

*The starting point to  
improving the agility  
and total cost of  
ownership of your  
application assets*

CSC/CAST  
analysis

Transferability 2.97

Changeability 3.31

Robustness 3.15

Performance 3.81

Security 2.34

SEI Maintainability

CAST maintainability

Business value

# APPLICATION healthcheck

CSC's Application Healthcheck Service, which is part of a broader set of applications intelligence services offered by CSC, provides senior IT executives with prescriptive actions on how to rapidly respond to business requirements and improve the total cost of ownership of their application assets. CSC uses CAST's industry leading Application Intelligence Platform – the 'Software that knows Software'® – which analyses the source code of your applications against 700 industry-standard metrics. CSC's consultants then provide a detailed actionable report on the health of your applications along with clear recommendations on how to improve your assets.



**START YOUR JOURNEY TOWARDS:**

- Gaining control and optimising your existing application assets
- Understanding the quality and value of you assets
- Reducing the number of defects by up to 33%
- Improving developer productivity by up to 20%
- Reducing maintenance costs by up to 10%
- Improving the speed of knowledge transfer by up to 30%

**HEALTHCHECK BENEFITS**

- Clear information and actionable roadmap
- Objective analysis via industry-standard best-practices and metrics
- No investment in tools and minimal investment in staff time required
- Short time frame to positive ROI
- Focused investment
- Gain quality and cost improvements regardless of whether an application is built and maintained in-house, outsourced or co-sourced

**WHY CARE ABOUT INHERENT QUALITY AND SOFTWARE ENGINEERING?**

The short-term attention of many senior IT and business executives are currently consumed by business pressures such as improving costs and time-to-market, and conforming to functional and performance requirements. For customers and suppliers alike, real-world pressures mean that inherent code quality takes a lower priority to timely delivery, particularly as there is a perception that the business is sufficiently protected by testing tools and processes.

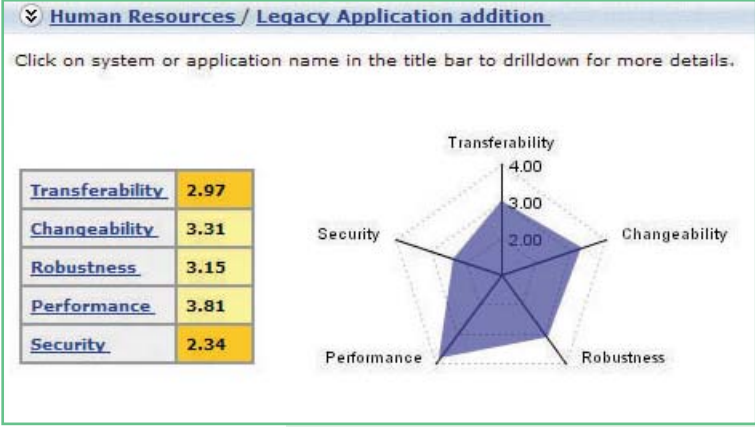
However, the IT industry has consistently demonstrated that a significant proportion of production incidents and the cost of ownership are rooted in the source code itself; and that many problems can be avoided by appropriate internal quality validation and action.

Naturally, the earlier this is done in the project lifecycle, the greater the impact on cost of ownership.

In the current dynamic environment of ever-changing business models and strategies, business-critical applications must remain easy to change and adapt if an organisation is to stay competitive in its own market and meet the ever-changing needs of its customers. The ease of change of an application or the ability to transfer the responsibility of its maintenance is a function of the inherent quality and engineering of the application. High internal quality of mission-critical applications is a strategic element bringing undeniable benefits to the business and preventing serious damage to business reputation and potential financial loss.

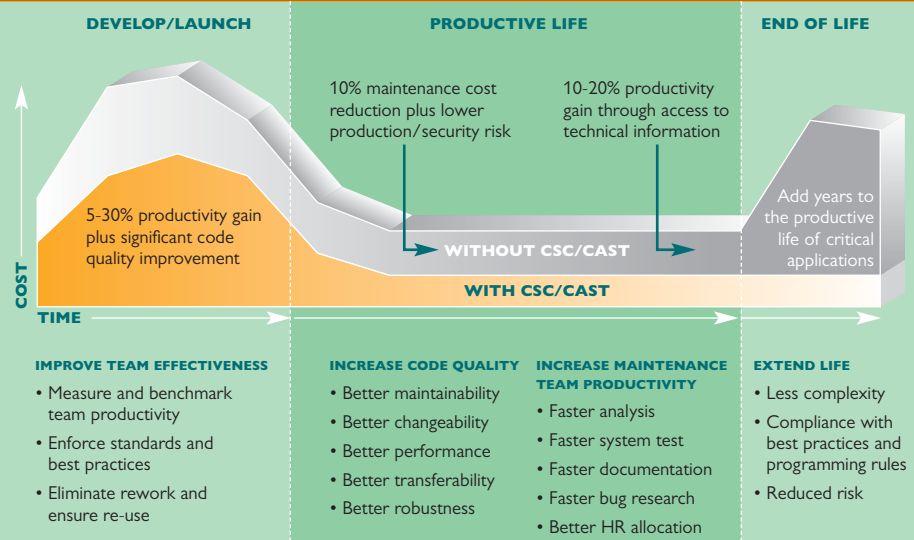
Benefits include a drastic reduction in the number of defects in production which in the long term will mean:

- More flexible applications
- More agile IT departments
- Measurable savings in maintenance budgets
- Much safer critical applications
- Improved performance measures of your software maintenance organisation



**A Snapshot View of an Application**

## Value of Application Intelligence on the Application Lifecycle



# INDUSTRY LEADING SOLUTION

CSC uses industry-standard best practices and metrics to rapidly ascertain the level of business risk associated with a business-critical application. This combined with CAST's detailed technical analysis capabilities and CSC's consulting expertise provides clients with detailed, actionable reports on the health of applications along with clear recommendations for suggested courses of action.

The entire project is delivered without the need to invest in licenses, hardware, staff training or the need to dedicate manpower on the project. The impact to your organisation is therefore minimal.

### A COMPREHENSIVE ANALYSIS

CAST's Application Intelligence Platform – the 'Software that knows Software'® – analyses the source code of your application and delivers hundreds of technical metrics including: size; technical complexity; best practice architectural, coding and documentation compliance; and application interfaces.

The solution automatically analyses every line of software code in complex business applications and provides the objective metrics and information needed to measure, monitor and control application assets.

CAST stores 'DNA' level metadata on the application in a knowledge base, and uses three analysis engines to transform the meta-data into metrics and information. One engine generates information on architectural and quality compliance, one generates application characteristics and metrics, and one generates on-demand electronic images of the application as well as a simulation of the technical consequences of any change to the application.

## Business Benefits

CSC's Applications Intelligence Services can be used either on a one off basis or part of an ongoing assessment and optimisation service enabling executives to:

- Assess how your application vendors are performing
- Identify how much redundant code you are paying for
- Understand what risks are associated with your applications
- Ascertain whether your applications are agile enough for change
- Know whether to keep investing in maintenance or redesign an application
- Identify which applications are good candidates for offshoring or outsourcing
- Identify which factors drive the total cost of ownership of applications

# The complete picture – **WAY FORWARD**

Based on the results from the CAST solution's application analysis, CSC provides a detailed report containing benchmark information that clearly identifies the areas of high risk of business impact or possible loss of competitive advantage within your application or applications. These risks are prioritised and incorporated into an action plan designed to deliver the greatest return on any application improvement investment.

You can be assured that you will receive the complete picture when it comes to your business critical application because the assessment covers the entire application, across all technologies and tiers.

You can also choose to run this service as a stand-alone exercise or part of an ongoing improvement effort, including application development and maintenance industrialisation efforts. Results from ongoing assessments can be compared with one another as well as with the initial benchmarking assessment.

## **WHY WORK WITH CSC AND CAST?**

For almost 50 years CSC has been a recognised world leader in the IT services industry. From front-end consulting and planning to systems integration and outsourcing, CSC's results-oriented services are created in close partnership with its clients. The services reflect a deep understanding of real-world business and technology challenges and have been proven on a long history of successfully executed projects.

With over half of its 87,000 strong workforce dedicated to software applications and with the average CSC employee bringing over 20 years of work experience, we really do understand the short and long term software application needs of senior IT and business management, and what needs to be done to meet them.

CAST is the acknowledged leader in the application portfolio management marketplace as recognised by major IT analyst firms such as the Gartner Group and Forrester Research. CAST is engineered to provide an in-depth and holistic view of software applications to help management gain better control of the health of their critical applications and the performance of their development teams.

CSC is a premier CAST partner and uses CAST to industrialise application delivery to its existing customers as well as offering an assessment-only service to other customers. Based on these successful projects, CSC and CAST have jointly developed the concept of the applications assessment centre in order to industrialise the production of high value application assessments from low cost delivery centres.

*If you would like to tap into the benefits associated with CSC's Applications Intelligence Services, please call +44 (0)1252 536871 or email [offshore\\_direct@csc.com](mailto:offshore_direct@csc.com).*

## **ABOUT CSC**

*Computer Sciences Corporation is a leading global IT services company.*

*CSC's mission is to provide customers in industry and government with solutions crafted to meet their specific challenges and enable them to profit from the advanced use of technology.*

*With approximately 87,000 employees, CSC provides innovative solutions for customers around the world by applying leading technologies and CSC's own advanced capabilities. These include systems design and integration; IT and business process outsourcing; applications software development; Web and application hosting; and management consulting. For more information, visit the company's Website at [www.csc.com](http://www.csc.com).*



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