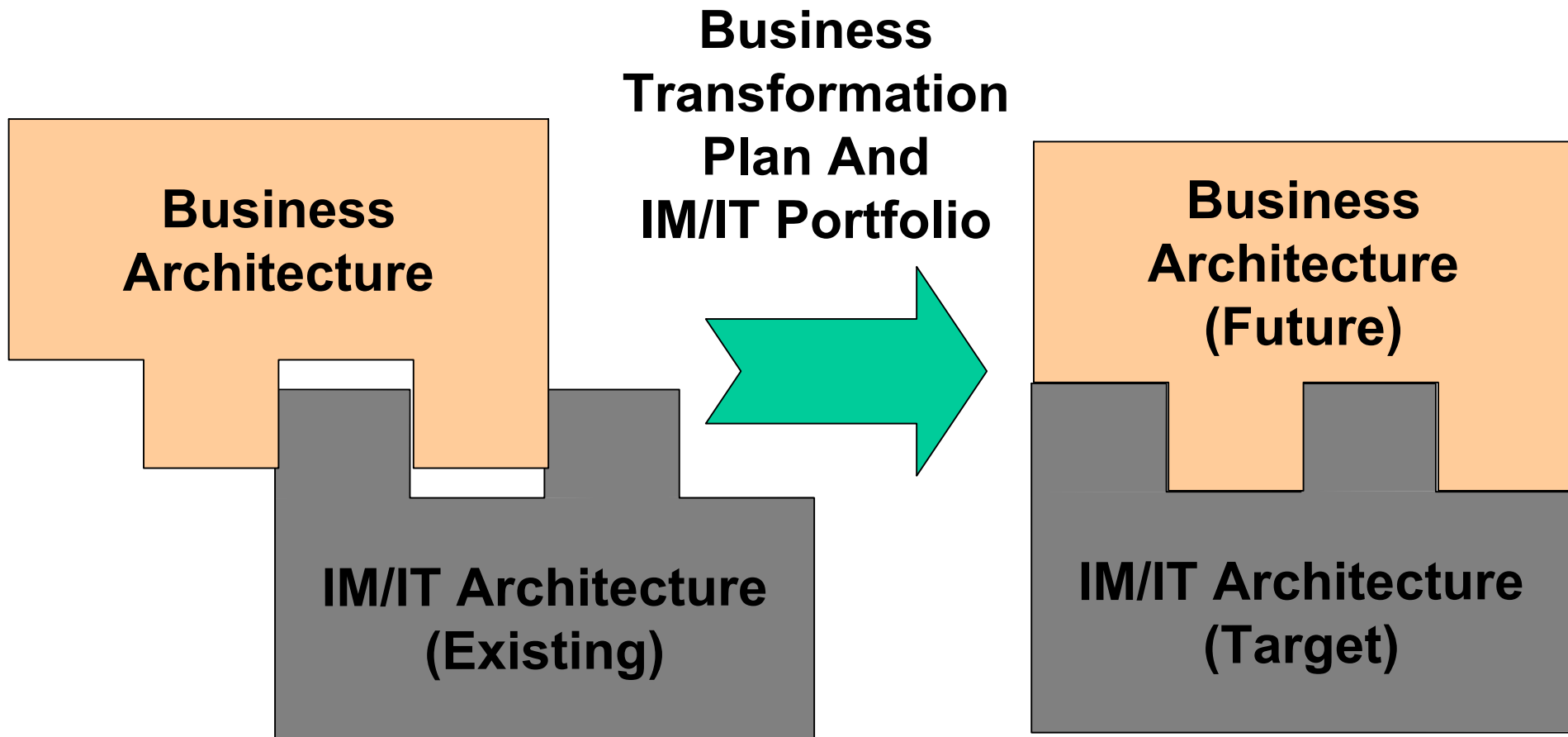


The Zachman Framework – An EA Model

	<i>What</i>	<i>How</i>	<i>Where</i>	<i>Who</i>	<i>When</i>	<i>Why</i>
	Data	Process	Network	People	Time	Motivation
Scope/Objectives (Board)	Business Architecture					
Model of Business (CxO)						
Description of IS (Designer)	Business and Technical Architecture Transition					
Technology Model (Architect)	Technology Architecture					
Detailed Description (Builder)						
Implementation (Maintainer)						



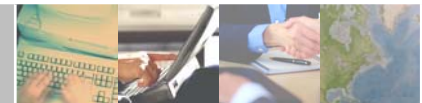
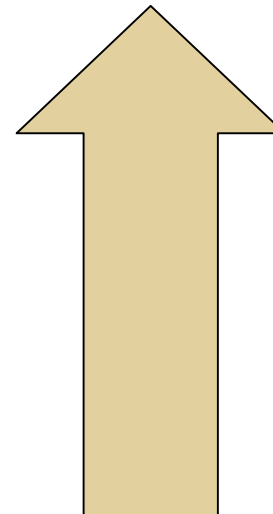
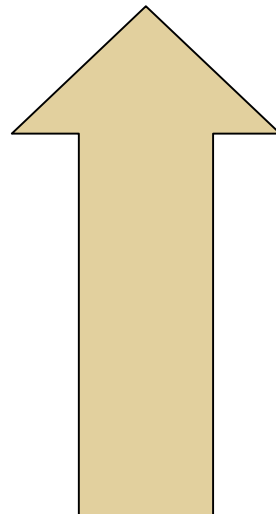
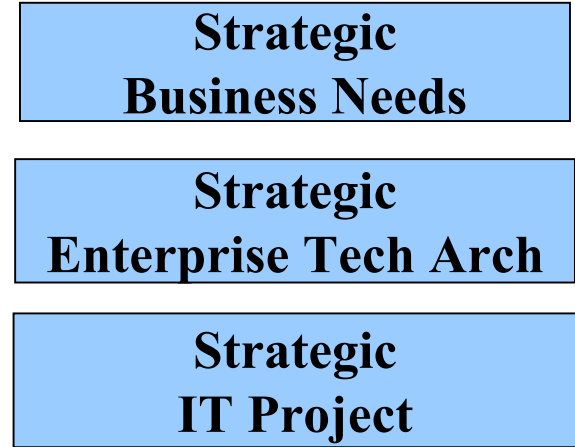
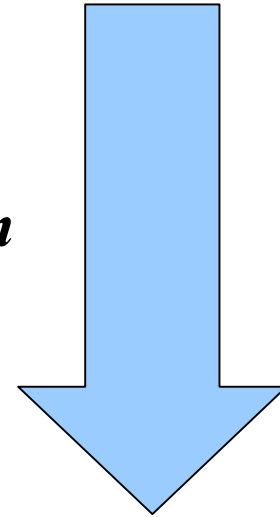
IT Governance – Managing the Migration To a New Enterprise Architecture using Projects



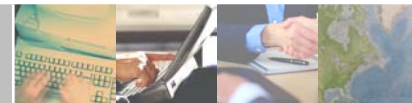
EA Enables Strategic Project Generation

*EA enables proactive
Strategic Project Generation*

Tactical Project
Generation



EA in Governance Ensures Strategic Fit



IT Governance Who

■ Board

- Board of Directors
- IM/IT Strategy Committee

IM/IT Strategy
Committee

■ Executive Management – CEO

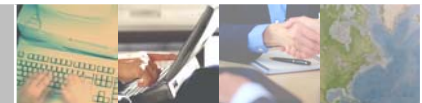
- Project Portfolio Management Board for all projects
- Chaired by CEO
- Heads of the lines of business including CIO

Corporate
Portfolio
Management
Board

■ Committees – CIO

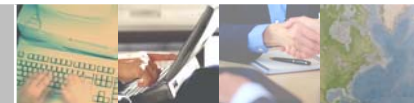
- IT Steering Committee – Chaired by CIO – All IT Projects
- Technology Council - Impact
- IT Arch Review Board – Standards/Conformance

Information
Management
Advisory
Committee
(IMAC)



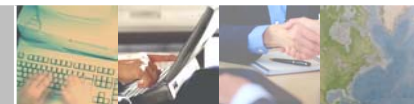
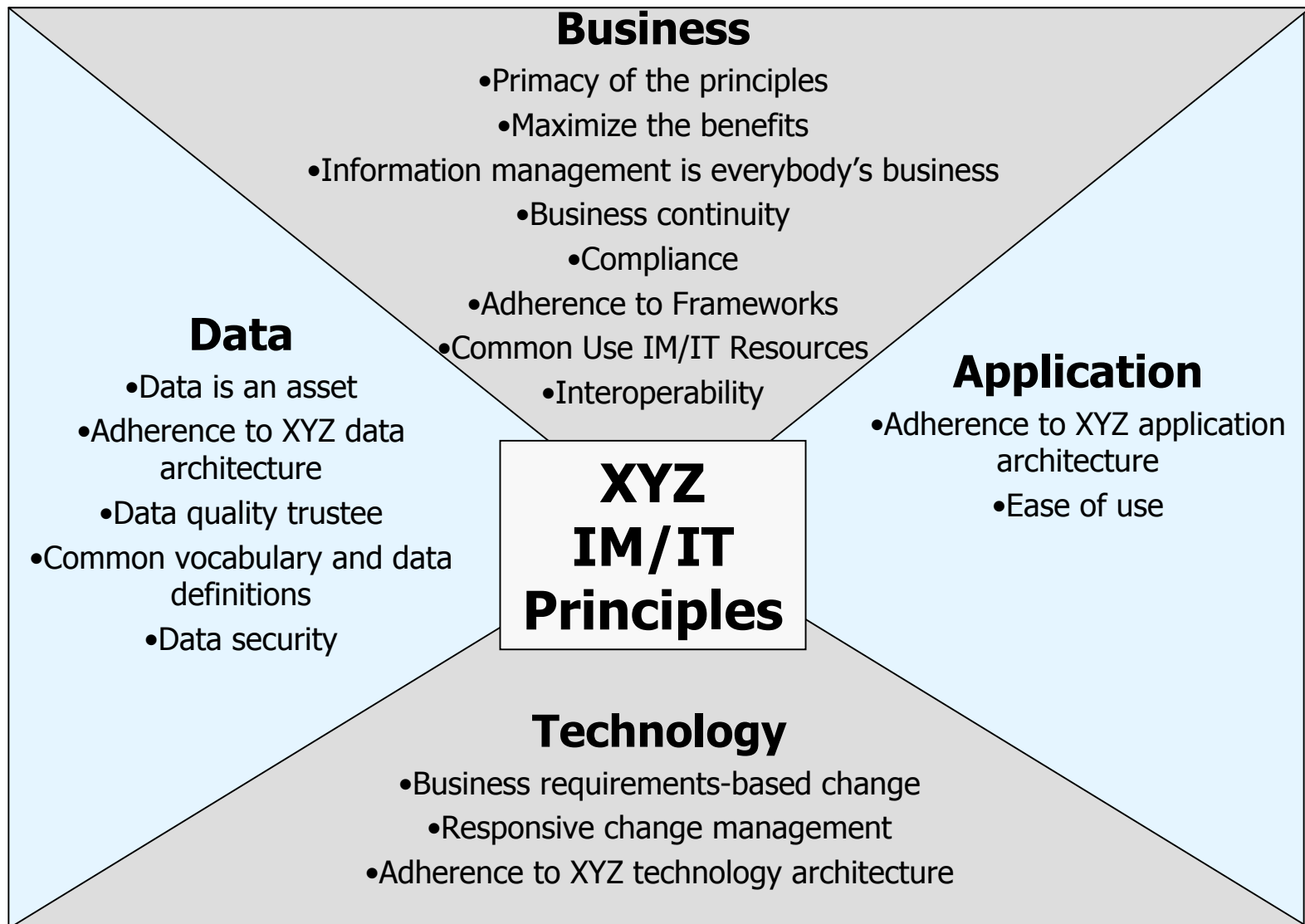
Assessing the Projects - Metrics

- Principles
- CIO IM/IT Metrics
- CEO Strategic Metrics
- Applying the Metrics



Principles – The Initial Hurdle

(A Real World Example using TOGAF)

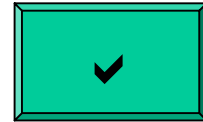


Principles

The Project Charter's First Hurdle

- Data Is an Asset

- *Is Data being managed as a business asset ??*



- Adherence to XYZ Data Architecture

- *Does the project fit into the XYZ Data Arch?*



- Data Quality Trustee

- *Does the project manage data quality?*



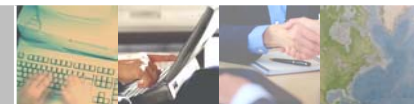
- Common Vocabulary and Data Definitions

- *Will the project re-use corporate data standards?*



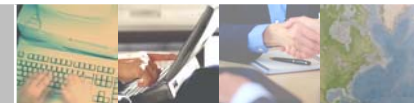
- Data Security

- *Does the project cater to security concerns/policy?*



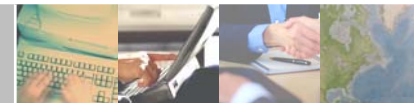
Principles – The Underlying Assumptions

- **Existence of a Integrated Business Plan**
- **Business Participation and Ownership**
- **Existence of IM/IT Architectures**
 - Data
 - Application
 - Technology
- **Existence of Higher Level Governance**



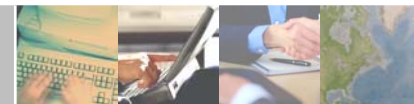
Performance Metrics/Assessment Criteria A CIO Perspective

- **IM/IT Value**
- **IM/IT Fit**
- **IM/IT Risk**



IM/IT Value Metrics – CIO View

- **Greater Customer Satisfaction**
- **Reduced Costs**
- **Increased Capability: Stability & Reliability**
- **Increased Capability: Compliance**
- **Increased Capability: Security**



IM/IT Fit Metrics – CIO View

■ Current Business Environment

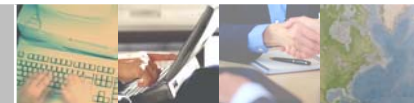
- Business ready ?

■ Current Technical Environment

- The ability of the project to enhance the current environment.

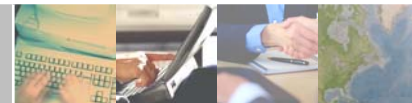
■ Future Technical Environment

- The contribution of the project to the future (target) environment.



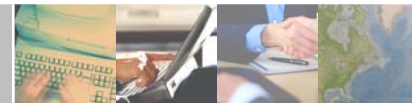
IM/IT Risk Metrics – CIO View

- **Implementation Risk:**
More expensive than planned
- **Implementation Risk:**
Longer than planned
- **Operational Risk:**
Project Will Not Complete



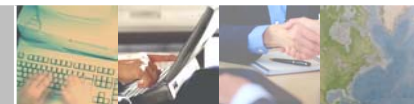
Strategic Metrics – A CEO Perspective

- **IM/IT Value**
- **IM/IT Fit**
- **IM/IT Risk**



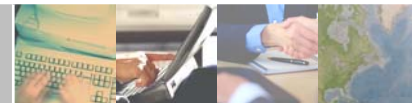
Strategic Value – CEO Perspective

- **Return on Investment from more ‘macro’ perspective.**
- **Clearly define the dimension of ROI for the environment. (e.g. cash, person-days, speed of delivery,...)**
- **CEOs assign broad values (low, medium or high)**
 - **Short Term:** Return likely to be low, medium or high?
 - **Long Term:** may be no short-term benefit



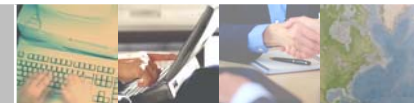
Strategic Fit – CEO Perspective

- **Strategic fit versus technical fit**
- **CEO seeks fit into the agency's business strategy.**
- **CEO may modify CIO's rating to reflect project's longer-term fit with the corporate strategic direction**



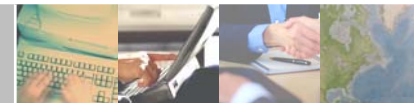
Strategic Risk – CEO Perspective

- **Risk is rated from a ‘macro’ perspective**
 - Risk is essential to remain competitive, just has to be managed
- **CEO regards risk from two perspectives:**
 - Economic Risk if corporate environment changes
 - Organizational Risk if corporate organizational changes are pending



Applying the Metrics

- **Project Assessment Sheet**
 - CIO Perspective
 - CEO Perspective
- **Value – Risk Quadrant**
- **PPMB Using Value-Risk**
 - Generalized cases
 - Considering Project Status

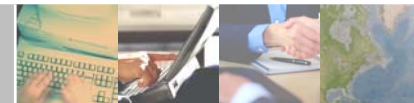


Project Review – CIO Perspective

(Actual Case Study)

Project Name:

Criteria	Description	Value	Score	Weight	Wt Score
<i>IM/IT Value</i>	Reduced costs	10		.1	
	Increased Capability:				
	* Stability/Reliability	10		.1	
	* Compliance	10		.05	
	* Security	10		.05	
	Greater Customer satisfaction	10		.1	
<i>IM/IT Fit</i>	Current Technical Environment	10		.15	
	Future Technical Environment	10		.05	
<i>IM/IT Risk</i>	Implementation Risk:				
	* More expensive than planned	10		.1	
	* Longer than planned	10		.1	
	Operational Risk (will not complete)	10		.2	
Total:				1.0	
Project Score (Value + Fit – Risk):					

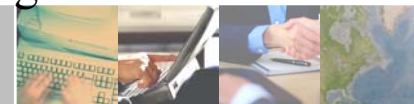


Project Review – The CEO Perspective

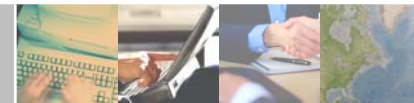
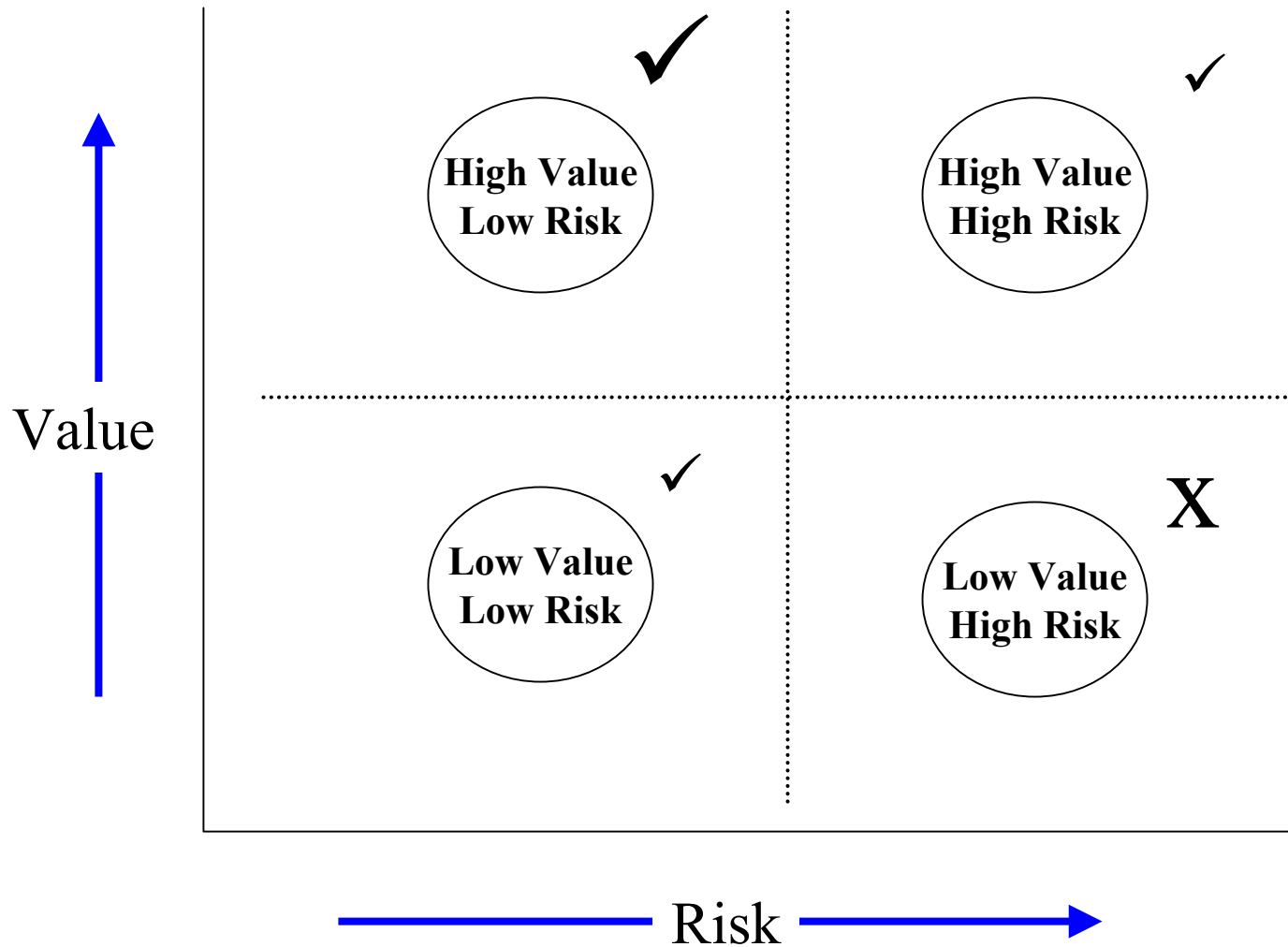
Project Name:					
Criteria	Description	Value	Score	Weight	Wt Score
IM/IT Value	Reduced costs	10		.1	
	Increased capability:				
	Stability & Reliability	10		.1	
	Compliance	10			
	Security	10			
	Greater Customer satisfaction	10			
IM/IT Fit	Current Technical Environment	10			
	Future Technical Environment	10		.05	
IM/IT Risk	Implementation Risk:				
	More expensive than planned	10		.1	
	Longer than planned	10		.1	
	Operational Risk (will not complete)	10		.2	
Total:				1.0	
Project Score (Value + Fit – Risk):					

Project Name:				
Criteria	Score	Weight	Wt Score	
ROI				
FIT				
Prob				
Project Score:				

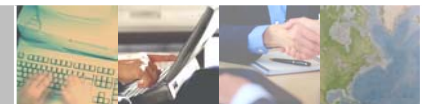
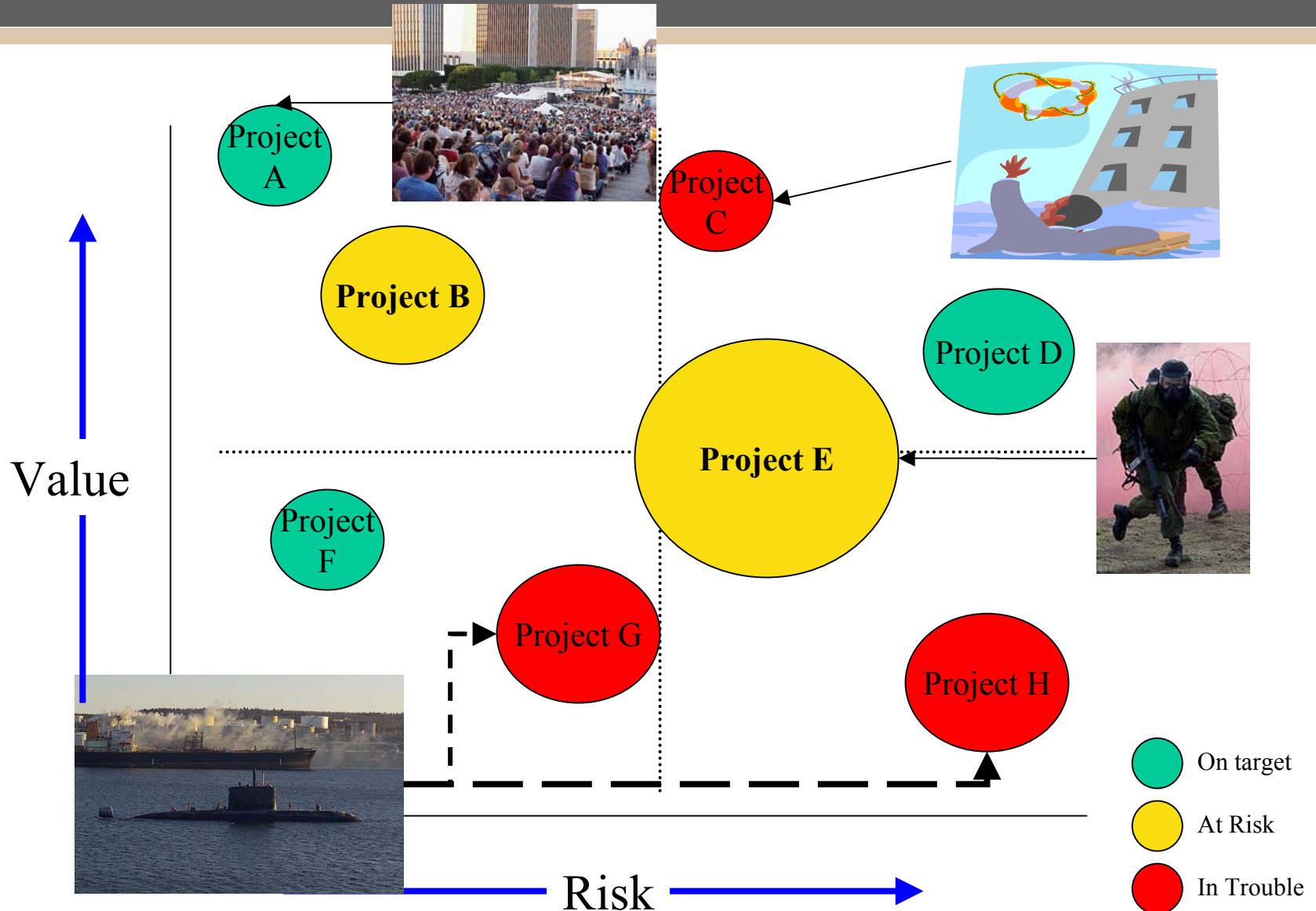
Add:
 Strategic Fit
 Economic Value
 Organizational Risk



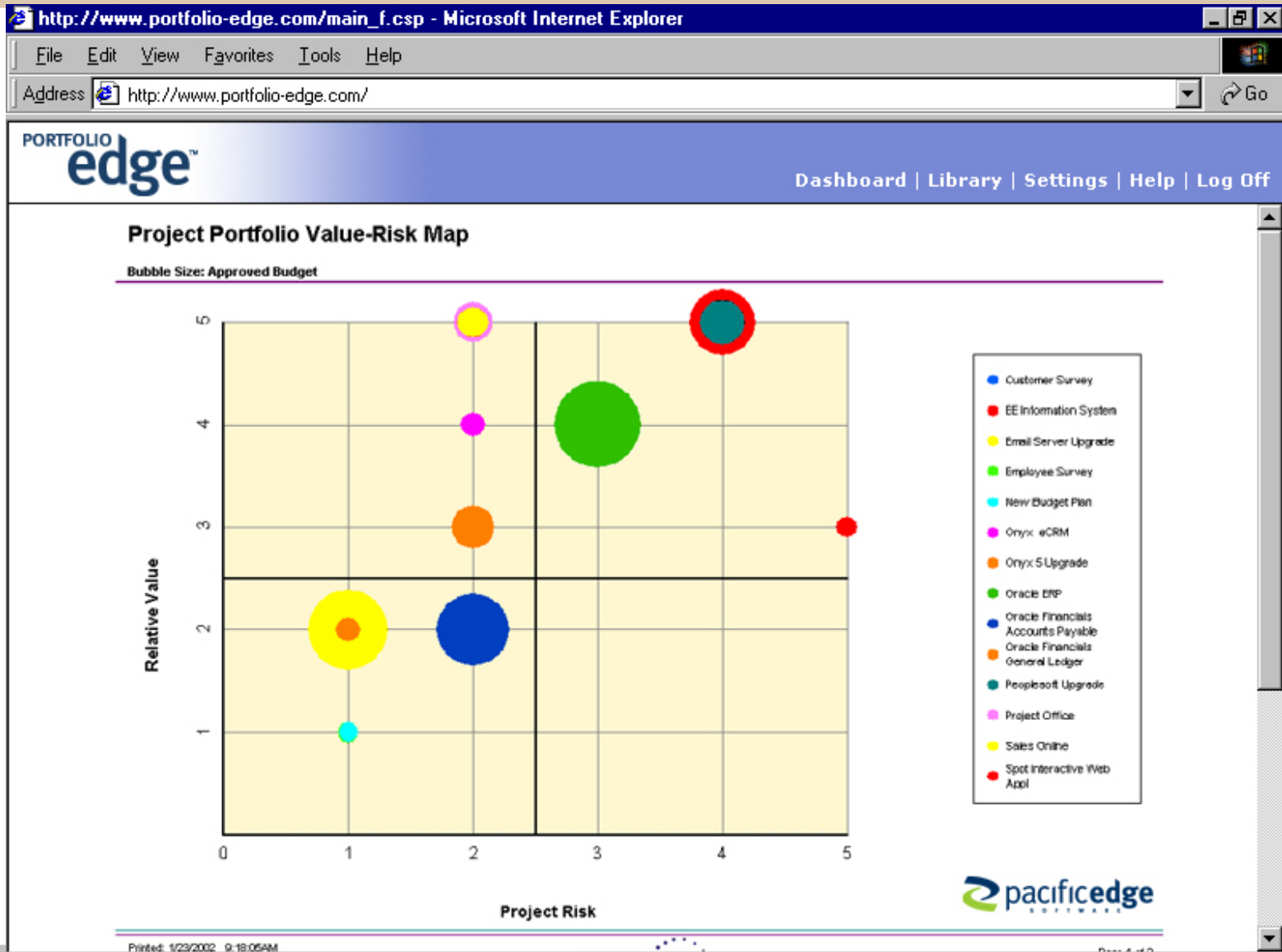
Projects in a Portfolio



Project Portfolio - Utility



Example of Tools Available (Courtesy Gartner)



Portfolio Management Tools – 2

(Courtesy Gartner)

Portfolio Edge 1.0 : Dashboard - Microsoft Internet Explorer

File Edit View Favorites Tools Help Address http://www.portfolio-edge.com/ Go











Back Search Favorites History

PORTFOLIO edge™ Dashboard | Library | Settings | Help | Log Off

Dashboard

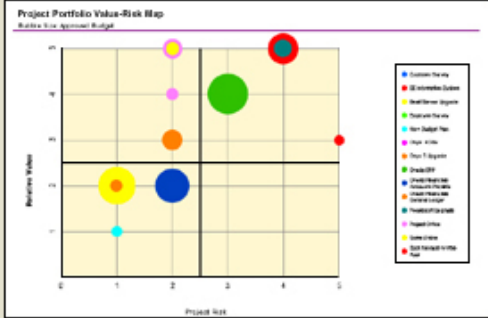
Charts

Click on a Chart Title to Preview.

	Investment Allocation		Portfolio Health Status
	Project Dashboard Summary		Project Portfolio Bubble Chart
	Project Portfolio Drilldown		Project Portfolio Stacked Bar Chart
	Project Portfolio Value-Risk Map		Resource Allocation Detail
	Resource Allocation Summary		Resource Pool Breakdown

Details

Project Portfolio Value-Risk Map



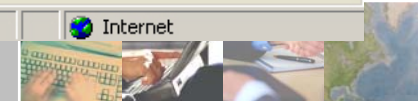
Project Portfolio Value-Risk Map

Run New Chart | Remove from Dashboard

History

Click on a date to view the instance. Hover above the date to view the instance parameters.

- 3/4/2002 11:00:16 PM
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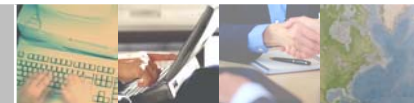
Implement an IT Governance Implementation Plan

■ Steps

- Set up a governance organizational framework;
- Align IT strategy with business goals,
- Understand and define risks,
- Define target areas,
- Analyze current capability and identify gaps;
- Define implementation strategies/activities
- Define implementation projects
- Measure results and repeat

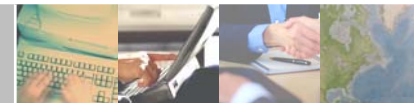
■ To assist in IT assessment, gap analysis and performance management

- Control Objectives for Information and related Technology (CobiT)
- US FEAF Performance Reference Model



Project Management

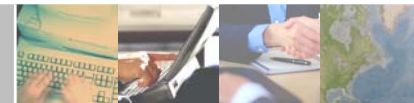
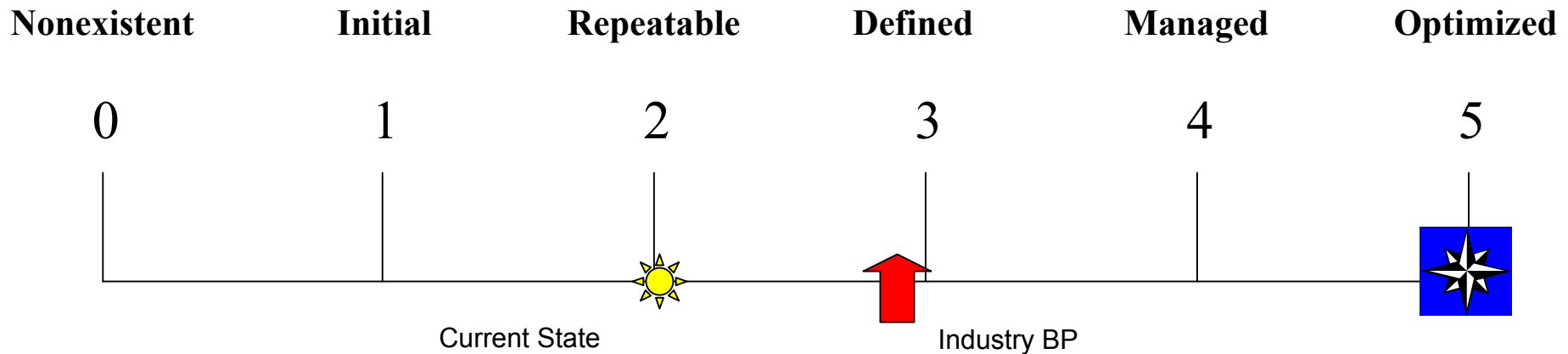
- **Great governance and great plans poorly implemented are useless**
- **Great project management and poor plans and poor governance are useless**
- **Project management IT Achilles Heel**
- **Project Management Institute**
 - solid guidelines
 - PMP designation
- **Project Management Centre of Expertise**
 - Corporate asset for all projects
 - Very useful to increase success of projects



IT Governance Who and When

■ IT Governance Maturity Model (IT Governance Institute)

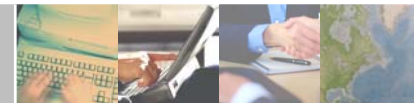
- 0 – Nonexistent - Management processes are not applied at all
- 1 – Initial - Process are ad hoc and disorganized
- 2 – Repeatable - Processes follow a regular pattern
- 3 – Defined - Processes are documented and communicated
- 4 – Managed - Processes are monitored and measured
- 5 – Optimized - Best practices are followed and automated



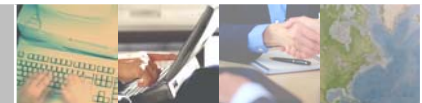
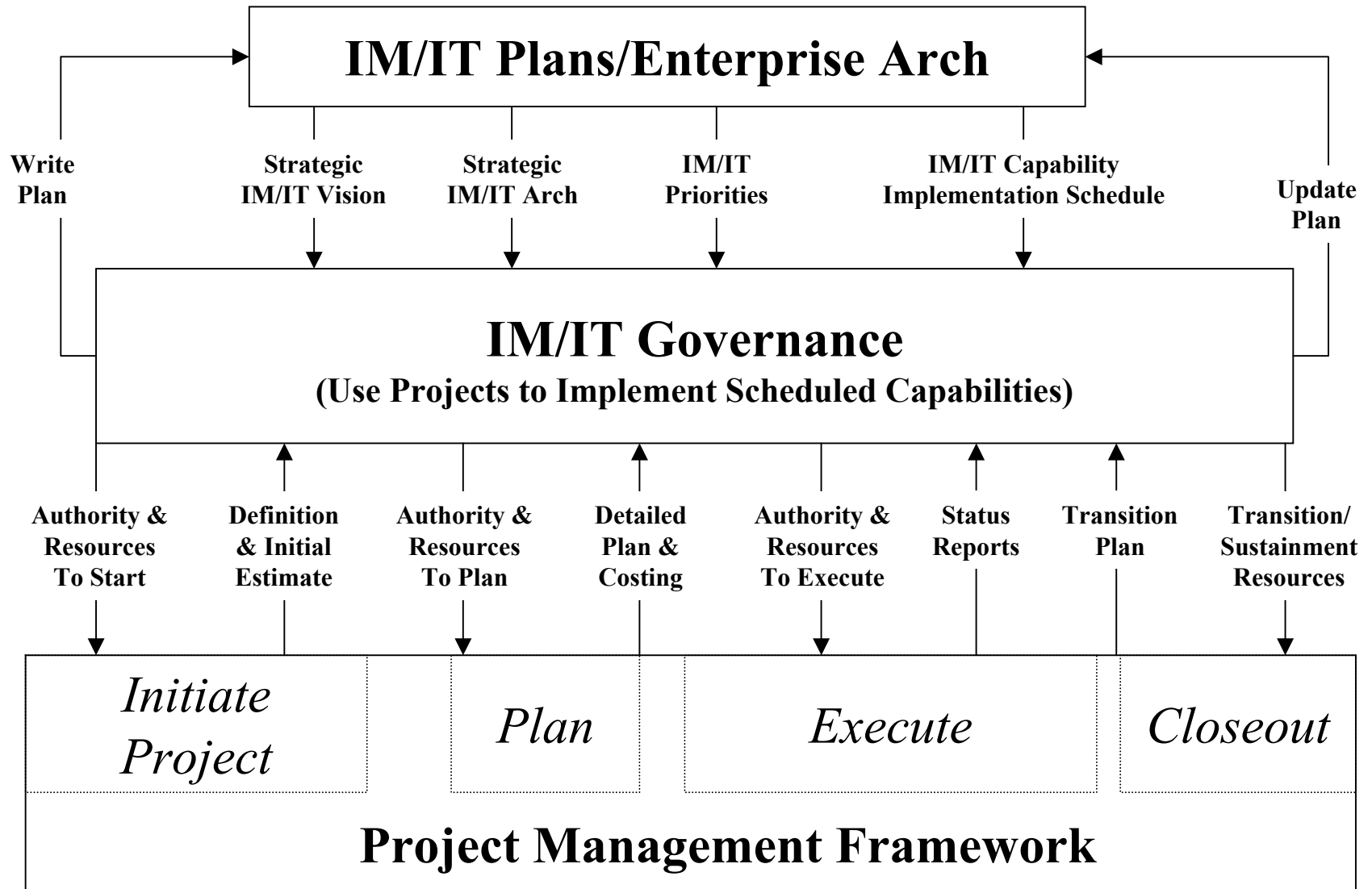
Operational Level Governance

IT Infrastructure Library (ITIL)

- **Emerging Operational Level Management Framework**
- **Based upon “Best Practices” for sustaining IM/IT infrastructures**
- **Strategic Governance has to empower operational level managers**
- **Consists of following services:**
 - **Service Desk**
 - **Service Level Management**
 - **Incident Management**
 - **IT Service Continuity Management**
 - **Problem Management**
 - **Availability Management**
 - **Change Management**
 - **Capacity Management**
 - **Release Management**
 - **Financial Management**
 - **Configuration Management**

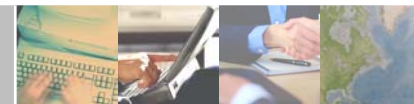


Initiative Synchronization – It All Fits



IT Governance - Concluding Comments

- **IT Governance part of overall Enterprise Governance**
 - Manage IT like any other corporate asset
 - IT becoming key corporate value delivery enabler
- **Existing body of governance knowledge**
 - E.g. Information Technology Governance Institute, OECD
 - ITIL (UK Office of Government Commerce)
- **Enterprise Architecture for**
 - strategic alignment,
 - efficient resource management and
 - capability delivery
- **Project Management to implement**
- **Incrementally move up Governance Maturity Model**



We are Corporate CIO. Resistance is Futile. You will be assimilated.



- Governance is not always well received
- Involve business
- Be Tactful

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Thank-you for your attention

Questions ?

_experience the commitment



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