

INNOVATION + IMPROVING TEACHING

Inside the 2017 Horizon Report + Toolkit
...and Beyond

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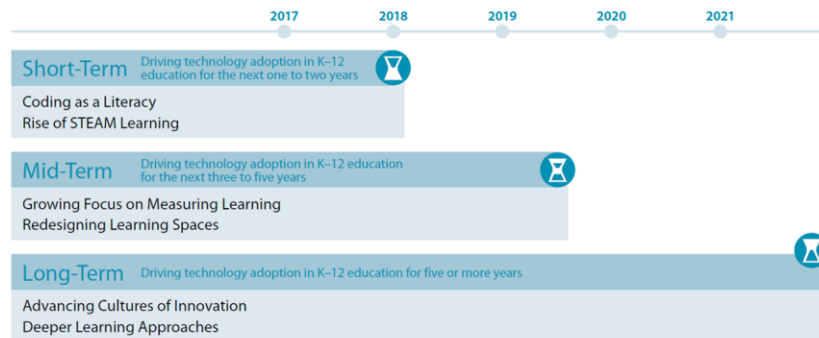
AGENDA

- Horizon Report + Toolkit Discussion
- Driving K-12 Innovation Preview
- Q&A

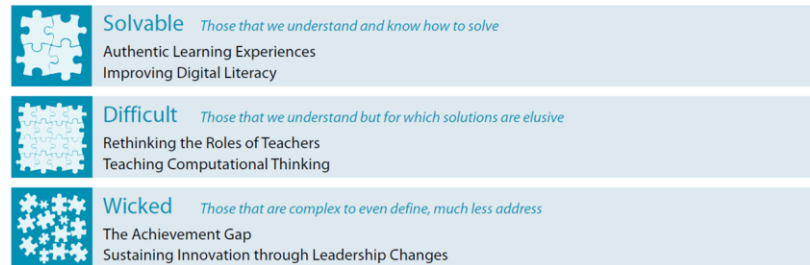


NMC/CoSN Horizon Report > 2017 K-12 Edition at a Glance

Key Trends Accelerating Technology Adoption in K-12 Education



Significant Challenges Impeding Technology Adoption in K-12 Education



Important Developments in Educational Technology for K-12 Education





mindSpark

LEARNING

Thank you mSL for making the
2017 report and toolkit possible!

Key Trends Accelerating Technology Adoption in K–12 Education

2017

2018

2019

2020

2021

Short-Term

Driving technology adoption in K–12 education for the next one to two years



Coding as a Literacy
Rise of STEAM Learning

Mid-Term

Driving technology adoption in K–12 education for the next three to five years



Growing Focus on Measuring Learning
Redesigning Learning Spaces

Long-Term

Driving technology adoption in K–12 education for five or more years



Advancing Cultures of Innovation
Deeper Learning Approaches



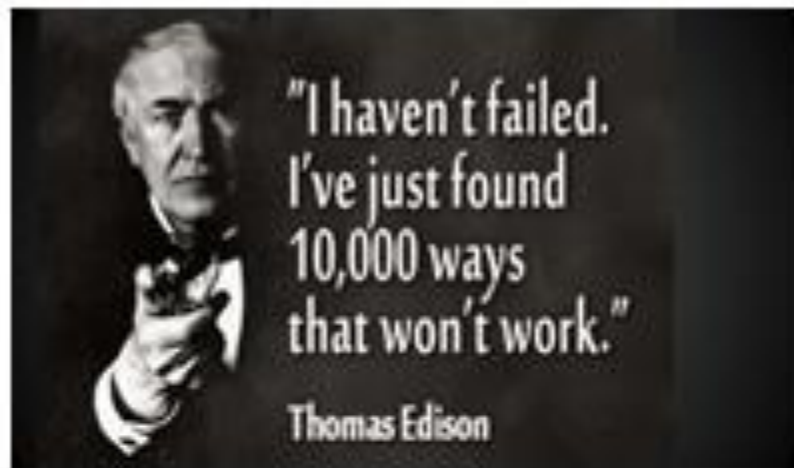
ADVANCING CULTURES OF INNOVATION

Empowering Leader

Leaders create a culture where teachers and learners are empowered to use technology in innovative ways to enrich teaching and learning.

Moving from Islands of Innovation to Systems





TIP: Celebrate Failure

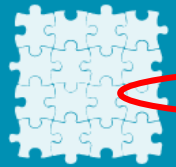


Significant Challenges Impeding Technology Adoption in K–12 Education



Solvable *Those that we understand and know how to solve*

Authentic Learning Experiences
Improving Digital Literacy



Difficult *Those that we understand but for which solutions are elusive*

Rethinking the Roles of Teachers
Teaching Computational Thinking



Wicked *Those that are complex to even define, much less address*

The Achievement Gap
Sustaining Innovation through Leadership Changes

AUTHENTIC LEARNING + RETHINKING THE ROLES OF TEACHERS



Learner

Educators continually improve their practice by learning from and with others and exploring proven and promising practices that leverage technology to improve student learning.

Citizen

Educators inspire students to positively contribute to and responsibly participate in the digital world.

Designer

Educators design authentic, learner-driven activities and environments that recognize and accommodate learner variability.





EXIT









Tiny House

Built by Irvington High School students and
funded by the IEF's Innovation Fund—with
donations from people like you.

IEF





Latest Weather

Blizzard

Climate

Cold

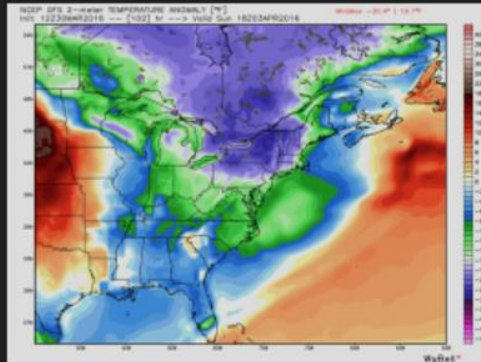
Fair Weather

Flooding

Heat

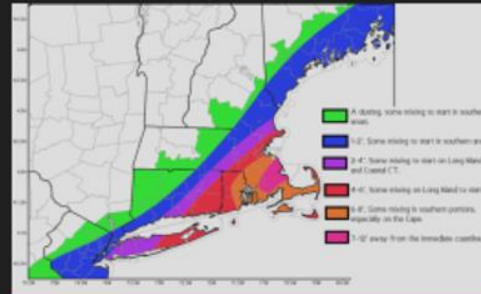
Hurricane

Ice



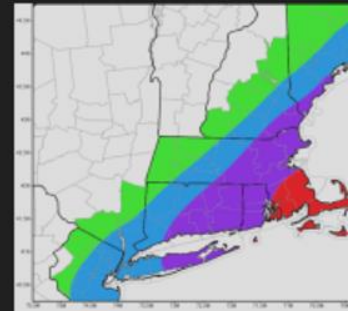
**Warm, then Cold,
then...?**

March 30, 2016



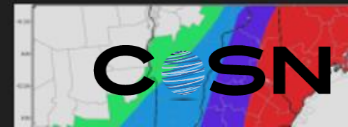
**Final Call on the
Upcoming Snow
Storm**

March 20, 2016



**VERY Tricky Storm
Update**

Mar





WITH
GREAT POWER COMES
GREAT RESPONSIBILITY





QUESTIONS?

@jlubinsky



Important Developments in Educational Technology for K-12 Education



A woman with long blonde hair is wearing a VR headset and interacting with a large, glowing, semi-transparent globe. The globe is surrounded by a complex network of white lines and dots, resembling a data visualization or a virtual environment. The background is dark and blurry, suggesting an indoor setting. The overall tone is futuristic and technological.

VIRTUAL REALITY

Empowered Learner

Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.

Digital Citizen

Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical.

VIRTUAL FIELD TRIPS @ DUBAI BRITISH SCHOOL JUMEIRAH PARK



A young woman with long blonde hair is wearing a VR headset and holding a VR controller, standing in a school lab. In the foreground, another young woman with long blonde hair is looking towards the camera. In the background, another student is also using a VR headset. The room has a whiteboard with diagrams and posters on the wall.

**VIRTUAL REALITY LAB @
BARBERTON HIGH
SCHOOL**

COLLABORATIVE LEARNING ENVIRONMENTS in VIRTUAL REALITY (CLEVR) @ MIT



ARTIFICIAL INTELLIGENCE



Analyst


Educators understand and use data to drive their instruction and support students in achieving their learning goals.

A photograph of a classroom where several young students are seated at desks, focused on their computer monitors. The students are in profile, looking towards the right. The foreground shows a boy in a light blue polo shirt typing on a keyboard. Behind him, a girl in a pink shirt and another boy in a blue patterned shirt are also working. In the background, a teacher or adult is visible, slightly out of focus. The overall atmosphere is one of a modern, technology-integrated learning environment.

**THIRD SPACE LEARNING @
PAKEMAN PRIMARY
SCHOOL**



**VOCABULARY LEARNING APP
@ GWINNETT COUNTY
PUBLIC SCHOOLS**



2017 K-12 Edition

HORIZON REPORT

DIGITAL TOOLKIT

2017-nmc-cosn-horizon-report-k12resources.org

COSN
LEADING EDUCATION INNOVATION



mindSpark
LEARNING

COSN

QUESTIONS?

@keithkrueger @sambeckertweets @jlubinsky



Visionary Planner

Leaders engage others in establishing a vision, strategic plan and ongoing evaluation cycle for transforming learning with technology. Education leaders:

DRIVING K-12 INNOVATION

New CoSN series informs smart technology strategies for schools, with teaching + learning at the center



cosn.org/k12innovation

Equity and Citizenship Advocate

Leaders use technology to increase equity, inclusion, and digital citizenship practices.

Visionary Planner

Leaders engage others in establishing a vision, strategic plan and ongoing evaluation cycle for transforming learning with technology.

Empowering Leader

Leaders create a culture where teachers and learners are empowered to use technology in innovative ways to enrich teaching and learning.

Systems Designer

Leaders build teams and systems to implement, sustain and continually improve the use of technology to support learning.

Connected Learner

Leaders model and promote continuous professional learning for themselves and others.

HURDLES

Roadblocks that force schools to slow down, prepare themselves + make the leap.



1



2



3



4



5

ACCELERATORS



Real-world
megatrends that drive
the needs + skills
expected of learners +
practitioners

TECH ENABLERS

The tools that grease the wheels for schools to surmount Hurdles and take advantage of Accelerators in the near to distant future



2019 SERIES RELEASE DATES

- January: Hurdles
- April (CoSN Conference): Accelerators
- June (ISTE Conference): Tech Enablers + Toolkit



CoSN's *Driving K-12 Innovation* is made possible by:



GLOBAL ADVISORY BOARD

I'M DRIVING K-12 INNOVATION W/ 

CoSN named me to serve on a global Advisory Board to explore + select the 2019 Hurdles, Accelerators + Tech Enablers impacting K-12: cosn.org/k12innovation



Latest Discussion Posts Add



RE: HURDLE: Ongoing Professional Development

By: [Francesco Pedró](#), 3 minutes ago

Definition: Teachers aren't always privy to or encouraged to pursue continued formal/informal training to upskill. Prompts: 1- How would you define this Hurdle in 3 sentences or less? Lack of incentives to develop own capacities, ...



RE: Hurdle: Parent/Community Perceptions of ed tec ...

By: [Jesse Lubinsky](#), an hour ago

I actually just talked about ~~this exact hurdle~~ in the context of the Ongoing Professional Development hurdle. As a system, we do need to get buy-in from community stakeholders on the importance of technology and innovation as pillars of the work we do ...



Press Release Announced-CoSN Makes Headway in "Driving ...

By: [Sofia Losada](#), an hour ago

Happy Friday! We're so pleased to announce that CoSN has issued the official press release for the Driving K-12 Innovation Series through the Fratelli Group! The press release can be found here: [CoSN Makes Headway in "Driving K-12 Innovation" Series](#) ...



RE: HURDLE: Ongoing Professional Development

By: [Jesse Lubinsky](#), an hour ago

2019 CoSN Annual

www.cosnconference.org

CALL FOR PRESENTATIONS NOW OPEN
DEADLINE JULY 2

April 1-4, 2019
Portland, Oregon



QUESTIONS?

@keithkrueger @sambeckertweets @jlubinsky

