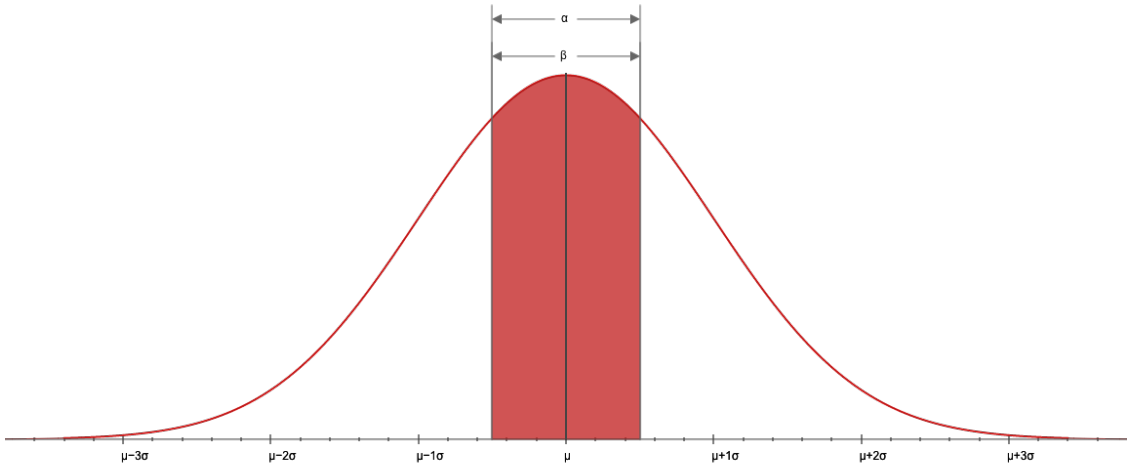
TEstimator - Testing Estimator - Type 1 (LEstimate)

System Testing + System/s Integration Testing

Quality Assurance Strategy



Scope

User Stories	5
Functional Processes	25

Quality Assurance Architecture

Conversion Ratio	5
DIT's per Test Case	10
Applied Calibration Factor	1
Applied Risk Quotient	0%

Risk Management

Risk Exposure { β }	38.29%
Functional Processes under Development	
Risk Mitigation { α }	38.29%
Probability of finding at least one Defect	
System Unaffected	61.71%
Functional Processes Unaffected	
Test Case & Defect Complexity	20%
Test Coverage of Development	100%

Estimates

Progression

Dynamic Information Tests (DIT's)	126
Test Cases	13

Regression

Manual Regression Suite from 13 Test Cases = 13

This represents 100% of 13 Test Cases

Automated Regression Suite from 13 Test Cases = 13

This represents 100% of 13 Test Cases

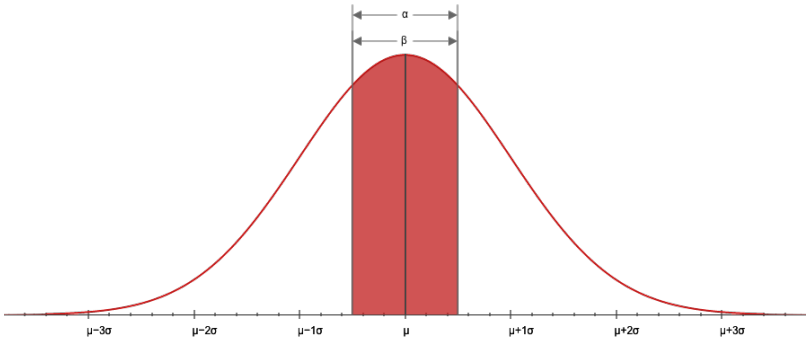
Testimator Type-1

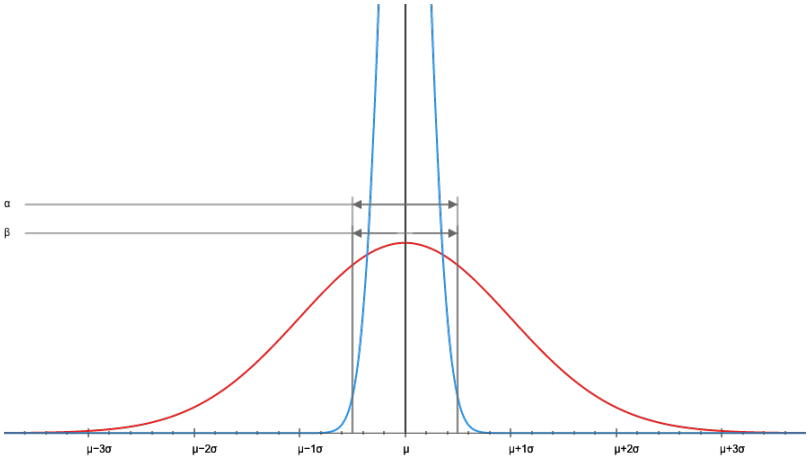
Scope

Test Cases: Rounded Value	13		
Functional Processes	25	Calibration Factor	1
Risk Quotient	0%	DIT's per Test Case	10
Test Execution Approach	Critical, High, Moderate & Low Priority Tests		

Analysis

Risk Exposure { β }	38.29%	Risk Mitigation { α }	38.29%





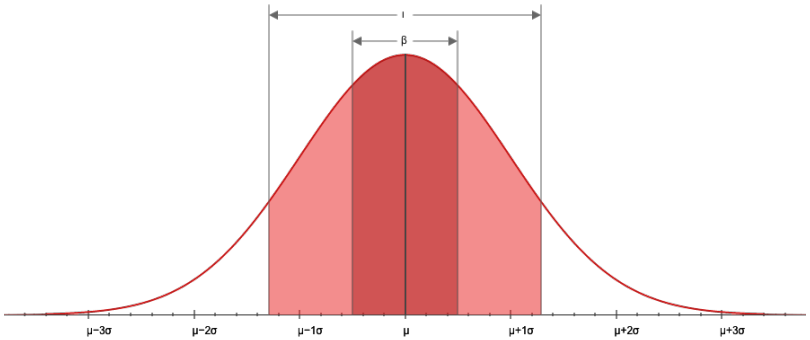
Alternative Estimate

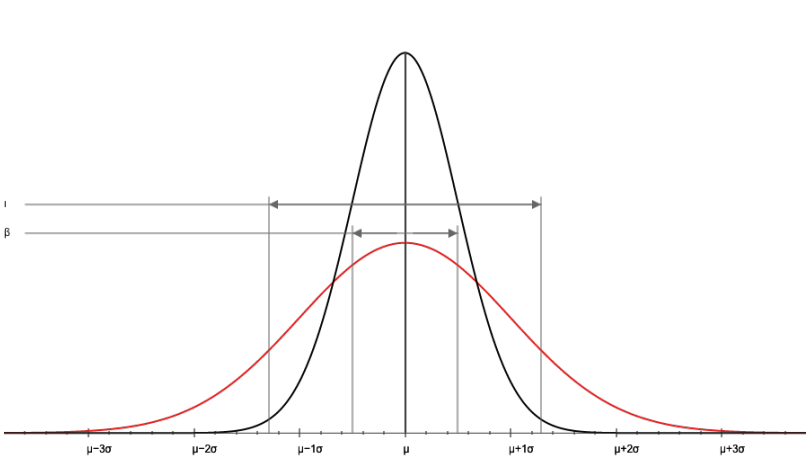
Scope

Test Cases: Exact Value	83		
Functional Processes	25	Calibration Factor	0.2502
Risk Quotient	49.98%	DIT's per Test Case	10
Test Execution Approach	Critical & High Priority Tests		

Analysis

Risk Exposure { β }	38.29%	Risk Mitigation { ι }	80.24%

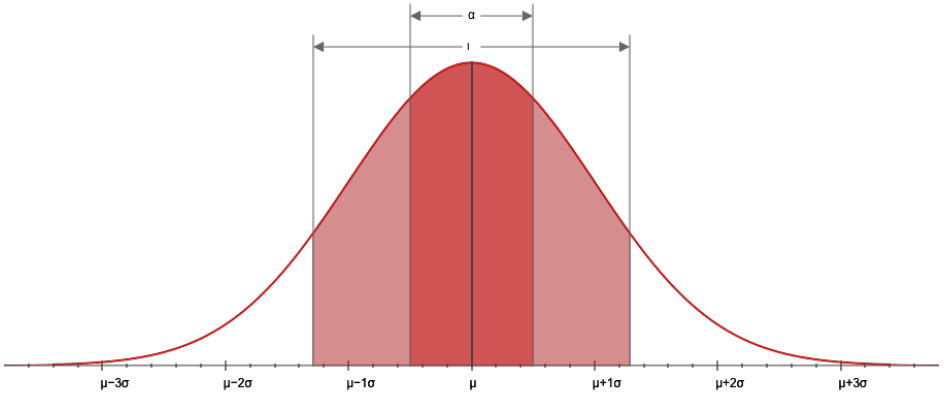




Estimation Similarity

Risk Mitigation { α }	38.29%
Risk Mitigation { ι }	80.24%
Estimation Similarity by Area	38.81%

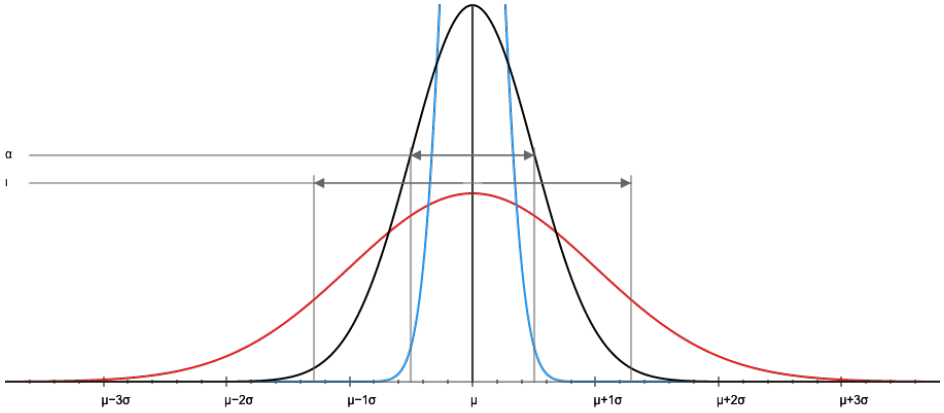
The information above conveys the Similarity between a User Defined Estimate & an Alternative Estimate based upon probability (area beneath each curve). It is possible for the 'Estimation Similarity by Area' to differ from the 'Estimation Similarity by Test Case Population' because it incorporates the Test Approach previously defined by the User. However, the Test Approach associated with the Alternative Estimate is assumed to be Ideal



α = Testimation Estimate ι = Alternative Estimate

Risk Mitigation { α }	38.29%
Risk Mitigation { ι }	80.24%
Estimation Similarity by Test Case Population	15.66%

The information above conveys the Similarity between a User Defined Estimate & an Alternative Estimate based upon Test Case Population. It is possible for the 'Estimation Similarity by Test Case Population' to differ from the 'Estimation Similarity by Area' because it does not incorporate a defined Test Approach; the Test Approach associated with the Alternative Estimate is assumed to be Ideal



α = Testimation Estimate ι = Alternative Estimate

Scope

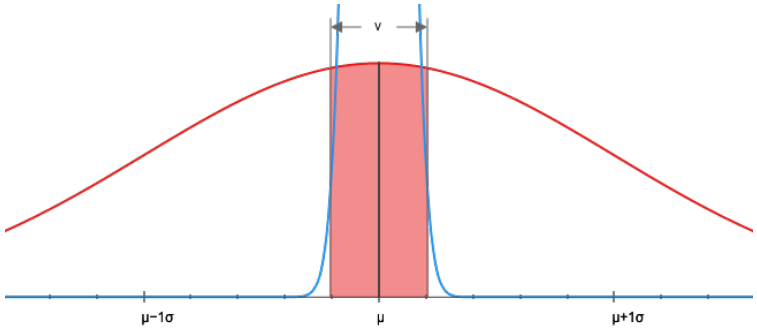
Test Case Repository	332
Projected Impact	20%
Sampling Confidence	95%
DIT's per Test Case	10

Analysis

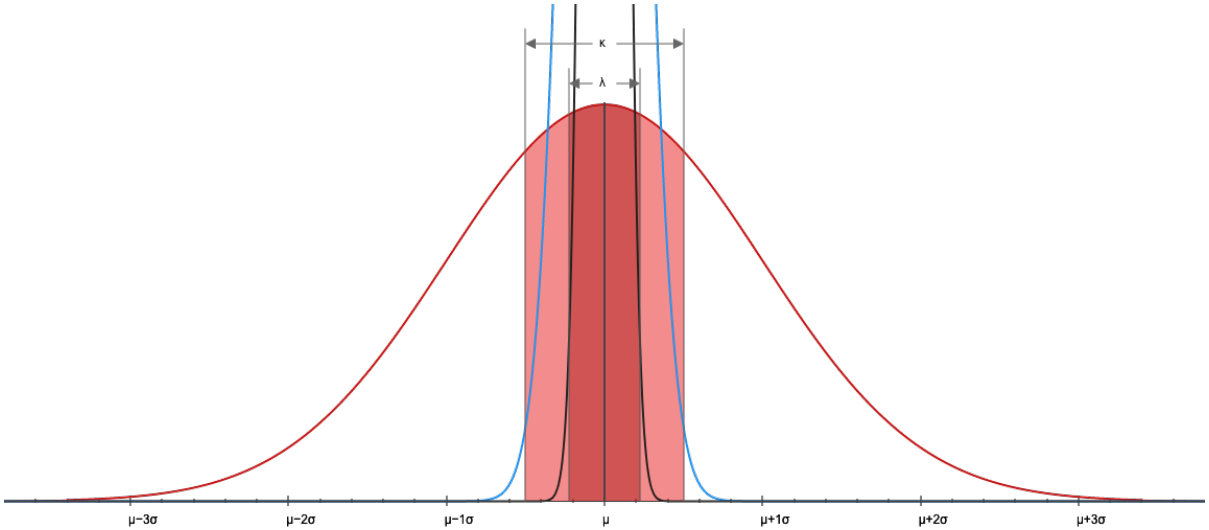
Functional Processes associated with Test Case Repository	26
Functional Processes impacted by Project	6
Test Cases impacted by Project	67
Test Case Repository Coverage { κ }	38.31%
Test Cases Impacted by Project { λ }	17.7%

Sampling Distribution

Functional Processes	5
Test Cases	57
Risk Mitigation { v }	16.38%



v = Sampling Distribution



κ = Test Case Repository Coverage

λ = Test Cases Impacted by Project

PEstimator - Project Estimator

Universal Testing

TEstimator Type-1

Type-1		Type-1	
Functional Processes	25	Test Cases	13
REstimator		REstimator	
Functional Processes	5	Test Cases	57

WorkFlow

Manual		Automated	
Progressive Testing	70%	REstimator Test Cases	0%
Anticipated Test Case Failures	50%		
Resources	1		

Average Tester Resourcing over Quality Assurance Life-Cycle

Progression per Resource

Progressive Test Case Design Throughput	2
Progressive Test Case Execution Throughput	10

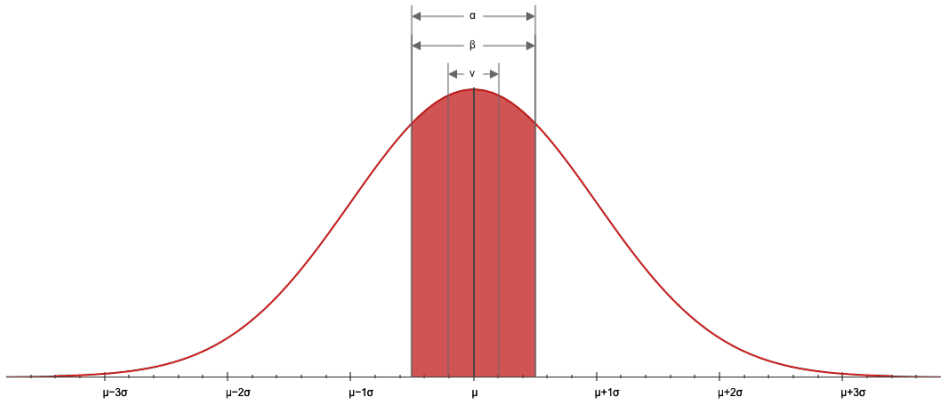
Regression per Resource

Regressive Test Case Modification Throughput	4
Regressive Test Case Execution Throughput	6

Progression Test Coverage of Development is calculated differently to the Regression Coverage. This is due to the fact that the Progression Test Approach incorporates effects upon the Standard Deviation arising from the application of Risk Quotient & / or Calibration Factor. Regression Tests are drawn from an existing repository which is independent of the effects of Standard Deviation relating to the Estimation Tool; therefore a simple ratio of areas is applicable

Analysis

Risk Exposure { β }	38.29%
Risk Mitigation { α }	38.29%
Risk Mitigation { v }	16.38%
Progression Test Coverage of Development	100%
Regression Test Coverage of Development	42.78%



β = Development α = Progression Testing v = Regression Testing

Quality Assurance Breakdown	Test Cases	Man-Days	Man-Weeks	Man-Months
Progressive TEstimator Test Cases to be Designed	10	4.55	0.91	0.23
Regressive TEstimator Test Cases to be Modified	4	0.98	0.20	0.05
TEstimator Test Cases to be Executed	13	1.30	0.26	0.07
REstimator Test Cases to be Executed	57	9.46	1.89	0.47
Anticipated Defects	35	5.81	1.16	0.29
Total Executable Test Cases	**105**	**22.09**	**4.42**	**1.10**