

Open Metrics on programs – QA-me is offered with open metrics, that, even if they do not reflect specific market standards, are focused on giving further interesting elements of analysis and valuation of its own portfolio:

- **Fan-in/Fan-out:** Metrics based on the number of functions or programs that require other functions or programs
- **Software Age:** Metrics focused on determining indicators of the application's age.

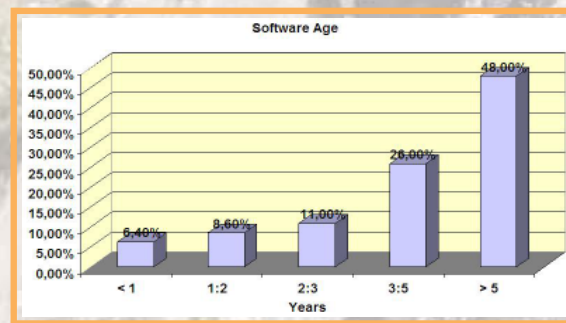


Fig. 5 - Traffic change by years of life of the application.

**Metrics on production objects:**

The metrics implemented by the QA-me for the production objects are of both a dimensional and structural nature and are focused on giving valuation elements on the management and architectural complexity of subsystems.

**JOB**

- Number of steps
- Number of DDs
- Number of referenced datasets
- Number of PROCs
- Number of steps performing updates
- JOB maintainability index.

**NET**

- Number of links in the batch schedule
- Number of external links
- Number of operations
- Number of jobs.

OPEN METRICS FOR TWS NETS			
NETNAME	KEYWORD	DESCRIPTION	VALUE
AC9USCALEUR	ELNK	NUMBER OF EXTERNAL LINK	4
	ILNK	NUMBER OF INTERNAL LINK	2
AC9USCA2EUR	ILNK	NUMBER OF INTERNAL LINK	9
AC9USCA3EUR			

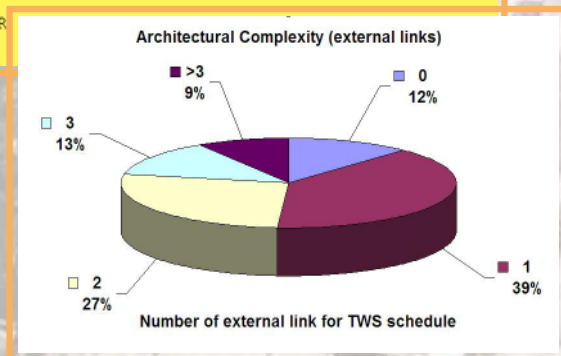


Fig. 4 - Metrics on Production objects

**Quality controls performed by QA-me**

By putting the QA-me components in the lifecycle of the applicative and production objects allows to immediately use the data from the measurements performed even according to a punctual control of the object quality in regards to the characteristics towards which the metrics are focused.

As previously stated, the controls available are activated through the same "rules driven" engine that forms the QA heart, and then can be parametrized on different aspects, such as:

- The chance to selectively activate/deactivate the checks
- The indication of threshold values that determine the level of acceptance of the object in regards to a specific control
- Attribution of the "severity" of the action as a consequence of the violation of the rule under control
- Additional user-defined checks.

**The Openings**

In summary, the fundamental responsibilities of the QA-me are:

- the measurement of system objects based on conventional and open metrics
- the recording and the historicity of the data from the measurements
- the quality controls on objects on the basis of what the measurements found

Regarding the use of data produced, this is solved by the QA-me system immediately, effectively and essentially, thanks to the reports and, above all, the export functions.

We need to point out that it would be limiting to just say that the capabilities of the fruition of the data knowledge is only this. Data knowledge that in time activates the Hpl/QA-me and PE/QA-me components.

The natural complement to QA-me on the statistical historical and provisional analysis of the measurements data will be OASI. OASI is the next RES Object Analysis architecture, in the Quality Assurance area, that will be available with the 3.1.1 RES Suite version.

**Prerequisites:**  
OS/390 2.10 or z/OS 1.1 or higher  
DB2 UDB V6 or higher.

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QA-me

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