

Quality Assurance Managed Services Solution

June 2021

Verita

Quality Engineering Platform

Verita Overview

Quality Engineering Platform and Dashboard with Predict Capabilities



Verita

Verita comes with the ability to analyze data and provide data from the following viewpoints:

Descriptive

Diagnostic

Predictive

Prescriptive

Verita is role-based system, catering to the needs of diverse stakeholders inside the enterprise with a holistic view of

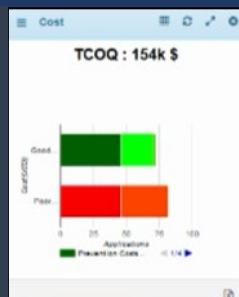
Release Readiness



Lead Time



TCOQ



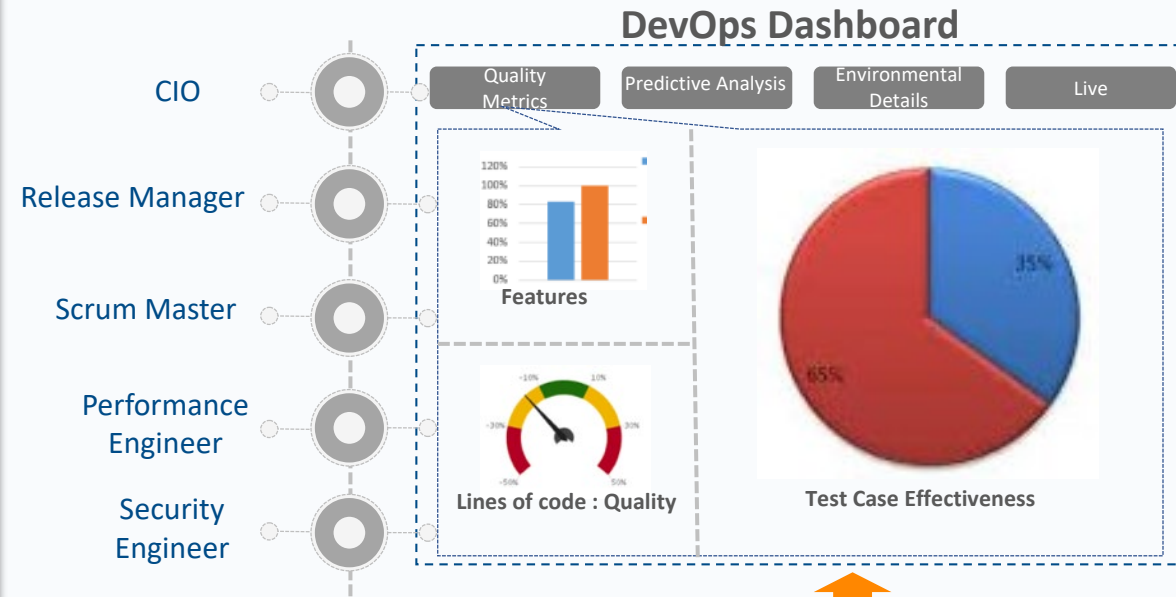
Quality



Customers Effectively Monitoring QA using Verita



Role Based



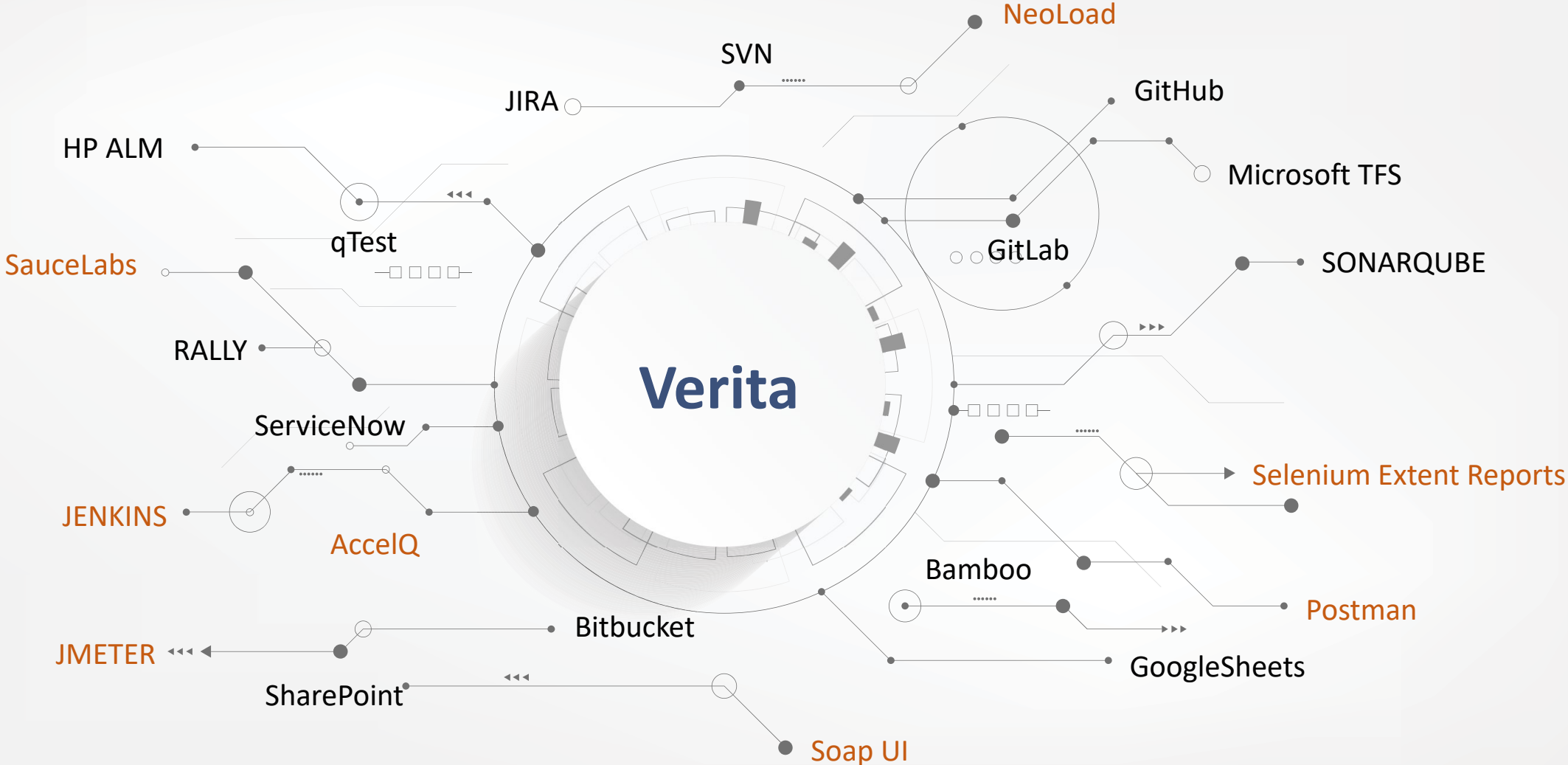
Integration with current tools



Data Sources



Available Connectors



Predictive Analytics

Prediction Models

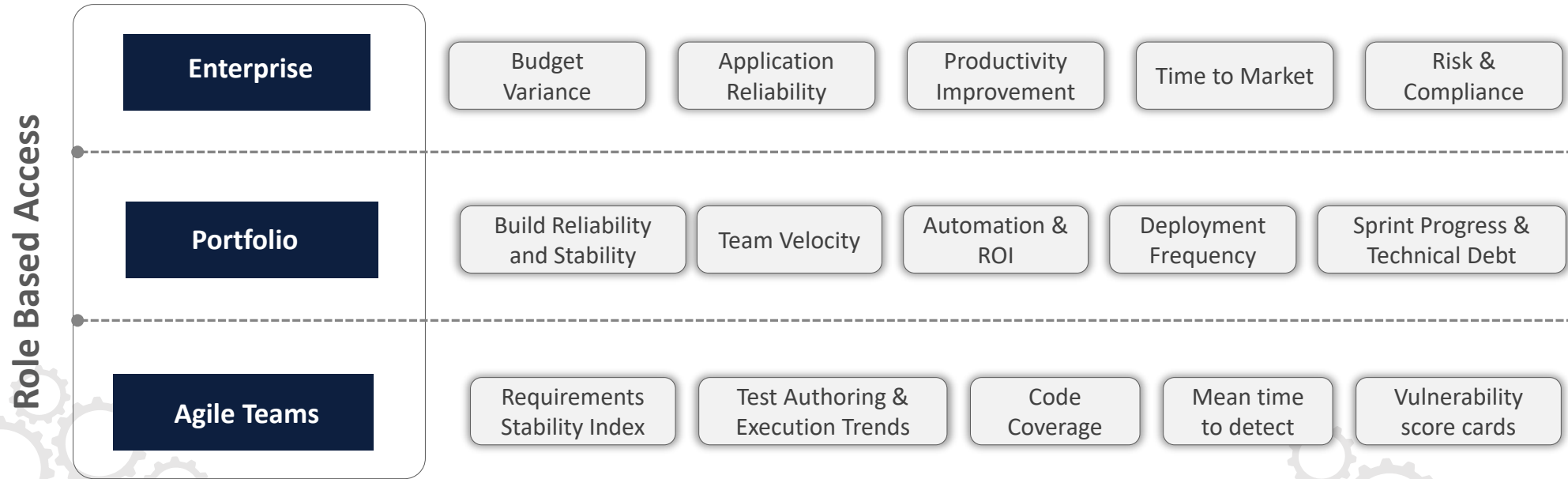
1. Total Defects in next Release
 - Percentile breakup by Pre-release and Post release
 - Percentile breakup by Severity
 - Percentile breakup by Module
 - Percentile breakup by Files
 - Percentile breakup by Tests authored vs not authored
 - Percentile Noise/False Positives
 - Percentile by Users Logging the defects
2. Coverage/Component Failures
 - Requirement related
 - Module/Component related
3. Defects Arrival rate vs Closure rate (MTTD vs MTTF)
4. Prescriptive Analytics for High-risk areas (files/modules)
5. Workload Model / Capacity Planning



Influencing Factors

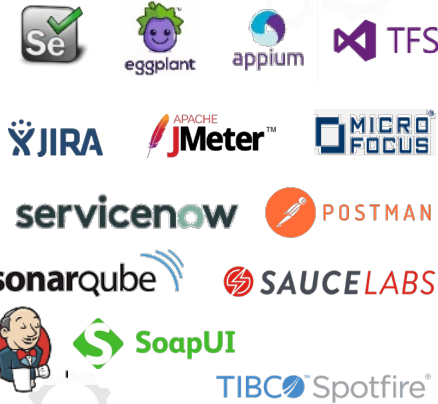
- Historical Defects Release on release with break up on
 - Pre or post release
 - Severity
 - Modules
 - Files
 - Tests Planned/Executed/Passed/Failed
 - Count of Defect Noise
 - Defects Logger
- Requirements count
 - RSI
- Count of Commits/user
- Code Churn
- Code Complexity
- Number of LOC
- File Dependencies.... And more based on customer data.

Role based Dashboards



TOOLS

Compatible with market leading Build, QA, Release tools (open source and commercial)



Key Features

- ✓ Role based dashboards with customized widgets
- ✓ Real-time KPIs
- ✓ Open APIs to connect market leading testing tools
- ✓ Predictive Analytics – defects, Incident and false positives
- ✓ Test execution metrics with deep dive RCA



Outcomes

- ✓ SLA driven delivery
- ✓ Visibility on applications' health progress
- ✓ Faster decision making
- ✓ Improved Time to Market
- ✓ Organization-wide automation coverage and trends
- ✓ Applications' performance coverage and visibility charts
- ✓ Test Efficiency and reliability metrics

Measuring DevOps Success

Measure

Velocity

Quality

Security

Performance

Business Value

User Experience



Governance

Total Cost of Quality
(Actual vs Deferred)

Culture

Effectiveness

Delivery Efficiency

SLA/OLA adherence

End-User
Satisfaction

PLAN

BUILD

TEST

DEPLOY & OPERATE

- ✓ Requirements Ambiguity Index
- ✓ Requirement Stability Index
- ✓ Schedule Variance
- ✓ # of Features Planned
- ✓ Estimated Story points
- ✓ Team Velocity
- ✓ Sprint progress

- ✓ Unit test pass percentage
- ✓ Code Coverage
- ✓ Build Success / failure rate
- ✓ Mean Time Between Failures
- ✓ Defect status by severity
- ✓ Idle Time
- ✓ Build Lead Time
- ✓ Technical Debt
- ✓ # of Pull requests

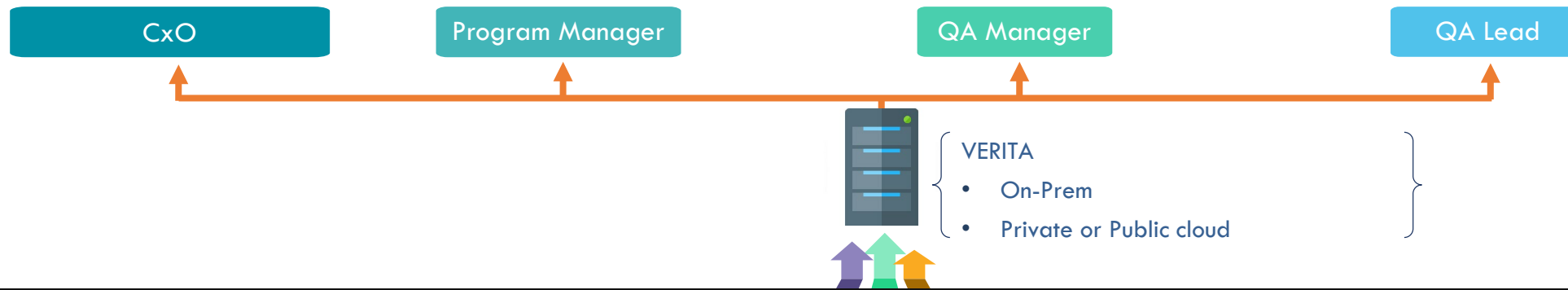
- ✓ Test Coverage
- ✓ Test Pass rate
- ✓ Test execution throughput
- ✓ % Automation Coverage
- ✓ Test Case Effectiveness
- ✓ Defect Arrival vs Closure
- ✓ Defect Removal Efficiency
- ✓ Vulnerability Index
- ✓ Mean Time To Detect/Fix
- ✓ Quality Index
- ✓ Release readiness
- ✓ Automation ROI

- ✓ Deployment frequency & duration
- ✓ Deployment success rate
- ✓ # of Features Delivered
- ✓ # of Roll-backs
- ✓ Change failure rate and volume
- ✓ Mean time to recovery
- ✓ Lead/Cycle Time
- ✓ Application availability
- ✓ Resource Utilization
- ✓ % of change in user volume
- ✓ Customer ticket volume

Sample Dashboard (1/3)

- ✓ **Real time insights** – Less time spent on pulling together data from disparate sources
- ✓ **Accuracy** – Make informed decisions on accurate information
- ✓ **Employee satisfaction** – Stakeholders focus on finding answers to relevant questions and not on wrangling data and time-consuming report creation

- ✓ **Reduce costs** – Defect prevention, Defect detection, Defect resolution, Regression testing costs
- ✓ **Improve time to Market** – Test cycle duration, Defect aging, Development velocity, Early defect
- ✓ **Increase revenues and client satisfaction** – Reduction in post-production defect density, Ability to release new features quickly



Sample Dashboard – 360° View to Value Creation (2/3)



Sample Dashboard – (3/3)

