



The Role of a Dynamic Infrastructure on IT Governance

CLAB - Congreso Latino Americano de
Automatización Bancaria

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IT Governance

- Specifying the decision rights and accountability framework to encourage desirable behavior in the use of IT. *(CISR at MIT Sloan Management)*

- Five key IT decisions:
 - » IT Principles
 - » Architecture
 - » Infrastructure
 - » Application needs and investments*(CISR at MIT Sloan Management)*

Driving Business Outcomes

The CIO's new Agenda

Enable Business Growth and alignment

Drive IT value and predictable delivery

Governance and operational efficiency

Improve IT people's skills & ability

Source: Gartner EXP 2006 Survey, abridged

Driving Business Outcomes

IT fuels profitable revenue growth

Top 25% of IT capable firms grew revenue 6.8% faster per year

Firms with better IT have more productive employees

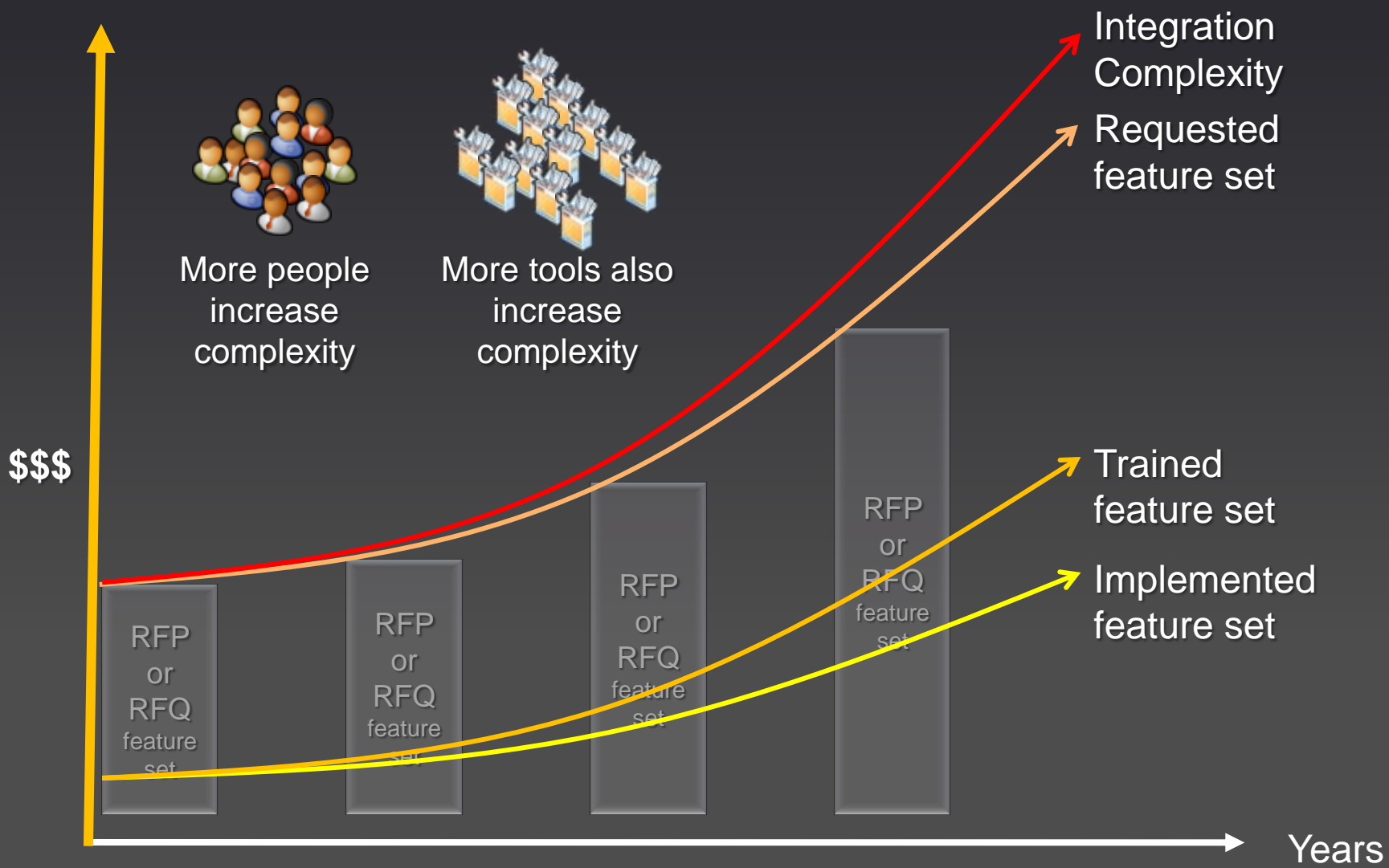
Top 25% of IT capable firms realize 23% higher revenue per employee

IT gives managers more insight and control

Managers in IT capable firms state they have significantly better insight and control over key dimensions of their business

Source: Enterprise IT Capabilities and Business Performance, Marco Iansiti, David Sarnoff Professor of Business Administration, Harvard Business School George Favaloro, Principal, Keystone Strategy, Inc-March 2006

Purchasing does not mean acquiring a capability



More people increase complexity

More tools also increase complexity

Integration Complexity
Requested feature set

Trained feature set
Implemented feature set

Integration complexity is not solved by tools

- Will newer HW alleviate growth needs?
- Does backing up mean we are prepared?
- Will newer versions of the software increase operational efficiency?
- By adding more people will we be able to get more operational reach?
- Are we compliant, on which layer... application, network?



- Will more management tools increase our control? Or our operational quality?
- Will more security tools decrease our threats ?
- When we develop an application, does it consume from our existing operational best practices?
- By having a single network directory do we simplify application access?

**You can take all of these actions
and only increase complexity !!!**

Applied Governance: A Different Approach Is Needed



People



Process



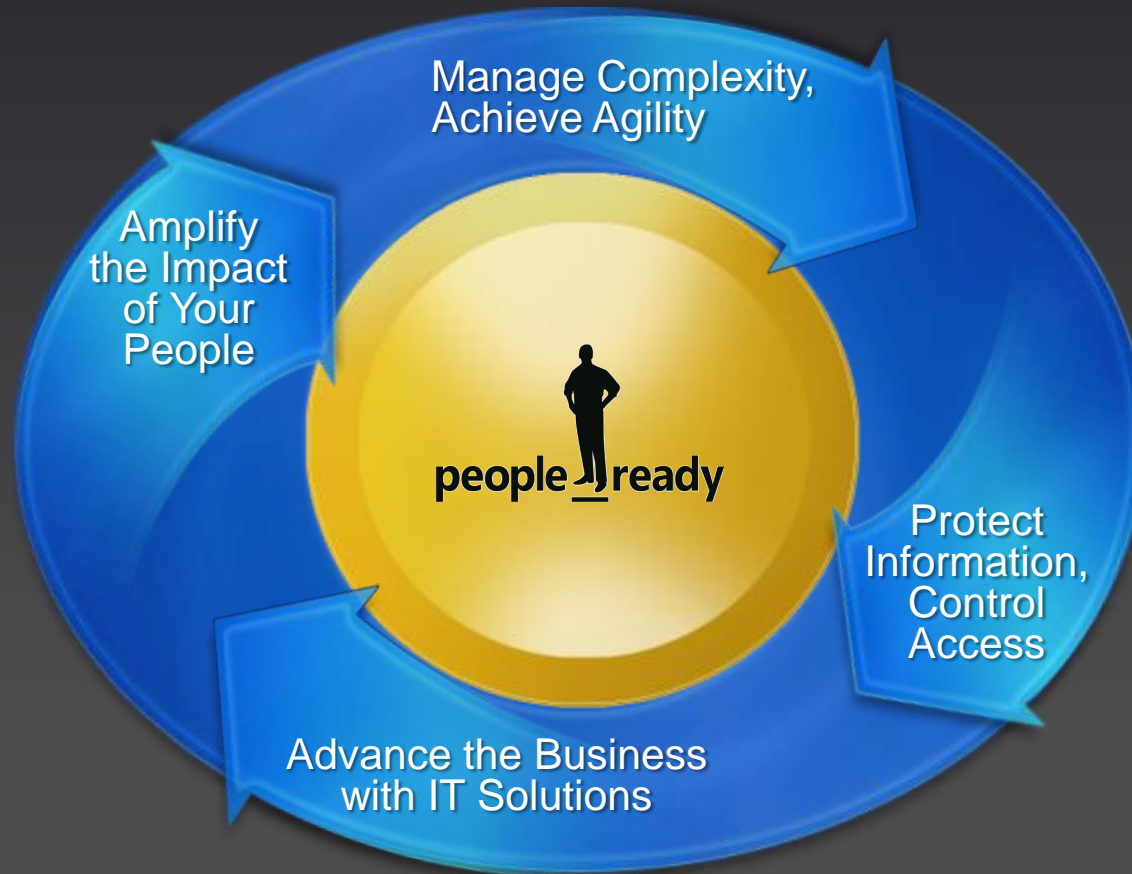
Technology

Operational habits are what deliver results

An approach that...

- » Holistic
- » Addresses existing complexity
- » Creates an integrated, uniform environment
- » Adopts to proven Best Practices
- » Recognizes Role Based Productivity
- » Prioritizes and sequences IT projects in a structured, systematic manner

Dynamic IT for the People-Ready Business



Governing Principles

Dynamic IT infrastructure:

- Easily adapts IT services to changing business needs
- Empowers people with access to information, when they need it
- Automates processes and reduces complexity
- Keeps security and compliance under control
- Optimizes for cost, service levels and agility

Research Approach Leading to Infrastructure Optimization Initiative

Benchmarked IT Departments (breath & depth)

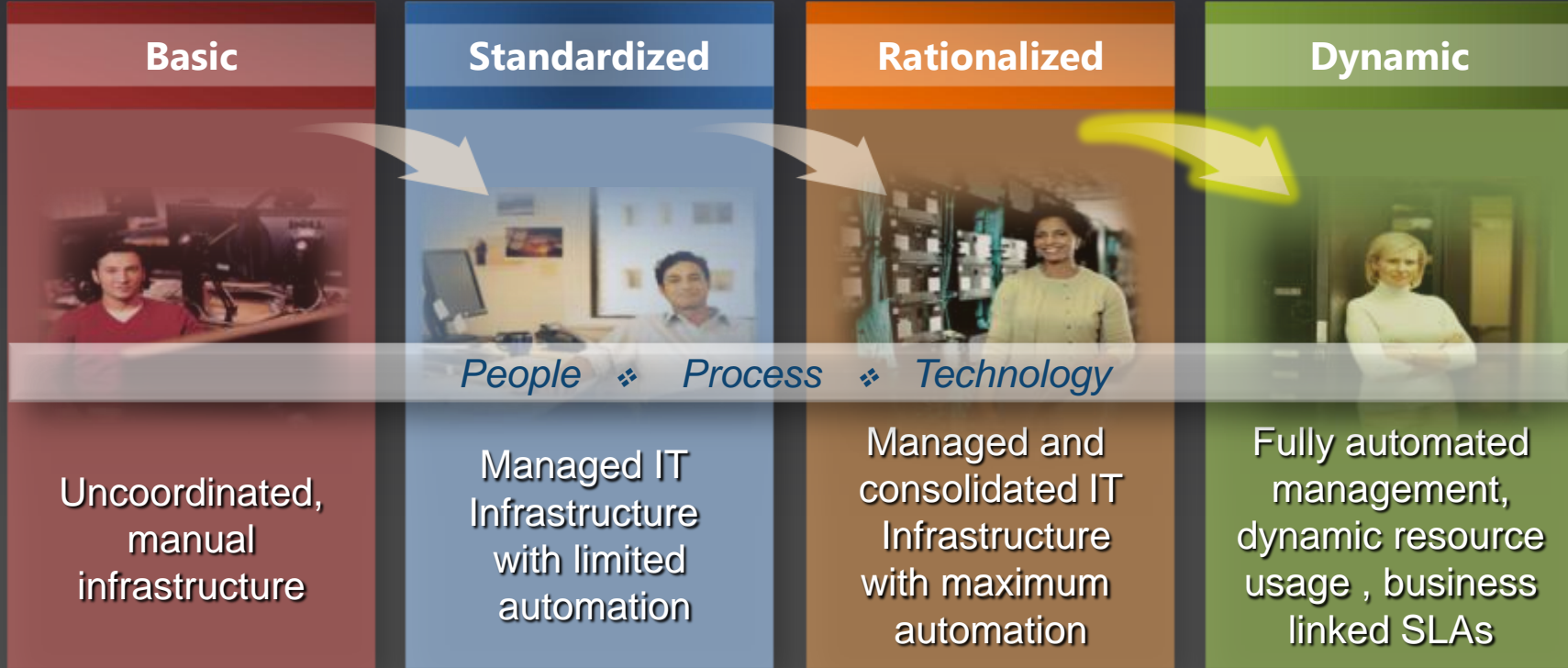
Tracked Assets, IT Processes, Staffing Levels, Service Levels, Agility

Identified Common IT Processes within Top Performers, Best Practices and Quantified IT Labor

Categorized Organizations by Core Infrastructure Optimization level based on the Best Practices adoption

The road to Dynamic IT: Infrastructure Optimization

Infrastructure Optimization is a structured, systematic process of assessing maturity across IT capabilities, then prioritizing projects to progress towards a Dynamic state



Three Infrastructure Optimization Models

IT Governance

- Specifying the decision rights and accountability framework to encourage desirable behavior in the use of IT. (CISR at MIT Sloan Management)
- Five key IT decisions: IT Principles, architectures, infrastructure, application needs and investments. (CISR at MIT Sloan Management)

Core Infrastructure Optimization (Core IO)

- Access & Identity Management
- Desktop, Device, & Server Management
- Security & Networking
- Data Protection & Recovery

IT and Security Process

Core Infrastructure Maturity Level—Basic

Basic



Standardized



Rationalized



Dynamic



Unstructured and lacking central control, infrastructure based on manual processes, ad hoc security and disparate resources

- Inconsistent or non-existent policies for security and compliance
- Unknown health of services due to the lack of tools and resources
- No vehicle for sharing accumulated knowledge across IT
- Environments are extremely hard to control
- Very reactive to security threats
- Software deployments, patches and services are provided through high touch

Core Infrastructure Maturity Level—Standardized

Basic

Standardized

Rationalized

Dynamic



Standards and policies to manage desktops, mobile devices, and servers introduce controls and operational consistency

- Active Directory® is used to manage resources, security policies and network access
- The value of basic standards and policies are recognized but not yet implemented broadly
- Deployments, patches and desktop services are provided at medium touch
- Inventory of hardware and software assets are maintained and license use managed
- Security is improved with a locked down perimeter, though internal security may still be a risk

Core Infrastructure Maturity Level—Rationalized

Basic



Standardized



Rationalized



Dynamic



Costs involved in managing desktops and servers are at their lowest, with integrated IT management policies, tools, and processes

- Security is proactive and response to threats is rapid and controlled
- The use of zero-touch deployment helps minimize cost and time
- Minimal number of desktop images and low-touch management
- Hardware and software inventory is managed, with optimal license use
- Security measures involve strict policies and control

Core Infrastructure Maturity Level—Dynamic

Basic



Standardized



Rationalized



Dynamic



Highly responsive and efficient IT infrastructure; automated processes and flexible resources drive business agility and competitive advantage

- Costs are fully controlled
- Integration between users and data, desktops, and servers; collaboration is pervasive
- Mobile users have nearly on-site levels of service and capabilities
- Processes are fully automated, often incorporated into the technology itself
- Additional investments in technology yield specific, rapid and measurable benefits
- Self-provisioning software and quarantine-like systems allow automated processes

Latin America Financial Sector Analysis

Core Infrastructure Optimization Model Sub Capability Summary				
Business Productivity Infrastructure Optimization Model Summary				
Application Platform Infrastructure Optimization Model Summary				
Application Platform Infrastructure Optimization Model	Total Accounts			
	Basic	Standardized	Advanced	Dynamic
SOA and Business Process				
Process, Workflow & Integration	81%	19%	0%	0%
Data Management				
Custom Line of Business – Data Infrastructure	91%	8%	0%	0%
ISV Line of Business – Data Infrastructure	64%	28%	7%	0%
Relational Data Warehousing	67%	24%	8%	1%
Development				
Development Platform	51%	46%	3%	0%
Software Development Lifecycle (SDLC)	63%	32%	3%	1%
Custom Applications	29%	44%	20%	7%
Business Intelligence(*)				
Performance Management	67%	28%	4%	1%
Report & Analysis	56%	41%	2%	1%
Data Warehousing	52%	22%	18%	8%

256 Financial Institutions Analyzed (>500 Employees)

Benefits of Optimized Core Infrastructure

Control Cost

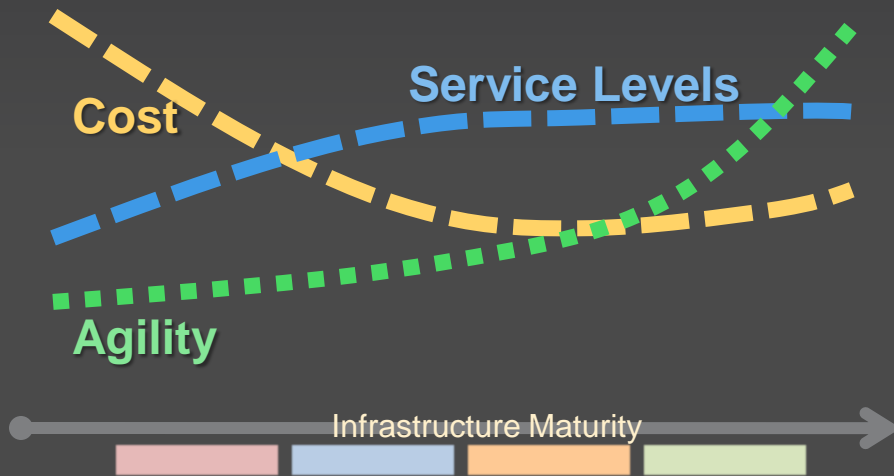
Simplify, automate and centralize IT operations to optimize resource utilization

Improve Service Levels

Integrate management and security tools to maximize system uptime

Drive Agility

Adapt the IT infrastructure rapidly according to business needs



HSBC Mexico – Core IO Progression



5400+ ATMs 1600+ Branches 10+ Sites 2200+ Wintel Servers 28,000+ Employees 23,000+ PC's

ATM Environment Branch Environment Trading Environment Business Environment Desktop Environment Infrastructure Environment

IDENTITY & ACCESS MANAGEMENT DESKTOP, DEVICE & SERVER MANAGEMENT SECURITY & NETWORKING DATA PROTECTION & RECOVERY ITIL / CobIT Based Management Process & Governance SECURITY PROCESS

Service Desk Change Management Release Management Incident Management Problem Management Configuration Management Service Monitoring Service Administration

Customer Satisfaction

HSBC Mexico – Core IO Progression



IDENTITY & ACCESS
MANAGEMENT



DESKTOP, DEVICE
& SERVER
MANAGEMENT



SECURITY &
NETWORKING



DATA PROTECTION
& RECOVERY



ITIL / CobIT Based
Management Process &
Governance



SECURITY PROCESS



Customer Satisfaction

- Users report now less than 2% of all service failures.
- Significant Client Satisfaction Improvement
- "Before, it took us two months to deploy new products. Now, in two days we can deploy whatever we need to the branches or the ATMs. So from a business perspective, IT is no longer a bottleneck."
- "HSBC Mexico estimates that effective management of IT resources will help it support up to 30 percent growth with its existing infrastructure."

Gabriel Pepe, Distributed Systems Director, HSBC Mexico

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Infrastructure Optimization
Explore the progression of IT systems and find guidance for improving your organization. Infrastructure Optimization serves as a gauge for IT organizations and provides a logical roadmap to progress from reactive to proactive IT service management.

Featured Resources

- [What is the Infrastructure Optimization model?](#)
Read the datasheet to find out about how the model works and what its levels mean.
- [Assess your infrastructure and operations](#)
See where you are in the model and get recommendations for how to move to the next level.
- [Learn how to move from Basic to Standardized](#)
Download the Core Infrastructure Optimization Implementer Resource Guide: Basic to Standardized.
- [Learn how to move from Standardized to Rationalized](#)
Download the second of the Core Infrastructure Optimization Implementer Resource Guides: Standardized to Rationalized.
- [Learn how to move from Rationalized to Dynamic](#)
Download the third of the Core Infrastructure Optimization Implementer Resource Guides: Rationalized to Dynamic.

Related Resources

- [Webcast: Take control of your IT infrastructure](#)
- [Microsoft IT Showcase: Infrastructure optimization at Microsoft](#)

White Papers

- [The relationship between IT labor costs and best practices for Systems Management Server](#)
- [Analysis of the business value of Windows Vista](#)
- [The relationship between IT labor costs and best practices for identity and access management with Active Directory](#)
- [The relationship between IT labor costs and best practices for managing the Windows desktop](#)
- [Driving down the cost of the business desktop](#)

What IO Can Do for Business

- [Make IT a strategic asset](#)
- [Streamline the way people do business](#)
- [Deliver a flexible, scalable application platform](#)

Related Links

- [Infrastructure Optimization Blog](#)
- [Microsoft Operations Framework](#)

Partner Resources

- [Infrastructure Optimization Partner Kit](#)
- [Microsoft Partner Program](#)

<http://www.microsoft.com/io>

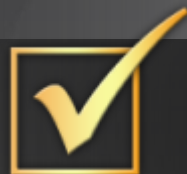
We recommend



Assess your Infrastructure Operational Maturity



Prioritize core infrastructure capabilities for further analysis



Develop an implementation roadmap

Best Practices for Infrastructure Optimization

Papers Located [//www.microsoft.com/technet/io](http://www.microsoft.com/technet/io) (Desktop, AD, & SMS)

Thank you !!!
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Please remember to fill in your evaluations