

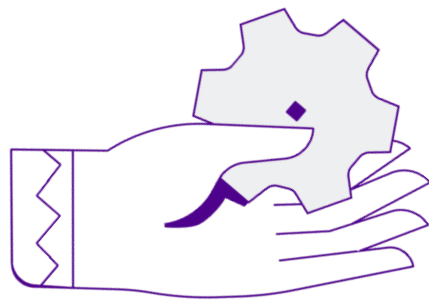
KSA Application Center Portfolio

JUNE 2023

CONTENT



- Service Portfolio
- Opportunities to Projects Workflow
- Delivery Approach
- Products/Projects References




Service Portfolio

Custom Applications Services (1 of 2)




Application Development

Different flavors of programming language and technology used for building the application logic, testing and containerization and deployment.





Application Integration

Decoupling solutions for facilitate Integration and data flow across apps also automation for workflow and decision.





Application Modernization

Platform for Containerized Services and Micro services and managing exposure, access and the traffic





UI/UX

- › UX: Human-first approach of designing products, Service or experiences in form of prototyping and Wire framing
- › UI: Visualizing a touch-points that allow users to interact with the solution and adaptation to all device screen sizes











Custom Applications Services (2 of 2)




Quality Assurance

Testing service for functional testing and non-functional testing










Omni Channel

Cross-channels Customer engagement & Customer experience solutions



DevOps

DevOps Tool Chain and CI/CD pipeline



Business Applications & Data Analytics Services



ERP

By connecting companies' financial and operational systems to a database serving as vital data repositories, this supports in the efficient business operations and workflow.



ERP



CRM & Portals

These software platforms help manage how customers interact with organizations' businesses.



Microsoft Dynamics CRM



SharePoint



nintex
K2



Data Analytics & AI

The systematic analysis of data is used for the discovery, interpretation, and communication of meaningful patterns in data. This helps in effective decision-making.



Power BI



Qlik Sense



tableau

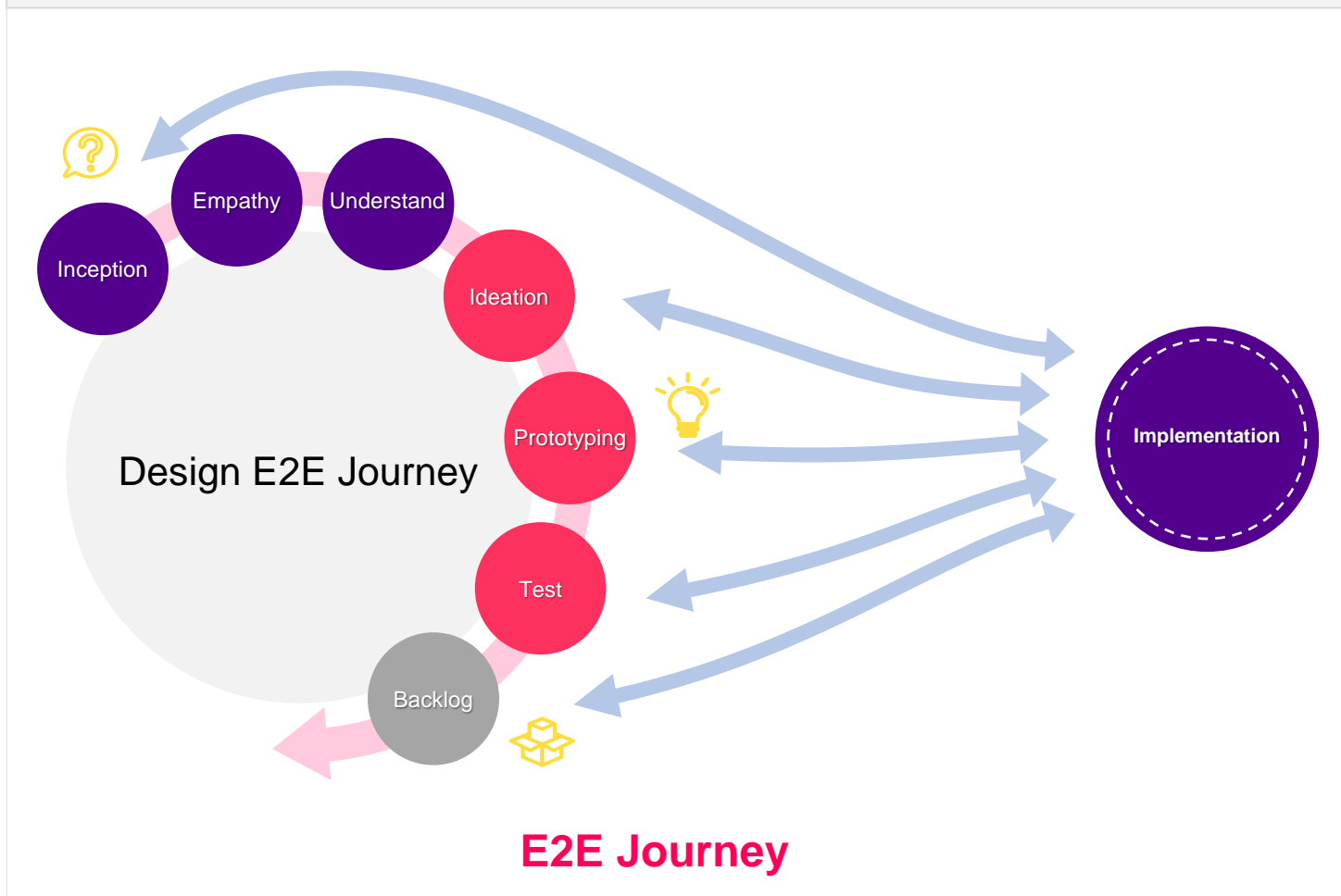


Informatica



Enterprise Design Thinking

Start in-depth research with customers and stakeholders to reimaging the future journey and design the optimal digital experience for the user.



Research & Insights

- Identify areas of consideration and possible improvements.
- Measure the maturity of our product or service.



Design Thinking Sprints

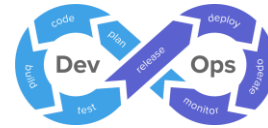
- Discover new ideas and improve existing products & services.
- Understand the users needs and prototype the solutions before the implementation.



Transformation

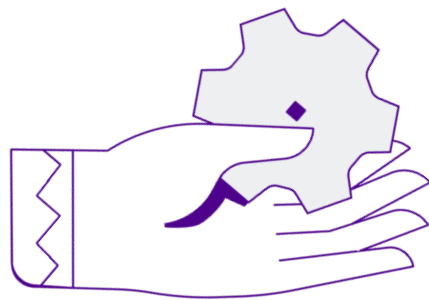
- Work with the right teams to understand their customers' needs,
- Enable and design optimal experience.

Certifications



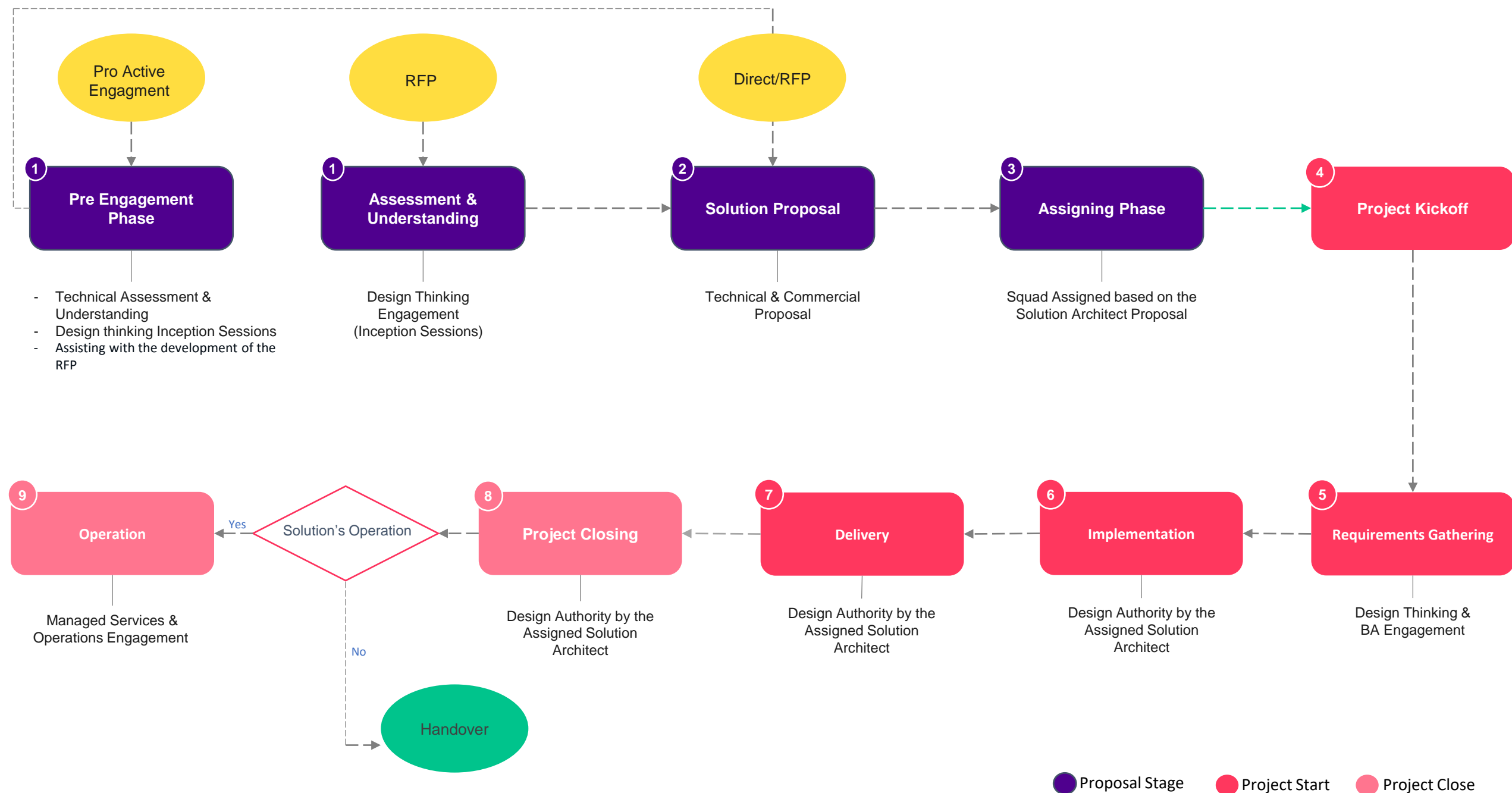
New IBM Certification

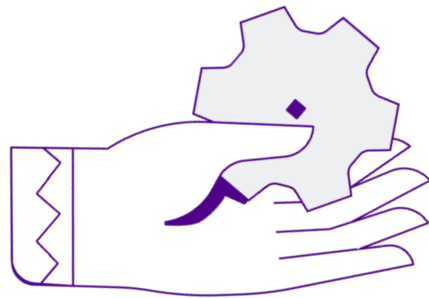




Opportunities to Projects Workflow

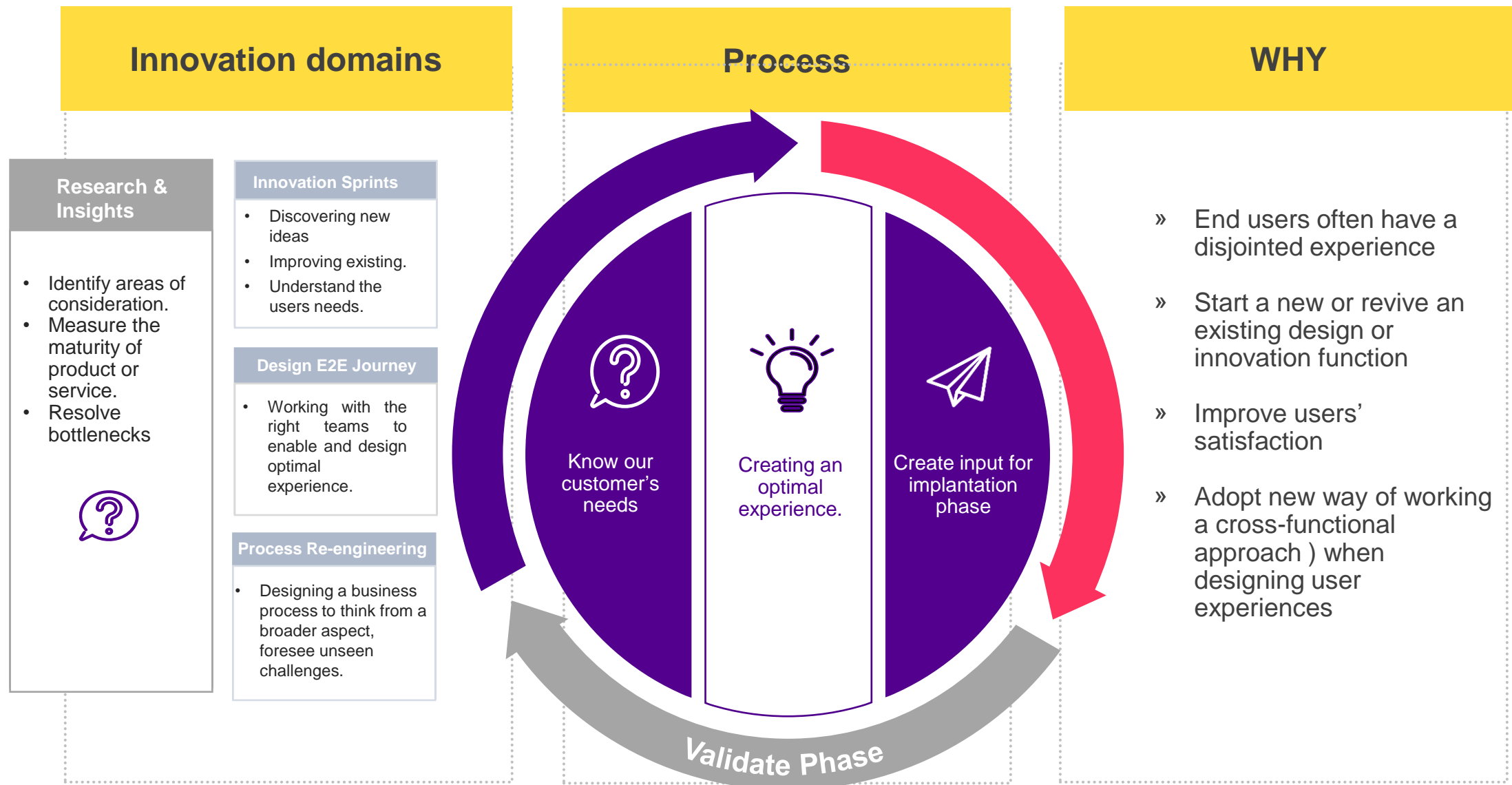
Opportunities to Projects Workflow





Delivery Approach

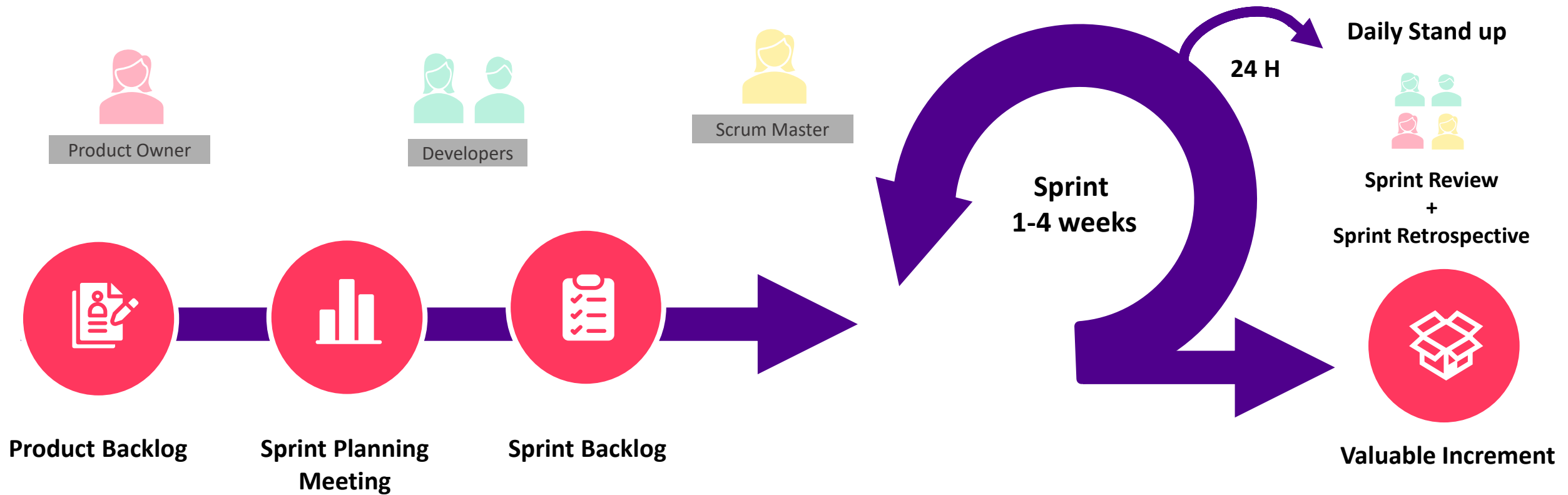
Design Thinking Approach

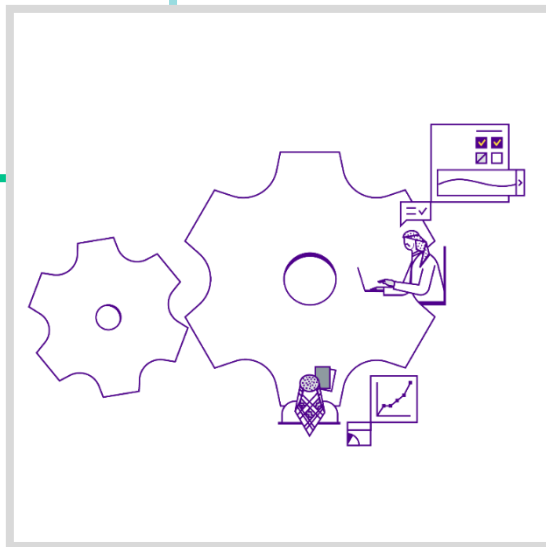


The Roadmap Based on Design Thinking & SCALED Agile Mindset

PHASE	Design Journey						Agile & Shaping Shaping is a continuous activity to feed the backlog					
STAGE	Inception	Understand	Observation	Synthesis	Ideate	Prototype & Test	Squads' Backlogs	Sprint planning	Build products	Evaluate & measure	Release Optimization	
DESCRIPTION	<p>Coalition Workshop: Revisit the sense of urgency for change with all heroes formulate together Vision & Mission communicating the business need, urgency, and vision for change.</p> <p>Identify Champions Select and identify (Squads, PO..Etc)</p> <p>Identify Change Agents Select the Change agents from each department.</p> <p>Capture & define strategic themes and OKRs Establish critical measures, create initial streams' process and vision for portfolios Establish communication strategy.</p>	<p>Empathy with customers - Define draw stakeholder Map - Understand all context and status quo</p>	<p>- Prepare and conduct Field research - Different observation methods - Interviews</p>	<p>- Formulate and verify opportunity areas - Design and define customers journey and sensor journey future journey</p>	<p>Design the future experience - Idea generation based on the selected opportunity areas - Selection of ideas</p>	<p>Groundwork for implementation Best ideas will be prototyped and used for feedback by : - Feedback interviews with relevant stakeholders. -By installation. -By any means to test usability and feasibility. Tested and iterated ideas are installed and handed over</p>	BACKLOG	<p>- Prepare and priorities squads backlog based on Business needs - Breakdown the concepts -> Epics -> Features - Publish approved backlogs on JIRA</p>	<p>- Prepare Implementation plan for squads - Release planning for each value stream (MCP) Multi Cycle Plan -Publish approved plans on JIRA</p>	<p>- Working Squads' Execution & Delivery -Train execution and Delivery based on the approved release plan - Apply agile ceremonies such as (stand ups, retros, release planning ,..etc.)</p>	<p>- Evaluate working squads' performance based on the approved GOV model and KPIs - Align & approve corrective and improvement actions -Alter process, GOV model , KPIs based on the findings publish approved actions on JIRA</p>	<p>- Enhance Feedback loops & markers - Optimize batch sizes at scale - DevOps improvements regarding delivery -Optimize and Automate functional test</p>
	OUTPUT	<p>Communication management plan , Stakeholder register, social contract Kick-off event to launch journey</p>	<p>Research, Benchmark , As-is Journeys , Pain points register, Opportunity maps, Personas , Future Journeys, Low-fidelity prototypes, Ideas register, Concepts cards</p>					<p>Features Backlog, Enablers -Architectural, Infra , apps and analytical capabilities, Solution Roadmap (transition), Driving AS-IS to TO-BE transition ,Decision trees, User stories, Updated MCP, Hi Fi Wireframes, Clickable prototypes, UI Components, Dependency Map</p>				

Delivery Approach





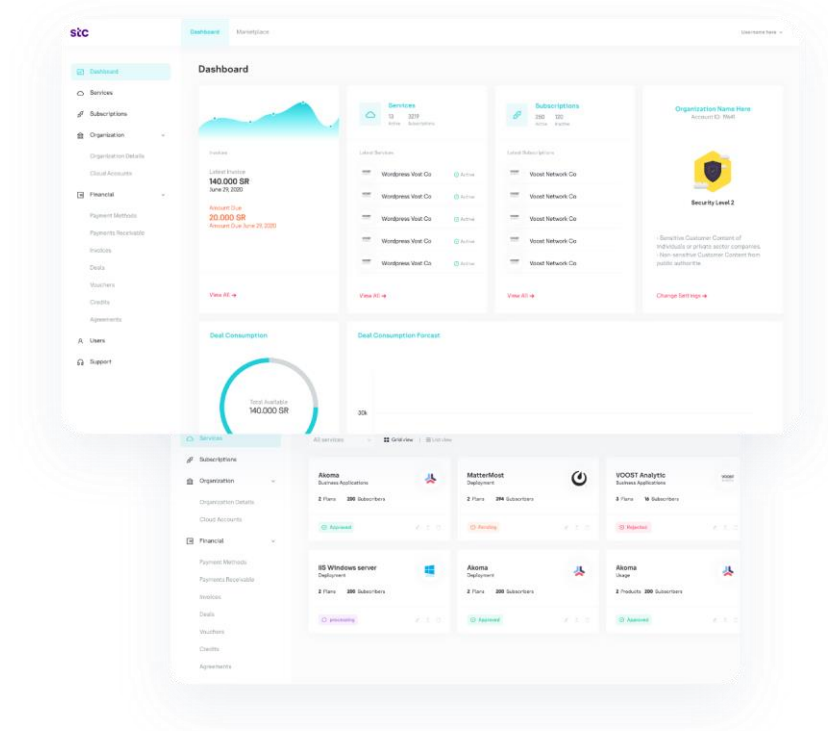
Products/Project References

The Service Delivery Platform is a component of business that defines the interaction between **providers** and **clients** where the provider offers a service. It integrates with our internal systems to handle revenue, finances, and ticketing. Key features include **Defining the services** by product managers and service providers in the marketplace. **Defining the deals** for specific customers by onboarding the PO for the customers in the marketplace and Giving a **customer credit** to bill his invoices by them instead of billed through my business. Additionally, we have a **distributor model** where partners register and act as resellers, leveraging their extensive customer base to promote and sell our products.

Team Members: 15

KSA Based: 9

Egypt Based:



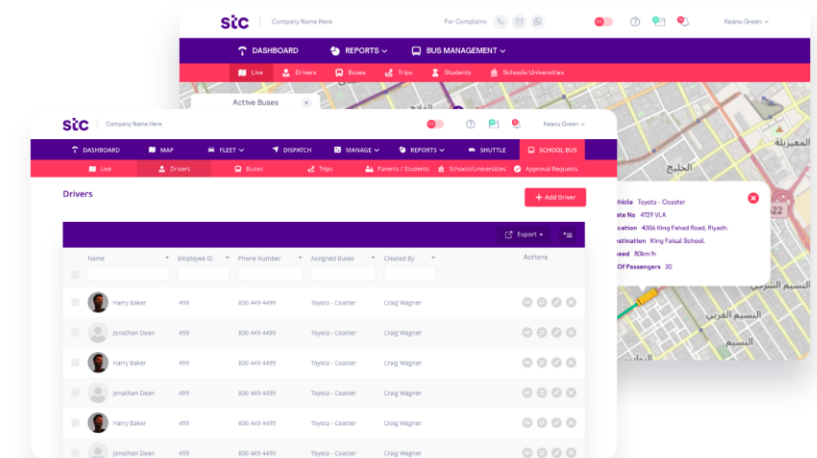
Fleet Management

Fleet Management System provides the tools to manage and keep tracing the transportation workflow that is done through the fleet step by step, so that customers will always be aware of their fleet information and route. It enables customers to increase the efficiency of their business and accomplish it according to punctuality with step-by-step tracing.

Team Members: 7

KSA Based: 3

Egypt Based: 4



Certified PTA

Certified SFDA

Certified CITC



STC CBU (Consumer Business Unit)

STC CBU (Consumer Business Unit) Wants to analyze , source and visualize 3000+ existing KPIs
STC analytical data platforms EDW & EDL) contain valuable data to serve versatile analytical business use cases. Consumer Business Unit has a revenue assurance function that already consumes this data to address their reporting, analytical and reconciliation.

Technologies

STC Pay DevOps

DevOps practices combine application development, infrastructure and operations activities, with a heavy push toward automation to shorten delivery times while improving quality. A main goal of the project is to integrate security processes and tooling into engineering workflows and supporting technology stacks. Four patterns of application security concentration emerge as organizations embrace DevOps practices.

Technologies

Tawal SOE

The objective of the project is our vision to implement the Tawal digital systems to reflect the defined digital hacks as follows.
Provide 360 Customer System to support customer centricity by
Provide resilient digital culture for employee systems and combine all employee services and systems in one portal and mobile application.
Provide best-practice architecture and delivery to support Business-as-Usual and enterprise architecture.

Technologies

صندوق تنمية الموارد البشرية
HUMAN RESOURCES DEVELOPMENT FUND

Development Career Platform

- The Unified Employment Platform will provide a variety of services to a broad category of users, across both the supply and demand side of the labor market
- Provide resilient digital culture for supply and demand sides and combine all needed services and systems in one portal and mobile application.
- Provide best-practice architecture and delivery to support Business-as-Usual and enterprise architecture.

Technologies

الهيئة السعودية للبيانات والذكاء الاصطناعي
Saudi Data & AI Authority

Data Protection Platform

- Aim to govern all aspects that related to data privacy and the optimum way for protecting the individual and organization data.
- Platforms will organize collecting and processing personal data through easing business processes that govern the data protection commitment.
- Provide best-practice architecture and delivery to support Business-as-Usual and enterprise architecture.

Technologies

أرامكو السعودية
Saudi Aramco

Web Application for Super Computers

STCS team developed 2 integrated web-based applications for Aramco:

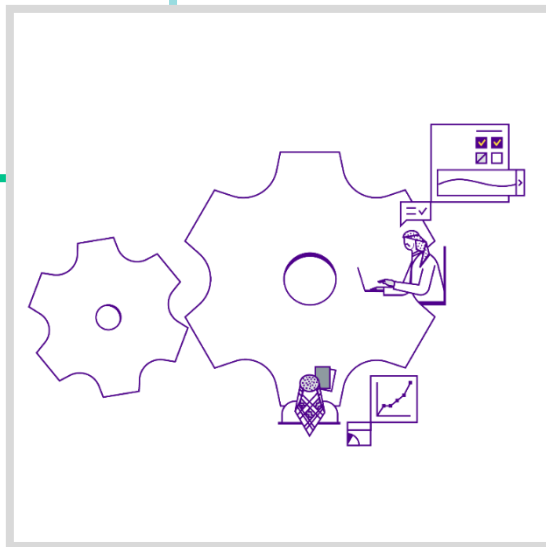
- 1 – Seismic Job Management
Web-Based application to submit seismic jobs and monitor their progress via SLURM scheduler on the Saudi Aramco High performance Computers .
- 2 – Seismic Project Management
Web-Based application to create, copy, and delete seismic projects via third party applications to be processed on Saudi Aramco High Performance Computers.

Technologies

<p>SAP S/4 HANA and SAPHXM Implementation for Saudi Aramco</p>	<p>Digital Platform for Invoicing</p>	<p>SAP S/4 HANA and SAPHXM Implementation for NCC</p>	<p>SAP S/4 HANA and SAPHXM Implementation for SBC</p>
<p>SAP S/4HANA Digital transformation conducted to come up with a complete SAP Digital Landscape for the AVIATION company which spun off from ARAMCO. The scope includes building a digital transformation roadmap to implement an S/4HANA Digital core ERP solutions to run the new company's business.</p>	<ul style="list-style-type: none"> End-to-end solution delivery from requirements definition to Go-Live and the Pilot leveraging Agile methodologies and best DevOps practices L3 application support; application monitoring and solution upgrades; Help desk and contact center Change management 	<p>To implement SAP S/4 HANA and SAPHXM</p> <ul style="list-style-type: none"> SAP S4HANA covers Finance and Logistics functions. SAP SuccessFactors covers HR personnel administration, payroll and performance management processes. 	<p>To implement SAP S/4 HANA and SAPHXM</p> <ul style="list-style-type: none"> SAP S4HANA covers Finance and Logistics functions. SAP SuccessFactors covers HR personnel administration, payroll and performance management processes.
Technologies			

Thank You!

Appendix



Service Portfolio in Details



Different flavors of programming language and technology used for building the application logic, testing and containerize and deployment

Technologies



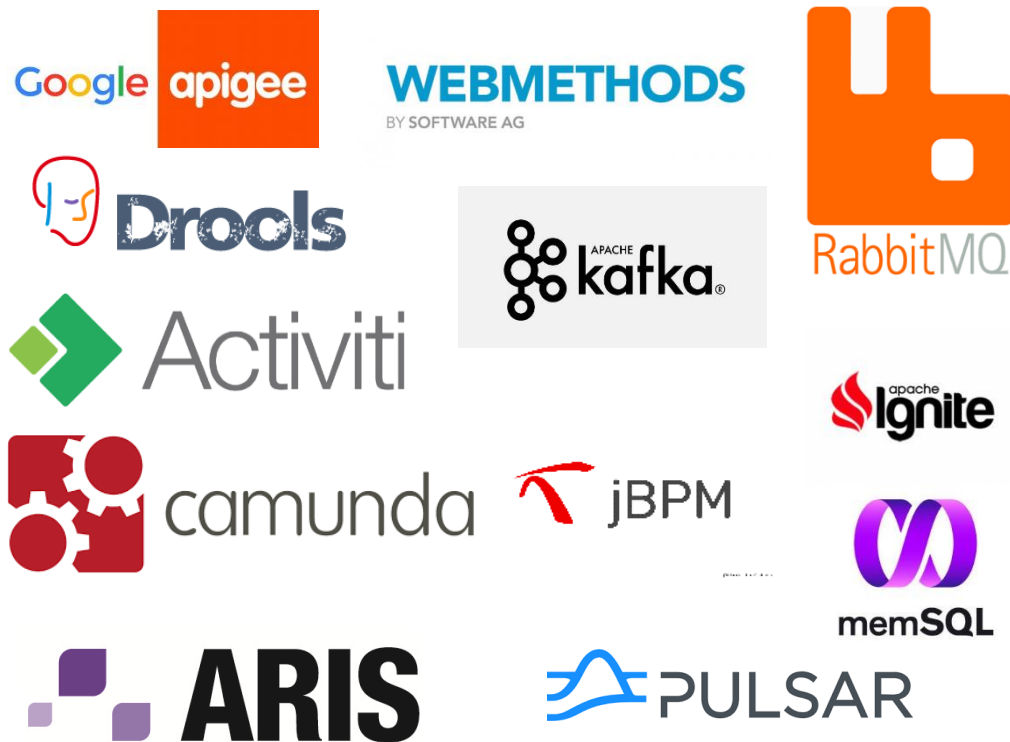
Offerings

- › Developing and Testing a high-quality solution
- › SOA/Microservice Development
- › API Design and implementation
- › Automation for packaging and Containerize the generated code to be deployed in Container management platform , Stored in Artifactory management or deployed in application server
- › Backend Development for UI system Web or Mobile
- › Integration logic for:
 - Data access layer DB
 - FDA
 - Message broker
 - Notification Center



Decoupling solutions for facilitate Integration and data flow across apps also automation for workflow and decision

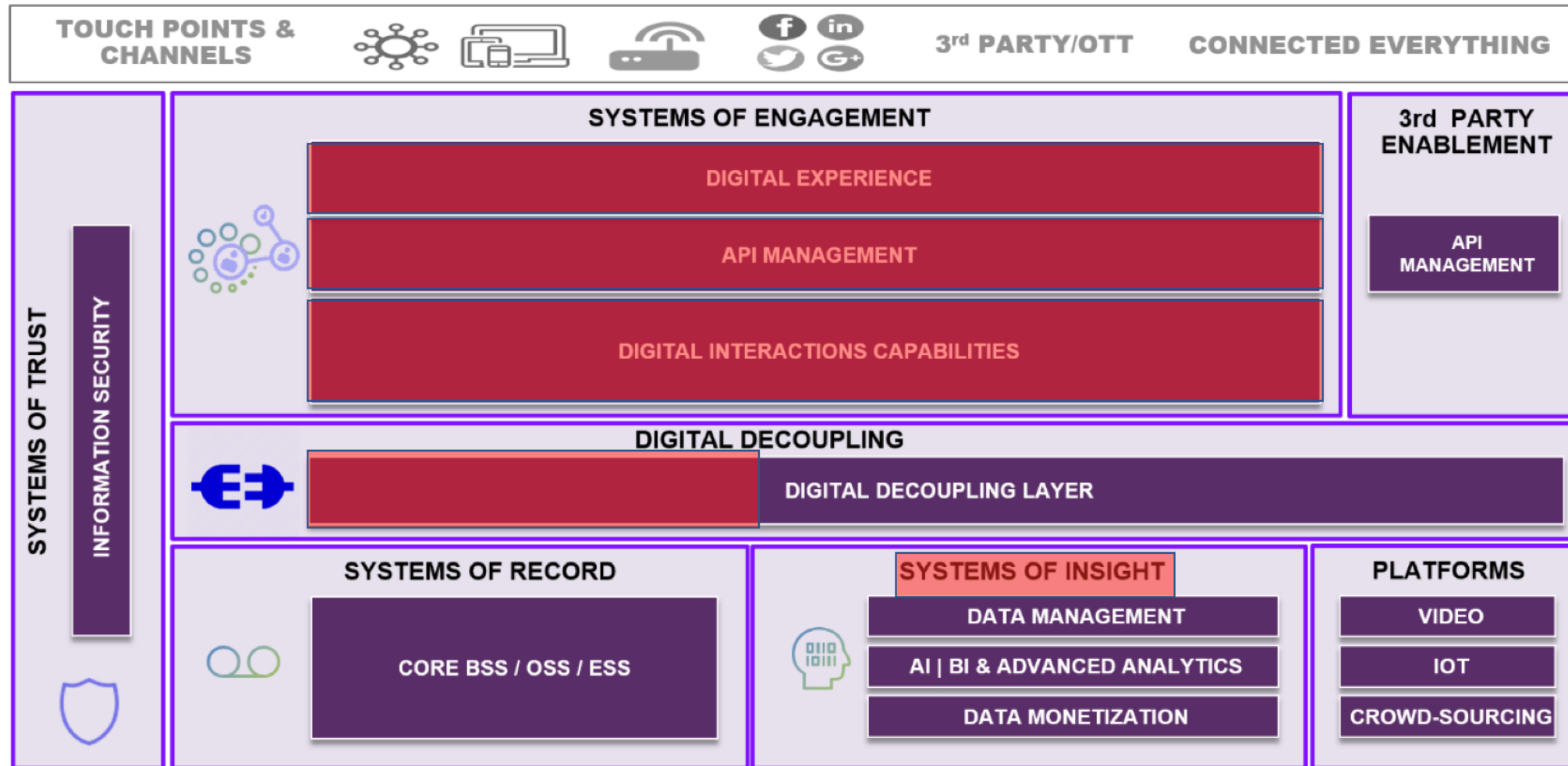
Technologies



Offerings

- › Implementing /Configure the decoupling solutions
- › Designing the Workflows and decision logic using BPM solutions
- › Implementing Message Broker and Event driven solutions
- › Fast Data Access for Caching the business entities in memory DB solutions
- › API Management solution

Digital Reference Architecture for STC



Microservices Transformation

Microservices Benefits

The microservices architecture functions on independent lightweight modules, which are grouped around particular features. Microservices architecture helps deliver agile, scalable software, but success requires more than new architecture patterns.

Microservices Farm

Building a Microservice Farm on top of Redhat OpenShift that currently installed at customers

Service mesh

Applying Service Mesh for more control and visibility on the running service

Devsec Ops

Applying DevSecOps practices in the SDLC

Monolithic to Microservices

Monolithic approach is counterproductive for some dynamic services that require frequent changes. We will provide the proper approach to move to MSA and mitigating the business risks

Modernization Approach

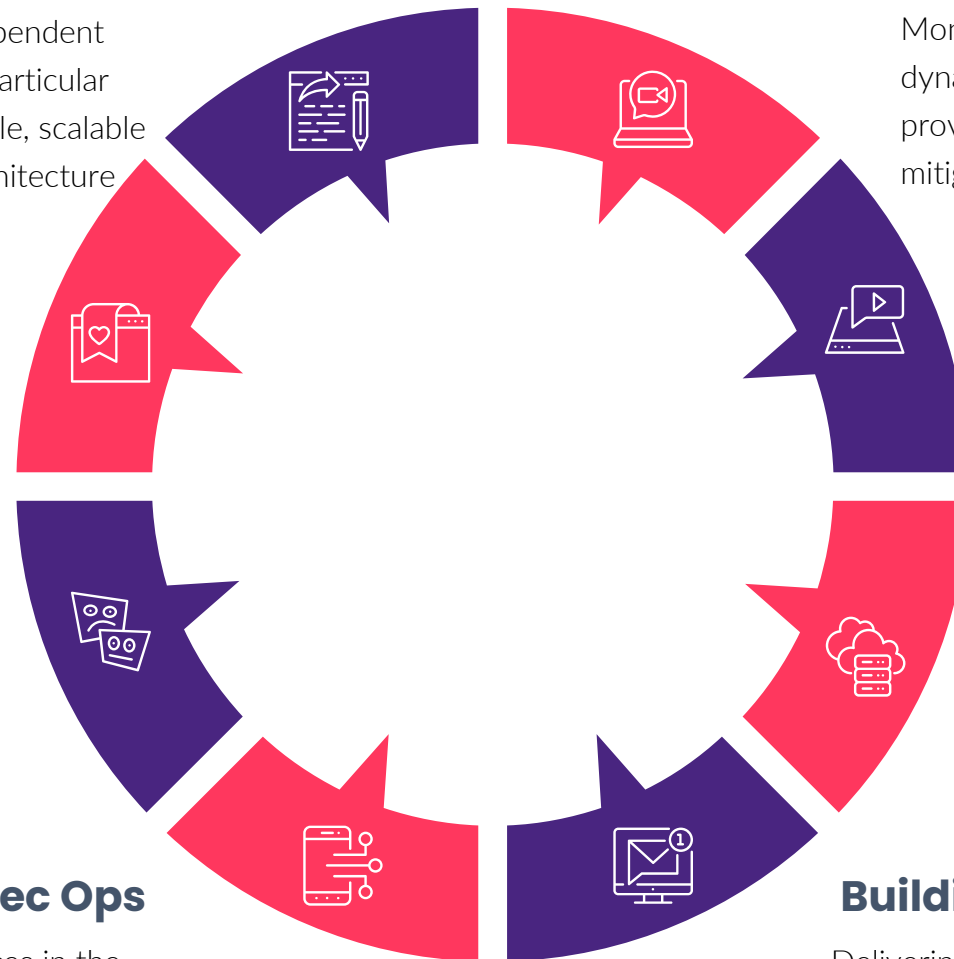
Working with Customers for putting modernization and migration approach for the existing monolithic service/application

Building a Service Catalogue

Building a service catalogue for the potential services that can be refactored to microservices or can be containerized and deployed in OpenShift

Building Microservices

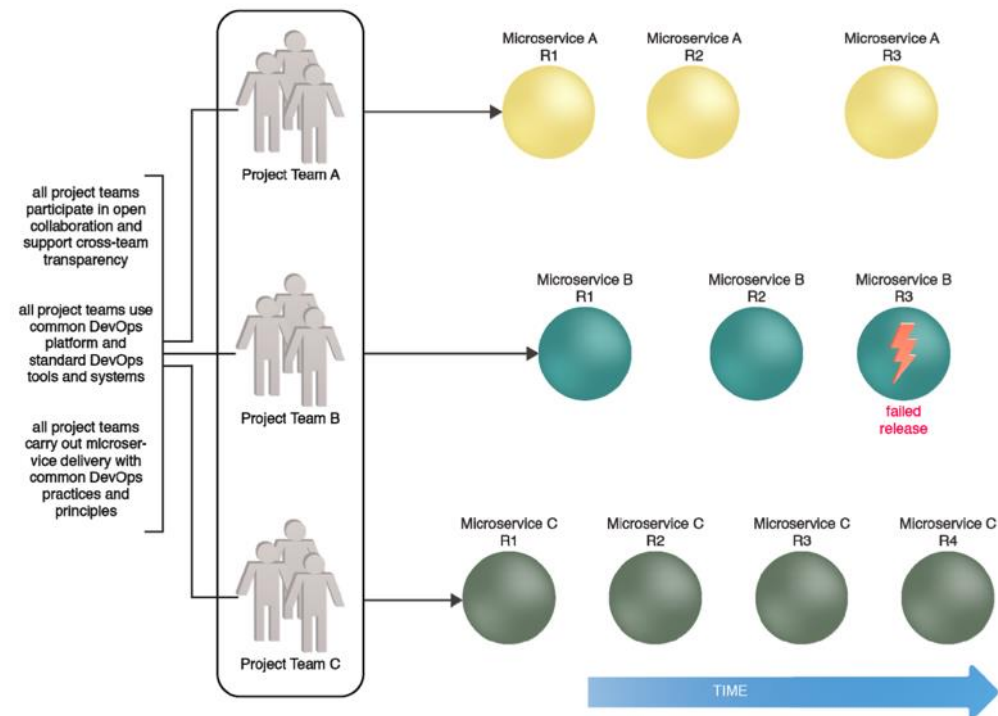
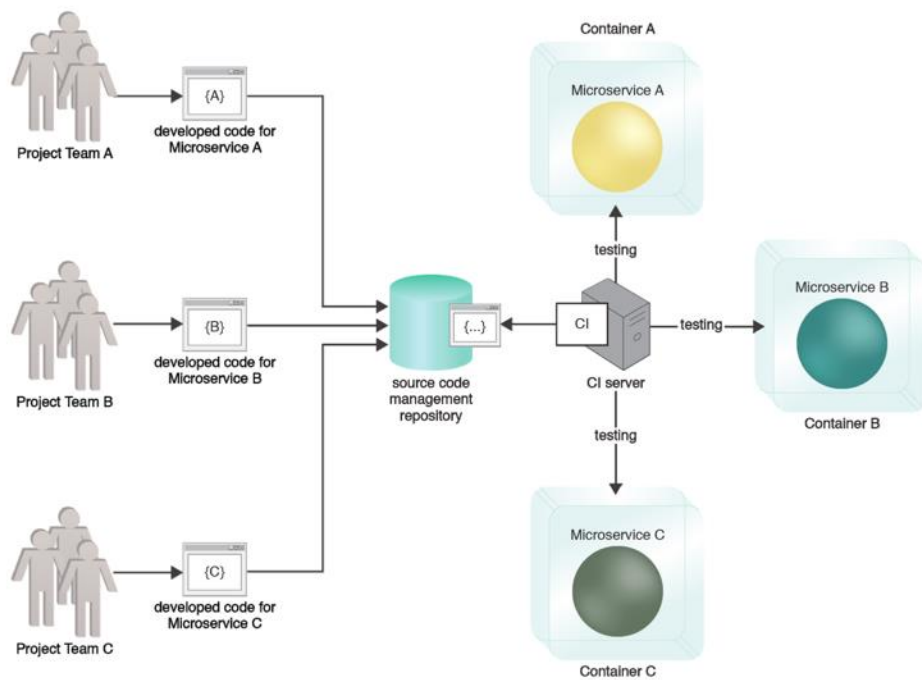
Delivering microservices implementation the Service



DevOps + Microservices + Containers

Microservices especially when paired with DevOps can be:

- rapidly updated and redeployed independently from other services
- New Version of Microservices can be tested and deployed separately





UX: Human-first approach of designing products, Service or experiences in form of prototyping and Wireframing
UI: Visualizing a touch-points that allow users to interact with the solution and adaptation to all device screen sizes

Technologies



Technologies listed include: Adobe XD, Vue.js, Angular JS, React Native (iOS, Android), JSF (JavaServer Faces), Dart Flutter, and REACT.

Offerings

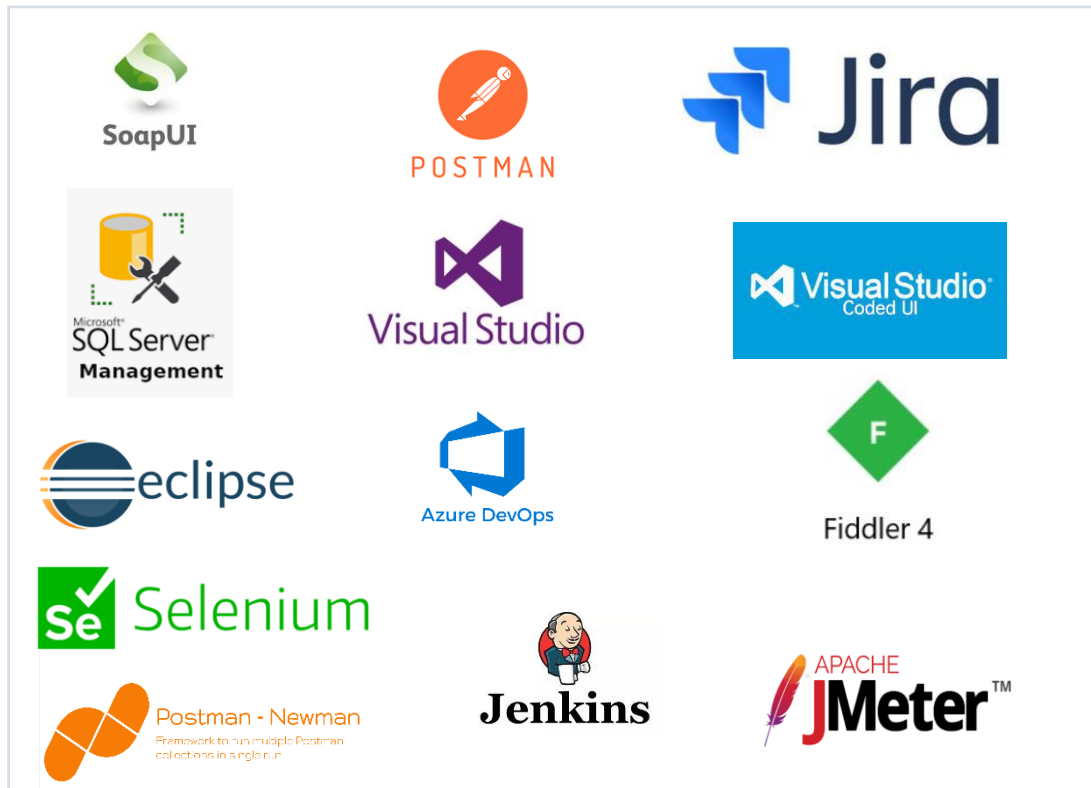
- › Design studio Workshops for better understanding for the product , service and customer behavior
- › Building the solution prototyping and wireframing
- › Designing and developing the Solution UIs (Web/Mobile)
- › Integration with the Solution Logic through API



Different Testing services to ensure best quality assurance for the different Applications and Systems

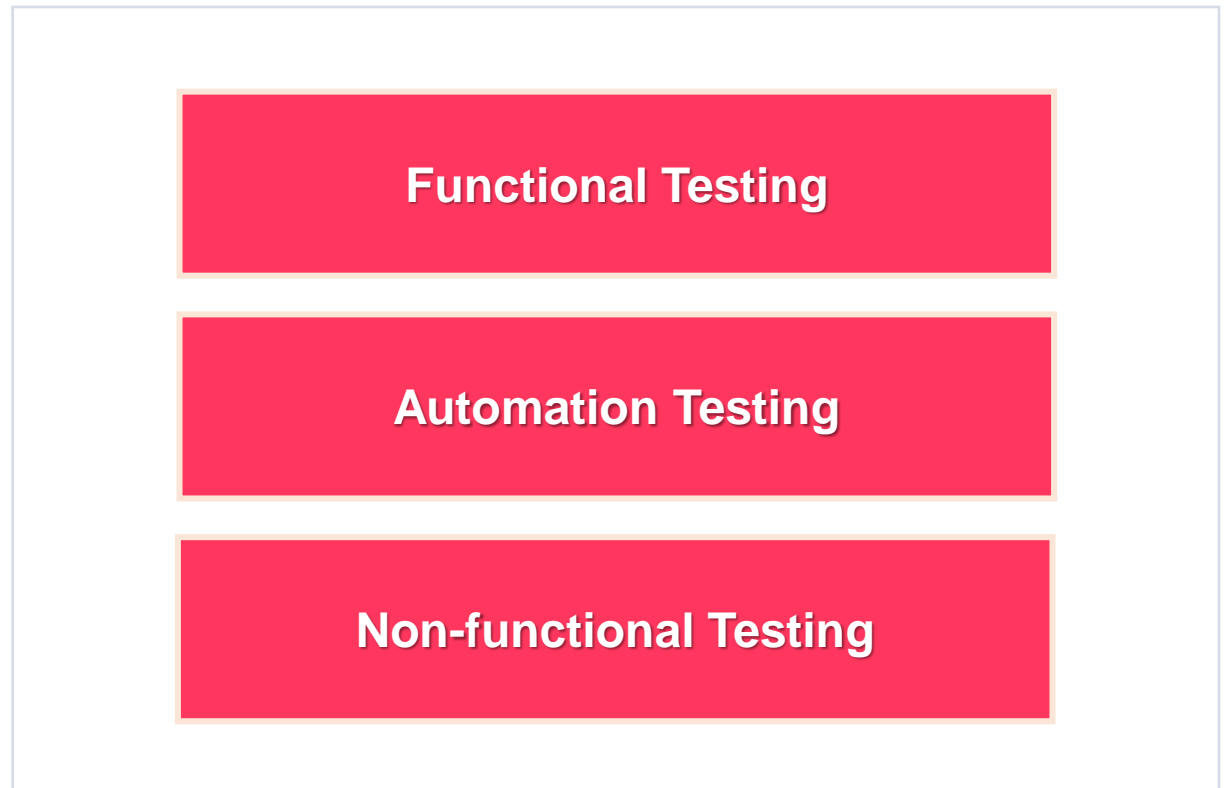
Technologies

Offerings



Technologies listed:

- SoapUI
- POSTMAN
- Jira
- Microsoft SQL Server Management
- Visual Studio
- Visual Studio Coded UI
- eclipse
- Azure DevOps
- Fiddler 4
- Selenium
- Jenkins
- Postman - Newman
- APACHE JMeter™



Offerings listed:

- Functional Testing
- Automation Testing
- Non-functional Testing



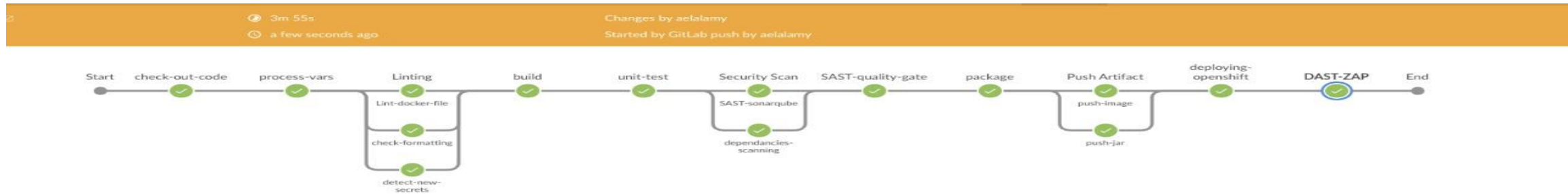
Cross-channels Customer engagement & Customer experience solutions

Technologies



Offerings

- › Implementation and configuration the Contact Center Solutions
- › Developing the Self-Services and Bot Services in all Engagement Channels (Voice-Chat-Social)
- › Provide 360 View for the customer Interactions in deferent channels
- › Integrating with Bot Solutions for ChatOps in many text channels like SMS/Webchat/Mobile Chat/FB Messenger/Whatsapp



Technologies



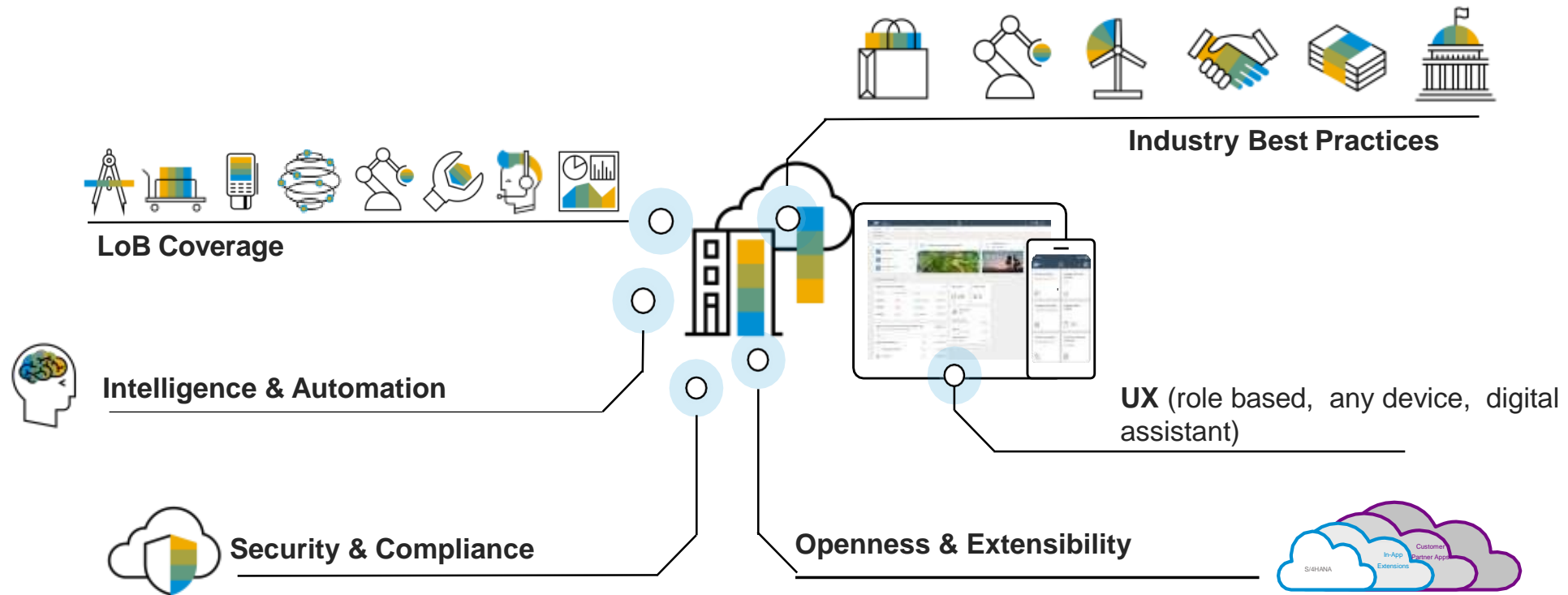
Offerings

- › Supporting the customer for building DevOps practices adoption Roadmap
- › Installing ,Configuring and integrating DevOps Tools
- › Automating the complete SDLC with DevOps Tools.
- › Integrating Security tools with CI/CD pipeline for DevSecOps
 - Vulnerabilities check
 - Image Scanning
 - SAST
 - DAST
 - Code quality

Sample DevOps Tool Chain Implemented for Our Customer



SAP S/4HANA: Next generation ERP



ONE Code-line | ONE Data Model | ONE Semantic | ONE User Experience



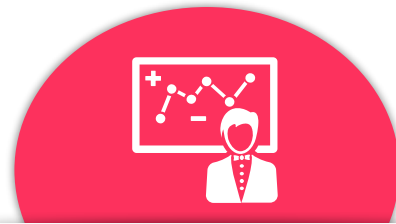
Microsoft Dynamics 365 CRM Product



Data Management Services



Data Architecture



**Meta Data
Management**



Data Quality



Data Governance



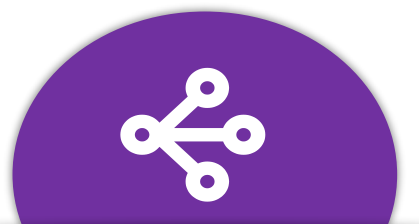
**Master and reference
Data Management**



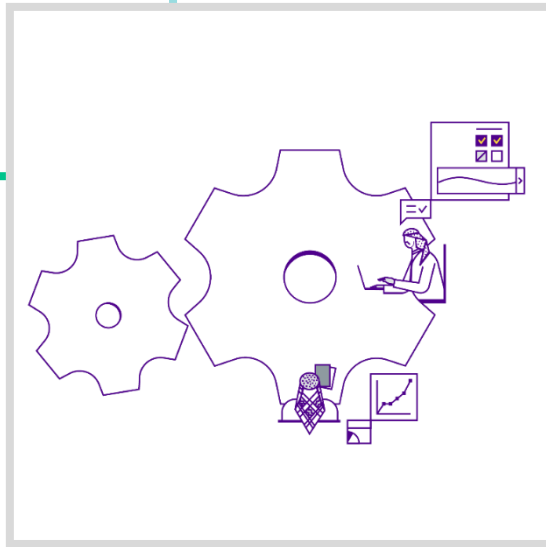
Data Integration



Data Analytics



Data Visualization



Project References Details

Project Overview

- The objective of the project is our vision to implement the Tawal digital systems to reflect the defined digital hacks as follows.
- Provide 360 Customer System to support customer centricity by
- Provide resilient digital culture for employee systems and combine all employee services and systems in one portal and mobile application.
- Provide best-practice architecture and delivery to support Business-as-Usual and enterprise architecture.

Approach & Methodology

- > Microservice Architecture
- > CI/CD Tools
- > Container& Orchastration Management Platform



Key Achievements

- > Delivering the Complete design for the SoRs :
 - Customer portal
 - Employee portal
 - Landord Pirtal
 - CMS Using Adobe Experience Manager
- > Define/Installing the DevOps Tools Chains

SD-CS3: Aramco Web Application Development

Project Overview

STCS team developed 2 web-based applications for Aramco:

1 – Seismic Job Management

Web-Based application to submit seismic jobs and monitor their progress via SLURM scheduler on the Saudi Aramco High performance Computers .

2 – Seismic Project Management

Web-Based application to create, copy, and delete seismic projects via third party applications to be processed on Saudi Aramco High Performance Computers.

أرامكو السعودية
Saudi Aramco



Approach & Methodology

Agile Methodology to Deliver Using the below Technology Stack :-

- > 1-Angular 10
- > 2-PrimeNg
- > 3-Spring Boot
- > 4-Spring Cloud
- > 5-Spring LDAP
- > 6-MariaDB
- > 7-AdobeXD
- > 8-Slurmrestd
- > 9-Oracle DB



ORACLE
DATABASE



Xd ADOBE XD



Key Achievements

Two web-based applications;

- > Seismic Job Management.
- > Seismic Project Management.

SD-CS4: STCPay DevOps

Project Overview

DevOps practices combine application development, infrastructure and operations activities, with a heavy push toward automation to shorten delivery times while improving quality. A main goal of the project is to integrate security processes and tooling into engineering workflows and supporting technology stacks. Four patterns of application security concentration emerge as organizations embrace DevOps practices.

Approach & Methodology

- > Installation for Nexus Repo in HA Mode.
- > DR site for Nexus Repo.
- > Installation of Nexus IQ Server.
- > Gitlab Integration.
- > Solution Configuration.

The logo for 'stc pay' features the letters 'stc' in a bold, purple, lowercase sans-serif font. The letter 't' has a small square cutout at its top. To the right of 'stc', the word 'pay' is written in a green, lowercase sans-serif font.

Key Achievements

- > Using Nexus Repository Manager as a single source of truth for all components, binaries, and build artifacts .
- > centralizing Stcpay components repository and finds/fixes open source vulnerabilities at every stage of the SDLC
- > Developers will make better, safer component choices early in development.
- > Ensure that policies are enforced during the build to early avoid bad components to be released in Stcpay pipeline.

Project Overview

To implement SAP S/4 HANA and SAPHXM

- SAP S4HANA covers Finance and Logistics functions
- SAP SuccessFactors covers HR personnel administration, payroll and performance management processes.

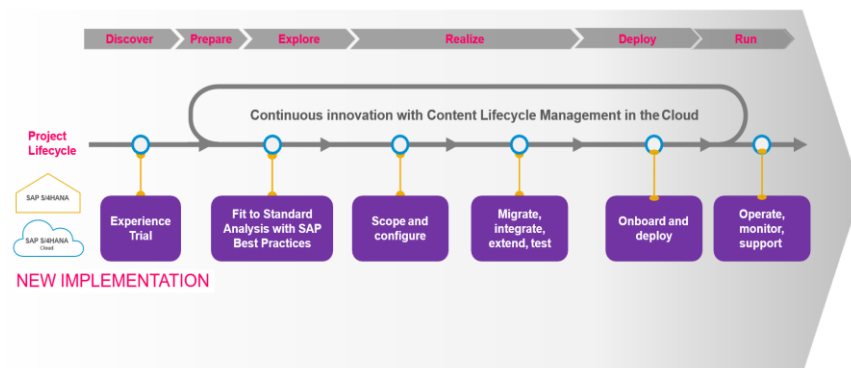


Approach & Methodology

SAP Activate

> Waterfall for SAP S4Hana

> Agile for SuccessFactors Cloud



المركز الوطني للتنافسية

NATIONAL COMPETITIVENESS CENTER

TAYSEER | تيسير



Key Achievements

- > Link existing Time Attendance system (Hudoor) with SAP SuccessFactors timesheet and payroll.
- > Integrate SAP SuccessFactors systems with Ministry of HR, Iltizam system.

Services Utilized

- > SAP S/4 HANA Cloud Implementation
- > SAP SuccessFactors Cloud Implementation
- > SAP Integration



Project Overview

To implement SAP S/4 HANA and SAP HXM

- SAP S4HANA covers Finance and Logistics functions
- SAP SuccessFactors covers HR personnel administration, payroll and performance management processes.

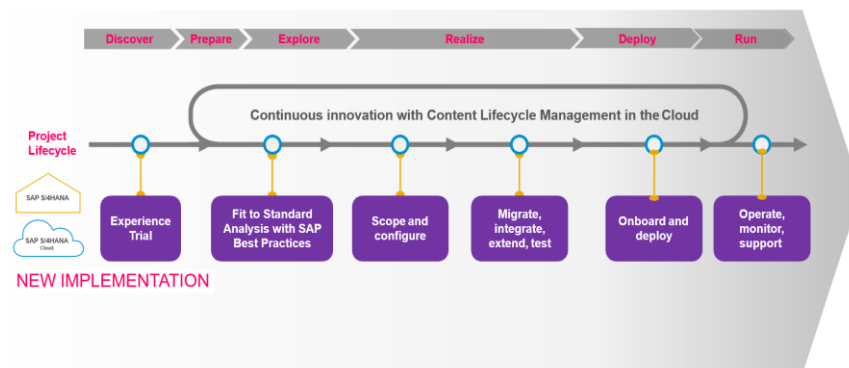


Approach & Methodology

SAP Activate

> Waterfall for SAP S4Hana

> Agile for SuccessFactors Cloud



المركز السعودي للأعمال Saudi Business Center



Achievements / Progress

- > Link existing Time Attendance system (Hudoor) with SAP SuccessFactors timesheet and payroll.
- > Integrate SAP SuccessFactors systems with Ministry of HR, Iltizam system.

Services Utilized

- > SAP S/4 HANA Cloud Implementation
- > SAP SuccessFactors Cloud Implementation
- > SAP Integration



Project Overview

SAP S/4HANA Digital transformation conducted to come up with a complete SAP Digital Landscape for the AVIATION company which spun off from ARAMCO. The scope includes building a digital transformation roadmap to implement an S/4HANA Digital core ERP solutions to run the new company's business.

Approach & Methodology

- Digital transformation roadmap includes infrastructure, networking, data center, and SAP S/4HANA as the following:
 - SAP Financials
 - SAP Controlling
 - SAP Material Management
 - SAP Sales & Distribution
 - SAP EAM – Enterprise Asset Management
 - SAP Success Factors – full fledge
 - ECM OpenText
 - Integrations with multiple Non-SAP systems (Boeing, Honeywell, Flight operation system, AMOS)

أرامكو السعودية
saudi aramco



Technology Solution

SAP S/4 HANA

SAP SuccessFactors 

opentext™

SAP Ariba 

Services Utilized

- Digital transformation roadmap to carve out AVIATION company from ARAMCO.
- Focus on SAP S/4HANA consulting services with maintaining the digital transformation roadmap.
- SAP AS-IS & Blueprint includes the value chain for the business process.

Project Overview

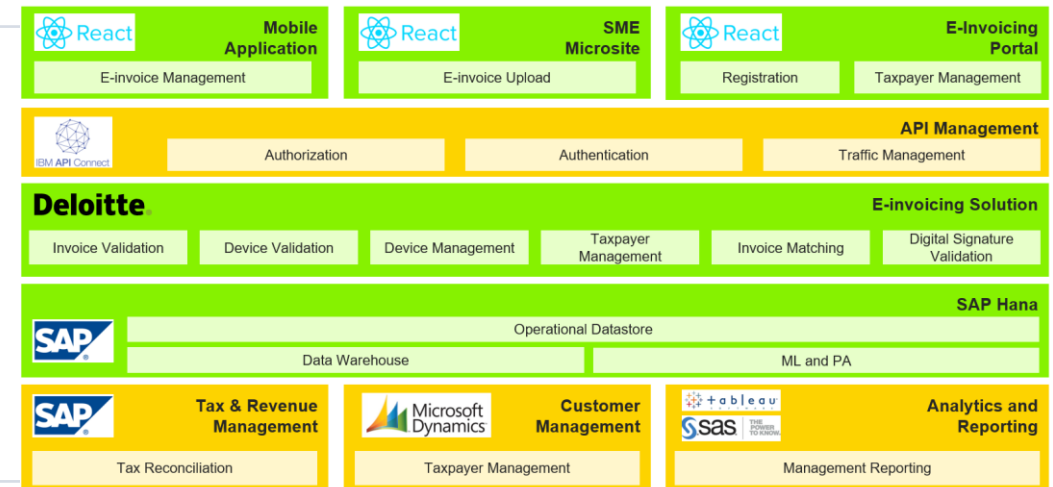
- **End-to-end solution** delivery from requirements definition to Go-Live and the Pilot leveraging Agile methodologies and best DevOps practices
- **L3 application support**; application monitoring and solution upgrades; Help desk and contact center
- **Change management**



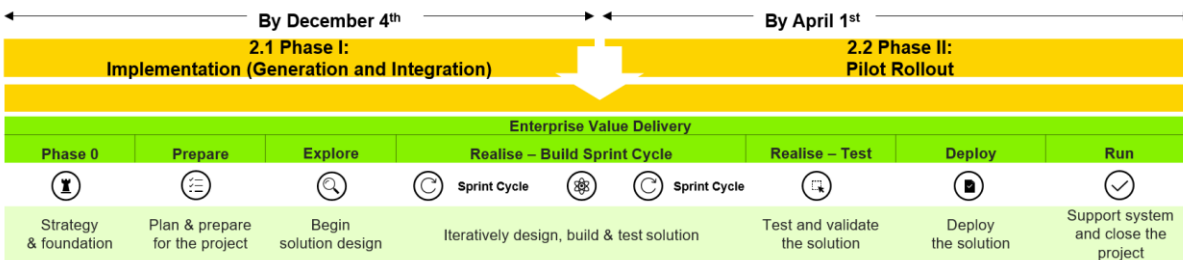
هيئة الزكاة والضريبة والجمارك
Zakat, Tax and Customs Authority



Technology Solution



Approach & Methodology



- Iterative agile cycles for the platform development
- Traditional waterfall approach for critical enablement work-streams

Services Utilized

- Development Services / DevOps
- SAS and Tableau analytics tools services
- QA Functional and technical Testing
- Functional training - (e.g., via train-the-trainer)