



# Framework for Implementing Artificial Intelligence (AI) in K-12 Education



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# OVERVIEW

In developing the Framework for Implementing Artificial Intelligence (AI) in K-12 Education, our objective was to establish a practical, actionable resource for state and district superintendents and their leadership teams. This guide is designed for those who are enthusiastic about AI's potential, but may feel uncertain about where to begin (or proceed next). AI has become a pivotal presence in our world and the decisions by leaders to embrace this technology will signal how they intend to lead during this time of change.

Our framework is broken down into two pivotal sections. First, we delve into district-wide considerations, organizing our thoughts around the political, operational, technical, and fiscal dimensions. These considerations are not just boxes to tick but are fundamental pillars that will support districts as they navigate the complexities of integrating AI into their educational ecosystems. For state leaders, this tool may help to shape questions you guide districts to consider in your work ahead with them.

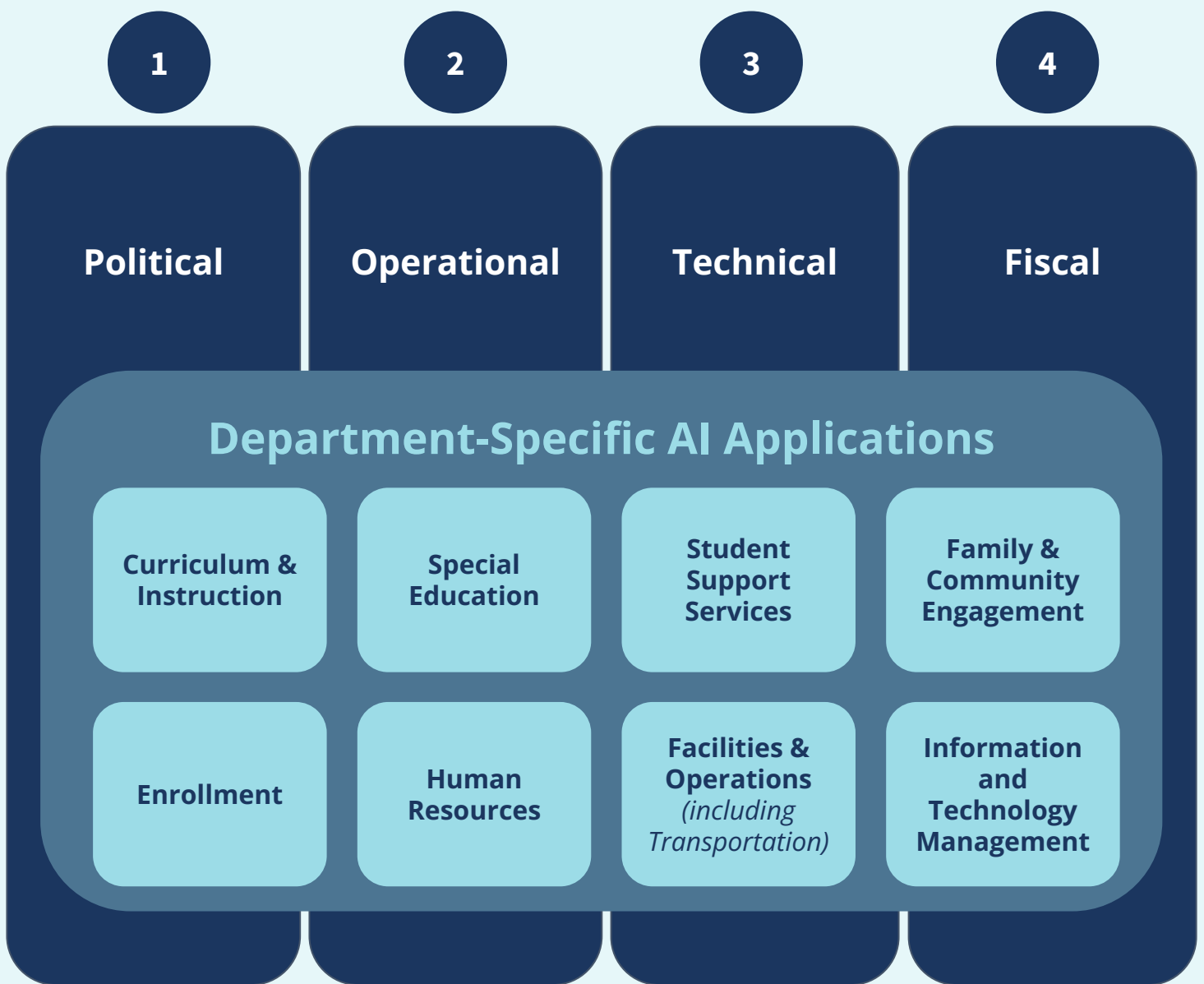
Then, we transition to the department-specific applications, bringing AI from the abstract to the concrete. Here, we provide real-world scenarios that spark the imagination—envisioning AI as a tool to tailor education with unparalleled precision or lighten the load of routine administrative tasks. These examples aren't merely speculative; they demonstrate AI's capacity to enhance the educational experience, making it more dynamic, personalized, and accessible for every student. For states, additional considerations go beyond the scope of this initial framework and will be the topic of future drafts.

For all sections of the framework, we want to emphasize the role of AI as a supportive tool, while ensuring that human direction, oversight, and quality assurance are maintained at all times. Our hope is that this framework serves as a call to action, urging us to lead with a vision, embracing the innovations AI offers while conscientiously mitigating its risks.

*Aware of AI's evolving role in education, we commit to frequently updating this framework, ensuring it remains a relevant guide. We welcome your insights and feedback. Please share your thoughts with us at [ismith@ilgroup.com](mailto:ismith@ilgroup.com).*

# FRAMEWORK FOR IMPLEMENTING ARTIFICIAL INTELLIGENCE (AI) IN K-12 EDUCATION

## District-Wide AI Areas of Considerations



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## **PART ONE**

# **District-Wide Artificial Intelligence (AI) Areas of Considerations**

**1**

**Political**

**2**

**Operational**

**3**

**Technical**

**4**

**Fiscal**

# POLITICAL

# 1.

## **Develop an AI Policy document**

Draft an AI policy document focusing on strong, basic guidance for using AI in the district. You may consider outlining the district's vision, goals, and ethical guidelines for AI use.

- Policy may include current AI opportunities and challenges, as well as the need for humans to provide active oversight.
- This policy document can also be used to outline district's commitments to ethical AI use, focusing on fairness, transparency, and accountability.
- Trustible.ai created an [Applied Ethical AI Framework](#) that you may consider reviewing for ethical guidelines.

Given how rapidly AI is changing you may want to avoid complex policies that are difficult to refine as the technology evolves and focus on principles.

# 2.

## **Leverage AI to enhance the speed and efficacy when creating community polls and surveys, interpreting the results, and tailoring next steps**

Support the development and enhancement of surveys, polls, and other modes of feedback on key community issues using AI, including the incorporation of strategic questions that allow for cross-tabulation analysis later on. Then use AI analytical tools to conduct a thorough assessment of stakeholder perspectives and sentiments, creating several different stakeholder user profiles. Finally, employ AI to generate precise talking points, design engaging brochures, and produce compelling multi-media advertisements, each customized for the specific user profiles.

# 3.

## **Building upon existing communication protocols, establish systems for the notification, investigation, and response to Fake AI Incidents**

Form a dedicated response team involving IT, legal, communications, and administration for quick action on fake AI incidents. Conduct regular training and drills for the response team to ensure preparedness.

Develop and maintain a suite of crisis communication templates and protocols tailored to various fake AI scenarios, focusing on clear, accurate, and rapid dissemination of information.

Implement a reporting system for staff, students, and caregivers to flag suspected fake AI content.

Establish the tools and partners the district can use to detect deep fakes and manipulated images. This may include a detection software, or pre-establishing a list of external experts who specialize in digital forensics.

Proactively inform and engage caregivers and the school community about the risks of fake AI content and the district's response strategies.



## 4. **Consult your legal-team on if/when the district needs caregivers to consent to different AI tools in the classroom**

The Family Educational Rights and Privacy Act (FERPA) allow teachers to use educational software without caregiver permission as long as it has a legitimate educational interest and limits the resharing of information, according to education lawyer Gretchen Shipley at the annual California IT in Education Conference. However, AI tools may exceed these exceptions, particularly for students under 13, depending on whether the tools are from an open or closed environment and where their data goes (Westrope, 2023).

Be clear on which AI tools will or will not require caregiver consent.

## 5. **Form a district-wide AI steering committee**

Establish a committee with representatives from positions all across the district to provide guidance and feedback. This should include instructional and non-instructional staff from both schools and central office, as well as designated representatives from the legal, communication, and IT departments.

Clearly outline the committee's role and objectives.

- Role: Will the steering committee act in an advisory capacity or will the superintendent expect them to present formal recommendations?
- Objectives: Is the steering committee intended to help shape district policy, provide feedback on potential district AI initiatives, conduct User Acceptance Testing (UAT) on AI programs, or have a more hands-on role in the learning process from the AI roll-out and utilization?

## 6. **Focus on building stakeholders AI understanding by cultivating a culture of feedback**

Facilitate regular forums to discuss AI impacts and gather stakeholder input. These forums can serve as platforms for information exchange, addressing concerns, and gathering input. It's important to create an open environment where stakeholders can express their concerns and suggestions freely, and where new issues can surface as this evolves.

Families are going to turn to their child's classroom teacher and school principal when they have questions or concerns about AI in the classroom. As a result, focus on building school-based staff members' familiarity with AI, including opportunities and potential trade-offs.



# OPERATIONAL

- 1. Develop a District-Wide AI Introductory Training Program**  
Create an introductory training program for educators, administrators, board members, families, and students focused on AI tools and applications. Include specific training modules on AI ethics, data handling, and privacy concerns.

For staff, highlight ways that AI can be used to jumpstart the work they are already doing and allow them to focus more often on the tasks that only they can do.

- 2. Ensure that all students, regardless of their background, have equal access to AI learning tools and resources**  
While there are free versions of AI tools available, they often come with limitations and can be lower functioning. Districts should ensure that all students, regardless of their socioeconomic status, have access to similar, higher-quality, premium AI learning tools.

- 3. Revise Digital Literacy Curriculum to account for AI**  
Update your students' digital literacy curriculum by focusing on understanding and interacting responsibly with AI technologies. Material may include:
  - Basics of AI: Introduce students to the principles of AI, including machine learning and natural language processing.
  - Ethical AI Use: Teach about the ethical implications of AI, including privacy concerns and bias in AI algorithms.
  - Safe Online Behaviors: Include basic information on how students can protect their personal data and practice safe online behaviors.

- 4. Implement an AI Purchasing Sign-off & Integration Roadmap**  
Develop a roadmap for piloting AI across various departments, with clear timelines and milestones.

Consider leveraging smaller AI pilot programs to allow staff to become more familiar with the technology and its capabilities.

Determine a sign-off process for ensuring department and academic coherence between AI products that are rolled out, including the functionality of the different programs and their intended usage.



## 1. **Conduct a Technology Audit**

Perform a detailed audit of existing technological resources and identify gaps for AI implementation.

Assess network security, internet connectivity, hardware adequacy, and software needs.

Ensure your district implements a security framework, including protections against bad actors.

Continue prioritizing the implementation of robust security measures to protect sensitive information, especially student data.

## 2. **Review Third-Party Vendor Contracts**

Review existing contracts that include AI to ensure the contracts clearly outline how AI is being used in the software and how the AI was trained, include similar review processes for future contracts.

Have a system to ensure the district understands how vendors (both existing and future vendors) will notify them if they are adding AI into existing tools through software updates (an increasingly common practice).

Determine if your district requires third-party vendors to have guardrails in place to filter inappropriate content and detect hallucinations.

## 3. **Set Up AI-Specific District-Wide IT Support & Feedback Loops**

Establish a dedicated IT support helpline for AI-related queries and technical assistance.

Establish a feedback loop where staff can report inaccuracies or anomalies in any of the AI's system's alerts.

Provide regular maintenance and updates to AI systems to ensure optimal performance.

- 4. Conduct a data-integrity check for any data AI systems will potentially use**
  - Conduct an in-depth examination of data quality for any data that will feed into the AI system, this includes checking attendance records, student demographics, and other relevant data sources for errors or inconsistencies. Inaccurate data can lead to faulty predictions and biases in the system.
- 5. Conduct performance validation tests for any predictive analytic applications**
  - Test the AI system's performance using historical data to see how well it would have predicted historical cases. Evaluate the system's sensitivity (true positive rate) and specificity (true negative rate) on historical data. This helps in understanding how well the AI can correctly identify potential warnings without flagging too many false positives to staff.

## 1. Outline a specific budget for AI initiatives, including hardware/software, maintenance, oversight, and training expenses.

### Hardware and Software Acquisition

- Initial Purchase: Costs for computers or devices capable of running AI applications, including upgrades to existing hardware if necessary.
- AI Software Licensing: Expense of purchasing enterprise licenses to AI software or platforms tailored for educational purposes.
- Networking Infrastructure: Investment in robust internet connectivity and potentially upgrading network hardware (routers, Wi-Fi extenders) to support AI applications.
- Custom Development: If custom AI solutions are needed, consider the costs for development, which might include hiring external consultants or developers.

### Recurring Fees & Maintenance Costs

- Software Updates and Upgrades: Regular updates to AI software and potentially recurring subscription fees.
- Hardware Maintenance: Costs for repairing and maintaining hardware, including replacements for outdated or malfunctioning computers.
- IT Support: Additional IT support for troubleshooting, technical assistance, and ensuring smooth operation of AI technologies.

### Oversight and Compliance

- Legal Guidance: Costs related to establishing ethical guidelines and governance structures for AI use, including potential legal consultation fees.
- Audit and Compliance Costs: Expenses associated with regular audits to ensure compliance with educational and data privacy regulations.

### Training and Professional Development

- Expenses related to developing and delivering a comprehensive introduction to AI for all staff members, both in schools and at the central office. This includes an overview of AI concepts, potential benefits, and ethical considerations.
- Investment in creating user-friendly materials and resources, such as guides, FAQs, and video tutorials, to support ongoing learning.
- Costs associated with developing and delivering specialized training for teachers and staff to integrate AI into their specific roles and responsibilities. This includes classroom applications, administrative tasks, and data analysis.
- Investment in training sessions focused on specific AI software or platforms used in the district. This could involve direct training from vendors or hiring external trainers.
- Budget for ongoing training sessions, refresher courses, and advanced training to ensure staff stay updated with the latest AI developments and educational applications.



## 2.

### **Set-up and later conduct Comprehensive ROI Analysis on different AI programs that are used**

Establish a systematic process for conducting ROI analysis on various AI programs, starting from initial implementation and continuing at regular intervals.

- Incorporate a range of metrics in the ROI analysis, including not just financial costs and benefits, but also educational outcomes, student engagement, teacher satisfaction, and efficiency improvements.

Develop a regular cadence for comparing the performance and ROI of different AI programs, considering not only their individual impacts but also how they complement or overlap with each other.

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## PART TWO

# Department-Specific Artificial Intelligence (AI) Applications

**Curriculum &  
Instruction**

**Special  
Education**

**Student  
Support  
Services**

**Family &  
Community  
Engagement**

**Enrollment**

**Human  
Resources**

**Facilities &  
Operations**  
*(including  
Transportation)*

**Information  
and  
Technology  
Management**

When AI programs and applications support district departments, it's important to acknowledge associated risk profiles. We've outlined a few risk profiles to help leaders spot potential problems early on. These profiles are here to guide us, helping to make decisions that keep our students' best interests at heart as we introduce AI into the educational setting.

*Risk Profiles:*

## Potential Risks of Inaccurate Communication

This category highlights the risks associated with potential AI communication errors when conveying information to stakeholders. It encompasses concerns over misinterpretation or misinformation due to AI's limitations in accurately processing and relaying complex information.

## Potential Bias and Privacy Risk

This category addresses concerns about how AI applications handle student data and privacy. It includes risks related to misuse of personal information, and potential biases in AI algorithms that could lead to unfair treatment of students based on race, gender, or other characteristics.

## Potential Technological and Operational Risks

This encompasses the risks associated with the technical reliability and operational integration of AI systems in schools. It includes issues like system failures and compatibility with existing infrastructure.

## Potential Educational and Pedagogical Risks

This category focuses on how AI applications might affect the learning process and educational outcomes. Risks could include over-reliance on technology and inadequacy in addressing diverse learning needs.

## Potential Legal and Compliance Risks

This involves risks related to the legal aspects of using AI in an educational setting. It includes compliance with educational laws and regulations.

*Note: These are common examples of risks; however, this list is not exhaustive and other risks that are not mentioned here may also apply.*



## Individualized Learning

### IMPLEMENTATION EXAMPLES

Students interact with AI for additional explanations or clarifications on topics using their own interest areas. For example, a student could request AI to provide further examples or additional details on the symmetry of shapes using examples from their favorite movie.

Teachers can use AI to generate personalized lesson plans for students that have mastered the material and are looking for additional applications. The teacher can use AI to expand upon the classroom lesson by having it create supplementary materials and customized “stretch” exercises for students that need more challenging materials.

### VALUE-ADD

Tailoring lessons to individual student needs

Providing additional support for struggling students

Enabling advanced students to explore more challenging topics

## Tutoring Assistance

### IMPLEMENTATION EXAMPLES

AI tutoring systems can supplement one-on-one tutoring experiences that are coherent with academic curriculum, providing students with immediate feedback, explanations, and guidance on a wide range of subjects even when they aren't in tutoring. The tutoring systems can adapt to the learner's style, pace, and preferences, offering explanations and problem-solving strategies that suit the student's current level of understanding. It is important that tutoring providers integrate with the instructional materials used to ensure proper coherence.

Students submit sample homework examples for guidance. AI then provides step-by-step solutions and hints, without giving the answers, to scaffold the content and support the student. Students have the ability to request additional practice exercises.

### VALUE-ADD

Supporting students who need extra assistance outside regular hours



# CURRICULUM & INSTRUCTION

(Part 2/3)

RISK

## Curriculum & Instruction Enhancement

### IMPLEMENTATION EXAMPLES

A teacher can leverage AI to create interactive simulations and virtual experiments that would be too unrealistic to conduct in class. For example, a science teacher might use an AI-generated simulation to conduct a virtual chemistry lab where students can experiment with different chemical reactions safely.

A teacher can use AI to bring stories to life by taking pictures of certain book pages, having AI describe what is happening, and then have it create a corresponding visualization.

AI's content generation capabilities can be used to hone a student's creative side. For example, students can bring their creative writing piece to life in art class by creating an AI-generated movie poster to advertise their story.

Virtual field trips and experiences can be created using AI's content generation capabilities. For example, if students are learning about the roman empire, AI can generate experiences for students to walk through the colosseum.

Utilizing AI to evaluate the effectiveness of different curriculum content and instructional strategies to refine educational programs. For example, AI can analyze student performance data on assessments to identify which parts of the curriculum were most effective and which areas need revision (including the specific areas that need additional attention) to ensure the curriculum remains relevant and impactful.

### VALUE-ADD

Enhancing student engagement and understanding through immersive, hands-on learning experiences

Offering customizable and inclusive educational content that can adapt to different learning needs and styles



## Professional Development

### IMPLEMENTATION EXAMPLES

AI can support instructional leaders and teachers in creating customized professional development (PD) plans by analyzing their teaching styles, classroom performance, student feedback, professional interests, and instructional leader feedback. For instance, if a teacher's students are less engaged during math lessons, the AI can recommend specific PD modules focused on innovative math teaching strategies or new math technologies. This ensures that PD is directly relevant to the teacher's needs and can have an immediate impact on classroom effectiveness.

AI-driven virtual coaching platforms can provide teachers with real-time feedback on their instructional practices. By analyzing videos of classroom instruction, AI can identify strengths and areas for improvement, such as classroom management, engagement techniques, and clarity of instruction. It can then ask customized reflection questions, tailored on the teacher's specific focus area, to highlight moments where student engagement drops or where questions stimulate higher-order thinking, offering targeted advice for improvement.

### VALUE-ADD

Dynamic and responsive professional growth support

# SPECIAL EDUCATION

RISK

## Individualized Education Plan (IEP) Writing

### IMPLEMENTATION EXAMPLES

Special education departments can integrate AI into IEP management systems to support teachers in identifying potentially appropriate accommodations based on the student needs, support the teacher in setting strong measurable goals, and including customizable sample text for the teacher to modify based on the student's needs.

### VALUE-ADD

Acting as a tool for teachers as they customize and manage IEPs for students with disabilities

## Increase Student Accessibility

### IMPLEMENTATION EXAMPLES

AI can increase accessibility for students. AI-powered tools can be used to translate text into speech, interpret speech into text, provide real-time feedback on pronunciation and fluency, and more.

AI-powered applications can assist in language learning by offering pronunciation correction, vocabulary building exercises, and grammar lessons customized to the learner's proficiency level. These applications often include conversational bots that allow for practice in a simulated real-world context.

### VALUE-ADD

Potential to reduce barriers for students with disabilities

Potential to provide additional opportunities for students who many need help

## Communication of Special Education Process / Accommodations

### IMPLEMENTATION EXAMPLES

Utilize AI to break down jargon and difficult to understand information for students and caregivers about the special education referral process and the student's IEP itself so they understand what next steps are and what special accommodations their student should expect.

### VALUE-ADD

Enhances communication between schools, caregivers, and students

# STUDENT SUPPORT SERVICES

RISK

## Predictive Analytics for At-Risk Students

*Note: Districts should test to confirm predictive analytic recommendations are trustworthy and recognize and communicate any biases before being deployed. Districts should ensure the data being fed into the system is accurate (inaccurate data can lead to faulty predictions), understand how the algorithm processes data from different student groups based on race, gender, etc, and test the system using historical data to see how well the system would have predicted past cases and proactively address future discrepancies. Predictive analytics should be used cautiously.*

### IMPLEMENTATION EXAMPLES

Use AI technology to create an early warning indicator system for chronic absenteeism by flagging patterns in student attendance to staff sooner, drafting reminders for staff to send to families about the importance of attending school, and proactively reaching out to students to understand why they have been missing more school. All of the communication can be instantly translated into other languages for caregivers and students.

Create a multi-tiered system of support by integrating data from disparate sources like attendance records, grades, behavioral reports, and social-emotional learning assessments. Use AI algorithms to identify patterns and signals that indicate a student may be at risk (e.g., frequent absences, declining grades, disciplinary issues). For example, if a student's grades suddenly drop, combined with increased absenteeism, the AI system can flag this student for the counselor and provide a list of potential interventions for the counselor to consider. This allows for early intervention, ensuring that students get the support they need before issues escalate.

### VALUE-ADD

Potential to proactively identify interventions or additional support systems for students who may be at risk of dropping out or failing a class, enabling early intervention

## Course Advising

### IMPLEMENTATION EXAMPLES

AI can help students plan their course trajectories to align with their future goals. For example, AI can take the student's post-graduate goals and provide recommendations of courses to take and the recommended sequencing of those classes. It can also flag if the student is no longer on track to meet their goals or to graduate, and provide recommendations of potential options.

### VALUE-ADD

Provides students with alternative pathways that may be better aligned to their interests

# FAMILY & COMMUNITY ENGAGEMENT *(Part 1/2)*

RISK



## Family Communication

### IMPLEMENTATION EXAMPLES

Districts can integrate AI into communication systems to provide more frequent updates to caregivers on student performance and school activities. For example, a caregiver might ask, "How is my child doing in math this semester?" the AI bot accesses the student's grade records, provides a detailed response, shares any noteworthy achievements or areas for improvement, and can provide recommendations of next steps in the caregiver's language of choice.

Districts can leverage AI to enhance communication with families by adopting best practices. This includes simplifying messages and adapting them to a 3rd-grade reading level for broader understanding, ensuring clear, accessible communication, that is catered to diverse literacy levels within the school community.

AI can assist in generating clear and concise messages for the community during emergencies. For example, during a sudden school closure due to inclement weather, the school district utilizes AI to swiftly generate clear and concise emergency messages, ensuring that caregivers, students, and staff receive timely and accurate information via automated phone calls, text messages, and social media postings in the language of their choice.

AI tools can analyze feedback, detect shifting sentiments among caregiver groups, and develop suggested messaging. For example, district can monitor caregiver feedback on a new educational initiative, identify changing sentiments among various caregiver groups, and generate targeted messaging to clarify and address concerns, ensuring effective communication and understanding of the initiative's specifics.

### VALUE-ADD

Enhancing communication between schools and caregivers

Providing timely updates on student progress

# FAMILY & COMMUNITY ENGAGEMENT *(Part 2/2)*

RISK

## Community Outreach

### IMPLEMENTATION EXAMPLES

AI can facilitate community engagement by providing information on school programs and inviting feedback. For example, Districts can use AI to send out detailed updates about a new STEM enrichment program to caregivers and community members, while also collecting and analyzing their feedback to gauge interest levels and suggestions for improvement, ensuring the program is well-received and meets community needs. All while conversing in the caregiver's language of choice.

Leverage AI to analyze community survey results, identifying the top five reasons for support for particular initiatives and measures, and then utilize these insights to create compelling messaging materials, including brochures, slogans, and radio ads, by applying principles of marketing for effective communication.

### VALUE-ADD

Engaging with the community to foster a collaborative educational environment

## Language Translation

### IMPLEMENTATION EXAMPLES

Districts can use AI for language translation services. Specifically, AI can provide translations for communication materials into any language, ensuring accessibility for families with diverse language backgrounds. It can also be used to translate information and communication materials from caregivers into English for the district staff to use and incorporate.

### VALUE-ADD

Facilitating communication in diverse communities

# ENROLLMENT

RISK



## Information Prospective Students/ Application Process

### IMPLEMENTATION EXAMPLES

Districts can use AI to support families in understanding their school options. It can generate recommendations of schools based on the student's interests, home address, and special considerations in the family's language of choice. It can also share eligibility criteria for different programs, and provide students and families with a customized timeline for completing application materials.

Districts can integrate AI into school choice and enrollment systems to provide more customer support for families. AI can guide applicants through the completion of enrollment forms, providing clarifications, translate the content into other languages, and answer common enrollment inquiries. It can then provide status updates and send reminders of any outstanding forms.

### VALUE-ADD

Offering detailed information about enrollment requirements and procedures

Assisting prospective students and caregivers

Enhancing the enrollment experience for prospective students

Ensuring timely and accurate status updates

## Scheduling

### IMPLEMENTATION EXAMPLES

AI can help schedulers create optimized schedules based on staff availability and student interest. For example, AI can generate optimized schedules that take into account constraints such as class sizes, teacher availability, and student interests.

### VALUE-ADD

Allows staff to build optimized schedules faster and allow them to test different scheduling use-cases quickly.

# HUMAN RESOURCES

(Part 1/2)

RISK

## Recruitment Support/Onboarding

### IMPLEMENTATION EXAMPLES

AI can support the district in generating and updating job descriptions to closely align with the job at hand, verifying candidates credentials match the requirements of open positions, and support the district in efficiently scheduling interviews.

HR departments can integrate AI into onboarding platforms. AI can guide new employees through onboarding tasks, including paperwork completion and training schedules.

AI can offer explanations of available benefits, eligibility criteria, and enrollment steps to staff members, to ensure they are aware of their options.

### VALUE-ADD

Streamlining the recruitment process/ assisting new employees in completing onboarding tasks

Reducing administrative workload for HR staff

Reducing errors in the onboarding processes

## HR Policy & Guidance

### IMPLEMENTATION EXAMPLES

AI can generate easily understandable explanations and guidelines for employees regarding HR policies, and support employees in finding the answers they are looking for.

AI can assist employees in submitting PTO requests, check sick leave balances, and provides information on leave policies.

### VALUE-ADD

Streamlining the request process

Reducing administrative workload for HR staff



# HUMAN RESOURCES

(Part 2/2)

RISK

## Payroll

### IMPLEMENTATION EXAMPLES

AI can provide information on payroll schedules, deductions, and tax forms, as well as assistance with payroll-related queries.

### VALUE-ADD

Offering information on payroll schedules, deductions, and tax forms

Assisting employees with payroll-related inquiries

## Performance Evaluation Support

### IMPLEMENTATION EXAMPLES

AI can create performance goals, self-assessments, and review procedures. For example, a district with a novice teaching staff, that display varying strengths and weaknesses, can create personalized professional development plans by evaluating teachers' performance data so AI can recommend specific areas for improvement and suggest targeted training programs.

### VALUE-ADD

Facilitates tailored professional learning by identifying specific areas for improvement and suggesting relevant training programs

# FACILITIES & OPERATIONS

*(including transportation)*

RISK

## Predictive Analytics for Facilities

### IMPLEMENTATION EXAMPLES

Districts can use predictive analytics to proactively determine when new system parts will be needed or when the time has arrived to fully replace items in a school. For example, by predicting when HVAC systems might need to be replaced, the district can strategically plan and allocate resources, avoiding sudden large expenditures and ensuring financial resources are used effectively over time.

### VALUE-ADD

Districts can proactively address system failures or maintenance requirements.

Utilizing predictive analytics promotes a culture of data-driven decision-making, fostering more objective and transparent processes.

## Transportation

### IMPLEMENTATION EXAMPLES

Emerging updates to transportation software can make optimizing bus routes based on traffic conditions, the age and location of assigned students, and the vehicles' gas mileage easier for district staff to customize. For example, AI-driven route optimization means fewer buses might be needed to transport the same number of students, leading to reduced operational costs such as fuel, maintenance, and personnel expenses.

### VALUE-ADD

Utilizing advanced analytics in route planning facilitates more informed and efficient decision-making processes.

# INFORMATION & TECHNOLOGY MANAGEMENT *(Part 1/2)*

RISK



## Data Management and Analysis

### IMPLEMENTATION EXAMPLES

Districts can use AI to analyze data sets and generate reports on student performance and attendance. For example, in a school district experiencing a sudden drop in student enrollment the district can use AI to analyze extensive data sets encompassing student enrollment records, birth rates, exit survey data and demographic information to proactively identify potential interventions.

AI can help forecast budgets, track expenses, and predict financial needs, thereby optimizing resource allocation. For example, school districts facing uncertain state funding can implement AI-powered budgeting and financial management software, which analyzes historical financial data, enrollment trends, and economic indicators. This enables the district to proactively allocate resources to critical areas, plan for potential funding shortfalls, and make informed decisions that enhance the overall financial stability and educational experience for students.

### VALUE-ADD

Assisting in data analysis and interpretation

Generating reports and insights from educational data



## IT Helpdesk Support

### IMPLEMENTATION EXAMPLES

District leaders integrate AI into the IT helpdesk system. AI can automate responses to common queries and streamline communication to the IT helpdesk within the district.

### VALUE-ADD

Quick resolution of common technical issues

24/7 availability for support

# INFORMATION & TECHNOLOGY MANAGEMENT *(Part 2/2)*

RISK

## IT Policy and Procedure Guidance

### IMPLEMENTATION EXAMPLES

District leaders can input technology policies and procedures to generate easily understandable explanations and guidelines for staff.

District leaders can audit existing IT security and compliance standards. For example, a district seeking to strengthen its IT security and compliance measures can input their current IT policy requirements and compliance standards. AI can then analyze potential IT policy needs, taking into account factors such as industry regulations, data protection requirements, and best practices. By doing so, the district can ensure alignment with relevant compliance standards.

### VALUE-ADD

Providing easy-to-understand information on IT policies and procedures

Assist staff in understanding and following IT protocols

# ABOUT ILO GROUP

*Invested in Leaders. Invested in Change.*

## Our Story

We're a proudly women-owned education strategy and policy firm. ILO Group was built on a simple, shared mission: to roll up our sleeves and do whatever it takes to support K-12 system leaders' big bets – from continuing to respond to student needs exacerbated by the pandemic to supercharging education through the implementation of generative artificial intelligence.

**Our name, ILO Group, stands for In the Life Of.**

We work side-by-side with the country's leading educators, experts, and government partners to help solve the toughest challenges facing school systems and leaders today—because we've been in their shoes. Through our work, we have supported leaders serving 1 in 3 students in America.

## How We Can Help

We offer a range of services that can be combined and tailored for a truly custom approach to meet your system or organization's needs, including:

**Comprehensive Project Management & Implementation Support**

**Policy Development & Implementation**

**Strategic Planning & Initiative Development**

**Leadership Development,**  
*including 1:1 Executive Coaching & Cohort Facilitation*

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# ACKNOWLEDGEMENTS & SOURCES

***This framework would not have been possible without the contributions of the following:***

- Julia Rafal-Baer
- Laura Smith
- Alexandra Peña
- Sabrina Solares-Hand

***This framework was developed leveraging several sources of knowledge:***

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