

The Digital Transformation of Education in Tanzania: An Analysis of School Management System Adoption, Featuring Shule Soft and the Competitive Landscape

Executive Summary

This report provides a comprehensive analysis of the School Management System (SMS) market within the United Republic of Tanzania, examining the interplay between government policy, infrastructural realities, and the emergence of a vibrant local EdTech sector. The Tanzanian education landscape is at a critical inflection point, driven by a strong national vision for digital transformation, yet constrained by significant on-the-ground challenges. The adoption of SMS platforms is a key indicator of this transformation, revealing a market characterized by distinct segments, innovative local solutions, and a clear hierarchy of institutional needs.

The analysis finds that the primary and most demonstrable value proposition of SMS adoption in Tanzania, particularly within the competitive private school sector, is the optimization of financial and administrative operations. Local market leader, Shule Soft, exemplifies this trend, having achieved significant market penetration by delivering a platform that reportedly increases school fee collection from an average of 60-70% to over 90%. This focus on financial stability and administrative efficiency represents the foundational driver for SMS adoption, preceding the more aspirational goals of direct academic improvement.

The competitive landscape is populated by a range of homegrown providers, including Shule Soft, InfoTaaluma, Edupack, and Smart School Manager, each targeting different market segments through varied feature sets and business models. A key differentiator is the approach to accessibility in a country with a profound digital divide. Successful platforms are those built on a mobile-first strategy, incorporating both smartphone applications and offline SMS capabilities to engage parents and stakeholders across the connectivity spectrum. This is a direct response to an environment where mobile cellular penetration is near-ubiquitous, while internet and electricity access remain limited, especially in rural areas.

Significant barriers to widespread adoption persist, including the high cost of implementation, the digital skills gap among educators, and the infrastructural deficits in connectivity and power. These challenges create a vicious cycle, where the under-resourced public and rural

schools that could benefit most from the efficiencies of an SMS are the least equipped to adopt and sustain them. This risks widening the quality gap between well-resourced private institutions and their public counterparts.

The Government of Tanzania plays a pivotal role, acting as both a catalyst through ambitious policies like the National Digital Education Strategy and a market participant with its own Education Management Information Systems (EMIS). The opportunity for commercial providers lies in offering a superior user experience and operational tools that complement, rather than compete with, the government's macro-level data collection mandates.

This report concludes with strategic recommendations for key stakeholders. School administrators are advised to conduct thorough needs assessments, prioritizing systems that solve core administrative and financial challenges and offer robust local support. Policymakers should focus on bridging the infrastructural and skills gaps through targeted investments and public-private partnerships. For investors and EdTech providers, the greatest opportunities lie in developing highly localized, mobile-first solutions with flexible, modular pricing that can cater to the diverse needs of both the private and public education sectors in Tanzania.

Section 1: The Global Landscape of School Management Systems (SMS)

To understand the dynamics of School Management System (SMS) adoption in Tanzania, it is first necessary to establish a global baseline for the technology itself. An SMS is not merely a piece of software but a comprehensive digital ecosystem designed to serve as the central nervous system of a modern educational institution. Its value is measured in efficiency gains, improved communication, and the empowerment of data-driven decision-making. However, the path to successful implementation is often fraught with challenges that require careful strategic planning.

Defining the Modern SMS: Core Functionalities, Modules, and Architecture

A School Management System is a comprehensive, integrated software solution designed to streamline and automate the vast array of administrative and academic processes within an educational institution.¹ Its primary objective is to centralize operations, facilitate the efficient management of school resources, and enhance the overall educational experience for all stakeholders: students, teachers, parents, and administrators.¹

While the terms are often used interchangeably, it is useful to distinguish between a broad SMS and a more specific Student Information System (SIS). An SIS is a specialized tool focused primarily on managing student-related data, such as personal information, academic records, attendance, and grades.⁴ It forms the core data repository of any school. An SMS, in contrast, is a more holistic platform that typically includes an SIS as a central module but extends its functionality to encompass all operational facets of the school, including finance, human resources, library management, and transportation.⁴ Therefore, an SMS is more administrative and operation-centric, while an SIS is fundamentally student-centric.⁴

The architecture of these systems generally falls into three categories: cloud-based (Software as a Service or SaaS), on-premise, and hybrid. Cloud-based systems, which are hosted by the vendor and accessed via the internet, have become the dominant model due to their scalability, lower initial hardware costs, and ease of access from any location.² On-premise solutions require the school to host the software on its own servers, offering greater control but demanding significant in-house technical expertise and capital investment.² Hybrid models attempt to combine the benefits of both.

A comprehensive SMS is typically composed of a suite of integrated modules designed to handle specific functions. While the exact configuration can vary, a modern system generally includes the modules and features outlined in Table 1.

Table 1: Core Functionalities of a Modern School Management System

Category	Module	Key Features
Student Lifecycle Management	Student Information System (SIS)	Centralized database for student demographics, academic history, medical records, and contact information. ¹
	Admissions & Enrollment	Online application forms, application status tracking, automated enrollment, and course registration. ¹
	Attendance Management	Digital attendance tracking (daily, subject-wise), automated absence notifications to parents, and generation of

		attendance reports. ³
	Behavior & Discipline	Recording and tracking of disciplinary incidents and actions to monitor student conduct. ¹
Academic Management	Curriculum & Timetable	Class scheduling, teacher and room allocation, conflict prevention, and online access to timetables for students and staff. ¹
	Examination & Grading	Exam scheduling, online grade entry by teachers, automated calculation of averages and GPAs, and customizable grading formulas. ⁶
	Report Card Generation	Automated creation of customizable report cards and academic transcripts. ¹
	Online Learning (LMS)	Platform for uploading digital content, creating and submitting assignments, and facilitating blended learning. ⁶
Financial Management	Fee Collection & Accounting	Automated invoice generation, online payment gateway integration, payment tracking, and management of fines and concessions. ²
	Payroll & HR Management	Management of staff records, attendance, leave requests, automated payslip generation, and tax

		compliance. ⁶
Operations & Resources	Library Management	Digital cataloging of books (ISBN-based), tracking of book issuance and returns, and automated fine management. ²
	Transport Management	Route planning and optimization, vehicle tracking (GPS), and management of driver and student assignments. ⁶
	Inventory Management	Tracking and management of school assets and stock, such as lab equipment, books, and uniforms. ⁹
Stakeholder Engagement	Parent/Student Portals	Secure, role-based portals for parents and students to access grades, attendance, timetables, and fee information. ¹
	Communication Tools	Integrated SMS, email, and push notification systems for announcements, newsletters, and direct parent-teacher messaging. ⁶

The expansive nature of these modules highlights a key strategic consideration for SMS providers and schools, particularly in resource-constrained environments. It is often impractical for an institution to adopt and pay for every available feature. This reality necessitates a modular approach, where schools can select and implement a core set of functionalities—often centered on finance, academics, and communication—and add other modules as their needs and budgets evolve. This flexibility is crucial for market penetration in developing economies.

The Value Proposition: Quantifiable Benefits for Educational

Institutions

The global adoption of SMS is driven by a compelling value proposition that promises transformative benefits across the entire school ecosystem. These advantages move beyond simple convenience, offering tangible improvements in efficiency, accuracy, communication, and strategic oversight.

The most immediate benefit is a dramatic increase in administrative efficiency and time-savings.¹⁰ By automating repetitive and time-consuming tasks such as attendance tracking, fee collection, timetable creation, and report card generation, an SMS liberates administrative staff and teachers from a significant manual workload.² This allows them to reallocate their time and focus on higher-value activities, such as strategic planning for administrators and direct student instruction and support for teachers.³

Centralizing all institutional data into a single, unified database significantly enhances data accuracy and security.¹⁴ Manual, paper-based systems are prone to errors, data redundancy, and physical loss or damage. A digital system minimizes these risks, ensuring that student records, financial data, and academic information are accurate, consistent, and securely stored.¹² Role-based access controls and encryption protocols further protect sensitive information from unauthorized access, a critical consideration for maintaining student and staff privacy.⁸

Furthermore, SMS platforms are powerful tools for strengthening communication and engagement among all stakeholders.¹⁵ Integrated portals, messaging systems, and automated notifications create a seamless and transparent communication channel between the school, teachers, parents, and students.⁸ Parents can receive real-time updates on their child's attendance, academic performance, and upcoming events, fostering a more collaborative and supportive learning environment.³ This enhanced connectivity helps bridge the gap between home and school, which is crucial for student success.

Finally, the aggregation of data within an SMS enables data-driven decision-making.¹⁶ Administrators can generate comprehensive reports and analyze trends in student performance, attendance patterns, and financial health.² These insights allow for more effective resource allocation, timely intervention for at-risk students, and strategic planning based on empirical evidence rather than anecdotal information.² In the long run, this leads to a more cost-effective and efficiently run institution.¹²

Common Implementation Challenges and Mitigation Strategies

Despite the clear benefits, the implementation of an SMS is a complex undertaking that presents several common challenges, particularly for institutions with limited resources or technical expertise.

The most significant barrier is often the high initial cost.¹⁴ This includes software licensing fees, potential hardware upgrades, data migration services, and customization, which can be prohibitively expensive for smaller schools or those with tight budgets.¹³ This financial hurdle is a primary reason for the slower adoption rates in less affluent educational systems.

Human factors present another major obstacle. Resistance to change among staff who are accustomed to traditional methods is a common issue.¹³ Without proper buy-in and a clear understanding of the system's benefits, adoption can be sluggish and incomplete. This is compounded by the need for comprehensive staff training. A lack of technical expertise can prevent staff from fully utilizing the platform's features, thereby diminishing its effectiveness and return on investment.¹³

Technical challenges also abound. Migrating historical data from legacy systems or paper records into a new SMS can be a complex and error-prone process that requires careful planning and execution.¹⁶ Ensuring the new system can integrate with other existing software, such as accounting or learning platforms, is another critical consideration to avoid creating isolated data silos.¹⁴ Furthermore, ongoing maintenance, software updates, and the need for reliable technical support are crucial for the long-term success of the system.¹³ Finally, data privacy and security remain paramount concerns. Schools are custodians of sensitive student and staff information, and they must ensure that their chosen SMS provider has robust security protocols to protect against data breaches and cyberattacks.¹³

Successful implementation requires proactive mitigation strategies. This begins with a thorough needs assessment to identify the school's specific challenges and prioritize essential features, ensuring the selected vendor aligns with the institution's goals and budget.¹⁶ A phased rollout, starting with core modules and gradually expanding, can make the transition more manageable. Most importantly, investing in comprehensive and ongoing training and support for all staff is non-negotiable to ensure widespread adoption and effective use of the system.¹³

Section 2: The Tanzanian EdTech Ecosystem: A Context for Adoption

The adoption of School Management Systems in Tanzania is not occurring in a vacuum. It is shaped by a unique and complex ecosystem defined by ambitious government policies, stark infrastructural realities, and the evolving digital capacity of its educators. Understanding this

context is essential to analyzing the strategies of SMS providers and the adoption patterns of schools across the country. The environment presents a classic development paradox: a strong political will for digital transformation confronts significant on-the-ground barriers to implementation.

Policy and Vision: Analyzing the National Digital Education Strategy and Government Initiatives

The Government of the United Republic of Tanzania has demonstrated a clear and consistent commitment to integrating Information and Communication Technology (ICT) into the education sector. This top-down policy push serves as a primary catalyst for the adoption of digital tools, including SMS. The government's vision is articulated through a series of foundational policy documents that create a strategic framework for EdTech development.

Key among these is the Draft National Digital Education Strategy (NDES) 2024-2030, a comprehensive plan designed to guide the integration of ICT at all levels of education.¹⁷ The strategy's mission is to "Enhance access to quality teaching, learning and administration at all levels of education through the use of ICT".¹⁷ It is built upon seven core pillars: (1) Infrastructure and Access; (2) ICT Integration in the Curriculum; (3) Digital Content Development; (4) Digital Assessment; (5) Human Resource and Capacity Building; (6) Innovation, Research, and Entrepreneurship; and (7) Emerging Technologies.¹⁷ This framework signals to the market the government's long-term priorities, encouraging private sector alignment and investment. The NDES is itself guided by overarching national policies, including the Tanzania National ICT Policy of 2024 and the revised Education and Training Policy 2014 (2023 Edition).¹⁷

Beyond strategic documents, the government has initiated several concrete technological projects. One of the most significant is the TAMISEMI (President's Office - Regional Administration and Local Government) School Information System (SIS).¹⁹ This system is designed to address technological gaps and support policy implementation by allowing stakeholders to track critical data on students, teachers, and resources from the school level up to the national level, thereby enhancing oversight and planning.¹⁹ Another major initiative is the development of a national Learning Management System (LMS) specifically for Tanzania Continuous Professional Development (TCPD) for teachers, a project supported by partners like the EdTech Hub and the World Bank.²⁰

Furthermore, the government is actively fostering public-private partnerships to accelerate progress. The SmartWASOMI initiative, a five-year collaboration between the government, Airtel, and UNICEF, aims to provide free internet connectivity to over 3,000 schools, directly addressing the infrastructure pillar of the NDES.²² These policies and initiatives collectively create a powerful tailwind for the EdTech sector, signaling that digitization is a national

priority and fostering an environment where solutions like SMS are not just welcome but are seen as essential components of educational reform.

The Infrastructure Reality: Overcoming the Digital Divide

While the government's policy vision is ambitious, its implementation is fundamentally constrained by Tanzania's infrastructural landscape. A significant gap exists between the digital future envisioned in policy documents and the present-day reality of access to electricity and the internet, particularly outside of major urban centers. This digital divide is the single most critical factor shaping the design and adoption of any EdTech solution in the country.

Table 2: Key Digital Infrastructure Statistics for Tanzania (2024)

Metric	Statistic	Source(s)
Total Population	~68.4 million	23
Urban vs. Rural Population	37.7% Urban / 62.3% Rural	23
Median Age	17.1 years	23
Internet Penetration Rate	31.9%	23
Population without Internet Access	46.6 million (68.1%)	23
Cellular Mobile Connections	67.72 million (99.0% of population)	23
Median Mobile Internet Speed	22.61 Mbps	23
Median Fixed Internet Speed	17.99 Mbps	23
National Electricity Access Rate (2023)	48.3%	24

The data in Table 2 paints a stark picture. Despite near-universal mobile cellular penetration, over two-thirds of the population remains offline.²³ The disparity is heavily geographic; urban residents are more than three times as likely to have internet access as their rural counterparts.²⁶ Internet speeds reflect this divide, with urban centers like Dar es Salaam experiencing speeds up to 18 Mbps, while rural areas may lag at around 2 Mbps.²⁷ This is a direct consequence of lower economic investment in rural infrastructure.²⁸

A similar challenge exists with electricity. The national access rate of 48.3% in 2023 masks a significant urban-rural gap.²⁴ While initiatives by the Rural Energy Agency (REA) have made commendable progress, connecting over 6,500 educational institutions to the grid²⁹, many schools, especially in remote areas, still suffer from a lack of reliable power or frequent outages.³⁰ This makes the consistent use of digital tools like computers and servers a daily challenge.

This infrastructural reality forces a specific design philosophy upon any viable SMS provider in Tanzania. A system that requires constant, high-speed internet and a stable power supply will fail outside of a small subset of well-resourced urban schools. The juxtaposition of low internet penetration with high mobile penetration creates a clear mandate: the only path to scale is a mobile-first strategy. This means that successful platforms must not only have functional mobile applications but must also incorporate robust offline capabilities or leverage basic SMS technology for critical functions. This allows them to reach the majority of parents and teachers whose primary, and perhaps only, digital access point is a mobile phone, which may not always be a smartphone with an active data plan.

Human Capital: Assessing Digital Literacy and Capacity Building for Educators

The final piece of the ecosystem puzzle is the human element. The successful adoption of any technology is ultimately dependent on the ability and willingness of its users to integrate it into their daily workflows. In Tanzania, a significant digital skills gap among educators poses a major barrier to the effective use of EdTech tools.³²

Multiple studies confirm that limited ICT skills and knowledge among teachers is one of the most frequently cited factors hindering technology integration in Tanzanian secondary schools.³⁴ Teachers may lack the confidence or the training to move beyond basic computer use and effectively incorporate digital platforms into their pedagogical practices.³⁶ This challenge is recognized at the highest levels, with "Human Resource and Capacity Building" being a core pillar of the NDES.¹⁷

In response, various initiatives are underway to upskill the teaching workforce. The government, in partnership with UNESCO, is upgrading the Tanzania Continuous Professional

Development (TCPD) Learning Management System to provide a scalable digital platform for teacher training.²⁰ Universities are also playing a role; for example, Ardhi University has run programs to train primary school teachers in basic ICT literacy and has donated computers to local schools.³⁸ Non-governmental organizations like the Asante Africa Foundation are also contributing by providing targeted training on using digital tools in rural schools.⁴⁰

However, these efforts are working against a systemic challenge. The successful implementation of an SMS, therefore, cannot assume a high level of digital proficiency from its users. The software's interface must be intuitive and user-friendly, and the vendor must provide comprehensive, accessible, and ongoing training and technical support. This "service wrap-around" is as critical to successful adoption as the software's features themselves. For SMS providers, offering effective training and support is not just a value-added service but a fundamental requirement for market success in Tanzania.

Section 3: Market Leader Profile: Shule Soft

At the forefront of the commercial SMS market in Tanzania is Shule Soft, a homegrown EdTech company that has achieved significant scale and demonstrated a tangible impact on its client schools. An in-depth analysis of Shule Soft's strategy, product offerings, and market reception reveals a company that has successfully tailored a global technology concept to the specific needs and pain points of the Tanzanian education sector, particularly its private institutions. Its success is built on a clear understanding that for many schools, the path to digital transformation begins with solving fundamental financial and administrative challenges.

Corporate Overview and Strategic Positioning

Shule Soft is a Tanzanian startup that provides a leading cloud-based school management solution.⁴¹ The company positions itself as a premium provider, targeting "schools with high profiles" and aiming to empower them to "excel in academic and financial performance".⁴¹ This strategic focus suggests a primary concentration on the private school market, where institutions operate as businesses and are highly motivated by improvements in revenue collection, operational efficiency, and their competitive brand image.

This strategy has proven effective. As of early 2024, Shule Soft's platform was being utilized by over 470 schools across Tanzania, directly serving a community of more than 200,000 parents and students.⁴² This substantial user base establishes Shule Soft as a dominant player in the local market. The company's innovative approach and impact have been recognized through its selection for the prestigious Mastercard Foundation EdTech Fellowship, an initiative designed to support and scale promising educational technology ventures in Africa.⁴⁴

In-Depth Product Analysis: A Module-by-Module Review

Shule Soft offers a comprehensive, integrated system with over 17 modules, each designed to function as a complete system for a specific area of school management.⁴⁷ The platform's architecture is built around core functionalities that address the primary needs of a school: academics, finance, communication, and operations.

- **Academics Module:** This module provides a robust set of tools for managing the core educational functions of a school. It includes features for generating single and continuous assessment exam reports, creating consolidated mark sheets, and calculating student metrics such as class position, average scores, and ranks.⁴⁸ It also includes a timetable management tool to streamline scheduling.⁴⁸
- **Professional Accounting Module:** This is arguably the cornerstone of Shule Soft's value proposition. It is a comprehensive financial management system designed to help school accountants manage budgets and align with long-term financial strategy. Key features include the generation of invoices and receipts; the creation of essential financial statements like balance sheets, income statements, and cash flow statements; detailed fees management; staff payroll processing; and inventory management.⁴⁸ The system's ability to integrate directly with banks and mobile money services for hassle-free digital fee payments is a critical feature, simplifying the collection process for both the school and parents.⁴¹
- **Communication Module:** Recognizing the importance of stakeholder engagement, Shule Soft provides a powerful communication module that includes free SMS and email messaging.⁴⁸ The system can send automated reminders to parents about outstanding fee balances, distribute bulk announcements, and even receive SMS replies directly within the platform, ensuring timely and effective communication with the entire school community.⁴⁹
- **Operations and User Management:** The platform includes modules for managing daily operations such as student and staff attendance, transport routes and fares, library book borrowing, and hostel member management.⁴⁸ A sophisticated user management system provides role-based access for different stakeholders, including parents, teachers, and administrative staff, ensuring data security and appropriate access levels.⁴⁸

Beyond these core modules, Shule Soft has developed a suite of value-added products that create a broader ecosystem around the school. The **ShuleSoft Parent Experience App** is a dedicated mobile application for both Android and iOS that allows parents to view academic reports, track payments, monitor attendance, and receive school updates directly on their phones.⁵¹ This mobile-first approach is crucial for engaging parents in the Tanzanian context. Furthermore, the offering of

ShuleSoft Insurance through the parent app, which allows parents to subscribe to coverage

that protects their child's education in case of tragedy, demonstrates a sophisticated strategy.⁵¹ By integrating financial services like insurance and facilitating payments, Shule Soft embeds itself deeply into the school's financial ecosystem, moving beyond being a simple software provider to becoming a central operational hub. This creates significant customer loyalty and opens up diverse revenue streams.

Market Impact and Success Stories

The most compelling evidence of Shule Soft's success lies in its quantifiable impact on school operations, particularly in financial management. According to the company's director, Ephraim Swilla, schools using the Shule Soft system have seen their revenue collection rates increase dramatically, from a national average of 60-70% to over 90%.⁴² This statistic represents a powerful return on investment for schools and is likely the single most persuasive factor driving adoption. By automating invoicing, sending reminders, and providing convenient mobile payment options, the system directly addresses the critical challenge of cash flow management for private educational institutions.

This tangible financial impact has been recognized by education policy analyst Dr. Grace Mbiye, who has interacted with the system and noted its significance as a locally developed software that helps Tanzania move towards its educational goals.⁴² The system is lauded for its ability to streamline administrative tasks, enhance communication, and improve accountability, thereby contributing to a more efficient and inclusive education system.⁴²

Parent and Administrator Perspectives

User feedback further illuminates the value of the Shule Soft platform. A testimonial from a parent, Ms. Sofia Yunus, highlights the system's effectiveness in bridging the communication gap, especially for parents of children in boarding schools. She praises the platform for providing crucial visibility into her child's activities and academic progress, even from a distance.⁴² This speaks to the success of the parent portal and mobile app in meeting a core need for parental engagement.

From an administrative perspective, the company's marketing emphasizes the system's ability to reduce operational costs, as fewer staff members can accomplish more tasks in less time.⁴⁷ The platform is positioned as a tool that organizes school data to enable faster, more accurate, and better-informed decision-making by school leaders.⁴⁷ The overall narrative is one of empowerment, providing school leaders with the tools to manage all academic and administrative operations efficiently through a single, simple software interface.⁴⁷

Section 4: The Competitive Landscape: Other Key Players in Tanzania

While Shule Soft holds a prominent position in the Tanzanian market, it operates within a dynamic and growing competitive landscape populated by other local EdTech companies. These competitors differentiate themselves through their target markets, pricing models, and specific feature sets, catering to the diverse needs of Tanzania's educational institutions. Understanding this landscape, including the role of government-led systems, is crucial to appreciating the strategic choices available to schools and the overall trajectory of SMS adoption in the country.

Comparative Analysis of Local SMS Providers

Several homegrown companies have emerged to offer SMS solutions, each with a unique approach to the market. A comparative analysis reveals a market segmented not only by the type of school (public vs. private) but also by the school's financial capacity and technical preferences.

- **InfoTaaluma:** Founded in 2020, InfoTaaluma has quickly established a significant presence, particularly within the public school sector. As of 2025, the cloud-based system is used by 253 schools across 12 regions, serving over 200,000 parents.⁵³ Its key strategic differentiator is a strong focus on inclusivity. Recognizing the infrastructural challenges faced by many parents, InfoTaaluma ensures communication through both a mobile app and a reliable offline SMS notification service, guaranteeing that parents without smartphones or internet access can still receive important updates on attendance, exam results, and school events.⁵³ Its core features include student management, attendance tracking, exam results, and fee management.⁵⁵
- **Edupack:** Developed by OdoTech IT Solutions, Edupack targets a broad range of institutions, from nursery to A-Level secondary schools.⁵⁶ Similar to InfoTaaluma, it emphasizes accessibility through offline SMS capabilities for sharing results, attendance alerts, and fee reminders.⁵⁶ Edupack distinguishes itself with a transparent and affordable pricing structure based on a yearly subscription model. It offers three distinct packages—Basic, Pro, and Pro Plus—allowing schools to choose a plan that fits their budget and feature requirements.⁵⁶
- **MindifyiSchool:** This platform positions itself as a highly comprehensive and flexible solution capable of managing every process from admissions to degree commencement.⁵⁷ It highlights its adaptability for primary, secondary, and even multi-branch school setups. MindifyiSchool's feature set appears extensive, with offerings that include advanced modules for HR, payroll, and even biometric identity

management, suggesting it may target larger or more complex institutions seeking an all-in-one Enterprise Resource Planning (ERP) solution.⁵⁷

- **Smart School Manager:** This provider offers a unique business model that directly contrasts with the subscription-based services of its competitors. Smart School Manager provides a self-hosted SMS with a **pay-once lifetime license**.⁵⁸ This model appeals to schools that prefer a larger upfront capital expenditure to avoid recurring annual fees and have the technical capacity to manage their own system. Its feature set is also comprehensive, notably including integrated tools for creating live online classes and a built-in, mobile-friendly school website builder, adding significant value beyond core administrative functions.⁵⁸

The existence of these varied business models—from premium subscriptions and tiered annual fees to one-time lifetime licenses—indicates a maturing market. It reflects the diverse financial realities and preferences of Tanzanian schools. A school with stable operational funding might prefer a SaaS subscription with included support, while an institution with access to capital grant funding might opt for a lifetime license to minimize long-term operational costs.

Table 3: Comparative Analysis of Leading SMS Providers in Tanzania

Feature	Shule Soft	InfoTaaluma	EduPack	Smart School Manager
Target Market	Private / "High-Profile" Schools	Primarily Public Schools	Nursery, Primary, Secondary	Schools, Colleges, Training Centers
Pricing Model	Subscription (Implied)	Subscription	Yearly Subscription (Tiered)	One-Time Lifetime License
Key Differentiators	Financial ecosystem (banking, insurance), strong parent app, proven revenue increase.	Strong focus on inclusivity with robust offline SMS for public school parents.	Transparent, tiered annual pricing; offline SMS capability.	Self-hosted model, integrated online classroom and website builder.

Deployment Model	Cloud-based	Cloud-based	Cloud-based	Self-hosted
Accessibility Focus	Mobile App, SMS/Email	Mobile App & Offline SMS	Mobile Access & Offline SMS	Web-based, Mobile-friendly

Analysis of Government-led Systems (EMIS) vs. Commercial Solutions

Parallel to the commercial market, the Tanzanian government operates its own Education Management Information Systems (EMIS). The government has invested in EMIS since the 1980s with the primary goal of collecting, processing, and disseminating education data to inform national policymaking, planning, and resource allocation.³⁰ The modern TAMISEMI School Information System (SIS) is the current iteration of this effort, designed for macro-level oversight and data aggregation.¹⁹

These government systems are not direct competitors to commercial SMS platforms; rather, they serve a different purpose. While EMIS is focused on data collection for the ministry, a commercial SMS is focused on improving the day-to-day operations of an individual school. However, their coexistence creates a unique market dynamic. The government's requirement for schools to submit data digitally through EMIS acts as a powerful driver for digitization, effectively forcing schools to adopt some form of electronic record-keeping.

This creates an opportunity for commercial providers. Research and reports indicate that government-led systems can face challenges with usability, a lack of user-friendly software, and difficulties with system integration.³⁰ Commercial SMS providers can position their products as superior, user-friendly tools that not only make a school's internal management more efficient but also simplify the process of exporting data to meet government reporting requirements. By turning a compliance burden into a streamlined process, they provide a compelling value proposition that the government system, in its current form, does not offer.

Positioning and Target Market Differentiation

The Tanzanian SMS market is clearly segmented. Shule Soft has carved out a leadership position in the private school sector by focusing on the powerful return on investment from improved financial management. Its branding and feature set, including integrations with banks and insurance, are tailored to institutions that operate with a business mindset.

In contrast, InfoTaaluma has strategically targeted the vast but challenging public school

market.⁵³ Its emphasis on offline SMS functionality is a direct and astute response to the infrastructural realities faced by the majority of Tanzanian parents, demonstrating a deep understanding of its target user base. Edupack and Smart School Manager appear to cater to the broad middle market of nursery, primary, and secondary schools, competing on the basis of pricing flexibility (Edupack's tiers) and long-term cost of ownership (Smart School Manager's lifetime license). This segmentation ensures that schools of varying sizes, types, and financial capacities have multiple options, fostering a healthy and competitive EdTech ecosystem.

Section 5: Analysis of SMS Adoption in Tanzania: Drivers, Barriers, and Impact

The decision by a Tanzanian school to adopt a School Management System is influenced by a confluence of powerful drivers and significant barriers. The resulting impact of this technology is most profoundly felt in the administrative and financial spheres of school operations, while its effect on direct academic outcomes remains a more complex and aspirational goal. The adoption landscape reveals a clear hierarchy of needs, where schools first seek technological solutions for stability and efficiency before they can leverage them for pedagogical innovation.

Key Drivers for Adoption

Several strong forces are propelling the adoption of SMS platforms across Tanzania.

- **Government Push:** The most significant top-down driver is the government's explicit policy agenda. Through frameworks like the National Digital Education Strategy and initiatives such as the TAMISEMI SIS, the government is actively promoting and, in some cases, mandating the digitization of school records and processes.¹⁷ This creates a compliance-driven incentive for schools to seek out digital management solutions.
- **Private School Competition:** The private education sector, particularly in urban areas, is highly competitive. Schools adopt SMS platforms as a means of differentiation, offering enhanced services to parents, projecting a modern and efficient image, and improving their operational backbone to stay competitive.⁶⁰ A parent portal or a mobile payment option can become a key marketing point when attracting new students.
- **Parental Demand:** As the general population becomes more accustomed to digital services in other areas of life, such as banking and communication, expectations for schools are rising. Parents increasingly demand more timely, transparent, and convenient access to information about their children's education and school finances. SMS platforms with parent portals and mobile apps directly meet this demand, as evidenced

by testimonials praising the ability to monitor a child's progress remotely.⁴²

- **Operational Efficiency:** Perhaps the most powerful bottom-up driver is the desire of school administrators to alleviate the immense burden of manual processes. The promise of automating fee collection, simplifying report generation, and streamlining communication is a compelling value proposition for school leaders seeking to reduce workload, minimize human error, and improve financial stability.⁶¹

Significant Barriers to Widespread Adoption

Despite these drivers, formidable barriers prevent the universal adoption of SMS, particularly in the public and rural school sectors.

- **Infrastructural Deficits:** The most fundamental obstacle is the lack of reliable infrastructure. As detailed in Section 2, limited internet connectivity and inconsistent electricity supply make it difficult, if not impossible, for many schools to consistently use a cloud-based digital platform.³² This is the primary reason why features like offline SMS are critical for any system aiming for nationwide reach.
- **Cost and Budget Constraints:** The financial investment required for an SMS—including software fees, necessary hardware (computers, smartphones), and internet data costs—is a major hurdle. For public schools with limited budgets and many rural institutions, these costs can be prohibitive, placing the technology out of reach without subsidies or donor support.¹³
- **Digital Skills Gap:** The effectiveness of an SMS is contingent on the digital literacy of its users. A prevalent lack of ICT skills and competence among teachers and administrative staff is a significant barrier.³³ Without extensive and ongoing training, even the best software will be underutilized or abandoned. This makes the quality of vendor-provided training and support a critical factor in successful implementation.³²
- **Lack of Technical Support:** Closely related to the skills gap is the availability of timely and effective technical support. Especially in remote areas, a lack of local ICT experts to help with troubleshooting and maintenance can render a system unusable when technical issues arise, leading to frustration and disuse.³⁴

These barriers combine to create a challenging dynamic. The schools that are often the most under-resourced and administratively burdened—and thus could benefit the most from the efficiencies an SMS provides—are the very same schools that face the highest barriers to adoption. This creates a risk that technology, rather than acting as an equalizer, could inadvertently widen the existing quality and performance gap between well-funded, urban, private schools and their under-funded, rural, public counterparts.

The Measured Impact: Correlating SMS with School Performance

The impact of SMS implementation in Tanzania is most clearly and positively demonstrated in administrative and financial domains. Research and case studies show that these systems play a crucial role in making school management more efficient.³⁰ They provide a dependable repository for school data, streamline the tracking of teacher and student attendance, and enhance communication.³⁰ The most striking evidence of impact comes from the financial sphere. Shule Soft's reported success in boosting fee collection rates to over 90% provides a clear, quantifiable link between SMS adoption and improved financial health for schools.⁴² This demonstrates that the technology effectively solves a critical business problem for educational institutions.

The link between SMS adoption and improved student academic performance, however, is more complex and less direct in the Tanzanian context. While SMS platforms provide the tools for data-driven instruction—allowing teachers and administrators to analyze student performance trends and identify areas for intervention⁶²—the technology itself is not a panacea for underlying pedagogical challenges. Large-scale analyses by the World Bank suggest that the overall quality of school management practices in Tanzanian primary schools is currently at a level so low that there is not yet a statistically significant relationship between these practices and student learning outcomes.⁶³

This suggests a hierarchy of impact. Schools first adopt an SMS to address their most pressing, foundational needs: achieving administrative order and financial stability. Only once this foundation is secure, and once the general quality of school management and instructional leadership improves, can the data and tools provided by the SMS be effectively leveraged to drive meaningful improvements in teaching and learning. The technology is an enabler, but its ultimate impact on academic performance is contingent on the capacity of the school's human leadership to use it effectively.

Section 6: Strategic Outlook and Recommendations

The landscape of School Management Systems in Tanzania is poised for continued evolution, driven by technological advancements, shifting user expectations, and ongoing policy initiatives. The future success of SMS providers and the deepening of their impact on the education sector will depend on their ability to adapt to emerging trends and address the persistent systemic challenges. For stakeholders—from school leaders to policymakers and investors—a strategic approach is required to harness the full potential of this transformative technology.

Future Trends: AI, Mobile-First Design, and System Interoperability

Looking ahead, several key trends will shape the next generation of SMS platforms in Tanzania.

- **Accelerated Mobile-First and Mobile-Only Design:** The mobile phone is and will remain the primary digital interface for the vast majority of Tanzanians. The trend will move beyond simply having a "parent app" to designing entire systems with a mobile-first philosophy. This includes optimizing interfaces for low-bandwidth conditions, ensuring full functionality on a wide range of devices, and deepening integration with mobile-native services like mobile money and SMS-based communication protocols.⁶⁵
- **Integration of Artificial Intelligence (AI) and Advanced Analytics:** While still nascent in the Tanzanian context, the integration of AI holds significant future potential. In the near term, AI can be used to provide more sophisticated data analytics for administrators, identifying at-risk students or predicting enrollment trends. In the longer term, AI could power personalized learning plans based on student performance data, automate the grading of certain assessments, and provide AI-driven insights to help teachers refine their instructional strategies.⁶⁵
- **Emphasis on Interoperability and Ecosystem Integration:** As the EdTech market matures, schools will use a variety of digital tools. The ability of an SMS to seamlessly integrate with other platforms will become a critical differentiator. This includes interoperability with government systems like EMIS for simplified compliance reporting, as well as integration with specialized Learning Management Systems (LMS), digital content libraries, and other educational applications. A successful SMS will position itself as the central hub of a school's digital ecosystem.³⁰

Recommendations for School Administrators

For head teachers and school boards considering the adoption or upgrade of an SMS, a structured and strategic approach is essential for maximizing return on investment and ensuring successful implementation.

1. **Conduct a Rigorous Needs Assessment:** Before engaging with any vendor, school leaders must first identify their most critical pain points. Is the primary challenge fee collection, parent communication, academic record-keeping, or administrative workload? Prioritizing these needs will provide a clear set of criteria for evaluating potential solutions and prevent investment in features that are not essential.¹⁶
2. **Evaluate Vendors on Local Context and Support:** When comparing platforms, look beyond the feature list. Prioritize solutions that are explicitly designed for the Tanzanian context. This includes robust mobile money integration, effective offline SMS capabilities, and a user interface available in both Swahili and English. Critically assess the quality and accessibility of the vendor's training and ongoing technical support, as this is a key

determinant of long-term success.¹³

3. **Plan for Change Management and Training:** The implementation of an SMS is not just a technical project; it is an organizational change project. School leaders must champion the new system, clearly communicate its benefits to all staff, and invest heavily in comprehensive training. Identify tech-savvy teachers who can act as internal champions and provide peer support. A phased implementation, starting with a single core module like finance or attendance, can make the transition less daunting for staff.¹³
4. **Consider Total Cost of Ownership:** Evaluate the different pricing models carefully. A subscription model may have a lower upfront cost but results in a recurring operational expense. A one-time license fee requires a larger initial investment but may be more cost-effective over the long term. Factor in the costs of necessary hardware, internet data plans, and staff time for training when calculating the total cost of ownership.

Recommendations for Policymakers and Investors

To accelerate the digital transformation of Tanzania's education sector and ensure its benefits are distributed equitably, policymakers and investors should focus on strengthening the underlying ecosystem.

1. For Policymakers:

- **Prioritize Foundational Infrastructure:** Continue and expand investments in reliable electricity and affordable internet connectivity, particularly for rural and underserved schools. Public-private partnerships, like the SmartWASOMI initiative, should be scaled up to bridge the digital divide.²²
- **Invest in Digital Literacy at Scale:** Ramp up national teacher training programs focused on digital skills and pedagogical integration of technology. The TCPD LMS is a good foundation, but it must be supported by in-person training and ongoing support to be effective.³⁷
- **Foster Interoperability Standards:** Develop clear technical standards and data-sharing protocols to ensure that commercial SMS platforms can easily and securely interact with the national EMIS. This will create a more efficient ecosystem, reduce the reporting burden on schools, and provide the government with higher-quality data.
- **Incentivize Adoption in Public Schools:** Explore targeted subsidies, grant programs, or bulk-procurement models to make high-quality SMS platforms more affordable for public and low-fee private schools, helping to mitigate the widening of the digital divide.

2. For Investors and EdTech Providers:

- **Design for the Reality, Not the Ideal:** The most successful products will be those hyper-localized for the Tanzanian context. This means mobile-first, low-bandwidth, offline-capable solutions with intuitive interfaces.
- **Focus on the Proven ROI:** The clearest entry point into the market is by solving the

financial and administrative challenges of schools. A product that can demonstrate a direct and rapid return on investment through improved fee collection will always have a compelling case.

- **Monetize the Service, Not Just the Software:** In a market with a significant skills gap, high-quality training, implementation support, and responsive customer service are powerful differentiators and potential revenue streams. A "software with a service" model is likely to be more successful than a purely product-based approach.
- **Explore Innovative Business Models:** To penetrate the vast public school market, providers should explore flexible and innovative business models. This could include modular "freemium" offerings, district-level licensing agreements, or models funded through partnerships with development organizations and corporate sponsors.

Works cited

1. What is a School Management System? - iGradePlus, accessed September 17, 2025, <https://igradeplus.com/schoolmanagementsystem>
2. What is School Management System - Security Boulevard, accessed September 17, 2025, <https://securityboulevard.com/2024/01/what-is-school-management-system/>
3. School Management System: A Comprehensive Guide (2024) - Engineerica, accessed September 17, 2025, <https://www.engineerica.com/academic-centers/post/school-management-system-guide/>
4. School Management Systems vs. Student Information Systems - SchoolCues, accessed September 17, 2025, <https://www.schoolcues.com/blog/school-management-systems-vs-student-information-systems-understanding-the-key-differences-and-synergies/>
5. Student information system, accessed September 17, 2025, https://en.wikipedia.org/wiki/Student_information_system
6. 10 Must-Have Modules in a School Management System | ERP Features 2025 - GR Tech, accessed September 17, 2025, <https://www.grtech.com/blog/10-software-modules-that-you-cannot-miss-in-your-school-management-system>
7. Top features of school management software in 2025 - Geniusee, accessed September 17, 2025, <https://geniusee.com/single-blog/key-features-of-school-management-software>
8. What is School Management Software? - DreamClass, accessed September 17, 2025, <https://www.dreamclass.io/what-is-school-management-software/>
9. What are the key features of the best school management software? - Quora, accessed September 17, 2025, <https://www.quora.com/What-are-the-key-features-of-the-best-school-management-software>
10. Introducing the Benefits of School Management System for Smooth Operations, accessed September 17, 2025, <https://ischoolmaster.com/blog/benefits-of-school-management-system>

11. The Top Student Management Systems Features for Efficient School Administration, accessed September 17, 2025, <https://moderncampus.com/blog/the-top-student-management-systems-features-for-efficient-school-administration.html>
12. What Are The Benefits Of School Management System? - iTrobes, accessed September 17, 2025, <https://www.itrobes.com/benefits-of-school-management-system/>
13. Small School Management System: Overcoming Challenges - SchoolCues-Blog, accessed September 17, 2025, <https://www.schoolcues.com/blog/what-are-the-challenges-in-implementing-school-management-systems-in-small-schools/>
14. 20 Advantages of Student Management Systems & Challenges - Cloud Assess, accessed September 17, 2025, <https://cloudassess.com/blog/sms-advantages/>
15. Top Benefits of Implementing a School Information Management System (SIS) - DreamClass, accessed September 17, 2025, <https://www.dreamclass.io/2025/top-benefits-of-implementing-a-school-information-management-system-sis/>
16. Education Management Systems: Benefits, Features, and Implementation, accessed September 17, 2025, <https://www.iitms.co.in/blog/education-management-systems-benefits-features-and-implementation.html>
17. THE UNITED REPUBLIC OF TANZANIA DRAFT NATIONAL DIGITAL EDUCATION STRATEGY, accessed September 17, 2025, https://www.moe.go.tz/sites/default/files/Draft_National_Digital_Education_Strategy%202024-2030-2.pdf
18. The Potential Impact of the Draft National Digital Education Strategy on EdTechs in Tanzania, accessed September 17, 2025, <https://edtech.saharaventures.com/blog/the-potential-impact-of-the-draft-national-digital-education-strategy-on-edtechs-in-tanzania>
19. THE USE OF DIGITAL TECHNOLOGIES TO ENHANCE EDUCATION IN TANZANIA: CHALLENGES AND STRATEGIC INTERVENTIONS | Policy Forum, accessed September 17, 2025, <https://www.policyforum-tz.org/blog/2025-05-19/use-digital-technologies-enhance-education-tanzania-challenges-and-strategic>
20. EdTech Hub | Institute for Educational Development, East Africa - The Aga Khan University, accessed September 17, 2025, <https://www.aku.edu/iedea/dev-projects/Pages/edtech.aspx>
21. Building a better Learning Management System for teachers: How Agile methods are being used to support education reform in Tanzania - EdTech Hub, accessed September 17, 2025, <https://edtechhub.org/2024/09/18/how-agile-methods-are-being-used-to-support-education-reform-in-tanzania/>
22. Government, Airtel, and UNICEF join hands to accelerate digital learning in Tanzania., accessed September 17, 2025, <https://www.unicef.org/tanzania/press-releases/government-airtel-and-unicef-join>

[n-hands-accelerate-digital-learning-tanzania](#)

23. Digital 2024: Tanzania — DataReportal – Global Digital Insights, accessed September 17, 2025, <https://datareportal.com/reports/digital-2024-tanzania>
24. Tanzania Electricity Access | Historical Chart & Data - Macrotrends, accessed September 17, 2025, <https://www.macrotrends.net/global-metrics/countries/tza/tanzania/electricity-access-statistics>
25. Tanzania - Access To Electricity (% Of Population) - 2025 Data 2026 Forecast 1990-2023 Historical - Trading Economics, accessed September 17, 2025, <https://tradingeconomics.com/tanzania/access-to-electricity-percent-of-population-wb-data.html>
26. The Size and Distribution of Digital Connectivity Gaps in Sub-Saharan Africa - World Bank Documents and Reports, accessed September 17, 2025, <https://documents1.worldbank.org/curated/en/099241003142325200/pdf/IDU0cb2e42f3050260484d0b8370b84eeee303ecf.pdf>
27. What's The Internet Speed Like In Tanzania? - Lappet Faced Safaris, accessed September 17, 2025, <https://www.lappetfacedsafaris.com/whats-the-internet-speed-like-in-tanzania/>
28. A Rural-Urban Digital Divide?: Regional Aspects of Internet Use in Tanzania, accessed September 17, 2025, https://www.researchgate.net/publication/228341330_A_Rural-Urban_Digital_Divide_Regional_Aspects_of_Internet_Use_in_Tanzania
29. Let There be Light: In Tanzania, More Electricity Brings Better Education and Health, accessed September 17, 2025, <https://www.worldbank.org/en/news/feature/2025/04/29/let-there-be-light-in-afghanistan-tanzania-more-electricity-brings-better-education-and-health>
30. The Impact of Educational Management Information Systems (EMIS) on Effective School Management in TanzaniaDampak Sistem Informasi Manajemen Pendidikan (EMIS) terhadap Manajemen Sekolah yang Efektif di Tanzania - ResearchGate, accessed September 17, 2025, https://www.researchgate.net/publication/380279761_The_Impact_of_Educational_Management_Information_Systems_EMIS_on_Effective_School_Management_in_TanzaniaDampak_Sistem_Informasi_Manajemen_Pendidikan_EMIS_terhadap_Manajemen_Sekolah_yang_Efektif_di_Tan
31. School infrastructure for effective implementation of the Tanzania Education and Training Policy 2014 (2023) Edition in secondary schools: A case study of Mpimbwe District Council - ResearchGate, accessed September 17, 2025, https://www.researchgate.net/publication/393113790_School_infrastructure_for_effective_implementation_of_the_Tanzania_Education_and_Training_Policy_2014_2023_Edition_in_secondary_schools_A_case_study_of_Mpimbwe_District_Council
32. Ed-Tech landscape and challenges in Sub-Saharan Africa - Southern Voice, accessed September 17, 2025, http://southernvoice.org/wp-content/uploads/2023/12/SV_Ops-N88-Pre.pdf
33. Digitalization in teaching and education in the United Republic of Tanzania - International Labour Organization, accessed September 17, 2025,

- <https://www.ilo.org/media/386396/download>
34. The Adoption and Usage of ICT in Teaching and Learning in Tanzanian Secondary Schools: A Systematic Review - AWS, accessed September 17, 2025,
https://sdiopr.s3.ap-south-1.amazonaws.com/2024/Nov/13-Nov-24/2024_AJESS_125632/Ms_AJESS_125632.pdf
 35. Digital Technology Adoption in Public Secondary Schools in Tanzania: A Case of Handeni District - ResearchGate, accessed September 17, 2025,
https://www.researchgate.net/publication/392116016_Digital_Technology_Adoption_in_Public_Secondary_Schools_in_Tanzania_A_Case_of_Handeni_District
 36. Challenges and Opportunities of Implementing Education Technology in Rural and Underserved Areas of Tanzania, Assessing the Sustainability and Educational Impact of Such Initiatives | African Journal of Education and Practice - IPRJB, accessed September 17, 2025,
<https://iprjb.org/journals/index.php/AJEP/article/view/3031?articlesBySimilarityPage=10>
 37. UNESCO and the Government Partner to Strengthen Teachers Development, accessed September 17, 2025,
<https://www.unesco.org/en/articles/unesco-and-government-partner-strengthen-teachers-development>
 38. Universities step in to bridge Tanzania's digital divide in schools | The Citizen, accessed September 17, 2025,
<https://www.thecitizen.co.tz/tanzania/news/national/universities-step-in-to-bridge-tanzania-s-digital-divide-in-schools-5165212>
 39. ARU initiative boosts ICT literacy in Tanzania's schools | The Citizen, accessed September 17, 2025,
<https://www.thecitizen.co.tz/tanzania/news/national/aru-initiative-boosts-ict-literacy-in-tanzania-s-schools-5172574>
 40. Equipping Teachers With Digital Skills Using Chromebooks - Asante Africa Foundation, accessed September 17, 2025,
<https://asanteafrica.org/project/equipping-teachers-with-digital-skills/>
 41. ShuleSoft – VC4A, accessed September 17, 2025,
<https://vc4a.com/ventures/shulesoft-2/>
 42. Tanzania's tech startups in race to bridge digital divide in education | The Citizen, accessed September 17, 2025,
<https://www.thecitizen.co.tz/tanzania/news/national/tanzania-s-tech-startups-in-race-to-bridge-digital-divide-in-education-4596422>
 43. www.thecitizen.co.tz, accessed September 17, 2025,
<https://www.thecitizen.co.tz/tanzania/news/national/tanzania-s-tech-startups-in-race-to-bridge-digital-divide-in-education-4596422#:~:text=The%20impact%20of%20ShuleSoft's%20system,school%20productivity%20and%20revenue%20collection.>
 44. Sahara Consult And The Mastercard Foundation EdTech Fellowship Reveal The First Cohort Of 10 Start-ups Set To Transform Tanzania's Education Sector, accessed September 17, 2025,
<https://mastercardfdn.org/en/articles/sahara-consult-and-the-mastercard-found>

[ation-edtech-fellowship-reveal-the-first-cohort-of-10-start-ups-set-to-transform-tanzanias-education-sector/](#)

45. Ten Tanzanian education-based startups to get funding - The Citizen Tanzania, accessed September 17, 2025, <https://www.thecitizen.co.tz/tanzania/business/ten-tanzanian-education-based-startups-to-get-funding-4653898>
46. The Mastercard Foundation EdTech Fellowship Cohort 1 concludes, reaching 74,973 new users and learners in Tanzania, accessed September 17, 2025, <https://edtech.saharaventures.com/blog/edtech-fellowship-cohort-1-concludes-reaching-74973-new-users-and-learners-in-tanzania>
47. ShuleSoft School Management System, accessed September 17, 2025, <https://shulesoft.africa/>
48. ShuleSoft School Management System, accessed September 17, 2025, <https://www.shulesoft.co/morepress/24>
49. Features - ShuleSoft School Management System, accessed September 17, 2025, <https://shulesoft.africa/modules>
50. ShuleSuite, accessed September 17, 2025, <https://shulesuite.com/>
51. ShuleSoft Parent Experience - Apps on Google Play, accessed September 17, 2025, <https://play.google.com/store/apps/details?id=africa.shulesoft.parentexperience>
52. Introducing the New ShuleSoft Parent Experience App | Enhanced Features for Better Engagement - YouTube, accessed September 17, 2025, <https://www.youtube.com/watch?v=f65k2JxII-E>
53. Infotaaluma School Management System | Reviews 2025: Features, Price, Alternatives, accessed September 17, 2025, <https://edtechimpact.com/products/infotaaluma-mzazi/>
54. InfoTaaluma School Management System - YouTube, accessed September 17, 2025, <https://www.youtube.com/watch?v=X4vu0qzYz48>
55. InfoTaaluma App, accessed September 17, 2025, <https://infotaaluma.co.tz/>
56. Edupack Tanzania - OdoTech IT Solutions, accessed September 17, 2025, <https://www.edupack.ac.tz/>
57. School Management System Tanzania | School Software - Mindifyi, accessed September 17, 2025, <https://mindifyi.com/case-studies/tanzanian-school-management-system/>
58. School Management System in Tanzania, Best Smart School Management Software Tanzania, Best School ERP Software, Smart School Software App, accessed September 17, 2025, <https://smartschoolmanager.com/pages/managementsoftware/tanzania/>
59. The Effectiveness of head teachers' use of education information management systems and - Ruaha Catholic University, accessed September 17, 2025, <https://rucu.ac.tz/journals/articles/article-file/5B297033.pdf>
60. ICT in Education in Tanzania - World Bank Open Knowledge Repository, accessed September 17, 2025, <https://openknowledge.worldbank.org/bitstreams/d55cab07-c602-582b-a8fa-66702c8891ab/download>

61. Top Features of Tanzanian School Management Systems - Mindifyi, accessed September 17, 2025,
<https://mindifyi.com/features-of-tanzanian-school-infomation-systems/>
62. The effect of management information system on student academic performance: A case of selected higher learning institutions in, accessed September 17, 2025, <https://wjarr.com/sites/default/files/WJARR-2024-3669.pdf>
63. What Do We Know about the Quality of School Management in Tanzania? - World Bank Documents and Reports, accessed September 17, 2025,
<https://documents1.worldbank.org/curated/en/099918509132416518/pdf/IDU-4fbe64c-ec98-4d08-8f55-dc7a8120849e.pdf>
64. School Management Quality in Tanzania: Evidence from Primary Schools - Policy Commons, accessed September 17, 2025,
<https://policycommons.net/artifacts/16465372/what-do-we-know-about-the-quality-of-school-management-in-tanzania/17350129/>
65. The Future of E-Learning: Integrating School Management Systems - Mindifyi, accessed September 17, 2025,
<https://mindifyi.com/the-future-of-e-learning-integrating-school-management-systems/>
66. Generative Artificial Intelligence-Based Learning Resources for Computing Students in Tanzania Higher Learning Institutions - UDSM Journals - University of Dar es Salaam, accessed September 17, 2025,
<https://journals.udsm.ac.tz/index.php/lj/article/view/8443/6614>