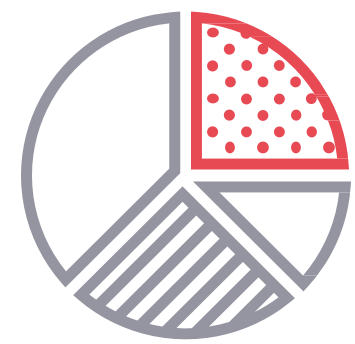


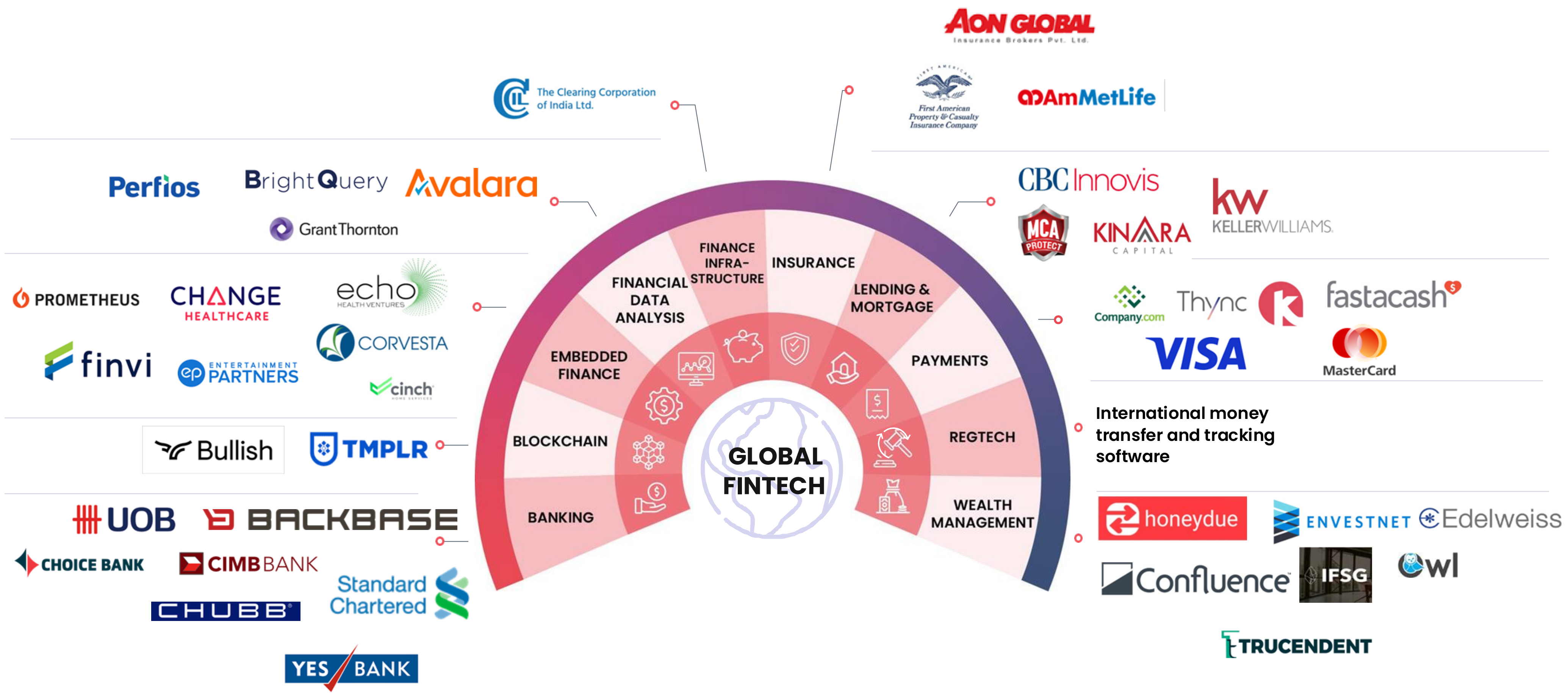
Accionlabs



FinTech™

**Accion Fintech Practice and
Current Landscape**





Spectrum of Fintech Core Functions across all sub-verticals

Product Engineering

- New product development
- Platform porting
- Product re-engineering
- Technology migration
- Integration services

Fintech Applications

- Microservices
- Data integration & interoperability
- Re-engineering of legacy applications
- User experience design
- Cloud optimization & monitoring
- Compliance and regulatory applications

Data Mgt & Analytics

- Data warehousing
- Business intelligence
- Data analytics
- Machine learning with NLP
- Conversational UI
- Chatbots
- RPA

AI & ML

- Fraud detection and prevention
- Advisory and Investment predictions
- Risk management
- Customer service
- Marketing
- Digital assistants
- Network security
- Algorithmic trading
- Loan underwriting
- Rules engine

Cloud Services

- Cloud consulting
- Cloud infrastructure
- Cloud engineering
- Cloud migration
- Cloud optimization & monitoring

Major trends in financial services are driving the need for transformation



Challenging industry economics

70%

Gap in price-to-book ratio of banks vs all other industries highlighting a need for business models to evolve¹

Rapidly growing, complex regulatory requirements

60%

Increase in operating costs for regulatory compliance over the last decade;² new regulatory standard published every 6 minutes³

Competitive dynamics and disruption

31%

31% of US consumers named a FinTech as their primary financial relationship;⁴ banks' cloud spending is forecast to grow almost 2.8X faster than overall IT budgets for the next 4 years. ⁵

Heightened digital expectations

48%

of consumers now consider mobile banking their primary account access method (up from 15% in 2017);⁵ 1,409 US bank branches closed in 2023.⁶

FinTech Customers



Thync



Payments processing, card developers, & subscription billing software tools

Companies selling insurance digitally or providing data analytics and software for (re)insurers



First American Property & Casualty Insurance Company



CHANGE HEALTHCARE



Tools to manage bills and track personal and/or credit accounts

Sales & trading, analysis, and infrastructure tools for financial institutions



TRUCENDENT

Edelweiss

CBC Innovis

Audit, risk, and regulatory compliance software

Investment and wealth management platforms and analytics tools

Confluence

ENVESTNET



Companies leveraging blockchain technologies for financial services

International money transfer and tracking software

fastacash

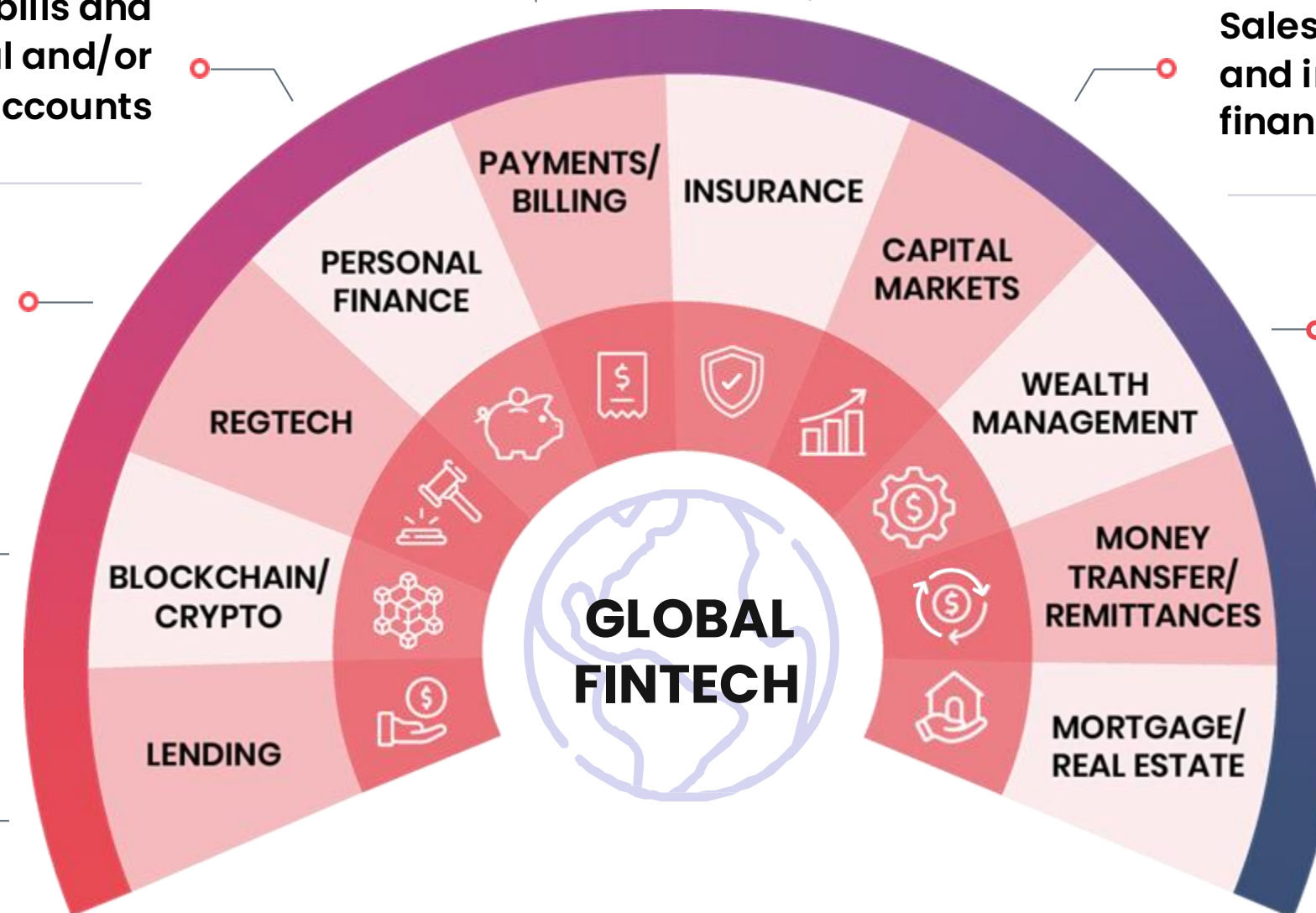


KINARA CAPITAL

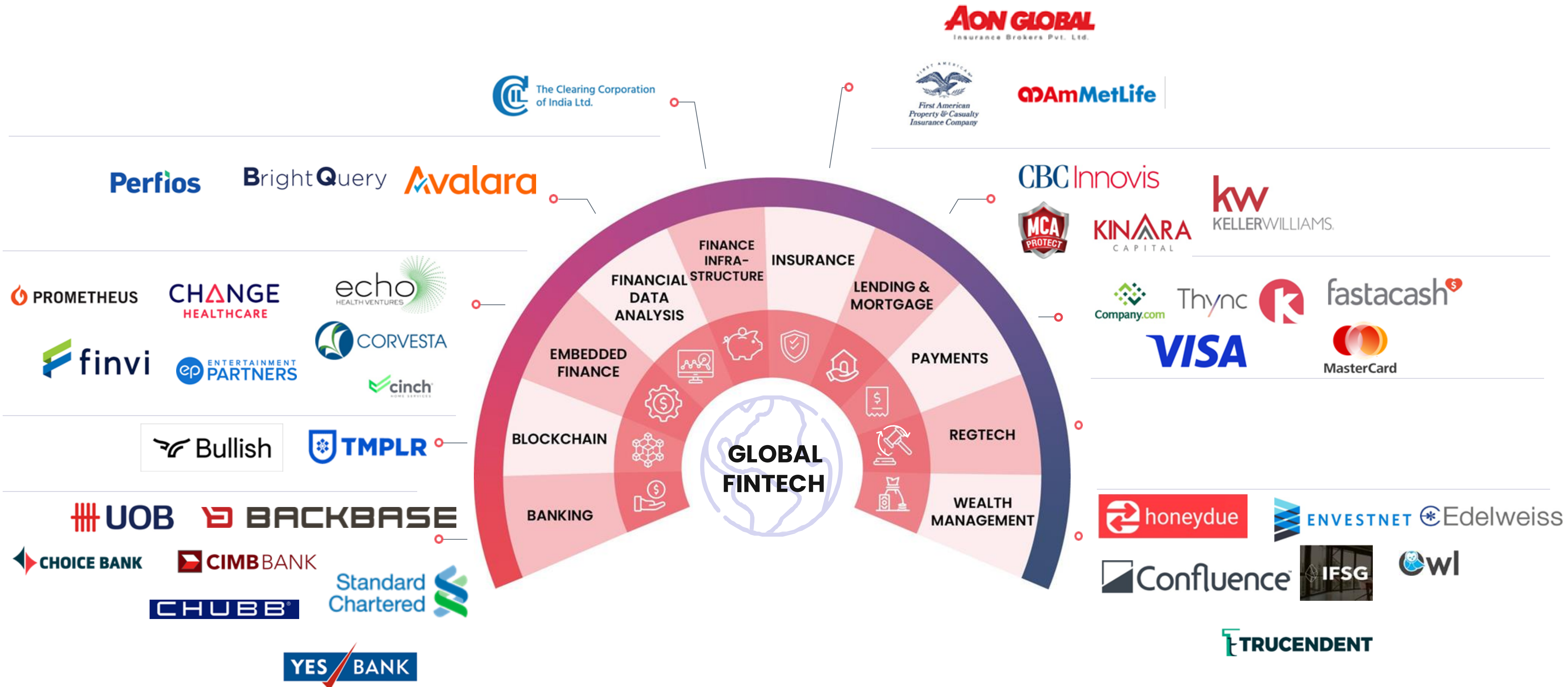
Marketplace lending & alternative underwriting platforms

Mortgage lending, digitization, and financial platforms

kw KELLERWILLIAMS.



BFSI Customers



Banking Customers



FinTech Landscape

Accion's Fintech Landscape includes, but not limited to, these pillars of financial inclusion...

Banking

- Retail Banking solutions
- Open Banking
- Digitization of operations / processes

Payments

- Integrations
- Mobile Solutions
- Digital POS
- Aggregators
- Digital Wallets
- Remittance
 - ◆ Digital Transfer
 - ◆ Money transfer through social media

Credit

- Credit Score
 - ◆ Experion
 - ◆ Equifax
 - ◆ TransUnion
- Digital Lending
- Credit Score Analysis
- LOS / LMS Integrations
- Digital Disbursements & Payments

Wealth Management

- Advisory Solutions
- Financial Planning
- Portfolio Management
- Estate Planning
- Retirement Planning
- Expenses Planning

Insurance

- B2B Insurance platform
- Digital Claims and Settlement
- Other InsurTech

Spectrum of Fintech Core Functions across all sub-verticals

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- Algorithmic trading
- Loan underwriting

Cloud Services

- Cloud consulting
- Cloud infrastructure
- Cloud engineering
- Cloud migration
- Cloud optimization & monitoring

Lending Lifecycle and Fintech Horizontals

LOAN / LENDING LIFE CYCLE & SOLUTION OFFERINGS								
Pre-Application	Application	Underwriting	Loan Approval	Disbursement	Servicing	Monitoring & Delinquency Mgt	Closure	Post-Closure
Marketing and Lead Gen	Submission	Credit Assessment	Offer	Notification	Payment Scheduling	Account Mgt	Notification	Credit Reporting
Initial Screening	Document Colleciton	Risk Analysis	Acceptance	Fund Transfer	Processing	Collection	Release of Docs	Feedback & Review
		Decision Making			Customer Support	Early Intervention	Final Payment	
						Default Mgt		
Open Banking, Aggregators & Integrations								
Document Upload & Verification								
Chatbots & Virtual Assistant								
RPA Solutions for Automation - follow ups, real-time updates, reminders, notifications, etc								
GRC - Security								
Identity Verification, Digital Identity, Biometric Authentication								
Fraud Detection & Other AI ML solutions								
Customer Data Analytics - social listening, social media, browsing history, purchase patterns, Demography, trends, sentiment analysis								
Cloud Computing								
Blockchain Tech								
User Experience & Usability - mobile applications, digital								

In response to these trends, banks are innovating and transforming



**Drive growth through personalization
and transforming distribution**

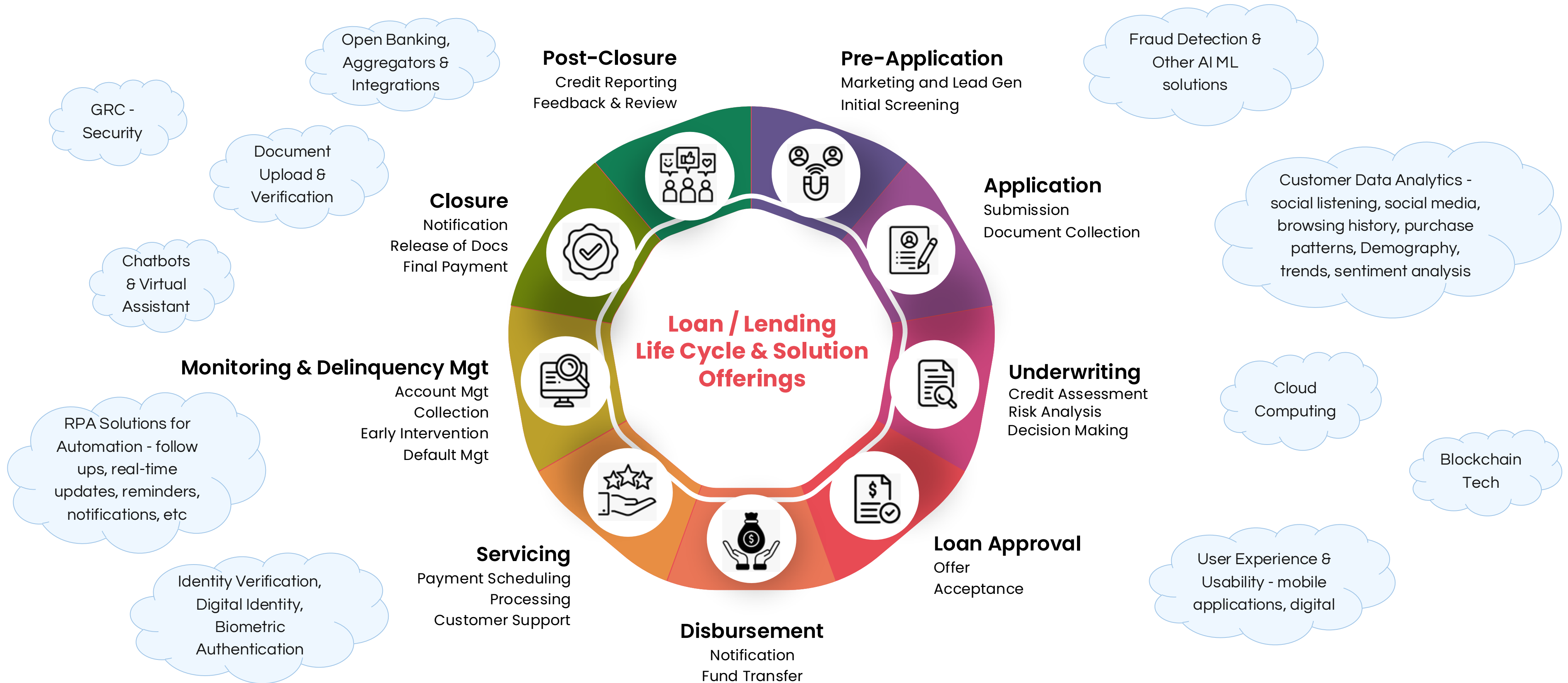


**Streamline and automate middle and
back office operations**

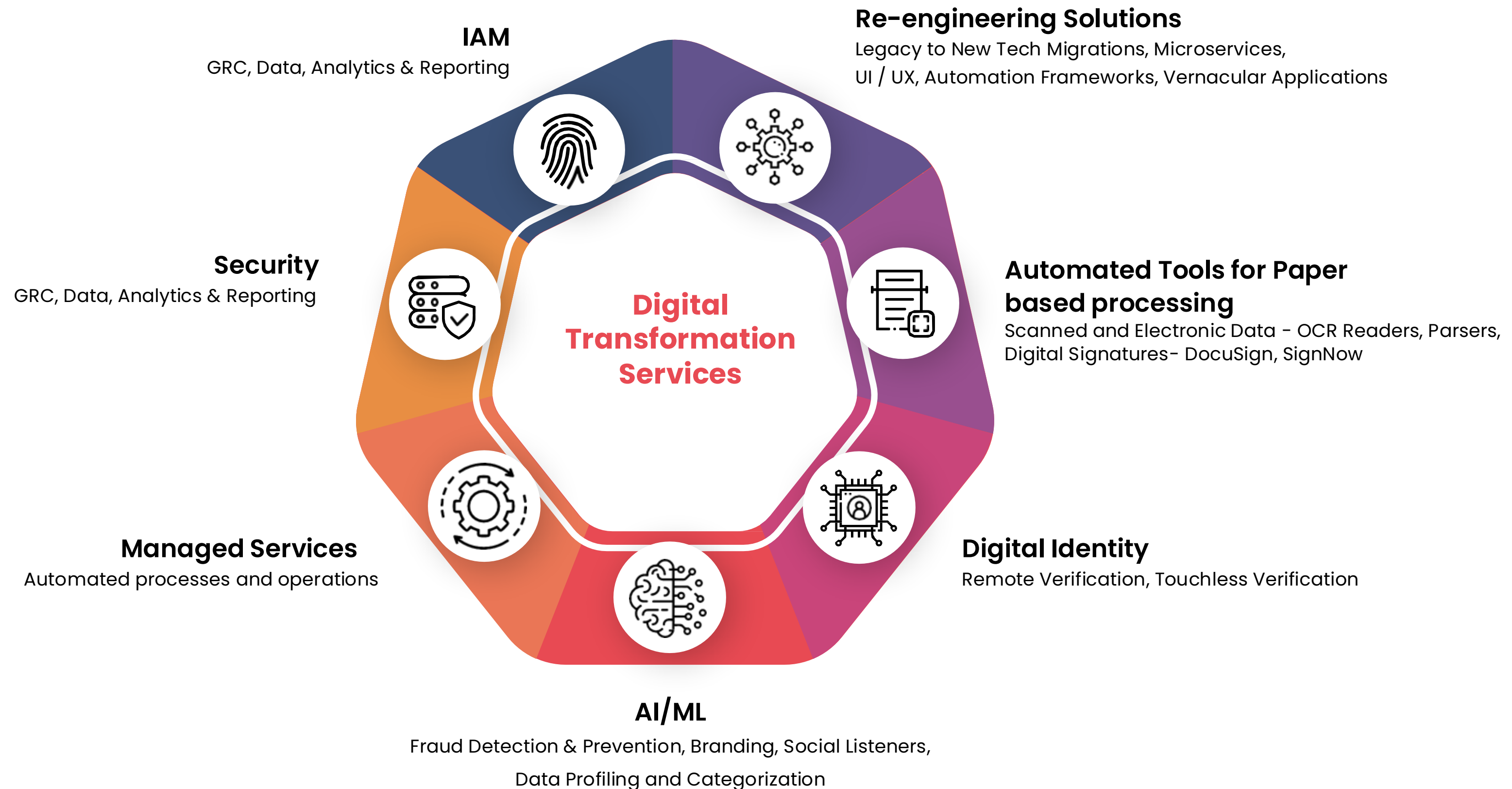


**Improve operational and financial risk
management**

Digital Transformation – across all Financial Pillars



Digital Transformation – across all Financial Pillars



Generative AI holds immense value and productivity gains for banking

\$200–340 B

value potential in banking

9–15%

increased productivity of the
banking industry's annual
operating profits



Productivity gains



**Customer
Service**

+30–45%
of current servicing costs



Marketing

+5–15%
of total marketing spend



**Software
engineering**

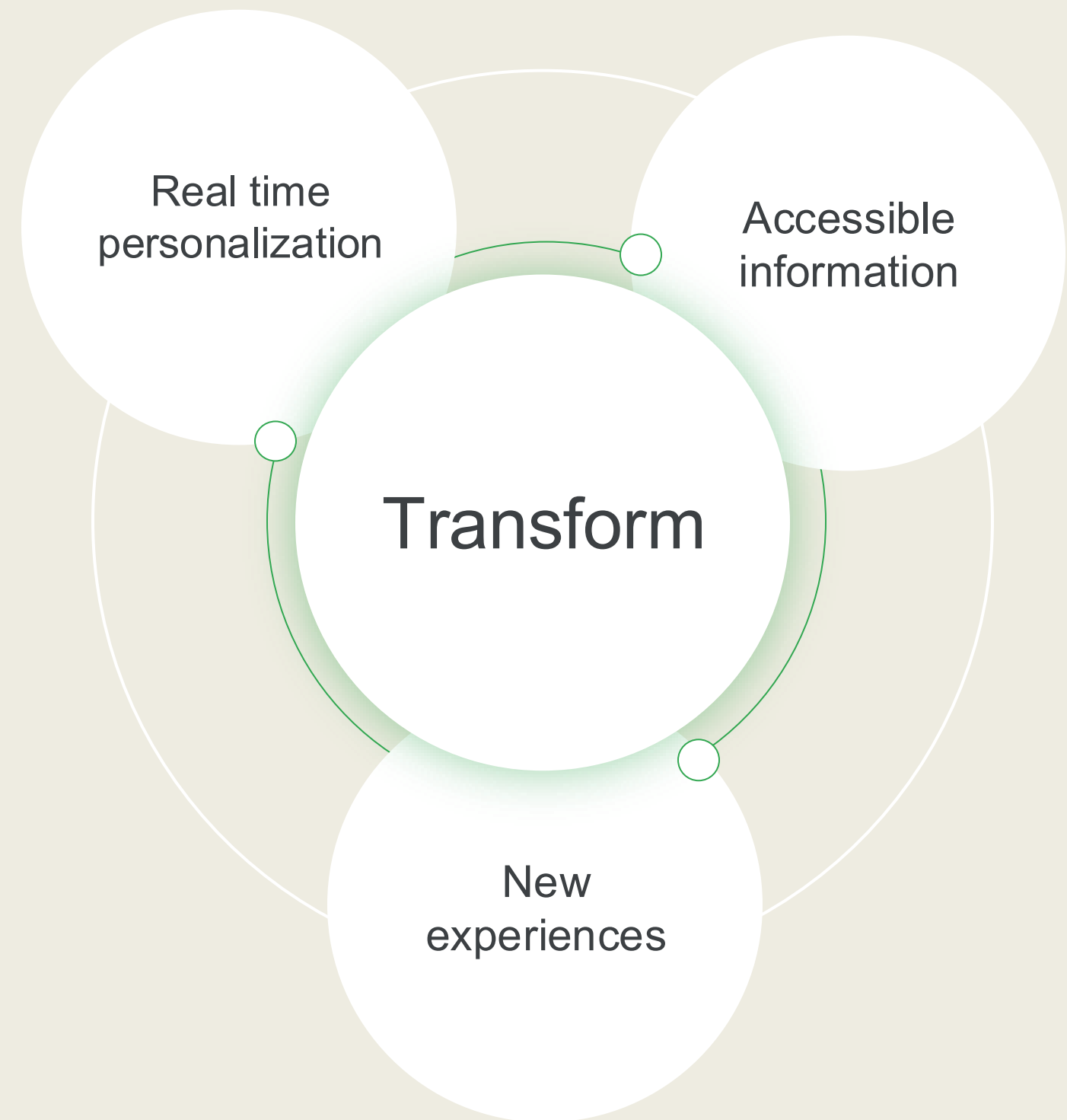
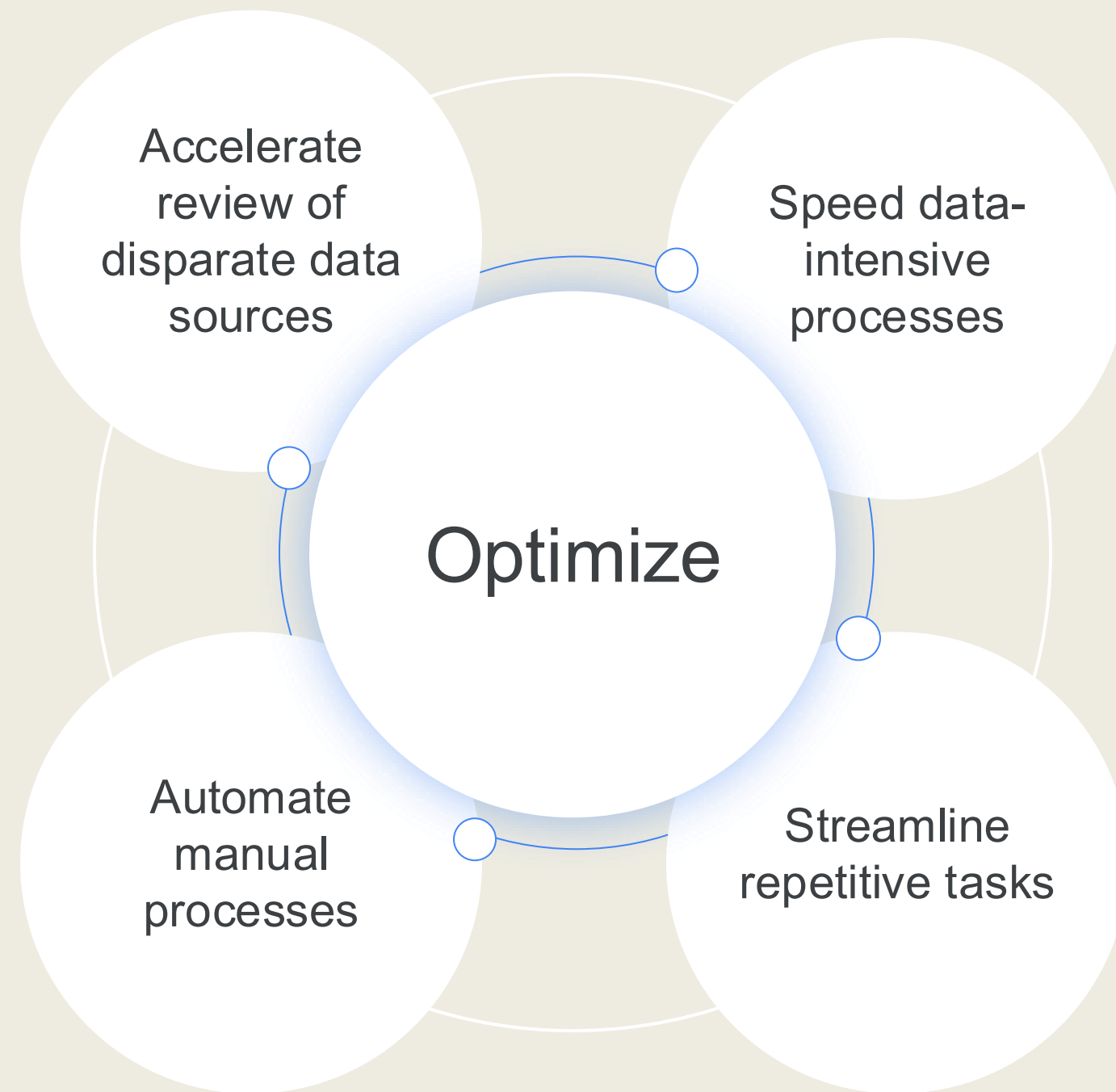
+20–45%
of current annual spending



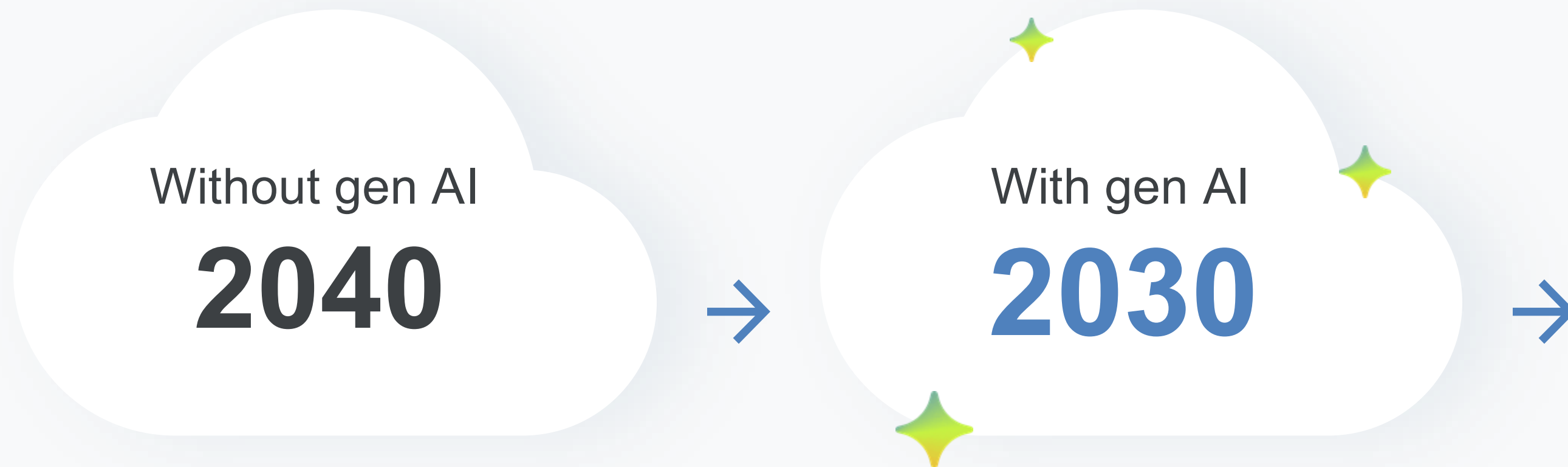
R&D

+10–15%
of overall R&D costs

Generative AI can be applied to re-shape process and experiences



The transformation is underway



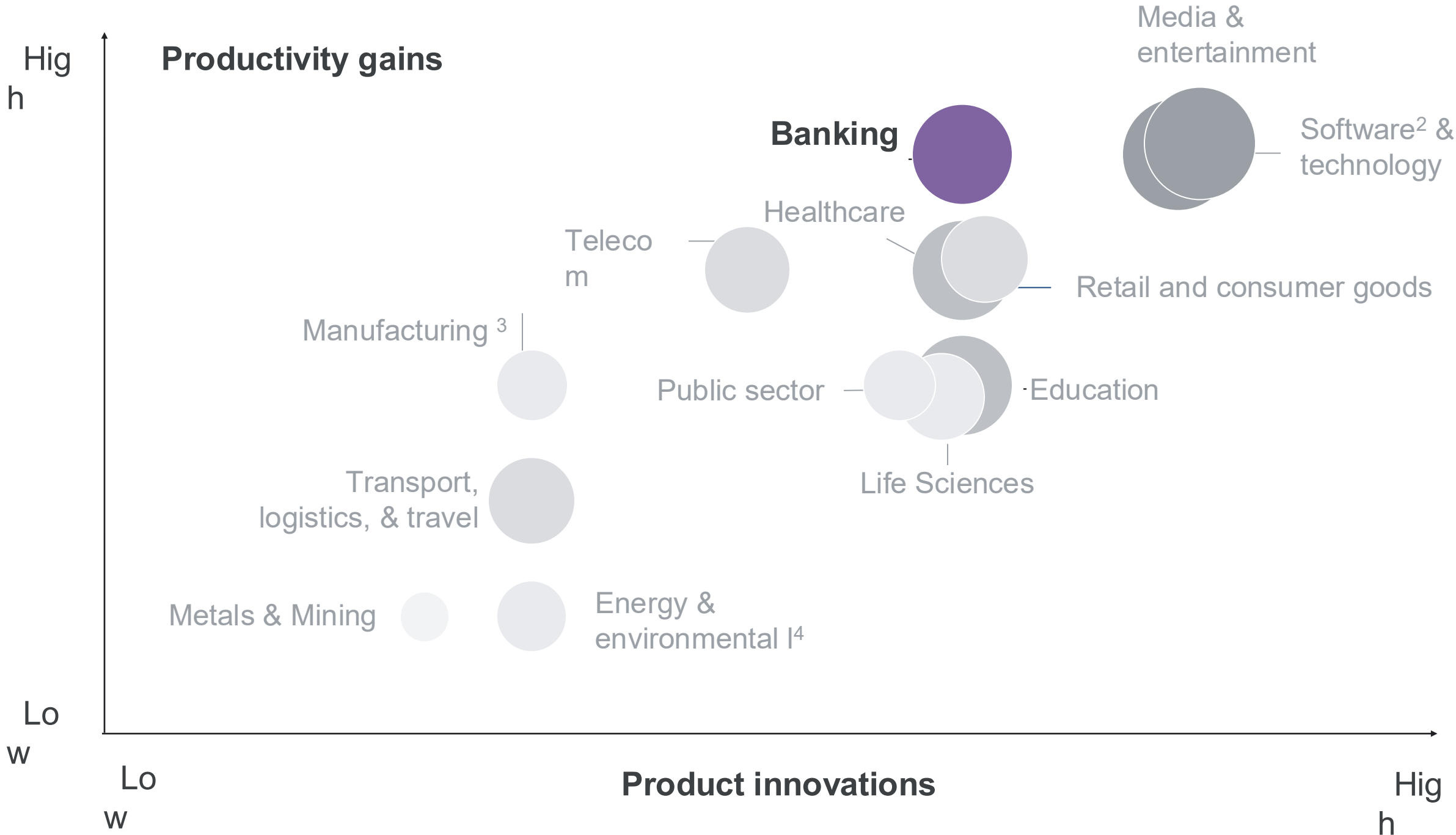
Gen AI has accelerated automation by 10 years with a projection of 50% of current tasks being automated by 2030.

More advanced countries will have a faster adoption curve due to financial pressures and competition.

Includes data from 47 countries (~80% of global employment); 2017 based on activity and occupation mix from 2016, GenAI scenario based on 2021 data; scenarios differ by tech automation potential, timelines, economic feasibility and tech diffusion rates
Source: McKinsey Global Institute: "The economic potential of generative AI: The next productivity frontier"

Generative AI will have a transformative impact in banking

Impact of gen AI across industries ¹

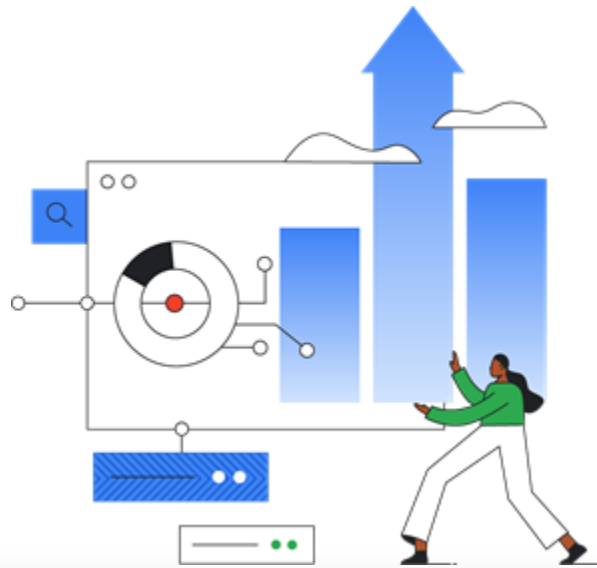


\$200–340 B

impact in the banking industry

1. For each industry, industry-specific software is included 2. Industry-agnostic software 3. Includes aerospace and defense, automotive and assembly, chemicals, semiconductors, basic materials 3. Includes auto retail. 4. Includes oil and gas, power. Source: McKinsey Global Institute: “The economic potential of generative AI: The next productivity frontier”

Accion Gen AI focus for Banking and Financial Services

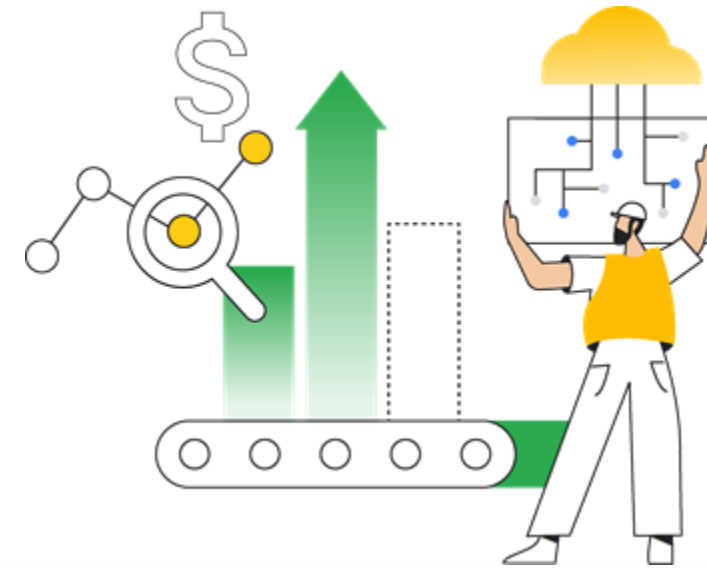


Reimagine distribution, financial advice and guidance

Bring your products to wherever customers are and create a better customer experience

Use cases

- Data distribution & monetization
- Personalize customer interactions
- Advanced marketing analytics
- Embedded finance / open banking



Automate middle and back office operations

Modernize technology, eliminate paper, and automate routine interactions

Use cases

- Automate document processes
- Time series anomaly detection
- Financial forecasting
- Improve call center efficiency



Improve risk prediction & transform management of financial data

Simplify reporting, better predict and manage risk

Use cases

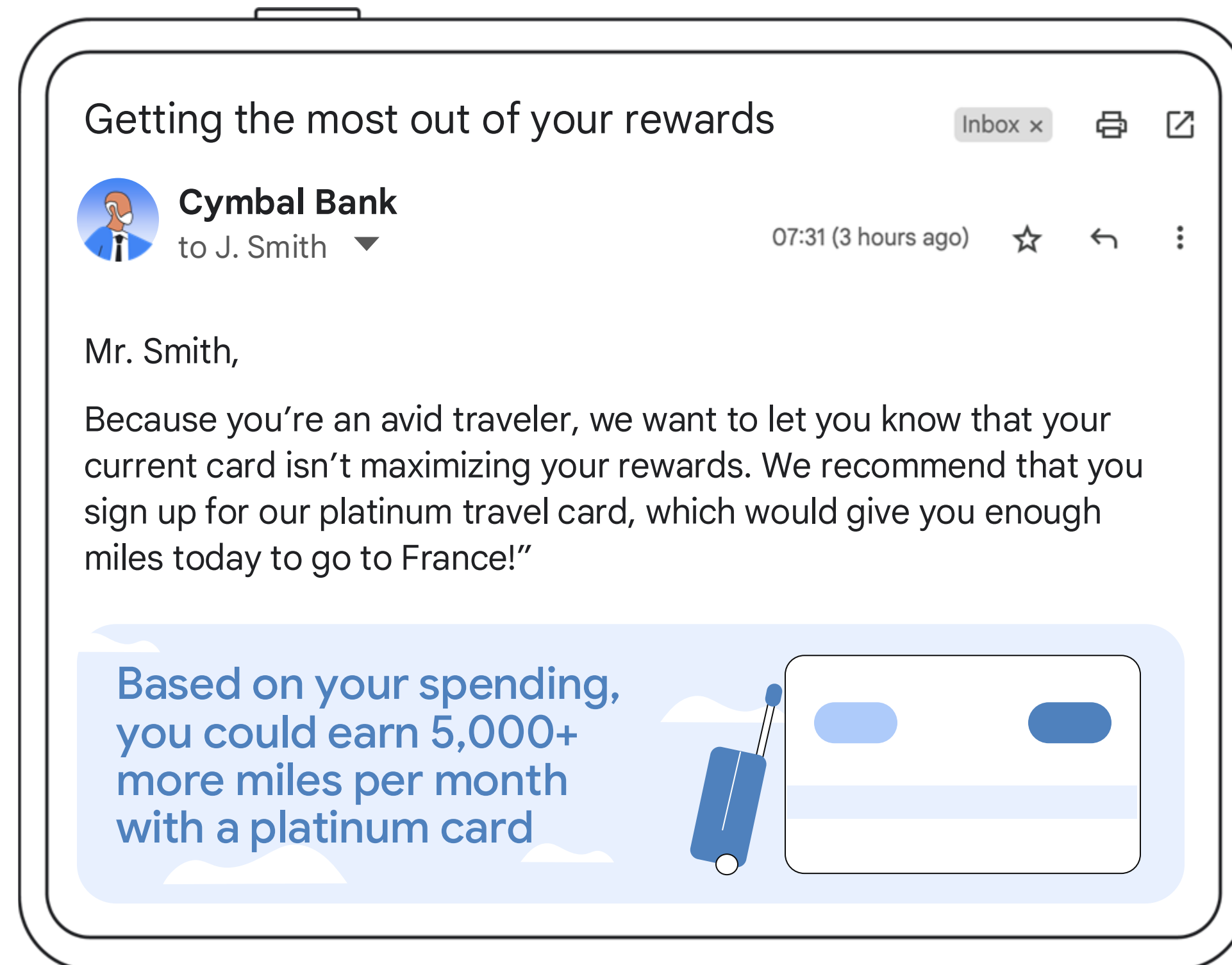
- Detect and prevent financial crime (fraud, AML, and more)
- Perform value-at-risk and 'what if' calculations
- Streamline regulatory reporting processes

Personalized financial recommendations

Example only

Improve cross-sell and retention strategies through one-to-one instead of one-to-many messaging.

Tailor financial product recommendations via conversational language that are hyper-personalized and reinforces a “you know me” experience.



Capital markets research

Example only

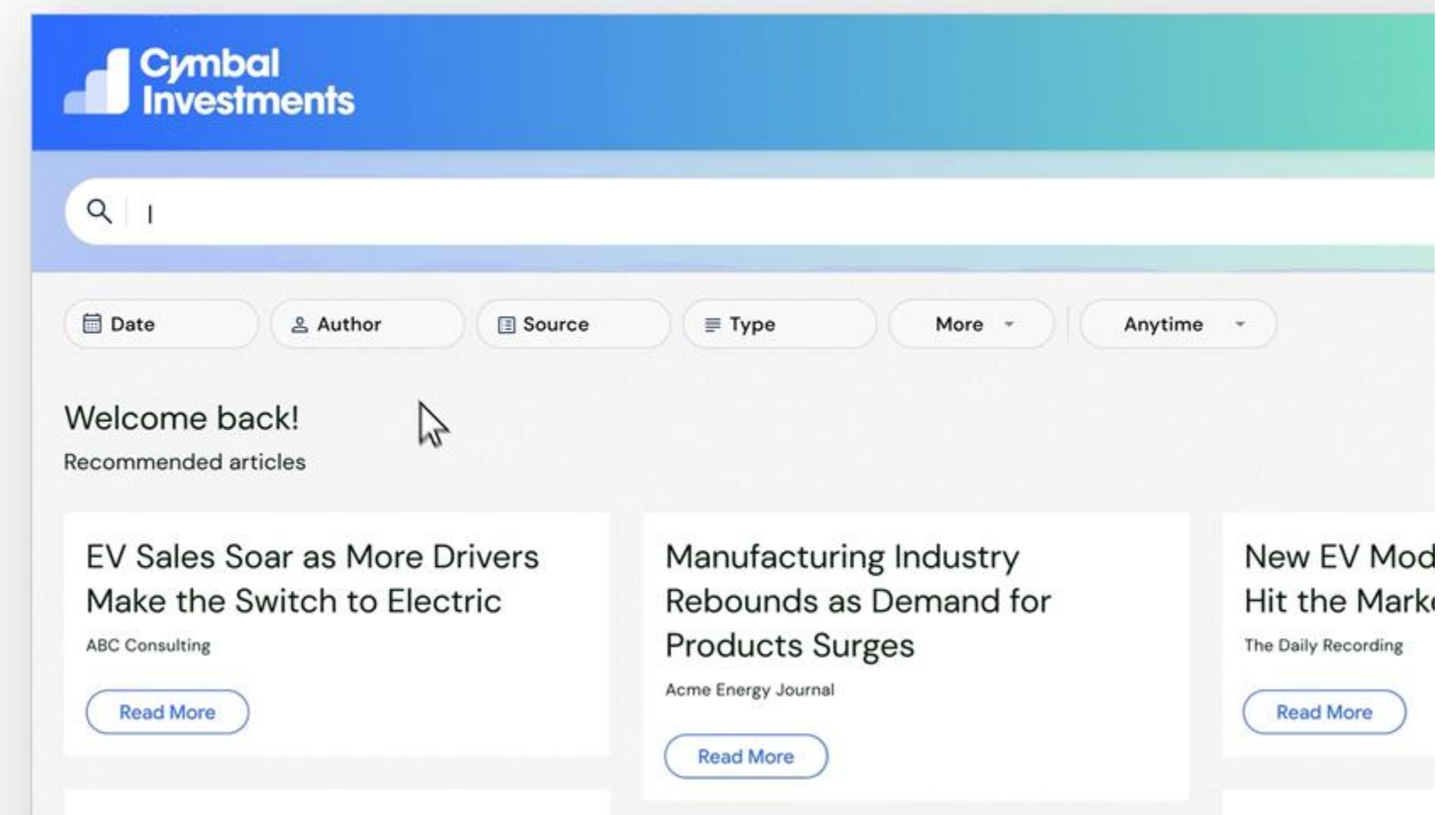
Generate intelligent summaries of relevant documents with sourcing provided, helping analysts focus their time on the most important information.

Example: Gen AI can explore topics with natural language, assist in sentiment analysis, and aggregate financial data

I need to assess the semiconductor industry



Investment manager



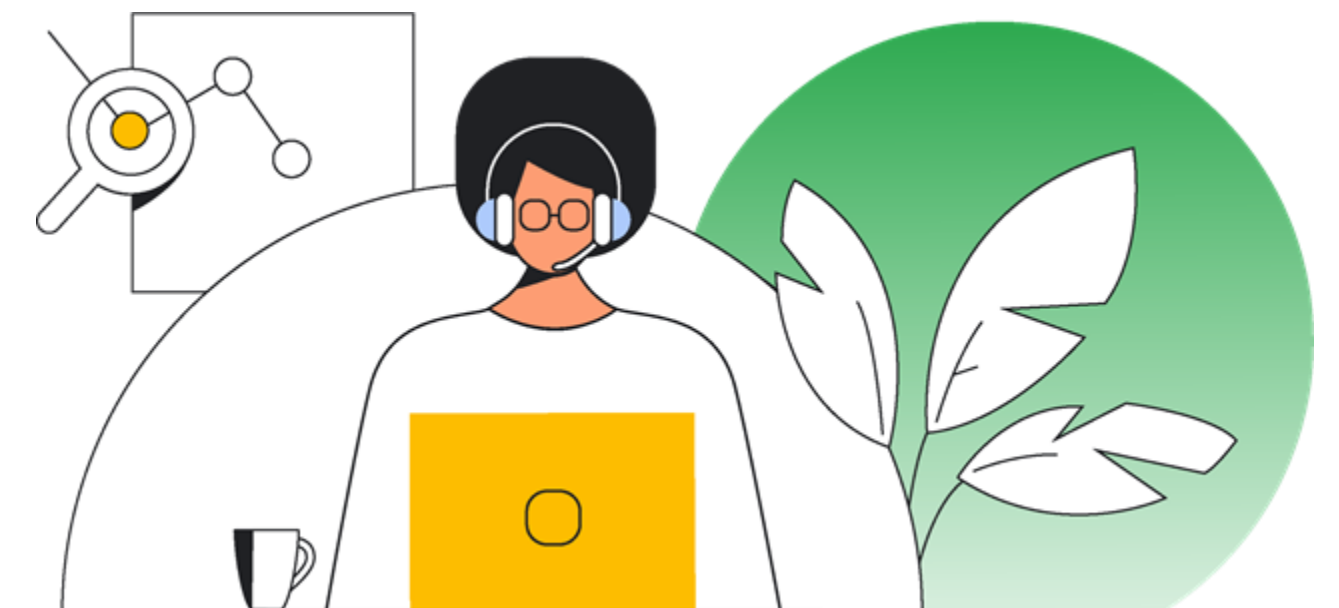
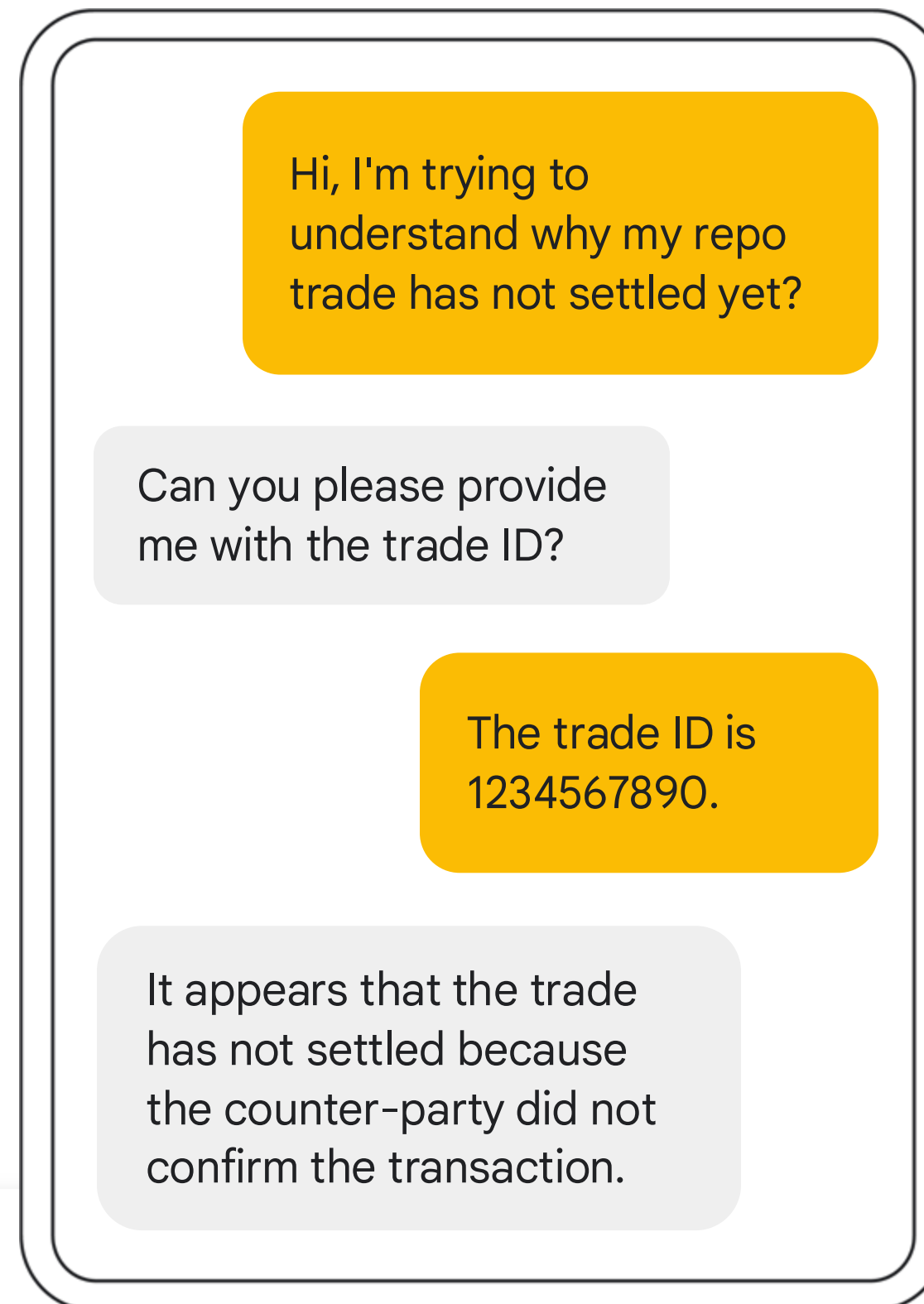
Summarized view of research from internal and external data sources

Enhanced virtual assistant

Example only

Improve back office productivity by helping to locate and summarize information as well as improve communication between internal groups and directly with customers.

Example: Using generative AI, market participants can interact with trade facilitators to better understand settlement failures and how to resolve them.

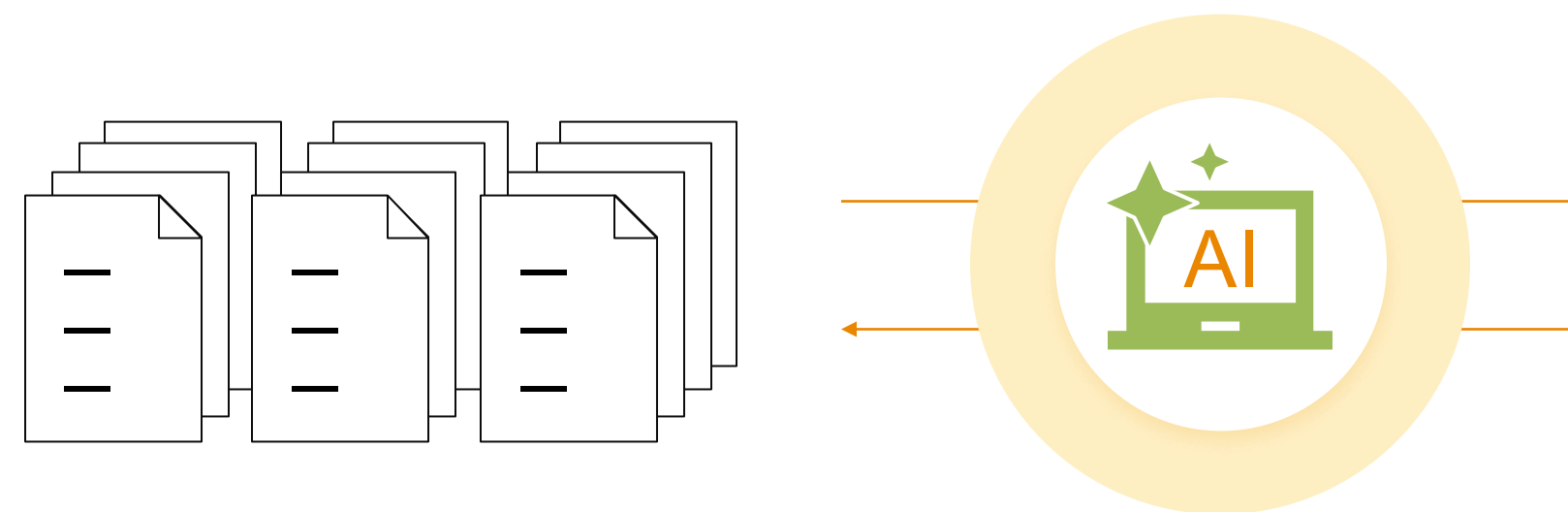


Document search and synthesis

Example only

Improve the ability to understand large document sets to help identify, summarize, and explain relationships to other documents.

Example: Using gen AI, a relationship manager could quickly identify relevant contract clauses that need to be updated and then generate tailored communications to notify the customer of the change.



Existing contracts

“Flag all customers with LIBOR in their contract and automatically send them updated T&Cs that alert them to the replacement of LIBOR”

[Dear customer]

We are writing to inform you about an important change to your contract.

The London Interbank Offered Rate (LIBOR) is a benchmark interest rate that is used to price many financial products, including loans, mortgages, and derivatives.

Your contract currently refers to LIBOR. As a result of the LIBOR phase-out, we are updating your contract to reference a new benchmark interest rate, the Secured Overnight Financing Rate (SOFR).

Regulatory code change consultant (developer efficiency)

Example only

Help developers understand the underlying regulatory or business changes that will require them to change code, and assist in automating coding changes.

Example: Gen AI can summarize a relevant section of the Basel III framework to help a developer understand the section’s intent, identify the related parts of a product document and code repository.

Can you tell me the mathematical formula to calculate capital requirements for exposures that are not in default, are secured, or partly secured by residential mortgages?

Regulatory Companion

Ask a question:

Can you tell me the mathematical formula to calculate capital requirements

Send

Need some examples?

Basel III example questions

Pursuing Generative AI transformation



Identify & prioritize use cases

Evaluate business needs along with generative & traditional AI capabilities



Data first strategy

Bring together disjointed data sets and strong governance to lay a solid AI foundation



Organizational readiness

Assess your organization's current status along with costs & benefits of AI solutions



Test and scale

Not all AI is built equal. POC often and fail fast to identify what works for your business.

Case Study | A Multi-Platform Digital Banking solution

Customer Profile

A commercial bank created to meet the banking needs of the local community. The company's banking services include savings deposits, mortgages, personal loans and internet banking, enabling customers to avail of retail banking services locally.

Challenges/Requirement

- Implementing Automated Azure Landing Zone
- To implement RPA/Power Automate workstream

- To implement Data Analytics – Visualizing and Automating Data Platform for ERM

Solution Delivered

- Implemented and automated Azure Landing Zone
 - Deployed web UI and implemented API based integration which helped in reducing the manual effort of doing multiple entries
- Implemented RPA workstreams
 - Implemented Power Automate based automation in HR Operation/Data.
- Implemented Data Analytics
 - Automated identification of fake customers, addresses and information provided to identify the defaults and fake customer entries on FinTech platform

Outcomes/ Benefits

- Implemented and automated Azure Landing Zone
 - Helped in Cost Reduction & Process optimization/automation
- Implemented RPA workstreams
 - Process Improvement and quick risk identification
- Implemented of Data Analytics
 - Reduction in manual effort – Automation of Monthly/Quarterly/Yearly/Ad-Hoc Reports in risk area, data quality checks are all automated which was earlier manual effort and time consuming

Cloud Infrastructure

Microsoft Azure

Case Study | NextGen Wealth Management and Banking App

Customer Profile

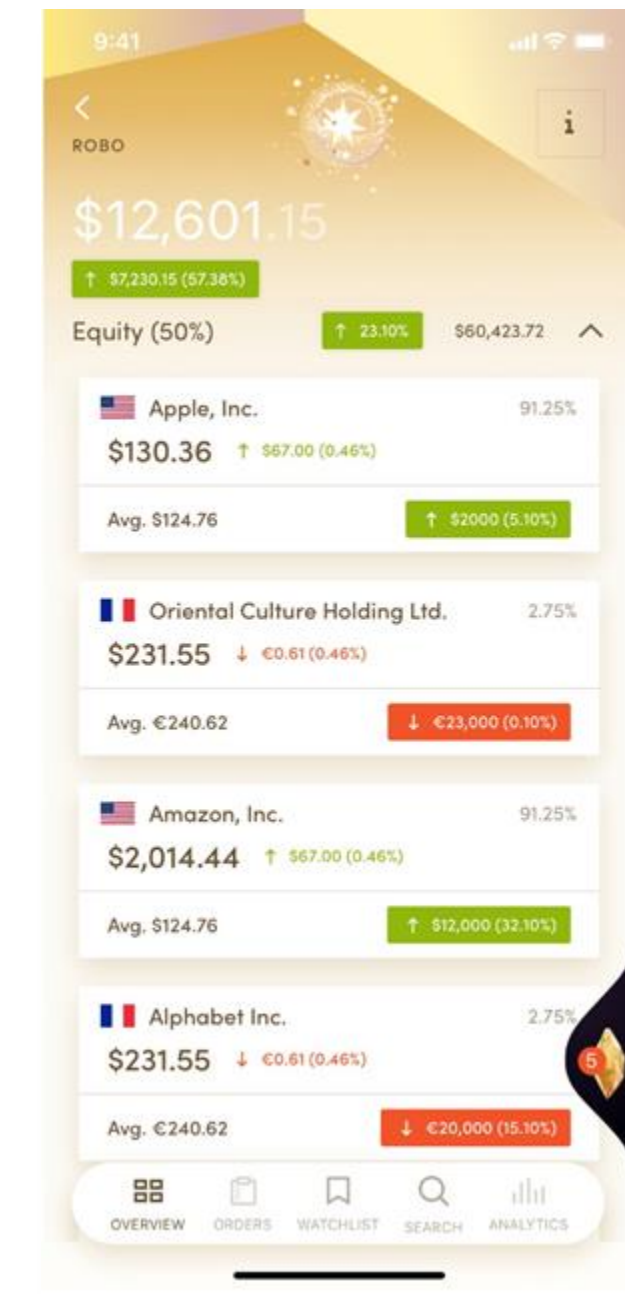
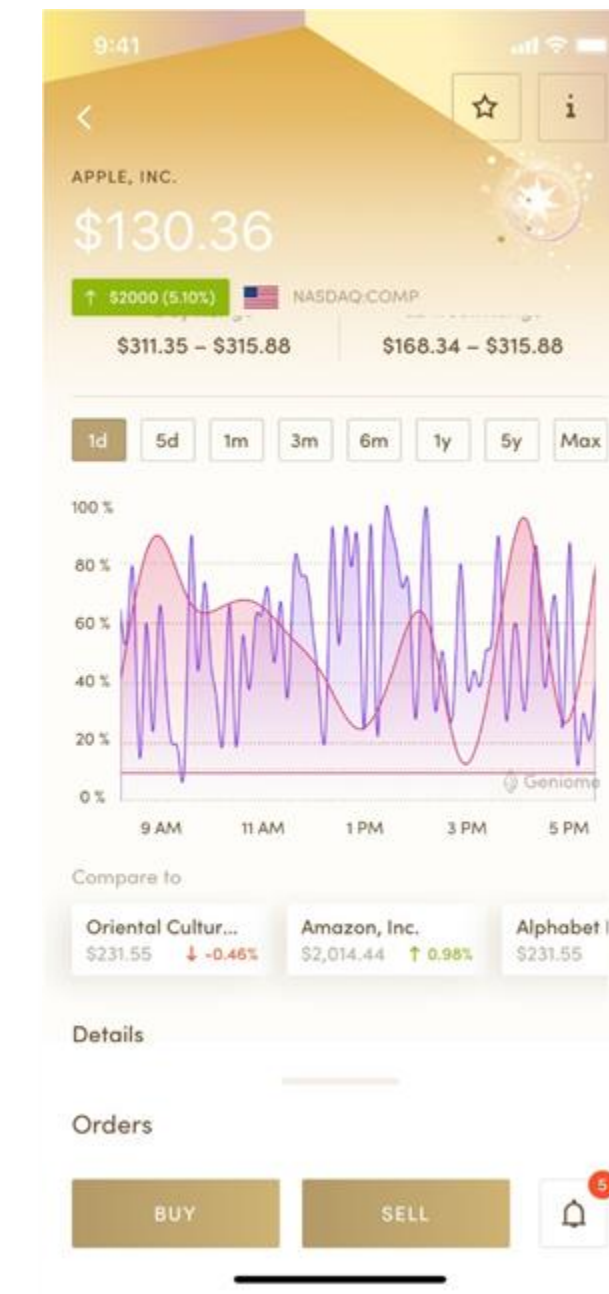
Bank provides a digital modernization approach to banking and wealth management for next-gen users with best-in-class client experiences and a groundbreaking approach to wealth management.

Challenges/Requirement

- Mobile and WEB App with fully loaded security features and advanced UX platform

Solution Delivered

- Front end development of Hybrid Mobile apps for iOS and Android and Web
- Key digital features include: mobile onboarding, Biometric and Face recognition, digital assets trading, AI enabled wealth management
- Key security features include:
 - Authentication Profile – 4 finger Touchless ID
 - Login by FaceID / TouchID
 - Manage / Register Devices – setup of primary device & block device
 - Document Verification – ID, Address verification



User Interface

ReactNative, Unity3D

Databases & Indexing Engines

MongoDBA

App Services & Integration

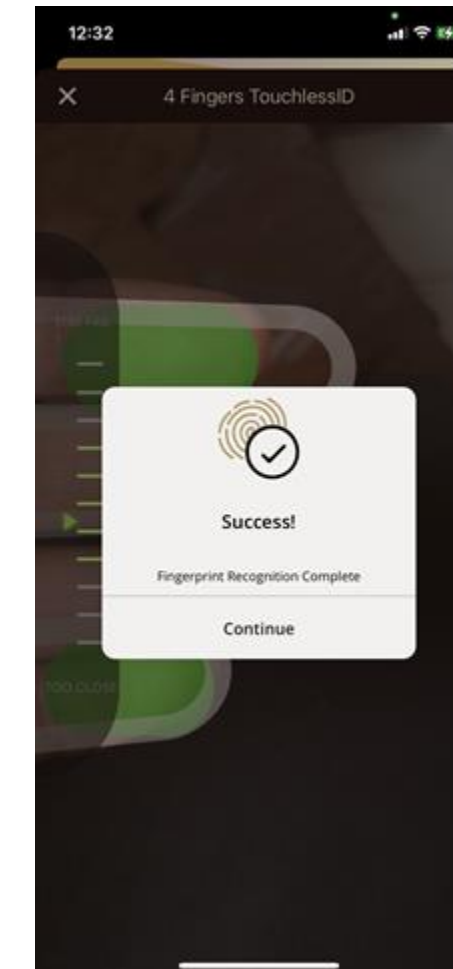
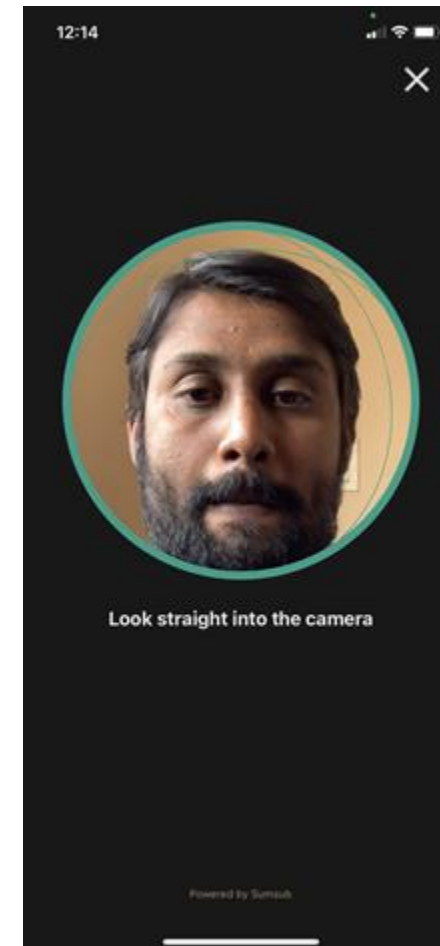
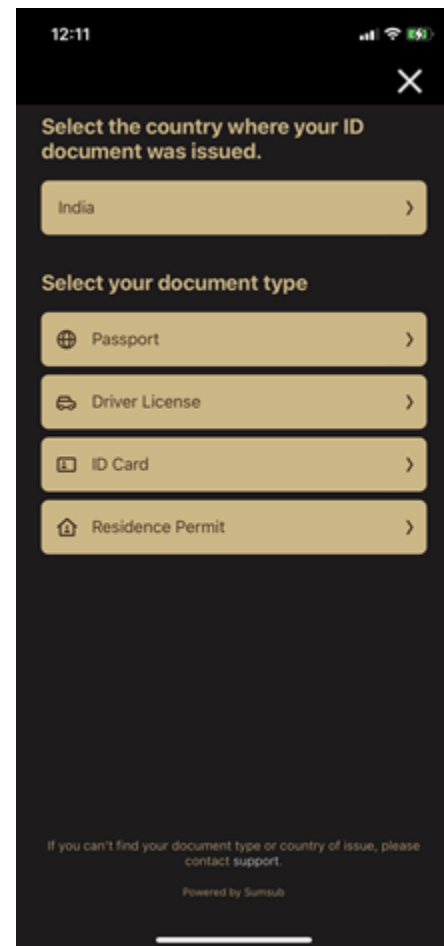
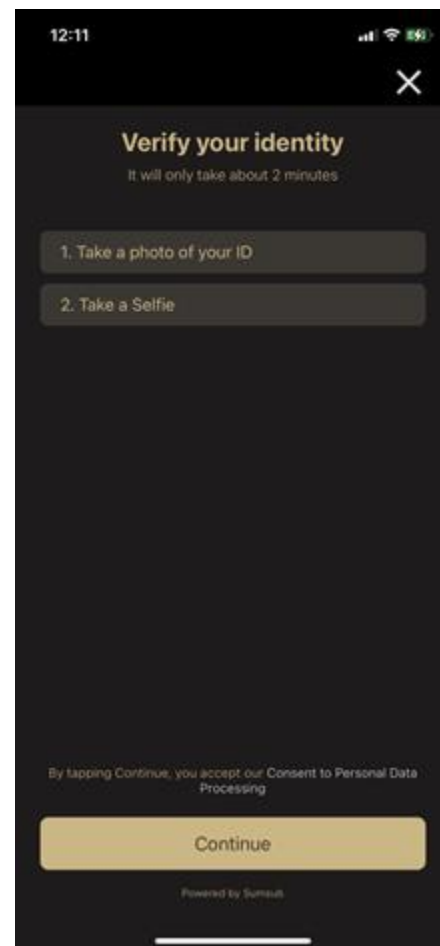
Kong API Gateway, NewGen, Finacle, SIX, CleverTap

Cloud Infrastructure

AWS, Kafka

Case Study

NextGen Wealth Management and Banking App (Cont'd..)



Case Study | Facilitating innovation in digital payments & platforms

Customer Profile

- Technology company in the global payments industry.
- Operates the world's fastest payments processing network, connecting consumers, financial institutions, merchants, governments and businesses in more than 210 countries and territories.
- Its facility in Pune alongside Vadodara represents the company's largest Tech Hub outside of the US to drive the development of cutting-edge payment technologies aimed at enabling a cashless world.

Challenges/Requirement

- Set up offshore team outside US for building solutions facilitating Digital innovation and digital payments platforms
- Shortage of skilled resources in the payments & platform space
- Quick ramp up of resources at regular intervals

Solution Delivered

- Provided resources including Business Analysts, Web UI developers, Backend developers, Testers, System Analyst, Engineering Services Members, Scrum Master, Team Lead , & Project Managers to work in a cutting edge, innovative environment of digital platforms & payments
- Core Activities undertaken:
 - Merchant Registration and setup
 - Add Developer Accounts to Merchant Profile
 - Developer Registration and Request Sandbox Creations
 - Design Services integration
 - Review and Approve
 - Access Sandbox Credentials
 - Production Migration

User Interface

JSF, Primefaces, AngularJS, HTML5, CSS3, jQuery, Android UI, iOS UI

App Services & Integration

Java, J2EE, JSF, Spring, Hibernate, Web service

Databases & Indexing Engines

Oracle, MySQL, SQL Server

Cloud Infrastructure

N/A

DevOps

Selenium, SOAP UI, JBehave, Dynatrace, Splunk, Bamboo

Case Study | Facilitating innovation in digital payments & platforms (Cont'd..)

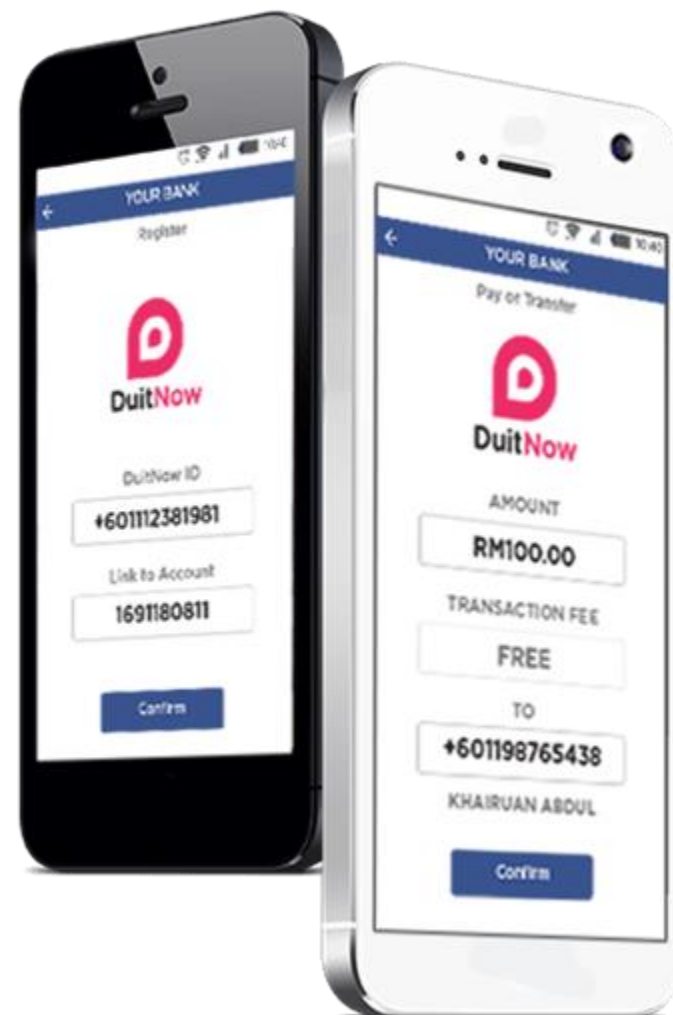


The partnership with Accionlabs helps the client in setting up an innovative digital infrastructure platform to facilitate the development of cutting-edge payment technologies aimed at enabling a cashless world.

Case Study | Real-time Retail Payments Platform (RPP)

Customer Profile

- MyClear RPP will introduce instant payments and instant collections for all bank customers to make e-Payments as quick and frictionless as cash



Solution Delivered

- Entire new screens for DuitNow transfer(Input Page, Confirmation Page and Acknowledgement Page) and NAD maintenance(Registration, De-registration and update account).
- Online service for NAD enquiry and NAD Update to Paynet system.
- Integration with ESB, SIBS, CMS, Cardlink and FA team.
- Add Favourite logic and screen for DuitNow Transfer.
- Transaction Type and Limit setup
- DuitNow new online service and integration with respective systems.
- New Paynet error message maintenance.
- New shortcut login for DuitNow at Mobile app.
- SMS TAC message changes.
- CT- Account enquiry and transaction online services to Paynet.
- Integrating with recon system.
- Change Requests and other enhancements to the application.

By partnering with Accionlabs, the client is able to transform Malaysia's epayment infrastructure, which provides real-time payment services

User Interface

Angular 2, MFP, Javascript, SASS, jQuery, Bootstrap

App Services & Integration

Spring, Hibernate, DB2, Gradle

Databases & Indexing Engines

DB2

Cloud Infrastructure

N/A

DevOps

N/A

Case Study | Personal Financial Planning App for Couples

Customer Profile

- Small team of passionate developers , on a mission to outsmart money, together
- Honeydue is a personal finance app for couples which helps them in tracking bills, bank account balances, and spending together.

Challenges/Requirement

- Reliance on spreadsheets by couples to manage/share their finance activity
- Constant need for proactively checking upcoming bills
- Multiple Bank accounts– Multiple statements
- Messy bank statements
- Build native mobile apps for the iOS & Android platform

Solution Delivered

- Front end development of native iOS & Android app with 5 core modules for 2 user types: User and Partner
- Provide options to choose how much you share with your partner
- Lists all transaction done by you/partner
- See all of your bank account balances in one place, neatly organized.
- Automatic categorization of all your spending in a graphical display or chart
- Reminds you when it's time to pay your bills through notifications
- Get offers based on different categories of products – credit cards, savings investments, loans & insurance..
- Leveraged MPAndroidChart library for visualization in Android & Charts in iOS
- Trello for creating tasks and managing project activities

User Interface
Swift 3.0, Objective-C

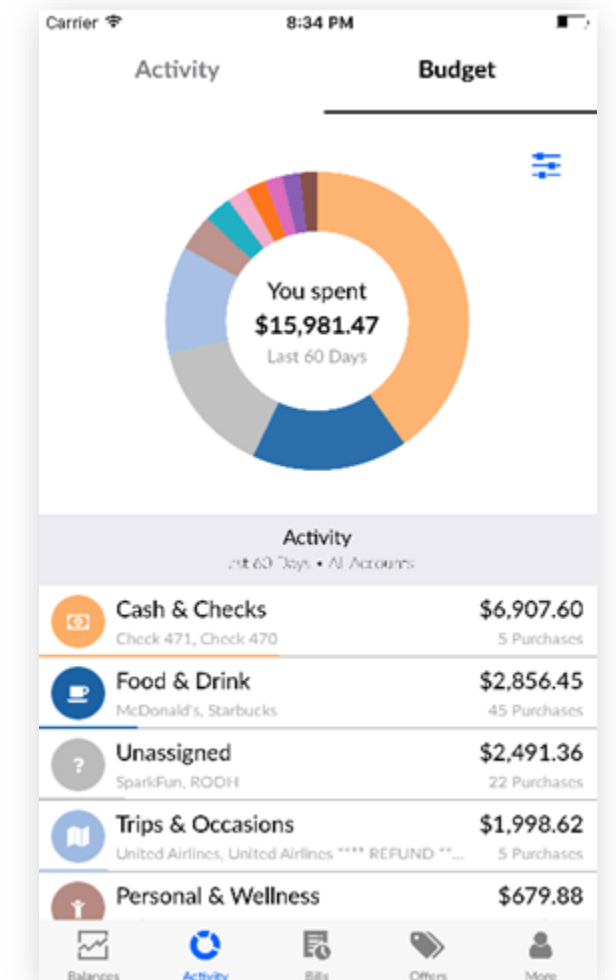
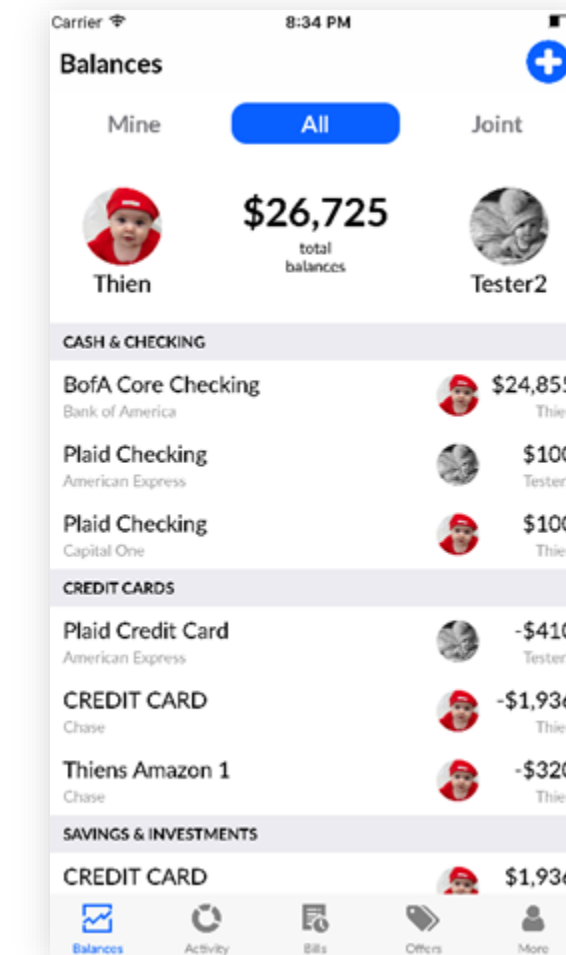
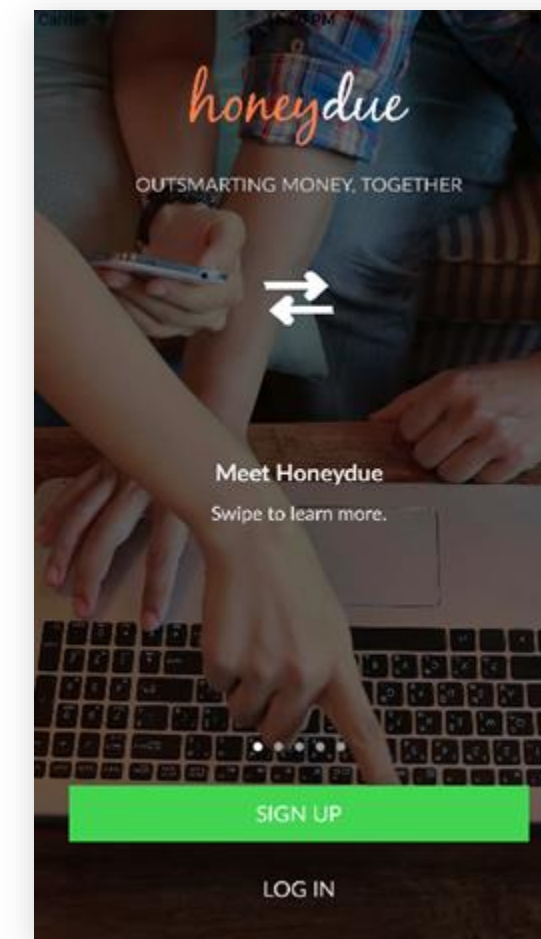
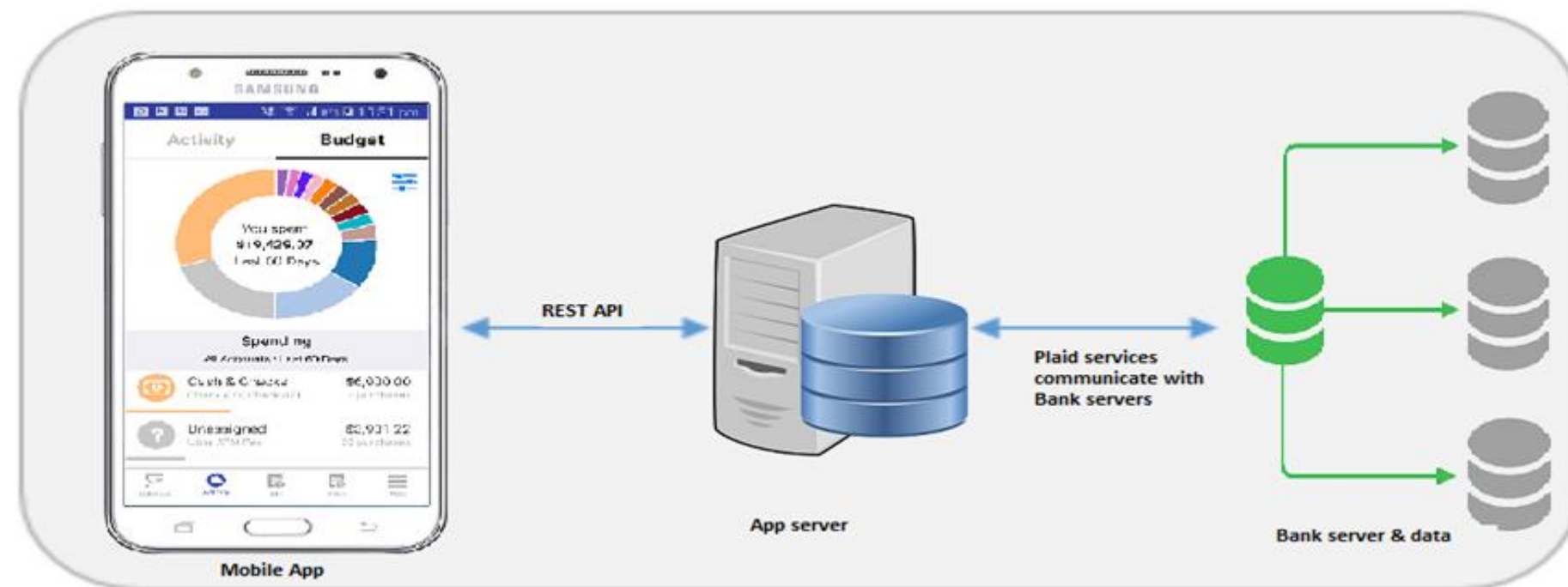
App Services & Integration
Mobile (iOS and Android)

Databases & Indexing Engines
N/A

Cloud Infrastructure
N/A

DevOps
Github, XCode, Trello

Case Study | Personal Financial Planning App for Couples (Cont'd..)



By partnering with Accion Labs, the client develops a personal financing app which helps couples in jointly tracking bills, bank account balances, and

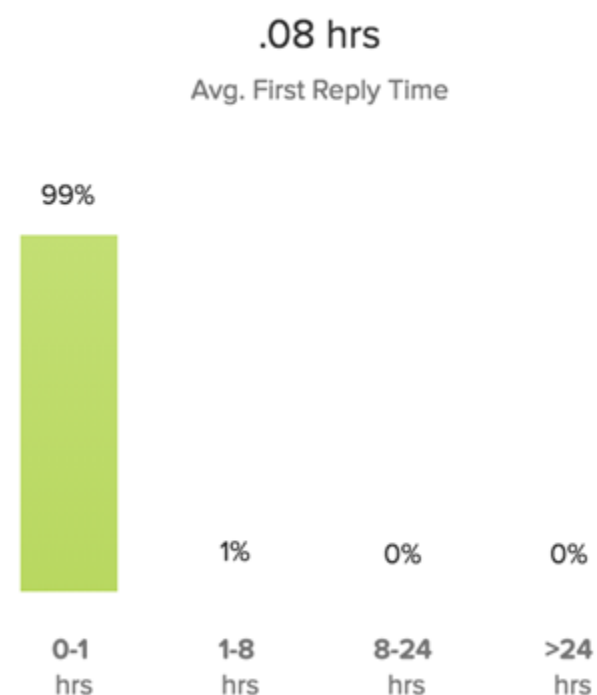
Case Study | Product Support for Digital Banking Platform

Customer Profile

- Leading provider of Omni-Channel Digital Banking Platform in banking and financial sector.
- Their product unifies functionality from traditional core systems and new fintech capabilities into a seamless digital customer experience, drastically improving any customer channel.

Challenges/Requirement

- Need for a global product support team to service clients in various geographies across the world.
- Set up product support teams in multiple geographies to utilize global clock.
- Adhere to stringent SLA for support tickets.



Solution Delivered

- Constitution of a 6-member team: 1 Lead, 5 Sr. Software Engineers (Full Stack Developers)
- Technical analysis of issues
- Determining root causes of issues
- Deliver hotfixes, patches, and bug fixes
- Engineer code workarounds for mission critical issues.
- Providing on-demand active support during production release.
- Proposed 24x7 support to meet the evolving needs of the client
- with guaranteed response times.
- Geographically dispersed team to provide 24x7 support (3 team members from Kuala Lumpur, Malaysia and 4 from India)

By partnering with Accionlabs, the client is able to maintain the First response time (FRT) SLAs to less than 5 mins.

User Interface

HTML/HTML5, JS, CSS, AngularJS, D3JS

App Services & Integration

Node.js

Databases & Indexing Engines

PostgreSQL, MongoDB

Cloud Infrastructure

AWS

DevOps

GitHub, Jenkins

Case Study | B2B Insurance Platform for a leading Insurance Provider

Customer Profile

- One of the leading providers of Insurance, Reinsurance broking and Risk Management services in the Indian subcontinent
- 40 plus years of a rich legacy in claims services, risk management and broking services
- Headquartered in Mumbai with over 400 + highly skilled and experienced professionals across 11 locations in India
- Over 2000 clients and servicing over 800 MNC clients spread across India.

Challenges/Requirement

- Build capabilities from scratch after demerger from parent company
- Transition to a digital platform from existing process which stores huge volume of business & customer data in unstructured formats: excel sheets, word documents, & PDFs
- Develop dashboards with rich interactive visualizations in the form of graphs & reports
- Build a digitised solution for increased scalability & seamless corporate integration
- Develop web & mobile solutions with both end-user & admin level access privileges

Solution Delivered

- Building a well-balanced team with Frontend, Backend, BA, & QA experts under EDC model
- Microservices based architecture for more scalability & flexibility
- 2-week sprint cycle with team spread across 5 distributed geographical locations
- Development of REST API's for seamless B2B platform integration
- Developed Interactive visualization through graphs & reports for demographics & claims related data pertaining to claims status, claims filed, claims lost, claims ratio, rejected claims etc.
- Leverage MariaDB towards OLTP & MongoDB for archiving data & analytics
- Issue tracking through Redmine & automated deployment through Jenkins

User Interface

AngularJS, HTML5,
Bootstrap, JQuery, CSS3

App Services & Integration

NodeJS

Databases & Indexing Engines

MariaDB, MongoDB

Cloud Infrastructure

Public Cloud

DevOps

GitHub, Jenkins,
Redmine

Case Study | B2B Insurance Platform for a leading Insurance Provider (Cont'd..)



By partnering with Accionlabs, the client digitizes its insurance operations through a web & app-based platform for its corporate clients—resulting in improved process & cost efficiencies, and a greatly enhanced customer experience.

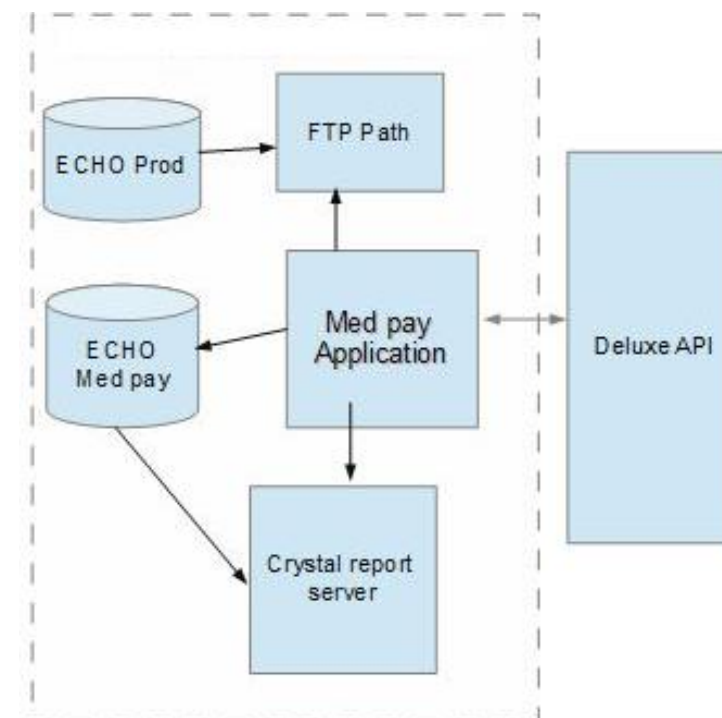
Case Study | .NET based automation tool for processing healthcare payments

Customer Profile

- Leading provider of electronic healthcare payment solutions in the US connecting payers, healthcare providers and members (patients)
- Processes more than 60 million payment transactions and pays over \$16 billion annually to providers and members through the premier plan payers in the country.

Challenges/Requirement

- Manual paper based process was time consuming & error prone, leading to inordinate transaction delays, taking anywhere between 2-3 days
- Need for an automated tool to perform the same operation with less time and quality
- Lack of any proper documentation
- Troubleshooting issues due to non-maintenance of any activity logs



Solution Delivered

- Constitution of 7-member team:
 - 1 Lead, 1 Scrum Master, 1 Senior Developer, 3 Junior Developer, 1 QA Lead and 1 QA Junior
- Agile Scrum development methodology
- Development of a native .NET app which imports data in required form and sends it to a 3rd party player dealing in e-checks, virtual cards, & ACH enrolment.
- Interfacing .NET application to the 3rd party tool via a Web API (Nancy) framework
- Implementation of automation tool significantly reduces transaction processing time from 2 days to 5 minutes.

By partnering with Accionlabs, the client develops an automation tool which directly takes inputs from a particular source and imports data at various locations with different business functionalities saving significant amount of time.

User Interface
N/A

App Services & Integration
Web API, Native.NET

Databases & Indexing Engines
SQL Server 2016

Cloud Infrastructure
N/A

DevOps
TFS, TestRail

Case Study | Admin Portal to Unify platform users for Fintech organization

Customer Profile

- Financial advisory technology solutions to drive better financial outcomes and make financial wellness a reality for more people.
- Products aim to provide investment, portfolio and wealth management solutions to the end customers across various platforms.

Challenges/Requirement

- An ENV partner/customer, when using multiple ENV platforms, requires to work with multiple platforms to gather & define users/access management requirement - No single point of management for customer identity to ENV network.
- Every ENV platform provides different user/access authentication & SSO methods & gateways for the same user accessing from Mobile, Desktop, and API.
- The requirement was for an ENV partner/customer, when using one or multiple ENV platforms, can work with a single point of management to define user/access requirements to the ENV network.

Solution Delivered

- Constitution of 14-member team:
 - 1 Technical Manager, 1 BA SM, 3 UI & 4 BE developers, 4 Automation QA, 1 Devops engg.
- Agile Scrum development methodology
- Development of a Web Admin Portal UI with OKTA as IAM provider. The OKTA provides the authentication of users from Multiple platforms and supports the SSO features through JWT token.
- Implementation of QA automation framework with Cypress tool.
- QA API and UI automation significantly improves the real time onboarding of customers without much hassles.

User Interface

React JS, Storybook components, HTML, CSS

App Services & Integration

Java Spring boot, Microservices, OKTA IAM

Databases & Indexing Engines

AWS DynamoDB, S3

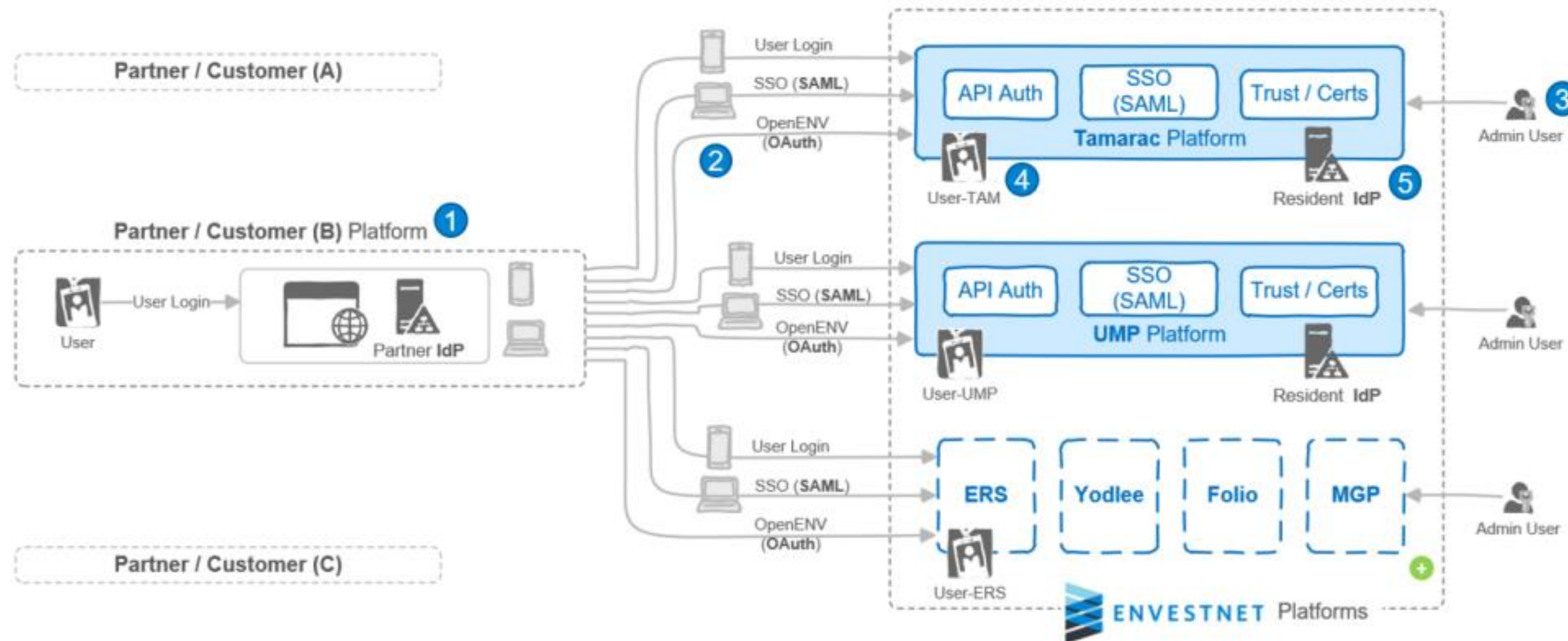
Cloud Infrastructure

AWS KMS, Gitlab

DevOps

Terraform Scripts, CI/CD pipeline with Sonatype quality integration

Case Study | Admin Portal to Unify platform users for Fintech organization (Cont'd..)



By partnering with Accionlabs, the client develops an Admin portal UI with integration of OKTA as the IAM provider which helps to solve the problem of having to manage millions of users under various platforms. The solution unifies all users via authentication and managed through OKTA.

Case Study | Fraudulent Claims Processing for a Data Analytics Insurance Co

Customer Profile

- A data mining and analytic services dedicated to serving the informational needs of the Long-Term Care (LTC) insurance industry

Challenges/Requirement

- Manual and rigorous screening of a large number of claims often in the range of 12,000 to 15,000 open claims
- Lack of any automated process for claims analysis
- Basic portal for claims processing without any multi-tenancy or collaboration features
- No risk analysis to sound out any potential fraud
- Very basic case investigation management

Solution Delivered

- Web-based case management solution to manage and track fraud scoring and investigation
- Custom-designed business rules engine to score and prioritize all claims based on the likelihood of fraud
- Centralized, workflow-driven solution to track investigations and manage case workflows
- Automatically-routed claims over a set threshold to the case manager for follow up action
- Business rules in XML format
- Enhanced security through data isolation for each client
- Mix and match of different conditions for business rule creation
- De-coupled architecture model, enables client DBs to be in multiple nodes if required
- Multi-tenancy SaaS architecture and greater collaborative environment for analysts with options to add notes, share attachments and delegate tasks

User Interface

HTML5, CSS, JS, jQuery, Bootstrap

App Services & Integration

Java, J2EE, Groovy

Databases & Indexing Engines

SQL Server, Teradata

Cloud Infrastructure

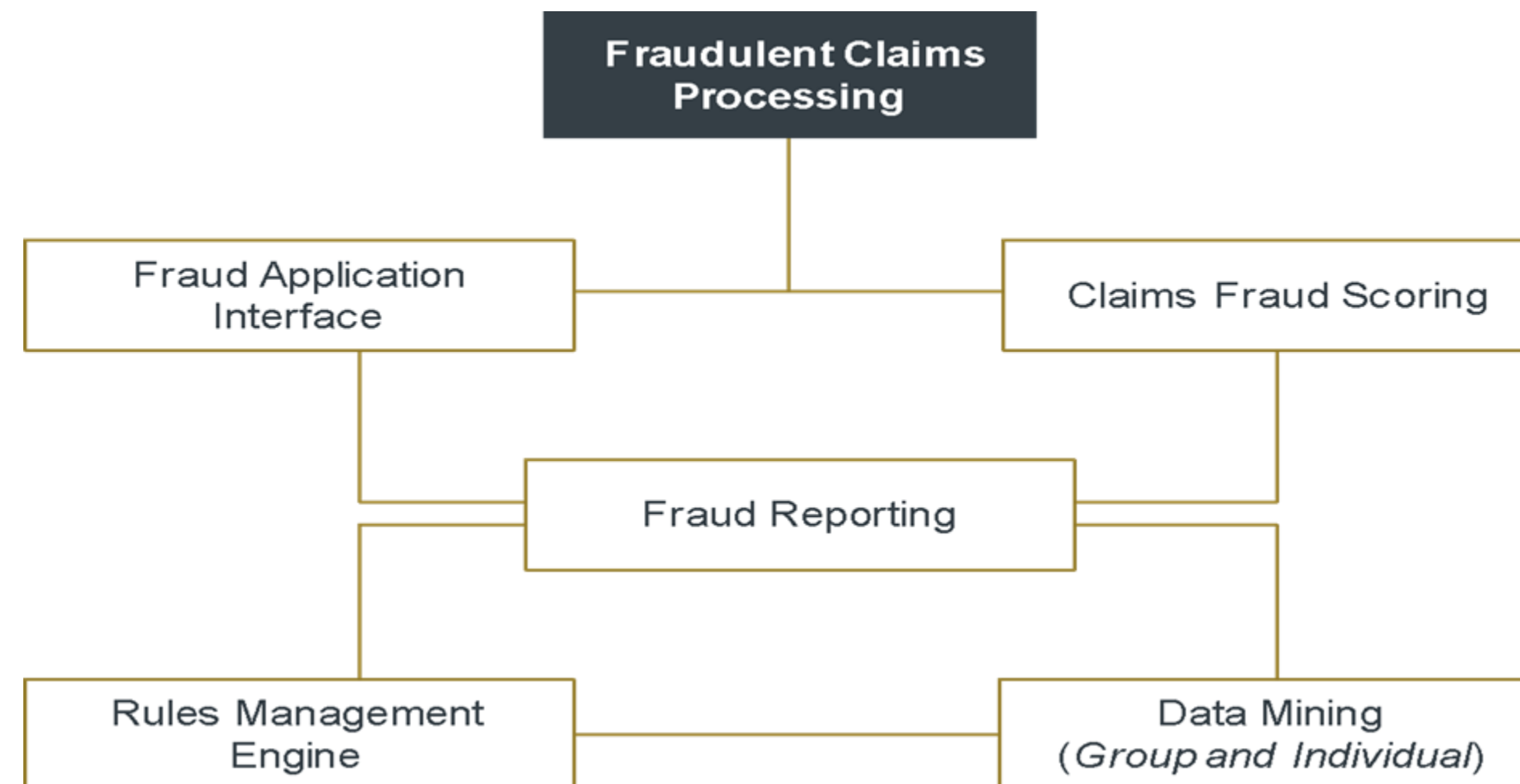
Private Cloud (Expedient)

DevOps

N/A

Case Study

Fraudulent Claims Processing for a Data Analytics Insurance Co (Cont'd..)



By partnering with Accionlabs, the client released a multi-tenancy web application for the LTC insurance industry, helping them identify potential fraud at the earliest, minimize ongoing fraudulent claims payments and limit litigation costs.

Case Study | Web-based personal wealth investment platform

Customer Profile

- Exciting new startup that wants to revolutionize traditional wealth management
- Provides wealth management services to United States households who have historically had little access to professional financial advice.
- Attempt to be a disruptor in the traditional wealth management space by using low-fee ETFs and mutual funds to improve diversification, invest efficiently, and lower fees.

Challenges/Requirement

- Existing architecture is not scalable and maintainable in nature.
- Transition to an intuitive & modern UI/UX platform
- Re-engineer monolithic application into a seamless REST based architecture
- Leverage modern UI frameworks like Bootstrap, D3JS
- and AngularJS to provide superior UX to customers.

Solution Delivered

- Constitution of team with following members:
 - UI Lead – Offshore, UI Developer – Offshore, Backend Developer – Offshore, QA Engineer – Offshore
- UI design & architecture by using Angular Ionic
- Simplified portfolio analysis & allocation aided by interactive visualizations in the form of numerous financial charts & graphs by leveraging D3JS library
- Implementing REST APIs for seamless communication between UI & backend components
- QA Automation using Selenium framework.
- Used third party integration (Authy API) for multi-factor authentication
- Leverage Jenkins and Github for automated build deployment.
- Enhanced UI & UX provides a simple trading platform for investors leading to ease of use, faster transactions, & generating long term customer loyalty.

User Interface
Angular Ionic

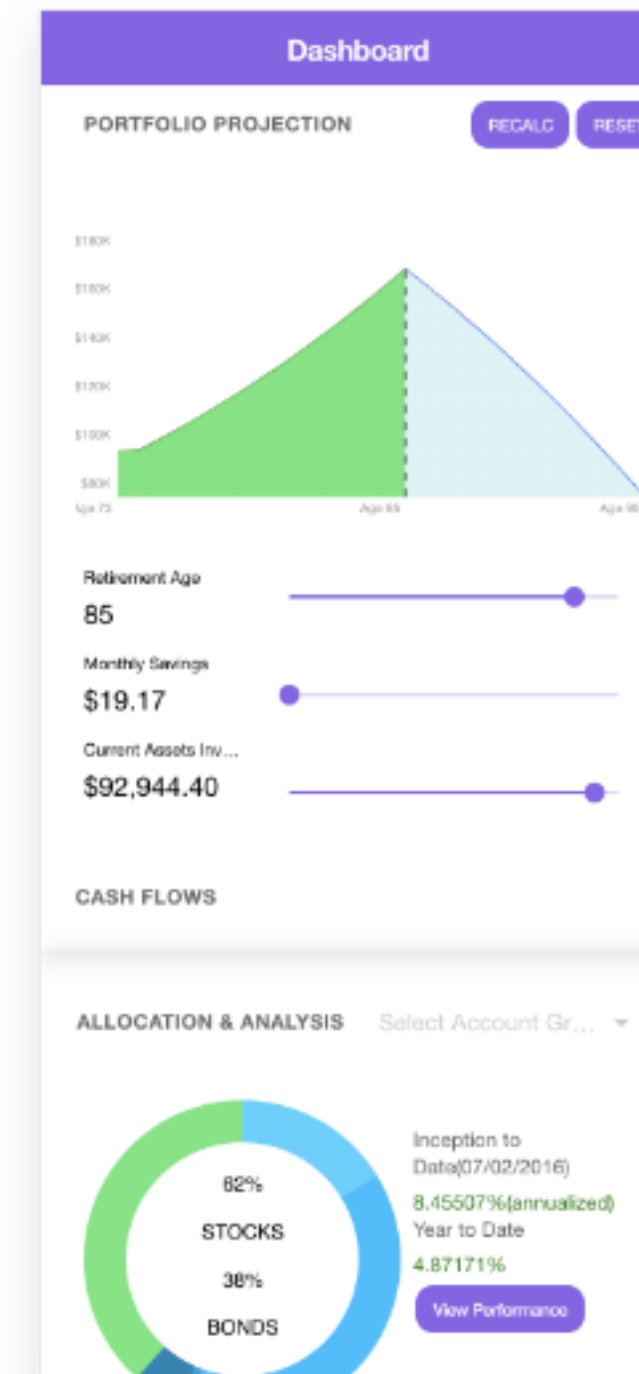
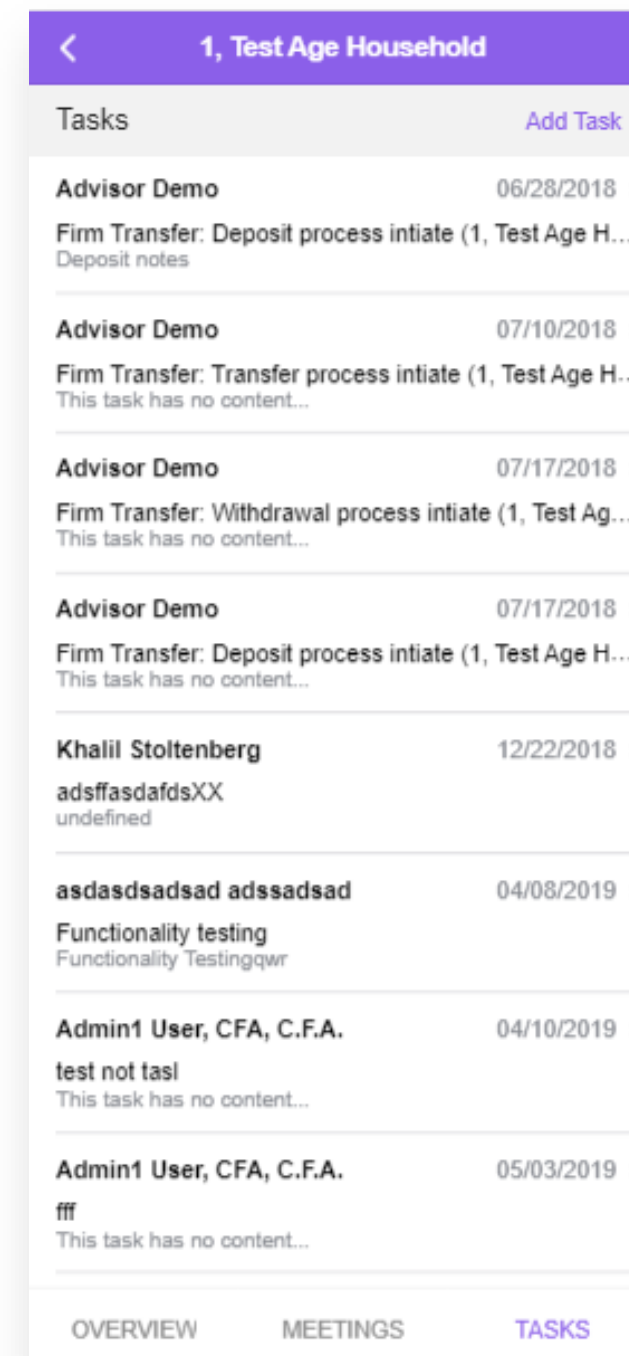
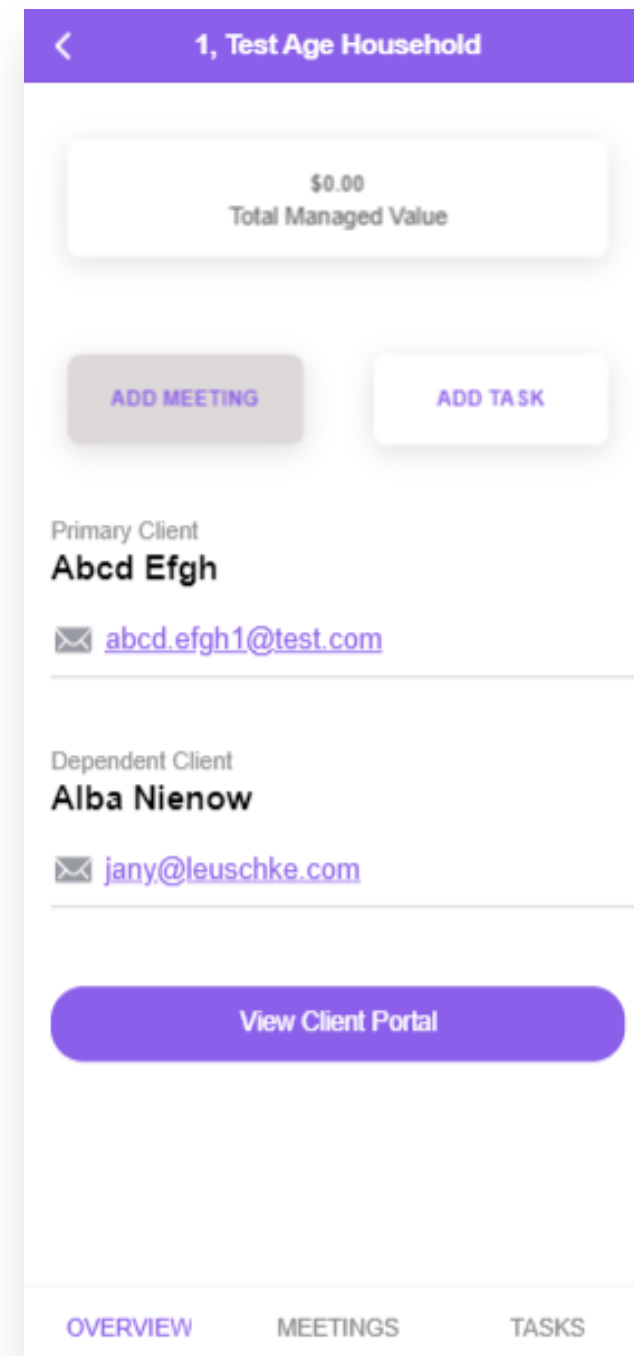
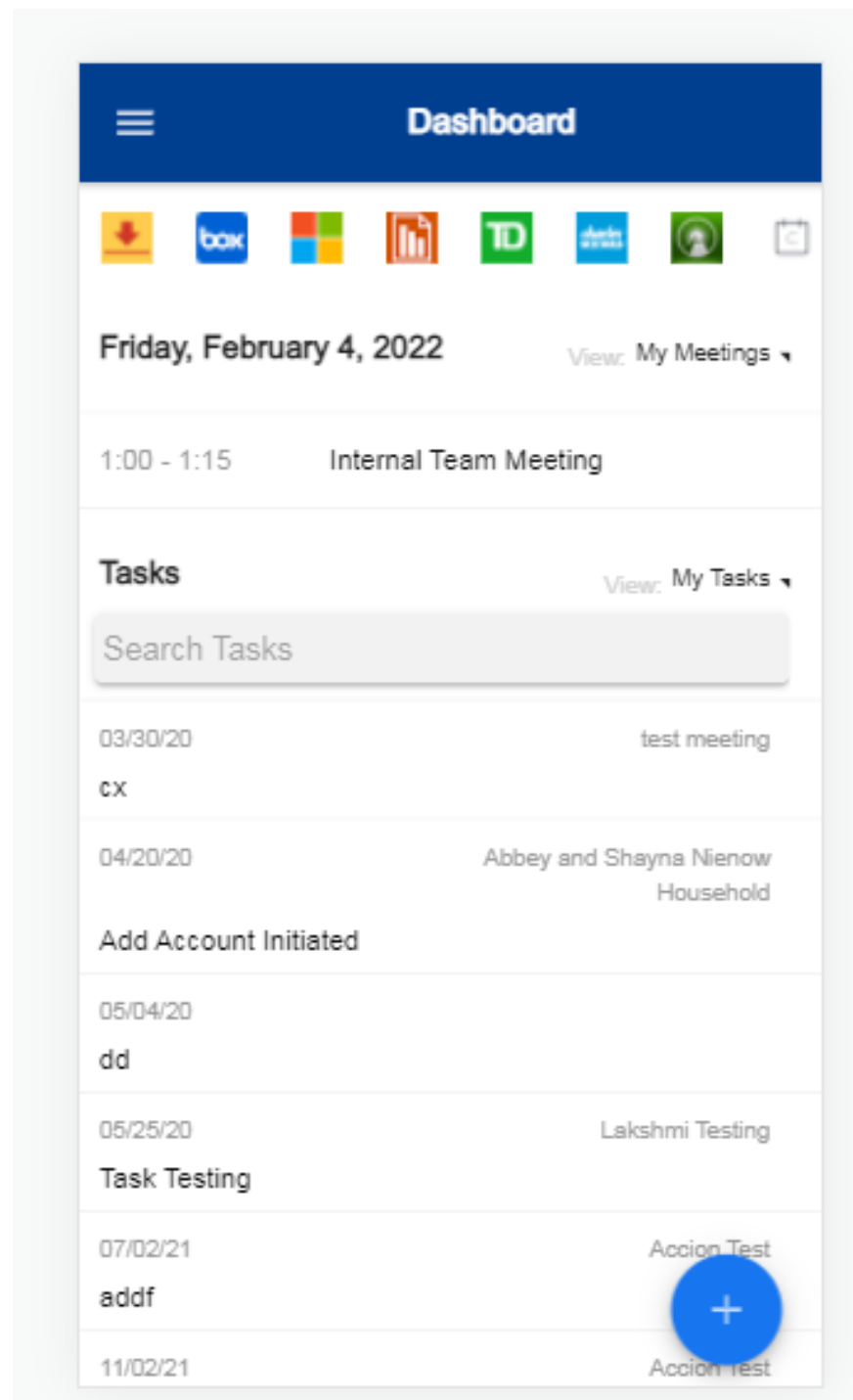
App Services & Integration
Ruby on Rails

Databases & Indexing Engines
MySQL

Cloud Infrastructure
AWS

DevOps
Github, Jenkins

Case Study | Web-based personal wealth investment platform (Cont'd..)



Case Study | Wealth management platform for Estate Planning Implementation

Customer Profile

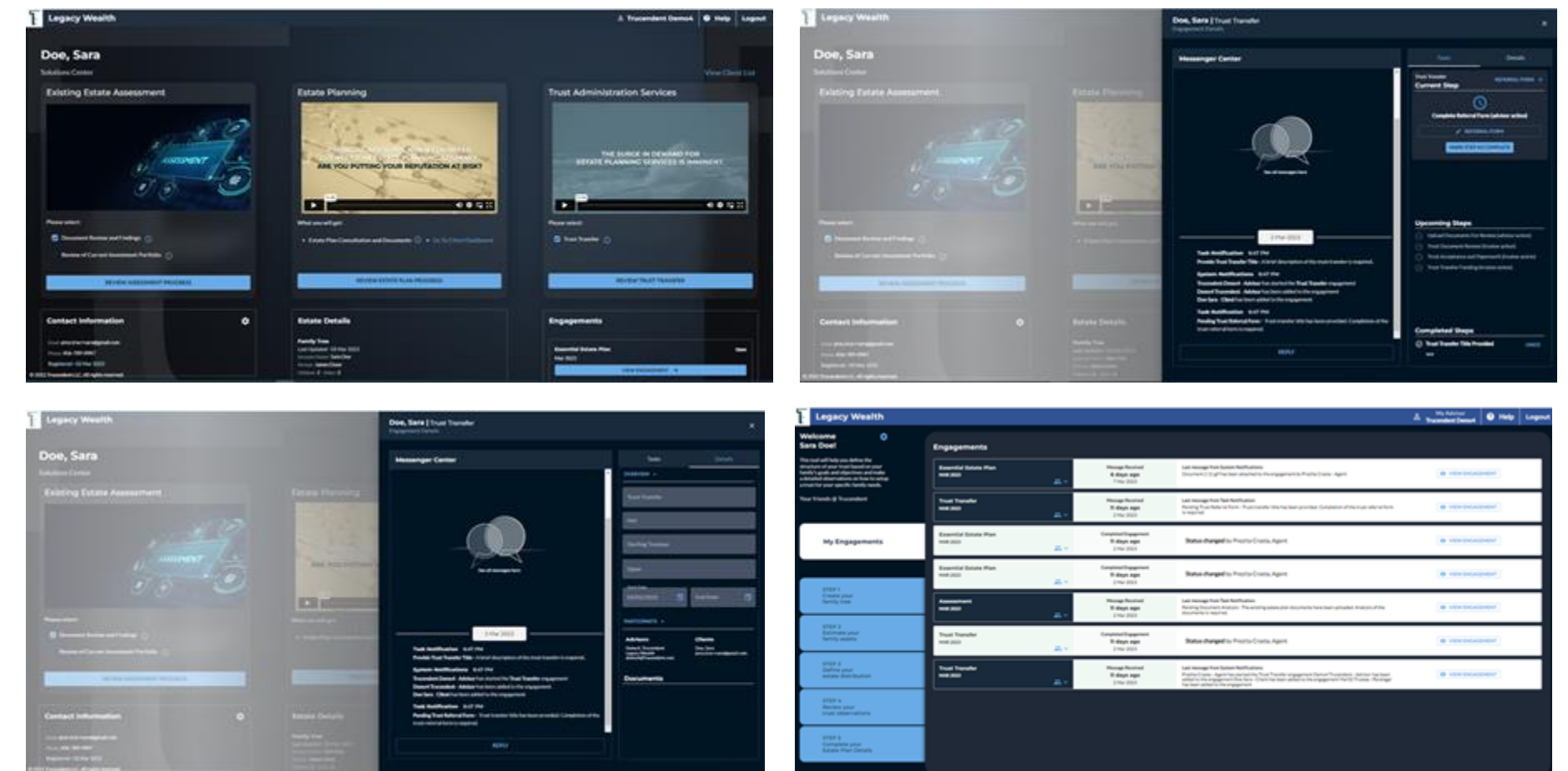
- Leading wealth management company for Estate planning, generational wealth handover and management of client assets with the support of a corporate trustee
- Patented algorithms for recommendations

Challenges/Requirement

- Different communication platforms for advisors, clients, attorneys and trustees
- Lack of holistic view / approach of generational wealth and estate planning
- Documentation management

Solution Delivered

- Workflow for different persona's
- Standalone platform for all the persona within the engagement
- Digital document management within the platform using HelloSign Integration of 3rd party detailing with Trust Transfer within the Trucendent platform



By partnering with Accionlabs, the client developed a comprehensive platform for advisors of generational wealth management and estate planning.

User Interface

React with hooks, Material UI, Next.JS, Pendo, Bit, Figma

Backend

Azure functions, Blob storage, Elmah, Sonar Cloud

Databases & Indexing Engines

SQL Server 2016

Cloud Infrastructure

N/A

DevOps

TFS, TestRail

Case Study | Collateral free Business Loans for MSMEs through Web and Mobile Apps

Customer Profile

- Kinara Capital is an RBI registered company and it has successfully disbursed loans to more than 36,000 MSMEs.
- Company envisions a financially inclusive world where every entrepreneur has equal access to capital.
- Company supports 300+ MSME Sub sectors & has disbursed Loans for 4000+ Crores across 3400 Pincodes.

Challenges/Requirement

- Transform Kinara Capital from a NBFC to a FinTech company.
- Provide a platform to customers to check Eligibility Criteria, Complete KYC, Sign Loan Documents without any manual intervention.
- Completely digitized Document work.
- Automate the Loan disbursement Process within 24 Hours.

Solution Delivered

- Constitution of 8-member team:
 - 1 Lead, 2 DotNet Junior Developers, 4 QAs and 1 BA Junior.
- Majorly involved testing of myKinara Application & PERDIX which was outsourced by a 3rd party Development team
- Building In-house APIs to support both the Loan Origination System (LOS) & Loan management System (LMS)
- Owning activities of writing BRDs, Testing end to end Functionalities, Build APIs & UAT activities.

User Interface
HTML, CSS, Bootstrap

App Services & Integration
REST API

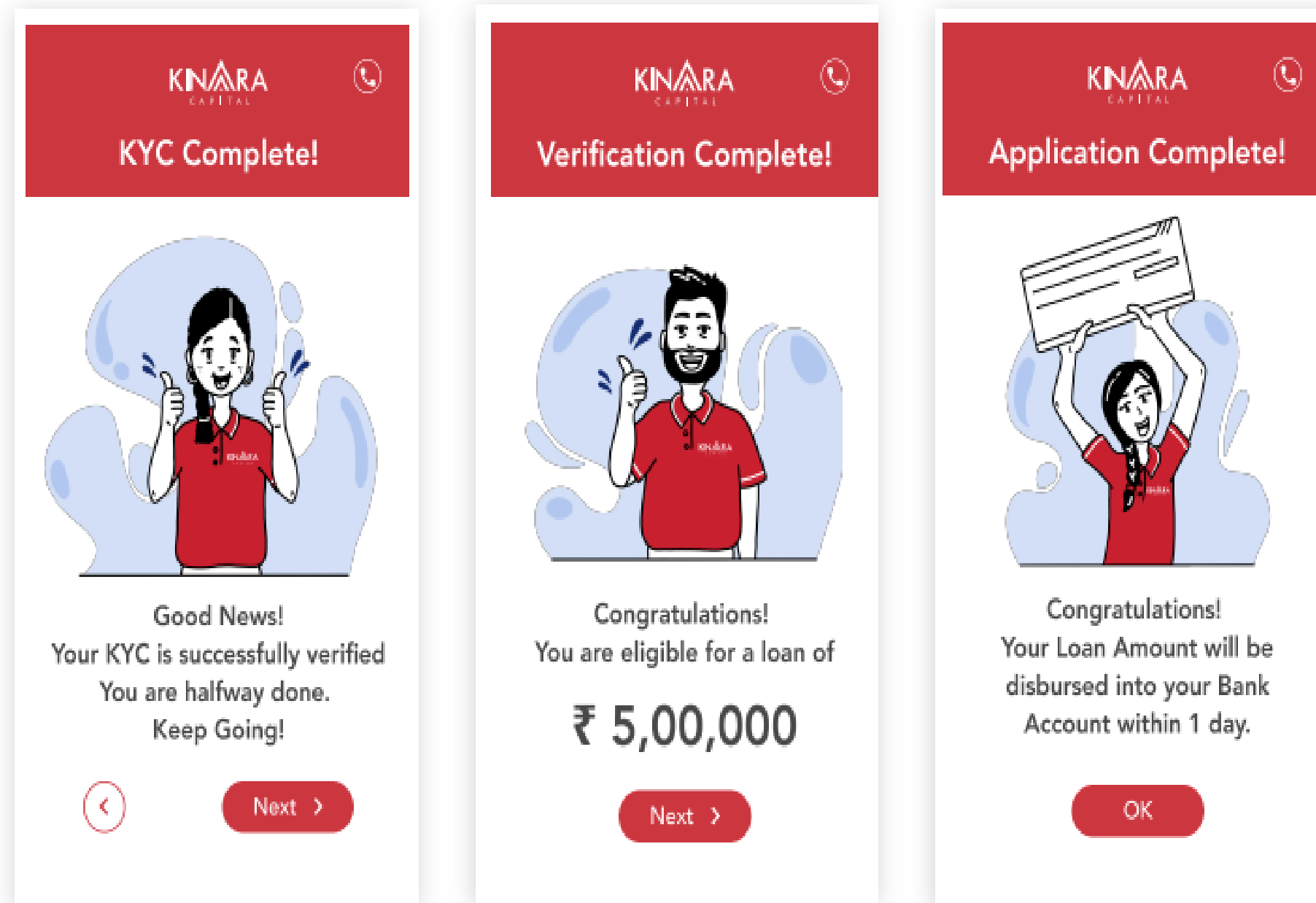
Databases & Indexing Engines
SQL Server 2016

Cloud Infrastructure
AWS

DevOps
GitHub

Case Study

Collateral free Business Loans for MSMEs through Web and Mobile Apps (Cont'd..)



- 1 **Fast eligibility check**
Find out if your business is eligible in just 1 minute! Available in 7 languages. Zero document upload required for eligibility check.
- 2 **Secure KYC & income verification**
Provide your personal & business documents. Fully secure online portal with easy upload. Help is at your fingertips with chat or call.
- 3 **Quick loan disbursement**
Get money in your account within 24 hours! Digital loan approval with electronic bank deposit.

By partnering with Accionlabs, the client manages Quality Assurance of myKinara Application & Perdix Systems along with building robust APIs which are required to engage this complex application.

Case Study | Development of Mobile Apps for Peer-to-Peer (P2P) Payments

Customer Profile

- A leader in technology platform enabling secure transfer of any type of payment, across any social and messaging channel, from any part of the world.
- Partners include remittance companies, mobile payment platforms, mobile wallet services, payment service providers, mobile network operators and social networks.

Challenges/Requirement

- Develop a Mobile Solution as per Apple and Android standards for Payment Services
- Integrate popular social networks and messaging platforms
- Provide reusable components

Solution Delivered

- Payment Solution in iOS and Android for users using popular social networks (Facebook, WhatsApp, Twitter, We Chat)
- Automate QA practices
- Develop Frameworks and SDKs aiding reusability
- Introduce Hybrid Apps for Rapid App development (RAD)
- XOPO: <https://vimeo.com/143710673>
- Ping Pay: <https://www.youtube.com/watch?v=iUYdEUWtYg0>

User Interface

iOS, Android

App Services & Integration

Fastacash API's and SDKs

Databases & Indexing Engines

[Developed to 3rd party integration solution]

Cloud Infrastructure

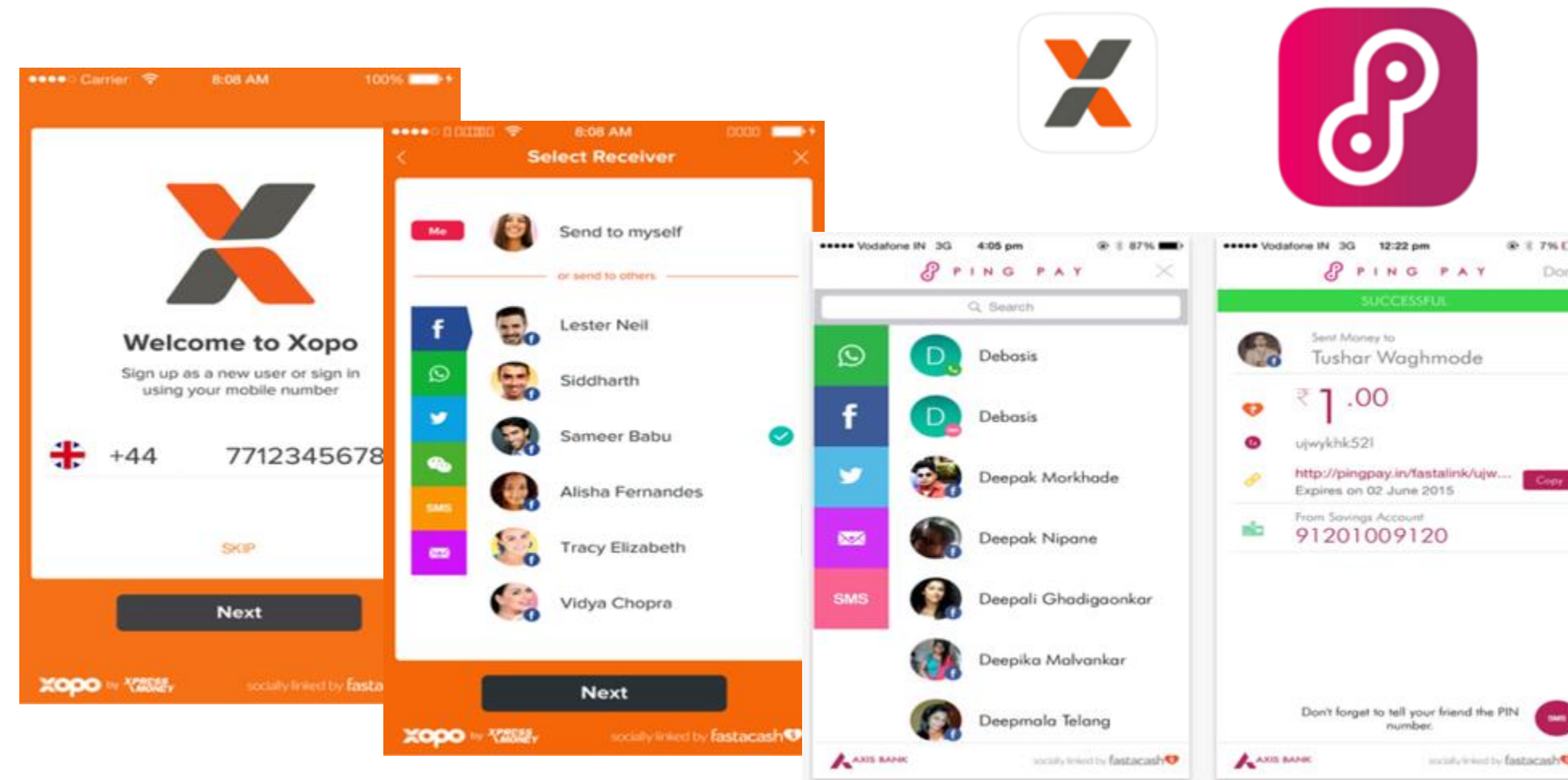
[Developed to 3rd party integration solution]

DevOps

[Developed to 3rd party integration solution]

Case Study

Development of Mobile Apps for Peer-to-Peer (P2P) Payments (Cont'd..)



By leveraging Accionlab's Mobility expertise, the client releases apps based on technology which enables people to make seamless payments to friends via popular social networks and apps

Case Study | Fintech Platform for an upcoming Start-up

Customer Profile

- Small start-up planning big on providing a Fintech platform to provide lending to small and medium businesses
- It is funded by a brokerage firm and headquartered in Florida, USA – with not more than 50 employees
- Targeting with the US, has plans to expand into Canada and Europe

Challenges/Requirement

- Start up portal – initiated building a clientele base
- Develop multiple channels including Web, Mobile (iOS, Android) and Salesforce
- Small businesses need a quick way to satisfy their funding requirements including working capital
- Funder wants to outreach to small businesses that require funding
- Brokerage wants a seamless way to collaborate with funders and business owners
- Easy and secure online loan application

Solution Delivered

- Designed & Built a loan application platform that seamlessly connects brokerage with merchants and funders
- Built native cross-platform mobile (both iOS and Android) based applications
- Complete ownership of UI/UX design
- Production deployments over Amazon AWS cloud
- Evaluated and Integrated multiple 3rd party SaaS services like:
 - Digital signature of funding agreements (by SignNow)
 - Online access to bank statements (by Yodlee)
 - Obtain Merchant Credit Score (by Experian)
 - Process scanned & electronic documents (by IBM Datacap – Optical Character Recognition)
 - Create application functionality through Salesforce

User Interface
AngularJS

App Services & Integration
Yodlee, SignNow, Experian, IBM
Datacap, Salesforce, Mobile, Web

**Databases & Indexing
Engines**
PostgreSQL, Solr

Cloud Infrastructure
Amazon AWS

DevOps
GitHub, Redmine

Case Study | Fintech Platform for an upcoming Start-up (Cont'd..)

info@accionlabs.org 1-800-844-3195 Sub-test

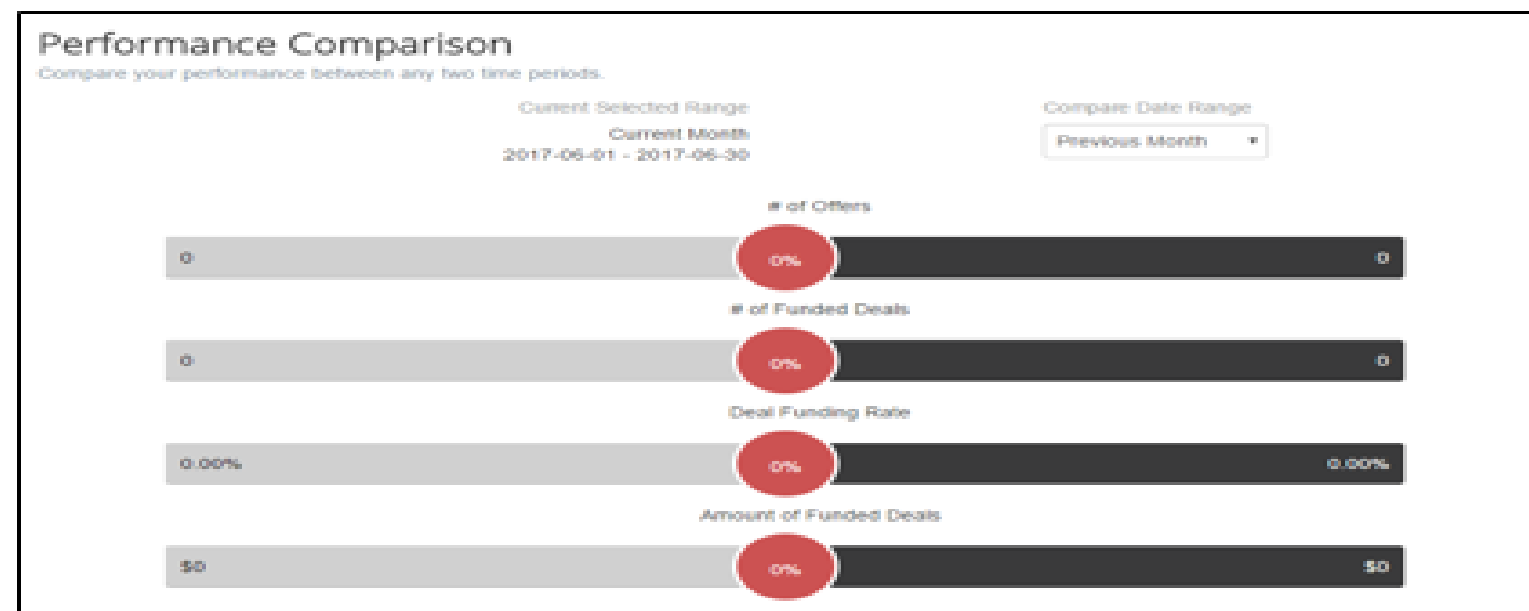
DASHBOARD MERCHANT APPLICATIONS SAVED APPLICATIONS ASK FUNDER MY FUNDING PROGRAMS

Loan Application - Preview

Include Partner Funding Programs Submit Save Ask Funder Cancel

Loan Details		Business Information		Business Information	
Business Name	adidas	Federal Tax ID	999999999	Legal Business Name	adidas
Credit score		Business Entity Type	Corporation	DBA Business Name	adidas
Loan Amount	\$2,000	State of Incorporation	Alabama	Contact Name	adidas
Loan Term	1 day	Business Start Date	06/01/2017	Telephone	(999) 999 - 9999
Need it By	22 days	Industry Type	Apparel, Accessories & More	Email	adidas@adidas.com
		Seasonal Business	No	Gross Annual Revenue	\$50,000

Business Address		Users / Payments / Bankruptcy		Merchant Documentation	
Street Address	adidas	Any judgement or liens	NA	Document	Description
City	adidas	Are you currently in payment plan?	NA	Driver's License	
State	Alabama	Have you ever filed for bankruptcy?	NA	Voided Check	
Zip Code	99999				
RMS Address					
Telephone	(999) 999 - 9999				
Fax Number	(999) 999 - 9999				



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DASHBOARD MERCHANT APPLICATIONS SAVED APPLICATIONS ASK FUNDER MY FUNDING PROGRAMS

Login

Remember Me

E-mail

Password

Keep Me Logged In

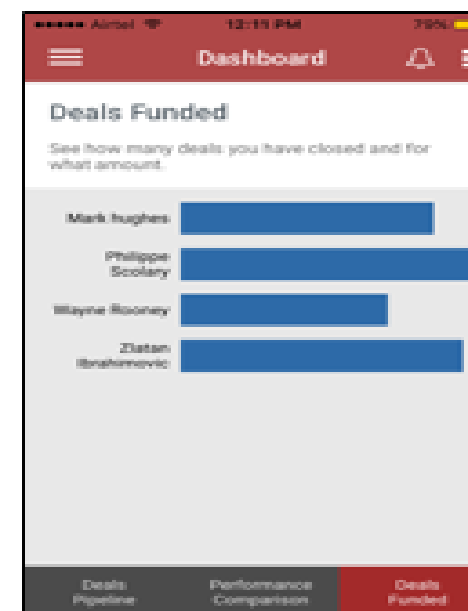
Login

Forgot Password

New User

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DASHBOARD MERCHANT APPLICATIONS SAVED APPLICATIONS ASK FUNDER MY FUNDING PROGRAMS

Dashboard

Deals Pipeline

Merchant Applications

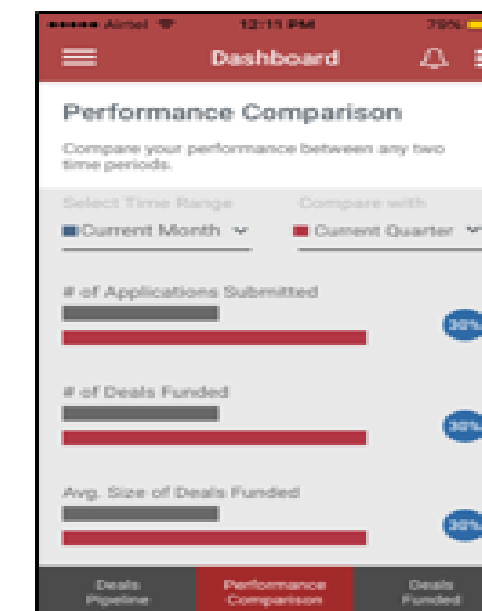
Saved Applications

Funding Programs

Ask Funder

Sign Out

Version 0.0.1



Deals Pipeline

Track control of your pipeline and fund more deals. View every application and their status below.

Status	Deal Value	Average Value
New	\$2,000	\$2,000
Underwriting	\$2,000	\$2,000
Need More Stips	\$16,000.00	\$16,000.00

- ## Notifications
- Funder funds the 06/20/2017 **FUNDED!!! Congratulations, Vinay1**
 - Need More Stipulations 06/20/2017 **Need More Stipulations**
 - Lender approves the 06/19/2017 **The application for Vinay1 is in**
 - Merchant accepts 06/19/2017 **Vinay1 has accepted a funding**
 - Funder rejects the 06/09/2017 **Vinay1 did not qualify.**
 - Funder comments on 06/09/2017 **Funder has posted a comment**
 - Funder comments on 06/09/2017 **Funder has posted a comment**

Being the sole technology partner for the client, Accionlabs undertook various responsibilities like Digital transformation, Cloud integration, 3rd party SaaS identification and integration and User Experience design.

Case Study | Development of Mobile Apps for best Forex Rates

Customer Profile

- An online aggregator of foreign exchange dealers with objective to improve the consumer experience of carrying out their Forex transactions while travelling to or from India.

Challenges/Requirement

- Delivering a Mobile Solution to meet Apple App Store and Android Market Place development standards
- Integrate Google Map Services
- Integrate Chat Engine

Solution Delivered

- Mobile Application iOS and Android for iPhone and Android users with Google Maps and Chat Engine integrated from HipMob
- Developed Restful API's and backend services in .Net
- <https://www.youtube.com/watch?v=qhh4FsL4s9w&feature=youtu.be>

User Interface
iOS, Android

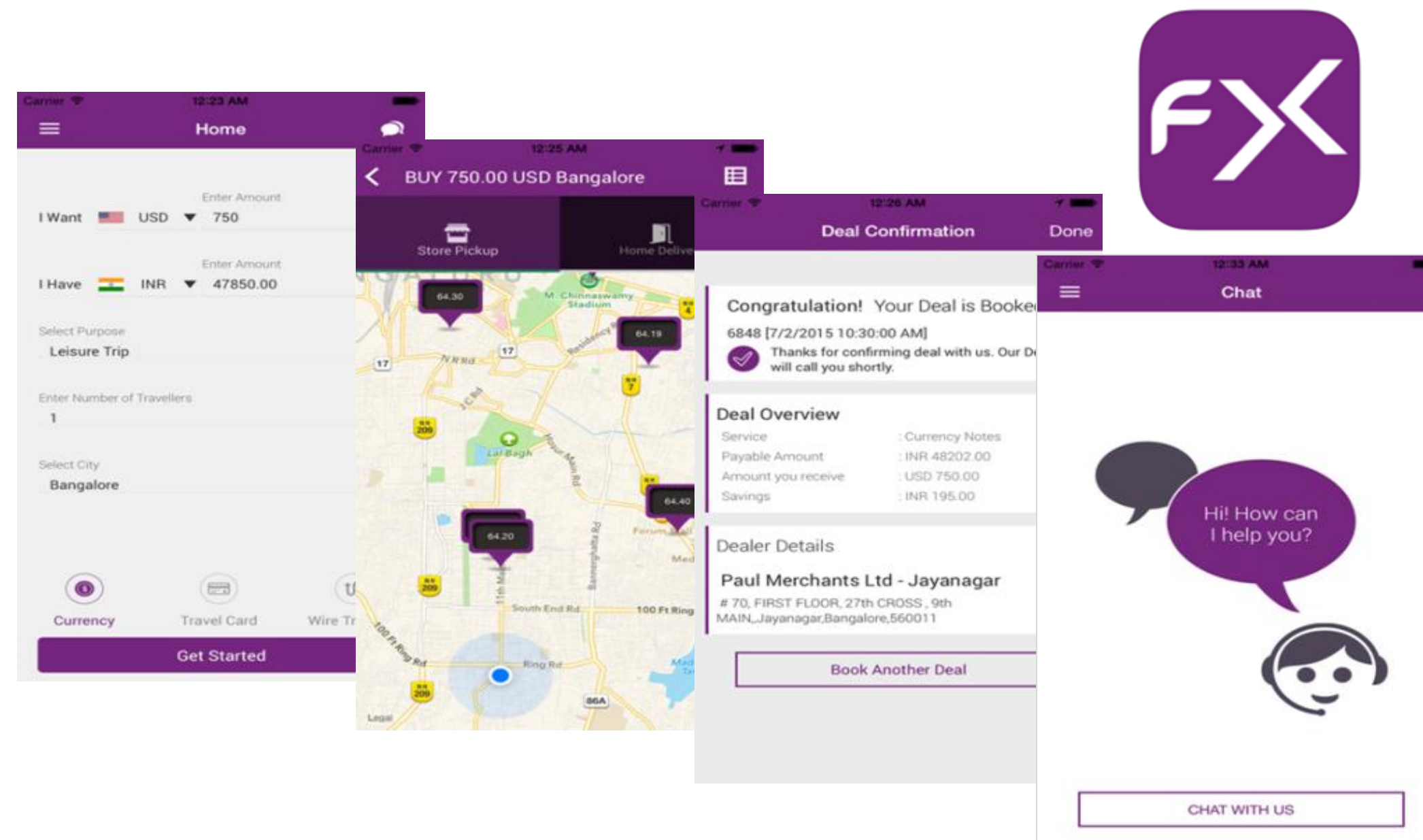
App Services & Integration
Microsoft .Net

Databases & Indexing Engines
SQL Server

Chat Engine
HipMob

Mapping
Google Maps

Case Study | Development of Mobile Apps for best Forex Rates (Cont'd..)



By partnering with Accionlabs, the client launches a unified mobile solution which offers competitive rates to users by comparing and choosing the best forex rates from different dealers in India.

Case Study | Unified Data Repository for a Risk & Claims Management Company

Customer Profile

- A leading CPA-directed program of professional and employment practices liability insurance for the accounting profession
- Operating in 40+ US Cities with over 1000 policyholders signed per month

Challenges/Requirement

- Complex database schema running across several tables
- Risk analysis demands large scale change in queries
- Analytic algorithms spread across different stored procedures and complex algorithms
- Difficulty in maintaining data model
- Huge volume of structured and unstructured claims data
- Lack of any capability in processing or driving business outcomes from huge volumes of data

Solution Delivered

- Unified big data repository combining structured and unstructured data over Hadoop
- Custom-designed Java ETL tool for data extraction
- Advanced text search and analysis for entity extraction
- Leverage OpenCV library towards pattern recognition and analysis in scanned documents
- Fast ad-hoc queries through a distributed processing engine using Hive and Impala
- Interactive analytical visualization

User Interface

HTML5, CSS, JS, Angular JS

App Services & Integration

Java, J2EE

Databases & Indexing Engines

Hadoop, Hbase, Hive, Impala

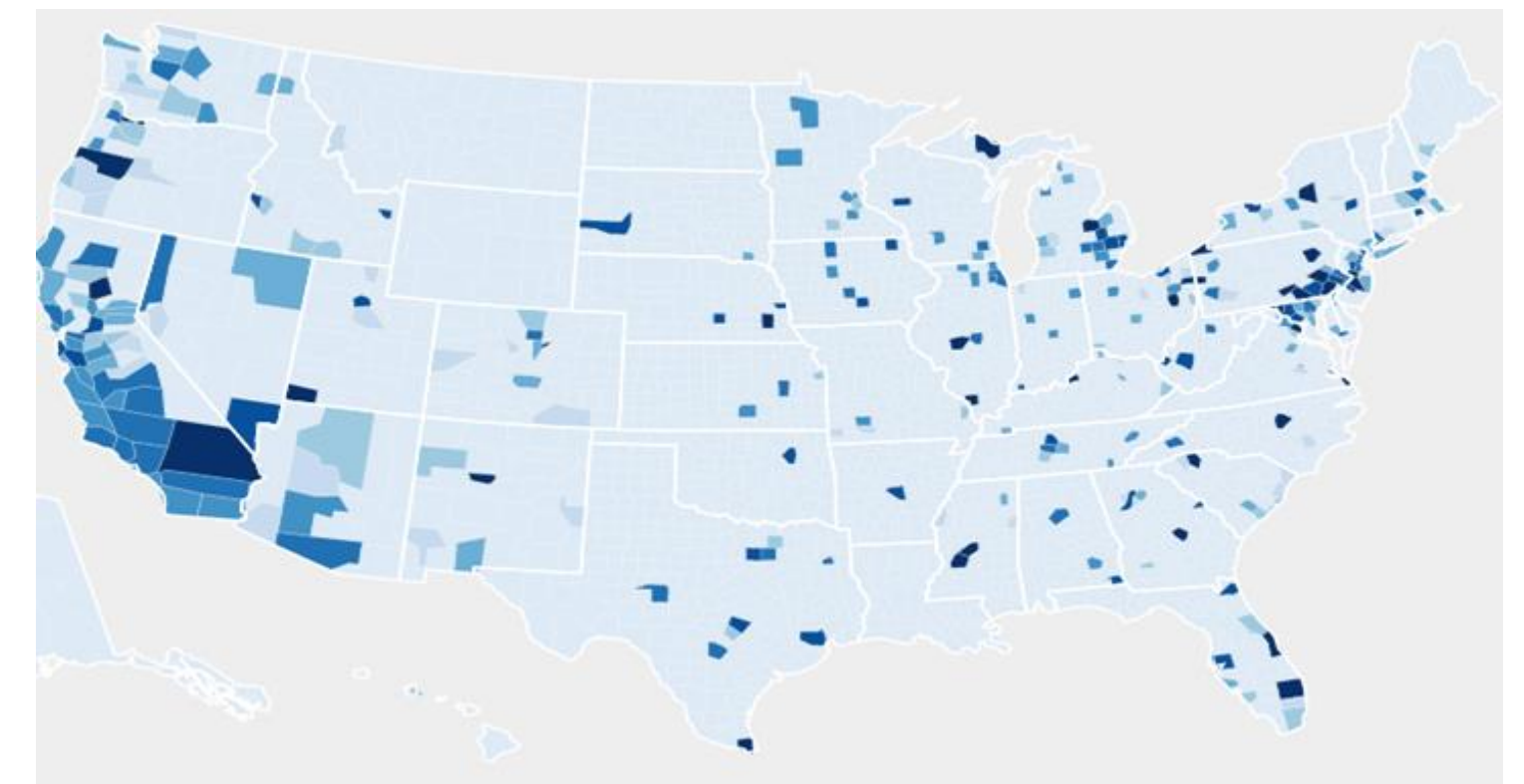
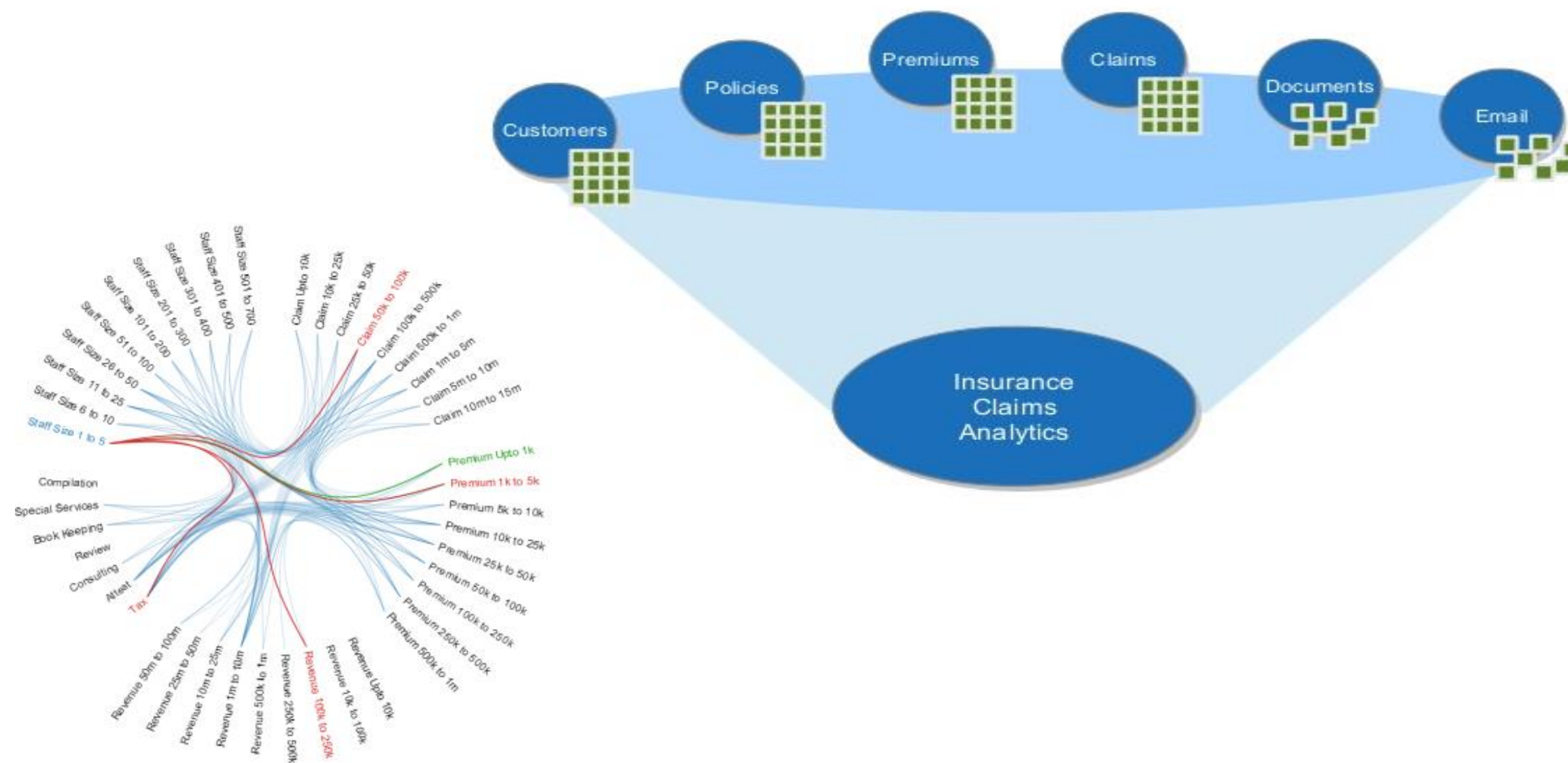
Cloud Infrastructure

Amazon EC2

DevOps

Grunt, Maven, Bower, Selenium, Karma, Jasmine, Protractor, Perfaccion, Jenkins, Chef, Ansible, Salt

Unified Data Repository for a Risk & Claims Management Company (Cont'd..)



By partnering with Accionlabs for a unified data repository, the client enhances its risk analysis and claims settlement process with a market-ready analytics platform and tools

Case Study | B2C goal-based advisory tool for investment

Customer Profile

- One of India's leading diversified financial services company providing a broad range of financial products and services to corporations, institutions and individuals
- Business interests spanning multiple asset classes and consumer segments across domestic and global geographies.
- Sizeable presence in large retail segment through its businesses such as Life Insurance, Housing Finance, Mutual Fund and Retail Financial Markets including Stock Broking

Challenges/Requirement

- Design a Investor Questionnaire driven interface/workflow which facilitates automatic Mutual Fund portfolio allocation based on customer's risk profile, financial goals and investment preference
- Existing architecture is not scalable and maintainable in nature.
- Transition to an intuitive & modern UI/UX platform
- Enhance UI/ UX for customers by providing accessibility to features with minimal clicks
- Re-engineer monolithic application into a seamless REST based architecture
- Leverage modern UI frameworks like Bootstrap, D3JS
- and AngularJs to provide superior UX to customers.

Solution Delivered

- Constitution of team with following members:
 - UI Lead – Offshore, UI Developer – Offshore, Backend Developer – Offshore, QA Engineer – Offshore, Scrum Master/offshore Coordinator
- Adhering to client's request for constant & dynamic changes in UI design/architecture
- Integrating ATOM –3rd party payment gateway with the web platform
- Simplified portfolio analysis & allocation using numerous financial charts & graphs by leveraging D3JS library
- Implementing REST APIs for seamless communication between UI & backend components and abstracting the presentation layer from the business logic.
- Enhanced UI & UX led to faster transactions, an easy to use trading platform, simplified research, & low brokerage rates

User Interface

HTML/HTML5, JS, CSS, AngularJS, D3JS

App Services & Integration

Node.js

Databases & Indexing Engines

PostgreSQL, MongoDB

Cloud Infrastructure

AWS

DevOps

GitHub, Jenkins

Case Study | B2C goal-based advisory tool for investment (Cont'd..)

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Ideas create, values protect

LOG IN

We'll help you choose the right **Portfolio**

RISK ASSESSMENT QUESTIONNAIRE

NEED ABILITY WILLINGNESS

How much investment experience do you have?

Some what

What is your primary purpose of investment?

Generate Handsome returns

How old are you?

34-45 Yrs

How much amount you want to invest on a monthly basis?

Rs.5000 - 10,000

Interested in detailed Risk Profiling?

RISK TOLERANCE

CONSERVATIVE MODERATELY CONSERVATIVE MODERATE MODERATELY AGGRESSIVE AGGRESSIVE

PORTFOLIO

Debt 50.00 % Equity 42.60 % Cash 26.45 %

10000 1,00,000 1,000,000

5 Yr 10 Yr 15 Yr 20 Yr

Your Portfolio Active Funds Benchmark

It is never late to start your investments. It will take you less than 5 minutes to create one.

CREATE MY PORTFOLIO

About Website

Edelweiss.in is one of India's leading online stock/ share trading portal which allows you to trade on BSE and NSE across multiple asset classes like equities, derivatives, currency, commodity, mutual funds, etc. You can also open a demat account and check live stock prices.

Why Edelweiss

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Diversified Portfolio
Efficient Investing
Safety & Security
Industry Experts

Services

Retirement
Wealth Builder
Contingency

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Edelweiss
Ideas create, values protect

Dashboard Watchlist Transactions Jay Prakash Sinha

Portfolio - Fund Selection

Recommended Top Performance Popular NFO All

Asset type Category Options Fund house Rating Risk Size Longevity

Select Asset type Select category Select option Select fund house 5 Star Low 100 Cr. Select FIND

FUND NAME	ASSET	CATEGORY	NRV	RISK	RATING	ACTION
Birla Sun Life Top 100 (G)	Equity	Diversified	180.40	HIGH	★★★★★	BUY SELL
<p>Birla Sun Life top 100 (G)</p> <p>Fund Family: Birla Sun Life Asset Management Co. Ltd. Fund Class: Equity Add to Watchlist</p> <p>180.40 18.25 (11.07 %)</p> <p>Asset Size (Rs cr) 256.89 Expense Ratio 1.85 Inception Date 11-May-2008</p> <p>Volatility (Std dev) 16.86% YTD Return 8.65% Turnover Ratio 42.65%</p>						
ICICI Pru Blended Plan-B-Direct (MD)	Debt	Arbitrage & Arbitrage Plus	14.62	HIGH	★★★★★	BUY SELL
DWS Alpha Equity Fund - WP (D)	Debt	Diversified	78.85	HIGH	★★★★★	BUY SELL
Tata Balanced Fund - Regular (G)	Equity	Diversified	180.40	HIGH	★★★★★	BUY SELL
Indiabulls Liquid Fund (G)	Equity	Diversified	120.36	HIGH	★★★★★	BUY SELL
Tata Dynamic Bond - Regular Plan (G)	Equity	Diversified	45.85	MEDIUM	★★★★★	BUY SELL
HDFC High Interest - Dynamic (G)	Equity	Diversified	22.45	LOW	★★★★★	BUY SELL
IDFC Arbitrage Fund - Direct (D)	Debt	Diversified	425.15	MEDIUM	★★★★★	BUY SELL
DWS Alpha Equity Fund - WP (D)	Debt	Diversified	14.62	LOW	★★★★★	BUY SELL
Tata Balanced Fund - Regular (G)	Equity	Diversified	78.85	HIGH	★★★★★	BUY SELL

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Efficient Investing
Safety & Security
Industry Experts

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Retirement
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By partnering with Accionlabs, the client transitions to an intuitive and modern UI/UX platform, resulting in an easy to use trading platform, faster transactions, simplified research, & low brokerage rates.

Thank You



fintech@accionlabs.com | www.accionlabs.com

PITTSBURG | SANTA CLARA | RALEGH | ORLANDO | MARYLAND | AUSTIN | TORONTO | GUADALAJARA | ROMANIA | SINGAPORE | KULALAMPUR
THAILAND | LONDON | DUBAI | PHILIPPINES | BANGALORE | MUMBAI | PUNE | GOA | HYDERABAD