

# Lower Cost and Increase Business Agility with Application Portfolio Management (APM)

Victoria Bunyard European Technical Lead for Portfolio Management and Reporting, with EA victoria.bunyard@us.ibm.com

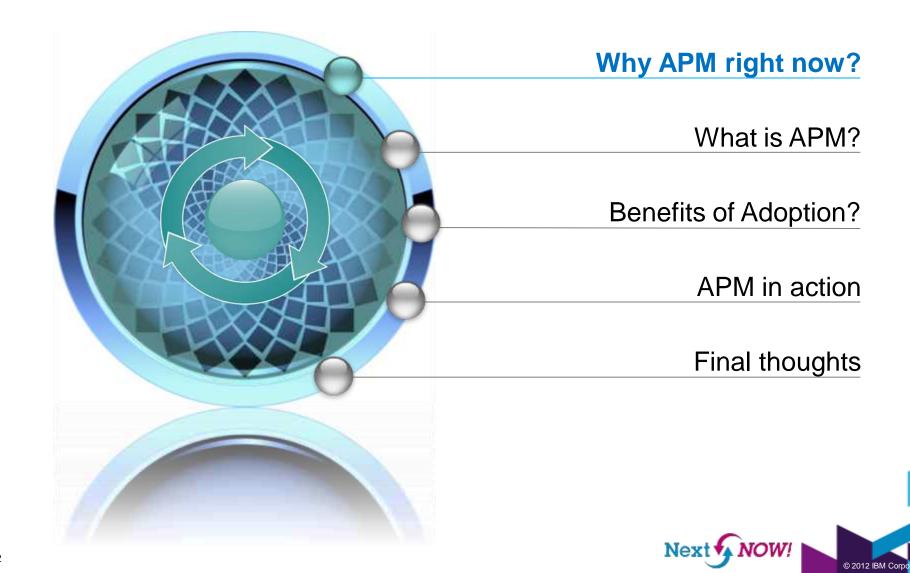


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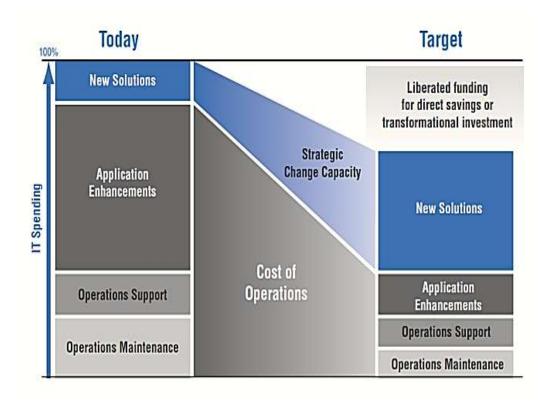
# Agenda





# Problem: Insufficient strategic spend and lacking business agility

- Cost 80/20 budget trap
  - Maintenance and operations consumes a significant % of a declining IT budget, limiting funds available for new initiatives
- Business agility
  - Brittle and tightly coupled architectures, unwarranted complexity, and technology proliferation
- Risk / supportability
  - Skills erosion, baby boomer retirements, and aging technology
- Strategic planning
  - Inability to actively plan strategic initiatives; Cloud, Mobile, Compliance, M&A, and Divestitures



# "A large UK bank initiated its APM effort to take a 90:10 ratio for run-the-bank / grow-the-bank down to a more reasonable 40:60 ratio. Dell shifted its maintenance-to-innovation ratio from 80:20 to 50:50."

- The Application Portfolio Management Landscape — Combine Process And Tools To Tame The Beast Phil Murphy, Forrester Research, Inc. April 15, 2011



# Solving the problems requires a different approach

"We can't solve problems by using the same kind of thinking we used when we created them."

Albert Einstein

Addressing the problem requires an **asset (application) portfolio approach** to complement the traditional project portfolio approach

### **Project Portfolio Management**

- Commonly used in mature companies
- Provides executives (only)
  - Control over 20% of this year's budget
  - Ability to affect this year's project proposals



# **Application Portfolio Management**

- Used effectively by only a few leaders
- Provides executives
  - Multi-year control over 80% of the budget
  - Ability to generate new project proposals such as structural changes to address problems

### Many companies have the 80/20 rule wrong...





# Simplify IT to drive innovation and business agility Governance and collaborative decision making





### Improve business agility

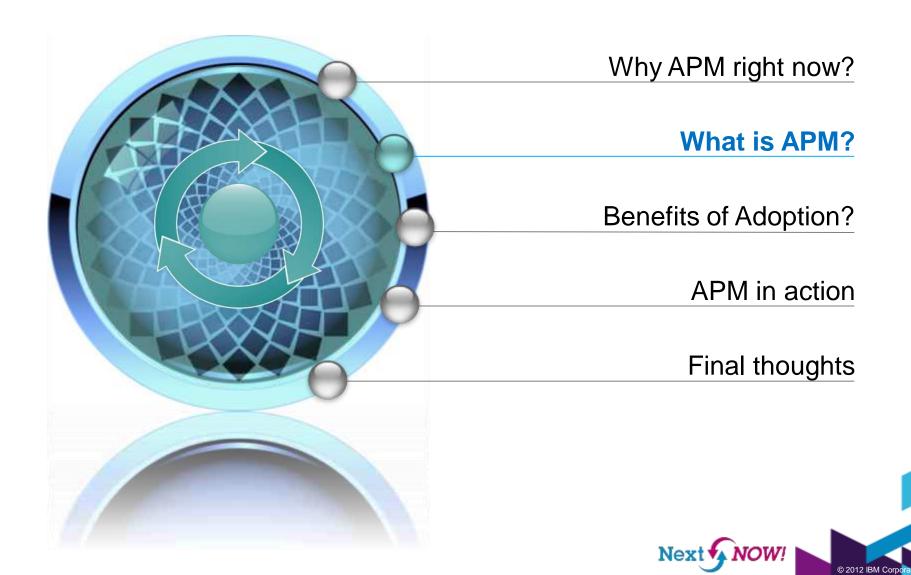
Reinvest savings in application modernization and effectively manage demand

### Deliver and improve Deliver on projects and measure the result to improve future decision making



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# Agenda





# A definition of Application Portfolio Management



Application portfolio management (APM) is a repeating process using information and analytics that produces objective and transparent decisions around investing, consolidating, modernizing, or replacing applications.

### **Benefits:**

- Align the application portfolio with business strategies
- Reduce costs and optimize value
- Increase speed-to-deployment and speed-to-market
- Reduce risk associated with technology or resources
- Implement shared services

"Making IT resource consumption transparent and understandable to business leaders enables healthy business discussions around how to shift resources to where they will do the most good for the whole business."

- Define "Application" Based On Your Content To Avoid False Starts In Your Rationalization Efforts, Forrester Research, Inc., January 26, 2011



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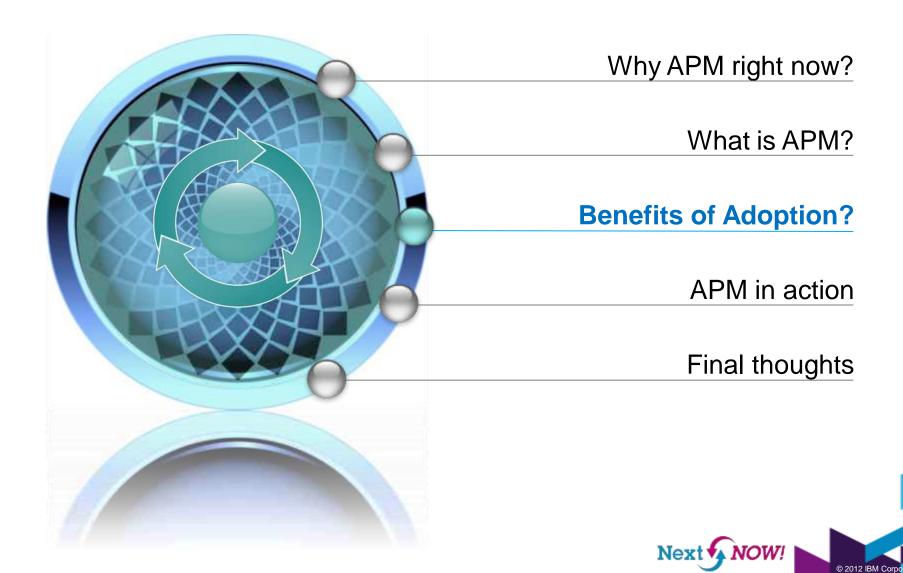
Next NOW

### IT optimization business outcomes APM-driven scenarios

|                    |                     | Consolida    | ation                          |              |                                       |
|--------------------|---------------------|--------------|--------------------------------|--------------|---------------------------------------|
|                    |                     | Driver       | M&A, divestitures, silos       |              |                                       |
|                    |                     | Benefit      | Cost                           | <b></b>      |                                       |
|                    |                     | Payback time | e Short                        |              |                                       |
|                    |                     |              |                                |              |                                       |
| Right shore        | e / Outsource       |              |                                | Modernizat   | ion                                   |
| Driver             | Globalization, cost |              |                                | Driver       | Brittle architectures, retention, age |
| Benefit            | Cost, competency    |              |                                | Benefit      | Cost, agility, reduced risk           |
| Payback time       | Short               |              |                                | Payback time | Medium                                |
|                    |                     |              |                                |              |                                       |
| Compliance         |                     |              |                                | Investi      | ment Management                       |
| Driver Reg         | ulations            |              | Application                    | Driver       | Transparency, efficiency              |
| Benefit Redu       | uced risk           |              | nventory                       | Benefit      | Cost, business alignment              |
| Payback time Shore | rt                  |              |                                | Payback      | time Medium                           |
|                    |                     |              |                                |              |                                       |
| Mobile             |                     |              |                                | SLA Optimi   | ization                               |
| Driver             | Customer demand     |              |                                | Driver       | Operational complexity, cost, risk    |
| Benefit            | Business agility    |              |                                | Benefit      | Operational cost, bus. alignment      |
| Payback time       | Short               |              |                                | Payback time | Short                                 |
|                    |                     |              |                                |              |                                       |
|                    |                     | Cloud        |                                |              |                                       |
|                    |                     | Driver       | Operational cost, fluctuations | ٣            |                                       |
|                    |                     | Benefit      | Cost, flexibility              |              |                                       |
|                    |                     | Payback time | Short                          |              |                                       |



# Agenda





# Measuring the Total Economic Impact

Forrester Consulting interviewed four of our clients to establish a financial model (3-year, risk-adjusted ROI) for a representative organization using the IBM Rational Integrated Solution for Application Portfolio Management.

| ROI  | Payback   | Total costs   | Total benefits | Net present |
|------|-----------|---------------|----------------|-------------|
|      | period    | (PV)          | (PV)           | value (NPV) |
| 101% | 13 months | (\$1,551,280) | \$3,507,306    | \$1,956,026 |

### **Benefits**

- Improved process efficiency business and IT. Reduced time and effort to collect, manage, and report on the application environment.
- Reduced risk/improved allocation of capital. Improved transparency around the application environment, increasing the likelihood that mission-critical applications are adequately funded.
- Improved Time-To-Delivery On Application Initiatives. Reduced time to decide on, and implement required changes.
- Reduced cost. Lower maintenance and operations cost through consolidation and rationalization. (Not quantified in report, nor included in the above model.)

Source: Measuring The Total Economic Impact Of IBM Rational Integrated Solution for Application Portfolio Management, a commissioned study conducted by Forrester Consulting on behalf of IBM, January 2012.





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### Simplify IT to improve business agility A global conglomerate

#### Challenge Cost

 Too much money spent on maintenance and operation

#### Solution

- Established application inventory in first month
- Assessed business value versus cost and risk
- Reduced number of local and non-strategic applications

#### Results

- ✓ Reduced number of applications by 45% in 18 months
- ✓ Reduced money spent on keeping lights on from 85% to 50%

#### Challenge Business agility

- IT not reactive to business needs
- Business had low confidence in IT's ability to add value

#### Solution

- Established demand management process
- Used tools for improved business and IT collaboration
- Re-invested savings from keeping lights on into innovation

#### Results

- ✓ Reduced response time to business change request from 200 to 14 days
- Improved trust between Business and IT
- ✓ IT is now viewed as an enabler of innovation, rather than as a cost center

### Read the full case study





### Rationalize and optimize to align with the business Financial institution in North America

#### Challenge Complexity

 Unclear what applications exists and their value

#### Solution

- Built application inventory in two months, replacing previously scattered information
- Enabled portfolio management and EA teams to collaborate

#### Results

✓ Reduced number of applications by 75% in 18 month

#### Challenge Business alignment

 SLA's and application support costs not driven by business justification and priorities

#### Solution

- Assigned appropriate SLA level based on needs
- Streamlined organization to align with simplified SLA levels and smaller application portfolio

#### Results

- Reduced number of SLA levels from 17 to 4
- ✓ Double digit reduction in operations cost

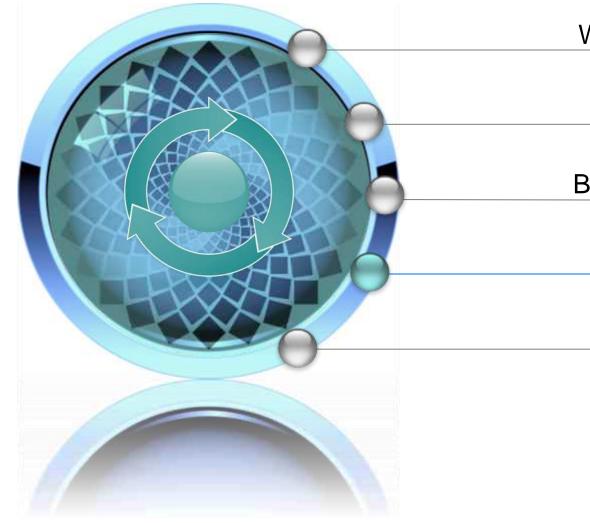
### Read the full case study



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# Agenda



# Why APM right now?

What is APM?

**Benefits of Adoption?** 

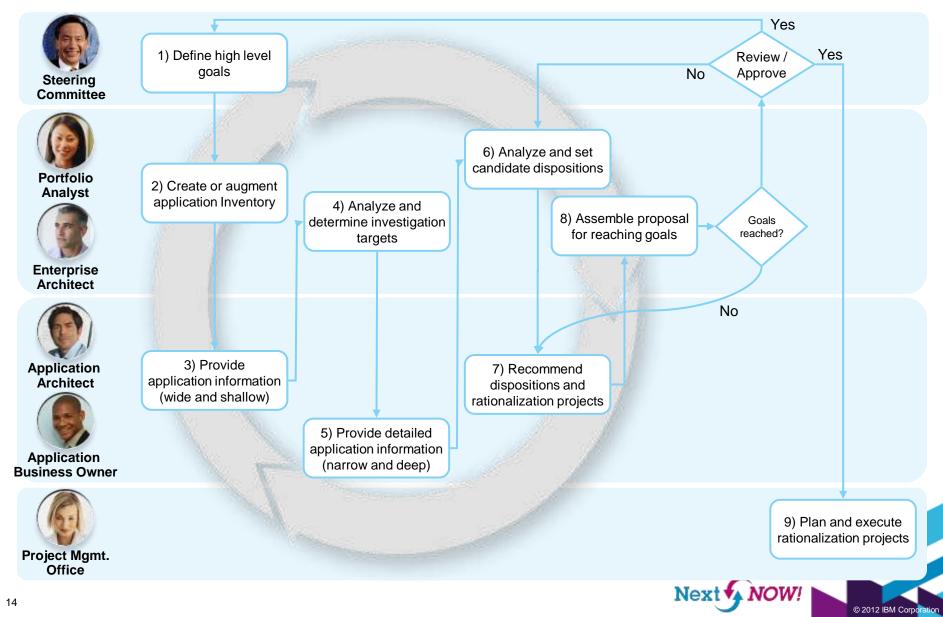
**APM in action** 

Final thoughts





# Application Portfolio Management: Simplified workflow





# 1) Define High Level Goals

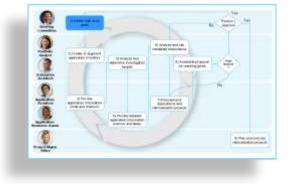


Steering Committee

- High level goals established
  - Example: Reduce application costs by 20% by end of 2013
- Explicit targets for accomplishing goals are established
  - Example 1: Reduce maintenance spend by 15% by end of next quarter
  - Example 2: Establish Goals for Decommissioning Applications, with the ability to track Plans and Actuals to those goals

| isplay > Decommissioning Plan   | lines   |         |                 |              |                 |                 |                |                |
|---|---|---------|-----------------|--------------|-----------------|-----------------|----------------|----------------|
| ·*·   | 14 111 12 곳 · 토 삶 · 114 영 수 · 12 Planning · · · |         |                 |              |                 |                 |                |                |
| Modules<br>Add  | Year  | Quarter | Retirement Goal | Savings Goal | Retirement Plan | Planned Savings | Actual Retired | Actual Savings |
| Display My Applications Application Roadmap Projects Project Roadmap Portfolio Investment Decommissioning Plan Weights Business Units | 2012  | 3 Q3    | 5               | \$700,000    | 0               | \$0             | D              | \$0            |
|   | 2012  | 4 Q4    | 5               | \$700,000    | 0               | \$0             | 0              | \$0            |
|   | 2012  | 1 Q1    | 4               | \$600,000    | 3               | \$78,500        | 1              | \$38,000       |
|   | 2012  | 2 Q2    | 6               | \$900,000    | n               | \$0             | D              | \$0            |
|   | 2013  | 1 Q1    | 5               | \$650,000    | 0               | \$0             | D              | \$0            |
| My Applications - Per   | 2013  | 2 Q2    | 7               | \$450,000    | 0               | \$0             | 0              | \$0            |



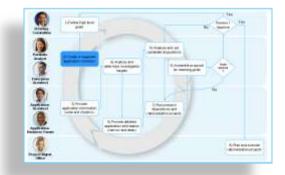




# 2) Create or augment application inventory



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- Rapidly import inventory from existing spreadsheets
- Optionally leverage role-based Web interface for additional information entry



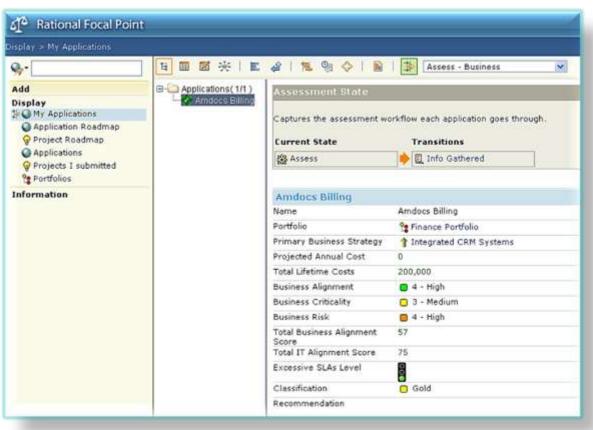


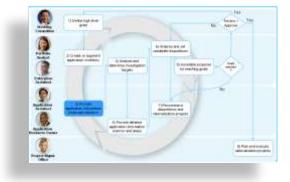
# 3) Provide application information (wide and shallow)





Application Architect Application Business Owner





- Web-based entry through role-based views
- Provide filters to make data entry trivial
- Increase data quality through choice selections and built in quality assurance steps





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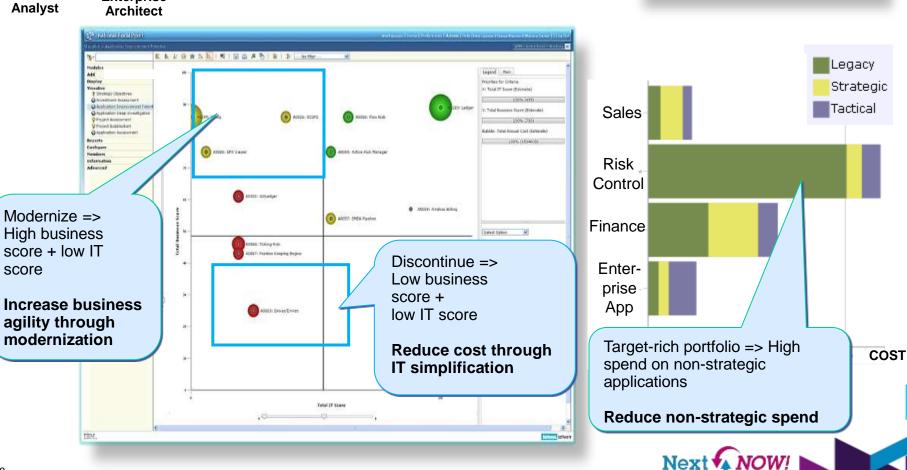
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### 4) Analyze and determine investigation targets Identify applications to be further investigated









# 5) Provide detailed application information Focus on four dimensions

Functional Quality Strategic Value

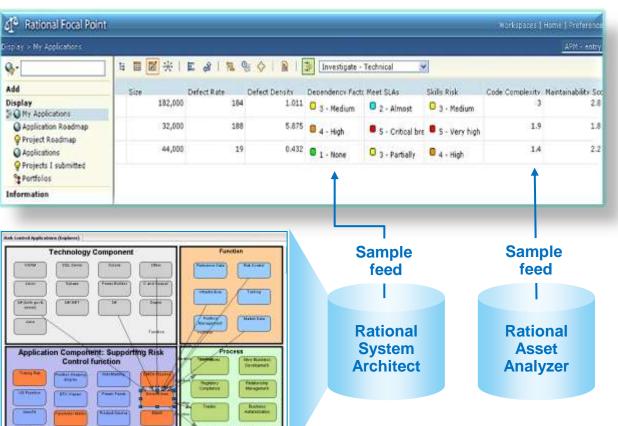
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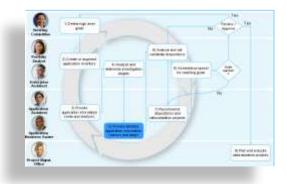


Architect

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Application
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Application Business Owner

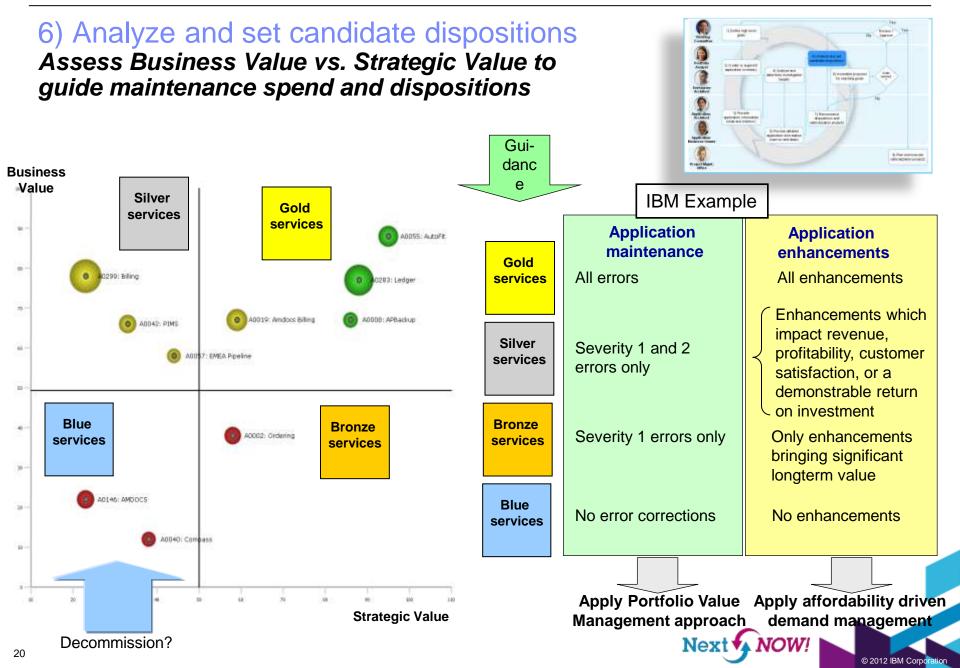




- Web-based and role based information gathering
- May optionally be informed by application analysis tools, such as IBM Rational Asset Analyzer or CAST Application Intelligence Platform
- May optionally be informed by an Enterprise Architecture tool, such as IBM Rational System Architect

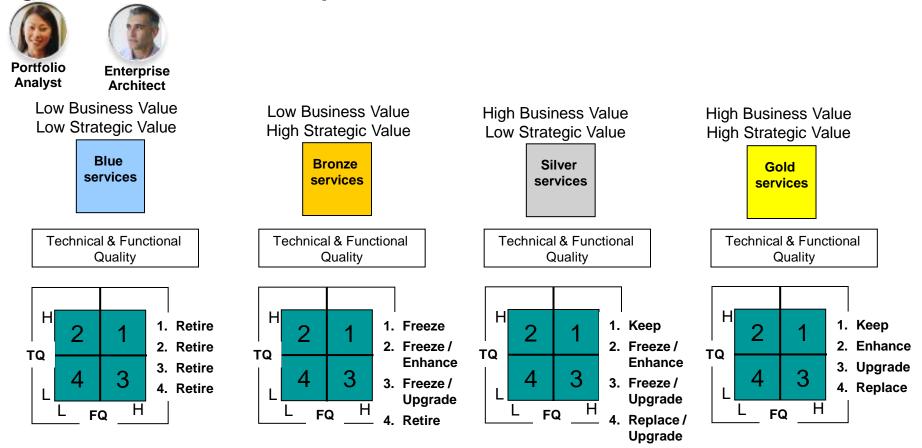








### 6) Analyze and set candidate dispositions Assess Technical and Functional Quality to guide investments and dispositions



Most applications are candidates for retirements and should be frozen immediately.

Most applications should be frozen. Consider replacement to more strategic applications. **Newly introduced applications** could be revalidated to stay as a target application.

Most applications could be frozen temporarily - until a need to Upgrade or Enhance has been aggregated.

Many applications are likely to be in your wanted portfolio and part of your target solution.

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### 6) Analyze and set candidate dispositions Propose disposition and understand savings potential

| Disposition                     | Description  | Potential % Savings based on<br>industry benchmarks                                     |
|---------------------------------|--|---|
| Decommission<br>(a.k.a. Retire) | Discontinue the application.   | 70% of maintenance and production infrastructure cost                                   |
| Relocate                        | Evaluate and select alternate sourcing for application hosting, maintenance and/or development.    | 40% of labor (enhancement and<br>maintenance) + 3% of production<br>infrastructure cost |
| Reprioritize                    | Reduce spend on maintenance or operations costs.   | 15% of maintenance labor  |
| Replace                         | Replace current application(s) with new application / packaged application.                        | 25% of total cost   |
| Reduce (a.k.a.<br>Consolidate)  | Rationalize multiple applications with similar function into a single application.                 | 60% of total cost   |
| Enhance                         | Add additional functionality. Improve flexibility by using new principles, e.g. SOA, Web Services. | No change -????   |
| Modernize (a.k.a.<br>Rustproof) | Modernize application by upgrading technology and improving architecture.                          | 15% of labor (enhancement and maintenance)  |
| Retain                          | Keep as-is.  | No change   |





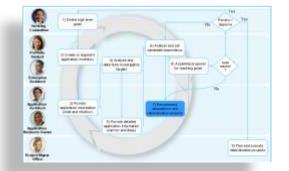
# 7) Recommend dispositions and projects *Review and harden proposed dispositions*





Application Architect

Application Business Owner

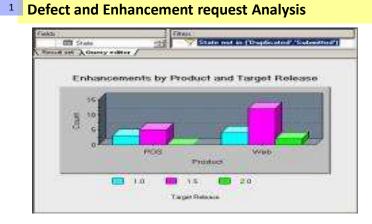


- Bring together key stakeholders of this applications, and review impact of proposed disposition
  - What is impact of a freeze?
  - If we replace the application with an ERP, what is the business impact?
  - What risks are associated with relocating this application?
  - Knowing the details about the application and business context, is there a more sensible disposition?
- For upgrades / modernizations => Conduct Feasibility Study
  - Drill down into details of the architecture and code base
  - Determine the appropriate modernization approach (re-factor, migrate, wrap, ...)
  - Understand costs, benefits, and risks



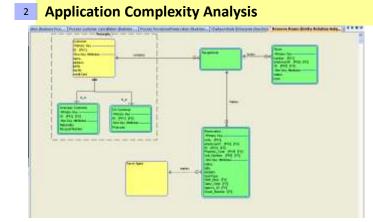


# 7) Recommend dispositions and rationalization projects Conduct feasibility study

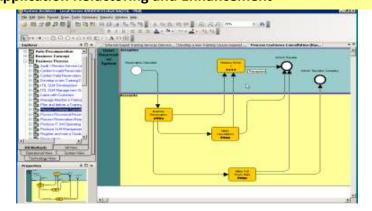


#### **3 Business Processes and IT alignment Analysis**





#### 4 Application Refactoring and Enhancement



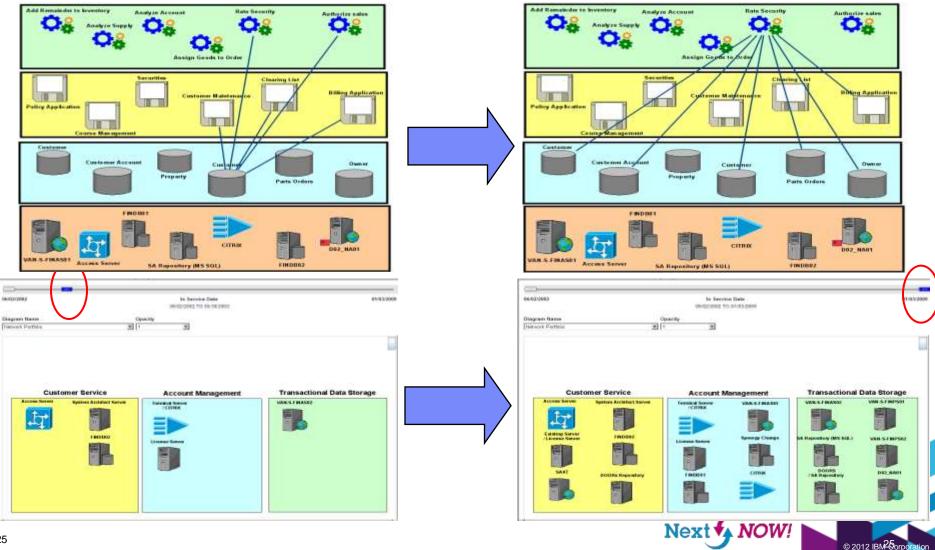




# 7) Recommend dispositions and rationalization projects Define Future State architecture (s)

### Current

Proposed





## 7) Recommend dispositions and rationalization projects Produce project proposals for rationalization projects





Application Architect

Application Business Owner

| 🗄 Planning Data                  |   |
|----------------------------------|---|
| Start Date                       | 6/1/11                                      |
| End Date                         | 8/30/12                                     |
| Benefits End Date                | 10/1/13                                     |
| Primary Business Objective       | 1 Reduce Costs by 10% over the next 2 years |
| Supported Business<br>Objectives | 👔 Gain 5% organic growth by Dec 2011        |
| Related Applications             | A0299:Billing                               |
|                                  | A0302:GOLedger                              |

| E Scorecard                |                 |
|----------------------------|-----------------|
| Architectural Fit          | 👩 5 - Very High |
| Strategic Alignment        | 🖸 4 - High      |
| Business Value             | 👩 5 - Very High |
| Competitive Advantage      | 🖸 4 - High      |
| Total Business Value Score | 1,129           |
| Total Risks Score          | 71              |

 Link Future State architectures to project proposals

#### Expected Cost: \$1.4 M Expected Benefits (accrued over 13 months after project completion: \$1.9 M Net Present Value (28 months)



 Propose and establish business case for projects

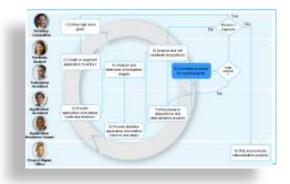




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# 8) Assemble proposal for reaching goals Evaluate and prioritize rationalization projects





- Compare projects side by side using pair-wise comparison
- Visualize project priority base on defined project criteria





8) Assemble proposal for reaching goals Establish roadmap that enables goals to be met. Plan and approve for execution.

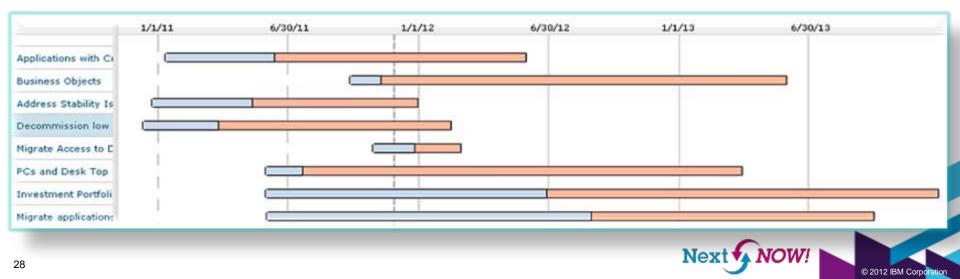


- Freeze 23 applications
  - Quarterly savings of \$870K



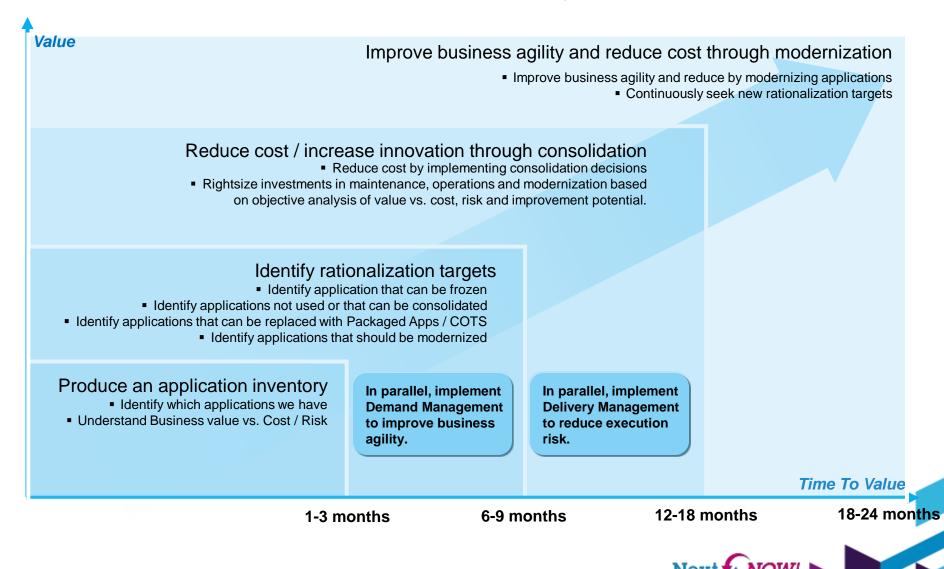
Project Mgmt. Office

- 18 rationalization projects to be carried out over next 2 years
  - Modernization of 4 applications deemed critical
  - Consolidating 12 applications
  - Decomissioning 6 applications
- Transaction cost of \$6.8M
- Expected savings by end of 2013: 22%
  - Beats goal of 20%





### Adopting APM: Shortest Route to Value Incremental adoption with incremental value delivery



# IBM's Global integration drives benefits across all areas

|              | From  | То  |
|--------------|---|---|
| Supply Chain | <ul> <li>300 local procurement centers</li> </ul>   | <ul> <li>3 global procurement centers</li> </ul>  |
| Finance      | <ul> <li>Multiple local organizations</li> <li>Non-integrated decision support</li> </ul>                 | <ul> <li>Outsourced non-core processes<br/>reduced costs 25-35%</li> <li>Integrated decision-support</li> </ul>       |
| HR           | <ul> <li>Local systems and management</li> <li>Local resource skill-set definition</li> </ul>             | <ul><li>Global HR planning</li><li>Standardization</li></ul>  |
| Marketing    | <ul> <li>Product- and geo-specific marketing</li> </ul>   | <ul> <li>13 global standardized marketing<br/>programs leveraged locally</li> </ul>                                   |
| IT           | <ul> <li>128 Local CIOs</li> <li>155 local data centers</li> <li>16,000 applications</li> </ul>           | <ul> <li>1 global CIO</li> <li>6 global data centers</li> <li>4,500 applications</li> </ul>                           |
| R&D          | <ul> <li>Multiple international R&amp;D centers</li> <li>Local specialization with duplication</li> </ul> | <ul> <li>Fully integrated R&amp;D</li> <li>Collaboration with 50 organizations to<br/>build IP marketplace</li> </ul> |





# IBM CIO Office APM Experiences

- Application reduction
  - From 16,000 to 4500
  - Targeting another 50% reduction by 2015
- Cost reductions
  - \$1,5 Billion dollar estimated savings as a result of application and data center consolidation
  - Of applications classified as "Blue", an estimated 95% savings in maintenance (due to consolidation and freeze of maintenance dollars)
- Ongoing process
  - APM never ends, this is the 3<sup>rd</sup> time we cut the application count by 50% or more....
  - Many other improvements besides IT cost reduction, such as business process efficiencies gained from global processes for a global company

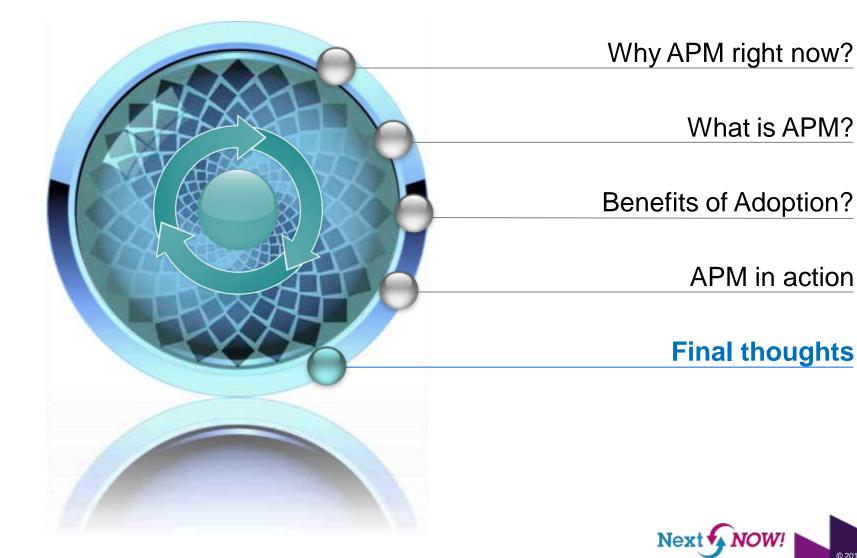
 For more info, see Computerworld article: <u>http://www.computerworld.com/s/article/9226430/IBM on path to cut internal apps by 85</u>





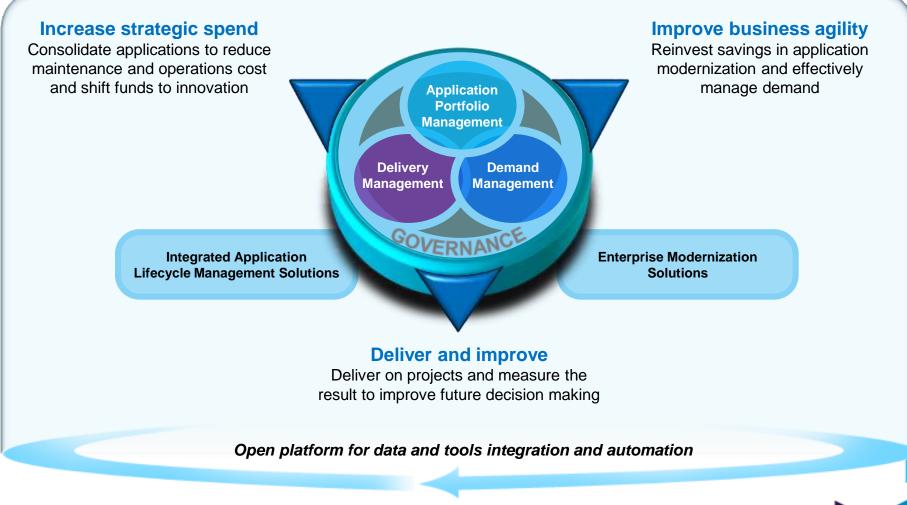
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# Agenda



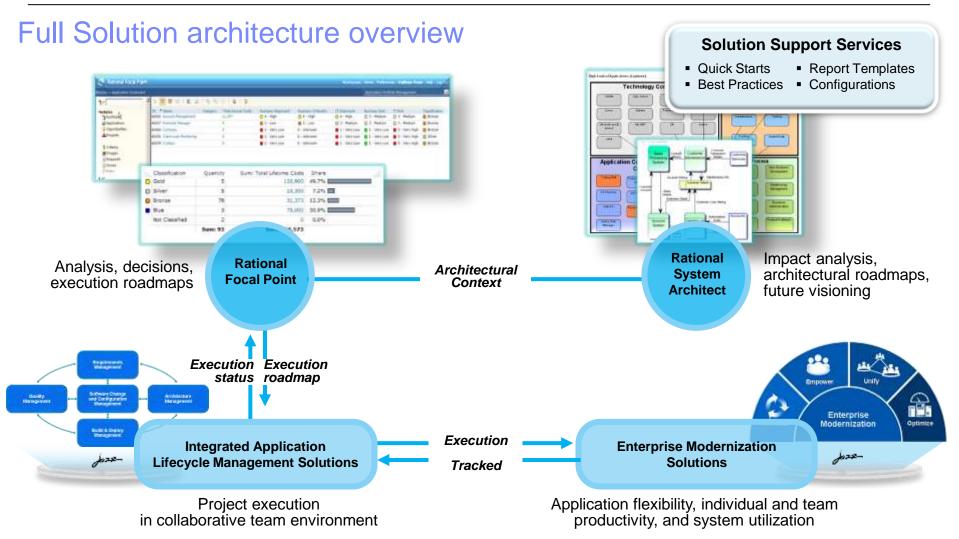


### Simplify IT to drive innovation and business agility Governance and collaborative decision making









### APM decisions and plans are executed and tracked in solutions for Application Lifecycle Management and Enterprise Modernization

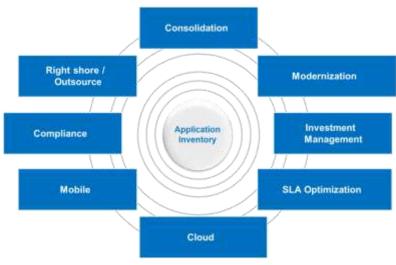


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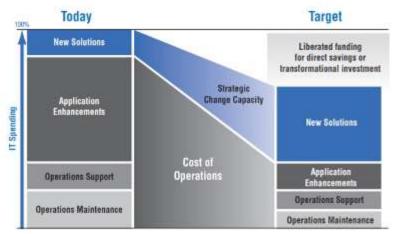
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# In summary



### Gather info, analyze, make smart decisions

DRIVES



Increase in strategic spend



Strengthened business and IT collaboration





# Find out more

- POT Brussels 19th October, Amsterdam 13th November
- APM content on <u>ibm.com</u> (ibm.co/apmsolution)
  - whitepapers, demo, podcast, video etc.
- APM reference stories: North American Bank, Global Conglomerate
- APM Forrester Consulting commissioned report on Total Economic Impact of the IBM Rational Integrated Solution for APM
  - Provided on request
- APM whitepaper: <u>Empowering the CIO</u>
- APM Content on <u>developerWorks</u>
  - demos, presentations, User Guides, etc.







### www.ibm.com/software/rational





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