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Volume 21, Issue 2

The Role of Automation and AI in Modernizing Municipal Tax Collection

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Municipal tax collection is an especially important component of local governance, supporting essential services through revenue generation such as public safety, education, infrastructure, and social services. However, the current tax collection process is fraught with inefficiencies and errors, which result in substantial financial losses and operational delays for tax collectors, mortgage servicers, and property owners alike.



Errors such as overpayments, double payments, and incorrect tax assessments lead to refund requests, which waste resources and complicate financial reconciliation. The solution lies in embracing automation and AI-driven technology, which can streamline the process, increase accuracy, and benefit all stakeholders involved.

There are many challenges faced by municipal tax collectors and mortgage servicers, however, advanced technology solutions, including automation and AI, can drive digitally transformative improvements.

Challenges in Municipal Tax Collection

One of the most significant challenges faced by municipal tax offices is the high potential for errors in tax assessments and collections. These errors are not only detrimental to homeowners and businesses but also place a heavy burden on local governments.

Overpayments, double payments, and incorrect assessments often occur due to outdated manual processes and lack of integrated systems. For example, tax assessments are often made based on incomplete or outdated property data, and human error during manual processing of payments and refunds further compounds these problems.

A single error, such as a property being incorrectly valued or a tax rate being improperly applied, can trigger a cascade of issues. Homeowners may overpay on their taxes or, worse, pay twice. When these errors are discovered, either through internal audits or complaints from property owners, the tax office is forced to issue refunds.

Many of these challenges stem from staffing issues and overall processes within the office. A recent survey of tax collectors found that 41 percent of respondents said their main challenges in collecting tax revenues include insufficient resources and staff, data management issues, and IT problems

during payment processing. As a result, another 28 percent said delinquent payments are a primary challenge.

In fact, the survey showed that less than 20 percent of respondents said their tax collection processing system was “very efficient”. Less than 10 percent of respondents said they were “very satisfied” with their current system.

The majority of respondents (28 percent) said they would like to see more simplified payment procedures created for their tax collection systems. Another 26 percent said they would like to see streamlined dispute resolutions mechanisms, along with an improved process for refunds¹.

Refund Processing: A Drain on Resources

Refunds are one of the most glaring inefficiencies in the current tax collection process. While refunds serve as a corrective measure for overpayments or erroneous tax assessments, they represent a significant waste of resources. Processing refunds requires time and labor, diverting municipal staff from more productive tasks. Moreover, issuing refunds is not merely a clerical task – it affects the overall budgeting and financial planning of local governments. Every refund issued delays the financial reconciliation process, leading to delays in closing accounting books for the fiscal year.

Furthermore, refunds can lead to a loss of public trust. Homeowners and businesses expect the tax office to be accurate. Frequent refund requests can erode their confidence in the municipality's ability to manage taxes effectively. This can lead to more scrutiny and, in some cases, legal challenges, creating additional costs for local governments.

The Complexity of Mortgage Servicer Involvement

The involvement of mortgage servicers adds another layer of complexity to the tax collection process. Many homeowners rely on mortgage companies to manage their property taxes through escrow accounts, where the mortgage servicer collects tax payments as part of the monthly mortgage payment. These servicers then disburse the tax payments to the local tax authority. Given the large volumes of payments involved, the potential for error is significant.

Mortgage servicers, like tax collectors, rely heavily on the accuracy of data. Any mismatch in payment amounts or tax due dates can result in late payments, underpayments, or overpayments. Inaccuracies in escrow tax accounting can lead to disputes between homeowners and servicers, compounding the problem further. For mortgage servicers, inefficiencies and errors in tax payment processing directly affect their financial operations, increasing administrative costs and potentially straining relationships with homeowners.

Escalating Complexity in a Changing Economic Climate

The potential reduction of interest rates in the near future, as predicted by many financial experts, may lead to an increase in mortgage refinancing. As homeowners refinance, new escrow accounts are established, and existing ones are closed or adjusted. This influx of new accounts and changes to existing ones will add a significant volume of additional transactions and paperwork for mortgage servicers to process.

Handling this surge of activity through outdated, manual processes will inevitably lead to more errors and delays. For tax collectors and mortgage servicers alike, ensuring that these additional transactions are processed accurately and efficiently will be critical.

How Automation and AI Can Improve Efficiency

The solution to these complex challenges lies in the adoption of automation and AI-driven technology. Municipal tax collectors and mortgage servicers have an opportunity to significantly improve their operational efficiency by embracing these advanced systems.

AI-powered systems can modernize the accuracy of property tax assessments. By using machine learning algorithms and advanced data analytics, these systems can assess property values more accurately by analyzing a wide range of factors, including real estate market trends, recent sales data, and even satellite imagery to detect improvements or changes to properties that may affect their valuation.

Automated systems can also streamline the collection process. AI-powered platforms can automatically calculate tax amounts, generate accurate tax bills, and track payments. This reduces the risk of errors caused by manual data entry or miscommunication between departments. These systems can also flag any discrepancies or potential errors, allowing tax collectors to address them before they escalate into costly refunds.

Reducing Refunds and Errors

With automation, the likelihood of overpayments or double payments is significantly reduced. Automated systems can match incoming payments to tax accounts in real-time, ensuring that homeowners and businesses pay the correct amount. This prevents the need for refunds, saving the municipality both time and resources. In cases where refunds are still necessary, automation can streamline the refund process by automatically processing requests and issuing payments, reducing delays and manual intervention.

Automation also ensures that the municipality's financial records are accurate and up to date, allowing for a quicker and more efficient year-end reconciliation process. Closing the books on time becomes easier when there are fewer outstanding refunds or discrepancies to resolve.

Enhancing Mortgage Servicer Efficiency

Mortgage servicers can also benefit from automation, particularly in managing escrow accounts. By partnering with online automation processing companies, mortgage servicers can ensure that property tax payments are processed accurately and on time. Automated systems can handle the large volumes of payments generated by escrow accounts, reducing the potential for errors and disputes.

These systems can also integrate with municipal tax systems, providing real-time updates on tax payments, due dates, and amounts owed. This level of integration ensures that mortgage servicers always have the most up-to-date information, allowing them to adjust escrow accounts as needed and avoid over- or underpayments.

Cost Efficiency Through Automation

One of the key benefits of automation for both tax collectors and mortgage servicers is the cost efficiency it provides. Automated systems can handle large volumes of transactions with minimal human intervention, reducing administrative costs. For municipalities, this means fewer resources spent on manual data entry, payment processing, and refund management. For mortgage servicers, automation can reduce the cost per household for processing escrow payments, especially as interest rate reductions lead to more refinancing activity.

These economies of scale will become increasingly important in the coming years. As more homeowners refinance their mortgages, the volume of tax payments processed through escrow accounts will increase, placing additional strain on servicers. By leveraging automated systems, servicers can handle this increased workload without a corresponding increase in administrative costs, ensuring that they remain efficient and competitive.

Ensuring Data Accuracy and Compliance

One of the biggest concerns for both tax collectors and mortgage servicers is ensuring the accuracy of their data. Incorrect data can lead to a host of problems, from overpayments and refunds to compliance issues and financial losses. Automated systems can mitigate these risks by providing real-time data validation and error detection. AI-powered platforms can flag discrepancies and alert users to potential issues before they become major problems.

Additionally, automated systems can help ensure compliance with local, state, and federal regulations. By providing accurate records and audit trails, these systems can demonstrate compliance with tax laws and other regulatory requirements, reducing the risk of legal disputes or penalties.

The Future of Tax Collection and Mortgage Servicing

As local governments and mortgage servicers continue to grapple with the challenges of tax collection and payment processing, the need for automation and AI-driven technology will only grow.

By embracing these advanced systems, municipalities can increase their operational efficiency, reduce errors, and save valuable resources. For mortgage servicers, automation offers a way to manage the growing complexity of escrow tax payments while ensuring accuracy and cost efficiency.

In the coming years, the widespread adoption of these technologies will transform the tax collection process, benefiting not only local governments and mortgage servicers but also homeowners and businesses. Automated systems will provide a level of accuracy, efficiency, and transparency that is impossible to achieve through manual processes. The result will be a smoother, more reliable tax collection process that serves the needs of all stakeholders while reducing the burden on local governments and mortgage servicers.

By embracing automation and AI today, municipal tax collectors and mortgage servicers can build a more efficient, cost-effective, and accurate tax collection system for the future.

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