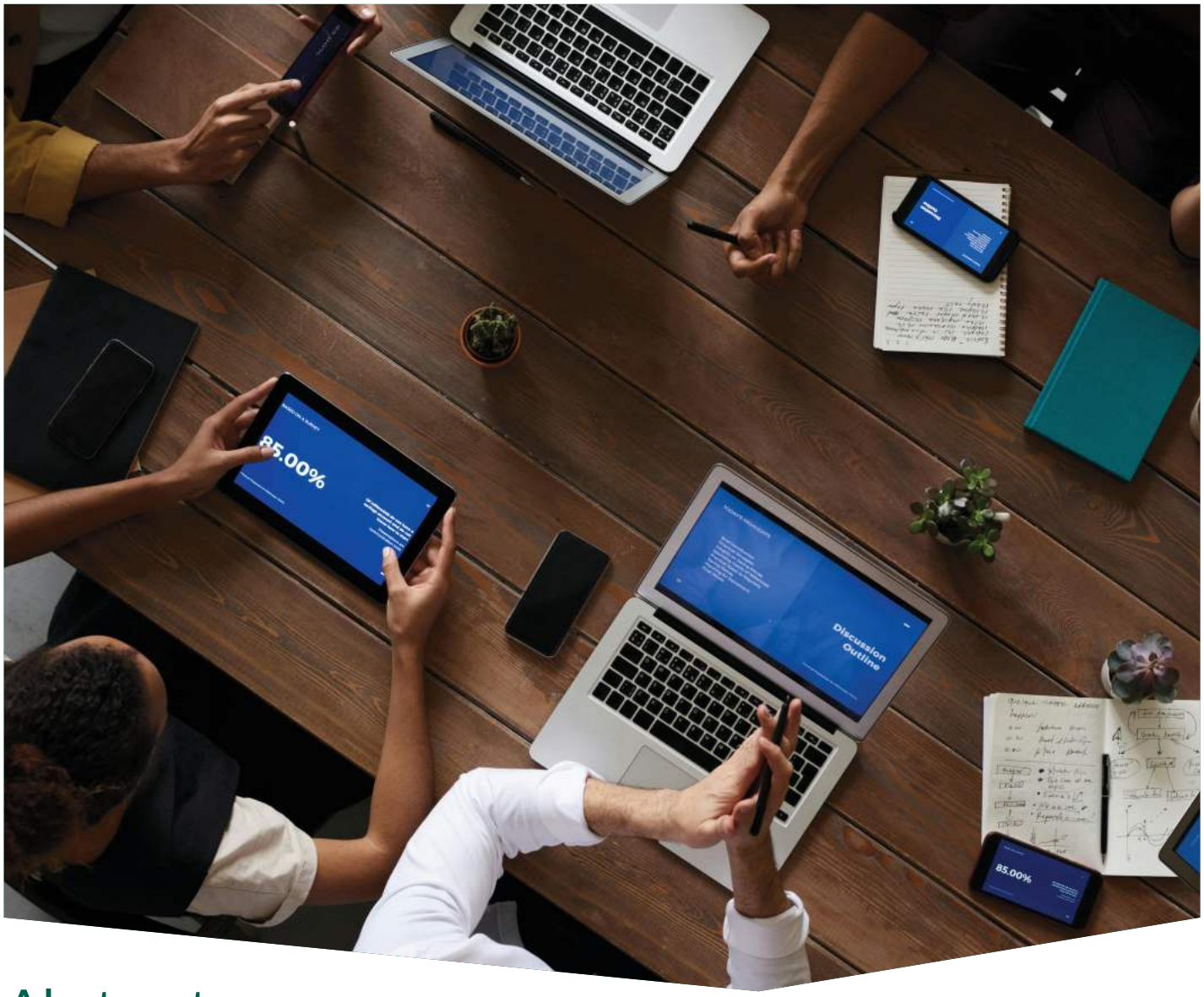
DreamClass

The Digital Imperative

A Comprehensive Report on Automating and Digitizing Manual Tasks in School Administration

DreamClass - September 2025



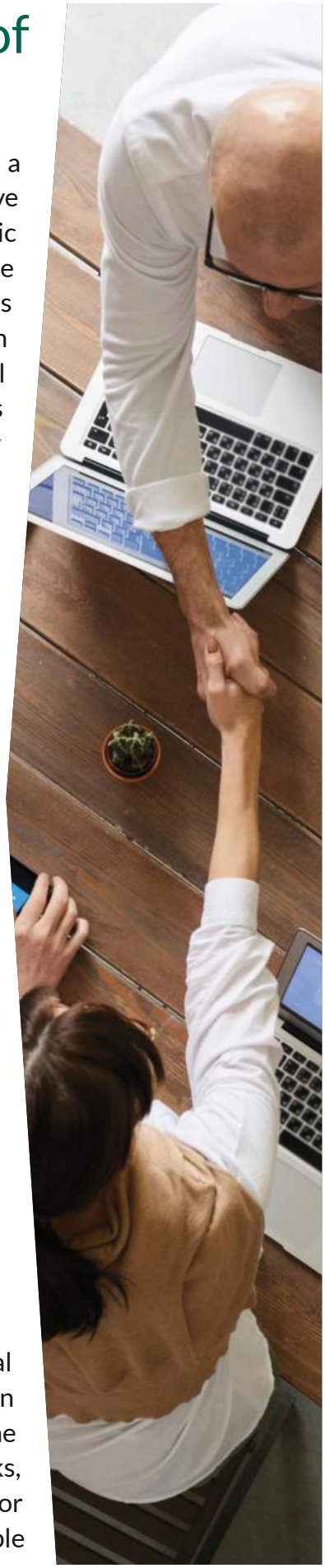
Abstract

Digital transformation of school administration is no longer optional. It's a strategic necessity for institutions seeking to improve efficiency, accuracy, and educational outcomes. While classroom technology often dominates discussion, the automation of admissions, enrollment, student information management, payroll, grading, and communication delivers equally critical value. By digitizing repetitive processes, institutions reduce errors, free staff from manual burdens, and enable educators to devote more time to teaching and student engagement.

Artificial Intelligence and Machine Learning further extend these benefits, through predictive insights, automated support, and scalable assessment, positioning technology as a strategic partner rather than a replacement for human expertise. However, successful adoption requires overcoming barriers such as cultural resistance, digital literacy gaps, financial constraints, and concerns about equity and bias.

This document demonstrates that administrative automation is not merely about operational savings. It is also a lever for institutional resilience and academic improvement, ensuring that schools can operate more effectively, while creating environments where students and faculty thrive.

Chapter 1: The Strategic Imperative of Digital Transformation in Education



The digital transformation of educational institutions has emerged as a strategic necessity, driven by the need to enhance efficiency, improve accessibility, and navigate the complexities of modern academic management.[1] While the public discourse often centers on the technological integration within the classroom, from e-learning platforms to interactive teaching tools, a parallel and equally critical transformation is occurring behind the scenes, within the administrative and operational core of schools and universities. This report examines the landscape of this administrative digitalization, synthesizing key research and industry findings to provide a comprehensive guide for institutional leaders.

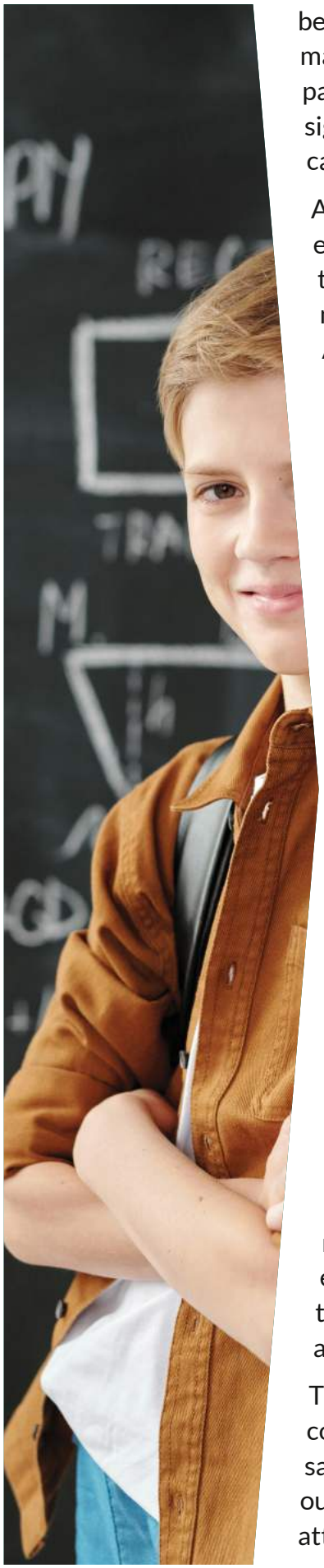
1.1. Defining Digital Transformation Beyond the Classroom

Digital transformation, in an educational context, is not merely the process of replacing analog tools with digital ones, such as swapping paper forms for PDF documents or using email instead of a memo. It represents a fundamental, mission-critical change in how institutions operate and deliver value to their stakeholders.[3] The Organization for Economic Co-operation and Development (OECD) has documented this shift, gathering comparative information on the digital education policies of 37 jurisdictions, revealing a focus on central strategies and policy coordination that go beyond isolated technological upgrades.[4]

This transformation is oriented towards solving large-scale, systemic problems; from inefficient student enrollment processes to the effective management of vast amounts of sensitive data.[5] It is a vehicle for improving the experience and value provided to students, faculty and parents, and a driver of cultural change, as much as a technological one.[3] The shift is from a reactive, piecemeal approach to a proactive, integrated strategy that leverages technology to create a healthier, more connected institutional infrastructure.[7]

1.2. The Case for Automation: Why Now?

The increasing demand for administrative automation is driven by several key factors. At the forefront is the overwhelming administrative burden on educators and staff. A central objective of automation is to reduce the workload associated with repetitive, mundane, and time-consuming tasks, thereby freeing human resources to focus on high-value work.[8] For example, a case study from a school district demonstrates the tangible



benefits of this approach: The automation of time and attendance management saved the payroll team 36 hours of work every two-week payroll period.[11] This allowed staff to focus on other strategic tasks, and significantly reduced the stress and fatigue associated with manual calculations.[11]

Another critical driver is the need for improved data accuracy and the elimination of human error.[8] Manual processes, ranging from transcribing student details to hand-calculating payroll, are prone to mistakes that can be costly and time-consuming to correct.[11] Automated systems, by contrast, can ensure that data is captured and processed with a high degree of precision; a reliability that is essential for compliance and reporting requirements.[8] The implementation of these digital systems also underpins a broader shift toward data-driven decision-making, which empowers school leaders to make more informed and accurate decisions about everything: from resource allocation to student support.[14]

1.3. A Causal Link: From Administrative Efficiency to Pedagogical Enhancement

The benefits of automating administrative tasks extend far beyond operational efficiency and cost reduction. The analysis of these developments reveals a clear and direct causal link between the automation of institutional processes and the enhancement of the core educational mission. When educators are freed from the burdens of manual record-keeping, grading and administrative follow-up, they can dedicate more of their time and energy to their primary roles: teaching and student engagement.[10]

Research indicates that AI tools can automate up to 40% of a teacher's tasks, such as tracking student progress.[16] The resulting time gain allows teachers to focus on providing personalized instruction [17], engaging in more meaningful instructional activities [18], and addressing the individual needs of their students.[17] We can then understand that the automation of the mundane and mechanical aspects of the job is not merely an operational improvement; it is a strategic lever that directly enhances the quality of teaching and learning, by empowering educators to concentrate on their highest-value work, such as empathy, mentorship, and critical thinking.[16]

This realization establishes a central thesis for institutional leaders to consider: Investments in administrative technology are not just about saving money. They are a critical strategy for improving academic outcomes, by creating an environment where faculty can dedicate their full attention to the students.

Chapter 2: Core Administrative Functions and Transformative Solutions

The digital transformation of school administration is a multi-faceted endeavor that touches nearly every aspect of institutional operation. This chapter provides a detailed, function-by-function breakdown of how specific manual tasks are being digitized and automated, citing concrete examples and technologies that are leading this change.

2.1. Admissions, Enrollment, and Registration

The student admissions process is traditionally a paper-intensive and time-consuming endeavor; and it's a prime candidate for automation.[9] Dedicated admissions platforms and workflow automation tools are designed to streamline the entire student journey, from initial inquiry to final enrollment. These solutions use automated intake forms and secure portals to collect data from prospects and seamlessly transfer it into a student engagement Customer Relationship Management (CRM) system.[20] This, not only makes the process faster and less cumbersome for the student, but also ensures that the institution can follow up with automated confirmations or deliver requested marketing content; thereby improving the student's first impression and reducing the risk of losing their enrollment.[20]

Furthermore, these systems can automate document collection and data entry. A study on automated admission systems, demonstrates how a platform can take an input file, such as an Excel spreadsheet, PDF, or image, and automatically fill that data into an admission form, a process that can work 24/7 with minimal human participation.[12] This reduces time, eliminates the need for students to be physically present, and minimizes human errors; ensuring a higher quality of data, right from the start.[12] The use of automated reminders and messages is also extremely helpful for eligible students as they navigate deadlines and enrollment requirements, which frees up admissions staff from having to chase down students for common steps.[20]

2.2. Student Data and Information Management

At the heart of any comprehensive administrative transformation is the Student Information System (SIS). The modern SIS has evolved from a simple

digital filing cabinet into a dynamic, multifaceted platform that acts as the central nervous system of a school's operations.[5] It centralizes all student-related data, including course registration, grades, transcripts, and attendance records, providing a holistic, end-to-end view of each student record.[5] This centralization allows administrators and staff to deliver personalized student experiences; and provides the necessary data to intervene with students who may not be on a direct path to completion, thereby helping to increase retention rates.[5]

Complementing the SIS, are Enterprise Resource Planning (ERP) systems. These streamline a school's most essential business functions.[7] School ERPs, like those from Tyler Technologies and Frontline Education, integrate financial, budgeting, procurement, human resources, and payroll data, providing a single source of truth for the entire institution.[7] This trend reflects a unique understanding. One that tells us that successful digitalization requires integrative strategies that link all platforms and application systems, to avoid data duplication and improve operational efficiency.[1]

2.3. Attendance, Time, and Absence Management

We know that manual attendance tracking and timekeeping are notoriously time-consuming and prone to inaccuracy.[8] By digitizing and automating these processes, institutions can eliminate paper-based record-keeping and reduce the administrative burden on both teachers and support staff. A specific case study of a public school district illustrates this benefit, where the implementation of a time and attendance management system saved the payroll team 36 hours of work every two weeks.[11] This automation eliminated the need for manual calculations, improved data accuracy and enhanced the work culture, by removing the stress of manual payroll processing.[11]

The benefits extend beyond the administrative office. With an integrated system, employees can monitor their own leave balances without contacting HR. Leave information can be automatically populated into timesheets, making the entire process smoother and more cohesive.[11] This streamlining allows for better workforce planning and cost optimization, and ensures compliance with labor regulations; which is especially critical in industries with stringent requirements, such as healthcare.[8]

2.4. Grading, Assessment, and Course Management

The tasks of grading, assessment, and course management are also undergoing a significant transformation, through automation. Learning Management Systems (LMS) are a key component of this, providing a centralized platform for the administration, tracking and delivery of educational content.[23] These systems can automate tasks for educators, such as auto-enrolling students into courses, based on their role or department, and scheduling recurring training cycles.[24] A study found that these automation features could reduce LMS administration time by up to 30%.[24]

Artificial intelligence is further enhancing this process by streamlining assessment. For example, AI-powered tools like Gradescope can evaluate assignments and provide detailed feedback, saving teachers time, while ensuring consistency and objectivity.[19] These systems can handle repetitive grading tasks for multiple-choice and short-answer questions, and can even evaluate grammar, style and structure in essays.[18]

Automated platforms also play a vital role in course registration and academic approvals. By replacing fragmented manual processes with streamlined workflows, these tools can handle prerequisite checks, departmental sign-offs and enrollment caps, ensuring timely responses for students and avoiding scheduling conflicts for departments.[9]

2.5. Communication and Engagement

Effective communication is essential for a thriving academic community, and automation is revolutionizing the way schools interact with parents, students and staff. The shift is from relying on students to carry home paper forms, to automated digital communication that is both instant and reliable.[26]

Platforms like ParentSquare streamline this process, by providing a single hub for mass notifications, one-to-one messaging, and automated forms and permission slips.[26] This removes paper clutter and allows teachers and administrators to have direct communication with all parents.[26] A critical feature of these platforms is the ability to provide automatic two-way translation in over 100 languages, which helps to bridge language barriers and promote parent engagement in increasingly diverse districts.[26] This ensures that all families can receive accurate and compliant communications in a language they can understand, fostering a stronger connection between home and school.[27]

Chapter 3: The Foundational Technology Ecosystem

The successful digitalization of school administration is not dependent on a single piece of software, but on a cohesive, integrated technology ecosystem. A common challenge for institutions is the use of disparate, siloed systems; which, of course, reinforces a "we've always done it this way" attitude and prevents data from flowing freely between departments.[3] This creates redundant data entry, manual processes and information silos between the classroom, business office and other departments.[7]

3.1. The Interconnected Ecosystem of EdTech

To counter this fragmentation, major vendors are now offering integrated, enterprise-level solutions, designed to "bridge the silos" and provide a single source of trusted data.[7] This approach, exemplified (as we've already touched on) by companies like Tyler Technologies and Frontline Education, aims to create a "connected future", where all software solutions are part of a larger, continuously improving ecosystem.[22] The goal is to get all systems "talking together" [11], for instance, by having a time and attendance system seamlessly integrate with an absence management system, to automate leave tracking.[11] Research supports this strategic trend, underscoring that successful digitalization depends not just on technological adoption, but on integrative strategies that link digital platforms and application systems to maximize institutional performance.[1]

3.2. Student Information Systems (SIS): The Central Hub

As the central hub for student data, the SIS plays a pivotal role in this ecosystem. It centralizes everything, from course registration and attendance to grades and transcripts; thus, providing a holistic view of each student's profile and record.[5] A key feature of modern SIS solutions is their cloud-based architecture, which offers significant benefits for scalability, reliability, business continuity and security.[5] For example, during high-traffic periods like course registration, the cloud infrastructure can be scaled up to handle the increased demand; and then scaled back during quieter periods, ensuring efficiency and cost-effectiveness.[5] The cloud also introduces an extra layer of security and redundancy, which helps institutions prepare for the unexpected and recover faster from data loss

than with traditional “on-premise” systems.[5]

Despite these benefits, implementing an SIS comes with challenges. Common hurdles include resistance to change, complex data migration issues, and the need for comprehensive staff training.[28] Successful implementation requires a step-by-step roadmap that includes assessing institutional needs, selecting the right provider, and planning for data migration and configuration.[28]

3.3. Workflow Automation Platforms

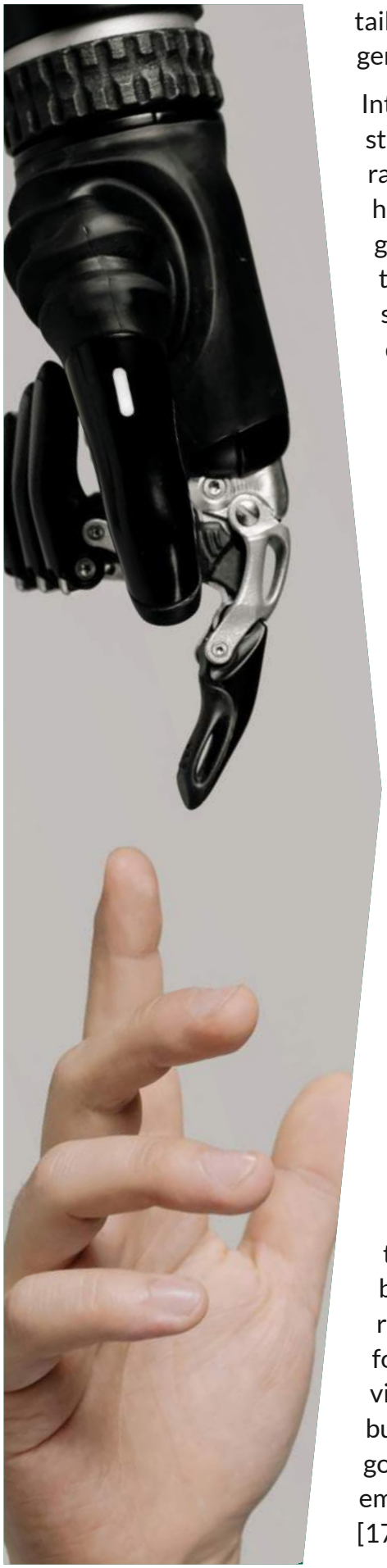
In addition to large-scale ERP and SIS deployments, a growing number of institutions are leveraging agile, no-code workflow automation platforms to address specific pain points.[9] These platforms allow institutions to digitize custom processes without extensive IT development, making them a flexible solution for a wide range of administrative tasks.[9] For instance, a case study of a college that implemented a no-code builder for six different processes demonstrated time savings of over 4,700 hours.[9] These tools empower institutions to map out manual workflows, digitize forms, and automate approval processes, providing a high return on investment for tasks that involve multiple steps and stakeholders.[9]

Chapter 4: The Transformative Role of Artificial Intelligence (AI) and Machine Learning (ML)

While many of the administrative technologies discussed thus far are focused on automating existing processes, the integration of Artificial Intelligence (AI) and Machine Learning (ML) marks a more fundamental transformation. These advanced technologies are not just replicating human tasks; they are augmenting human capabilities, providing a new form of partnership between technology and intelligence.[16]

4.1. AI and ML in Action: Augmenting Human Roles

AI is already making significant strides in several administrative domains. In admissions, for example, predictive analytics can analyze historical data, to predict student success, identify at-risk applicants, and optimize recruitment strategies to find the most engaged prospects.[19] This allows institutions to



tailor their campaigns and improve conversion rates, moving from a general approach to a data-driven, objective one.[9]

Intelligent chatbots and virtual assistants are also transforming student support services by providing 24/7 assistance for a wide range of administrative inquiries.[19] These AI-driven tools can handle frequently asked questions, assist with course selection, and guide students through administrative processes; thereby reducing the workload on human staff.[19] A particularly telling finding, is that students are often more likely to ask a virtual assistant basic questions they might be afraid to ask a human assistant.[29]

In the classroom, AI is helping to combat teacher burnout, by automating time-consuming tasks.[16] For example, AI-driven systems can not only grade multiple-choice quizzes, but also provide consistent and quick assessments of student writing, allowing teachers to give timely feedback on students' strengths and areas for growth.]17] A UK government report notes that the use of Generative AI among teachers increased from 17% to 42% in a six-month period in 2023, highlighting the rapid adoption of these tools for lesson planning and resource creation.[30]

4.2. The Evolution of AI from Tool to Strategic Partner

The progression of technology in educational administration can be viewed as a three-stage evolution. Early forms of automation, such as the Scantron machine, were simple mechanical tools that replicated a single human task.[10] The next phase saw the development of more advanced software that augmented human capabilities, such as automated essay grading systems that provide feedback and streamline workflows.[19]

Even though some slow down has been happening in the AI hype [36], the current and future phase of AI integration is about the technology acting as a strategic partner. This is evidenced by the use of predictive analytics to provide valuable insights into performance trends and student behavior, empowering administrators to make better, more informed decisions.[19] In this model, AI handles the repetitive and data-heavy lifting, allowing human professionals to focus on the nuanced and empathetic aspects of their roles.[16] This vision culminates in a "human-in-the-loop" model, where AI assists but does not replace educators, aligning technology with educational goals and ensuring that the human touch — which is essential for empathy, mentorship, and critical thinking — remains irreplaceable. [17]

Chapter 5: Navigating Implementation: Barriers and Best Practices

The path to digital transformation is not without its challenges. Institutional leaders must navigate a complex landscape of cultural, financial, and technical hurdles, to ensure that new technology investments lead to successful outcomes, rather than becoming instances of "innovation theater".[3]

5.1. Key Barriers to Overcome

One of the most significant barriers is cultural resistance to change.[28] The pervasive culture in education can be counteractive to technology integration, with many educators and staff being skeptical of new tools and concerned about the potential for them to exacerbate existing inequalities; or lead to data privacy issues.[10] A lack of ownership and a "we've always done it this way" attitude can prevent genuinely new approaches from being scaled and widely adopted.[3]

Another critical challenge is the digital skills gap.[32] Many administrators, teachers, and parents may lack the necessary digital literacy skills to effectively use new systems.[32] This makes targeted training and support essential for successful adoption.[32]

Financial and infrastructural limitations also present a major hurdle. The cost of implementing and maintaining these technologies, particularly for institutions in low-resource settings, can be a significant barrier.[10] A report from the State Educational Technology Directors Association (SETDA) found that only 27% of states have concrete plans to sustain funding for technology initiatives after federal relief programs end, indicating a major challenge in long-term sustainability.[33] Furthermore, many schools are burdened by legacy IT infrastructure, which makes the transition to modern, cloud-based solutions complex and time-consuming.[32]

5.2. A Nuanced Understanding of the Digital Divide

The term "digital divide" is often narrowly defined as a lack of internet access. However, a comprehensive view of the landscape reveals a more

nuanced and multi-faceted reality. The divide is not just about connectivity; it also encompasses a digital skills gap among students, teachers, administrators, and parents.[32] As such, it includes but is not limited to the issue of equitable access to devices and the financial and infrastructure challenges that prevent low-resource institutions from implementing and sustaining modern systems. [10]

Furthermore, the research points to a potential for automated systems, such as AI-driven grading, to inadvertently favor students from certain cultural or linguistic backgrounds, which could lead to biased outcomes if not designed with inclusivity in mind.[10] Therefore, a holistic approach to addressing the digital divide requires a strategy that provides not only access to technology, but also the funding to sustain it, the training to use it effectively, and the ethical policies to ensure its equitable and fair application.[17]

5.3. Strategic Recommendations for Success

Based on the research and analysis, institutional leaders can follow a strategic roadmap to successfully navigate digital transformation, under four pillars:

- **Assess Institutional Needs:** Before selecting any technology, it is crucial to conduct a thorough assessment of existing workflows, to identify the specific manual pain points that require automation.[6] This ensures that technology is chosen to solve a real problem, rather than being implemented for its own sake.
- **Champion from the Top:** Effective leadership is a significant factor in determining the success of technology implementation. [31] Leaders must not only oversee the process, but also actively listen to the needs of their staff and communicate the vision for change early and often.[32]
- **Prioritize Integration:** The analysis underscores the importance of integrated systems. Prioritizing solutions that can communicate with existing technology stacks and provide a single source of truth, is essential to avoid creating new information silos. [11]
- **Invest in People:** A new system is only as effective as the people who use it. Investing in comprehensive, role-based training and ongoing support is paramount to gaining buy-in, minimizing resistance and ensuring successful long-term adoption.[28]

APPENDIX

This appendix provides a structured synthesis of key data points from the research, to serve as a practical reference for educational leaders.

Table 1: Automatable Administrative Tasks & Benefits

Task	Key Automation Points	Core Technology	Primary Benefits
Admissions & Enrollment	Automated data entry from files, automated inquiry responses, reminders for deadlines, and centralized application management.	SIS, CRM, Workflow Automation	Reduces human effort, minimizes errors, accelerates processing, and improves student engagement. [6]
Student Information Management	Centralized data storage for attendance, grades, transcripts, and financial records.	SIS, ERP	Enhanced data accuracy, holistic view of students, and improved data-driven decision-making. [5]
Time & Attendance	Automatic tracking of hours, elimination of manual calculations, and seamless management of absences and leave.	Time & Attendance Management System	Significant time savings (e.g., 36 hours every two weeks), improved payroll accuracy, and reduced staff stress. [8]
Grading & Assessment	AI-powered grading for essays and exams, automatic scoring of quizzes, and real-time feedback to students.	AI/ML, LMS	Reduced teacher workload (e.g., up to 40% of tasks), increased efficiency, and consistent evaluation standards. [16]
Communication & Engagement	Mass notifications, two-way messaging, automated alerts, and digital forms with automatic translation.	Parent Communication Platforms, SIS	Streamlined communication, elimination of paper forms, and enhanced engagement with a diverse parent population. [26]
Course & Curriculum Management	Automated course registration, prerequisite checks, and academic approval workflows.	Workflow Automation, LMS	Ensures timely responses for students, avoids scheduling conflicts, and enhances departmental efficiency. [9]

Table 2:
Strategic Considerations for Digital Transformation

Barrier/Challenge	Associated Risk	Strategic Mitigation
Cultural Resistance	Low adoption rates, frustration among staff, and new initiatives becoming "innovation theatre" where they fail to scale.	Strong leadership from the top, effective communication to build buy-in, and involving stakeholders in the planning process. [3]
Digital Skills Gap	Inefficient use of new technology, underutilization of features, and an inability to realize the full benefits of investment.	Provide comprehensive, role-based training and continuous support. Partner with vendors that offer robust implementation and onboarding guidance. [28]
Funding & Legacy Systems	Difficulty in sustaining technology initiatives long-term, complex and costly migration from outdated systems, and operational bottlenecks.	Develop a long-term technology roadmap, explore scalable cloud-based solutions, and secure sustainable funding sources beyond one-time grants. [5]
Data Privacy & Security	Potential for data breaches, misuse of sensitive information, and erosion of trust among students and parents.	Establish and adhere to clear policies and regulatory frameworks. Prioritize solutions with robust security, encryption, and audit-ready logging. [2]
Potential for Bias	AI algorithms may inadvertently produce biased outcomes or disadvantage certain student groups, leading to inequitable results.	Regularly audit AI systems for biases, ensure transparency about their limitations, and maintain a "human-in-the-loop" model for critical decisions. [10]

Table 3:
The Digital Transformation Vendor Ecosystem

Solution Category	Example Vendors/Tools	Key Functions
Enterprise Resource Planning (ERP)	Frontline Education, Tyler Technologies, eduERP	Integration of financial, HR, payroll, and business operations. [7]
Learning Management Systems (LMS)	Docebo, Schoology, Google Classroom	Administration and delivery of educational content, automated enrollments, and reporting. [23]
Workflow Automation Platforms	FlowForma, Redwood, Book Systems	Digitizing and automating custom business processes like admissions, registration, and expense claims. [6]
AI-Powered Tools	Gradescope, Mainstay, Ocelot, AdmitHub	Automated grading, predictive analytics, and 24/7 student support via chatbots. [18]

Citations:

1. **Dhameria, V., Muazeib, A. I. M., Blhaj, K. M. S., Sugiyarsih, S., & Rosadah, R. A.** (2025). *"The Impact of Digital Transformation in Higher Education Management: Integrating Online Learning and Educational Applications for Efficiency and Accessibility"*. International Journal of Educational Qualitative Quantitative Research, 4(1), 15–24., accessed August 27, 2025, https://www.researchgate.net/publication/394803117_The_Impact_of_Digital_Transformation_in_Higher_Education_Management_Integrating_Online_Learning_and_Educational_Applications_for_Efficiency_and_Accessibility

2. **Harini, H., Ripki, A. J. H., Sulistianingsih, S., Herlina, H., & Putri, A.** (2024). *"Digital Transformation: The Utilization of Information and Communication Technology to Enhance Educational Management Efficiency in the Modern Era."* Jurnal Minfo Polgan, 13(2), 1668-1674., accessed August 27, 2025, https://www.researchgate.net/publication/386365116_Digital_Transformation_The_Utilization_of_Information_and_Communication_Technology_to_Enhance_Educational_Management_Efficiency_in_the_Modern_Era

3. Digital Transformation in Higher Education | EAB, accessed August 27, 2025, https://eab.com/resources/research-report/digital-transformation-higher-education/

4. **Boeskens, L. and K. Meyer** (2025), *"Policies for the digital transformation of school education: Evidence from the Policy Survey on School Education in the Digital Age"*, OECD Education Working Papers, No. 328, OECD Publishing, Paris, accessed August 27, 2025, https://www.oecd.org/en/publications/policies-for-the-digital-transformation-of-school-education_464dab4d-en.html

5. What is a Student Information System? - Jenzabar, accessed August 27, 2025, https://jenzabar.com/question/what-is-a-student-information-system

6. Education Workflow Automation: What It Is And Why You Need It For Your Institution, accessed August 27, 2025, https://www.redwood.com/article/education-workflow-automation/

7. K-12 Education | Tyler Technologies, accessed August 27, 2025, https://www.tylertech.com/solutions/k-12-education

8. Case Studies: How Attendance Tracking Software Transformed ..., accessed August 27, 2025, https://timeclock365.com/case-studies-how-attendance-tracking-software-transformed-businesses/

9. Education Workflow Automation: A Complete Guide - FlowForma, accessed August 27, 2025, https://www.flowforma.com/blog/education-workflow-automation

10. **Apeanti, Wilson Osafo & Owusu-Boateng, Obeng & Benuwa, Ben & Salifu, Anas & Saad, Mohammed & Mohammed, Majeed.** (2025). *"Automated Administrative Tasks in Education."* 10.70593/978-93-49307-53-7_3., accessed August 27, 2025, https://www.researchgate.net/publication/390918992_Automated_Administrative_Tasks_in_Education

11. Case Study: Frontline Time & Attendance Management System, accessed August 27, 2025, https://www.frontlineeducation.com/solutions/absence-time/insights/time-and-attendance-management-system-case-study/

12. Automation for Student Admission Process - International Journal of ..., accessed August 27, 2025, https://www.ijres.org/papers/Volume-9/Issue-6/Ser-4/E09063942.pdf

13. The Top Benefits of a Student Information System (SIS) - Rediker Software, accessed August 27, 2025, https://www.rediker.com/benefits-of-student-information-system

14. Student Information Management Systems (SIS) Explained - Education Horizons, accessed August 27, 2025, https://www.educationhorizons.com/blog/student-information-management-systems-sis-explained

15. **Krein, U.** (2025). *"Exploring the Transformative Impact of Technology on School Leadership. Affordances, Practices, Implications."* Leadership and Policy in Schools, 24(1), 90–102., accessed August 27, 2025, https://www.tandfonline.com/doi/full/10.1080/15700763.2024.2440902

16. **Donnie Adams & Pauline Thompson** (2025) *"Transforming School Leadership with Artificial Intelligence: Applications, Implications, and Future Directions,"* Leadership and Policy in Schools, 24:1, 77-89, DOI: 10.1080/15700763.2024.2411295, accessed August 27, 2025, https://www.tandfonline.com/doi/full/10.1080/15700763.2024.2411295

17. DOE Report: AI's Role in the Future of Education - Excel High School, accessed August 27, 2025, https://www.excelhighschool.com/blog/doe-report-ais-role-in-the-future-of-education/

18. How Leaders Can Use AI in Education | Marymount University, accessed August 27, 2025, https://marymount.edu/blog/how-leaders-can-use-ai-in-education/

19. AI in Higher Education: Automating Grading, Admissions, and Student Support - Reddit, accessed August 27, 2025, https://www.reddit.com/r/NextGenAITool/comments/1mevy5p/ai_in_higher_education_automating_grading/

20. Automate Student Admissions Processes in 2024 | Element451 ..., accessed August 27, 2025, https://element451.com/blog/how-to-automate-student-admissions-processes

21. eduERP® – A white Paper What is ERP Solution? - CR2, accessed August 27, 2025, http://www.cr2.in/pdf/whitepapers/White_Paper_eduERP.pdf

22. Frontline Education | K-12 School Administration Software, accessed August 27, 2025, https://www.frontlineeducation.com/

23. Learning management system - Wikipedia, accessed August 27, 2025, https://en.wikipedia.org/wiki/Learning_management_system

24. How to Reduce LMS Administration Time with Automation - Docebo, accessed August 27, 2025, https://www.docebo.com/learning-network/blog/how-to-reduce-lms-administration-time/

25. 39 Examples of Artificial Intelligence in Education - University of San Diego Online Degrees, accessed August 27, 2025, https://onlinedegrees.sandiego.edu/artificial-intelligence-education/

26. ParentSquare: Unify All Communication Tools, accessed August 27, 2025, https://www.parentsquare.com/

27. Parent Communication Ebook | ESSA - TransAct, accessed August 27, 2025, https://www.transact.com/parent-communication-ebook-essa

28. The Ultimate Guide to Implementing a Student Information System in ..., accessed August 27, 2025, https://www.classter.com/resources/ebooks-and-whitepapers/ebooks/the-ultimate-guide-to-implementing-a-student-information-system-in-higher-education/

29. How AI is assisting students teachers and administrators today - Tribal Group, accessed August 27, 2025, https://www.tribalgroup.com/blog/how-ai-is-assisting-students-teachers-and-administrators-today

30. Generative AI in education - Educator and expert views - GOV.UK, accessed August 27, 2025, https://assets.publishing.service.gov.uk/media/65b8cd41b5cb6e000d8bb74e/DfE_GenAI_in_education_-_Educator_and_expert_views_report.pdf

31. **Berrett, B., Murphy, J., & Sullivan, J.** (2012). *"Administrator Insights and Reflections: Technology Integration in Schools."* The Qualitative Report, 17(1), 200-221. https://doi.org/10.46743/2160-3715/2012.1815, accessed August 27, 2025, https://nsuworks.nova.edu/cgi/viewcontent.cgi?article=1815&context=tqr

32. Digital Transformation in K-12 Education (+Examples) - Whatfix, accessed August 27, 2025, https://whatfix.com/blog/digital-transformation-in-k-12-education-examples/

33. Press Release: Report: Only 27% of States Prepared to Sustain K-12 Digital Access as Federal Programs End - Leadership, Technology, Innovation, Learning | SETDA, accessed August 27, 2025, https://www.setda.org/news/press-releases/press-release-2025/report-only-27-of-states-prepared-to-sustain-k-12-digital-access-as-federal-programs-end/

34. **Anisyah, Nur & Rohman, Taufiq & Novalina, Sesti & Lubis, Putri & Rahman, Arsanur & Ariyani, Rika.** (2025). *"The Role Of Information Technology In Enhancing The Effectiveness Of Education Management In Schools."* IJGIE (International Journal of Graduate of Islamic Education). 6. 136-147. 10.37567/ijgie.v6i1.3669., accessed August 27, 2025, https://www.researchgate.net/publication/390301752_The_Role_Of_Information_Technology_In_Enhancing_The_Effectiveness_Of_Education_Management_In_Schools

35. Book Systems | PowerSchool, accessed August 27, 2025, https://www.powerschool.com/company/partners/book-systems/

36. MIT study shatters AI hype: 95% of generative AI projects are failing, sparking tech bubble jitters, accessed September 10, 2025, https://economictimes.indiatimes.com/magazines/panache/mit-study-shatters-ai-hype-95-of-generative-ai-projects-are-failing-sparking-tech-bubble-jitters/articleshow/123428252.cms

DreamClass

Did you find this guide helpful?

Share it with someone else!