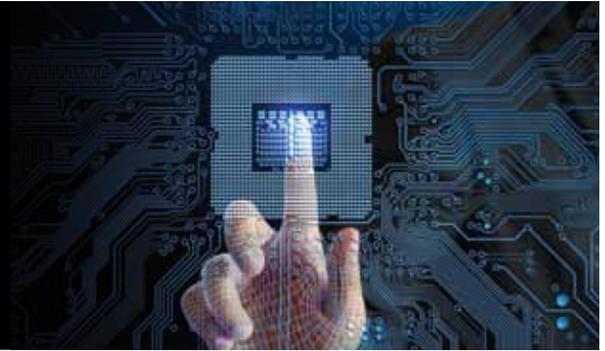


# INTELLIGENT SUSTENANCE ENGINEERING



Intelligent Sustenance Engineering (iSE) is the industry's 1st & only analytics-based approach to software engineering. Its application to sustenance engineering allows better process efficiencies, cost effectiveness and an accelerated TTM.

## BUSINESS CHALLENGES

- Inefficient manual processes across sustenance projects (bug triage, new test cases or ticket creation)
- Longer escalation-to-fix timeframes
- Inadequate risk analysis and planning leading to project slippage
- Higher cost of product sustenance

## DIFFERENTIATOR

Industry's 1st analytics based approach to software engineering

Leverages HCL's engineering execution excellence

An easy-to-use SaaS framework with convenient API for

Brings unique execution efficiencies across software engineering projects

Leverages proven analytics-driven algorithms for data extraction &

## KEY FEATURES

**Transition takes from 6 months to a year**

- Knowledge Engineering feature helps create training documents for quick transitions and identified feature hotspots
- Identify critical areas of code that HCL teams can focus on during transition

**Identify part of code which needs to be changed to resolve these bugs**

- Identify high risk code paths during code fix, this leads to increase in stability & lowers test case failures
- Identify part of code which needs to be changed to resolve bug
- Automatically identify test burden for a code change which leads to better planning and lower's test burden

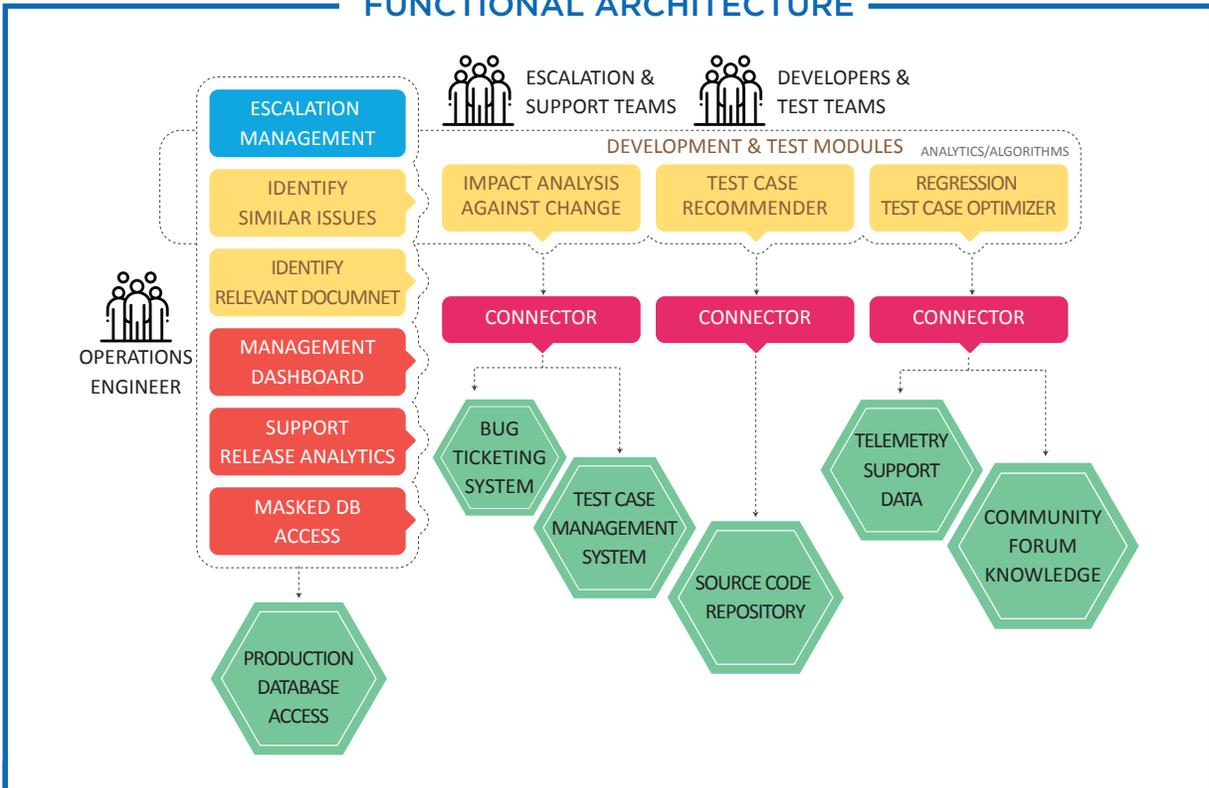
**Test burden on test teams is increasing**

- Reduced test duplication, increase test relevance and improve code coverage
- Identify test cases for testing intermediate builds and releases
- Identify part of the code responsible for test failure – Defect localization

**Improve test case sufficiency**

- Capture defects for which test cases do not exist
- Identify test cases that need to be modified to capture the orphan defect

**FUNCTIONAL ARCHITECTURE**



**BENEFITS OF INTELLIGENT SUSTENANCE ENGINEERING**

<b>DUPLICATE BUG DETECTION</b>	Avoids duplicate bug creation by 10%	<b>QUICK ISSUE LOCALIZATION</b>	Reduce bug fix time by 20%
<b>TEST BURDEN ANALYSIS</b>	Ensures 80% on-time release cycles	<b>INTERMEDIATE BUILD PLANNING</b>	Eliminates test planning time by 10%
<b>FULL REGRESSION PLANNING</b>	Reduce the regression test time by ~15%	<b>ORPHAN DEFECT FINDER</b>	Eliminates unmapped CFDs by 25%

Percentage (%) benefits are by design

CFD = Customer Found Defect



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