



## AFFILIATE PARTNERS



# Digitization & Automation in Banking & Financial Services Industry

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Hi, In this discussion, we will look at how **Microsoft Azure** is enabling automation and business transformation in BFSI industry.



Digitization & Automation in BFSI

# Digitization & Automation in Banking & Financial Services Industry

BFSI, that is Banking, Financial Services and Insurance includes banks - ranging from large state owned and private banks to local, small co-operative banks

The video frame features a speaker on the right and a diagram on the left. The diagram consists of a central blue circle with a white building icon and the text 'BFSI' below it. A curved line connects this circle to three numbered points: 01 Challenges (with a gear icon), 02 Role of technology (with a gear and circuit icon), and 03 Benefits for customer (with a person icon). A subtitle at the bottom reads: 'by adapting the technology enabled solutions.'

# Digitization & Automation in Banking & Financial Services Industry

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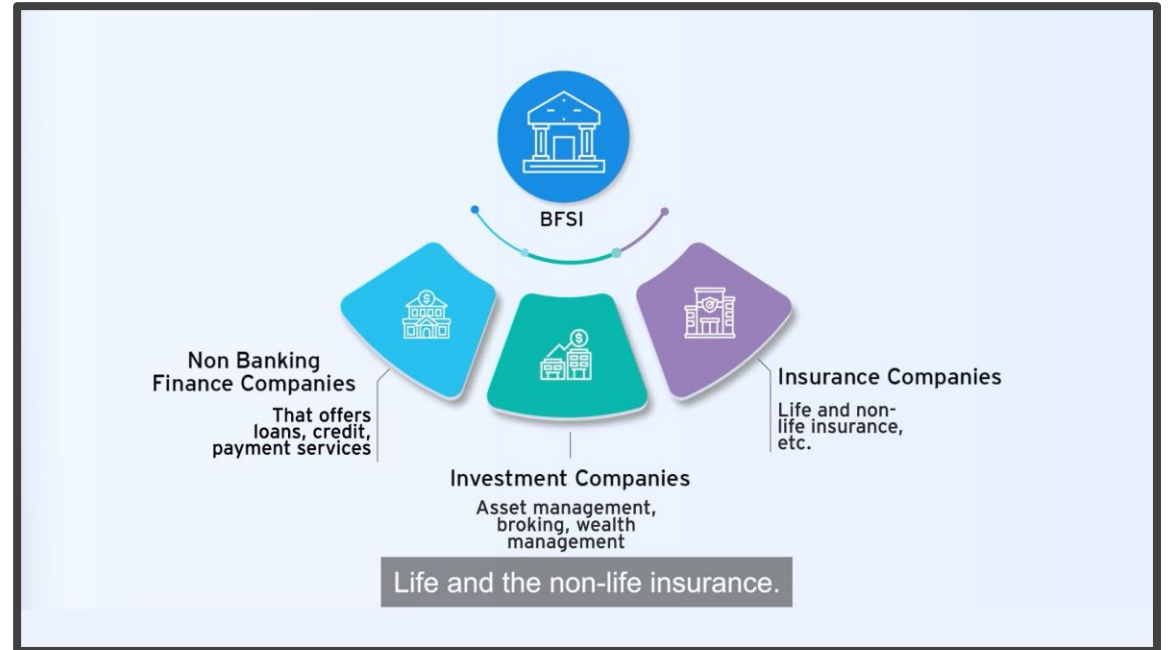
BFSI, that is Banking, Financial Services and Insurance includes banks - ranging from large state owned and private banks to local, small co-operative banks;



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Non-Banking Finance companies - that offer loans, credit, payment services; Investment companies - Asset Management, Broking, Wealth Management, Investment Banking; Insurance companies - Life and non-life insurance; etc.

Financial Services sector plays foundational role for any economy as it channels the funds for growth of all other sectors; helps them optimally manage their surplus and to cover their risks.



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Digitization & Automation in BFSI - Current state

**Digitization & Automation in  
BFSI - Current state**

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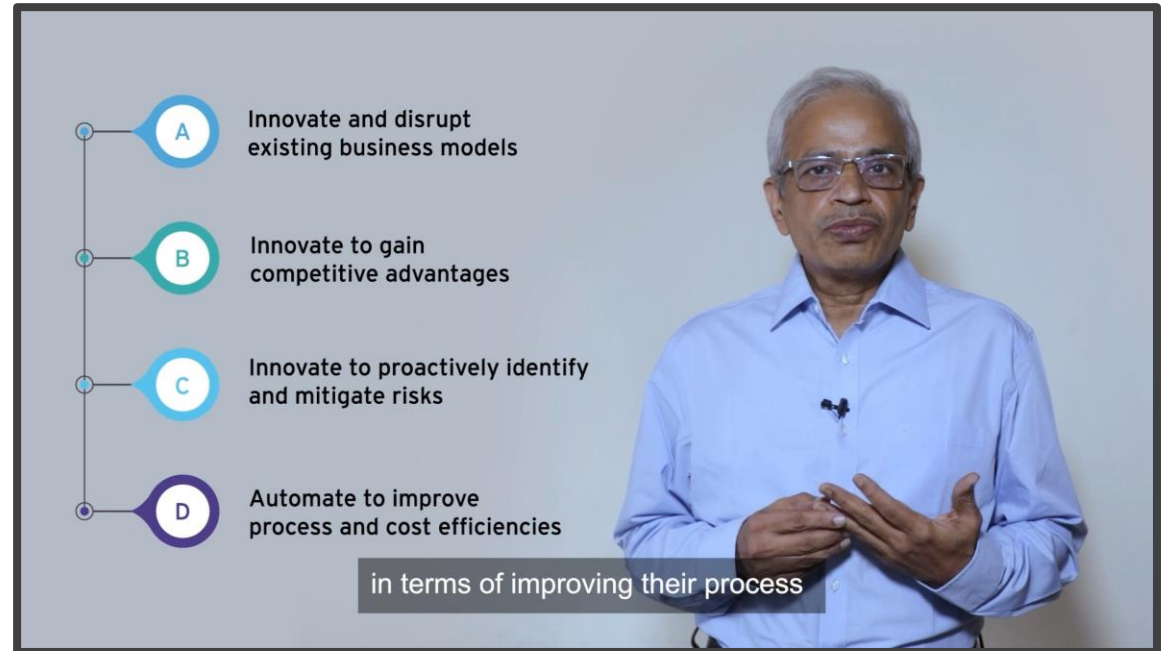
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Digitization & Automation in BFSI - Current state - **Rakesh Vajpai | Industry Expert Fin-Tech**



# Digitization & Automation in Banking & Financial Services Industry

Financial Services sector is one of the early and leading adaptors of Microsoft Azure, not only in India but across the globe. As you would know, most of the financial services consumed by us do not require us to go to a bank or an insurance company's branch. We can avail of these services online, for example online payments, buying and selling shares, mutual funds and insurance policies. Several of these companies and service providers use Microsoft Azure services as their digital backbone.

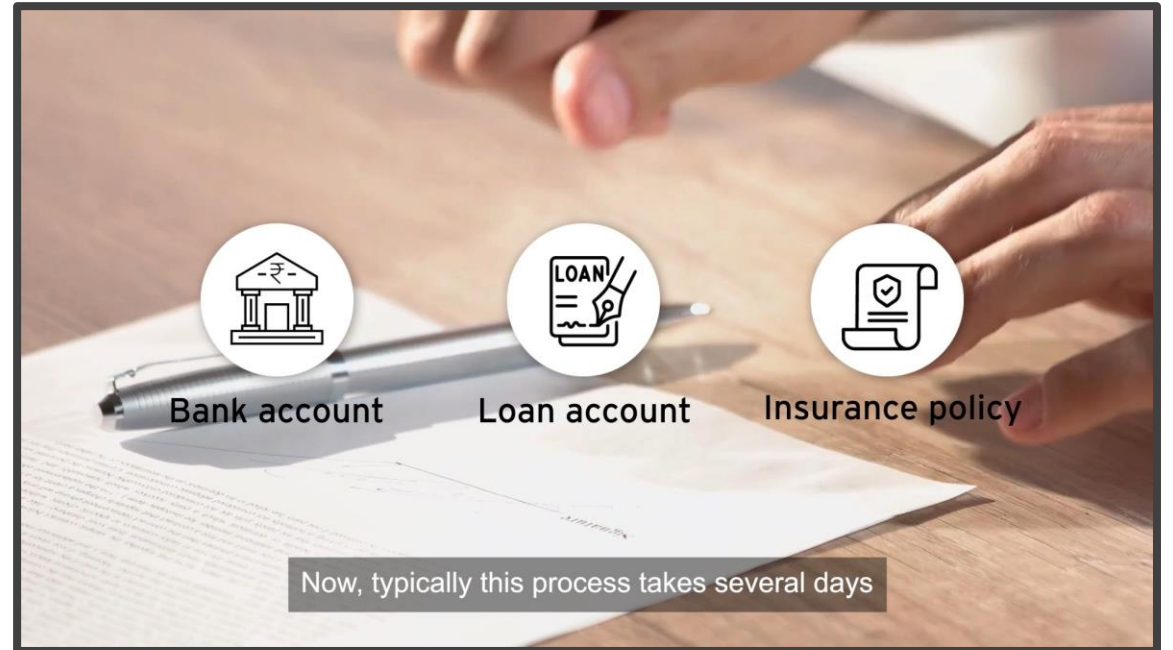




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So, let's take one example let's say its a bank or an insurance company it's very important for them to acquire a customer could be a new bank account to be opened or loan account to be created or new insurance policy to be created.



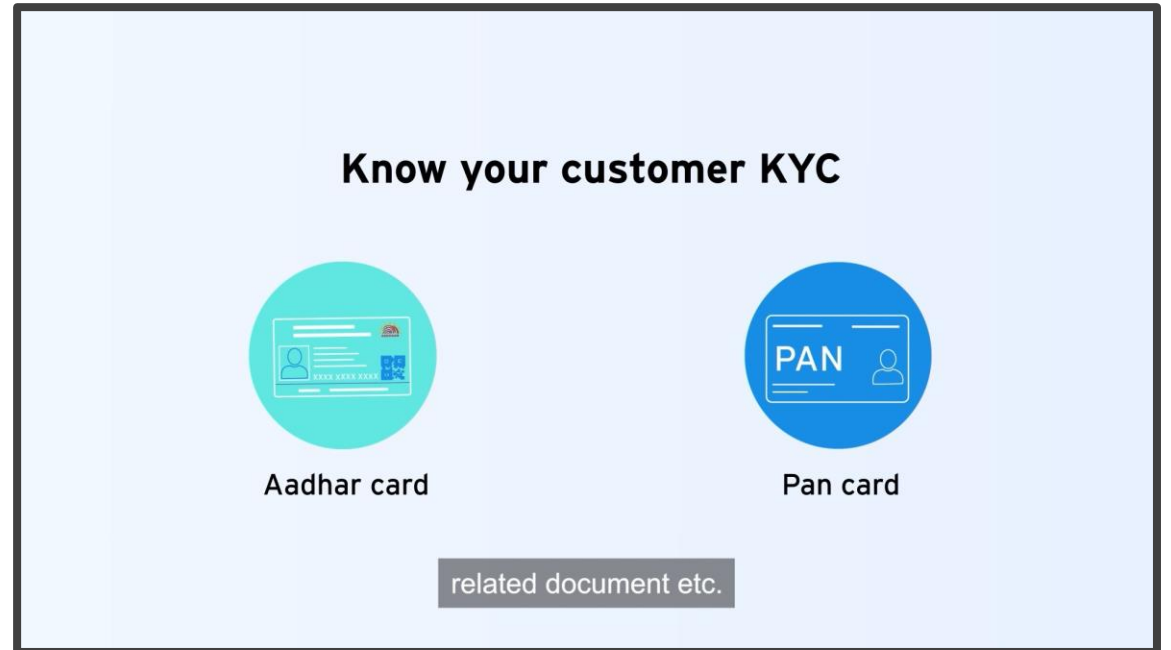
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Now, typically this process takes several days

Why?

because you have to not only collect the details of the customer get them to fill the form etc. But also you need to take a lot of there documentation also with you which is required from regulation point of view you need to have what is known as "Know Your Customer" KYC. And you need to have their details these could be Aadhaar card, PAN card, address proof, there date of birth, related document etc.



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Let's say the customer and the sales representative are meeting with each other right while they are meeting the representative takes the photograph of the customer on his mobile phone. and also it takes the images of all the document that need to be submitting for example PAN card, Aadhar card, etc.

**How Microsoft Azure works**

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The representative sends the details directly online to a service in Azure. It would scan all of these documents and it will extract the text out of it. through optical character recognition.



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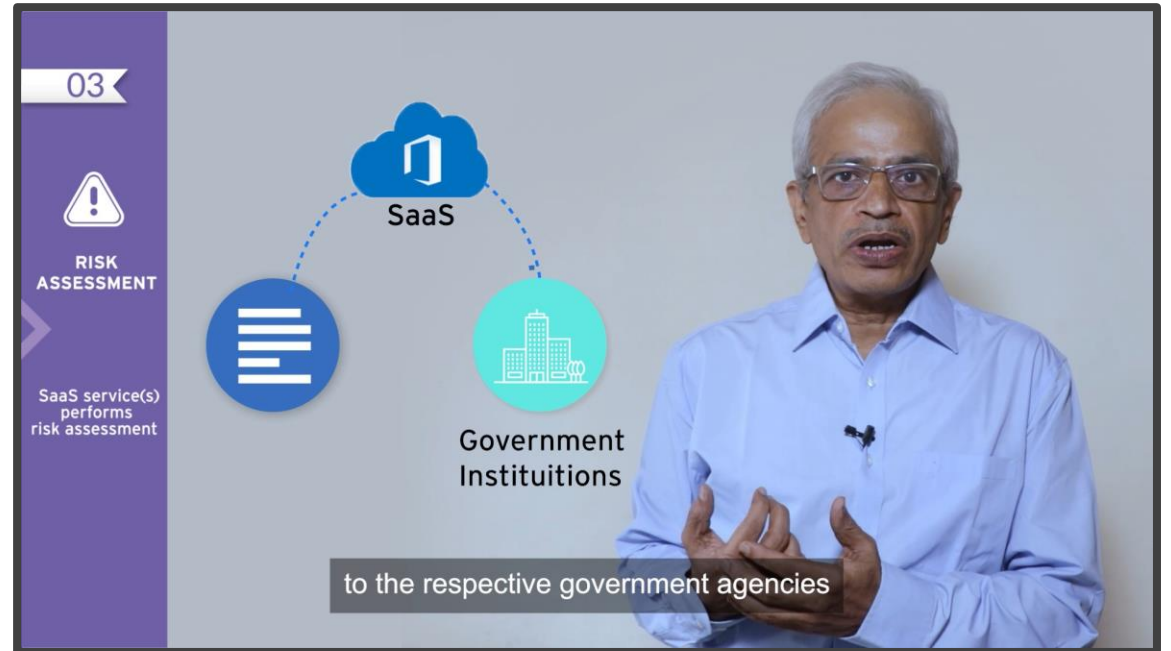
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The moment that is done the system is able to read what is there in those documents and they are able to understand the data related to each document.



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And that data is then sent through another Azure service to the respective government agencies for verification. so my Aadhaar details can be verified my PAN details can be verified or all of these things can happen online.



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The system automatically fills up a form which again can be done with an application sitting right on Microsoft Azure



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and then that document is sent for e-stamping through another Azure service which would you know which would take care of the stamping of the document the value which has to be paid to the government

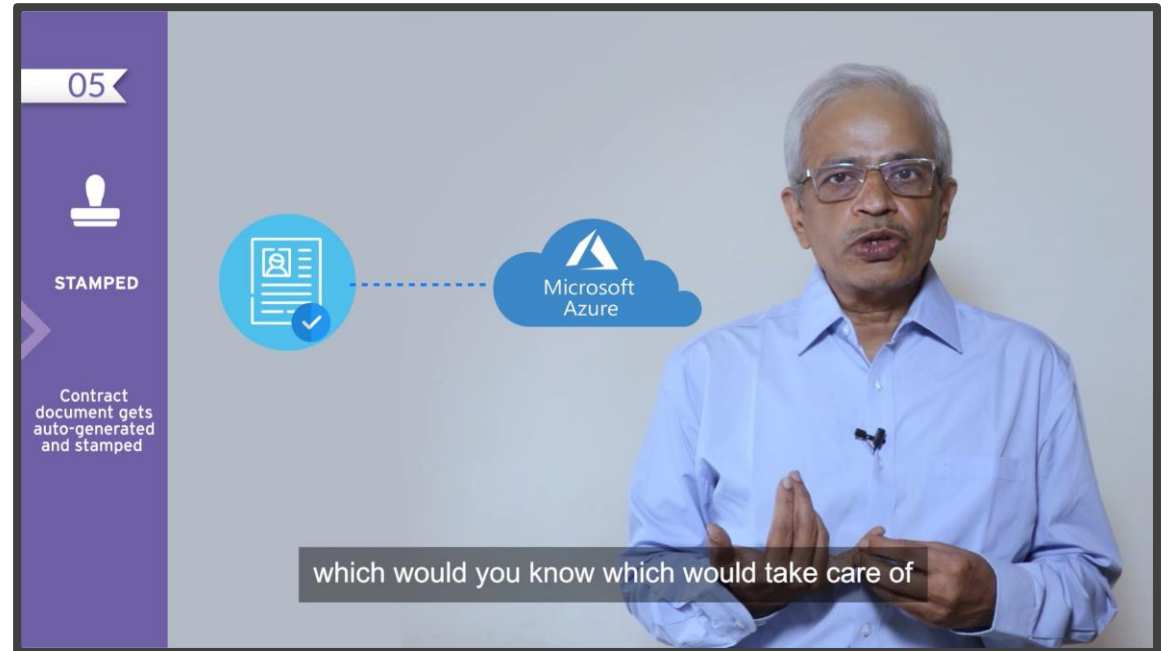
05

STAMPED

Contract document gets auto-generated and stamped

Microsoft Azure

which would you know which would take care of





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The form is sent online to the customer the customer doesn't have to fill in their name, the date of birth etc. because that information is already there additional small incremental information

06

Microsoft Azure

APP

Final application document and the contract is sent by Microsoft Azure based app to the customer

in the document that is already keyed in.

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and also then e-signature service sitting on Azure gets activated the customer is simply required to electronically sign on that particular form

07

DIGITAL SIGNATURE

The customer signs the contract and documents with the help of Microsoft Azure based digital signature service

Microsoft Azure

gets activated the customer is simply required to

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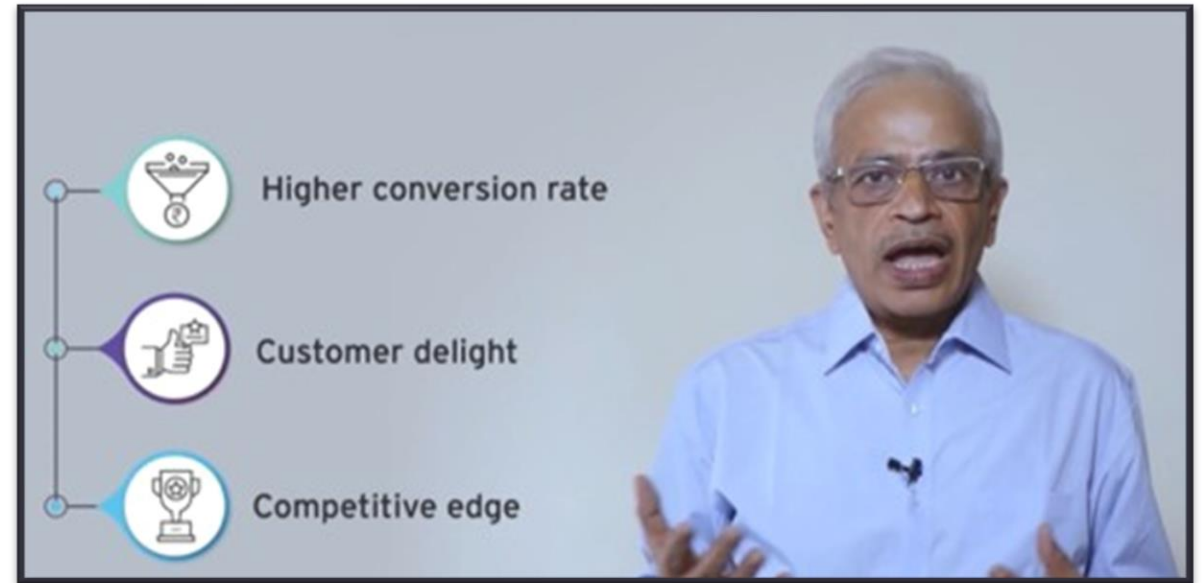
so this whole process becomes completely digital, completely electronic and it happens within a few minutes while the customer representative is having a cup of tea with the customer, this whole process can get completed.



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Look at the transformation that is possible with this process which typically takes several days is now going to be taking just a few minutes and with this it's not only the banks will be able to save a lot of cost and resources because they very little effort is wasted and very little time is spent but it also helps them provide excellent customer experience and bases that experience, they would be able to get a much significant competitive advantage compared to their peers.



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Example 2: Microsoft Azure improves quality and speed of compliance processes

## Example 2

**Microsoft Azure**  
improves quality and speed of  
compliance processes

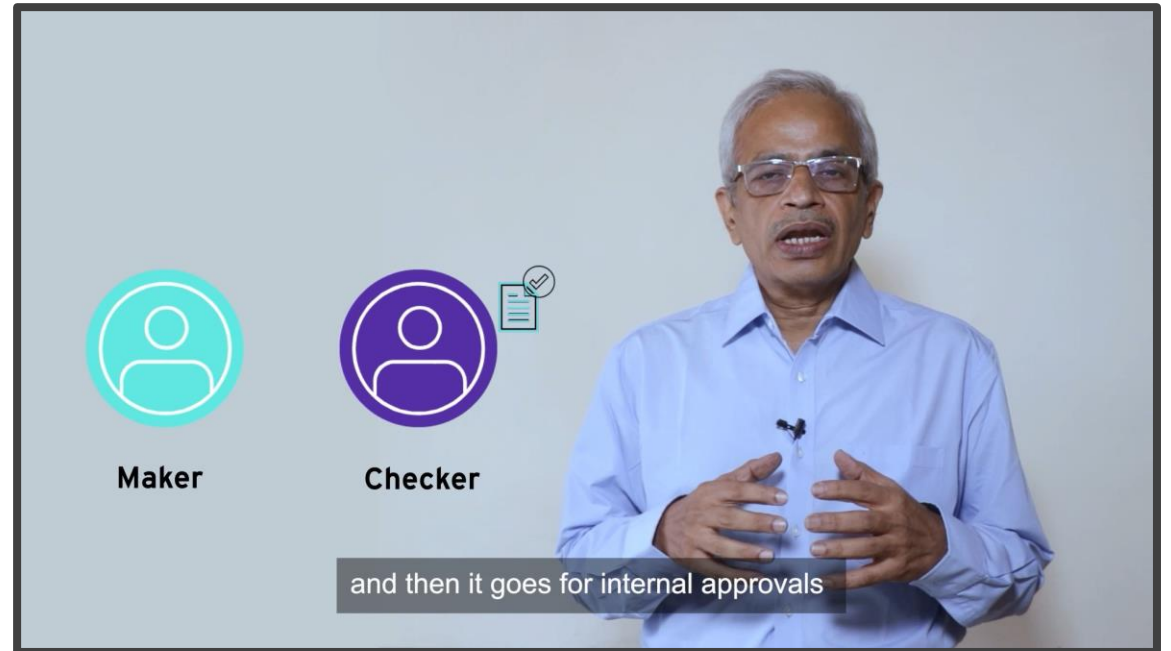
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This relates to the regulatory compliances which are required by all BFSI companies for example RBI requires banks to submit certain reports and returns on scheduled basis this could be required on a weekly, fortnightly, monthly basis. Similarly, in insurance sector IRDA might require insurance companies to submit certain returns and reports on a scheduled basis



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Typically, this requires a lot of data collation from multiple systems and multiple sources it could be sitting in multiple banking systems and also different branches different departments also would be involved in this in terms of this information to be collated. fill it up in Excel sheet and once those information are collated then, they would do the compiling they would do the processing. And then if there are any accuracy or inaccuracies or errors, for that it is required to be a maker checker process. So, one person creates it another person checks it and then it goes for internal approvals and once the rap-report is ready then it is sent out to the regulators

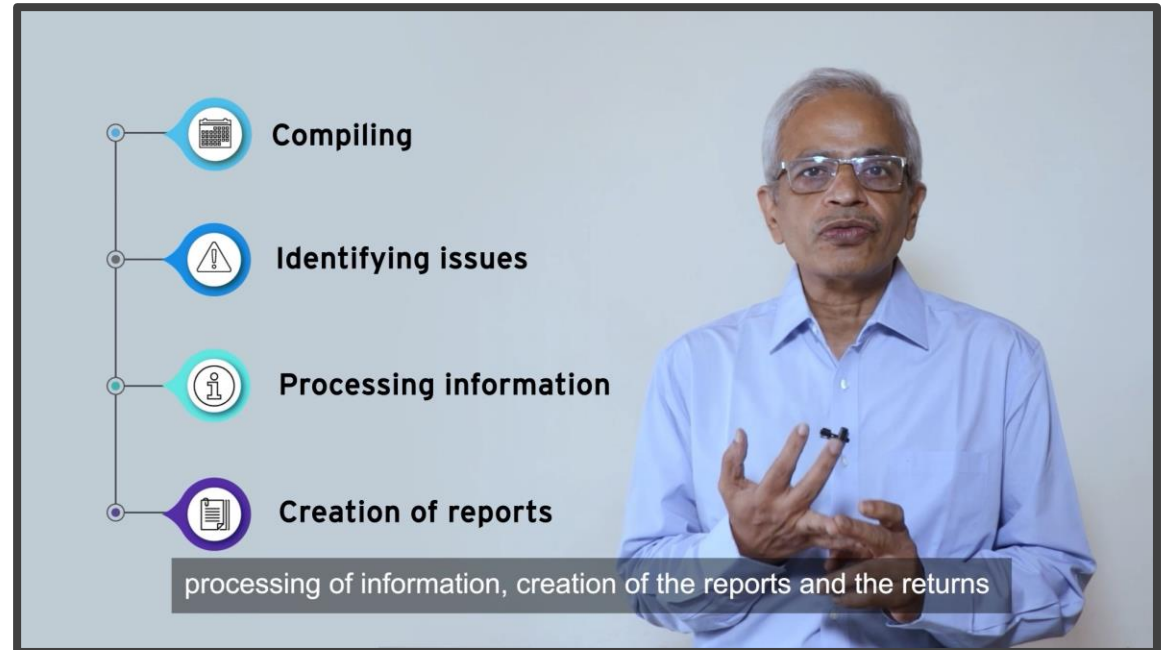




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This again is a very effort intensive process it requires people to spend a lot of time and also it requires redundancies so that you don't make errors. Third, despite of all of these redundancy there is still a chance of an error because this is this is eventually, a manually created process. This is where when you look at Microsoft Azure it can you know transform the whole process by simply using a robotic process automation approach.

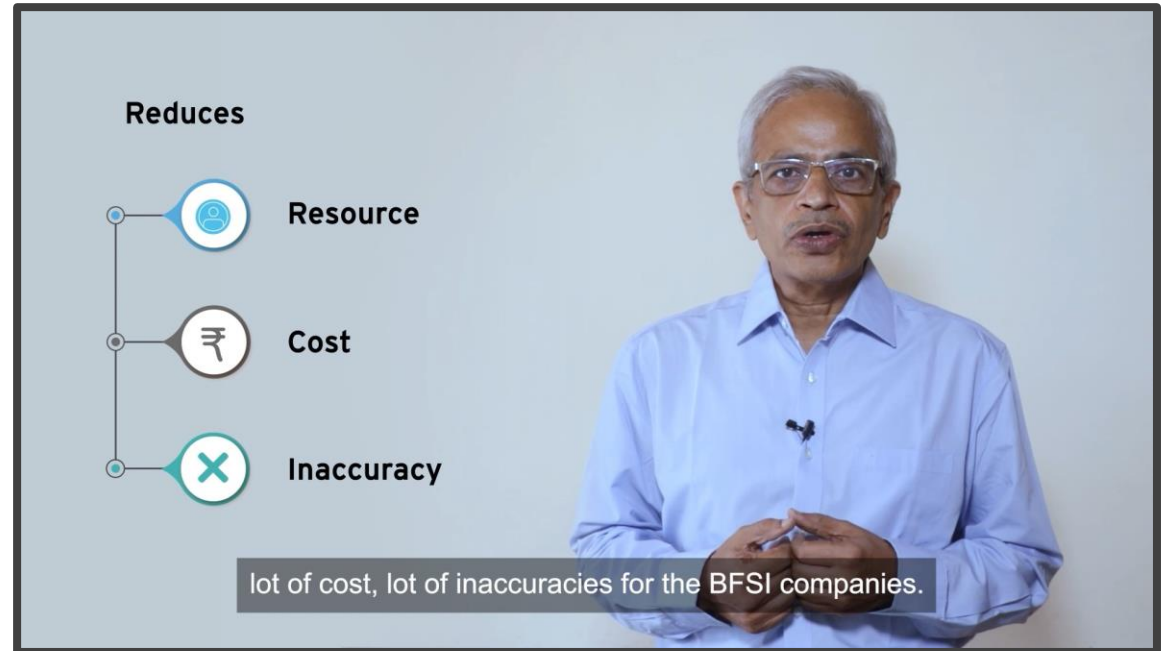
Where, every activity which a person is performing can be done by a bot. So, bot would do the collation of information from the various systems. the bot would have the rules defined based on it, it will know if there is any exception it would trigger the right side of people for them to take care of those exceptions





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So, entire compiling, identifying of any issues, processing of information, creation of the reports and the returns can all completely be done with the help of a robotic process automation Bot which is supported on Microsoft Azure and then this report actually does not even need to go for approval because the accuracy is taken care of all the information you can be rest assured is accurate because no human involvement is there.



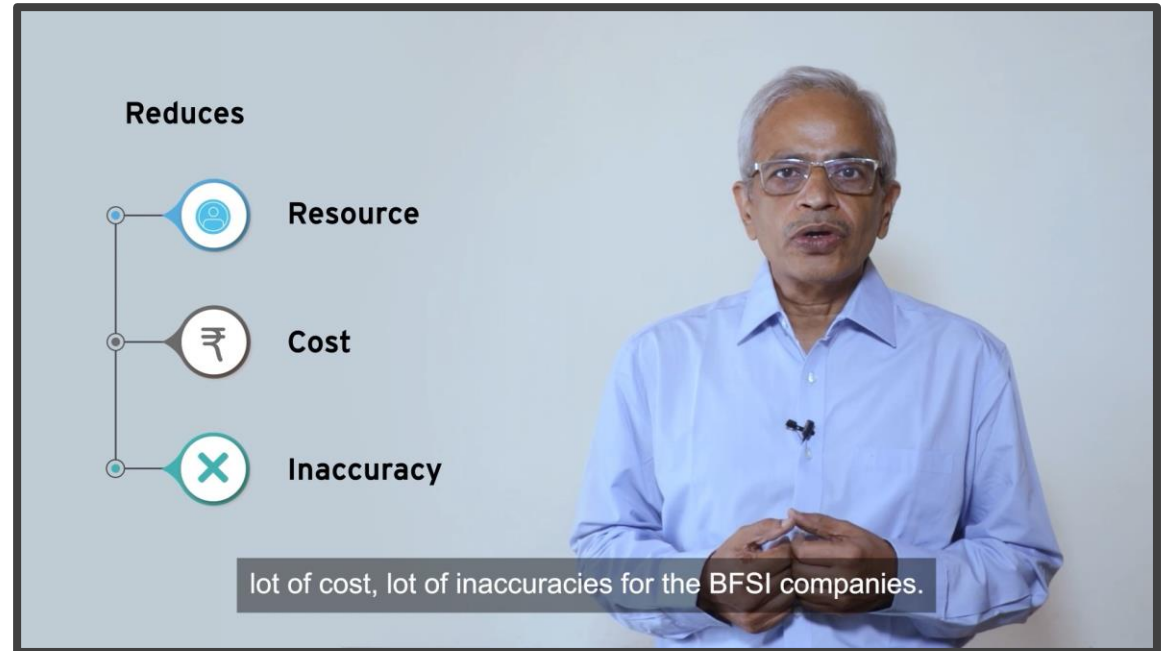
**Reduces**

- Resource
- Cost
- Inaccuracy

lot of cost, lot of inaccuracies for the BFSI companies.

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Still, if it requires to be taken for approval it can be electronically approved. And then, the final report could be sent out to the regulatory authorities. Again, this whole process which you would normally take several people's involvement and several man days of involvement can happen within a few minutes time and therefore it can save a lot of resources, lot of cost, lot of inaccuracies for the BFSI companies



**Reduces**

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lot of cost, lot of inaccuracies for the BFSI companies.

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YES BANK adapts the futuristic customer with Microsoft Azure Cognitive Services YES BANK has been reinventing itself with technology over last 15 years.

The bank has over 1,150 branches across India and its portfolio comprises of corporate, retail, and SME banking, covering financial markets, investment banking, corporate finance, wealth management and related areas

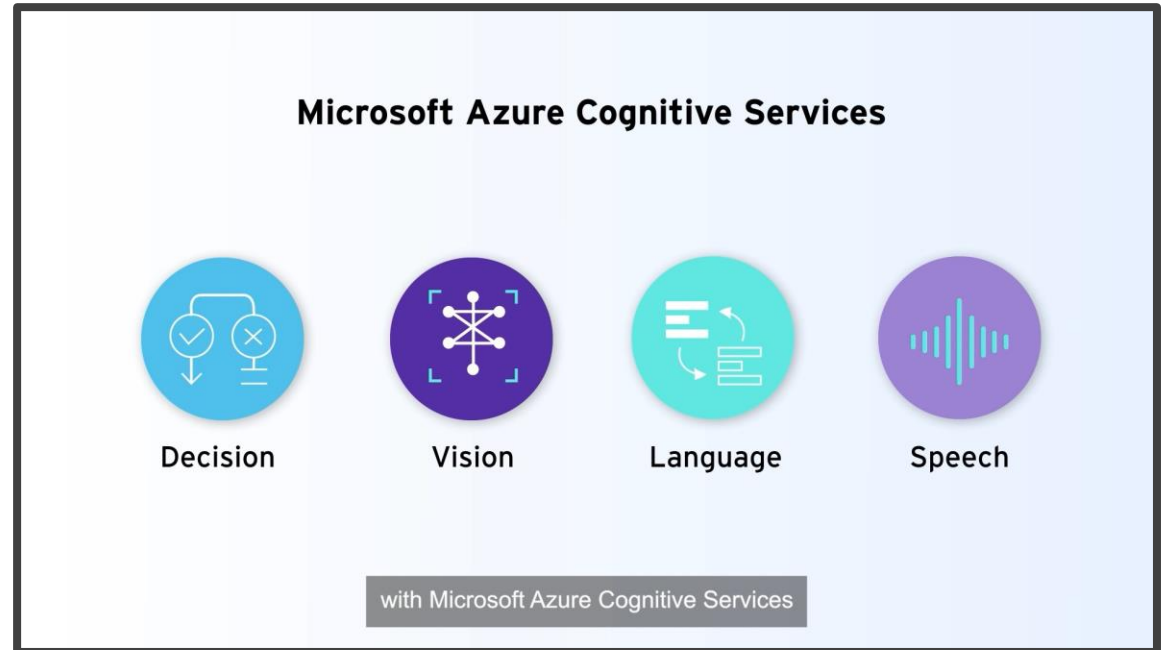
## Case Study 1

**Yes Bank,  
India**

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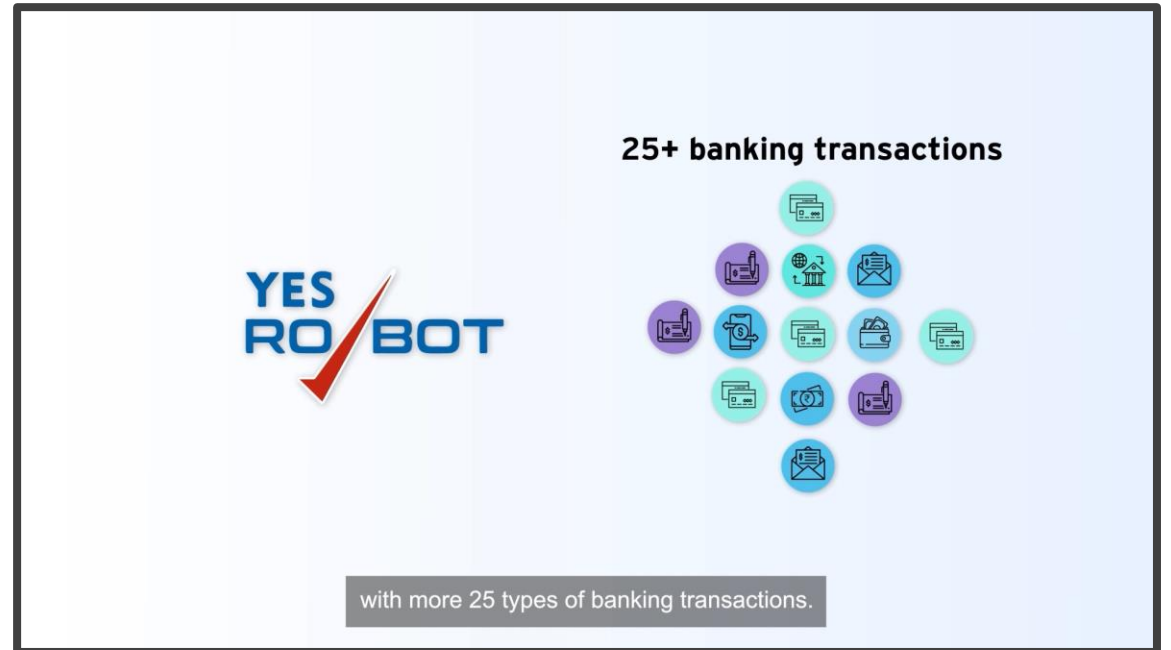
Customer queries were often repetitive and took considerable time for human operators to respond. YES Bank started exploring opportunities to decongest incoming query traffic and provide quick answers to the customers. Use of technology to ease the load of customer support executives and a simple way to enhance the customer experience around interacting with the bank or enabling a conventional transaction



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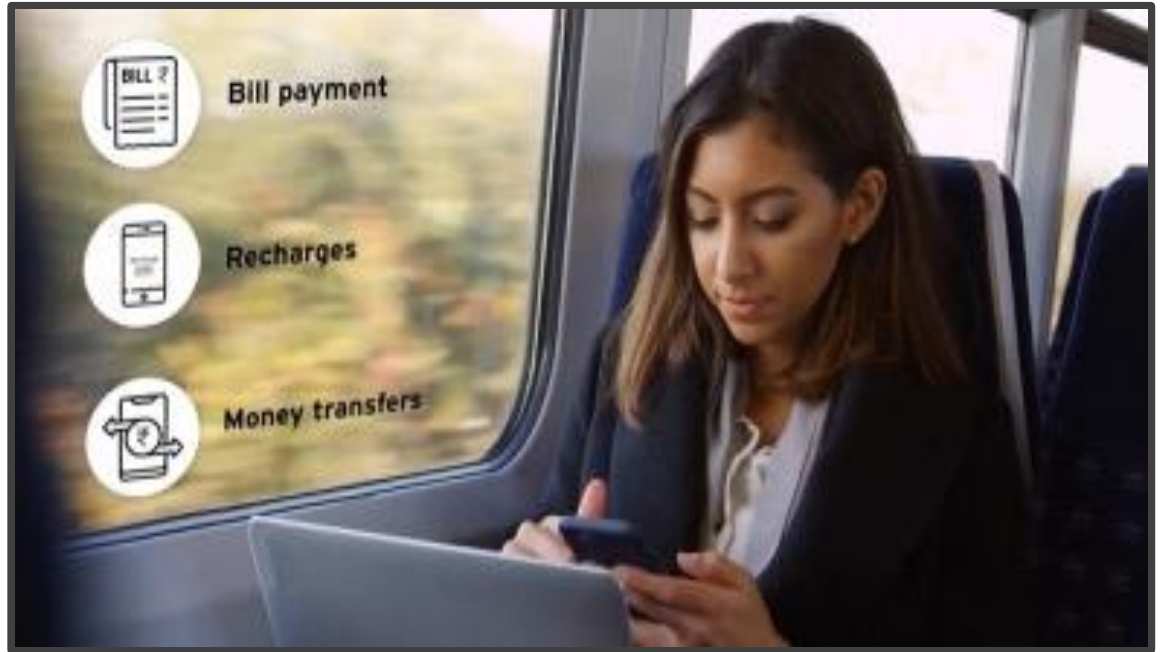
To better serve its customers the bank developed YES Robot and Azure AI powered 24/7 personal banking assistant. The YES Robot helps customers with more 25 types of banking transactions. It checks the eligibility and helps the customers and prospects apply for over 65 banking products including loans with real-time relationship manager assistance



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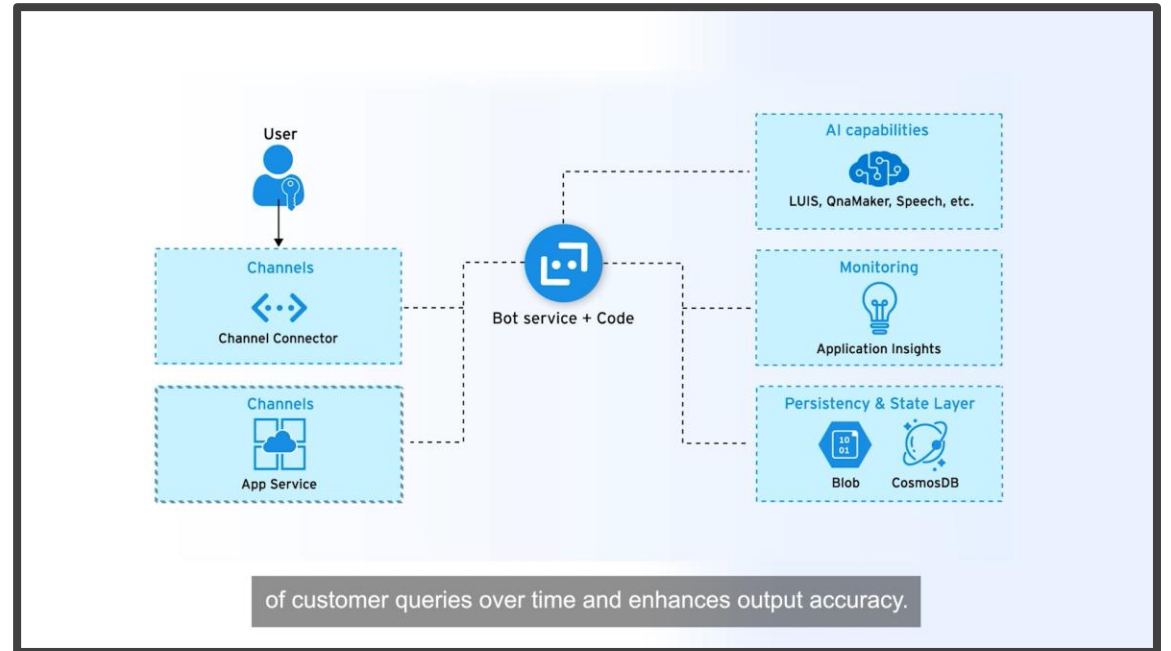
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Not only, can customers chat with the bot to find answers to the queries, they can also perform several financial transactions like bill payment, recharges and money transfers. Features, like, managing credit cards and booking deposits via a chat bot are unique across the banking industry. and are widely accepted by the customers



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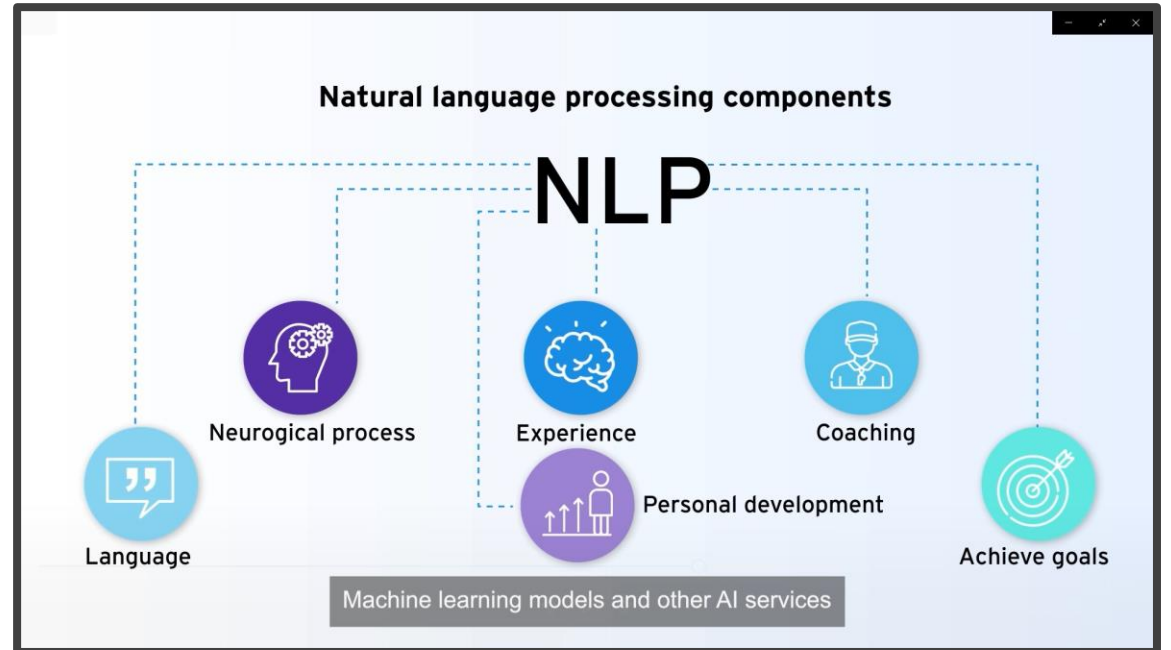
The bot with its domain vocabulary feature integrated with LUIS has a repository of industry related terms phrases and business intelligence that helps effective learning of customer queries over time and enhances output accuracy. The bank is also planning to extend the chat bot capabilities for its partners, paving the way for impactful customer service





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YES Bank is focused on building a holistic AI ecosystem equipped with Natural Language Processing Machine learning models and other AI services Yes Bot is a round the clock banking assistant developed using the Azure's cognitive services Customers can launch the chat bot on the social media platforms such as Facebook as well.



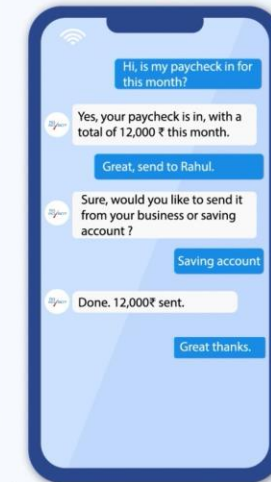


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Yes Robot delivers faster resolution than the conventional service desks. It handles more than half a million interactions every month with over 90% accuracy

Yes Robot has taken off a significant load from the customer service teams and improved the customer satisfaction. Bank has recorded 30% growth in transaction volume and expects accelerated growth in future as bank adds more banking services to the bot.



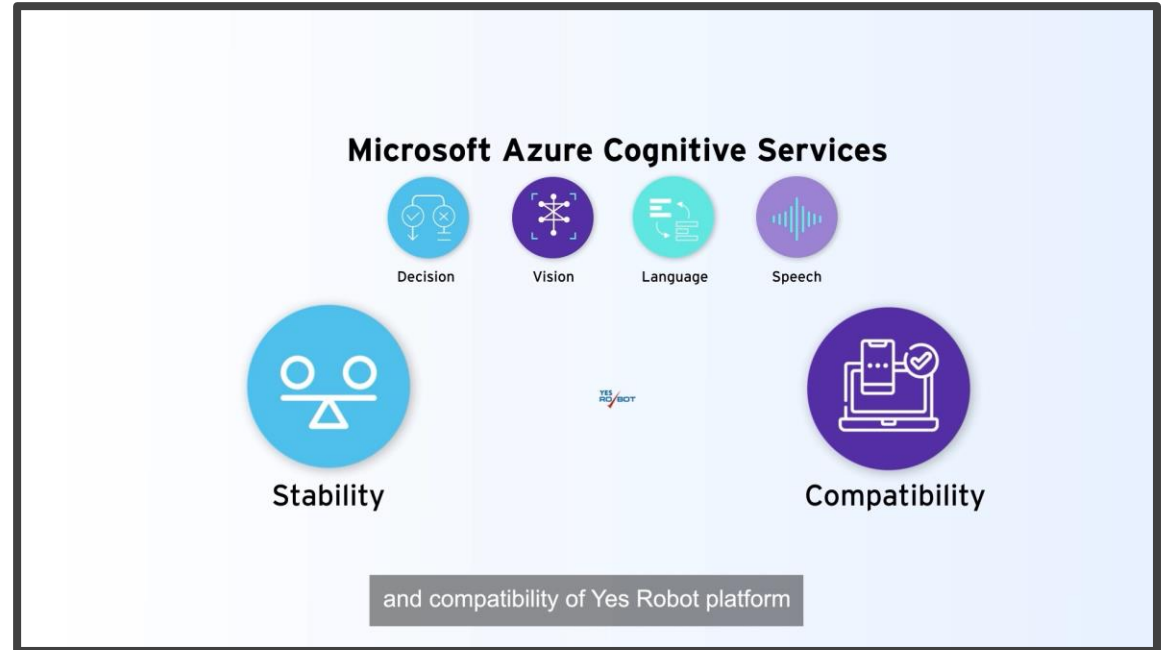
with over 90% accuracy.

**5,00,000  
Interactions  
per month**

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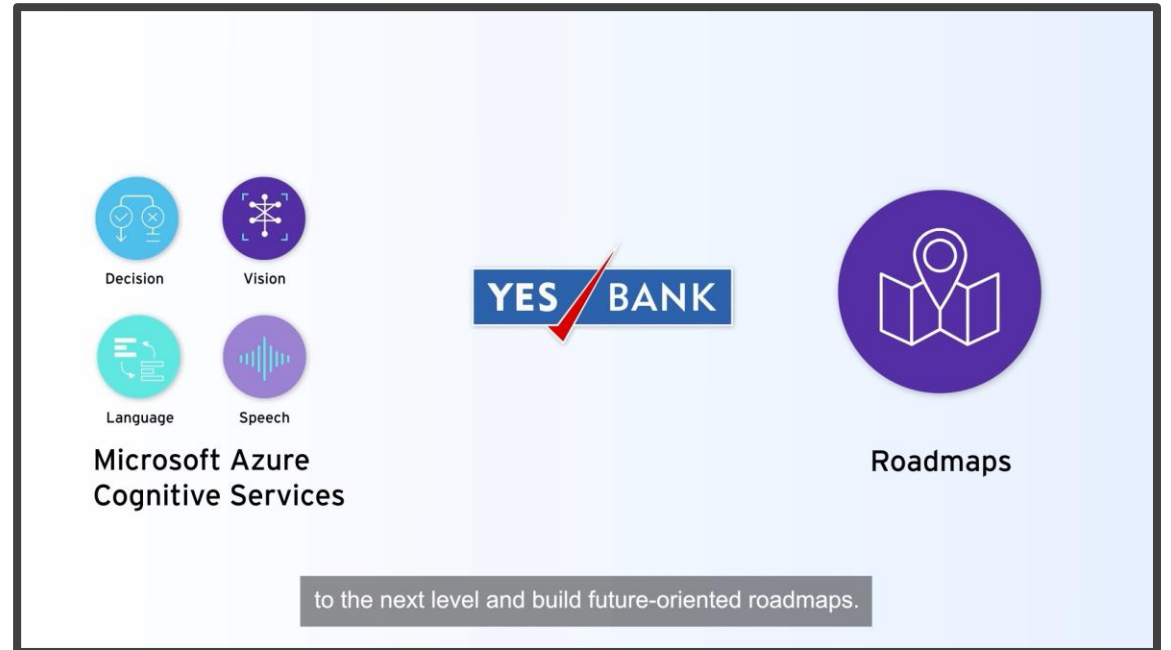
Microsoft Azure cognitive services have enhanced the stability and compatibility of Yes Robot platform which includes efficiency in handling user query variations accuracy in responding to user queries and faster speed of adding new features and time to the market.



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The platform is future-ready for integration with other cognitive tools and the bank plans to integrate features such as voice based commands, interfacing with Azure data lake to further enhance user experience. Leveraging Microsoft Cognitive Services, of taking a conventional user experience to the next level and build future-oriented roadmaps



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Standard Bank is Africa's largest bank by assets. Headquartered in Johannesburg, South Africa. Standard Bank is deeply involved in trade both on the African continent and beyond.

## **Case Study 2** **Standard Bank,** **South Africa**

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How a bank in South Africa is leveraging Azure Cognitive Services (AI) and Azure Form Recognizer, Standard Bank has reduced its cross-border payments registration and processing time significantly.

Making cross-border payments in South Africa can be lengthy and complex particularly for the banks processing the transactions. The manual due-diligence in cross-border transactions began absorbing too much staff time the bank needed a new way forward. Using Form Recognizer from the Azure Cognitive Services reduced its cross-border payments registration and processing time significantly.

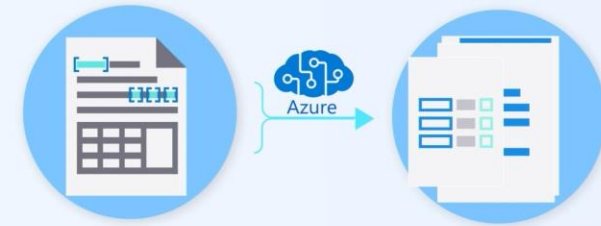


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To pioneer a new way forward in order to bring an automated time-saving solution to life Microsoft Azure Forms Recognizer and the vision API's helped to save the countless hours Now, the registration process and document classifications are instant and totally automated.

## Forms Recognizer from Azure Cognitive Services

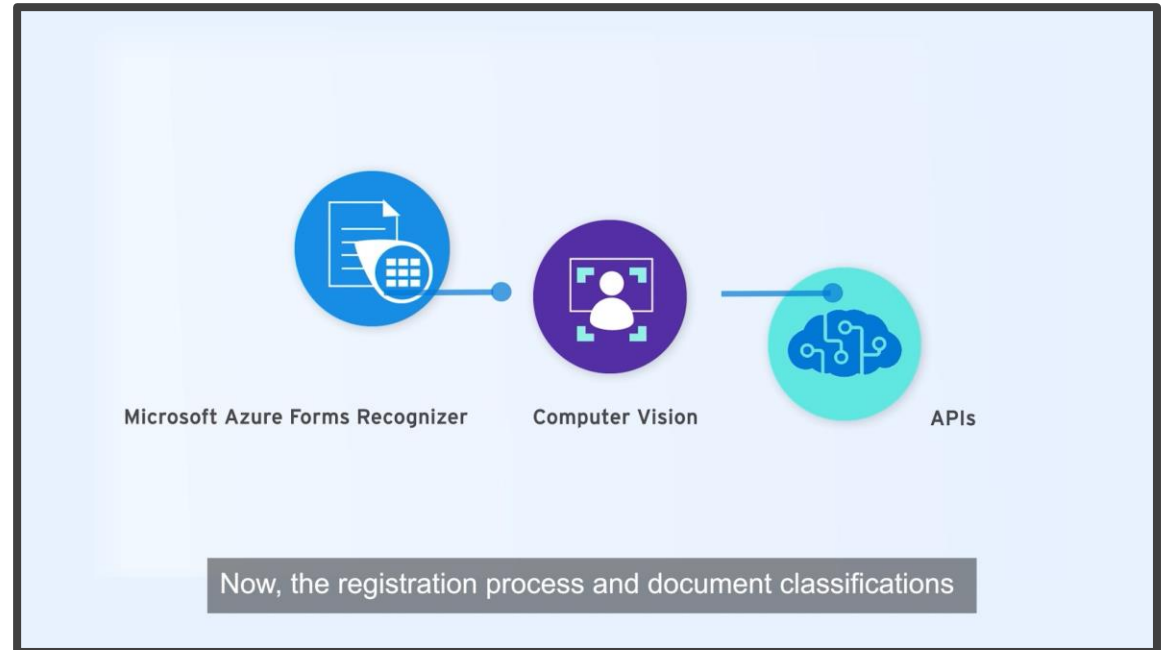


reduced its cross-border

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A major portion of the required data are pre-populated in the bank system ready for staff to validate. Bank started saving time on every transaction. Instant payment registrations have been first benefit from a client perspective as payments are received on the bank system instantly.



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But, besides the quicker turnaround times, capturing reduced number of data elements by the staff, increasing the quality of the output. This resulted in greater satisfaction for clients and the employees





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Another example of how a Dubai based bank leveraged mobile banking app that empowers millennials to take charge of their lives, money and investments using Microsoft Azure.

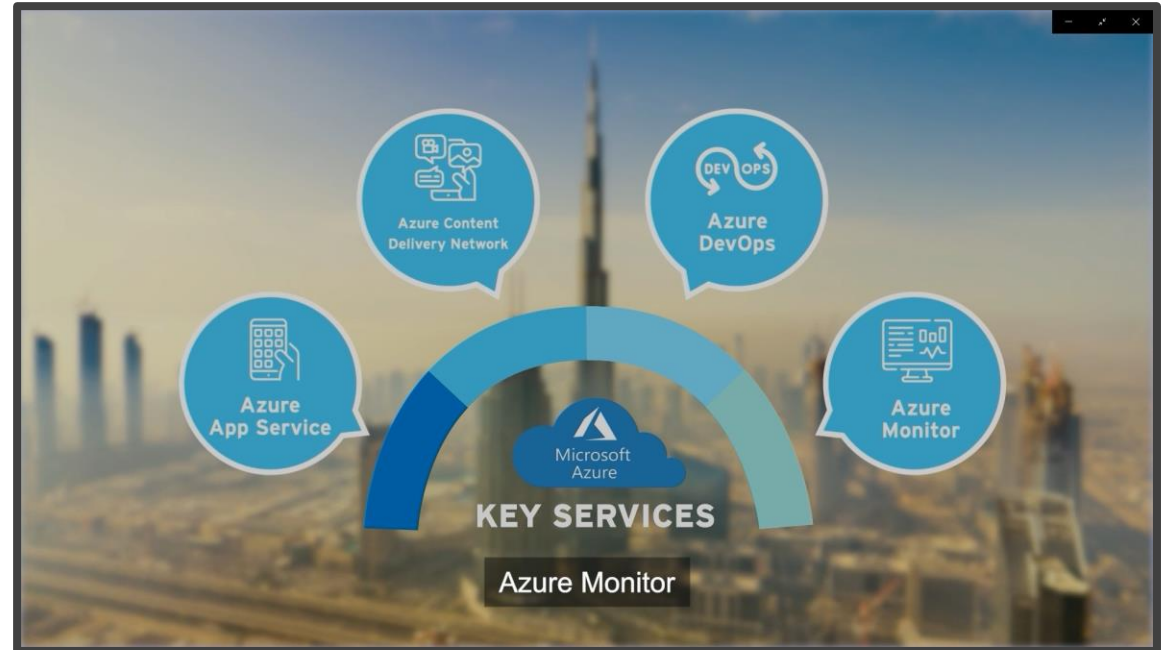
**Case Study 3**  
**Emirates NBD,**  
**UAE**

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Some of the key Azure Services used are

- ▶ Azure App Services
- ▶ Azure Content Delivery Network
- ▶ Azure DevOps
- ▶ Azure Monitor.



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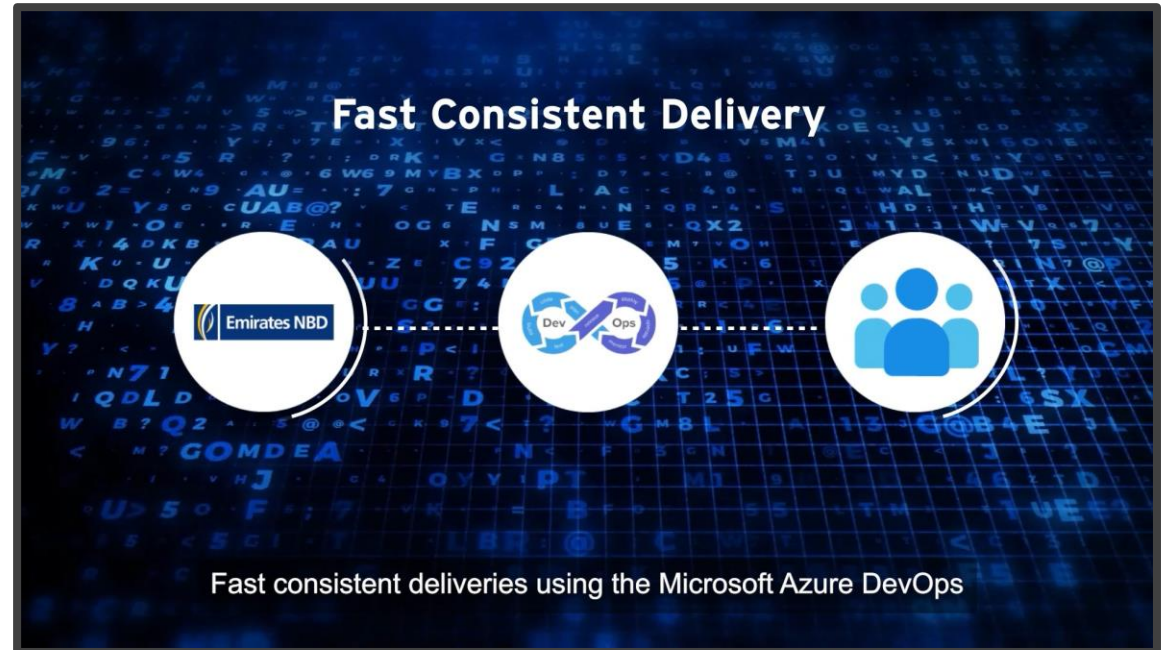
Leveraging the best of 21st century technologies, Emirates NBD, one of the UAE's largest banking groups built a mobile banking app to cater its higher-profile clients. The bank uses a Microsoft Excel-based revenue simulator which provide instant insights into customer portfolios enabling them to make informed financial decisions that match their lifestyles.

Emirates NBD has made its mission to make customer lives simpler by providing convenient access to relevant offers services based on timely insights focused on customer centric banking, the bank's mobile App was launched as a digital only platform. The App provides a complete mobile banking experience. embedded in customer hobbies and interests



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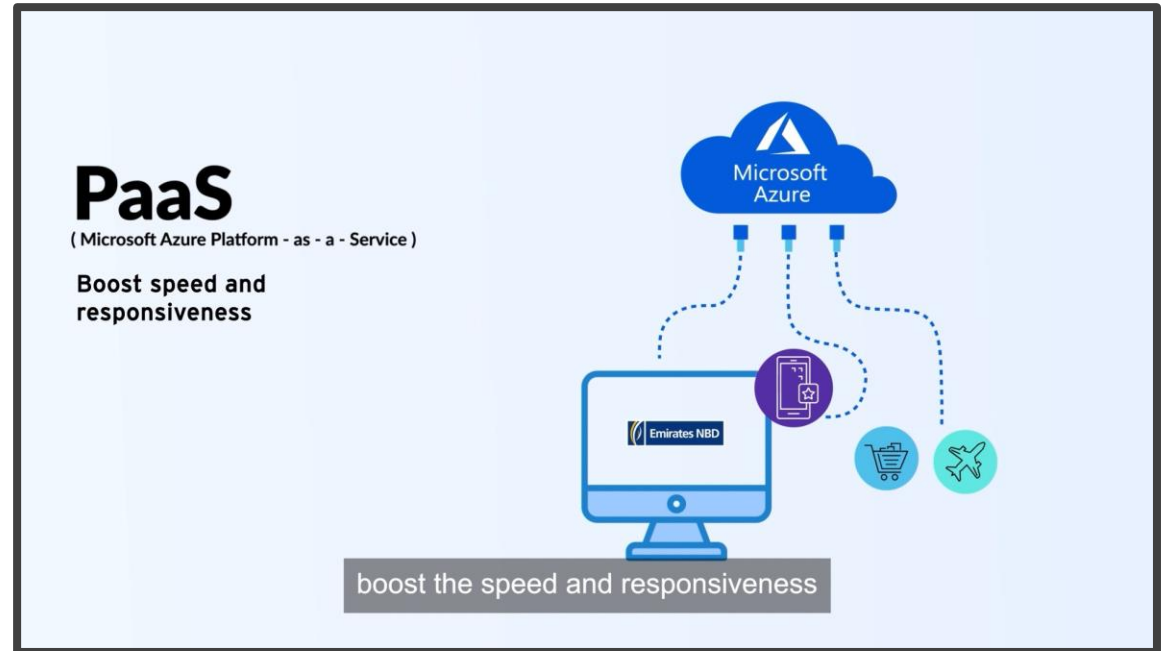
Fast consistent deliveries using the Microsoft Azure DevOps allowing it to deliver and run all the campaigns on the fly the Content Delivery Network enables highly secure and reliable delivery and acceleration of all the necessary app contents to the end users, enhancing the performance and the scale. It just takes 2 minutes to sign up for this app



# Digitization & Automation in Banking & Financial Services Industry

App offers unprecedented hyper-personalization. The one-stop app communicates with third-party services in real time. By using Azure, any required integrations can be easily implemented. With a fully managed PaaS offering, Azure App Service and a smart caching technology boost the speed and responsiveness resulting in a seamless user experience.

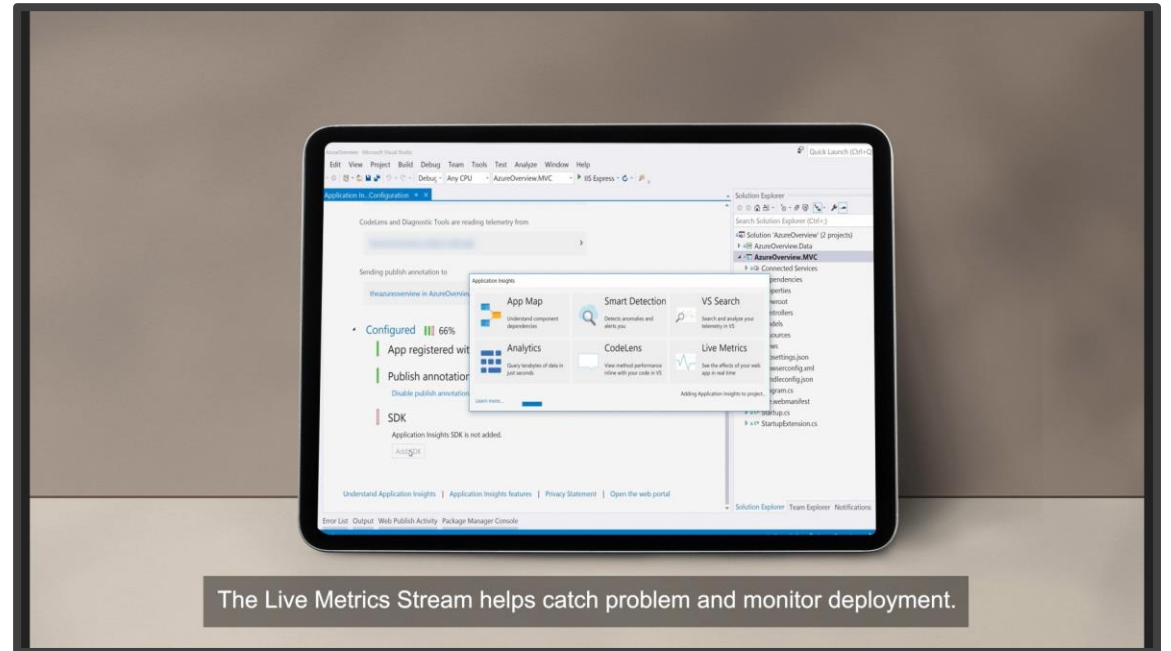
Azure now provides data residency on the Azure UAE regions. Minimizing latency, while bolstering security and compliance features and the services. Along with disaster recovery and business continuity benefits with two geographically paired datacenter regions.



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With over 10,000 new users every month, Azure provides the instant scalability to support growth and the company's never ending enhancements.

With Azure Application Insights everything is self managed and tracked. The Live Metrics Stream helps catch problem and monitor deployment. Apps perform their best even when the demand changes while ensuring efficient cost management by optimizing hardware expenses. which is exactly what bank was looking for when running campaigns through the app



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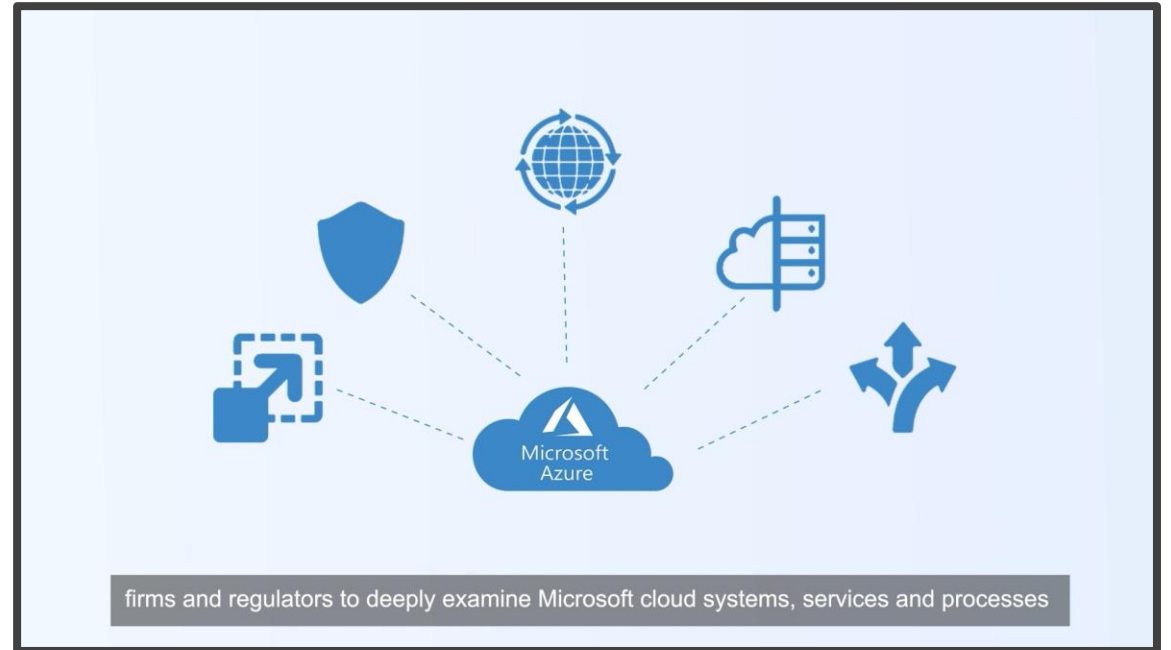
Azure is opening avenues for implementing Artificial Intelligence. Microsoft Azure helps you to modernize and protect your financial software systems rapidly and comprehensively, all while offering customers a more proactive and financial experience. Microsoft Azure AI services substantially reduce the time for applications development and rolling out it to the customers.

## Key Takeaways



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The key considerations for many customers choosing Microsoft Azure for the financial institutions is its significant focus on the Microsoft regulatory compliances. Microsoft's Financial Services Compliance program is a unique program that allows firms and regulators to deeply examine Microsoft cloud systems, services and processes bringing transparency into Microsoft cloud operations.





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## CALL TO ACTION

### Reference Links

1. [Implement FinOps for Azure](#)
2. [Azure for Financial Services | Microsoft Azure](#)
3. [Amazing things in Financial Industry with Azure](#)
4. [Azure for banking and capital markets](#)

#### Watch

Azure webinar series

<https://info.microsoft.com/ww-ondemand-implement-finops-for-azure.html?lcid=en-us>

#### Visit

Azure for Financial Services | Microsoft Azure

<https://azure.microsoft.com/en-us/industries/financial/#overview>

Amazing things in Financial Industry with Azure

<https://azure.microsoft.com/en-in/resources/customer-stories/?term=azure&industry=banking-capital-markets>

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