



CIO's Guide to Risk Management

Case Study

Pa. Department of Transportation

Application Management and Outsourcing



PennDOT Introduction

- Provides Transportation Management for the Commonwealth of Pennsylvania
 - ✓ Created in 1970 to streamline transportation management
 - ✓ Annual budget of over \$6 bn of state and federal funds
 - √ Total 121,000 miles of state and local highways
 - √ Total 55,000 state and local bridges
 - √ Manage 40,000 miles of highway and 25,000 bridges
 - √ 12,000 employees
 - √ 11.3 Million vehicle registrations
 - √ 8.7 Million driving licenses
 - √ Safety and Emissions control inspection programmes

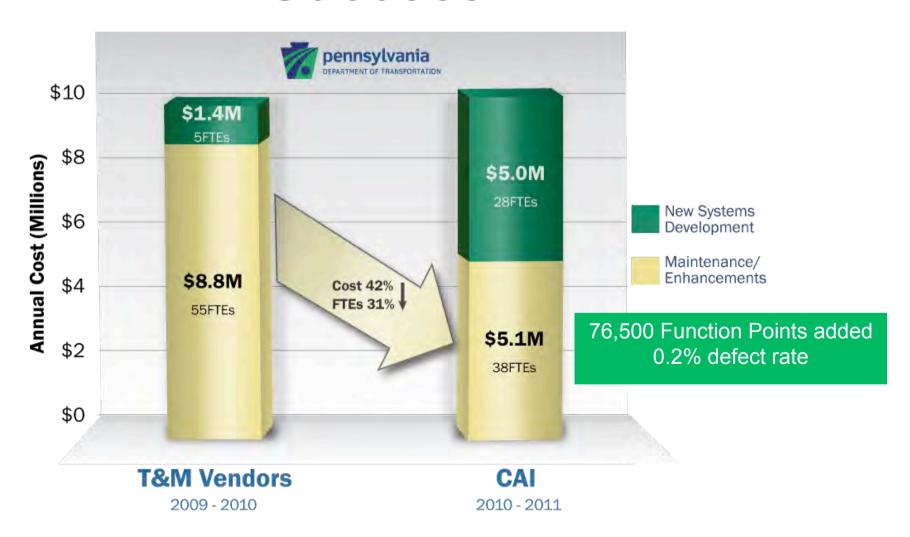
Commonwealth Directive

"Do more with less"

Commonwealth Budget 2011-12

- ✓ Balance budget with no tax increases
- ✓ Refocus investment in core functions of government
- ✓ Reduce general fund budget by 4% (\$1.17 billion)
- √ State spending overall reset to near 2008-09 levels
- ✓ State agencies are directed to focus on delivery and reduce administrative overhead

Success



Scenario:

Managing Project Risks

Risk Analysis: Why Projects Fail? Standish Chaos Report

Incomplete Requirements	13.1%
Lack of User Involvement	12.4%
Lack of Resources	10.6%
Unrealistic Expectations	9.9%
Lack of Executive Support	9.3%
Changing Requirements	8.7%
Lack of Planning	8.1%
Didn't Need It Any Longer	7.5%
Lack of IT Management	6.2%
Technology Illiteracy	4.3%
Other	9.9%
	Lack of User Involvement Lack of Resources Unrealistic Expectations Lack of Executive Support Changing Requirements Lack of Planning Didn't Need It Any Longer Lack of IT Management Technology Illiteracy

The solution begins with accountability

- Who is responsible for managing project risk?
- Who is responsible for project success?
- Who is to blame for project failures?
- Does the IT project team have unrealistic expectations of the business?
- Does the business have unrealistic expectations of the IT project team?

Project Risks and Impacts

- Failure to manage scope and requirements results in rework and increased costs
- Insufficient quality management increases the need for defect correction and increases ongoing support costs
- Scheduling gaps causes under-utilized resources
- Lack of automated tools, models, templates, or knowledge increases risks and costs

Mitigating Project Risks

- Cleary defining Requirements minimizes changes and re-work
- Establish an achievable Scope based on available resources, budgets, and expected completion date
- Plan the project to avoid Resource downtime and minimize schedule disruptions
- Identify Issues early to prevent problems and avoid the resulting re-work

Will you be successful?

Effective Risk Management answers this question

- Required Information
 - Timely and accurate project performance data
 - Opinions/feedback from all participants
 - Status of all open issues

Risk Analysis

- Is the project on-time and on-budget for completed tasks?
- Is the project on-time and on-budget for active tasks?
- Has anything changed (scope, resource availability, customer satisfaction, levels of overtime)?
- What is the reason and impact of the change?
- What is the impact of open issues?

Information Requirements

- Stakeholder and Team Communications
 - Requirements
 - Status
 - Issues/Concerns
- Project Performance data
 - Actual effort/cost vs. estimates
 - Total Changes and the impact of changes
 - Total Re-Work by reason (requirements changes vs. errors)
 - Lost time due to schedule disruptions

Impediments

- Poorly defined roles and lack of ownership and accountability
- Lack of tools to facilitate communication and compliance
- Failure to define success criteria
- Lack of visibility resulting from inadequate project tracking or not enough detail in the project plan
- Insufficient control from a lack of process or enforcement
- Failure to manage change
- Reactive culture that fails to anticipate and mitigate risks and rewards heroic recovery efforts

Solutions

- Improve communications with all project participants without disrupting progress
- Ensure compliance with processes
- Collect and analyze project performance metrics to identify trends and new risks
- Efficient staff orientation to the project and the management processes to enable agile staffing
- Establish accountability

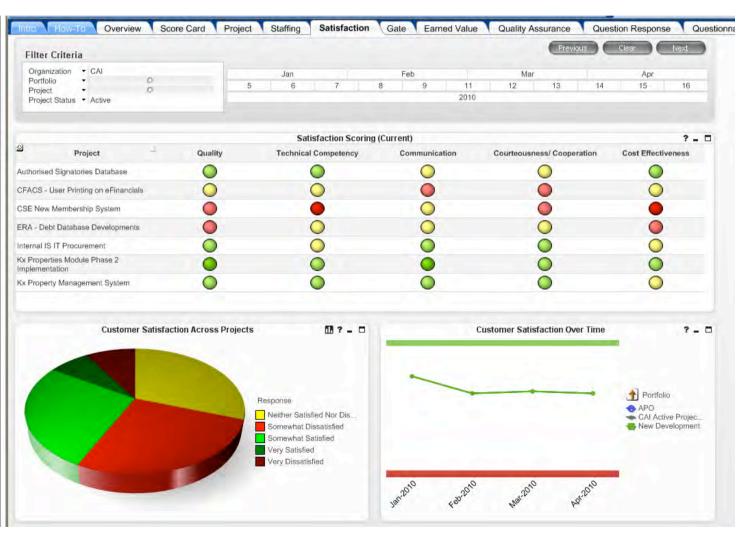
How does CAI succeed?

- Repeatable Processes are used to manage requirements, scope, schedules, risk, issues, changes, quality, and resources
- <u>Tracer Service Management Tool</u> provides visibility (metrics) and status into all assigned activities across projects and support
- Automated Project Office Answers the question "Will we succeed?"
 - Early identification of risks by conducting project health assessments to analyze project performance metrics and surveys of participants and stakeholders
 - Validates compliance with processes

Automated Project Office Visibility of Issues



Automated Project Office Visibility of Issues



How can CAI help you?

- Fixed price Application Development services
- Application Support Outsourcing to allow your staff to work on projects
- Project Management and Transformation consulting to improve effectiveness
- Automated Project Office tool to enable a rapid project office implementation
- ITMPI IT Metrics and Productivity Institute provides access to resources and knowledge from worldrenowned experts in various fields

Thank You.



