

# Quality Assurance Managed Services Solution RFP

March 2021

# ◆ Agenda

- ❖ **Meet Our Team**
- ❖ **About Cigniti**
- ❖ **Solution Highlights & Cigniti Enablers**
- ❖ **Cigniti Qualifications**
- ❖ **Technical Experience**
- ❖ **Proposed Solution**
  - **Implementation Plan**
  - **Transition and Rebadging Approach**
  - **Staffing Plan**
  - **Innovation and Proprietary Tools**
  - **Efficiencies**
- ❖ **Appendix**

# Introductions



**Kalyan Rao Konda**  
President



**Raghuram Krovvidy**  
EVP Global Delivery



**Matthew Shapiro**  
Vice President, Sales



**Octavio Garcia**  
Head, Telecom CoE



**Ravi Sindri**  
Principal Manager



**Goutham Pingle**  
Offshore Delivery Director



**Sourabh Chongdar**  
Director Enterprise Solutions



**Sujit Nair**  
Director Enterprise Solutions

# About Cigniti

# Corporate Overview



Quality Engineering and Digital Assurance Services Provider in North America



Quality Engineering



Digital Assurance



Advisory & Transformation



2500+ Professionals



150+ Active Customers



20+ Years in Business



22 Customers in Countries



50+ Fortune 500 Clients



75+ Managed QA Services Engagements



Cigniti's Next-Gen Software Testing Platform

Verita | Velocita | Praxia | CESA | INSta | Prudentia | Cesta | InCight



Founding member and key contributor in developing Test Maturity Model integration (TMMi®) process framework



"Niche Player" Gartner Magic Quadrant

"Leader" in NEAT chart NelsonHall

The Forrester Wave™: Continuous Testing Service Providers

"Major Contender" Everest Group PEAK Matrix™



# Frontier Objectives & Cigniti Enablers

# Frontier Objectives and Cigniti Enablers

01

**Align the organization with current industry trends and standards in software testing**

- Quality assurance model that incorporates best practices and industry trends including shift left and shift right principles and is integrated throughout the development and deployment process
- Founding Member and key contributor in developing Test Maturity Model integration (TMMi®) process framework and defining key testing standards

02

**Agility to adapt testing to project prioritization changes and fast-moving initiatives**

- Establish a cross-functional, collaborative environment
- Implementing collaborative planning across the key projects
- Effective change and risk management practice
- Core-flex staffing model with ability to scale as needed

03

**Scalability to support multiple releases and testing efforts with ease**

- Core-Flex staffing model with ability scale as needed to support multiple releases and testing efforts
- Bench strength of 250+ certified career testers to support QA demands
- Bench resource shadowing in projects for low cost & accelerated resource onboarding

04

**Advance the QA into cutting edge tools, people, and process**

- Access to as needed to support multiple releases and testing efforts
- Cigniti next gen testing platform BlueSwan™ – Accelerate test efforts through use of cutting edge tools and techniques around AI/ML, Predictive modelling etc.

05

**Acceleration of test planning and execution to support faster overall SDLC delivery to align with executive and consumer expectations in the industry**

- Continuous testing approach incorporating all elements of shift left and shift right principles including building automated testing pipeline
- Implement dual shift techniques including requirements ambiguity testing, automated code profiling, automated functional and non-functional testing etc.) to accelerate test planning, execution, and reporting

06

**Improved Test coverage, traceability and execution for all types of system testing**

- Extensive catalog of services for functional and non-functional testing, quality engineering services, digital assurance services etc.
- Frameworks to maintain traceability and track test coverage
- Best practices in test design techniques to improve and ensure optimal test coverage

# Frontier Objectives and Cigniti Enablers

07

**Move to an automated first approach with manual execution as a last resort**

- Successfully delivered 150+ test automation engagements
- Dedicated Automation Test Center of Excellence for Test Automation Framework Standardization, End-to-end test automation framework for UI, API, Data, Backend tests across multiple technologies, Automation Suite Development, Execution & Maintenance, Test Automation Feasibility, Prioritization and ROI analysis to implemented automated first approach for Frontier
- Focus on early and in sprint automation

08

**Integrate with DevOps CI/CD integration processes and within the organization**

- Well-established frameworks for implementing CI/CD enabled testing pipeline
- Pre-built integrations with DevOps and ALM tools such as JIRA, Jenkins, Spotfire, etc.

09

**Metrics, Reporting, and Visibility through KPIs at all stages of testing and for all levels of the organization**

- BlueSwan™ Verita – Role based Quality Engineering Dashboard with 150+ metrics
- Comprehensive view of key metrics such as Defect Trends, Cost of Quality, Productivity, User Experience Sentiment, Return on Investment (ROI), Test Coverage, Test Execution Cycle Time, Release and Quality Compliance

10

**Partner with FTR to drive cultural change for QA but also with other areas of the organization**

- Well defined Change Management process to drive organizational culture of quality with focus on key impact areas, communication management, planning and training, formalized QA policies and processes, establishing formal quality controls and continuous improvement practice

11

**Keep the quality of our customers experience, and our business applications as priority #1.**

- Cigniti's BlueSwan™ InCight and CESA tools for analyzing customer experience
- Continuous user experience monitoring framework



# Cigniti Qualifications

# Cigniti Qualifications – Managed Testing Services

75+

Successful enterprise-wide Managed QA transformations



Leader in Quality Engineering, AI, and Continuous Testing capabilities

(NEAT) chart 2020


























































## Key Frontier Objectives

QA Transition	Resource Rebadging	SLA based delivery	Align with industry trends	Improved QA Visibility	Accelerated test planning & execution	QA Advancement (people, tools & processes)	QA expansion across portfolio	Automation – First Approach	QA integration with CI/CD	Agile and Shift-left testing	Improved customer experience	Test Data & Environments	Integration/Progression Testing	Data Migration/ Scrub Testing	Regression Testing	Performance Testing CoE Setup	User Acceptance Testing	Data Migration/ Scrub Testing	Security Testing	Ad-hoc / Usability Testing	Defect triage and Test Documentation	Continuous Improvement
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 A leading CSP company offering Fibre broadband, digital TV, landline phone and mobile services Duration: 5+ years Peak Team Size: 35+	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 A multinational mobile telecommunications company Duration: 3+ years Peak Team Size: 20+	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 An American broadband communications provider Duration: 4+ years Peak Team Size: 30+	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 One of the World's leading Airlines Duration: 5+ years Peak Team Size: 178	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 UK's first digital only bank without branches Duration: 5+ years Peak Team Size: 60+	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 American environmental services company Duration: 3+ years Peak Team Size: 75+	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 A leading Quick Serving Restaurant Duration: 4+ years Peak Team Size: 40+	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Technical Experience**

# Cigniti Technical Experience – Technologies

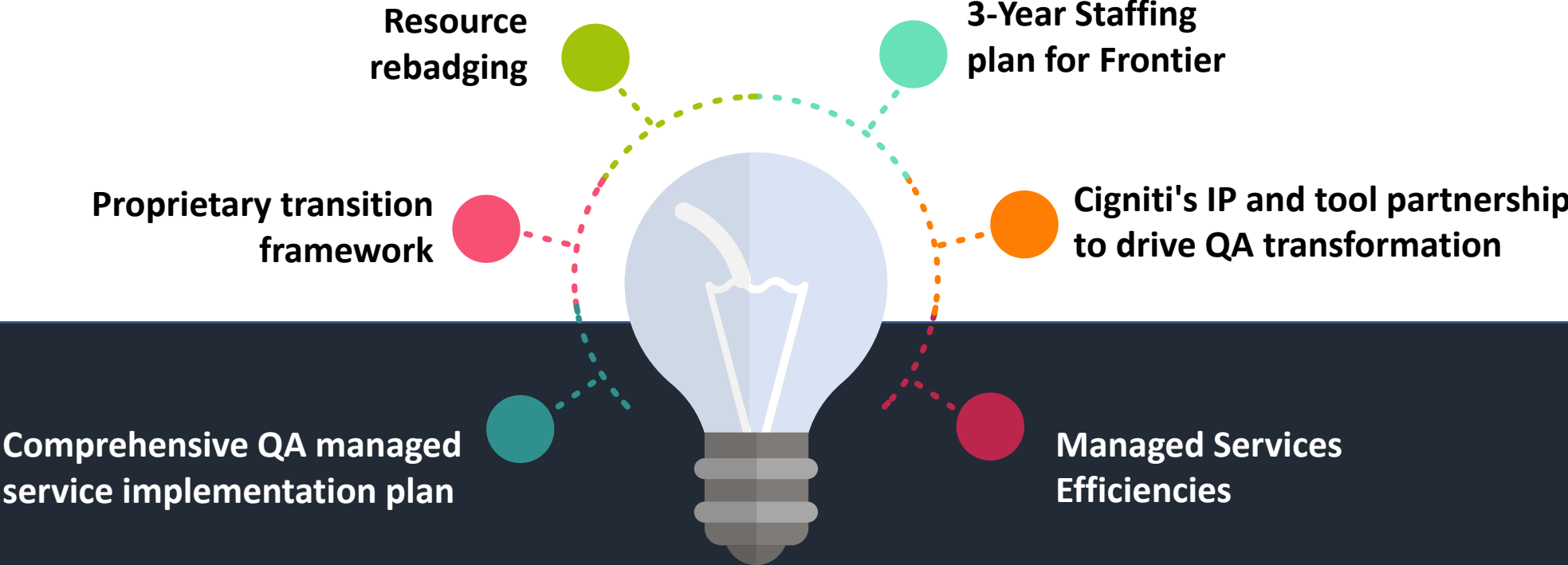
Technologies	Resource Strength		Key Clientele
	Total	Bench	
OSS systems – <b>Ericsson, Blue Planet</b> AMDCOS, Netcracker, etc. (15+ Engagements)	250+	20	     
BSS systems – <b>Sterling, Salesforce,</b> Sigma, Ericsson, AMDOCS, etc. (25+ Engagements)	400+	32	      
Digital Experience – <b>Sitecore,</b> Adobe, BMC, etc. (20+ Engagements)	300+	24	      
Customer Management – <b>Pega, Avaya, Genesys, etc.</b> (25+ Engagements)	450+	36	       
Middleware and APIs – <b>TIBCO,</b> <b>Apigee, MuleSoft, etc.</b> (40+ Engagements)	250+	20	      
ERP systems – <b>Infor, SAP,</b> Oracle, Dynamics 365, etc. (70+ Engagements)	500+	40	      
EDW – <b>Oracle, Teradata,</b> MongoDB, etc. (150+ Engagements)	450+	36	       
ETL, BI & Reporting - <b>Informatica,</b> Tableau, MS BI, SAP BO, etc. (150+ Engagements)	250+	20	      

# Cigniti Technical Experience – Tools

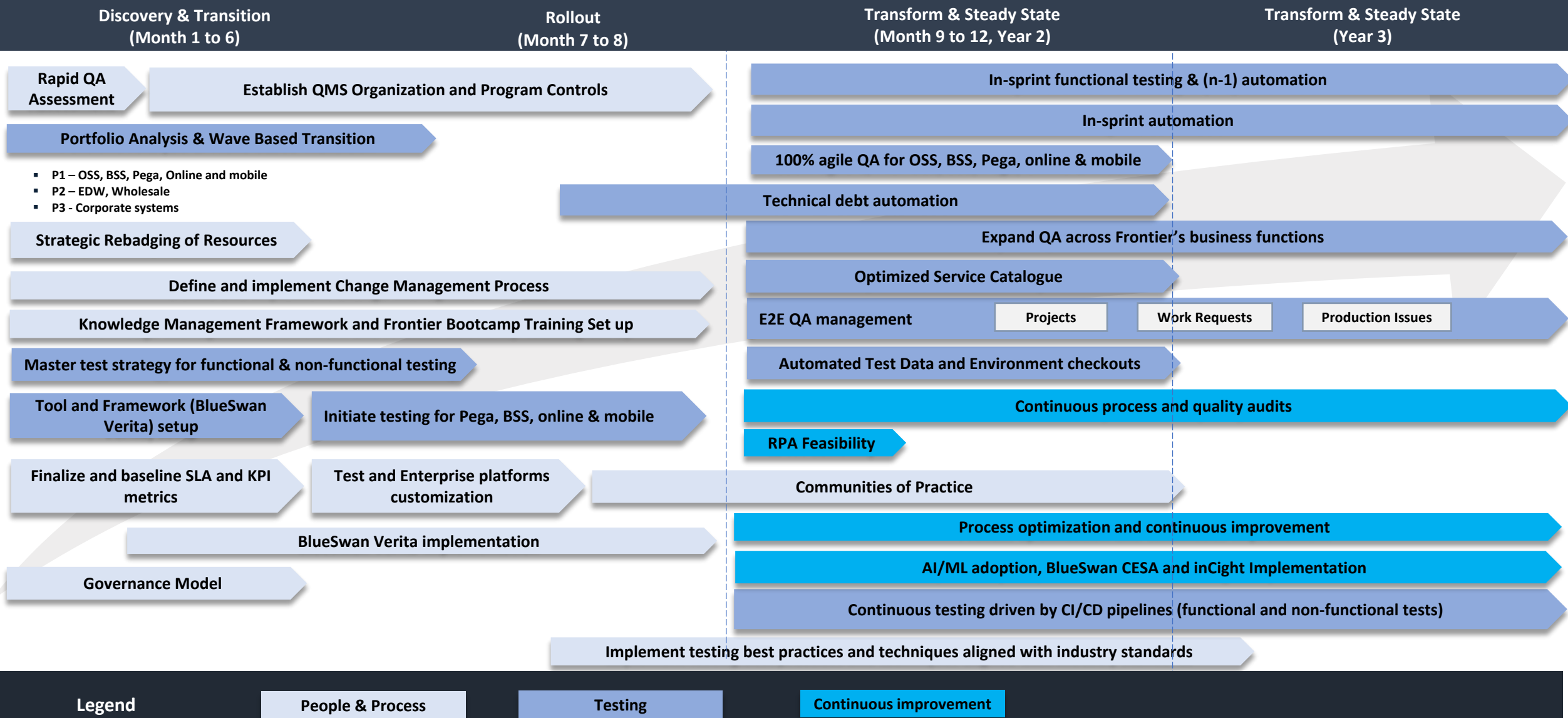
Tools	Resource Strength		Relevant Experience
	Total	Bench	
Scriptless automation tools – <b>AccelQ</b> , TOSCA, Parasoft, etc. (150+ Engagements)	650+	52	
Cross browser testing tools – <b>Sauce Labs</b> , BrowserStack, AWS DeviceFarm, etc. (120+ Engagements)	250+	20	
Performance testing tools – <b>JMeter</b> , NeoLoad, LoadRunner, etc. (85+ Engagements)	95+	10	
Project Management tools – <b>Jira</b> , ALM, TFS, etc. (250+ Engagements)	500+	40	
Continuous Integration tools – <b>Jenkins</b> , CircleCI, TFS, etc. (150+ Engagements)	450+	36	
API Automation tools – <b>Postman</b> , SoapUI, Parasoft, etc. (250+ Engagements)	450+	36	
Analytics & Visualization tools – <b>Spotfire</b> , Qlik, Tableau, etc. (50+ Engagements)	300+	24	

**Proposed Solution**

# Solution Summary



# Managed Testing Services Implementation Plan for Frontier





# Transition Overview

## Key Objectives

- Minimal Disruption to the BAU
- Optimized team composition
- QA alignment with Frontier's business goals
- Comprehensive portfolio analysis
- QA Expansion

### Pre-Transition

### Knowledge Acquisition & Employee Rebadging (Month 1 to 5)

### Independent Program Execution Month 6

#### Knowledge Transfer

#### Shadow Support

- » Publish and present discovery plan to Frontier
- » Publish a plan to maintain BAU operations
- » Develop program transition blueprint
- » Publish communication and governance model for the program
- » Publish comprehensive KT and workshop schedule
- » Initiate offshore connectivity and access
- » Run Frontier 101 certification program
- » Review rebadging requirements
- » Identify change impacts and risk

- » Prioritize applications for wave-based transition
- » Onboard team based on the transition plan
- » Initiate knowledge acquisition of applicaitons
- » Understand SDLC and STLC processes including tools, release schedules etc.
- » Leverage reverse engineering tools to address risks from insufficient documentation
- » Build knowledge maps
- » Publish knowledge acquisition scorecards
- » Define industry standard processes and methodologies, as required
- » Define and roll out change management process

- » Pair with identified resources on current testing activities
- » Setup tools, and frameworks as required
- » Participate in end-to-end QA operations for BAU including BSS, OSS and Pega
- » Identify dependencies and prepare a resolution plan for future test activities
- » Publish reverse shadow plan
- » Publish transition progress metrics

- » Own end-to-end QA activities in collaboration with rebadged resources
- » Initiate automation for Wave 1 and 2 applications
- » Seek feedback through reviews and implement course correction as necessary
- » Identify resource requirements and publish onboarding and training plan for steady state
- » Provide transition status and go-forward plan to Frontier leadership
- » Transition signoff

#### Transition Governance



#### Employee Rebadging

Resource Dependency  
Knowledge and Skills  
Compensation details

Architects  
SMEs



Rebadged resources support E2E QA services

★ Progress Checkpoint



## Key Outcomes

- Managed Services Operating Model
- SLAs and Metrics
- Test Accelerators and Frameworks
- Enterprise Automation Roadmap

# Resource Rebadging Process



QA Head  
and HR Manager

## Collaborative Model



Principal Manager and  
HR Business Partner

- Employee rebadging will be performed as part of the transition phase
- Identify the need for rebadging of existing FTEs, contractors to ensure zero impact on the BAU operations
- Discuss and finalize resources for rebadging

### Key Drivers

- Experience
- Product knowledge
- Domain knowledge
- Contractual Obligations

### Critical Resources

- Technical Architects
- SMEs
- Leads

### Gather contractor details to initiate Rebadging process

- Need for critical resources and their key areas of expertise
- Number of key resources (identified by Frontier and Cigniti) to be rebadged
- Understand the cultural and knowledge gaps
- Gather payroll and compensation details
- Understand legal and HR compliances
- Publish rebadging plan

### Assess and Identify contractors for rebadging

- Assess identified resources based on their below skills and fitment to the project:
  - Technical and Domain Skills
  - Project dependencies
- Understand resources' career goals and objectives
- Explain the change and impact of the changes
- Walkthrough Cigniti's employee benefits program and expectations
- Publish milestones and assessment plan to measure the success of rebadging

### Resource on-boarding and team stabilization

- Release offer of employment
- Publish team structure with defined roles and responsibilities
- Initiate Cigniti resource on-boarding induction program
- Provide project access (knowledge portal, tools, test suite etc.) to the rebadged employees
- Knowledge sharing sessions between Cigniti QA team and rebadged contractors
- Support E2E ongoing managed QA

# Cigniti Staffing Plan for Frontier


Business Functions	Team Onboarding during Transition					YoY Team Structure		
	M1	M2	M3	M4	M5	Year 1	Year 2	Year 3
Pega	10	9	5	4		28	21	18
OSS	7	7	4	2		20	17	15
BSS	6	8	4	2		20	16	15
Online & Mobile	0	3	1	0	2	6	8	8
EDW	0	2	2	0	2	6	7	7
Corporate Systems	0	0	3	3		6	6	6
Wholesale & Others	0	0	3	2		5	6	5
Automation (Centralized Team)	4	1	4			9	9	11
<b>Total</b>	<b>27</b>	<b>30</b>	<b>26</b>	<b>13</b>	<b>4</b>	<b>100</b>	<b>90</b>	<b>85</b>

**Team Structure**

Year 1	Role	Count	Category	Total
Year 1	QA Manager	5	Automation	29
	Domain SME	3	Performance	9
	Manual Testing	45	Security	9

Year 2	Role	Count	Category	Total
Year 2	QA Manager	5	Automation	36
	Domain SME	3	Performance	9
	Manual Testing	28	Security	9

Year 3	Role	Count	Category	Total
Year 3	QA Manager	5	Automation	43
	Domain SME	3	Performance	9
	Manual Testing	16	Security	9



# **BlueSwan™ for Frontier QA Transformation**



## Cigniti's Next Gen Proprietary Platform to Accelerate Frontier's Quality Transformation

**Verita**

*Quality Engineering Platform and Dashboard with Predict Capabilities*

**Praxia**

*Process Accelerator Platform for QE, Agile, DevOps Transformation*

**Velocita**

*Enterprise test accelerator hub for digital transformation*

**InCight**

*Holistic customer Experience Assurance Platform*

**iNSta**

*AI-based intelligent test automation platform*

**Cesta**

*Test asset migration platform*

**Implementation Plan**

**Configure**

**Customize**

**Stabilize**

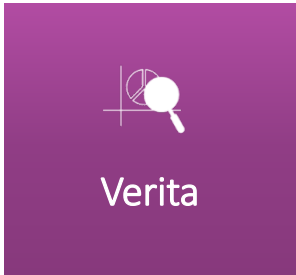
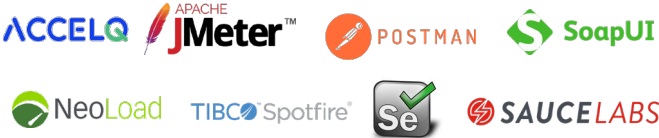


**Expand**

**Continuous Improvement**


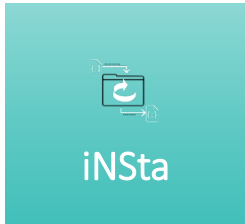










# Integration with Frontier's Landscape

Frontier Technologies	BlueSwan™ Integration					
	Verita	iNSta	Velocita	InCight	Cesta	Praxia
OSS systems – <b>Ericsson, Blue Planet</b> AMDCOS, Netcracker, etc.	✓		✓	✓		✓
BSS systems – <b>Sterling, Salesforce,</b> Sigma, Ericsson, AMDOCS, etc.	✓	✓	✓	✓	✓	✓
Digital Experience – <b>Sitecore, Adobe,</b> Online, Mobile, etc.	✓	✓	✓	✓	✓	✓
Customer Management – <b>Pega, Avaya, Genesys, etc.</b>	✓	✓	✓	✓	✓	✓
Middleware and APIs – <b>TIBCO,</b> <b>Apigee, MuleSoft, etc.</b>	✓	✓	✓		✓	✓
ERP systems – <b>Infor, SAP, Oracle,</b> Dynamics 365, etc.	✓	✓	✓	✓	✓	✓
EDW – <b>Oracle, Teradata,</b> MongoDB, etc.				✓		✓
ETL, BI & Reporting - <b>Informatica,</b> Tableau, MS BI, SAP BO, etc.	✓		✓			✓

# Integration with Frontier's Landscape

Key Objective	BlueSwan™ Solution	QA Integration	Key Benefits
Increase speed and accuracy of testing		<ul style="list-style-type: none"> <li>▪ Custom implementation as per Frontier's technology towers</li> <li>▪ Intuitive dashboards for Test Governance Office</li> <li>▪ Metrics for functional and non-functional tests</li> <li>▪ Integration of quality gates across SDLC</li> <li>▪ Automated alerts for quality benchmark deviations</li> </ul> 	AI powered <b>defect prediction</b> and <b>false-positives identification</b>
DevOps QA			<b>CI/CD integration</b> and real-time tracking of build quality and approval-based deployments
Improved visibility across QA progress			<b>Centralized and comprehensive</b> view of cost, quality and speed
Optimum Test Coverage			<b>100% functional test coverage</b> through bidirectional traceability
Reduce production defect leakage			<b>&lt;2%</b> of defect leakage into production
Customer Centricity		<ul style="list-style-type: none"> <li>▪ Continuous monitoring of customer feedback and satisfaction for Frontier's digital applications</li> <li>▪ Orchestrate feedback loop from production to lower environments</li> </ul> 	<b>Superior customer experience</b> for digital applications (web and mobile)
Test Accuracy and Optimum Test Coverage			<b>Customer-centric</b> test strategies to strengthen the regression suite

# Integration with Frontier's Landscape


Key Objective	BlueSwan™ Solution	QA Integration	Key Benefits
Increase speed of testing	  	<ul style="list-style-type: none"> <li>▪ Framework integration across all technology towers</li> <li>▪ Unified framework for online and web applications</li> <li>▪ Embed shift-left testing across SDLC models</li> <li>▪ Script conversion to open source tools</li> <li>▪ Automated impact analysis for business as usual applications</li> <li>▪ Orchestrate software bots for business critical operations</li> <li>▪ Adoption of AI and self-healing for automation</li> </ul>        	<p><b>30 – 40% faster</b> test cycles through adoption of AI and enterprise automation</p>
DevOps QA			<p><b>100% DevOps QA</b> for Priority 1 applications – OSS, BSS, Pega, Online and Mobile</p>
Align with current QA trends and standards			<p><b>Intelligent and Automation First</b> approaches to drive QA organization</p>
Expand test automation coverage			<p><b>&gt;85% automation</b> coverage for Priority 1 applications – OSS, BSS, Pega, Online and Mobile</p>
Expand QA to support multiple releases			<p><b>Unified automation</b> frameworks for web, mobile (iOS and Android), APIs and DB validations</p>
Operational Excellence across the QA organization		<ul style="list-style-type: none"> <li>▪ Custom QA assessments on a periodic basis</li> <li>▪ Agile/DevOps readiness frameworks for thorough due-diligence of people, process and tools</li> </ul>	<p><b>2x faster</b> quality transformation through 2000+ process assets</p>
Matured QA (Tools, people and processes)			<p><b>≥ 4 TMMi</b> maturity rating for the QA organization</p>



# Cigniti Tool Partnership Benefits to Frontier

Cigniti leverages its strategic tool partners to perform tool feasibility and identify best fit tools for Frontier's Technology Enhancements.

Frontier Current tools stack

	Test Automation		API Testing		Cross-browser testing
			Performance Testing		Testing Metrics
					

## ★ Tool Partnership Advantages

1

Cost-effective licensing models

2

Early access to beta releases

3

No-cost tool Proof of Concept as a value add

4








Custom trainings & certifications for QA team

5

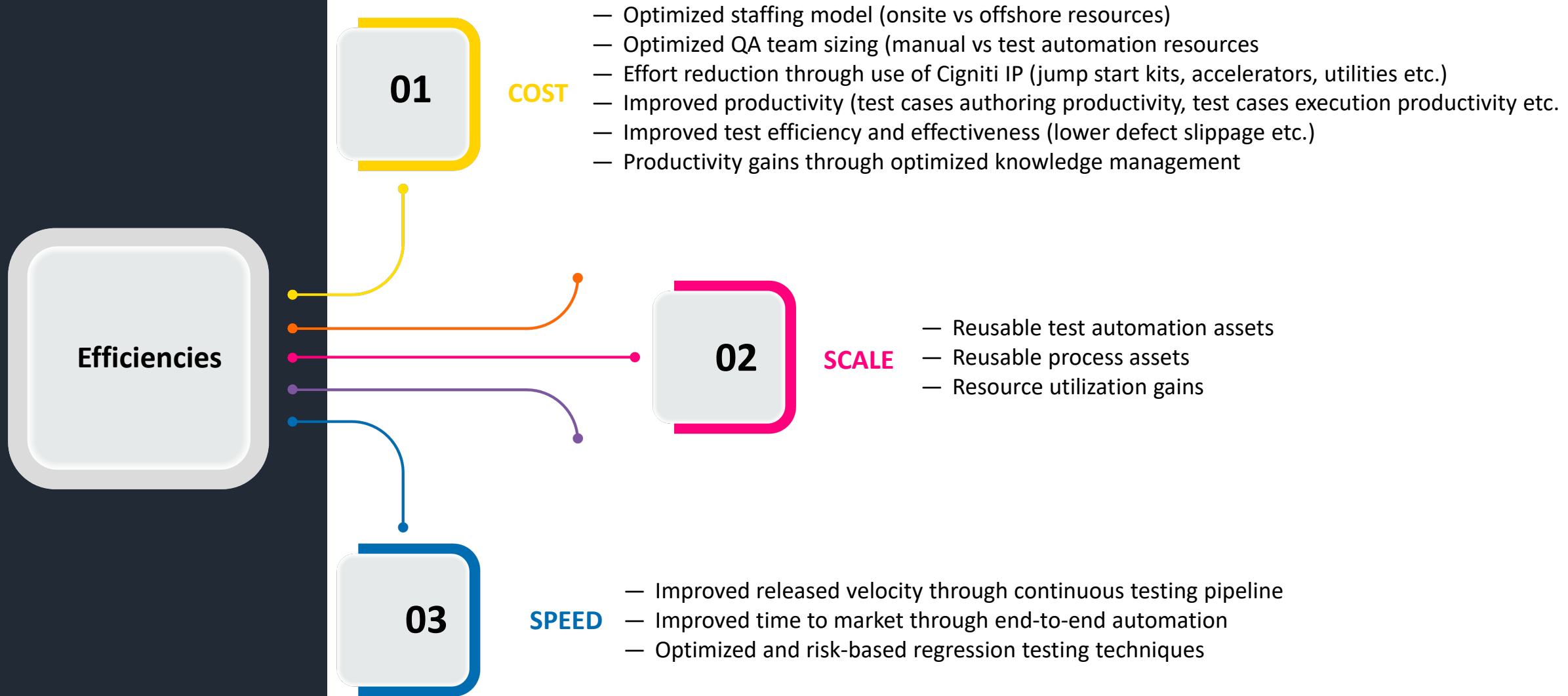
Access to Cigniti's certified resources for all leading tools



Tools for Frontier's Technology Enhancements

	Test Automation		Robotic Process Automation		Digital experience testing
					
	Test data automation		Application Security testing		ETL & Data Migration Automated testing

# TCO Reduction and Efficiency Gains through Cigniti's MTS Solution



**Thank You**

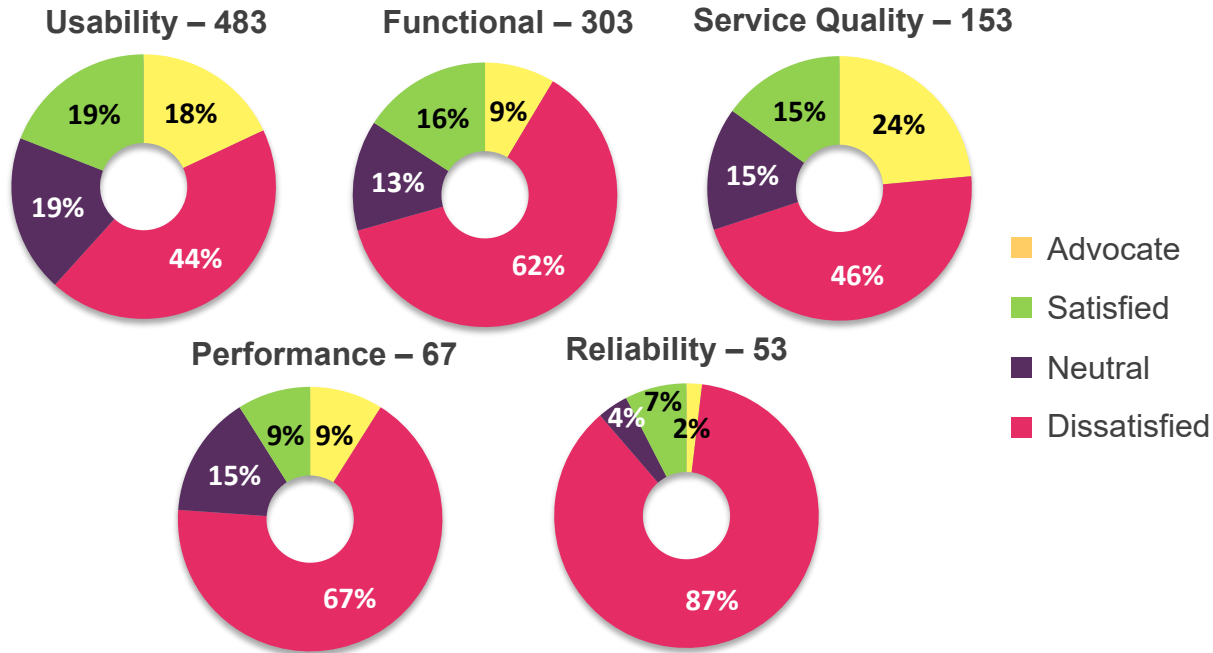
# Appendix

# **Customer Sentiment Analysis – MyFrontier Mobile App**



# Key Takeaways

## Sentiment Distribution by Categories



## User Experience



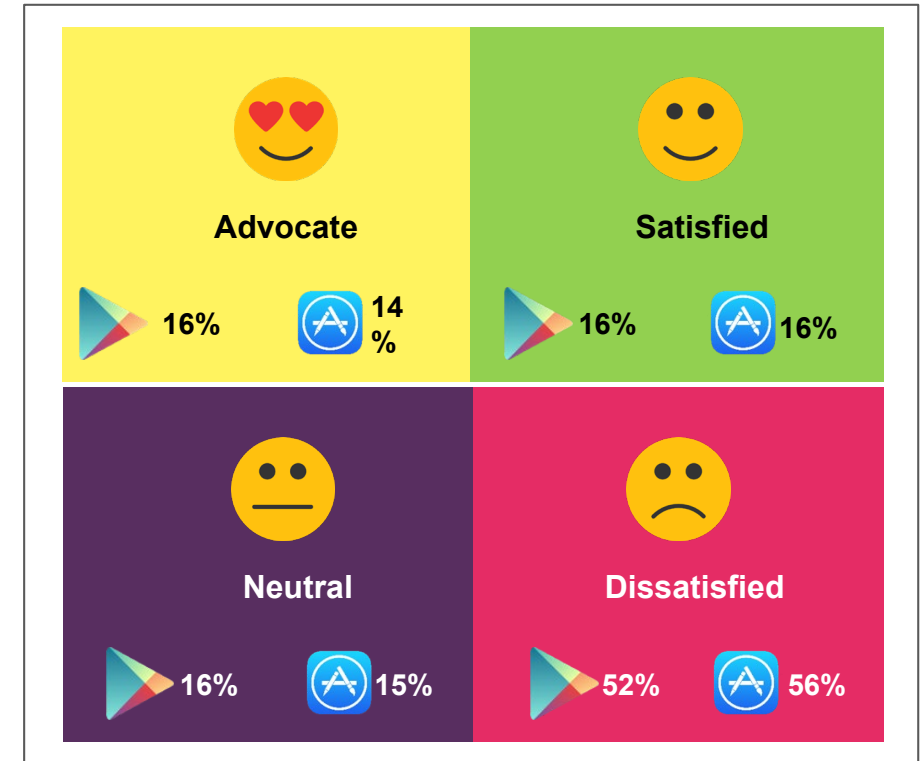
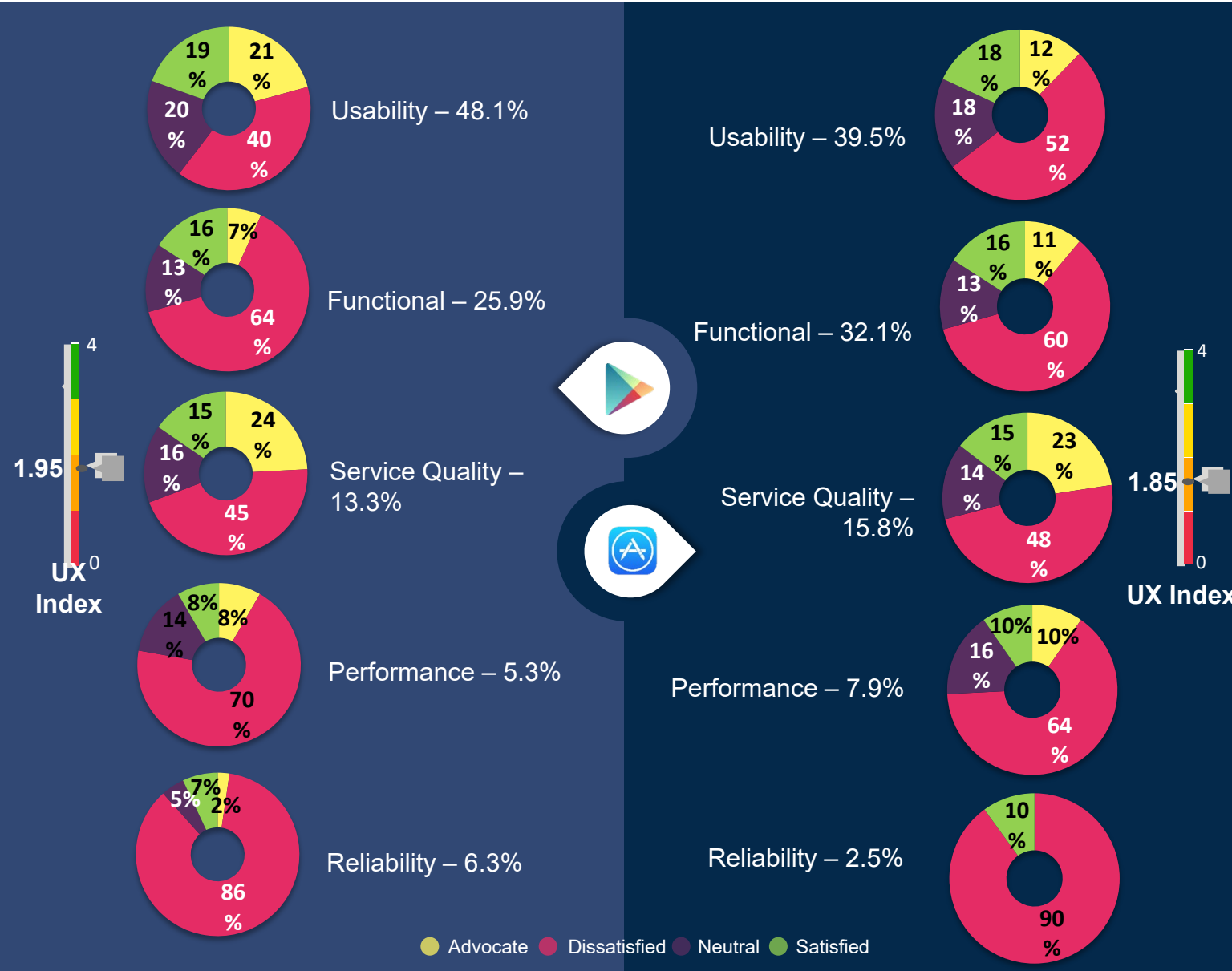
Continue to monitor

1. Usability
2. Service Quality

Continue to Focus on

1. Functionality
2. Performance
3. Reliability

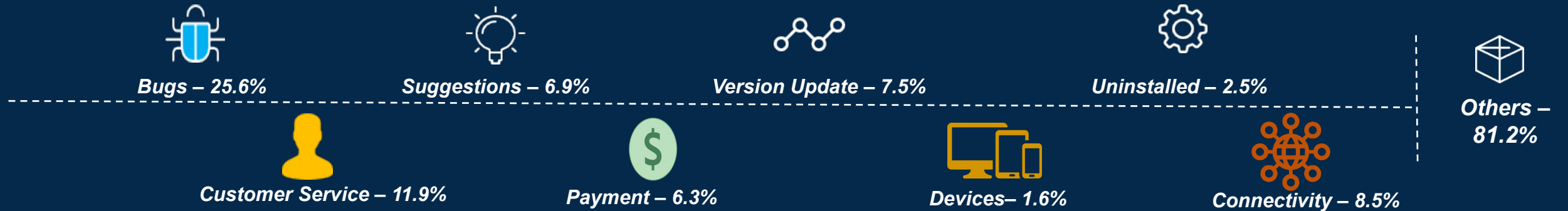
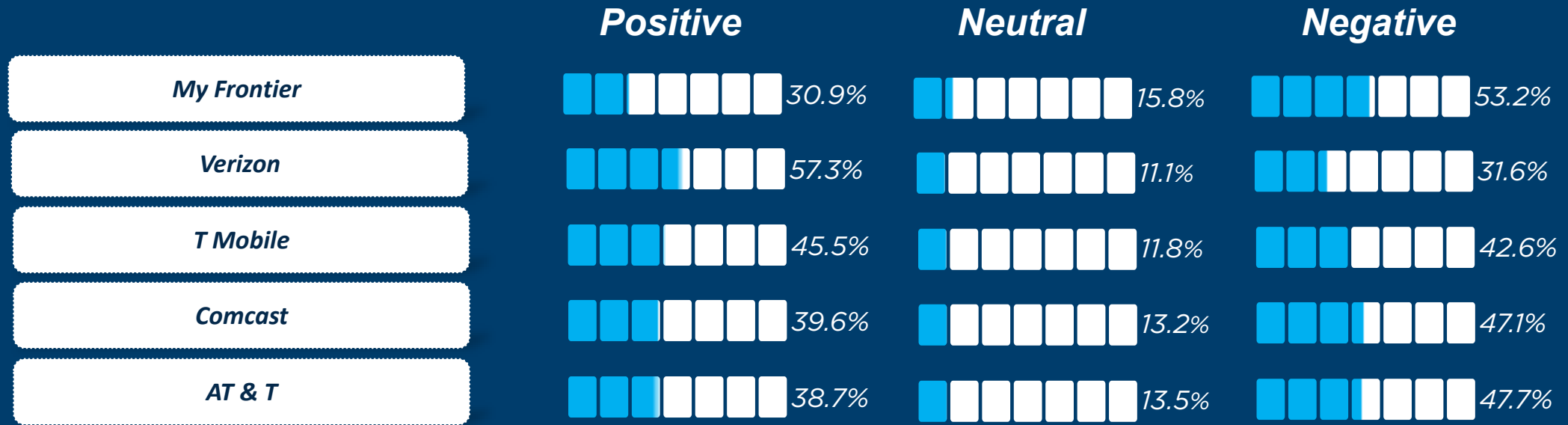
# Store Comparison



Play store users have better user experience when compared with Apple store users



# Conversation Distribution



- Majority of the Negative emotions are focused on “Service, Payment, Login”

# SAMPLE Bugs & Suggestions

Bugs	Review Date	Topic
Cannot get through sign in despite changing the password.	20/01/2021	Functional
Can't access my network on the app.	19/01/2021	Functional
Service stops every couple days and frontier does nothing to fix it	11/01/2021	Functional
I needed to update my autopay info & could not do so using the app.	23/12/2020	Functional
There was a speed test that was unable to determine the router speed as the app could not access my router.	23/12/2020	Usability
Crashes when I click on a recent phone number to block it.	03/11/2020	Performance
I cannot stream videos, I cannot download anything it always fails	16/12/2020	Functional

Suggestions	Date	Topic
Would be nice if you could report an issue through the app, or communicate with the company	12/11/2020	Functional
Why add features that look good on paper but do nothing but slow the app down and make it buggy	23/06/2020	Functional
Also, Why is there no option to enter a payment amount?	23/06/2020	Functional
Dont think it's fair for a loyal customer to be paying \$3 dollars every time to make a payment	22/05/2020	Functional

**Commercials**

# Pricing Summary



## TIME AND MATERIALS

YEAR 1



\$6,268,059

Onsite   
30 : 70  
Offshore 

## FIXED PRICING

YEAR 1

\$6,515,352

Onsite   
30 : 70  
Offshore 

Dedicated account  
governance &  
tough leadership

Private bench of  
10 multi-skilled  
resources

Digital  
Transformation  
Office

Cigniti IP  
Platform - Test  
and Process  
Accelerators




INVESTMENTS

\$5,012,750

YEAR 1

\$5,767,044

Onsite   
25 : 65  
Offshore 

YEAR 1

\$5,237,364

Onsite   
21 : 64  
Offshore 