Context Matters
The digital revolution has accelerated that trend, with the market for educational tech in the U.S. and Europe exceeding $100 billion. What’s less clear is whether these investments are doing any good......

....until these tools offer clearer and more widespread benefits for students, they should be evaluated with serious skepticism. In education, minds — and money — are terrible things to waste. “

Editorial Board

Classroom Technology Doesn’t Make the Grade

Schools are spending billions on digital tools. Students have little to show for it.

By Editorial Board
September 25, 2019, 4:00 AM PDT
The future of learning
How My Teaching and Technology Almost Failed One of My Students

By Farhat Ahmad (Columnist) May 4, 2018
Who is the learner?
K-12 Public School Students

Source: NCES
“Could someone help me with these? I’m late for math class.”

Scott Spencer
Greta Thunberg had one question at the U.N. climate summit: ‘How dare you?’

--The Washington Post
The Science of Learning and Development

The research is clear: Strong relationships with educators help students develop the cognitive skills they need to learn and thrive.

January 14, 2019
Who is the learner?

One Teacher’s Plan to Close Culture Gaps in Schools

www.RoleCallProject.com
How does the learner shape your work?
“Hey, Google: Show me a picture of a teacher”
“Hey, Google: Show me a picture of a teacher”

The average US teacher is:

- White
- Female
- 42 years old
- Has 14 years of experience
- Makes $55,100 in base salary
- Works 53 hours a week

Source: National Center for Education Statistics, 2015-2016 survey
US K-12 School Districts Meeting FCC Bandwidth Goal

Source: EducationSuperHighway

Mission (Almost) Accomplished -- EdSurge
Tablet requests have skyrocketed since 2011.

Source: DonorsChoose
Flexible Seating for Small Group Instruction

Percent of projects that include flexible seating:

2010: 2%
2016: 14%

Source: DonorsChoose
Not Just Classroom Supplies: Teachers Also Buy Edtech With Their Own Money

by Tony Wan    Sep 11, 2019
Students Get Food, Clothing and More From ‘Care Closet’ Built by Their Teacher

Smells Good

“Help me give my students the supplies they need to improve their hygienic needs.”

Mr. Estright
Camp Curtin School • Harrisburg, PA

4 DONORS SO FAR

$492 STILL NEEDED

$246 FOR NOW
Figure 22

*In your [school/district], some teachers may use digital learning tools in their class(es) more often than other teachers use them. How significant are each of the following reasons that some teachers in your school may choose not to use digital learning tools.* (% Extremely Significant + % Significant)

<table>
<thead>
<tr>
<th>Reason</th>
<th>Teachers</th>
<th>Principals</th>
<th>Administrators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teachers do not have enough training on the effective use of digital learning tools.</td>
<td>56%</td>
<td>49%</td>
<td>54%</td>
</tr>
</tbody>
</table>

Source: NewSchools Venture Fund & Gallup; 2019
Licensed—but not well-used

A median of 30% of licenses are used

And, a median of 97.6% of licenses are never used intensively

Proportion of Licenses Used Intensively

- Apps with over 60% Intensive Usage: 6%
- Apps with 30-60% Intensive Usage: 16%
- Apps with 10-30% Intensive Usage: 27%
- Apps with less than 10% Intensive Usage: 52%

Source: BrightBytes, Ryan Baker
How most of us work with technology

How a teacher works with technology

Source: Clever
<table>
<thead>
<tr>
<th>Designer</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sitting in front of a screen and monitor</td>
<td>Teacher is moving around the room</td>
</tr>
<tr>
<td>Only I can see my screen</td>
<td>In front of an audience</td>
</tr>
<tr>
<td>Quiet, headphones on</td>
<td>Using technology while presenting</td>
</tr>
</tbody>
</table>

Source: Clever
US Edtech Investments Peak Again With $1.45 Billion Raised in 2018 (Jan 2019)

US Edtech Funding Already Nears $1 Billion in First Half of 2019 (Aug 2019)

Source: EdSurge
Gartner Hype Cycle

2015
Peak of Inflated Expectations

Edtech in today’s classrooms

Plateau of Productivity

2010
Trough of Disillusionment

Technology Trigger

Source: Gartner
Figure 14

Please select up to THREE resources that you trust MOST from the list below to [help you] decide what digital learning tools to use in your [class(es)/school/district].

<table>
<thead>
<tr>
<th>Resource</th>
<th>Teachers</th>
<th>Principals</th>
<th>Administrators</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Other] teachers</td>
<td>81%</td>
<td>87%</td>
<td>84%</td>
</tr>
<tr>
<td>Evidence-based reports</td>
<td>18%</td>
<td>34%</td>
<td>38%</td>
</tr>
</tbody>
</table>
Debunking the ‘Gold Standard’ Myths in Edtech Efficacy

By Jennifer Carolan and Molly B. Zieselinski  May 21, 2019
Research Continuum

**FORMATIVE**
Actionable feedback
- Usability
- Feasibility

**SUMMATIVE**
Evidence of outcomes
- Pre-Post
- Quasi-experimental
- Correlational
- Randomized control

Source: NewSchools Venture Fund: Edtech Research
“For over five years a debate has been in progress about how much—or even whether—computers contribute to improved productivity... The bottom line, it has been variously asserted, is that while there are exceptions, most business investments in computers have yielded significantly lower returns than investments in bonds at market interest rates...”
How does the learner shape your work?
Thank you!

EdSurge

Betsy@edsurge.com