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Marco Torrìsi

Enterprise Architecture
come strumento di Business
Planning, Alignment &
Investment

Innovate2010

The Rational Software Conference

Let's **build** a smarter planet.



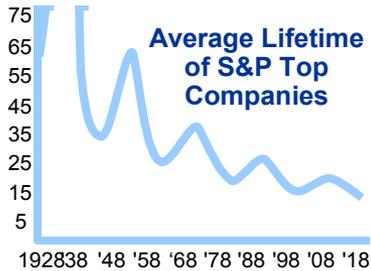
Agenda

- Contesto
- Alcuni esempi di problematiche ricorrenti
- Le soluzioni IBM a supporto del planning and control
- Un approfondimento degli strumenti attraverso un workflow di gestione di nuove iniziative progettuali
 - Alimentare un Repository di EA
 - Mappare lo stato corrente e futuro dell'Enterprise
 - Analizzare e dare priorità alle Iniziative



Scenario evolutivo dell' IT : innovare con una capacita' di spesa sempre piu' ridotta (sia in investimenti che in costi ricorrenti)

Favorire innovazione



Incremento della pressione competitiva richiede di differenziarsi e di farlo sempre piu' velocemente

What the business wants to do!

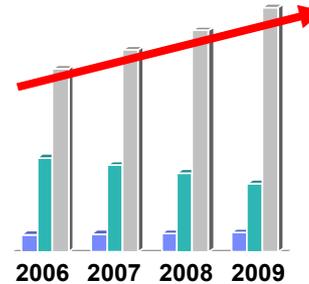
Ridurre costi e rischi



La globalizzazione e l' attenzione degli enti regolatori impongono una maggiore attenzione ad aspetti di efficienza, sicurezza e compliance

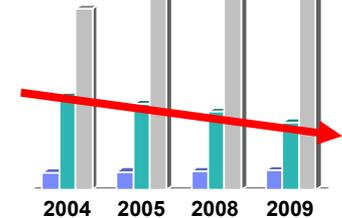
What the business must do!

Costi crescenti nelle operations



aggravati, in alcuni casi, anche da criticita' progettuali che di conseguenza portano a rilavorazioni impreviste

Decrescente capacita' di innovare



dovuta prevalentemente a tagli di budget in un momento in cui sarebbero richiesti investimenti su asset portanti



E' necessario di conseguenza una sempre maggiore attenzione al parco applicativo per ottimizzare i costi operativi e liberare risorse per nuovi progetti. Di seguito alcune delle criticita' piu' ricorrenti

Ridondanza dovuta a fenomeni di acquisizioni, merging, decentralizzazione

Mancanza di visibilita' di metriche e KPI legate al parco applicativo



presenza di applicazioni legacy che non corrispondono piu' alle esigenze di business

Non allineamento alle release correnti dei pacchetti con conseguente aumento dei rischi e dei costi legati alla compliance applicativa

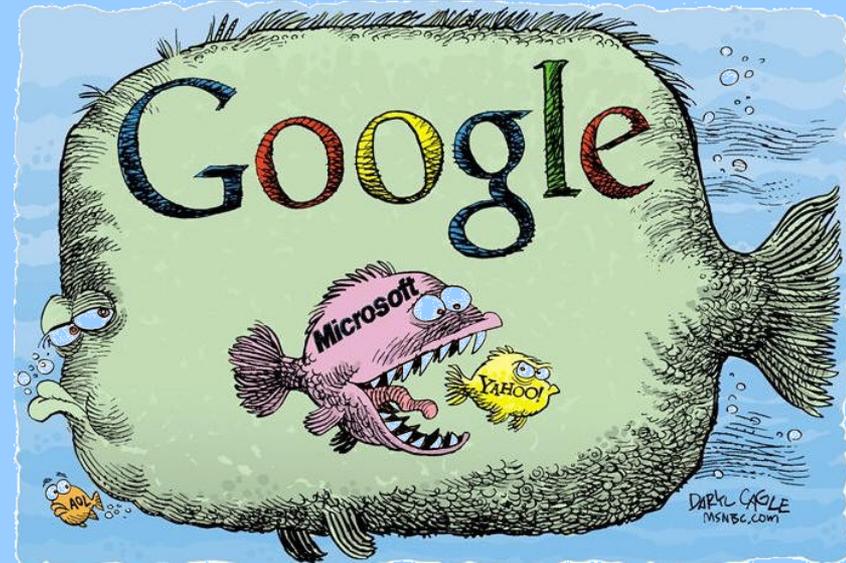
Notevole incidenza dei costi di manutenzione applicativa (70%-80% del Budget IT)



Esempio #1: consolidamento e/o dismissioni di azienda o rami d'azienda (Mergers, Acquisitions & Divestitures)

A fronte di acquisizioni, merging o anche dismissioni e' importante indirizzare due aspetti:

- Valutare e scegliere quali processi/applicazioni/ tecnologie sono allineate agli obiettivi aziendali,
- Valutare quali tra questi sono o possono diventare un asset aziendale: cioe' "contengono" la specificita' dell' azienda (vantaggio competitivo).



Execution Mandates

- **Corporate Strategy:** What are the strategic goal and objectives of the business
- **Inventory:** What technology, Application and solutions do we have?
- **Innovation:** Do we need to change to achieve our enterprise goals? ...and How?
- **Impact:** What impact will these changes have on our customers, the business and our shareholders?
- **Integration:** How will we integrate these organizational and technological changes into the business without disrupting operations?

*CIO Magazine: "State of the CIO Survey" 2007_

Esempio #2: le continue modifiche dell' offerta

(es: cambi di politiche di canale, portafoglio prodotti)_

L' innovazione in questo ambito, negli anni passati e' stata consistente. Ora, per poter continuare con la frequenza, la tempestivita' e l' attesa efficace con cui ci viene richiesto, dovendo procedere a valutazioni in termini di costi, rischi, benefici, e' indispensabile migliorare il processo decisionale a supporto dell' innovazione stessa.

- **Migliorando**
 - Qualita' e quantita' delle informazioni
 - tracciabilita' dell' intero ciclo dell' innovazione (dal preliminare fino alla misurazione del ritorno dell' investimento)
- **Incrementando la confidenza sulle decisioni prese in termini di:**
 - fit-to-market, fit-to-customer e fit-to-strategy
 - trasparenza e condivisione delle scelte,
 - 38 % Improperly value product opportunities
 - 37 % Decision process not based on objective information
 - 25% Poorly defined portfolio decision criteria
 - 21% Unwillingness to stop projects underway

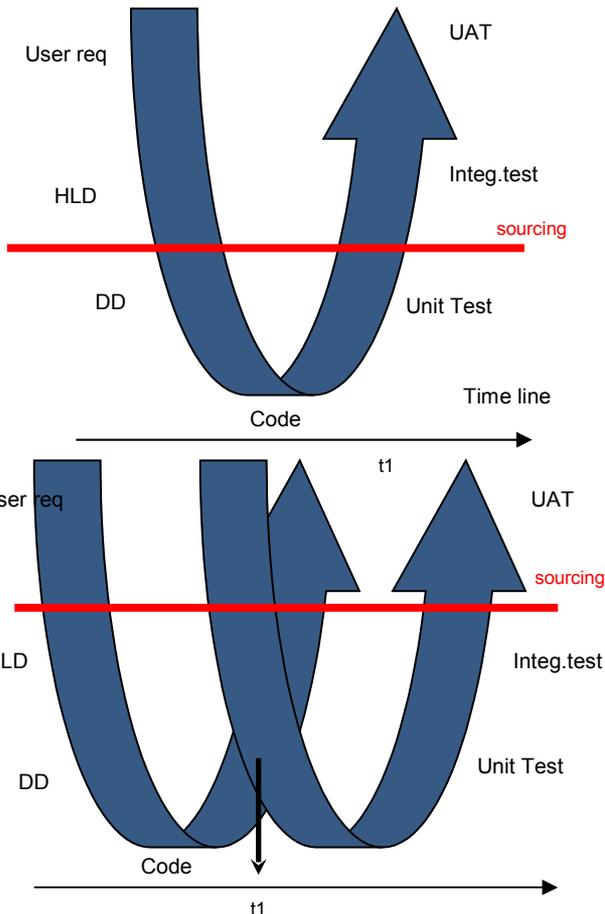


Source: Aberdeen Group, August 2006



Esempio #3: gestione del portafoglio progetti con risorse limitate e budget ridotti

Richiede non solo un' accurata pianificazione ed esecuzione dei progetti , ma anche:



- il continuo adeguamento del delivery, a fronte dei cambiamenti delle esigenze di business, con ripercussioni sul modello di sourcing e di controllo
- l' analisi proattiva dei percorsi progettuali a rischio e nell' individuazione tempestiva delle mitigations
- Il massimizzare la standardizzazione e il riuso di componenti (applicative/tecnologiche e di processo) consolidate: assetizzazione applicativa

"High project failure means you're wasting money, and there's even less tolerance for that in a down economy,"

(Margo Visitacion, VP Forrester Research)

"34% of software projects are deemed successful costing \$300B annually"

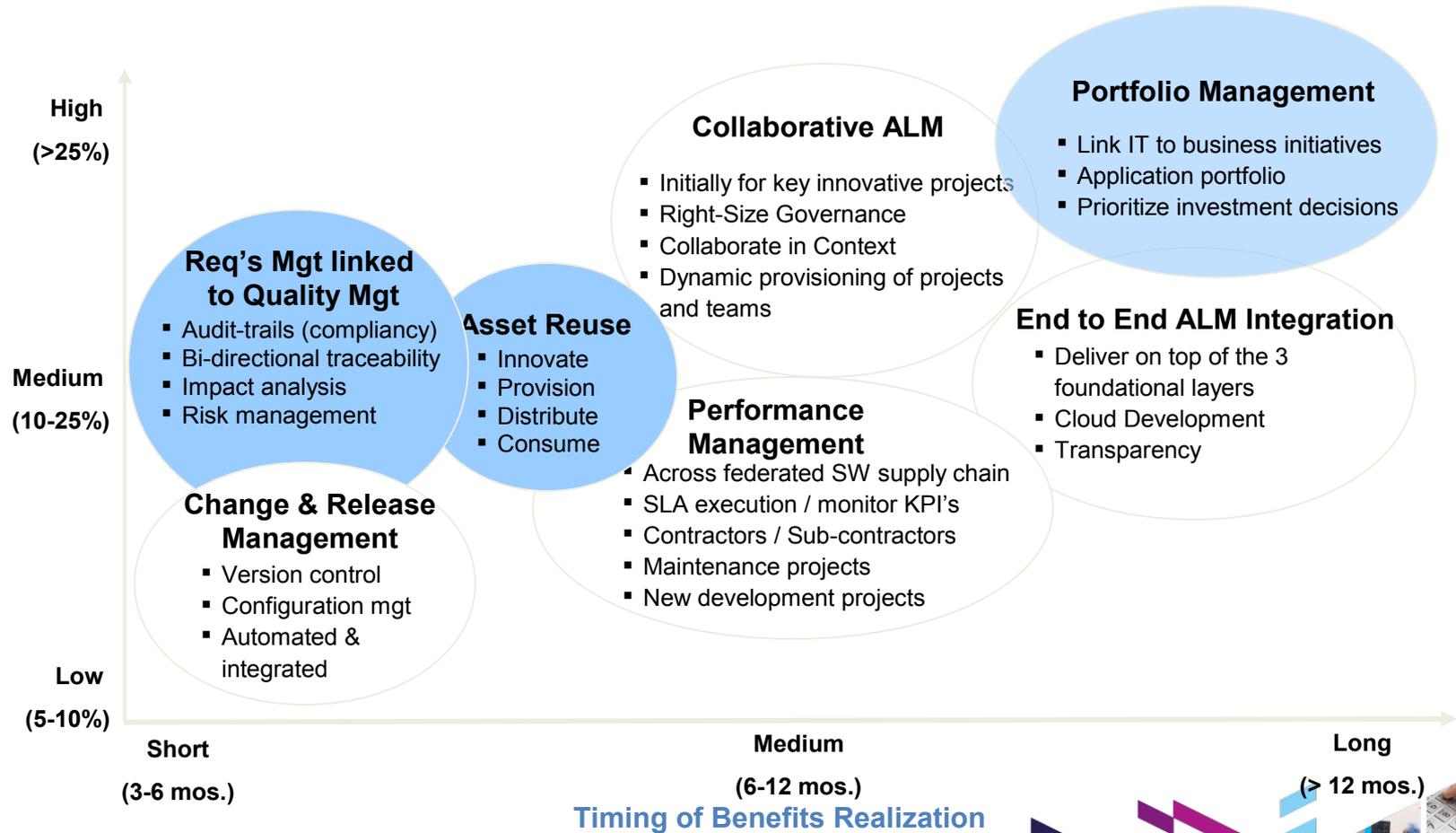
49% of budgets suffer overruns

62% fail to meet their scheduled"



In sintesi, le soluzioni che andremo ora ad illustrare indirizzano problematiche di qualita' e riusabilita' del software e di governance degli investimenti

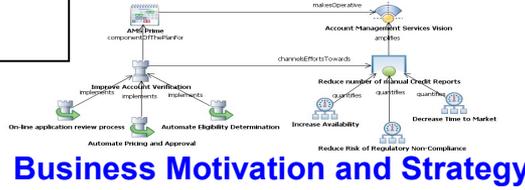
Impact and Timing of Cost Savings Programs



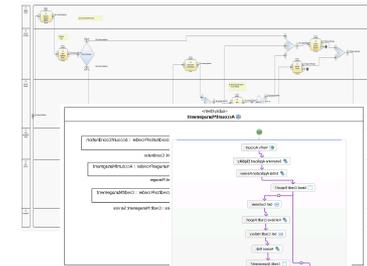
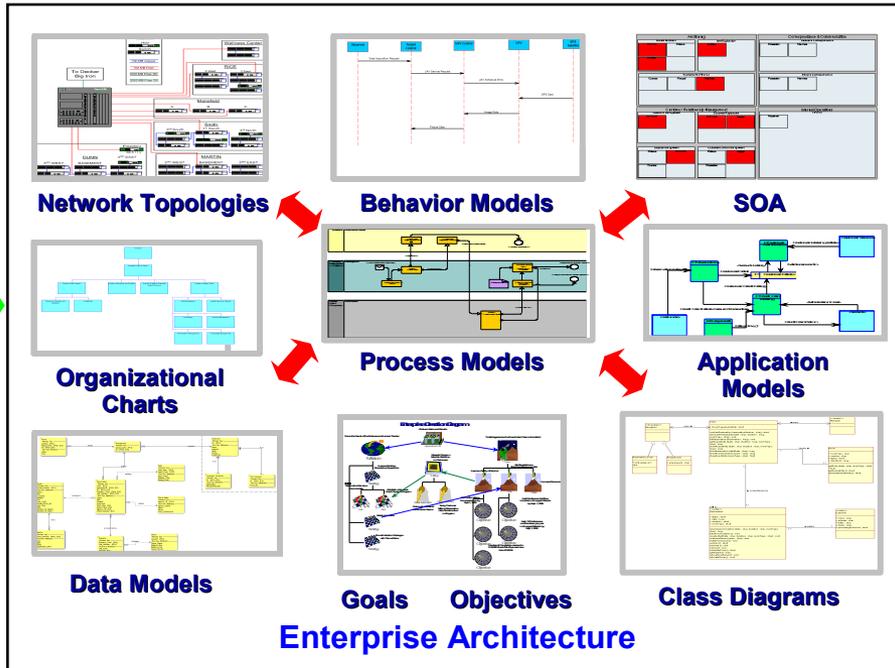
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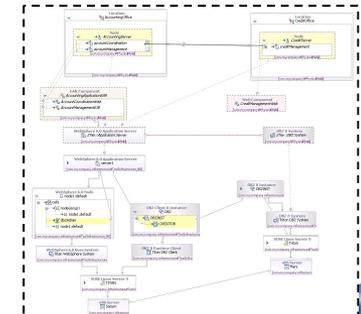
EA Ecosystem



Measurement and Reporting

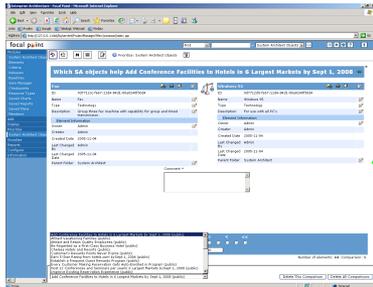


Process & Application Solution Delivery



Operational Modelling

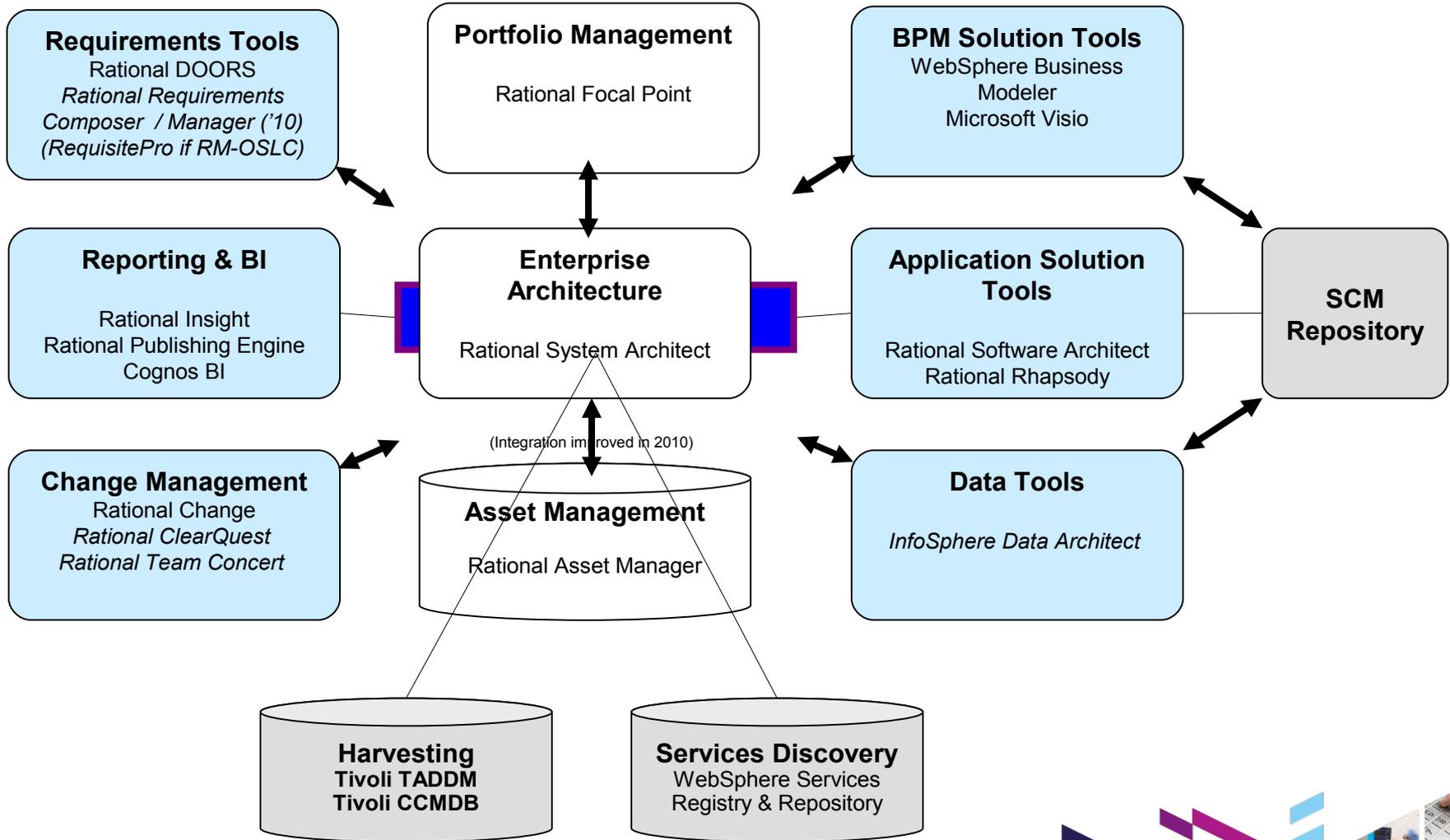
Measured Capability Improvement Framework



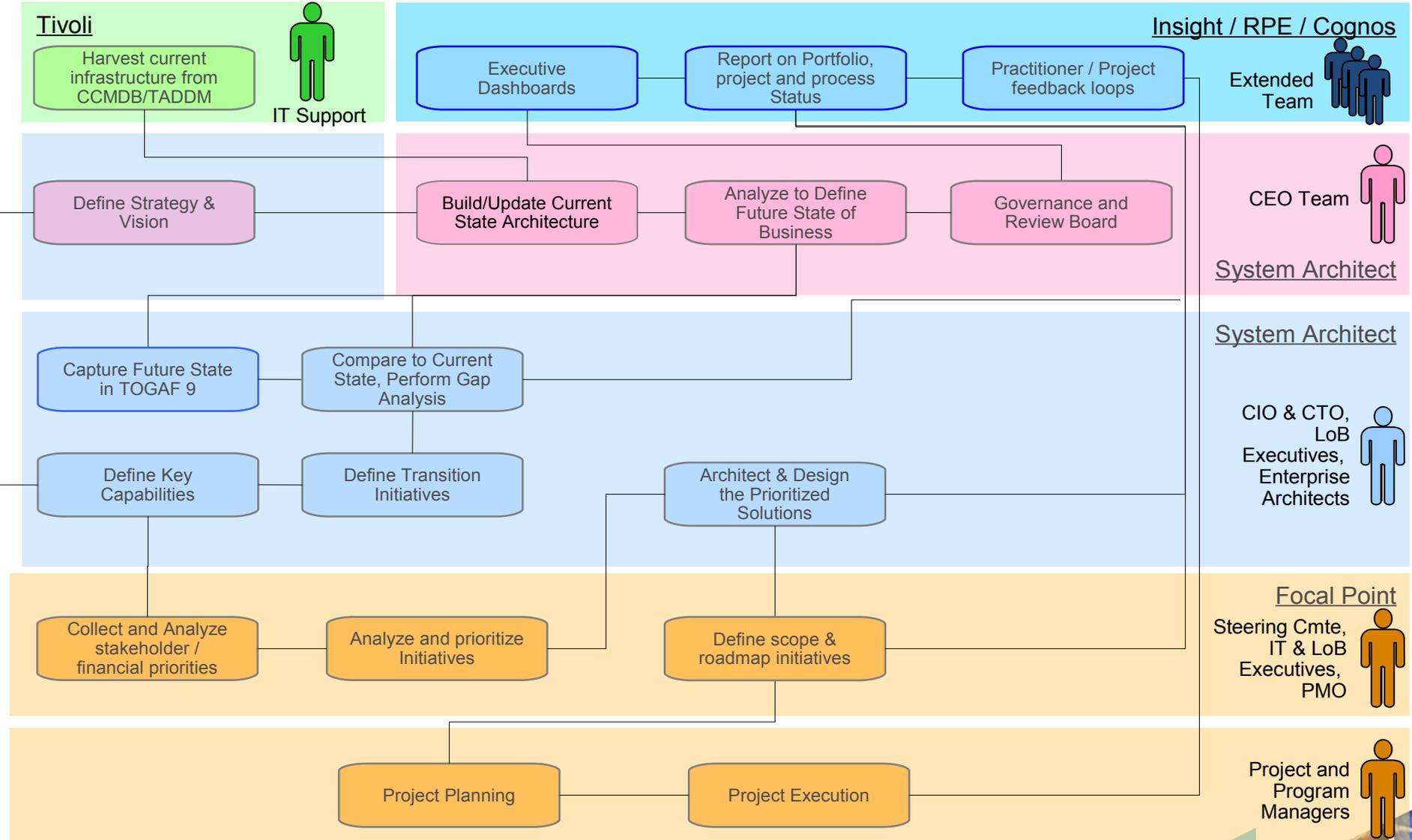
Project and IT Portfolio Management



Strategic planning & EA Management : Integrazioni di Oggi e Domani

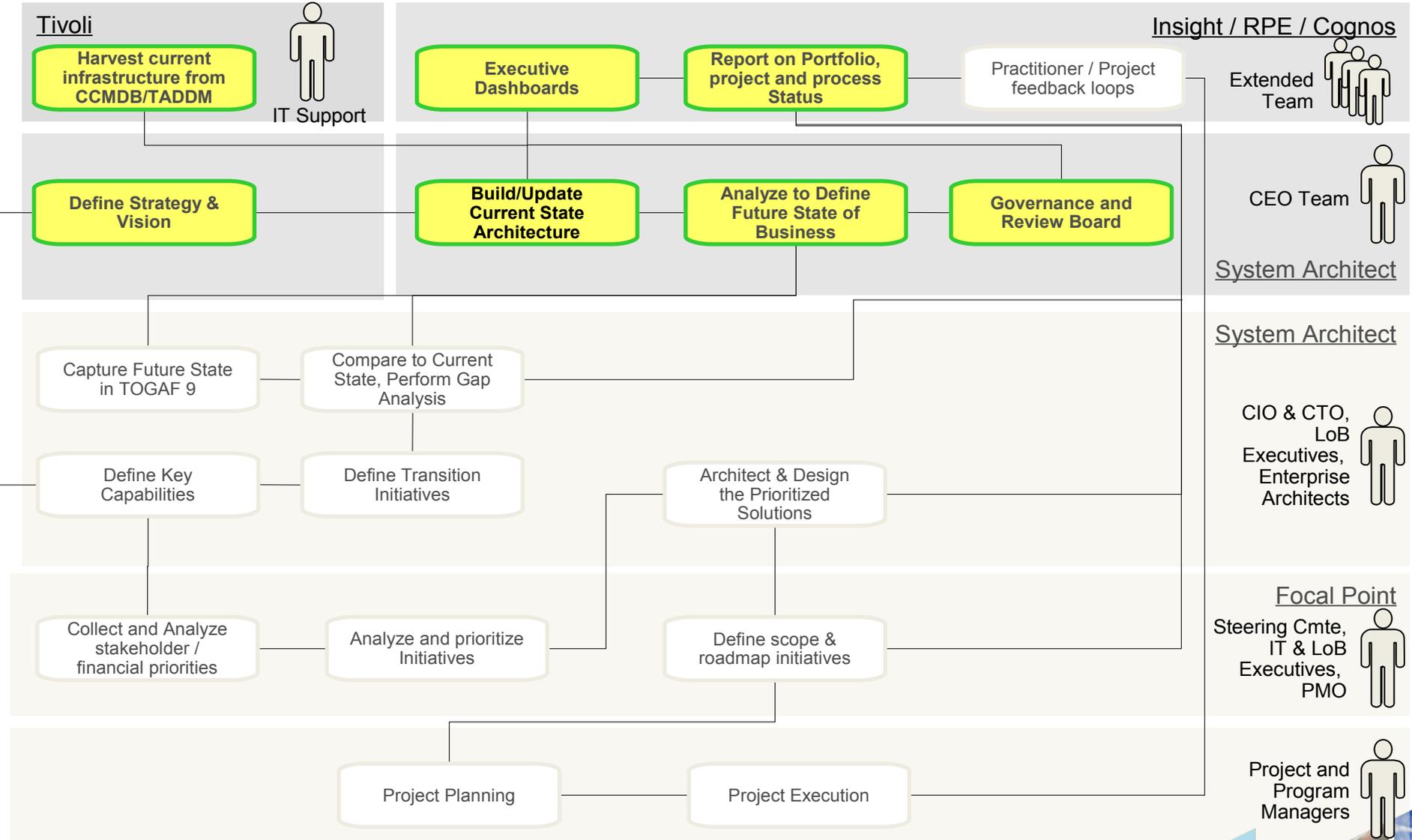


Gestire il Business dell'IT: Workflow



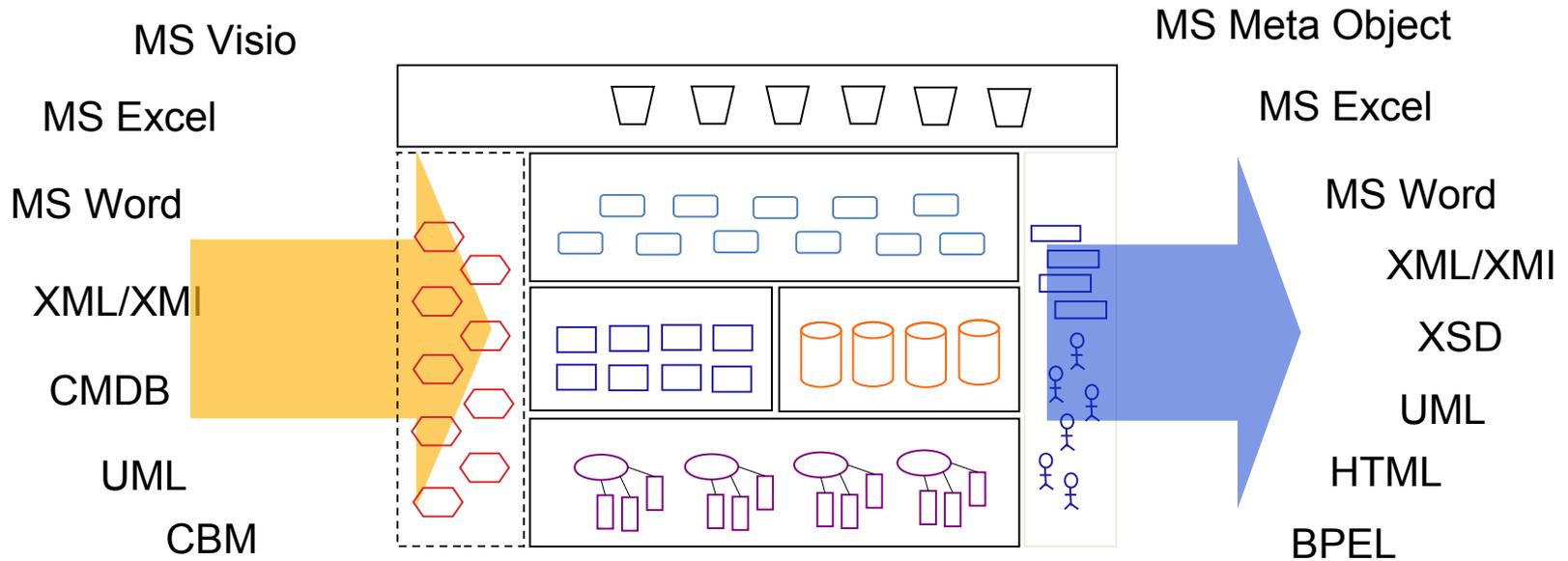
Rational Project Conductor with Integration to delivery

Gestire il Business dell'IT: Workflow



Rational Project Conductor with Integration to delivery

System Architect Repository :
Import/Export facilita lo scambio delle Informazioni



SA è basato su standard industriali e best-practices

Le funzionalità di import di SA aiutano a popolare il DB con info già esistenti

Le funzionalità di export di SA favoriscono il ri-uso e la collaborazione

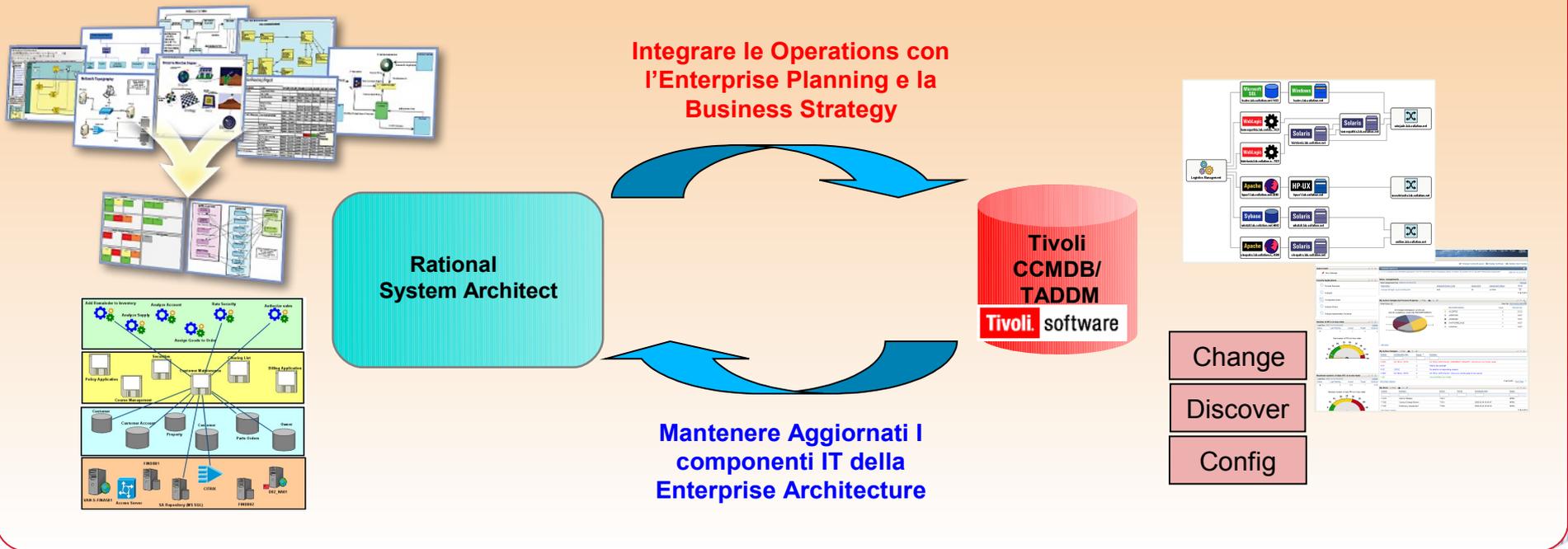


Pianificazione dell'Enterprise e Impact Analysis

- Costruire rapidamente viste di enterprise architecture
 - Identificare, tracciare e aggiornare nella EA nuovi asset provenienti dalle operations
- Comprendere meglio l'impatto del cambiamento sugli stati corrente e futuro dell'architettura
 - Notificare gli architetti velocemente su problemi nelle operations per una veloce risoluzione
 - Ottenere una completa tracciabilità tra le viste architetturali e le informazioni operazionali

Enterprise Architecture e Development

Operations



Definire strategy & vision: Modelli di business motivation

System Architect XT - JK Enterprises Corporate - Windows Internet Explorer

http://localhost:90/saxt/ip/getpage.aspx?ddid=3878

System Architect XT - JK Enterprises Corporate

IBM Rational System Architect XT mowen Updater Refresh | Bookmark | View all sessions | About | Help

Hide Breadcrumbs | Reset

JK ENTERPRISES CORPORATE

Type - Enterprise Direction
Parent Diagram:

Business Motivation Model (Enterprise Direction)

Means	Organization	Ends				
<p style="text-align: center;">Mission</p>	<p style="text-align: center;">JK Enterprises</p>	<p style="text-align: center;">Be vendor of choice in the B2B Market</p>				
<p style="text-align: center;">Governance</p> <table style="width: 100%;"> <tr> <td style="text-align: center;"> SOX Policy </td> <td style="text-align: center;"> Security Policy Business Rule </td> </tr> <tr> <td style="text-align: center;"> ISO20000 Policy </td> <td style="text-align: center;"> GRCS Policy Business Rule </td> </tr> </table>		 SOX Policy	 Security Policy Business Rule	 ISO20000 Policy	 GRCS Policy Business Rule	
 SOX Policy	 Security Policy Business Rule					
 ISO20000 Policy	 GRCS Policy Business Rule					

Pan & Zoom

Wireless USB

Mappare lo stato corrente di Architetture IT e di Business

The image displays a screenshot of the IBM Rational System Architect XT software interface. The main window shows a business process diagram for 'SALES CREDIT' with various steps like 'Regional Sales', 'Sales Manager', and 'Credit Management Service Manager'. A 'Terminal Server / CITRIX' icon is overlaid on the diagram. To the right, a network architecture diagram shows a 'Desktop Client' connected to an 'SA Repository (MS SQL)', which is connected to a 'License Server' and a 'System Architect Server'. The 'License Server' is also connected to an 'SA XT' server, which is connected to the 'Internet'. A 'Program tree view' is shown at the bottom right, displaying a hierarchy of components including 'QAD01', 'QAD09', 'DELAY', 'ERR', 'MASTER', 'ORDST', 'PARM', and 'TRANS'. A 'Bulletin Board' window is open in the foreground, displaying system messages and a 'Number of active Changes' pie chart.

SA FOOTPRINT
Type - Network Concept

SA Footprint (Network Concept)
System Architect
Wed Feb 20, 2008 20:59
Comment

Number of active Changes (By PMSCHPROGRESS)

PMSCHPROGRESS	Value	Percent (%)
ACCEPTED	87	55.06
APPROVED	8	5.06
ASSESSED	8	5.06
IMPLEMENTED	10	6.33
WAITFORRELEASE	14	8.86
Undefined	31	19.62

Report sul portfolio dei progetti e dei processi

Rational Focal Point Workspaces | Home | Preferences | Simon Vaughan | Help | Log Out

Demo - Application Portfolio Management

Welcome to the Focal Point Application Portfolio Assessment (APA) Demonstration

Application Name	Business Strategy Alignment	Criticality	Reliability	Availability	IT Strategy Alignment	Architectural Fit	Total Score	Recommended Classification
A0001:WAS	7 - High	10 - Very High	7 - High	4 - Medium	7 - High	10 - Compliant	45	Gold
A0002:OracleAS InterConnect	7 - High	7 - High	4 - Medium	4 - Medium	7 - High	10 - Compliant	39	Silver
A0003:Salesforce.com CRM	10 - Very High	10 - Very High	4 - Medium	7 - High	10 - Very High	10 - Compliant	51	Blue
A0004:MS Office 2007	7 - High	7 - High	7 - High	10 - Very High	7 - High	10 - Compliant	48	Blue
A0006:PnC 6000	10 - Very High	4 - Medium	4 - Medium	4 - Medium	1 - Low	10 - Compliant	33	Blue
A0007:IRIS Exchequer	7 - High	4 - Medium	4 - Medium	1 - Low	1 - Low	10 - Compliant	27	Blue
A0008:APBackup	4 - Medium	4 - Medium	7 - High	10 - Very High	4 - Medium	1 - Non Compliant	30	Blue
A0009:Microsoft Publisher 2010	10 - Very High	4 - Medium	4 - Medium	10 - Very High	4 - Medium	10 - Compliant	42	Blue
A0010:Oracle BI Publisher	7 - High	4 - Medium	7 - High	4 - Medium	7 - High	1 - Non Compliant	30	Blue
A0011:Tivoli Access Manager	7 - High	10 - Very High	7 - High	7 - High	10 - Very High	10 - Compliant	51	Gold
A0012:Lotus Notes 8.5	7 - High	10 - Very High	7 - High	10 - Very High	4 - Medium	10 - Compliant	48	Blue
A0013:CYMAIV Financial Management System	7 - High	4 - Medium	7 - High	7 - High	4 - Medium	1 - Non Compliant	30	Blue
A0014:Platform Contact Manager	7 - High	4 - Medium	4 - Medium	1 - Low	4 - Medium	10 - Compliant	30	Blue
A0015:Tivoli Identity Manager	7 - High	7 - High	7 - High	4 - Medium	7 - High	10 - Compliant	42	Silver
A0016:Sharepoint Server 2007	4 - Medium	4 - Medium	4 - Medium	4 - Medium	4 - Medium	10 - Compliant	30	Bronze
A0017:Field service management (FSM)	7 - High	7 - High	4 - Medium	1 - Low	7 - High	10 - Compliant	36	Bronze
A0018:Adobe Acrobat	7 - High	1 - Low	10 - Very High	7 - High	1 - Low	10 - Compliant	36	Blue
A0019:Amdocs Billing	7 - High	4 - Medium	7 - High	4 - Medium	1 - Low	1 - Non Compliant	24	Gold

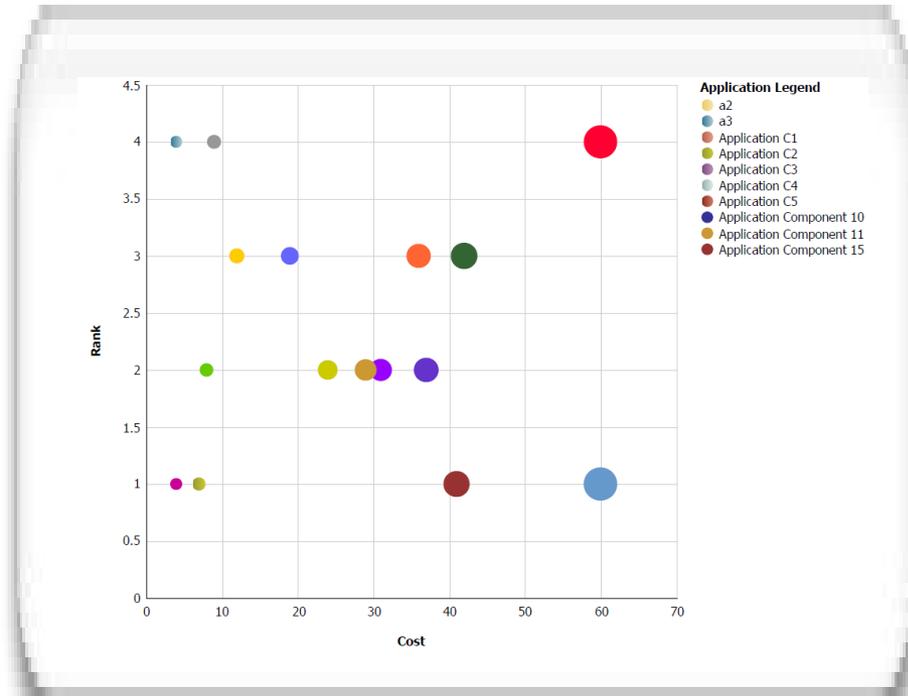
IBM. Rational software

Done Internet | Protected Mode: On 100%

Business Analysis dello stato corrente: *Rispondere a domande sull'AS-IS*

- Quali sono le priorità del Business?
- Quali assets di business/tecnologici abbiamo?
- Cosa è non necessario, ridondante o obsoleto?
- Dove possiamo ridurre i costi?
- Quali processi di business sono bene eseguiti?
- Come sono stabilite e comunicate le priorità di progetto..? A che livello?

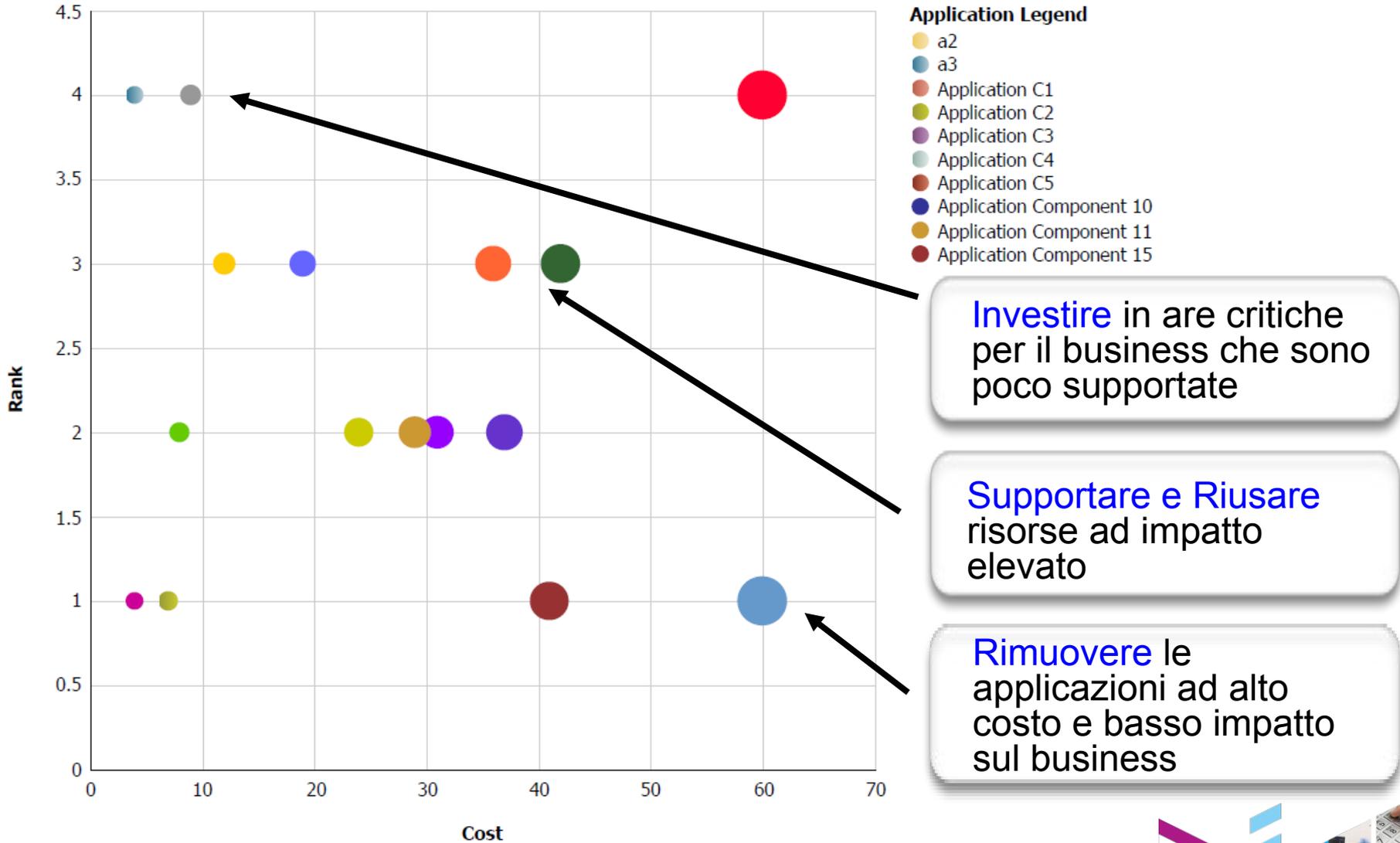
Quanto bene operiamo oggi?



“per ogni \$1 di spese discrezionali (es. Nuovi progetti e grossi cambiamenti), in genere fino a \$5 vengono spesi per il supporto, la maintenance e l’infrastruttura durante il ciclo di vita di una applicazione”

Gartner Group

Business Analysis dello stato corrente: System Architect può oggi fornire risposte ancora più potenti



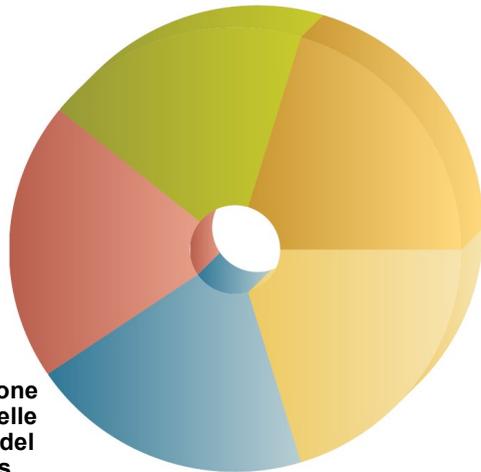
Investire in are critiche per il business che sono poco supportate

Supportare e Riusare risorse ad impatto elevato

Rimuovere le applicazioni ad alto costo e basso impatto sul business



Pianificare le direzioni future e identificare le future aree di innovazione: *Dettagliato reporting su dipendenze e indirizzi del business*



EA Domain Legend

- Business Unit 1
- Business Unit 2
- Business Unit 3
- Business Unit 4
- Business Unit 5

Report sul business status, e costruire un piano di change

Drill down su specifici dettagli della business architecture

Mappare le business functions per supportare ruoli, locations e tecnologie

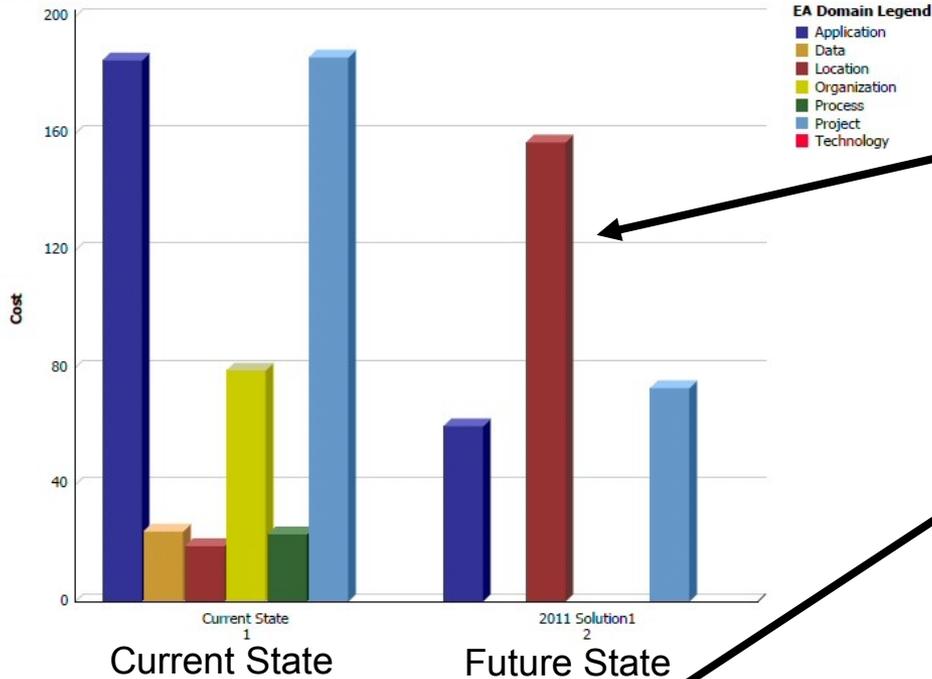
Business Service Name	Description	Stereotype	Is Owned by Organization Unit	Is Governed by Organization Unit	Consumed by Actor
Account Administration		Business Service Depiction	Accounts		Customer Services Representative
Archive Account		Business Service Depiction	Accounts		
Assess Risk		Business Service Depiction	Finance		Sales Manager, Customer Services Representative
Campaign launch control		Business Service Depiction	Marketing		Marketing Manager
Campaign Management		Business Service Depiction	Marketing		Marketing Manager

Business service dependency on Technology Components

Name	Identity	WorkspaceId	Description	Name	Identity	WorkspaceId	Description	Hosted at Location
BS1	1	1		1	1	1		

Pianificare ed Eseguire le Trasformazioni: Cognos reporting visualizza meglio I rischi e l'impatto dei cambiamenti

Select chart type
Select Workspace



Comparare stato corrente e futuro dell'architettura (tra varie workspace di SA)

Identificare l'impatto dei cambiamenti proposti

Evitare i rischi durante le trasformazioni

Impact Analysis Details				Related Issues				
WorkspaceId	Name	Identity	Description	WorkspaceId	Identity	Name	Issue Type	Priority
1	Impact1	1		1	1	Issue1		High
	Impact2	2		2	3	Issue3		High
2	Impact3	3		1	2	Issue2		Medium

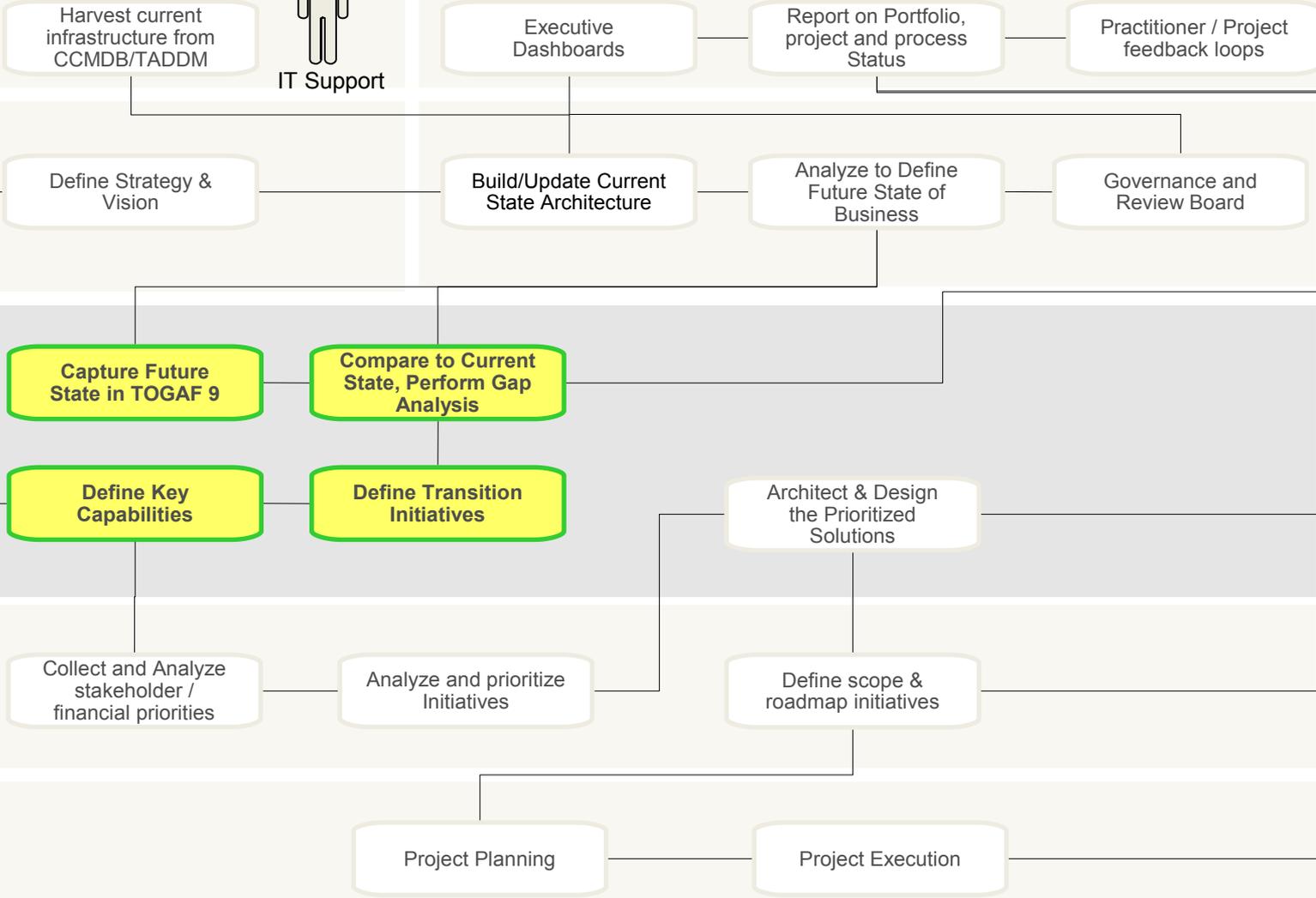
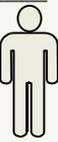
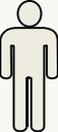
Le criticità sono evidenziate con colori in base alla severità



Gestire il Business dell'IT: Workflow

Tivoli

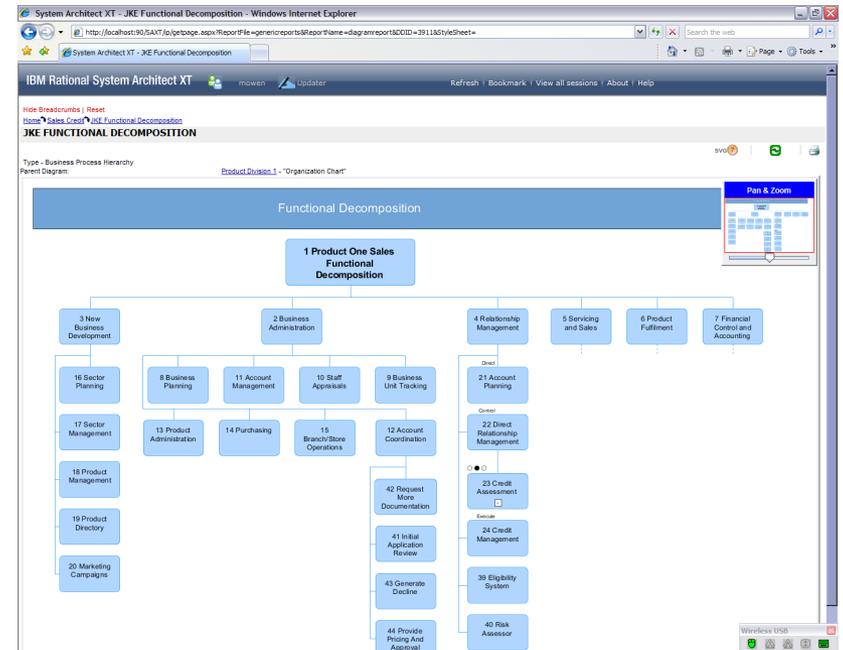
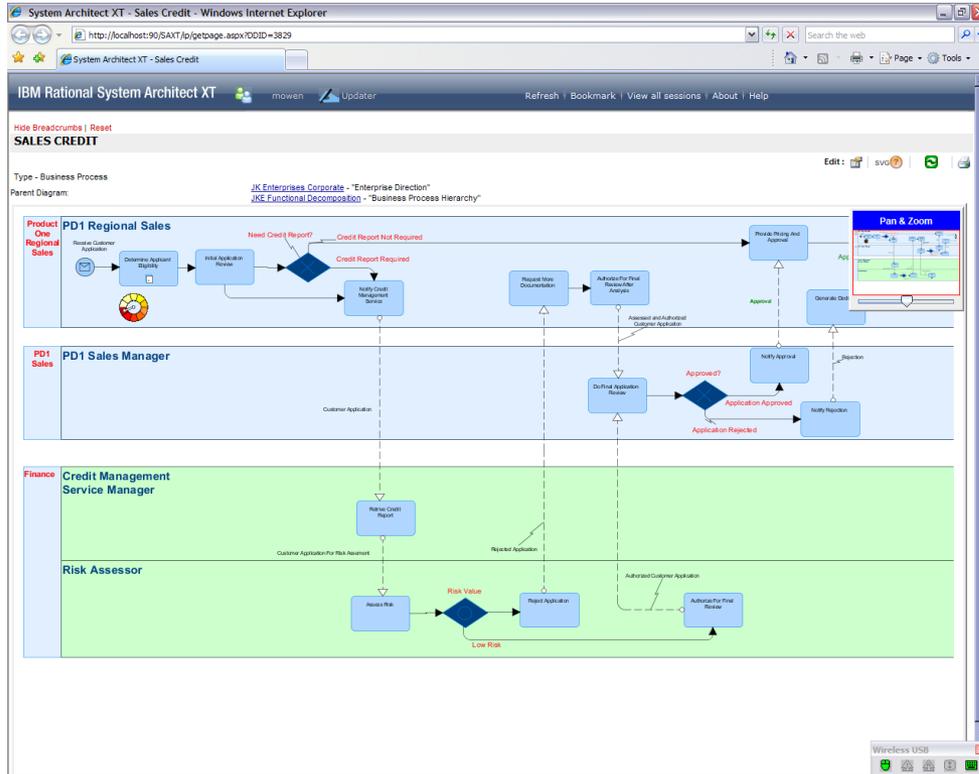
Insight / RPE / Cognos



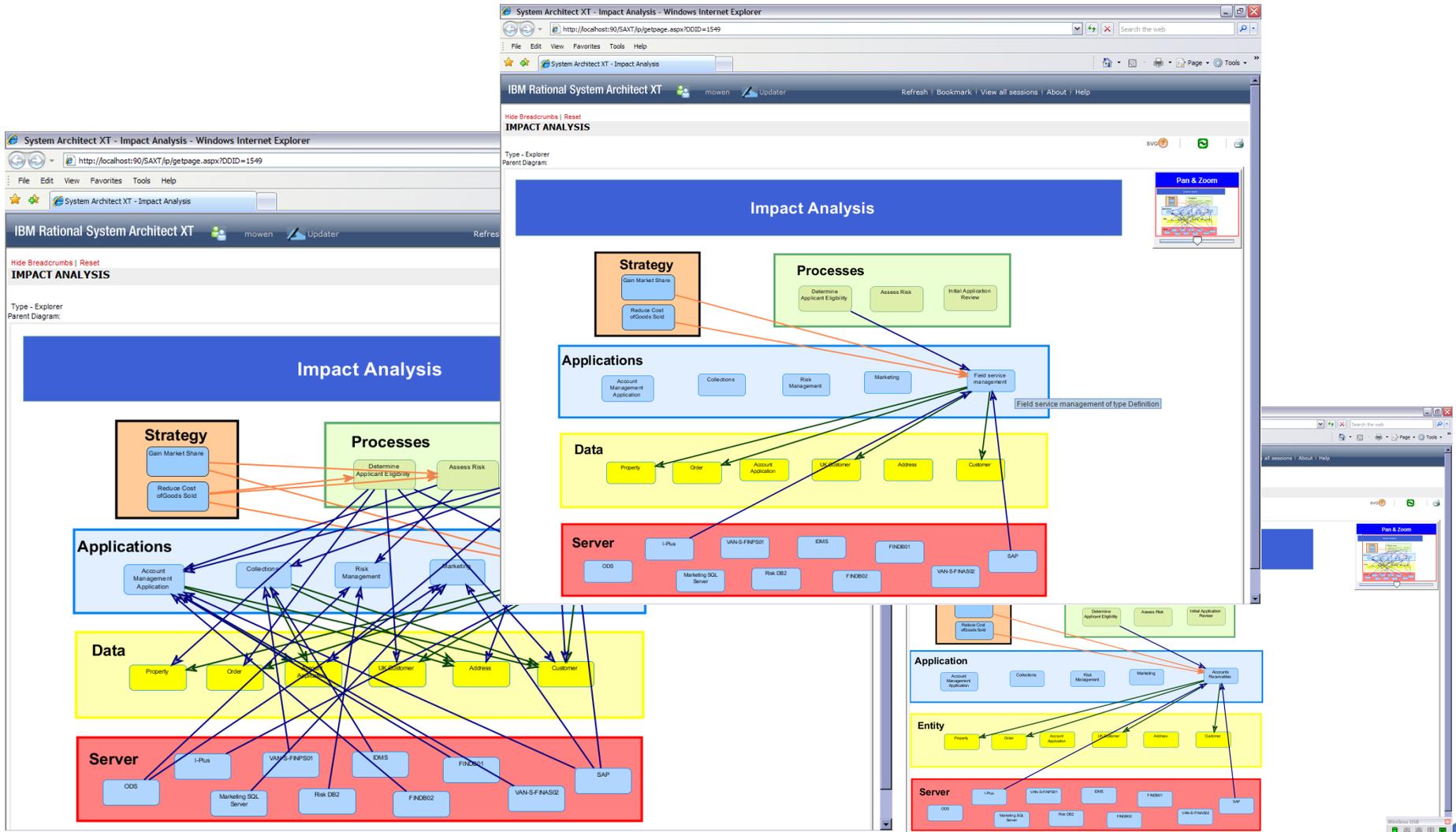
- Extended Team
- CEO Team
- System Architect
- System Architect
- CIO & CTO, LoB Executives, Enterprise Architects
- Focal Point Steering Cmte, IT & LoB Executives, PMO
- Project and Program Managers

Rational Project Conductor with Integration to delivery

Definire lo Stato Futuro



Comparare con lo stato corrente, svolgere gap analysis



Definire iniziative di cambiamento

System Architect XT - JK Enterprises - Windows Internet Explorer

http://localhost:90/SAXT/p/getpage.aspx?ddid=1030

File Edit View Favorites Tools Help

System Architect XT - JK Enterprises

IBM Rational System Architect XT mowen Reader Refresh | Bookmark | View all sessions | About | Help

Hide Breadcrumbs | Reset

Home > APM > JK Enterprises

JK ENTERPRISES

Type - Business Process

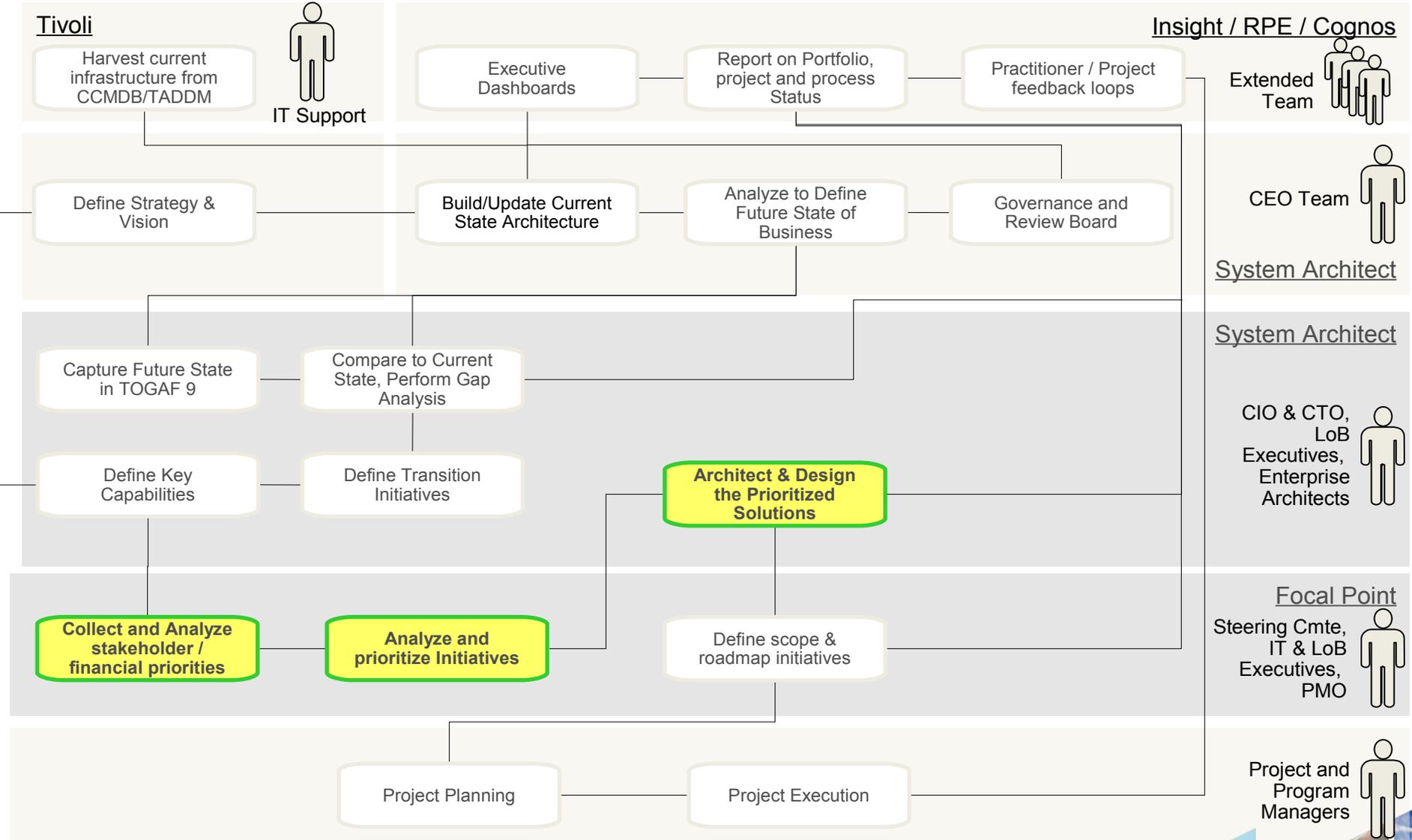
Parent Diagram:

JK Enterprises					
Business Administration		New Business Development		Relationship Management	
Business Planning	Business Unit Tracking	Sector Planning	Sector Management	Account Planning	Direct Relations
Staff Appraisals	Account Management	Product Management	Product Directory	Credit Assessment	Credit M
Account Coordination	Product Administration	Marketing Campaigns			
Purchasing	Branch/Store Operations				
Servicing and Sales		Product Fulfillment		Financial Control and Accounting	
Sales Planning	Sales Management	Fulfillment Planning	Fulfillment Monitoring	Portfolio Planning	Compliance
Sales	Customer Service	Execute Product Fulfillment	Document Management	Reconciliation	Customer Accounts
Collections				General Ledger	

Key

- High Capital
- Low & Capex/High Cost
- Low & Capex/High Return
- High & Capex/High Return
- High & Capex/Low Return

Gestire il Business dell'IT: Workflow



Rational Project Conductor with Integration to delivery

Collezionare ed analizzare priorità finanziarie e degli stakeholder

Which application is more effective for processing applications?

Call Center Application

Application

ID: 008

Title: Call Center Application

State: Upgrade needed

Type: Internal

Description

Application Description: System for call centers to manage customer in-bound and out-reach communications on the phone. Integrates with CALM, Customer On-Line Access, and Marketing and Promotions systems.

Comments: Admin 2010-02-17 16:37: Needs to be updated now to include more web and chat capabilities.

Attachments: Application Software.doc (29 KB)

Application Owner: Sofia

Business Units: Commerce

Department: Department 1

Sponsoring Organization: Marketing department

Business

Application Dates

Usage

Scorecard

Liability: 7 - High

Reliability: 7 - High

Availability: 7 - High

Architectural Fit: 10 - Compliant

Loan Servicing

Application

ID: 010

Title: Loan Servicing

State: In production

Type: Internal

Description

Application Description: Loan servicing application.

Comments: -

Attachments: Application Software.doc (29 KB)

Application Owner: Harald

Business Units: Operations, Commerce

Department: Department 2, Department 3

Sponsoring Organization: -

Business

Application Dates

Usage

Scorecard

Liability: 10 - Very High

Reliability: 7 - High

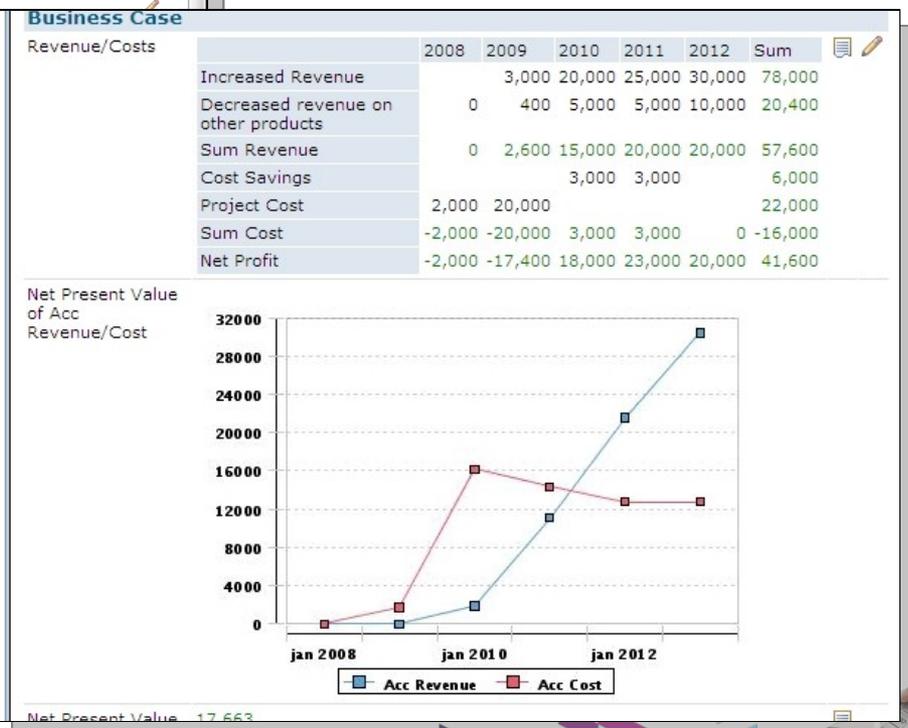
Availability: 4 - Medium

Architectural Fit: 10 - Compliant

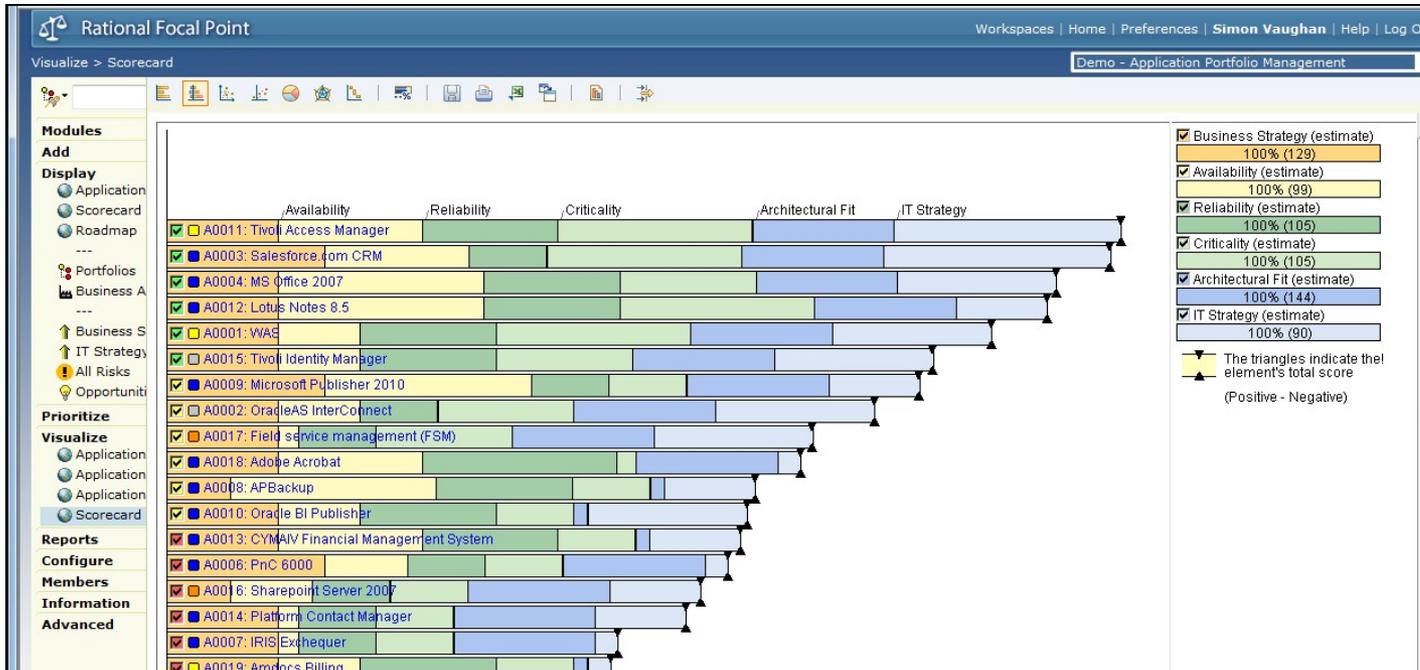
Total Score: 31

Completed: 38. Required: 16. Recommended: 35. Number of f

Criterion: Effectiveness (public) [Delete This Comparison] [Delete All Comparisons]



Analizzare e dare priorità alle iniziative



System View

Application Versions	Versions	Vendor Support Starts	Vendor Support Ends	Strategy
	WAS 3	15/04/08	15/04/08	Upgrade
	WAS 4	23/06/08	24/06/08	Upgrade
	WAS 5.0	04/09/08	05/09/08	Upgrade
	WAS 5.1	28/11/08	30/11/08	Upgrade
	WAS 6.0	28/03/09	08/04/09	Upgrade
	WAS 6.1	11/05/09	13/06/09	Active
	WAS 7.0	17/10/09	22/11/09	Future

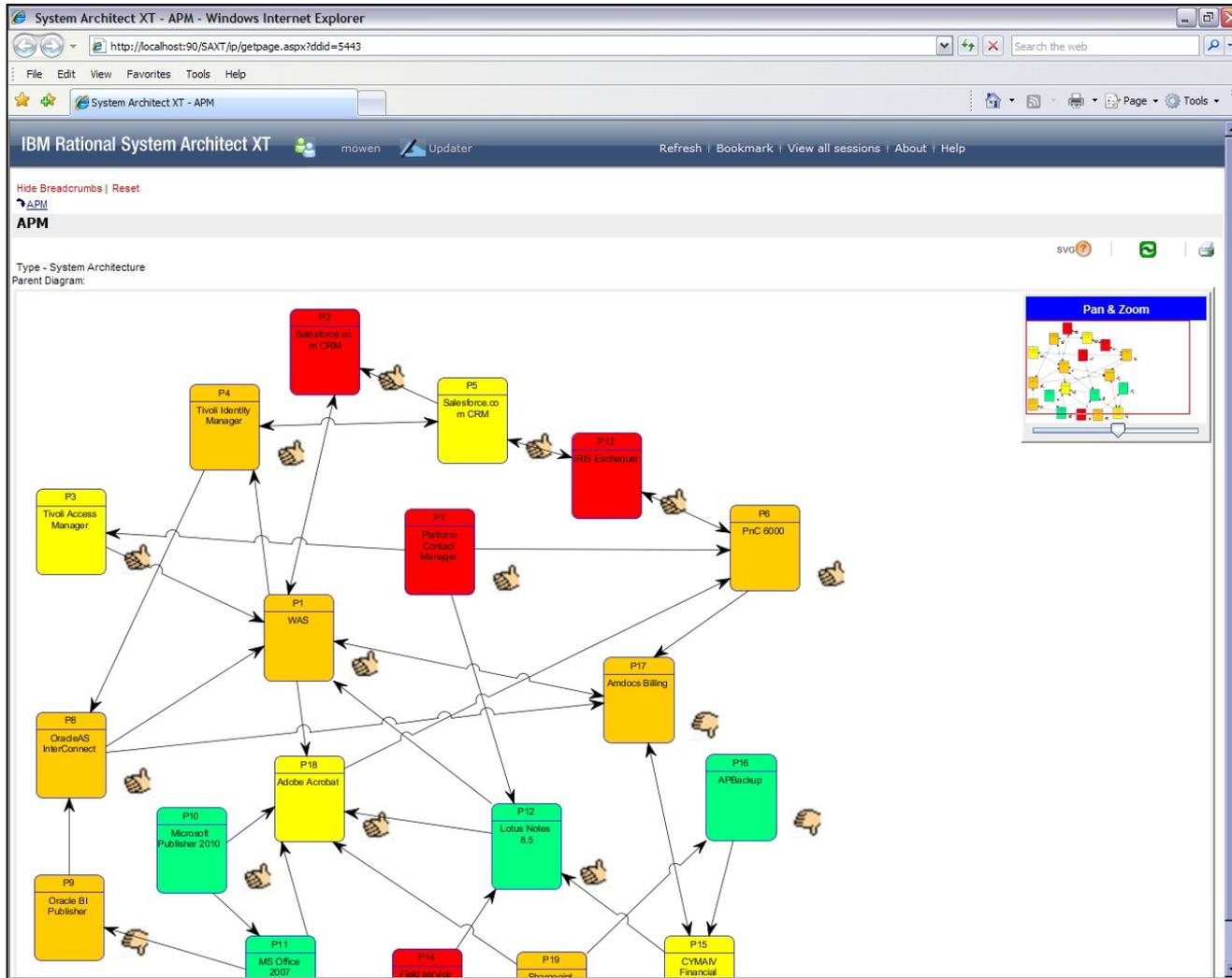
Business Criticality

Number of Application Users: 4,000

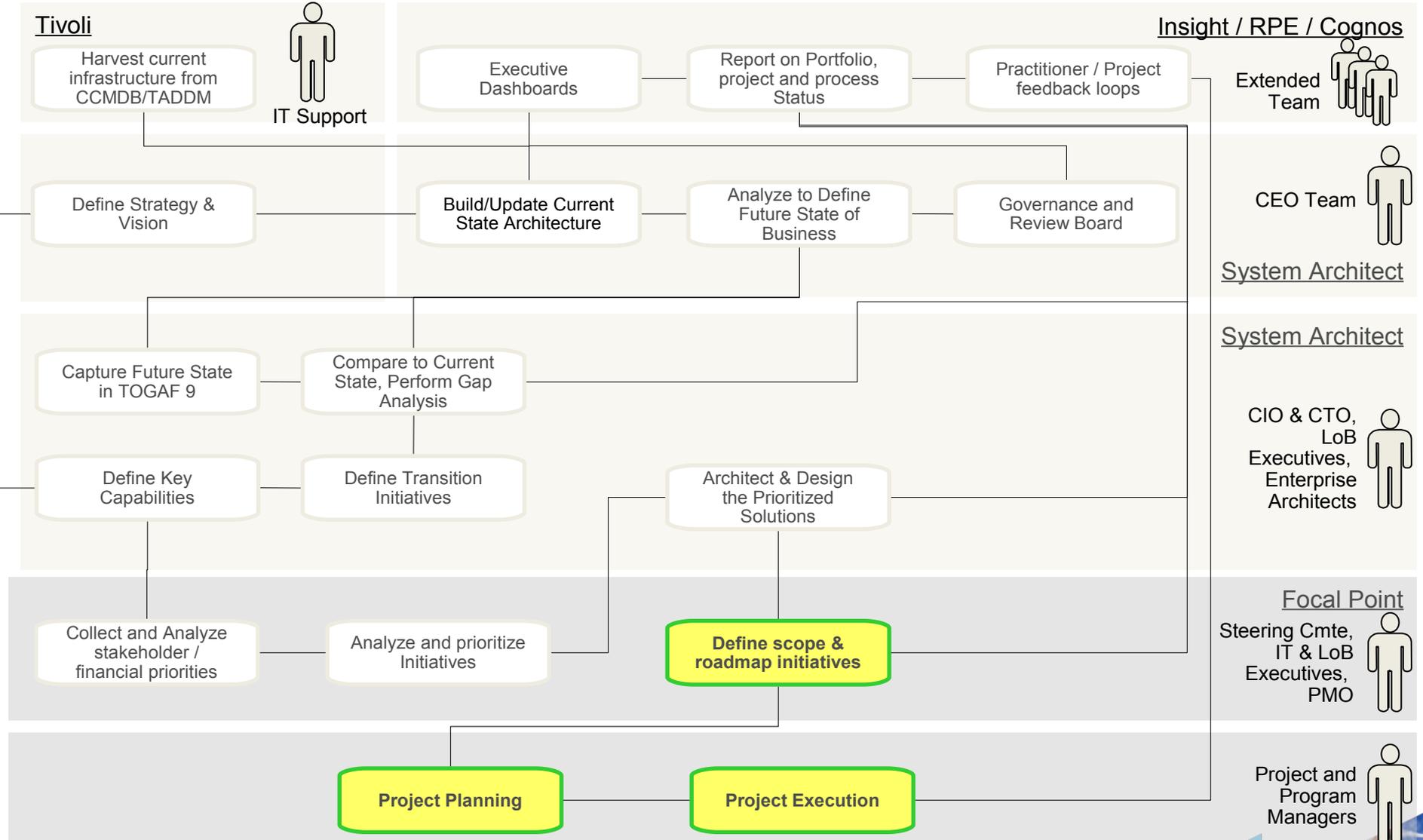
24/7 Support: Yes



Gestire e visualizzare le soluzioni scelte

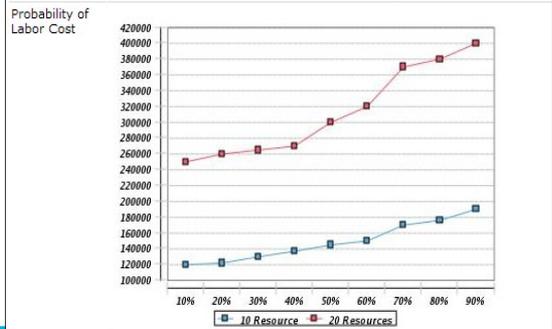
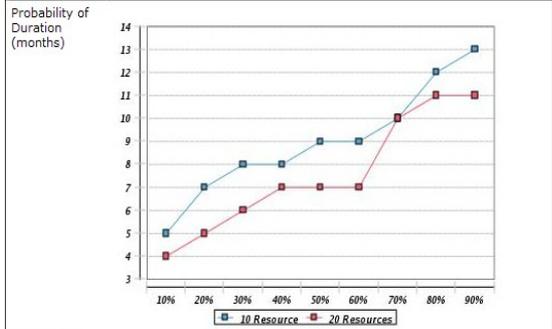
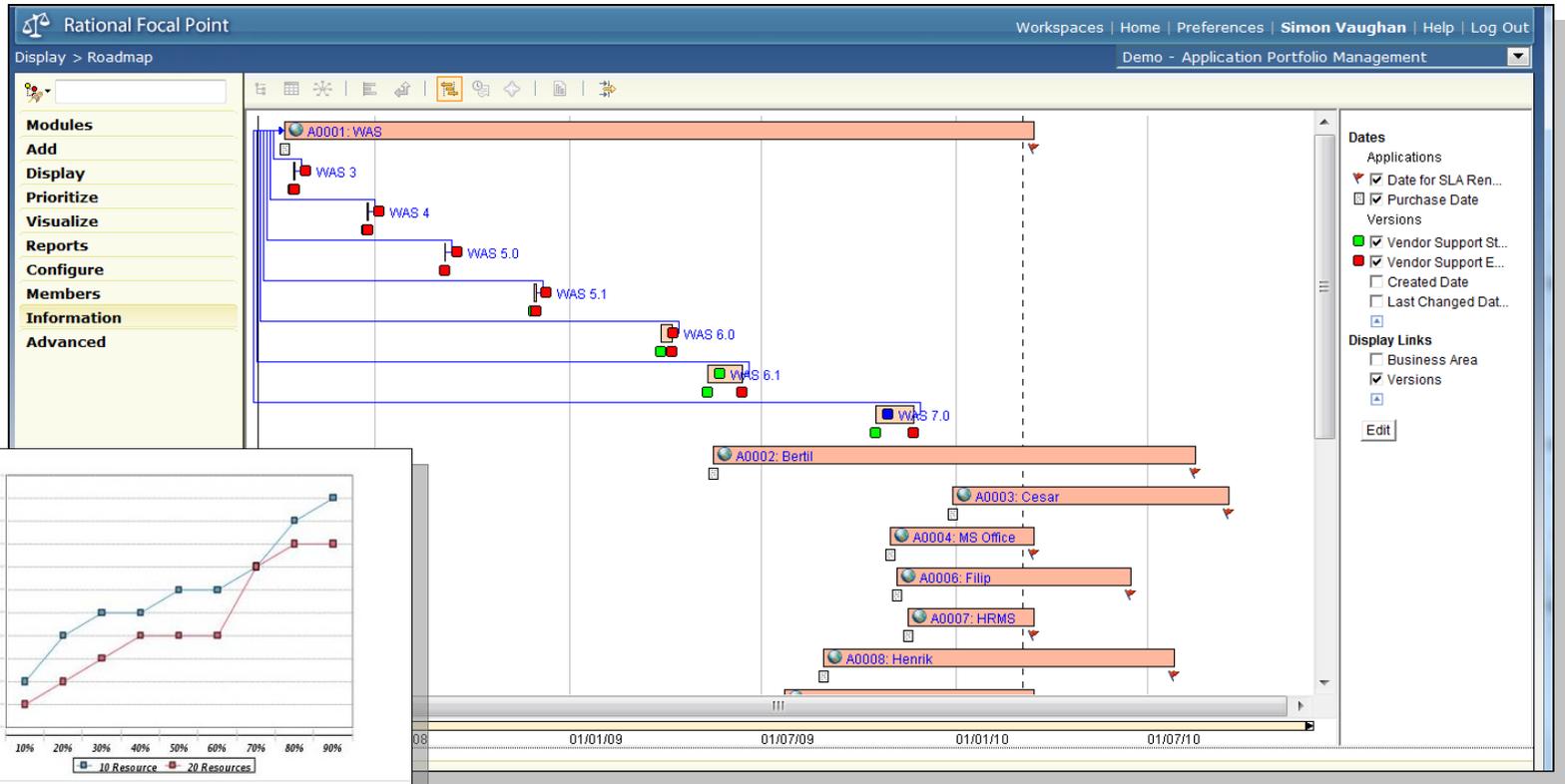


Gestire il Business dell'IT: Workflow

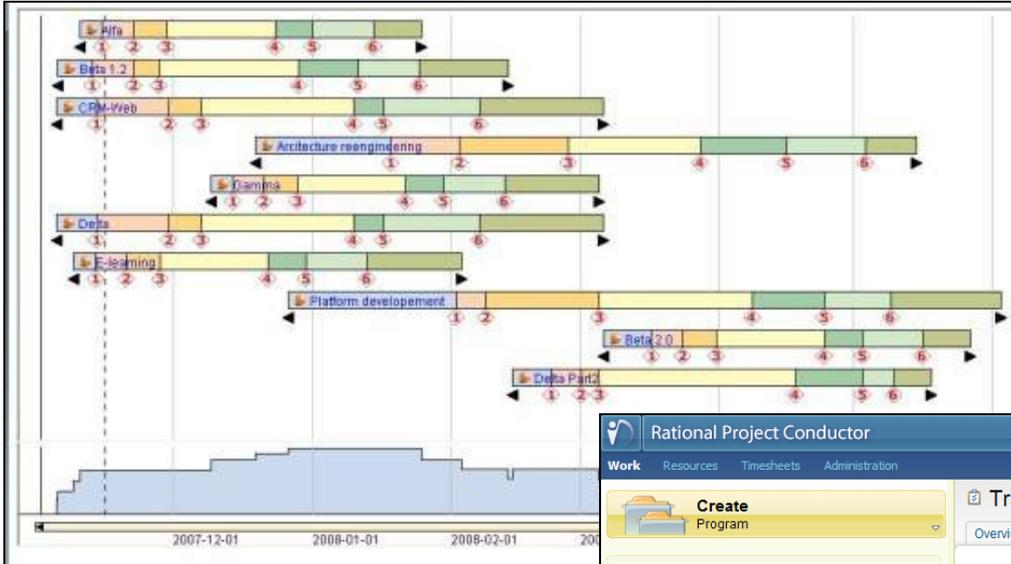


Rational Project Conductor with Integration to delivery

Definire lo scopo e la roadmap delle iniziative



Pianificare i progetti per una Integrated Execution



Rational Project Conductor

Work Resources Timesheets Administration

Create Program

Translation

Overview **Schedule** Details Risk Baselines Financials

Start (Actual)	Finish (Actual)	Effort (Actual)	%C	%EC	%DC	6, 2009										
						T	W	T	F	S	S	M	T	W	F	
Jul 30, 2007	Dec 19, 2008	509 d	5120 h	Jul 30, 2007												
Jul 30, 2007	Dec 19, 2008	365 d	5120 h	Jul 30, 2007												
Jul 30, 2007	Sep 14, 2007	35 d	280 h	Jul 30, 2007												
Jan 28, 2008	Dec 19, 2008	235 d	1344 h	Jan 28, 2008												
Feb 22, 2008	Sep 2, 2008	138 d	600 h	Feb 22, 2008												
Jan 14, 2008	Oct 22, 2008	203 d	2696 h	Jan 14, 2008												
Sep 14, 2007	Nov 7, 2008	301 d	200 h	Sep 14, 2007												
Jun 27, 2008	Jun 27, 2008	1 d	8 h	Jun 27, 2008												
Jul 24, 2008	Jul 24, 2008	1 d	8 h	Jul 24, 2008												
Aug 18, 2008	Aug 18, 2008	1 d	8 h	Aug 18, 2008												
Aug 15, 2008	Sep 9, 2008	18 d	72 h	Aug 15, 2008												
Sep 14, 2007	Sep 11, 2008	260 d	56 h	Sep 14, 2007												
Sep 22, 2008	Sep 22, 2008	1 d	8 h	Sep 22, 2008												
Oct 10, 2008	Nov 7, 2008	21 d	40 h	Oct 10, 2008												
Jan 1, 2009	May 11, 2010	495 d	1544 h	Jan 2, 2009												

Work Breakdown

Programs and Projects

- Financials
 - Payroll App
 - Project Name
 - Inception
 - Elaboration
 - Customer Interactions (Managed Beta)
 - Development
 - Translation
 - Drop1 - all langs PII & Non PII
 - Drop2 PII- all langs
 - Drop2 nonPII - all langs
 - TVT
 - DVT
 - Drop 2a
 - Release
 - Sample Applications



Riassumendo...



Increased
Visibility



Analysis and
Optimization



Business and IT
Alignment

- **Step per una EA di successo...**

- Costruire una vista Olistica
- Bilanciare I Bisogni correnti con le necessità a lungo temine
- Valutare il business risk dei cambiamenti
- Eseguire e Valutare il proprio portfolio progetti



IT Planning and
Transformation



Enterprise
Decision Support

- **Soluzione IBM Rational per la EA:**

- ▶ Gestire in maniera centralizzata ed automatizzata gli asset correnti della Enterprise (TIVOLI-SA)
- ▶ Analizzare le risorse correnti e valutare I possibili scenari futuri (System Architect)
- ▶ Ridurre il budget sugli Investimenti focalizzando le risorse sui progetti a maggiore impatto (SA-FP)



Business Driven
Innovation



धन्यवाद

Hindi

多謝

Traditional Chinese

ขอบพระคุณ

Thai

Спасибо

Russian

Gracias

Spanish

Tak

Danish

Tack

Swedish

Danke

German

Grazie

Italian

Thank You

شكراً

Arabic

Obrigado

Brazilian / Portuguese

English

多谢

Simplified Chinese

Merci

French

நன்றி

Tamil

ありがとうございました

Japanese

감사합니다

Korean

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