

CENTRAL BANK OF EGYPT
Egyptian Banking Institute



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JANUARY 2025

Hyper-automation in Banking

Current Trend



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Concept & Definition:

Today the financial services sector is undergoing a major shift in the era of technological progress. Hyper-automation technology is at the heart of this change, as it brings numerous benefits like precise and fast banking operations. This pioneering method brings together artificial intelligence, machine learning, and robotic process automation which leads to a robust system that is more efficient and sustainable. Banks must continue to expand their competitive edge and meet the ever-changing customers' demands, and thus the use of hyper-automation is the only way left to stay alive and prosper in a digital-first world.

Adapting hyper-automation in the banking industry is a critical and extensive task that makes every level of the industry involved, starting from streamlining the back-office operations to improving customer service experience. Through the use of hyper-automation, banks will be able to stay ahead of the curve by ensuring that they have the upper hand in the industry and, are well placed to meet their clients' increasing needs.

Hyper-automation Vs. Automation: The Difference

Hyper-automation goes beyond traditional automation. It is accomplished through advanced technologies that automates more complex and intelligent tasks. Traditional automation focuses only on how to automate repetitive, and simple tasks while hyper-automation focuses on automating the entire business processes not just standalone functions.

Steps to Implement Hyper-automation:

- **Recognizing the Scope of Automation:**

First take the time to review the existing business procedures within the organization. Work with different teams and departments to identify which processes and activities are redundant, time-consuming, and subject to errors. Employ process mapping techniques to ensure that the entire workflow is captured so that improvement areas can be identified.

- **Evaluating Potential Benefits:**

Hyper-automation provides more benefits than just efficiency. Consider accuracy, efficiency, and how much the customer's experience is enhanced. Whenever it is possible, quantify these benefits in order to provide a solid case of why implementation of hyper-automation is needed. Industry benchmarks and case studies can provide valuable insights into the potential return on investment.

- **Understanding Key Performance Indicators (KPIs):**

In order to monitor the success of the hyper-automation efforts, automated processes require defined KPIs that

Benefits of Hyper-automation for Banks:

correspond with the objectives of the automated processes. For example, these KPIs may include task completion time, error rates, customer satisfaction's scores. Be sure to clearly define ways in monitoring and measuring these KPIs, to enhance accountability and improvement.

- **Align hyper-automation goals with business goals:**

Hyper-automation should be viewed as a strategic initiative that aligns with overall business objectives. It is important to work closely with key stakeholders such as senior management and department leaders to ensure that hyper-automation objectives align with the organization's vision. This alignment helps ensure that advanced automation efforts add real value to organizational growth, and receive the support and resources they need from top-level decision-makers.

- **Ensure compatibility and integration:**

When technology is introduced, make sure it can be seamlessly integrated into existing systems. Compatibility with an organization's IT infrastructure is critical to avoid disruption. Integration capabilities should cover information flow and process interactions.

- **Pilot tests and simulations:**

Before full implementation, run pilot tests of the automated workflow to identify any potential inefficiencies. These tests help resolve any issues, and allow to make necessary adjustments before deploying. Simulations can predict how automated systems will behave under various circumstances. This ensures reliability when fully integrated into operations.

- **Continuous monitoring and improvement:**

Continuously monitor the performance of the automation processes in real time using dashboards, analytics tools to track key indicators and identify deviations from the expected results. Real-time monitoring allows for quick problem resolution and maintenance of desired performance levels.

- **Improve customer experience:**

Automated systems can handle large volumes of customer inquiries and transactions quickly and efficiently. By providing faster and more customized service, this can lead to increased customer loyalty and higher satisfaction levels. For example, chatbots can instantly resolve common issues. This allows human agents to handle more complex queries.

- **Accuracy:**

Hyper-automation increases the accuracy and reliability of banking processes. Automated systems can perform complex calculations and process large amounts of data quickly and accurately. It reduces the risk of errors and improves the accuracy of financial reports.

This increased accuracy is important in the banking sector in

which the slightest error can have a significant impact.

- **Cost reduction:**

By automating repetitive tasks, banks can significantly reduce operating costs. This is especially essential in back-end operations where automation can handle high volumes of routine tasks more efficiently. For example, automating the loan process can expedite approvals and reduce administrative costs.

- **Regulatory Compliance:**

Banks face strict regulatory requirements. Hyper-automation helps organizations stay compliant by automating compliance monitoring, reporting, and auditing functions. It helps ensure that processes meet legal and industry standards, reduce the risk of regulatory violations and associated penalties. Automated compliance allows for real-time monitoring and rapid adaptation to new regulations.

- **Agility and scalability:**

Hyper-automation enables scalability by simplifying processes, automate departments and systems which in return enabling banks to respond and adapt quickly to market changes, and customer needs. This ensures that the bank remains competitive. The flexibility provided by hyper-automation allows banks to scale up or downsize operations as needed without affecting efficiency or service quality.

- **Personal Marketing:**

Banks are leveraging hyper-automation to analyze customer data. This allows for the creation of marketing campaigns and product recommendations that are tailored to each individual. This personalized approach increases customer engagement and opens up cross-selling opportunities. This leads to more efficient and profitable interactions.

- **Data security and privacy concerns:**

Too much automation creates data security risks and privacy concerns. It is important to have strict security measures in place and follow regulations. Investing in advanced security tools like end-to-end encryption and multi-factor authentication is substantial to protect sensitive data in automated workflows.

- **Cyber Security Threats:**

Banks must protect against potential cybersecurity vulnerabilities. This can lead to data breaches, fraud, or unauthorized access. It's substantial to invest in advanced cyber security measures, continuous monitoring, and regular updates to security infrastructure. For example, the use of

| Challenges

AI-powered threat detection systems can identify cyber threats in real time.

- **Complex integration challenges:**

Integrating hyper-automation technology into existing legacy systems can be complex as banks often have a mix of outdated and new systems. And it requires careful planning and execution to ensure smooth communication and information flow between those systems. Successful integration requires detailed analysis, customized solutions, and sometimes even updating legacy systems to support new technology.

- **Operational disruption:**

By fully depending on technology, operational disruptions can occur. If the automated process fails or encounters an error, it may affect the bank's core operations. A robust contingency plan is required to deal with such situations. It should consist of a manual backup process, real-time error detection system, and rapid problem-solving mechanisms to reduce downtime and maintain service continuity.

- **Skills and training gaps:**

Hyper-automation relies on various technologies such as artificial intelligence (AI), robotic process automation (RPA), and machine learning (ML). To efficiently operate and maintain these systems, banks should invest in training their employees on how to efficiently deal with these technologies. A lack of qualified staff with expertise in these areas can be a challenge. Continuous education, upskilling programs, and hiring specialists are essential to bridge the skill gap and ensure smooth operation of automated systems. For example, partnerships with technology companies and educational institutions can help develop the required talent pool effectively.

Banking Sector Practices:

- **Bank of America:**

Bank of America implements hyper-automation by integrating robotic process automation (RPA) and artificial intelligence (AI) to revolutionize customer service. This approach significantly increases operational efficiency, reduces costs, and increases customer satisfaction. The success of this initiative highlights the potential of AI and RPA to improve customer service in the financial sector.

- **Goldman Sachs:**

Goldman Sachs uses advanced automation to strengthen its regulatory compliance framework. By deploying AI to analyze huge amounts of data communication, the bank can identify patterns that may indicate regulatory violations, thereby improving risk management and creating more secure financial environment.

- **JPMorgan Chase:**

JPMorgan Chase has launched its hyper-automation platform COIN (Contract Intelligence). The platform leverages machine learning (ML) to efficiently analyze complex loan deals, and guaranteed speed and accuracy without human intervention.

- **PNC Bank and Citibank:**

PNC Bank and Citibank have each invested in HighRadius, a B2B payments and accounts receivables software company. They have developed a platform using AI to automate tasks that would normally require human intervention. In addition to optimizing cash flow from credit billing, deductions, and payment processing.

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