

IBM Software Universe

Smarter Businesses, Smarter Industries.

8th March 2011, Pan Pacific, Dhaka.

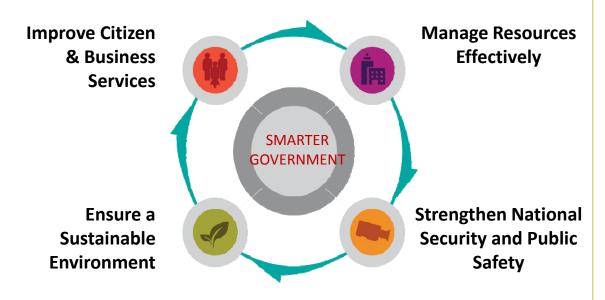


Smarter Governance

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Smarter Cities......





- Delivering BI for Business Value
- Advance Case Management
- IBM Industry Solutions: Helping Governments help citizens & businesses
- Connect & Collaborate
- Data Reduction and Storage
 Management Transformation
- Acquiring a Single View of Citizen
- Scalable Application Infrastructure for Citizen Centric Services
- Smarter Governance

Key Challenges for the Government in delivering better Citizen Services, Safety and Accountability





"We don't understand the effort, risk and impact of modernizing our legacy software portfolio"



"We seem to start out with a clear set of objectives but we miss the mark on tracking and delivering successful services"



'Our architecture has evolved to be too complex and convoluted— we need to be flexible and agile." "Each development team in our sister agencies work on different platforms. We struggle with a common vocabulary to even describe our problems "



Program alignment Challenges

- Programs don't yield expected benefits
- Unclear ownership & stakeholder influence
- Inconsistent decision-making & signoff
- Capturing legislative, policy and standards dictates

Applications, Assets and Skills Challenges

- Inflexible legacy applications
- Disjointed service delivery
- Missing service or duplicate services
- Inflexible staffing model, aging workforce and skill shortages
- Poor communication
- Leveraging ERP assets

Oversight Challenges

- Security concerns
- Inability to report on compliance mandates
- Weak project oversight
- Lack of traceability within projects and across agencies
- Lack of success metrics or KPI



To ensure efficient management of Systems & Applications, Governments are focusing on <u>three</u> key areas

EXPLOIT OPPORTUNITIES

- Build future capabilities
- Prioritize spending and establish tight alignment with program objectives
- Examine governance and organizational structures
- Establish blueprint and roadmap for change based on best practices and frameworks

REDUCE COST & RISK

- Rethink infrastructure
- Gain greater agility by reducing maintenance and consolidating application assets
- Leverage existing intellectual capital and new skills
- Keep citizen data safe and private

DRIVE ACCOUNTABILITY

- Manage Risk and transparency
- Measure in-process performance
- Track compliance
- Understand impact on organizational KPIs

IBM Rational Software helps Governments derive greater value from their <u>software investments</u> to better serve their citizens

Delivered through an integrated platform to improve planning & reduce delivery risks



Modernize Enterprise Assets Transform Information Technology

Differentiate Products

Business Planning & Alignment

Product & Project Management

Compliance & Security

Collaborative Lifecycle Management

Engineering & Software Tools

Processes & Best Practices

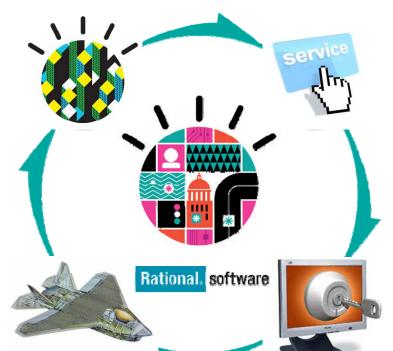
Rational Software Delivery Platform (powered by

IBM Rational Solutions for Government



Smarter Cities

Define, design and deliver smarter cities



Smarter Social Services

Align services to citizen needs and fiscal realities

Smarter Defense Systems Delivery

Integrate system and software engineering platforms for complex environments

Cyber-Security for Government

Anticipate and prevent security and compliance breaches

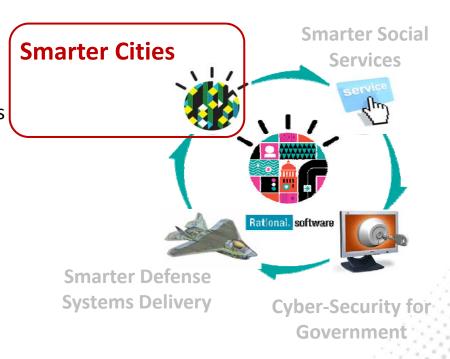
IBM Rational Solutions for Smarter Cities Define, design and deliver smarter cities



Requirements

- Make better, more informed investment decisions, with greater transparency
- Understand the impact of technology changes across municipal environments and stakeholders
- Accelerate project implementations

- Assist city leaders prioritize stakeholder needs and understand the impacts of change across the city "systems of systems"
- Find and exploit synergies across agencies to drive integration and shared services development
- Reduce risk and time to value with municipality and city models, approaches & processes for accelerating city change









City of Copenhagen

Leverages Rational software to prioritize projects on a strategic level and evaluate their strategic contribution, as well as the ability to allow quick access to information on the implementation and progress of individual initiatives



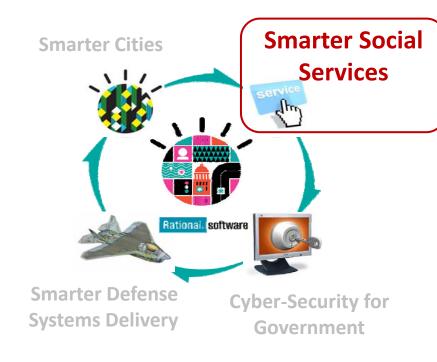
London Borough of Lambeth

Uses Rational software define and deploy business process and data models improvements across the municipality to increase decision-making quality, improve communication, enable effective and structured management of assets and technology infrastructure, and accelerate delivery of improvement projects

IBM Rational Solutions for Smarter Social Services



Align services to citizen needs and fiscal realities



Requirements

- Modernization of government services under very tight budget constraints, even though upside is valuable and unavoidable
- Cross-agency data sharing and collaboration to define synergies in targeting and delivery
- Greater accountability & transparency, including need to provide unprecedented visibility into how funds are spent

- Prioritize, modernize end expose services that reduce operating costs and drive citizen satisfaction
- Drive collaboration across stakeholders and help Agencies connect people to programs based on individual needs





Align Services to Citizen Needs with IBM Rational

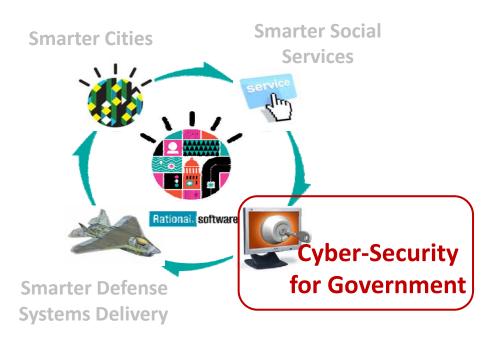


Canadian Municipalities

Established a reference model to foster greater collaboration across agencies, develop service orientation and forsee impact of policy changes. IBM Rational requirements definition, modeling and process best practices were instrumental in developing a common taxonomy, process definitions and agency objectives

IBM Rational Solutions for Cyber Security Anticipate and prevent security and compliance breaches





Requirements

- Growing concerns over Government data security driven by increasing vulnerabilities and cyber security threats
- Fulfilling various changing requirements for compliance (accessibility, etc.) and security to governing bodies
- Greater accountability & transparency means more exposure of data vulnerabilities

- Protect against the threat of attacks/data breaches, and help ensure compliance with privacy, accessibility and key industry Regulations
- Embed security and compliance across the entire software and systems delivery lifecycle



Keeping Citizen Data Safe with IBM Rational





Major US City

Needed a central application security service to support 85 agencies and lacked internal security specific expertise to manage agencywide issues. With Rational AppScan, the CIO has visibility through dashboards, to security risks across the enterprise as well as access to security experts.





Dept. of Veterans Affairs & Dept of Health and Human Services

Needed a complete inventory of all operating divisions' web applications regarding security and compliance for FISMA/NIST, eGov Privacy, Accessibility, and Quality mandates. With Rational Policy Tester platform & Rational Appscan they can ensure visibility in to issues that required scanning and reporting on millions of pages. This resulted in more effective & efficient development and Management teams and comprehensive compliance to OMB requirements

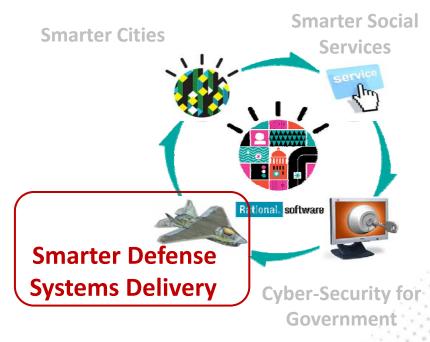
IBM Rational Solutions for Smarter Defense Systems Delivery Integrate system and software engineering platforms for complex environments



Requirements

- Management and operational complexity of massive programs and projects – across multiple contractors, components, stakeholders
- 33% of the budget for large projects is consumed in pre-development activities
- 60% of all development projects start with paper documents, even large-scale programs

- Collaborate on program delivery across complex partner and supplier eco-systems
- Manage the impact of business-driven change to programs through governance and compliance solutions that help manage complexity





NASA: James Webb Space Telescope



What's smart?

The solution will act as a blueprint for the entire multidecade project, allowing different development organizations to "drag and drop" software code directly into the blueprint, where it is then automatically populated across the entire project. This fixes issues that NASA had on the Hubble telescope, where original developers had to be tracked down 20 years later to fix issues.

Smarter business outcomes

Cost of maintenance under control with extreme quality requirements

How Rational enables smarter products

Full systems model implemented using the UML to communicate and reuse their models and code

Collaboration between over 1,000 people in 17 countries, between the agency and the contractors, with common change management



"It was important that NASA be forward-looking by using a systems development platform that would be reliable and ahead of the market throughout the extensive life of the mission."

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