PwC India Business Risk Consulting

Service Offering Deck

June 2023



Business Risk Consulting Services - Overview

Who are we?

- **Business Risk Consulting** • Services is a team led by 6 Partners, supported by 20+ Directors & 540+ professionals with background in technical, strategy, accounting and business processes with wide variety of industry and practice experiences.
- Within BRC, we have a pool of team members specializing in various technologies and expertise.

Our Pool of Resources

Business Risk Consulting team

- Large pool of resources available to support engagements across different delivery verticals
- · Continuous upskilling and technical skill upgrades to have our team equipped and ready to be deployed





Technical Consultants



45+ SAP Certified Professionals



Functional

190 +IT Security Consultants

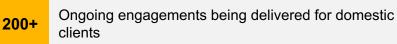
Together, this combination of people will provide you with the right expertise in the right places at the right time

What we have been working on



80+

Global engagements driven by our team for PwC India, PwC US, PwC UK and PwC UAE network firms





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150+

Functional

Consultants

Team members with certifications in CISA. SAP GRC. Six Sigma, ISO 27011, ISO 22301, ISO 31000, ISO 9001

50+ **Global Engagements**

Industry Sector Focus

- FMCG
- Oil & Gas
- BFSI
- Technology Services
- Pharmaceutical
- E-Commerce
- Manufacturing
- Automobile
- Power & Utilities

Automation Solutions

- Web Based Tool for Access management & Continuous Monitoring
- **Dashboards for Management** Reporting
- Ready to deploy automation solutions for Application Security & **Business Controls Monitoring**
- **BOT Solutions for Controls** Monitoring

Business Risk Consulting – Service Offerings



Services View - Risk Transformation

Our Capabilities		GTM Propositio	n in Risk Trans	formation			Focus Network Mar	rkets	
Team of SMEs	Target Clients	Core Risk Trans	formation Serv	vice Offerings			Our relationships with the networks is		
 Industry Functional and Domain Risk and Large Multi- nationals Diversified Conglomerate 		Dipstick Reviews	Target Operating Model	Risk Function Transformation Programs	Managed Serv	rice COEs	 strategic focusing on delivering great outcomes with highest standards. Base on the client and network relationships, Co-sell and Co-deliver – we share the standard standard		
Compliance	 Private Equity 			Target Operating I	lodel			and lead the delivery	
 Business Process Management 	Investees Family Businesses 	Strategy alignment Board Oversight		Roles and Accountabi		mework and policies egration (IRM)	 Support sell and support deliver – we support the network firm to lead 		
Enablers	Accelerators		Risk Appetite				We have strong long-standing relationships with the below networks, including the		
Frameworks	Marketing		Risk Culture others					, G	
Operating Model Processes	Leading Platforms		Risk Management Lifecycle			Targeted Regions:			
KRIs and KPIs	PwC Products	Risk Identification & Assessment	F	Risk Response		k KPIs, KRIs Monitoring & porting	US Europe UK Middle		
Reporting	PwC IPs			Enablers					
Sectors / Industries	5	Risk Tools & Technol	odies	Risk Data, Modelling & Analytics	Res CO	sourcing, Capabilities and Es	Key Levers		
Financial ServicesGlobal Captives	E-CommerceRetail	Key Drivers					Structural & operating model – what's the most	Tools & technology – investments made?	
 FMCG Oil & Gas, Power & Utilities IT & ITeS Steel Steel Pharmaceutical Manufacturing Media 	Post Pandemic changes – increased digital ambition			Increased virtual and remote working models		effective and efficient operating model?	What will drive efficiency, visibility, defensibility and intelligence?		
	0	Emerging risks needs pragmatic approach and specific skills		h and Incre	Increased regulatory compliances and scrutiny		Risk function services – what all can be	People, culture &	
	Services	Expectation of shifting operations	assurance owners	hip to Incre	ased cost of risk and	compliance function	transformed? What's fit for purpose?	behavior – across all line of defense	

Services View - Data Privacy & Protection

#We have worked with clients across industries on Privacy framework design and implementation from Strategy through Execution helping them comply with regulations such as GDPR, Data Protection Bill, India

Key service offerings

Data Discovery and classification

Data Privacy Assessments

Design and implementation of privacy framework

Privacy enhancing technologies

Managed Privacy services

Global & Local Clientele

Experience working on Data Privacy with Fortune 500 Companies and large Indian corporates with global foot prints

10	
	ACTEN

Covering over 70+ Privacy Laws across the globe

Our Expertise



years experience in privacy & security Successfully Delivered 50+ Data Privacy



engagements 40+ Privacy certified professionals with

50+ Qualified professionals with average of 5+

certifications such as ISO 27701, CIPP/E, CIPM, OneTrust

Industries



Financial Services Aviation

> U \mathbf{r}

• Mobile Advertisement







IT Services

Manufacturing

Tested Tools & Methodologies

- Ready to use Policy, Procedures, Process Workflows, Templates & FAQ's
- Automated Toolkits to enable guick Privacy reviews & **Data Protection Impact Assessments**
- · We support in bringing processes in line with these new obligations, from the diagnosis phase to the accompaniment. Our data protection team includes lawyers, consultants, auditors, risk specialists, forensic experts and strategists.

1. Privacy Planning (GDPR, PDP etc.)

2. Personal Data Inventory and Data Mapping

3. Privacy Framework Development



5. Ongoing Monitoring

Supply Chain & Third-Party Risk Management

End-to-end Third- Party lifecycle management

We provide innovative Supply Chain & Third party risk solutions that is value driven and tailored to meet Client's requirements by bringing in the proactive risk identification of risk associated with Third parties and and helping client in implementing an effective risk mitigation strategies

as,

Our Core Offerings

Comprehensive Supply chain risk solution in identification, assessment and risk remediation in • Plan • Source • Make • Deliver • Return						
Major client challenges addre						

Challenges	Complexity
Increasing regulatory scrutiny and compliances	High
Lack of insights on third-party landscape -	Med
An unstructured third-party monitoring process	High
Lack of experts to manage and monitor varied risk postures for third parties on consistent basis	High

Design and implement End-toend SRM/TPRM model-

- **Governance Model**
- Design Central Governance,
- Oversight and Guidance

Identification, Financial risks, Operational risks, Management Risks On-boarding, ,AML /Compliance Emerging engagement,

Ongoing oversight & change mgmt

•

•

• UBS

•

and exit management

Federal Bank

IDFC Bank

BNY Mellon

Barclavs

Managed Services-Third Party

Risk Management Lifecycle

processes and activities:

essed by our Managed Services

	Complexity
tory scrutiny and compliances	High
on third-party landscape -	Med
third-party monitoring process	High
o manage and monitor varied	High

Sample clients:

- Microsoft
- IKEA

Integrated risk framework

Risk areas such

covering various risk areas such

ESG, Cyber/Information

Security, Modern Slavery

- Vedanta.
- ICICI Bank
- Standard Chartered Bank

Why PwC India?

- One Stop Provider for end-to-end TPRM needs, supporting clients in their day-to-day business
- Extensive and specialized knowledge across supply chain and third parties across industry domains

Key Differentiators

- Experience of handling numerous **SRM/TPRM** projects in Industry space helping clients in designing, implementation and running comprehensive Third party risk management prog. Including vendor governance prog.
- Our 'Depth of Regulatory Knowledge' to give you a balanced operating model aligned with regulatory expectations
- Integrated team of experts having global expertise in key domain areas such Operational, Human rights and Legal and Regulatory, Cyber Security, Reputation, ESG etc
- Our 'Proprietary product such PwC Prudence, ٠ **PwC-TP Risk Protect** and other tools help you digitalize and automate TPRM Lifecycle



Services View - Governance, Risk & Compliance

Our Capabilities GTM Proposition in Risk Transformation							Focus Ne	etwork Markets			
Teams Functional	Alliances Alliances and	Core Risk Trans	Core Risk Transformation Service Offerings						Our relationships with the networks is strategic focusing on delivering great		
Consultants Technical Developers System Architects PMO, Quality & Risk	Relationships with the leading GRC Product Vendors Accelerators	Dipstick Reviews, Strategy and Roadmap	Vendor Selection		Tech	End GRC nnology mentation	GRC Managed Offering	outcomes with highest standards. Based on the client and network relationships, we:• Co-sell and Co-deliver – we share the part of the scope and lead the delivery• Support sell and support deliver – we support the network firm to leadWe have strong long-standing relationships with the below networks, including the othersTargeted Regions:USEuropeSEAC UKWiddle EastCanada		ards. Based ationships, we: we share the the delivery t deliver – we	
Infrastructure Support	Frameworks, Scripts, Operating Model, Project Plan			SELECT GRC Use Ca	ses					g relationships	
Automation Robotics, AI / ML, Modelling, Data Mining, and CCMs Analytics, PwC IP	based accelerators	Integrated Risk Ma	anagement	Continuous Controls Monitoring & REPORTI		Audit, Po	olicy & Compliance			SEAC Canada	
 Sectors / Industries Financial Services Global Captives Retail 		Third Party Risk		Data Privacy ROPA		Business Continuity Incident Management		New Zeala	New Zealand	Australia	
 FMCG Oil & Gas, Power & Utilities IT & ITeS 	 Steel Pharmaceutical Manufacturing Media Professional 	Operational Risk M	anagement	Cyber & Technology (IT ITAM, SecOps. DevOp			ne and Compliance, , ALM, EFPA, BSP, LRM				
	Services		Others (Navex, Galvanise, PwC IP)								

Services View – ERP Governance, Risk & Compliance

Our GRC team helps in Proactively managing technology risks, business process & compliance risks and maintaining the business continuity and operational resilience. Within BRC, we have a pool of **80+ subject matter experts** in GRC Team who specialize in SAP, Oracle & Security who have delivered wide range of **GRC Projects for Fortune 100+ Companies**.

Wide Variety of Project Experience	Benefits for your clients	Network Firms:
 60+ large scale SAP GRC & Security Engagements 15+ Oracle Risk Engagements & MS Dynamics Engagements 40+ Global engagements driven by our PwC India team remotely 40+ Team members with certifications: CISA, SAP GRC, SAP Functional Certifications 	 Increased Expertise Improved Business Focus Improved Compliance Skilled pool of resources Agility & Faster Response Time 	 PwC Switzerland: SAP GRC, Role-Redesign, SoD Clean-up PwC UK & UAE: SAP GRC, SoD Clean-up, Rulebook Review, Mitigation Control, SAP Functional & UI Masking PwC US: SoD Clean-up, Mitigation Control, SAP Functional
Our Core Service Offerings in GRC Space		PwC Germany, Vietnam, KSA and others
GRC and ERP Security (SAP, Oracle & MS Dynamics)•• Managed services - Application Security & GRC•• ERP Security - User access matrix definition, role re-design/ clean-up•• ERP GRC - GRC Implementation, pre and post implementation support•• iRPA - BOT implementation for continuous monitoring along with SAP GRC AC/ PC	 Figure 1 Figure 1 Figre 1 Figure 1 Figure 1 Figure 1 Figure 1 Figure 1 	
Data Governance & UI Masking		 People Experienced resources with diverse skill sets and On-demand resource augmentation
UI Masking Implementation Data governance design and monitoring Data	ta Privacy and Security	 Tools & Technology In-house developed tools to support engagements and Hands-on experience on emerging technologies
Marquee Clients with Network Firms:		Off-Shore Delivery Flexible off-shore, onsite and hybrid model as per requirements
 ABB Fujitsu Compass Group National Grid PepsiCo Inc. Stericycle Lifeblood First Abu Dhabi Bar Saudi Electric Company 		Knowledge Base Good repository of accelerators built over the years for fast tracking engagement execution
Industry Sector • Power & Utilities • BF	Sl • Manufacturing • Automobile • Technol	ogy Services • Oil & Gas
PwC India Business Risk Consulting		June 2023

Services view - ERP/Application Security & Controls

Enabling clients to design, implement and operate a robust, preventive controls and security environment across their ERP landscape

Configurable and Interface Controls

Design and Test

° — • —

Business Process

ERPs are an integral part of

requiring focus on controls and

transformation exercises

Risk Transformation

Controls automation

design focusing on

configurable and

interface controls

Transformation

compliance

Continuous monitoring through Centre of Excellence (COE)

ERP Consolidation and

Embedding controls as part of

applications and greenfield

ERP upgrades, consolidation of

Managed Services

SOD and controls

bandwidth, skillset,

technological aids

monitoring

challenges -

Implementation

implementations

02

04

• SAP and Oracle GRC Implementation – Process Controls

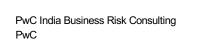


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03

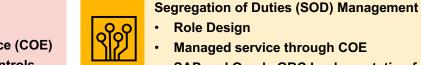
Benefits derived by clients

- Zero-day readiness for SOX and ICFR compliance
- Optimal reliance on ERP environments by external auditors
- Reduced :
- cost of compliance
- involvement of internal teams
- fraud scenarios
- Permanent reduction of SOD conflicts
- · Comprehensive and real time risk monitoring





SAP and Oracle GRC Implementation for Access Controls



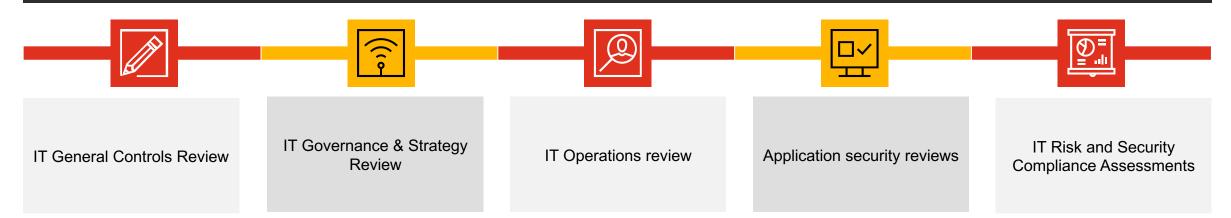
Services view - Business Continuity & Disaster Recovery

'360 DEC Approac	-			Key accounts						
multiple for only from organisa requirem	We look into multiple facets not only from internal organisational requirements but also external i.e. sectorial and country specific regulations.	We have moved away from traditional concepts of business continuity and have a strong emphasis	Bharti Airtel	HCL Technologies		Dubai - DTCM	State Bank of India	Malaysian Airport		
country s		business and is easy to maintain &	on Resilience.	Dabur India	Genpact		ITC Limited	Adani Group	Cairn India	
				BCM C	Offerings					
01		work Implementation nplementation of BCM Fran	nework		05		DR Maturity Assessments Int in-order to determine the BC	CM/IT-DR Maturity of the ta	arget organization	
02	02 BCM Gap Assessment Determining gaps in the existing BCM framework baselined with industry standards				06	Simulation	sis Simulation Exercises of crisis scenario and validatio overall readiness	on of the response and rec	over arrangements to	
03	03 BCM Risk Assessments Comprehensive continuity focused threat - risk assessments around People, Technology (IT/OT), Site etc.				07	07 BCM Training & Awareness Developing BCM related training and running BCM awareness campaigns			paigns	
04	04 BCP & Crisis Management Plans Setting up Enterprise Crisis Management Framework with plans such as Business Continuity Plan,				08		ts, Assessments & Reviews s, Assessments & Reviews in nts		rnal Audits, Regulatory	

Services view – IT Audits

Rich experience in	Prior experience in	Delivery Capabilities	State of art tools &	Member firms are
executing offshore	conducting similar		technologies to provide	utilizing our IT Audits
engagements	projects		cybersecurity services	capabilities
Conducted offshore IT assessments for clients in more than 30 countries	Conducted IT audits of various domestic & international organizations	200+ IT risk management professionals with various professional certifications such as CISA, CISSP, CEH, ISO 27001:2013 LI &LA etc.	Our 24*7 IT lab has high speed connectivity & secure infrastructure	Provided over 200k hours of support to PwC Network firms for external client service in last 5 years

Key Service Offering – IT Audits



Services view – Software & Hardware Asset Management

Key Service Offering – ITAM Managed Services

Proactive License Management	SAM Tool Management	SAM process design framework	Hardware Asset Management (HAM)	Key Clients Unilever Tata Group
Proactive software license management for assisting clients with identification of compliance risks and potential cost savings	Support clients with continuous support on industry renowned applications and offering in-house developed tool to manage the inventory	Process review of software lifecycle and maturity assessment based on ISO 19770 standards	IT hardware asset inventorization and review of HAM governance model including recommendations for enhancements	 Saudi Telecom Airtel Infosys Fareportal Saudi National Bank Oxford University Land'o Lakes
				Member Firms Alliance Delivered multiple engagements in 11 different countries. In active discussions with more than 10 countries.
LMCC Team Capabilitie	es			
100+ Dedicated ITAM Professionals	~3000+ ITAM engagements delivered	In-house developed proprietary ITAM Tool	SMEs for 200+ software publishers	SAM Policy Review and Implementation

Services view – CSV

				Service Offerings			
Why?	Wha	t?	How?	Computer System Validation / Computer Systems Assurance	CQV and Equipment Qualification	Data Integrity Audits / Assessments	
 All regulators such as US FDA, UK MHRA, and EU EMA have stringent quality management system requirements. 21 CFR Part 11 and 21 CFR Part 820.1/ 820.3/ 820.5 from FDA mandates controls around QMS. All companies are facing 	Computer System Validation (CSV) is focused on software, infrastructure and computing platform qualification for systems that support regulated activities and records for product quality		Sectors: Pharma Technology Chemical Consumer Products Increase footprint in Global corridors: APAC, MENA, Africa	 CSV assistance as per GAMP5/ / company applicable requirements, from Validation Planning to Report. Prospective/Retrospective /Concurrent/Revalidation Risk based right sized approach for validation with Electronic Records & Signatures; Assessments & Reports. CSV documentation package support from URS, FRS, CS, DS, GxP, Risk assessments, DQ, IQ, OQ, PQ & TM. Commissioning Qualification Verifica GMP facilities (Greenfield & brownfie Equipment Qualification as per Anne Decommissioning FAT, SAT Support Equipment Qualification as per Anne Decommissioning Technology Transfer Facility Design Reviews 		 Assessments for ALCOA Principles as per Dat Integrity guidelines System specific Process specific Enterprise wide 21 CFR Part 11 Annex 11 CSV Audits. Review of CSV Compliance status and remediation's 	
increasing cost of non- compliance.			EU Merging CSV as a	Risk Management	Business Process Im	provements; Automation	
100+	100+ 8+		solution along with PwC solutions offered to regulated sectors	 Risk Based Gap Analysis – Product Specific / Pro Enterprise Risk Management (Risk Registers) Development of Risk Management Framework. Integration of Risk into QA Programmes ICH Q9 Risk Management Services ISO 14971 – Device Risk Analysis 	GxP & IT Road m Robotic Process /	s Improvements, Reengineering. ap / Strategy. Automation (RPA)/ Robotic test Automation (RTA) Implementations. Technology enablement for paperless	
Man years of experience of Ph Biopharma / Lifesciences / Me Industry Expertise		coupled with	age team member experience h audit facing in US FDA, RA, EU, DCGI , WHO, NPCB,	Validation Risk Assessments Training	CSV Compliance Office / Managed Services	Supplier Audits / Assessments	
				 Customized Trainings based on the company need for GxP, CSV and IT 	 Managing clients IT, Quality and Compliance Services completely or Partially as Managed 	Develop Supplier audit framework	
	01 02			Compliance Workshop based trainings	Services Completely of Partiality as Managed Services Model. Staff Augmentation / Loan License	 IT Solution / Application providers, IT Infrastructure Platform Hosting organizations/ CMOs/ Suppliers Audits 	
	03	04		1-5 days of Training modules based on the company need			
				Quality Management System	Mock Audits	IT Infrastructure Compliance (In-house / Cloud)	
Belt Skil			001:2005 / Six Sigma - Green coupled with domestic and al exposure	 QMS Review / Develop and Upgrade Services for GxP, CSV and IT. Review; Develop SOPs and Templates and Work Instructions 	 In reference to product specific for a specific regulatory body or whole facility for ISO or WHO GMP or PIC/S certification Facility licensing Preparation 	 IT Compliance as per ISPE and ITIL framework IT Infrastructure Review / Audit IT Infrastructure Qualification on Cloud / In house 	

Services view – QMS

Key facts…			Why	How		
\$2-\$20 Mn4000+ warning lett issued to food companiesCost to address warning letters for LS companies4000+ warning lett issued to food companies\$500 Mn Cost of resolving QMS issuesLast 2 years 50 warning letters GxP processes food companies		 warning letters on QMS for LS companies due to CAPA + Average cost is n \$10,000 for executing or one CAPA 	 India ranked third worldwide for pharmaceutical production and out of these 500+ are US FDA approved plants - 2000 GMP plants - at least 20% of these are planning to go for QMS automation. Compliance with stringent quality standards and rigorous regulations passed by FDA and other global regulations like 21 CFR Part 11 and 21 CFR Part 820.1/ 820.3/ 820.5 Rising demand for effective management of organizational processes and the need for meeting consumer/ patient safety Reduce the corporate risk associated with 	 An digital QMS system reduces audit time and findings, and a decreases risk of product recalls. We have seen increasing use of automated systems to manage quality in life sciences companies. The illustrative processes that are automated include – CAPA, Event Handling, Audit, Change Control, 	PwC has alliance with Veeva and TrackWise in North America.	
O eQMS Implementation	eQMS Implementation End-to-End implementation of Quality Management Processes		 various quality non-compliances. Improves organizational effectiveness with overal increase in compliance and sustainable processes at higher quality with lower cost. 	 Deviation Management, 		
 Assist client with new import eQMS applications like Qualio, MetricStream, SA and Intellect using PwCs accelerators. Configure various QMS proceed (CAPA, Deviation, Charretc.) as per global regularies.) as per global regularies with SAP, by TMS etc. Implement customized reconfigured processes Design and impart training the application and make on the various processes workflows configured in the along with dos and don't the set of the set	ke TrackWise, AP ERP, etc s tools and processes nge Control atory standards. n integration LIMS, DMS and reports for the ngs to SMEs on e them aware s, functionality, the eQMS	As-is understanding workshop Quality process streamlining and harmonization Future state quality management processes finalization Establish a Quality Transformation PMO, governance structure, and roles and Vendor evaluation and selection for eQMS Alignment of eQMS software to be implemented Plan, develop and realize the eQMS software implementation	 Promotes accountability at steering committee/ executives level. Validation Services (Applicable for Pharma, life sciences and healthcare) Support Integrated service for implementation and validation in a single package by utilizing the experts from both the verticals. Design and implement CSV deliverables depending on implementation or upgrades End to End validation support from GxP analysis to validation reporting for eQMS application 	 Application Support Provide Application Maintenance Services (AMS) for eQMS application. Work on the tickets raised and help ensure resolution is provided as per the agreed SLAs. Provide the support in bug-fixing and process enhancements as a part of AMS. 	 Sectors Pharmaceuticals Industry Medical Device Consumer Product Biotech / Bio Pharma Nutraceutical Information Technology Oil & Gas Chemical Auto 	

Services view – Project Management as a Service

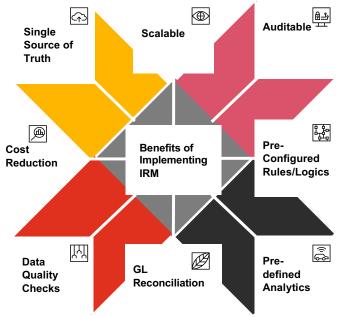
The PwC PMO model is customized based on client requirements and circumstances to ensure active alignment between our added-value services and client needs. The model offers flexibility so that phases sequence and deliverables may be adjusted to meet the client's priorities and requirements.



Services view – Integrated Risk Management

Our team provides range of services such as strategy and direction, vendor selection, process standardization, end to end implementation and managed offerings across multiple subject areas spanning across risk domain.

Implementation Services **Product Implementation Expertise** Solutions Oracle Financial Services Enterprise Risk solutions likes • End to End imple mentation of risk credit risk, operational risk, market Advanced Analytics (OFSAA) solution risk, ALM, LRM, FTP, PFT Pillar II, SAS Risk Management Configuration and Customisation Stress testing, economic capital. as per client requirements FCCM, ERM, EPM, EGL Governance Compliance • Development and Testing of Risk and Finance Data Mart Management solution Visualization and BI Tools Financial Crime and Compliance Automation of reporting framework IFRS 9, IFRS 17, Balance sheet • Production and DR Migration Planning **Managed Services** System Validation and Assessment **Solution Designing** • Review system design and • Level 1 and Level 2 support on Provide solution design and technological architecture various risk tech solution architecture Change Management for Provide end to end data flow • Review configuration and end to enhancements design process Daily Batch Execution and Vendor Evaluation Suggests GAP and provide solution to fill the GAP Maintenance Central PMO for risk technology • Upgrades and patch applications implementation Suggest enhancements to meet end objective Customised development Compliance and Data Deficiency Continuous performance Report improvement



Benefit from partnering with PwC

An integrated, end to end implementation service to manage your Integrated Risk and finance Technology lifecycle

Qualified Profession	Product Agnostic	Extensive Experience	Sector Agnostic	Product Expertise
	Technology Agnostic	/	Solution Agnostic	X
Accelerato Toolkit	ors	Tailored Approach		Commitment to co-creation

Addressing Pain Points in Project Management

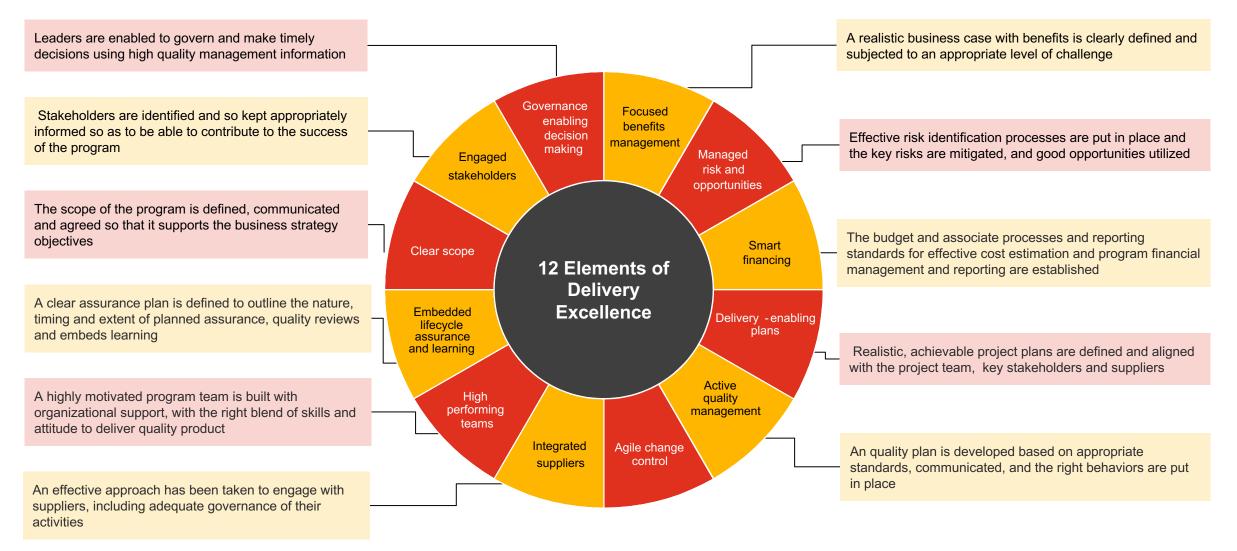
PwC Project managers address potential pain points pre-emptively

Visibility	 Provide visibility to senior management about project and benefits realization Identify gaps in realization of strategic objectives Clarify and align expectations of outcomes and project decisions Tie in with the enterprise processes, reporting, and coordination 	Evaluation	 Escalate current risks and identify potential risks proactively Mediate issue resolution Ensure proper communications to relevant stakeholders
Cost and Schedule Adherence	 Improve chances of successful completion; Improve schedule attainment, cost control, resource optimization and benefits achievement 	Accountability	 End to end accountability of deliverables Clear and defined RACI Clarify reporting structure for escalation
Planning and Governance	 Improve monitoring and control of projects. Better manage business processes and systems integration Increase efficiency in tracking progress of projects and programs Integrate project plans of all dependent projects 	Quality	 Adherence to the Quality Management Plan. Periodic audit of the processes being used to achieve quality standards Control quality at every stage

Standardized Templates

Services view – Project Management Model Delivery Excellence

PwC has developed a PMO model which assesses and delivers programs and projects using the 12 elements of delivery excellence



Our Global Presence – Working with Network Firms

Mentioned below is a high-level overview of engagements delivered by our team in collaboration with Network Firms. We have additional credentials in each of the areas and have references available, if needed. We are collaborating with Network Firms on large proposals in GRC & Security Space.

Network Firm	Risk Transformation	Data privacy	Supply Chain & TPRM	GRC Services	Business Continuity	IT Audits	IT Program Management	LMCC
PwC Switzerland		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
PwC UK	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
PwC US			\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
PwC UAE	\checkmark	\checkmark		\checkmark		\checkmark	\checkmark	
PwC Australia				\checkmark				\checkmark
PwC KSA	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
PwC Netherlands				\checkmark				
PwC Vietnam	\checkmark			\checkmark				
PwC Germany	\checkmark	\checkmark						\checkmark

Collaboration with PwC India

We will leverage Centre of Excellence Structure for you based on the requirements specific to the engagement:

Dedicated Skilled Resources

- Deployment of dedicated skilled resources having domain expertise
- Scaling up/Scaling down of resources based on project requirement

Specialized Skillsets

- Availability of Team members specialized in skillsets needed to deliver various engagements (Oracle, SAP, Integrated GRC Solution, Data protection, BCP DR etc.)
- Adaptation to emerging technologies (e.g. iRPA Integration with ERP applications)

Committed hours from SMEs

- Devoted hours of Subject Matter Experts having relevant experience in conducting engagements virtually
- Committed hours from senior leadership team



Tools and Technology

- We will leverage our PwC proprietary as well as customized tools for performing engagements.
- Multiple POCs in progress for design & development of automation solutions

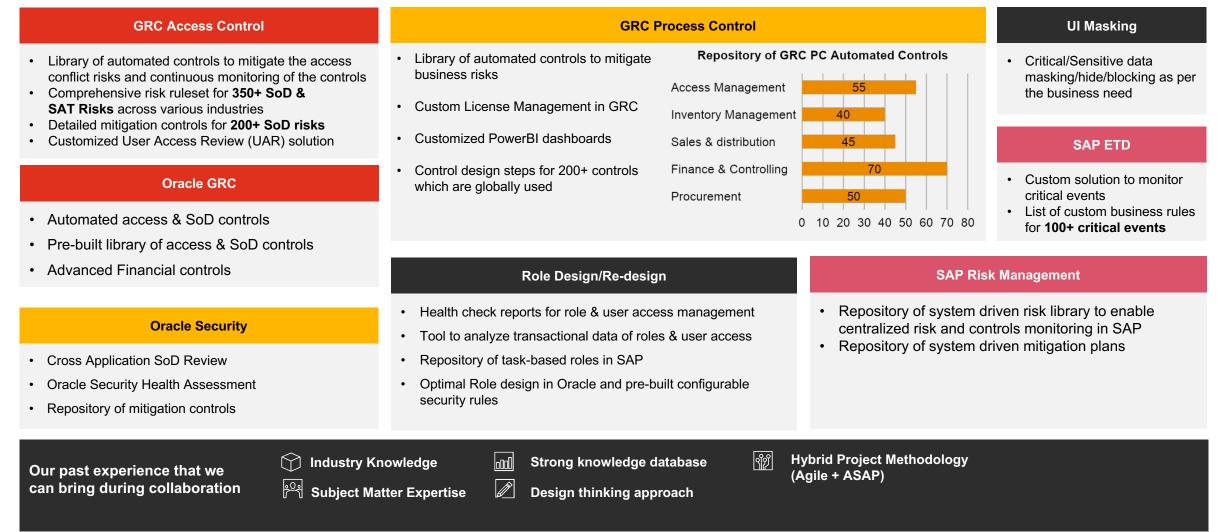
Fast Collaboration

- Depending on the project requirement, we can go for quick collaboration resulting in
 - Speedy resource augmentation
 - Accelerated onboarding to project

Service Level Agreement

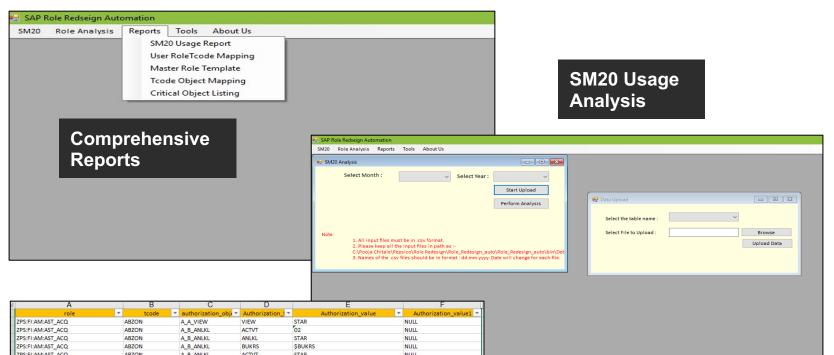
 We will define SLAs/KPIs to monitor and measure the performance of CoE

Accelerator for Governance Risk & Compliance Solutions & Application Controls



Accelerator: Access Management Automation (AMO) Tool

- SoD Free Task Based Roles : Tool will help the organization to create the riskfree task-based roles based on the organization's requirement,
- Tool will make the best use of all the existing data and will give the comprehensive reports at each stage
- Tool will have the comprehensive knowledge database for the task-based roles, critical authorization objects and risk library.
- The tool will provide the design for new roles based on the analysis performed on the existing data and industry best practices.
- New tool will be compatible with both ECC and HANA platforms. Necessary changes for HANA compatibility will be incorporated in the tool



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ZPS:FI:AM:AST_ACQ	ABZON	A_A_VIEW	VIEW	STAR	NULL
ZPS:FI:AM:AST_ACQ	ABZON	A_B_ANLKL	ACTVT	02	NULL
ZPS:FI:AM:AST_ACQ	ABZON	A_B_ANLKL	ANLKL	STAR	NULL
ZPS:FI:AM:AST_ACQ	ABZON	A_B_ANLKL	BUKRS	\$BUKRS	NULL
ZPS:FI:AM:AST_ACQ	ABZON	A_B_ANLKL	ACTVT	STAR	NULL
ZPS:FI:AM:AST_ACQ	ABZON	A_B_ANLKL	ACTVT	01	NULL
ZPS:FI:AM:AST_ACQ	ABZON	A_B_ANLKL	ACTVT	03	NULL
ZPS:FI:AM:AST_ACQ	ABZON	A_B_ANLKL	ACTVT	77	NULL
ZPS:FI:AM:AST_ACQ	ABZON	A_B_BWART	BWASL	STAR	NULL
ZPS:FI:AM:AST_ACQ	ABZON	A_B_BWART	ANLKL	STAR	NULL
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ZPS:FI:AM:AST_ACQ	F-90	A_B_BWART	BWASL	STAR	NULL
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ZPS:FI:AM:AST_ACQ	F-90	F BKPF GSB	ACTVT	77	NULL

Output in Excel

Citations



PwC India Business Risk Consulting PwC

IT Controls Testing Automation using Robotics

Context & Background

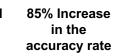
- · Client is one of the largest Oil and Gas exploration and production company operating in India with centers in multiple states.
- 100+ SOX IT control testing, review & maintenance was performed manually by the client
- PwC team proposed a two • layered approach for control testing wherein, "Type 1" controls were purely automated by GRC PC. "Type 2" were automated by integrating RPA & GRC PC

What we Delivered

IT Process Transformation Outcome



70% Overall effort reduction





Increased

testing

Centralized repository for frequency of controls across 40+ domains

Leveraging Best Practices of both **GRC PC & RPA**

How did we start?

- We studied all the RCMs in different business processes/systems/ domains which were applicable to the client
- · We carefully noted which all controls can be automated and via what technology which will suit the existing IT setup of the client
- Our suggestion of SAP GRC PC, AC and SAP iRPA (SAP BOT) was appreciated for the longterm strategy at the client
- We proposed 80% of automation that could be achieved using the technology suggested
- We delivered 80% of automation promised

The engagement was delivered within a timeframe of 6 months including end to end test of design and testing of effectiveness of controls.

How did the process transformation helped?

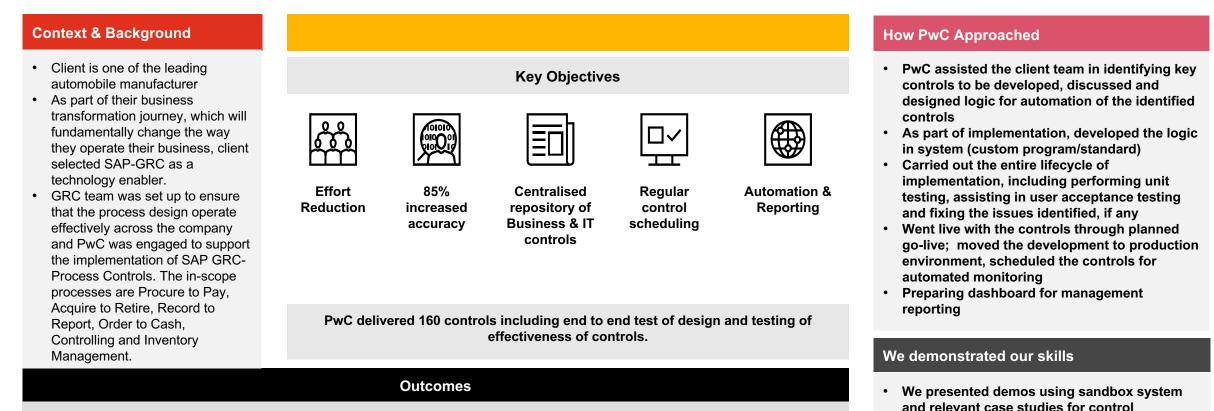
Auditor Delight - Since the testing is happening in 100% of the data population with lesser human interventions and more accuracy, the new setup is expected to bring audit cost savings, better governance and reduced time to action on an exception to the client

Expansion of Work – Since client has diversified business within India, other business units are actively thinking about adoption of this successful model of control automation

We demonstrated our skills

- We presented demos using sandbox system and relevant case studies for control automation. Our past record of successful implementations helped us achieve our goals
- Domestic
- International

Business Process Controls Automation



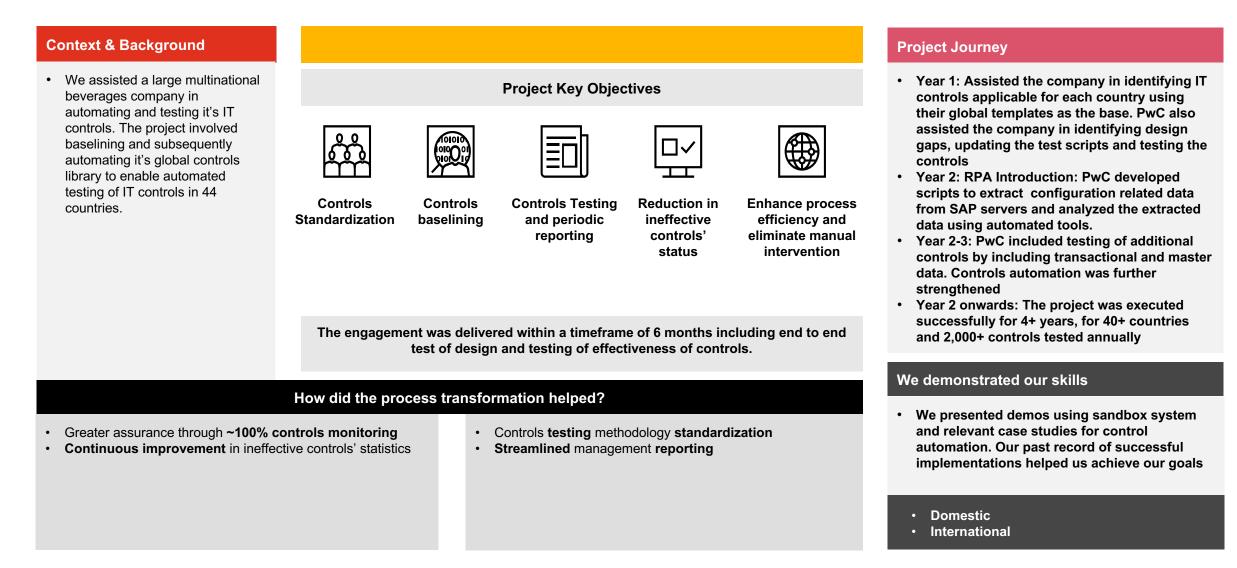
With the automation of these controls, the organization has been able to focus on streamlining and bringing parity and transparency in its business processes and being able to plug the gaps which are either operational or system driven. These controls have also helped in automating reporting on key month end parameters for e.g., instances of delayed vendor payments, instances of overdue amount from customers which were manually extracted, hence saving time for the team.

- Domestic
- International

automation. Our past record of successful

implementations helped us achieve our goals

Controls Baselining and Testing



Supporting Risk Resilience, security design and operations for one of the world's largest Oil and Gas major since 2017

Context & Background PwC is responsible for supporting **Key Objectives** the client across multiple cyber security requirements to improve their compliance posture, adhere to regulatory requirements and increase the risk resilience of their environment. Management Efficiency **Risk Assessments** Reporting Support & Vulnerability Management The engagement was delivered within a timeframe of 6 months including end to end test of design and testing of effectiveness of controls.

Outcomes

Increased Protection: Conducted risk assessment across the client's information technology landscape and supported in addressing risk for applications, infrastructure and platforms alike.

Increased Efficiency and Decreased Cost: Work with the client's Global In-house Center (GIC) in flexible delivery models to increase GIC workload and deliver consistent outcomes.

Faster Response Time: A skilled responsive team driving business agility across various business processes to ensure security becomes a business enabler and not an overhead or a blocker.

How PwC Helped

- Protecting the Crown Jewels: Performed risk assessments based on Client's risk management methodology to identify risk to critical assets
- eGRC integration support: Developed, tested and rolled out multiple iterations of client's GRC too. Also delivered integration activities with enterprise applications
- Cyber Forensics: Malware and incident analysis to identify Indicators of Compromise (IoC).
- · Data privacy requirements: Validated the designed controls around Personal Data and completed the necessary review with the Data privacy Legal counsel.
- Threat and Vulnerability Management: Execution of Penetration testing activities on core infrastructure and applications includes reporting vulnerabilities and re-testing once reported as remediated.
- User identity visibility: Cleanup of user identities across 200+ applications across client's affiliates
- RPA secure implementation: Continuously assessed and monitored the nature of the bots that were deployed and incorporated security best practices through workshops/ sessions
- **Risk PMO support:** Risk Project management in area of cyber security, information security, risk assessments and implementations of services/applications across IT
 - Domestic
- International

Thank you

Data classification: DC0 (Public)

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