

A Decision Making dashboard to manage project quality

The Objectives

Infoscope Source provides the essential top-level layer to consolidate your company's Key Performance Indicator (KPI) and to help implement new metrics and indicators coming from accepted norms and standards. These quality indicators are unbiased and easily adaptable to any specific context, from classical software development to embedded system projects with strong normative constraints.

Reduce Maintenance Cost

Infoscope Source rates the quality of all source code and helps to control the Technical Debt, independent of any technical constraints. Thus enabling more time to be allocated for innovation and development of new features.



Quality as a Standard

Infoscope Source can be applied at any time and milestone within a project. It completes a synthetic view of all aggregated measurements together with data resulting from other tried and tested tools. From the project manager to the developer, from the project owner to the contractor, everyone benefits from its up-to-date management indicators, improving the confidence and collaboration between all players.

QA throughout Life-Cycle

Infoscope Source covers all steps of the software development Life-Cycle. From specifying quality requirements and enforcing best practices with software rating, to generating action plans and code reviews.

Decision Making Assistant

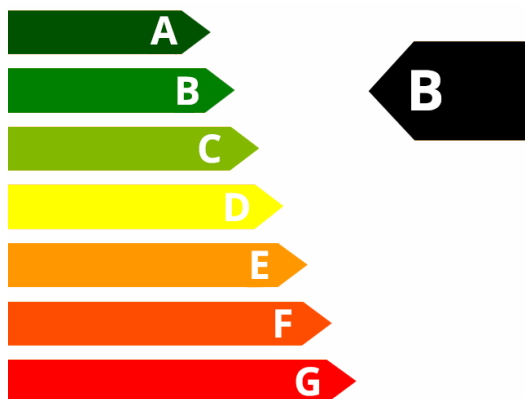
Infoscope Source gives project managers and project leaders a unique overview of the quality of all projects at a glance (e.g. Business Value/Quality Rating chart). Infoscope Source aids managing the priorities and facilitate project follow-up. Additional predictive trend analyzers monitor the distance between the project's progress and its objectives; enabling anticipation of any deviations.

Empower Development Team

Enforcing quality assurance models in the development team does not only help to improve the source code, but also gives the developers the opportunity to improve their technical skills and rationalize future development work. Infoscope Source is always up-to-date with the latest programming language enhancements.

Straight Forward and Intuitive Navigation

The global project note is denoted by a graded colour chart with letters from A to G, just like Energy Performance Certificates, indicating the global quality of a project. The end-user can browse the line of code to be fixed after just 3 clicks from within the global rating.



Integration and Interoperability

Infoscope Source can process a wide variety of programming languages, supports many data providers and can be executed manually and/or be integrated into a Continuous Integration environment. Data from all of your other engineering tools, already-in-use, can be easily aggregated. E.g. rule checkers, dynamic analyzers, bug trackers, configuration or requirement management systems.



Infoscope Source is the essential top-level layer to automate software quality rating and provide decisionmaking dashboards.

Technical Debt as High ROI Indicator

Evaluate and efficiently reduce the Technical Debt by identifying objects with high remediation factors. Maintenance costs are minimized. Quality and reliability of software products are improved.

Quality Model

Software products are rated according to the following indicators: complexity, adherence to standards, non-conformity, risky construction, code cloning, test coverage and test effectiveness.

The Quality Model can be browsed and, if required, easily enhanced by the administrator, e.g. to consider all feedback, discussed and validated by the team.

Personalized Information and Collaboration

Information is centralized. Testers, Developers, Managers as well as external or independent staff e.g. suppliers and auditors benefit from role-based dashboards with intuitive charts dedicated to the individual business.

Partners, clients and third-parties receive all information tailored exactly as required in standardized formats generated from customizable templates.

History

Compare analyses and detect deviations and regressions from previous versions immediately.

Regularly build the history from a tag or given commit number after a given time interval; ideal for Agile project management.

Build the Optimal «TODO list»

Automated Defect Report generation based on a powerful user customizable decision criteria engine.

Intuitive and Secure Web Interface

Facilitate access to the relevant information. For instance, the end-user can select any violation and open the corresponding defective source code in a browser with syntax colouring within a few clicks. Dashboards can be easily managed by the product Administrator.

Any changes will be systematically validated by Infoscope Source.

Compliance with International Standards

Infoscope Source complies with the main following norms and standards, e.g. **ISO/IEC 9126/25010, SQALE, MISRA, CMMI, HIS, GSWs, NASA...**

Supported Programming Languages

Integration of fast and easy-to-run source code analyzers for: **ABAP, Ada, C, C++, C#, COBOL, Java, JavaScript, Objective C, PL/SQL, PHP, Python, VB...**

Supported Providers

- Java: **PMD, Findbugs, Checkstyle, Junit, Jacoco...**
- C/C++: **AntiC, CppCheck, GCov...**
- JavaScript: **Eslint, Jshint, Karma...**
- Other tools: **SonarQube, Coverity, Klocwork...**

Supported Repository Connectors

Supported Revision Control System: **ClearCase, SVN, Git, TFS, MKS, Perforce, CVS, Synergy.**

Infotel SA

Tour Gallieni II, 36, Av. du Général de Gaulle 93175 Bagnolet Cedex FRANCE

+33 (0)1 48 97 38 38
software@infotel.com