

# BEYOND BOOKS: AUTOMATION TRENDS IN EDUCATION



As new technologies enable online learning and shifting revenue models, K-12 and Higher Education Institutions are taking advantage of automation to streamline administrative processes so they can focus more resources on their primary mission.

## HIGHER EDUCATION IS IN TRANSITION



Costs are rising

**\$120 billion**

Estimated losses that universities have incurred due to the COVID-19 pandemic.<sup>1</sup>



But budgets are shrinking

**27**

Number of states that have imposed spending cuts for state fiscal year 2020 or 2021.<sup>2</sup>

While more classes are moving online



● **44%** of higher education institutions developed fully or primarily online instruction.<sup>3</sup>

● **21%** used a hybrid model.<sup>3</sup>

## TECHNOLOGY BRINGS CHANGE

IT investments are on the rise



**\$4.5 billion**

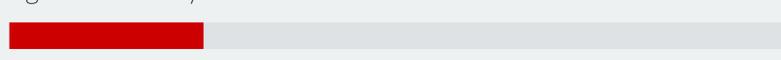
Global education technology venture capital investments in the first half of 2020, the second highest ever for a half year.<sup>4</sup>



**\$1.54 billion**

Expected growth of 3D printing market in education between 2020 and 2024.<sup>5</sup>

**25.4%** Compound annual growth rate of global cloud computing market in higher education by 2027.<sup>6</sup>



## TOP TECHNOLOGY PRIORITIES

Top priorities cited by education IT leaders in K-12 and Higher Education include:<sup>7</sup>



Cloud monitoring



IT cost management

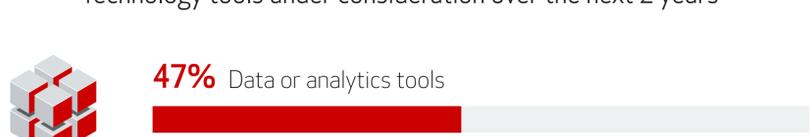


Integrating legacy systems with new applications

How education tech leaders allocate their budgets<sup>7</sup>



Technology tools under consideration over the next 2 years<sup>7</sup>



## THE PATH TO DIGITAL TRANSFORMATION

To fully leverage the benefits of digitalization, automated workflows will be essential.

Printing technologies that help enable automated workflows include:

- ✓ Automated document preparation
- ✓ Secure, personalized scanning and printing technologies
- ✓ Centralized control of printers and multifunctional printing devices
- ✓ Secure mobile printing
- ✓ Device integration with student ID card solutions
- ✓ Visibility, including the use of dashboards, to monitor printer usage
- ✓ Automated job schedulers that help plan ahead for production
- ✓ Remote job submission, management, and monitoring to help maximize efficiencies
- ✓ Multiple authentication methods
- ✓ Digital or analog input files collected and combined into a single document
- ✓ Document preparation software that allows users to make late-stage corrections prior to printing
- ✓ Finishing instructions that eliminate manual entry of job properties data and validate finishing settings in production

To learn more about the future of automation in education, visit [Canon Solutions America](https://www.canon.com/csa).

<sup>1</sup> The New York Times, "Colleges Slash Budgets in the Pandemic With 'Nothing Off-Limits'" Oct. 26, 2020.  
<sup>2</sup> Center on Budget and Policy Priorities, "States Can Choose Better Path for Higher Education Funding in COVID-19 Recession" Feb. 17, 2021.  
<sup>3</sup> National Conference of State Legislatures, "Higher Education Responses to Coronavirus (COVID-19)," March 22, 2021.  
<sup>4</sup> Holon IQ, "\$4.5B Global EdTech Venture Capital for IH 2020" 2020.  
<sup>5</sup> Technavio, "Research Report, 3D Printing Market in Educations Sector (2020-2024)," Sept. 9, 2020.  
<sup>6</sup> Absolute Markets Insights, "Cloud Computing in Higher Education Market Is Expected to Grow at CAGR 25.4% by 2027," 2020.  
<sup>7</sup> EdTech Magazine, "The IT Investment Priorities Shaping Today's School Districts," July 1, 2020.