IBM Software

UKInnovate2010

The Rational Software Conference





Road to Development Intelligence IBM Software, Rational

Per Kroll

Chief Solutions Architect
Measured Improvements and RPC



Smarter software for a smarter planet.



Managing risk requires measuring complexity and causality Development Intelligence is the ability to have these measures

Efficiency Quality Innovation Risk **Product** Agile Workforce Adoption Level **Profitability** Mitigation Optimization Technical Debt **Product Variance Enterprise** Security And Health Alignment

DESCRIBE
What happened and where the problem is

PREDICT
What could happen if these trends continue

PRESCRIBE
How can we achieve the best outcome





Analytics Maturity



Structured Improvement Mandates a Control framework

General Manager

Value Business Objectives

Value Metrics

e.g., ROI, Profit, Market Share

SVP's VP's

Directors

Efficiency Operational Objectives

Operational Effectiveness Metrics e.g., Time to market, productivity

Control
Best practices
And tools

Control Metrics subjective



Control Metrics objective

Governance Dashboard compliance





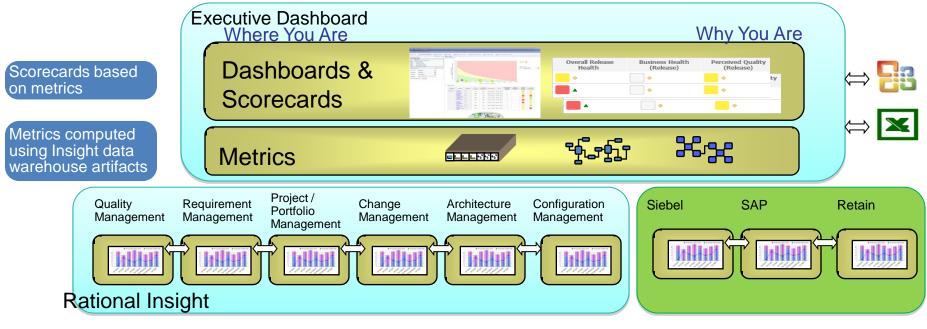


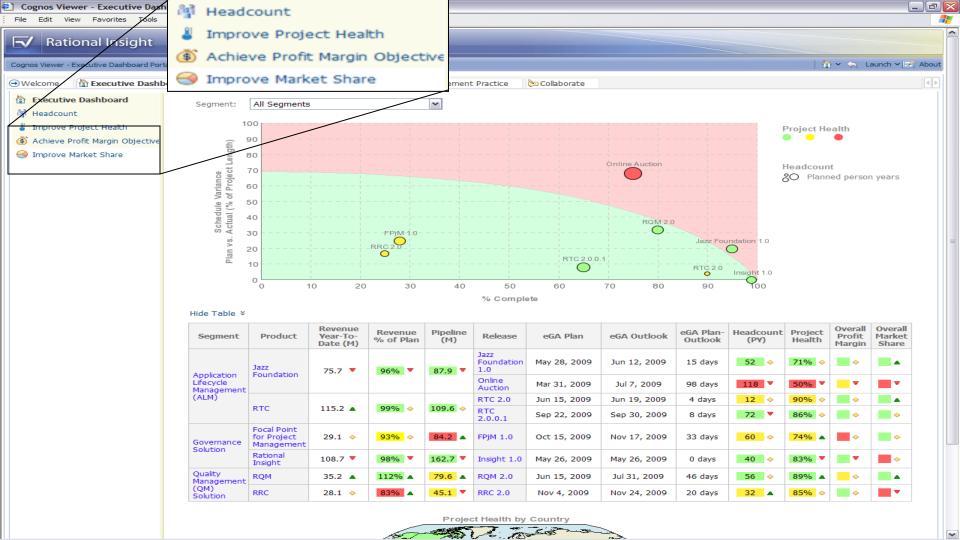
- Mapping Low Level to Business Objectives
- Define High Level Architecture / Metrics
- "Forced" Internal Adoption
- Evaluate Data Sources

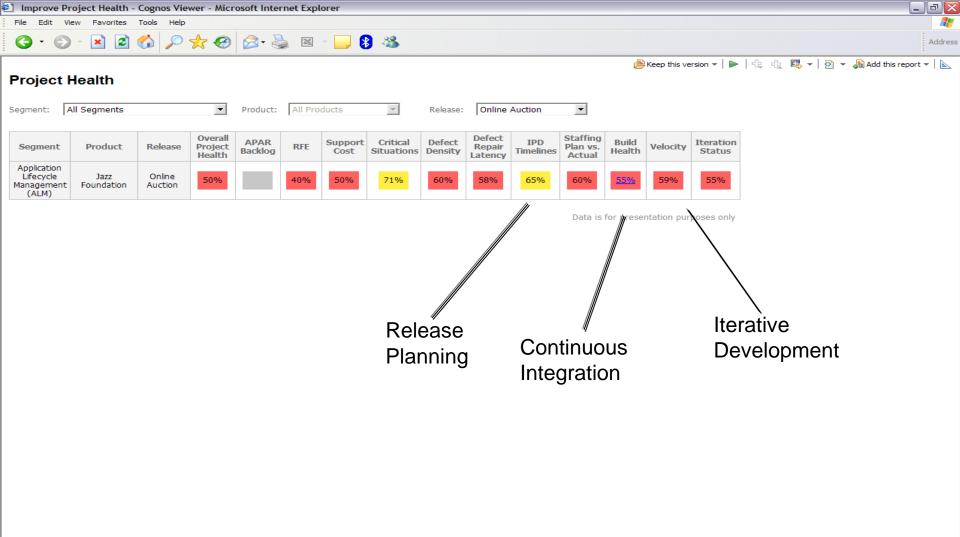
March 2009

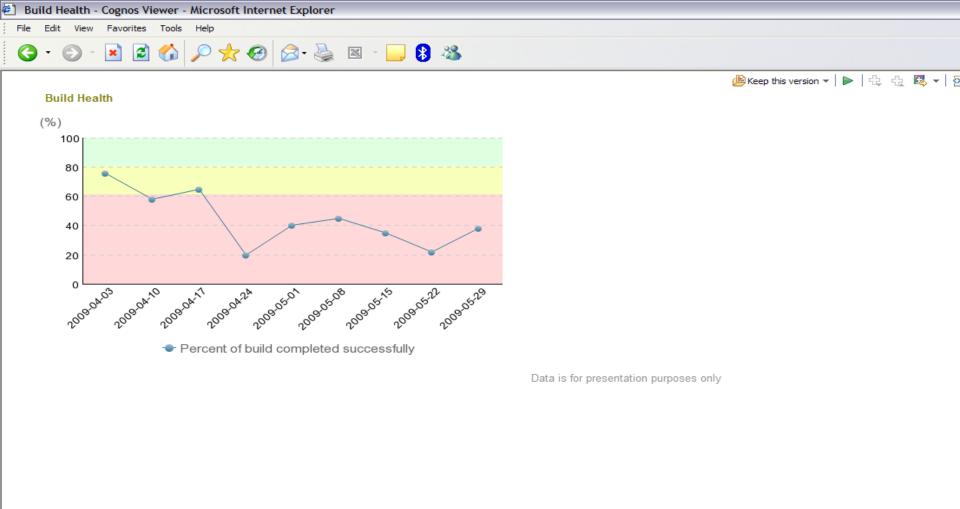


Rational Executive Dashboard

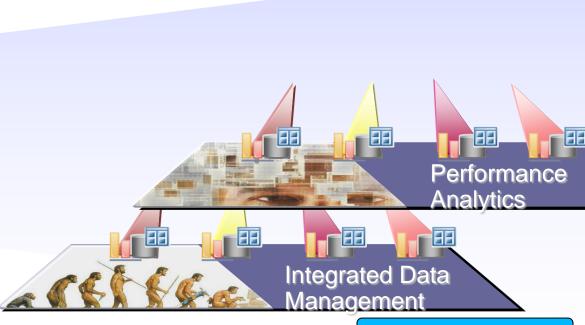








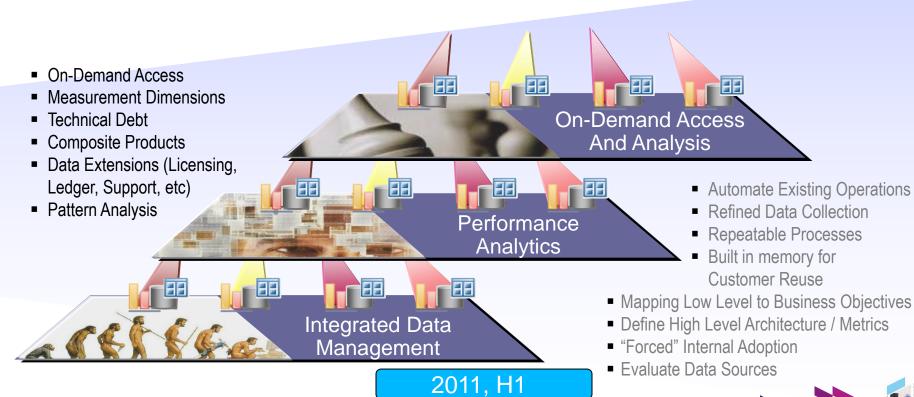




- Automate Existing Operations
- Refined Data Collection
- Repeatable Processes
- Built in memory for Customer Reuse
- Mapping Low Level to Business Objectives
- Define High Level Architecture / Metrics
- "Forced" Internal Adoption
- Evaluate Data Sources

January 2010







Increasing Accountability of Software: Technical Debt

What is the cost of quality



During the coding phase



During the build phase



During the QA/Testing phase



Once released as a product (APAR)



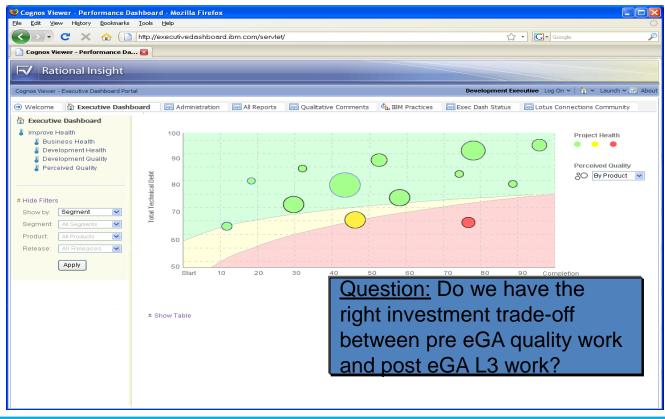
Proactive
Situation
(PROACTIVE)



Product has a critical situation (CRIT)



Technical Debt







Metrics – Rational 2006 - Present

Metric	Goal	2006 Measurement	2009 Measurement
On Time Delivery	65%	47%	100%
Defect Backlog	3 Months	9+ Months	3.5 months
Enhancements Triaged	85%	3%	100%
Enhancements into Release	15%	1%	21%
Customer Sat Index	91%	88%	96%
Beta Defects Fixed Before GA (High severity)	50%	3%	94%
Agile / Iterative Projects	25%	5%	78%

Note: Goals are either internal IBM statistics or industry benchmarks.



Holistic view of status and trajectory of projects

Supply Chain / Outsourcing Management

Productivity Intelligence

Business Value of Development

- On-Demand Access
- Measurement Dimensions
- Technical Debt
- Composite Products

 Data Extensions (Licensing, Ledge Support, etc)

Pattern Analysis

Performance Analytics Automate Existing Operations

Refined Data Collection

Development

Intelligence

- Repeatable Processes
- Built in memory for Customer Reuse
- Mapping Low Level to Business Objectives
- Define High Level Architecture / Metrics
- "Forced" Internal Adoption
- Evaluate Data Sources

On-Demand Access

And Analysis

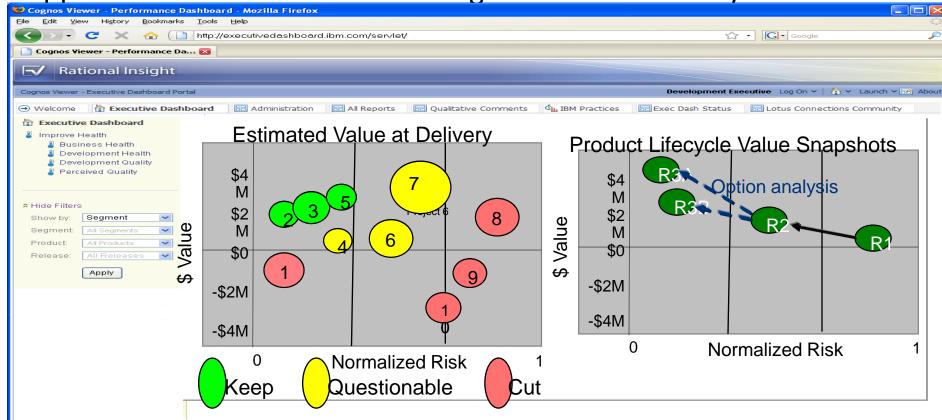
Integrated Data
Management

Not Fast Enough

Smarter software for a smarter planet.



Support Investment Decision Through the Product Lifecycle





Register by February 26 and Save.

Innovate2010

The Rational Software Conference

June 6-10 Orlando, Florida

Let's build a smarter planet.



Rational Executive Dashboard: Where can I learn more?

- Executive Dashboard on Jazz.net: http://jazz.net/projects/rational-insight/exec-dashboard/
- Measured Improvement and Executive Dashboard thought leader paper: http://www.ibm.com/common/ssi/fcgi-bin/ssialias?infotype=SA&subtype=WH&appname=SWGE_RA_RA_USEN&htmlfid=RAW14 149USEN&attachment=RAW14149USEN.PDF
- Contact Krista Meyer (Development Manager) at kdmeyer@us.ibm.com

IBM Software

UKInnovate2010

The Rational Software Conference

