

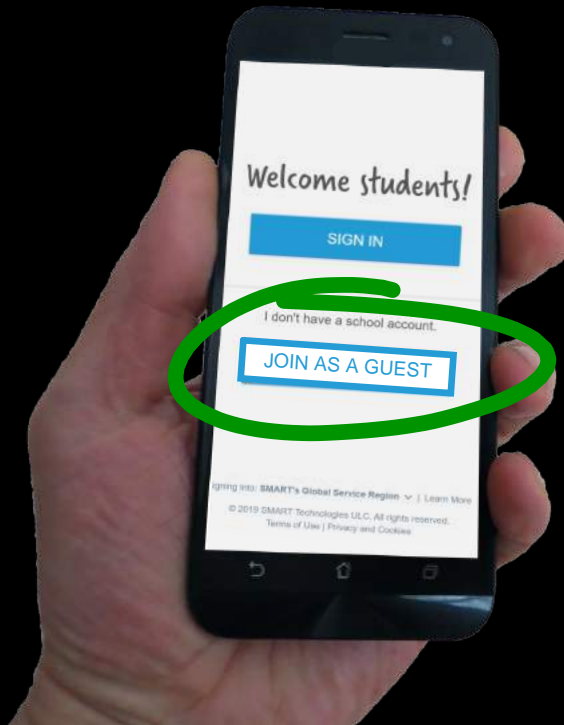
# Key Considerations When Developing Online Learning Frameworks

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 @4Gbrotto

  Giancarlo Brotto

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link





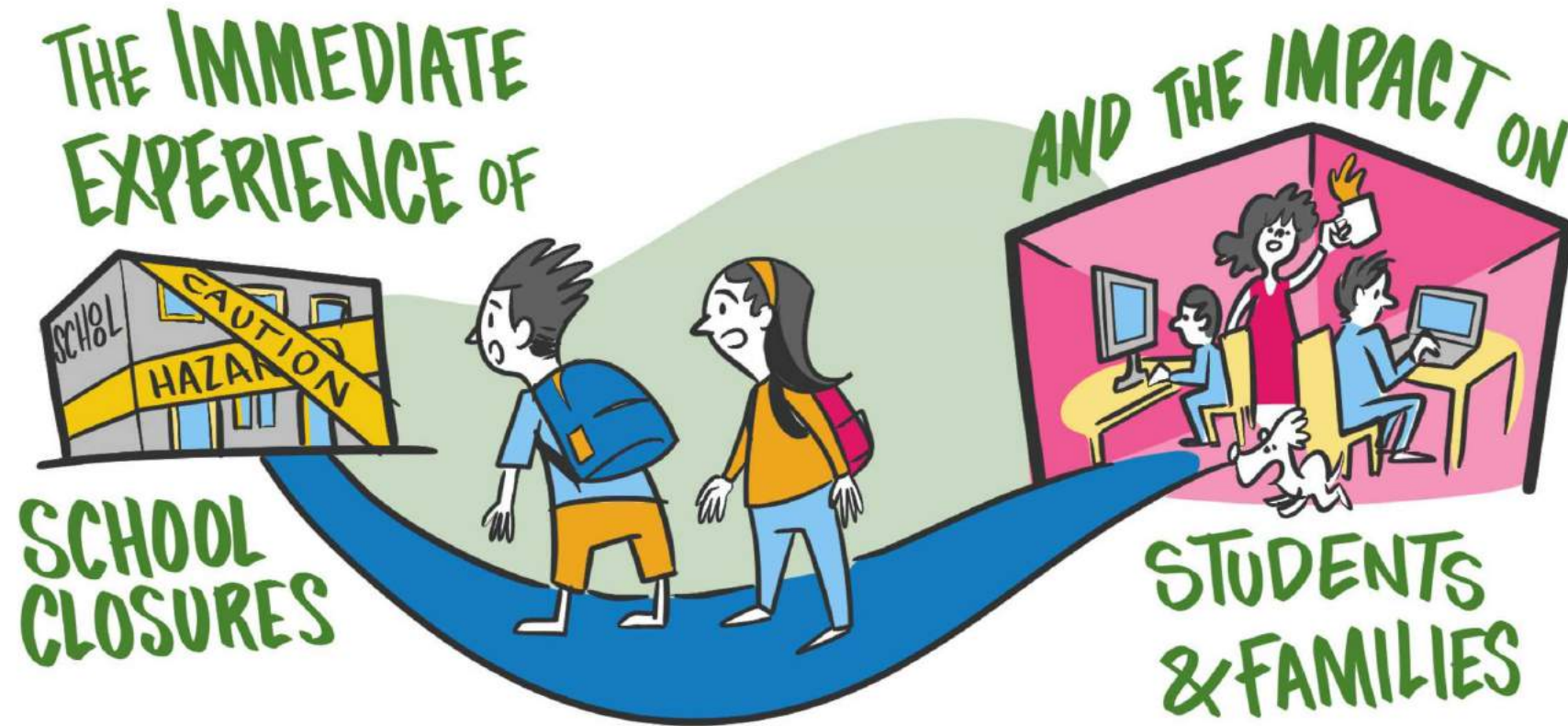
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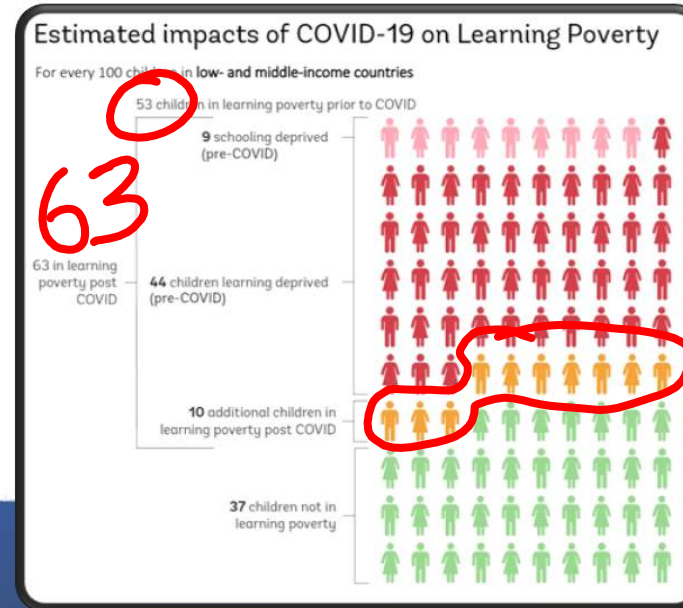
  Giancarlo Brotto





# LEARNING LOSS

- Lost Earnings  
10T
- GDP  
10%

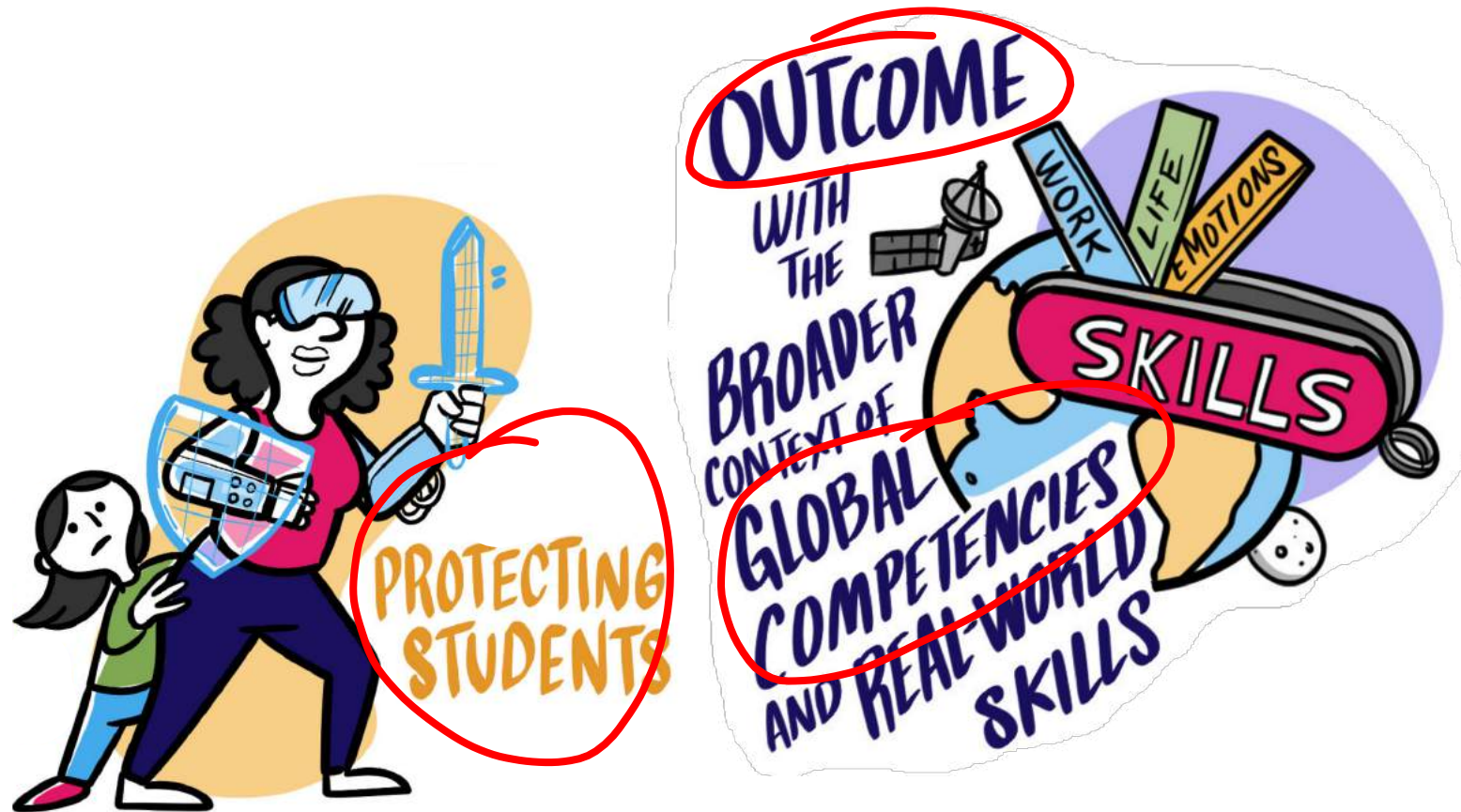


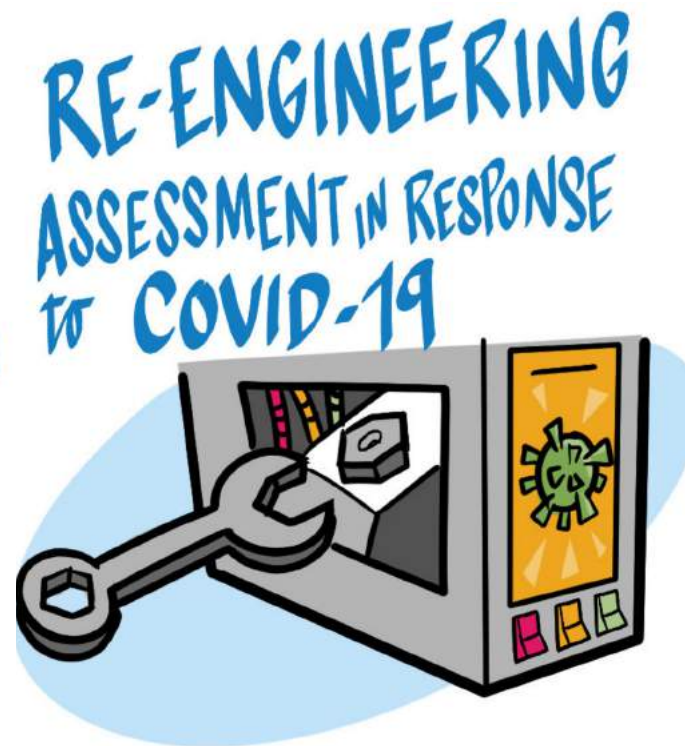
Acevedo, 2020

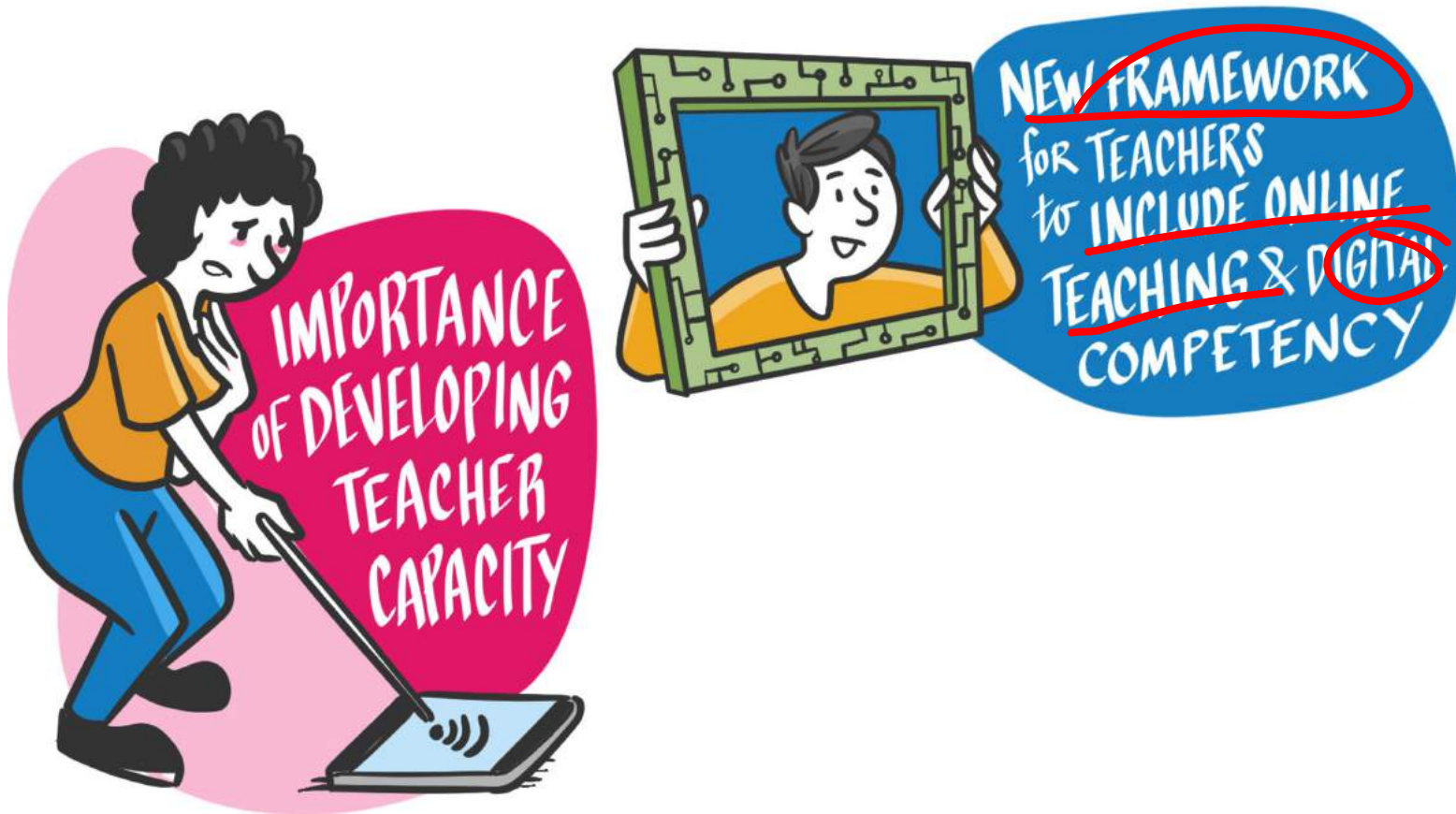
<http://documents1.worldbank.org/curated/en/329061592483383689/pdf/Simulating-the-Potential-Impacts-of-COVID-19-School-Closures-on-Schooling-and-Learning-Outcomes-A-Set-of-Global-Estimates.pdf>

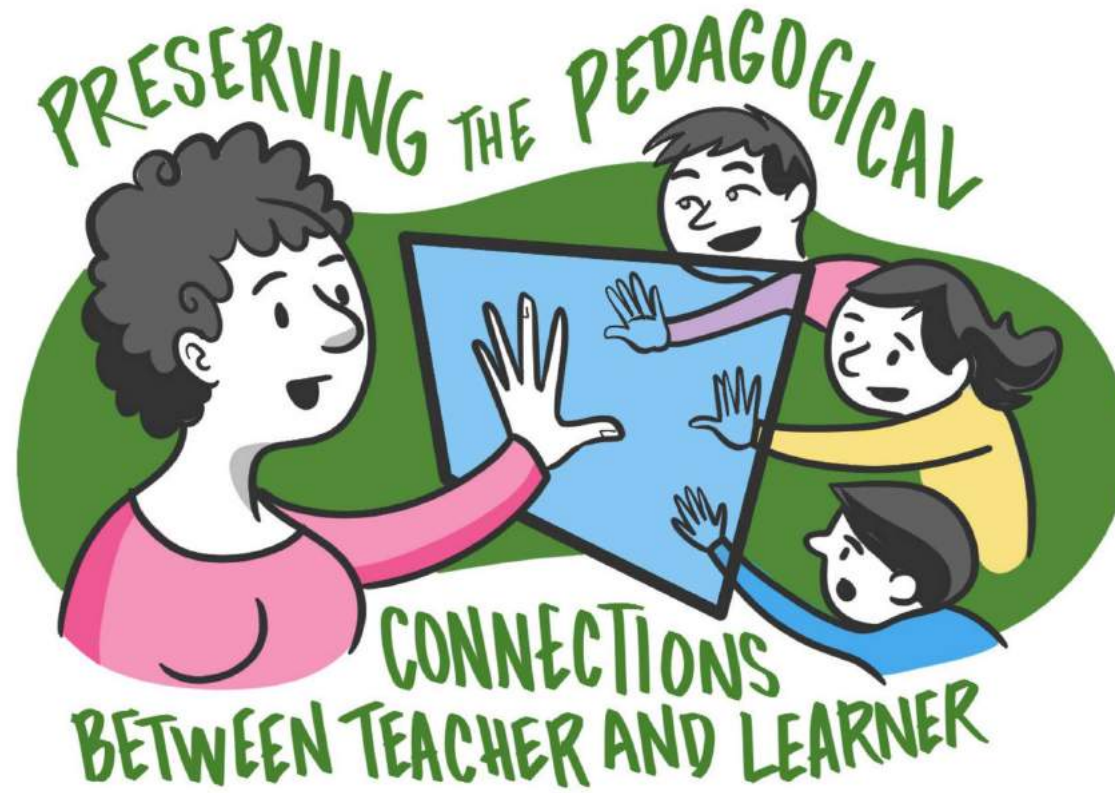












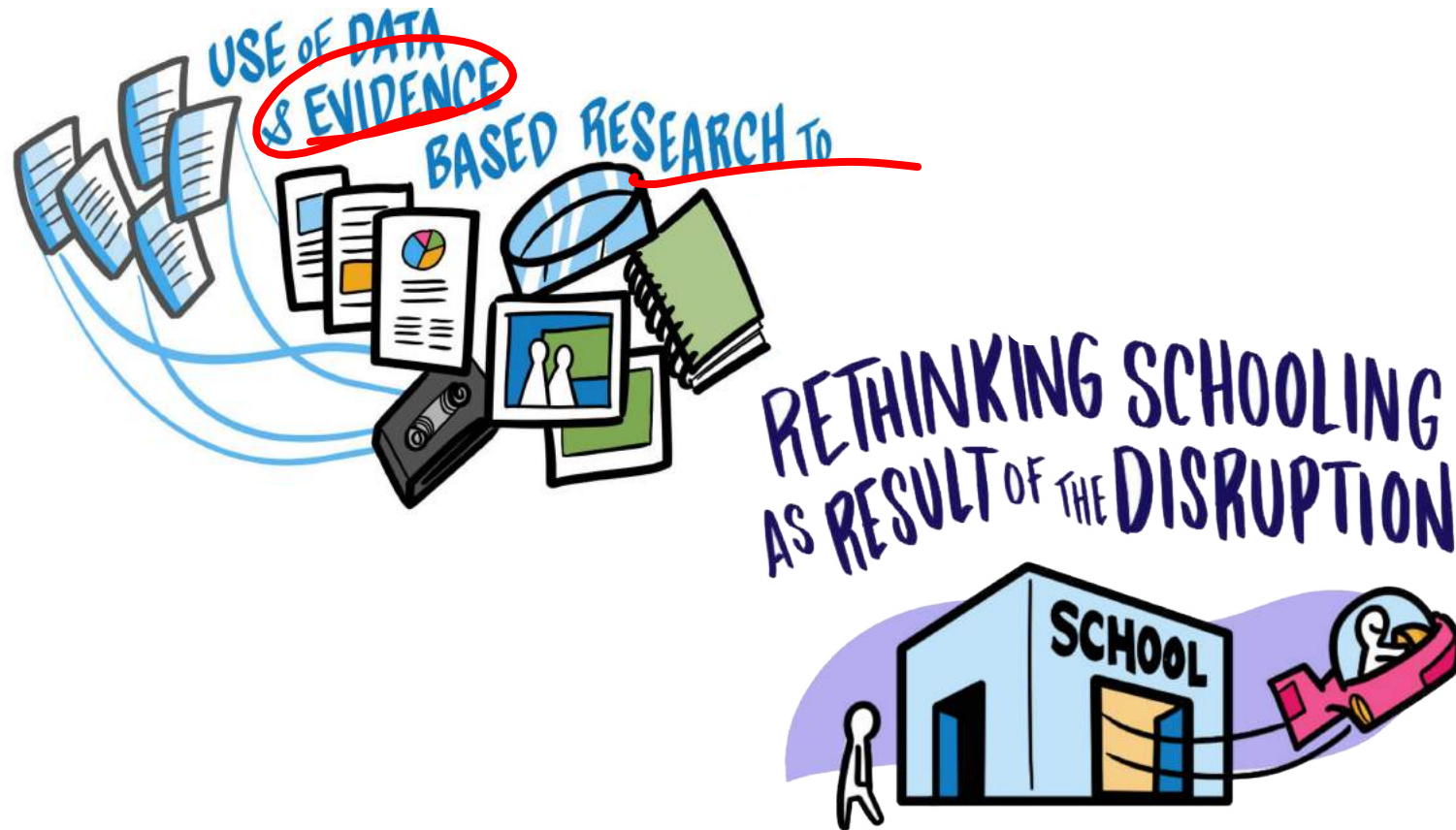


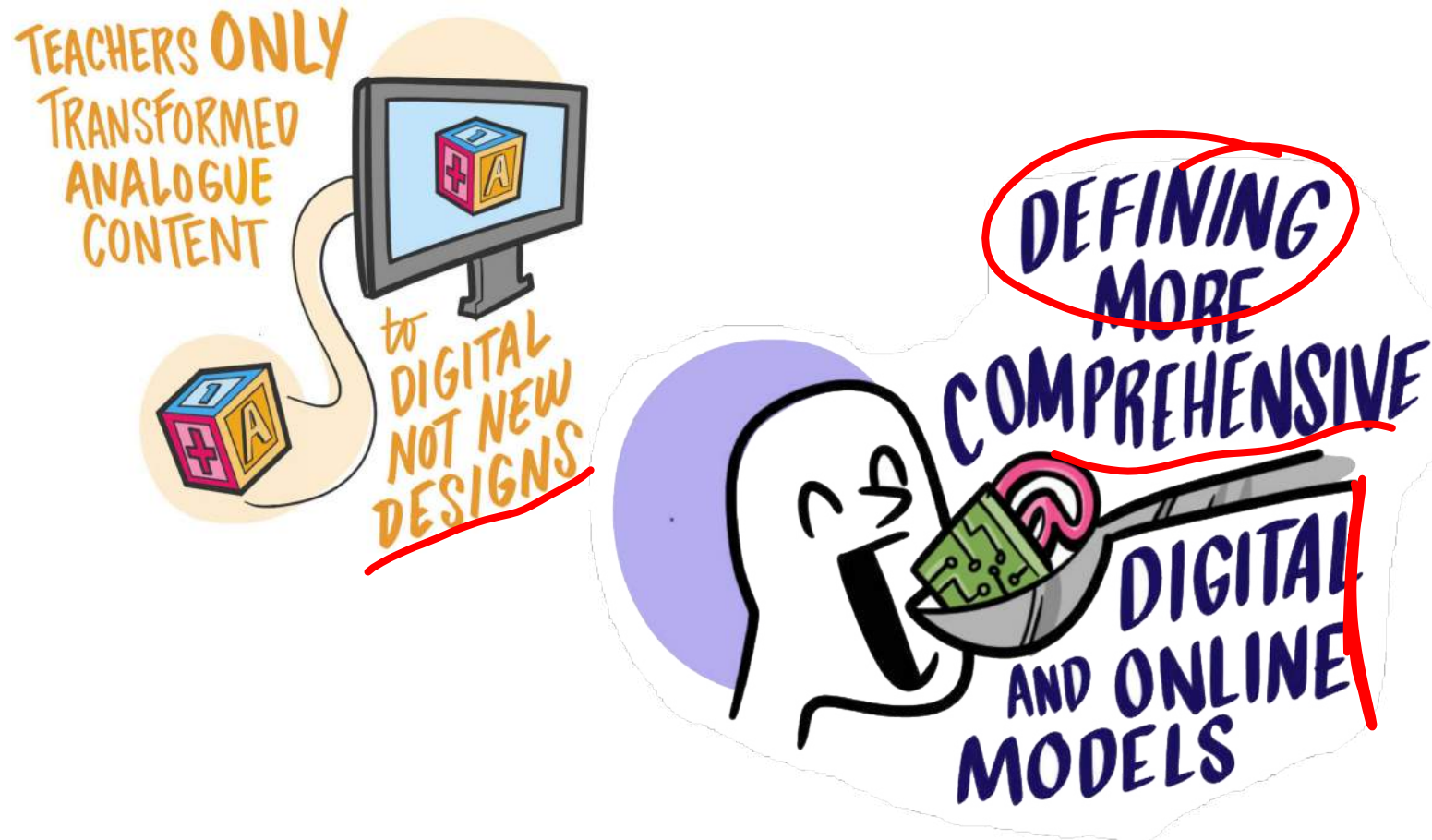
# Key Considerations

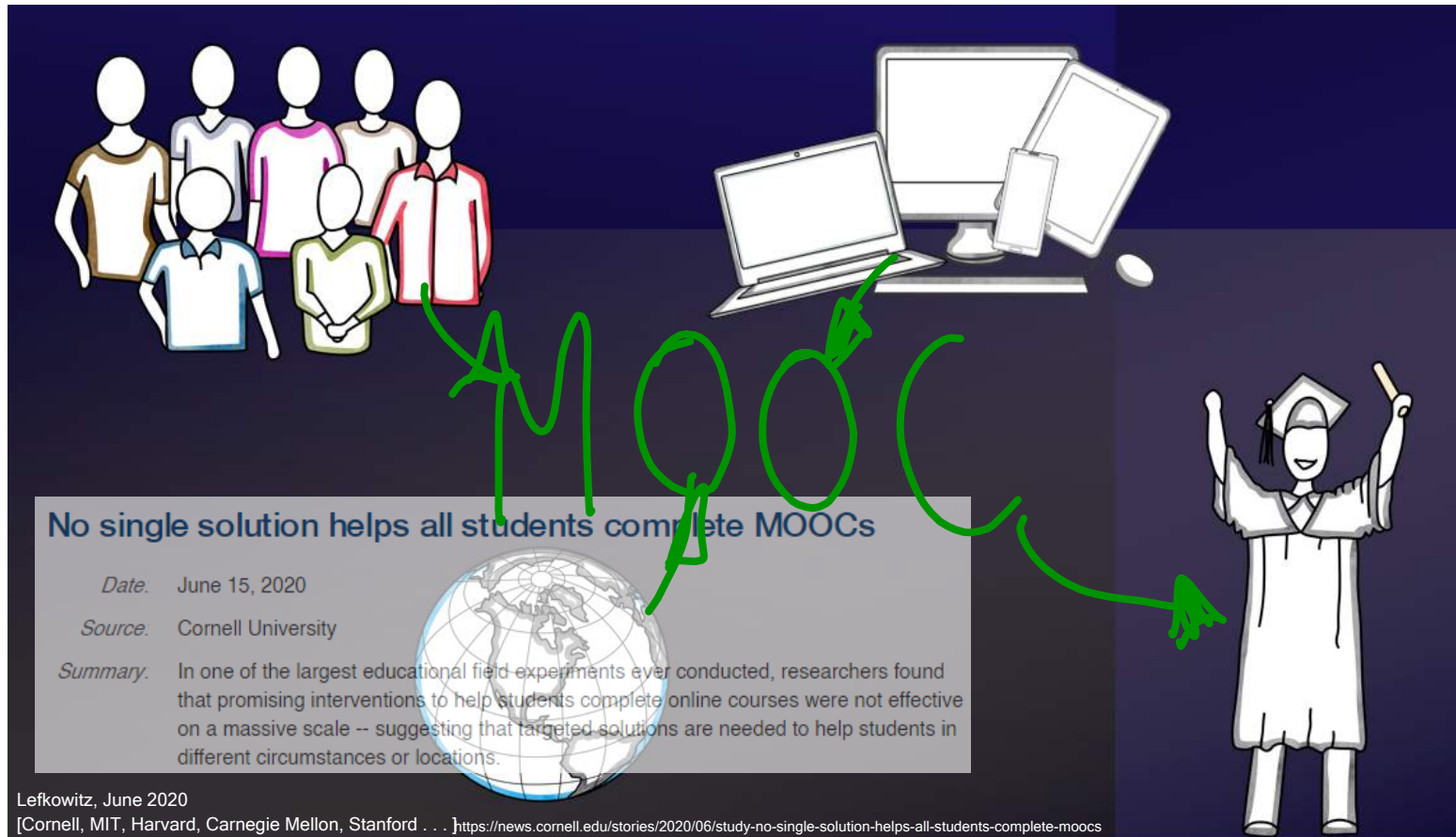












**No single solution helps all students complete MOOCs**

*Date:* June 15, 2020

*Source:* Cornell University

*Summary:* In one of the largest educational field experiments ever conducted, researchers found that promising interventions to help students complete online courses were not effective on a massive scale -- suggesting that targeted solutions are needed to help students in different circumstances or locations.

Lefkowitz, June 2020  
 [Cornell, MIT, Harvard, Carnegie Mellon, Stanford . . . ] <https://news.cornell.edu/stories/2020/06/study-no-single-solution-helps-all-students-complete-moocs>





# What is Learning ?



## THE SCIENCE OF LEARNING

A summary of evidence about how children learn

November 2020



Weinstein, Y. and Sumeracki, M. (2019) Understanding How We Learn - A Visual Guide .

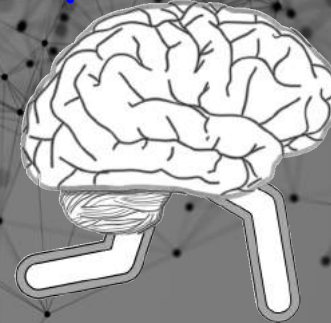
# What is Learning ?

Prior Knowledge



Attention

Active



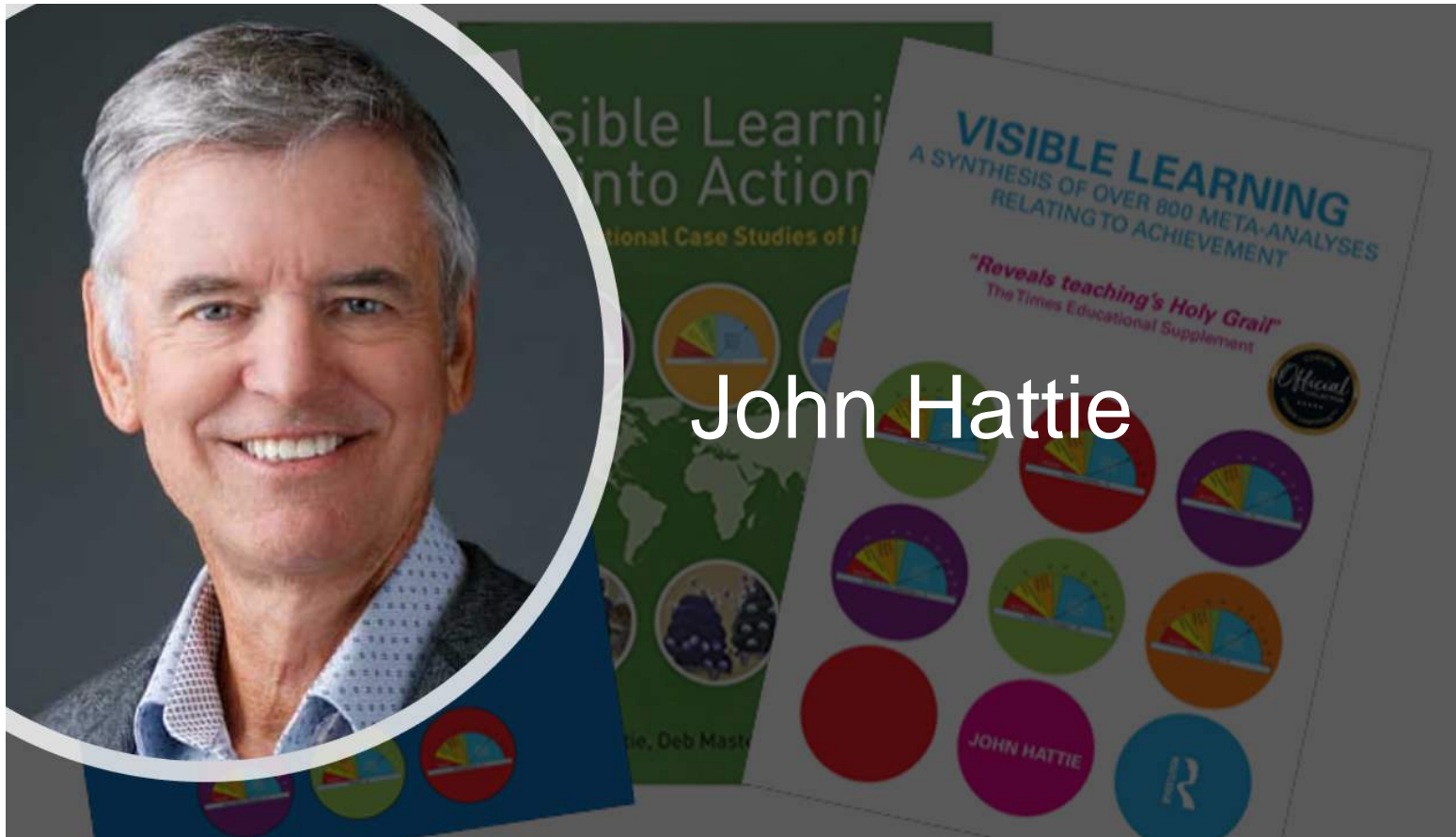
Weinstein, Y. and Sumeracki, M. (2019) Understanding How We Learn - A Visual Guide .

# What is Learning ?



Prior Knowledge

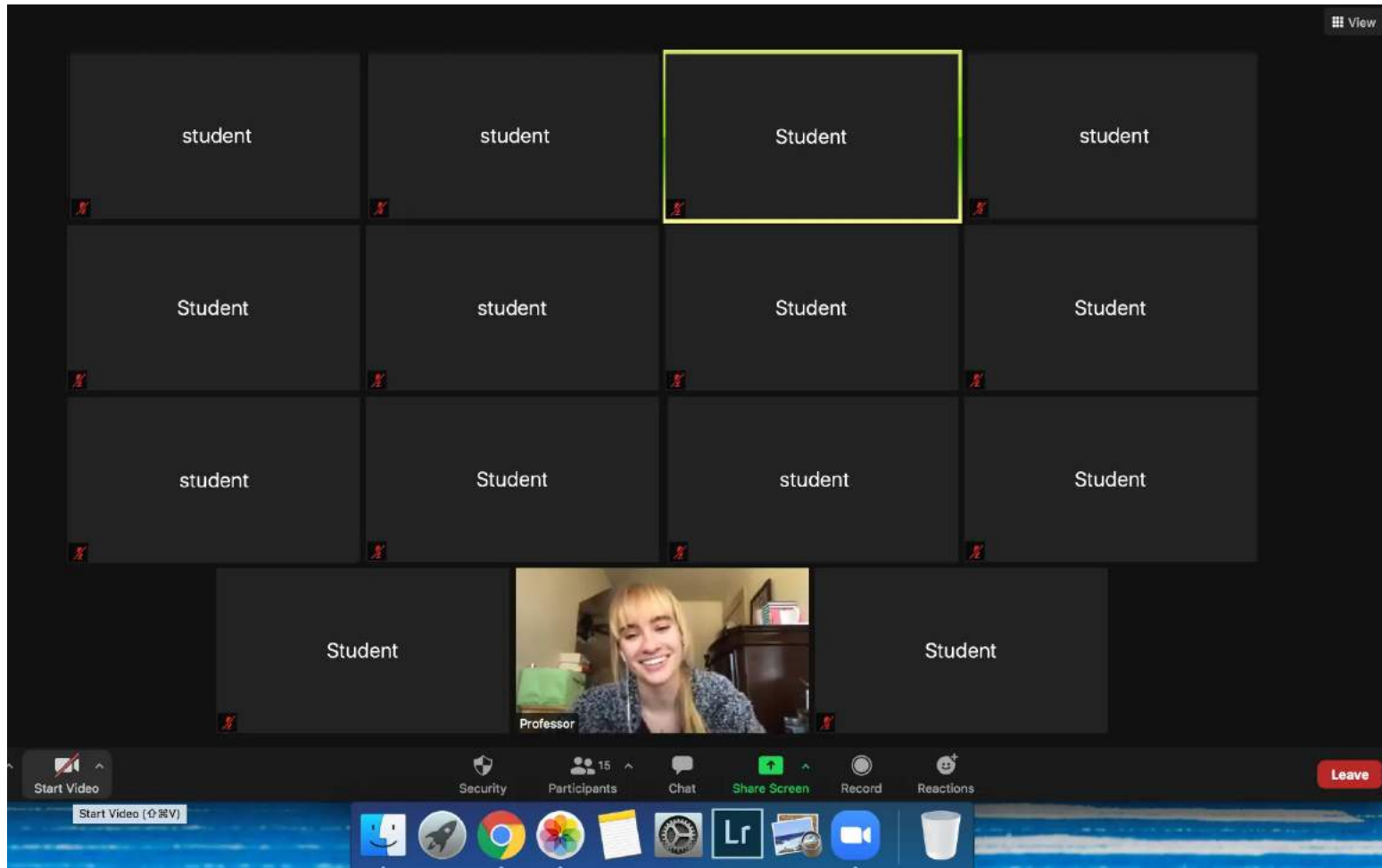
Weinstein, Y. and Sumeracki, M. (2019) Understanding How We Learn - A Visual Guide .



John Hattie







# How will your strategy account for . . .



Prior Knowledge

Weinstein, Y. and Sumeracki, M. (2019) Understanding How We Learn - A Visual Guide .

# What is Learning ?

Attention



Weinstein, Y. and Sumeracki, M. (2019) Understanding How We Learn - A Visual Guide .

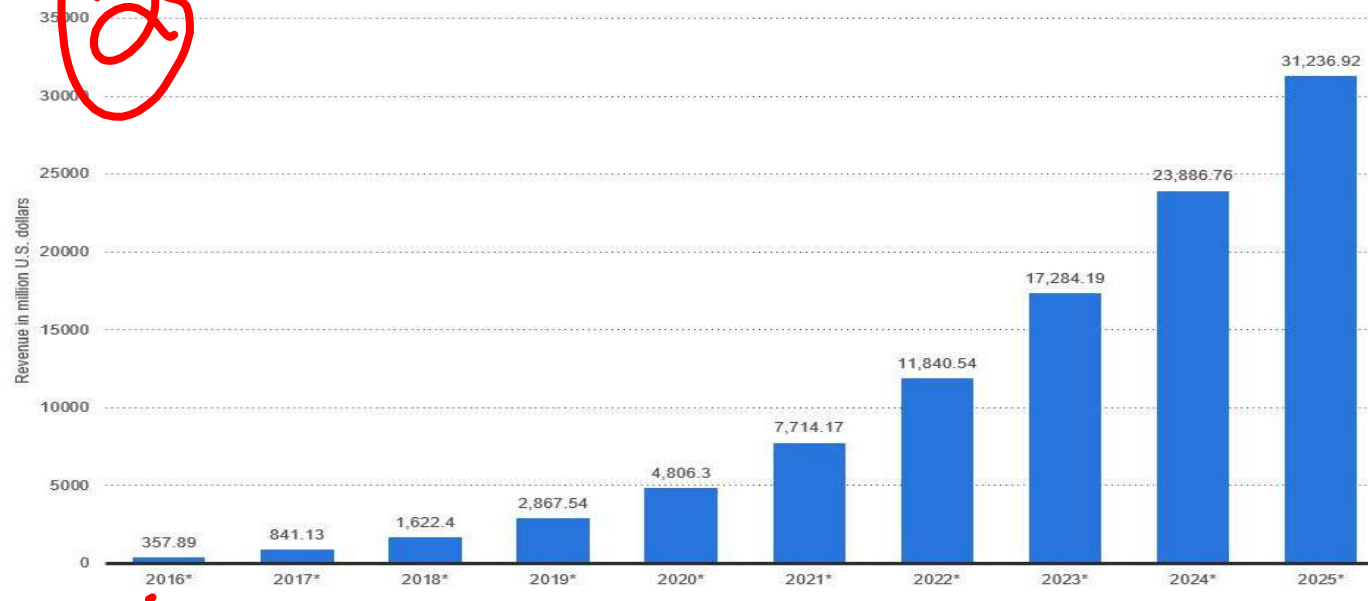
# **What Will People Remember More?**



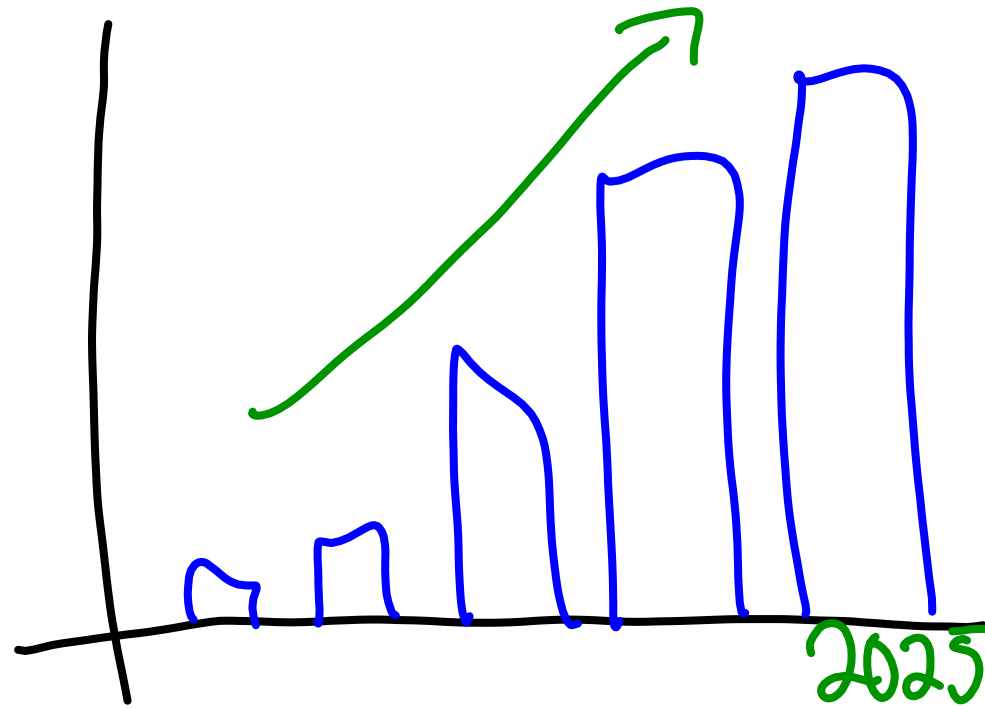


Enterprise artificial intelligence market revenue worldwide 2016-2025

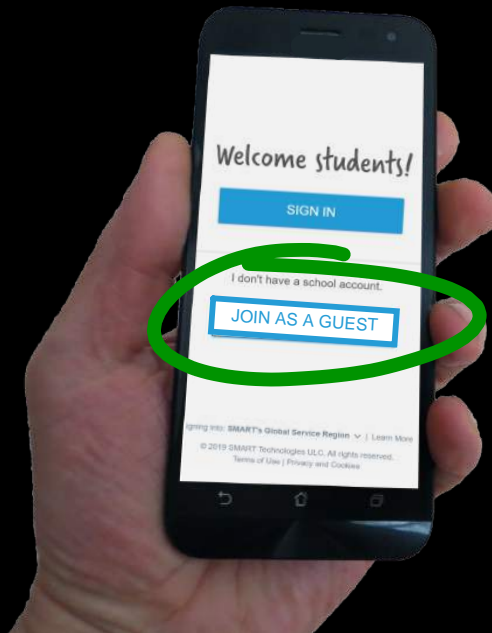
**Revenues from the artificial intelligence for enterprise applications market worldwide, from 2016 to 2025 (in million U.S. dollars)**



③



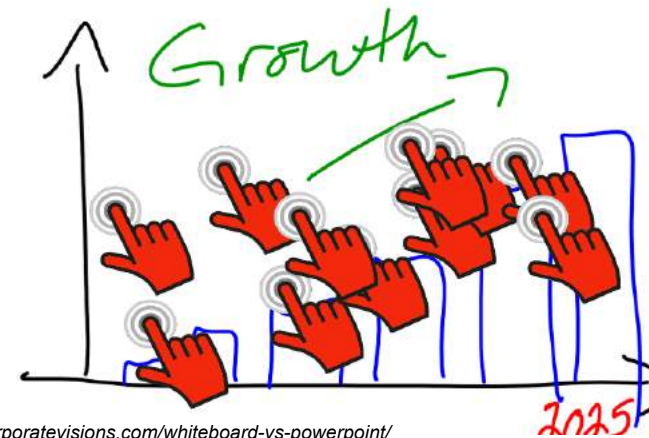
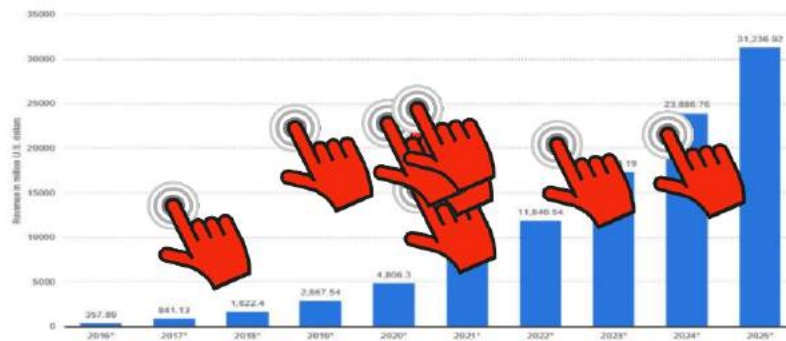
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**What will people remember more?**



Dr. Zakary Tormala, Stanford Graduate School Of Business <https://corporatevisions.com/whiteboard-vs-powerpoint/>

# How will your strategy account for . . .

Attention

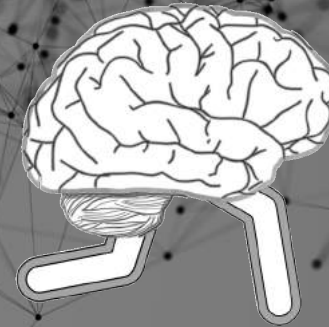


Weinstein, Y. and Sumeracki, M. (2019) Understanding How We Learn - A Visual Guide .

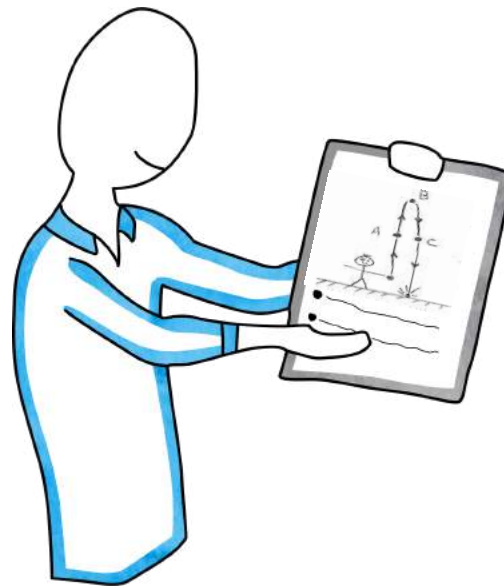


# What is Learning ?

Active

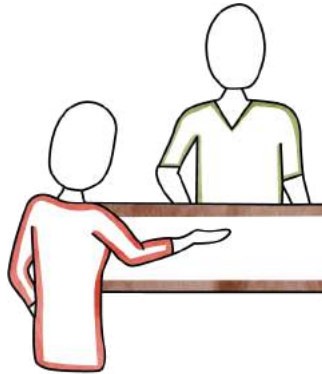


Weinstein, Y. and Sumeracki, M. (2019) Understanding How We Learn - A Visual Guide .

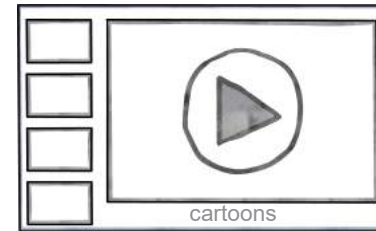




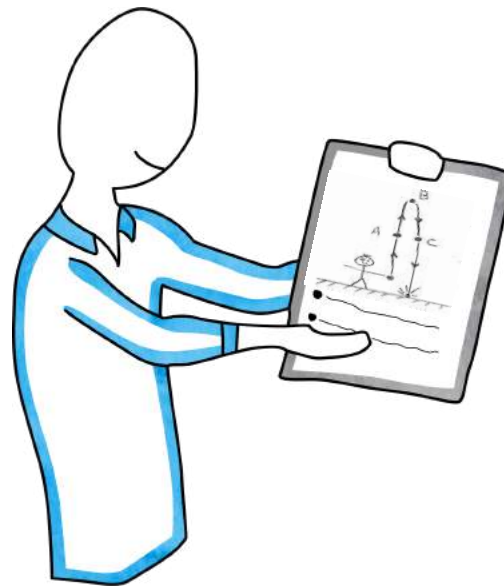
reflected  
(no discussion)

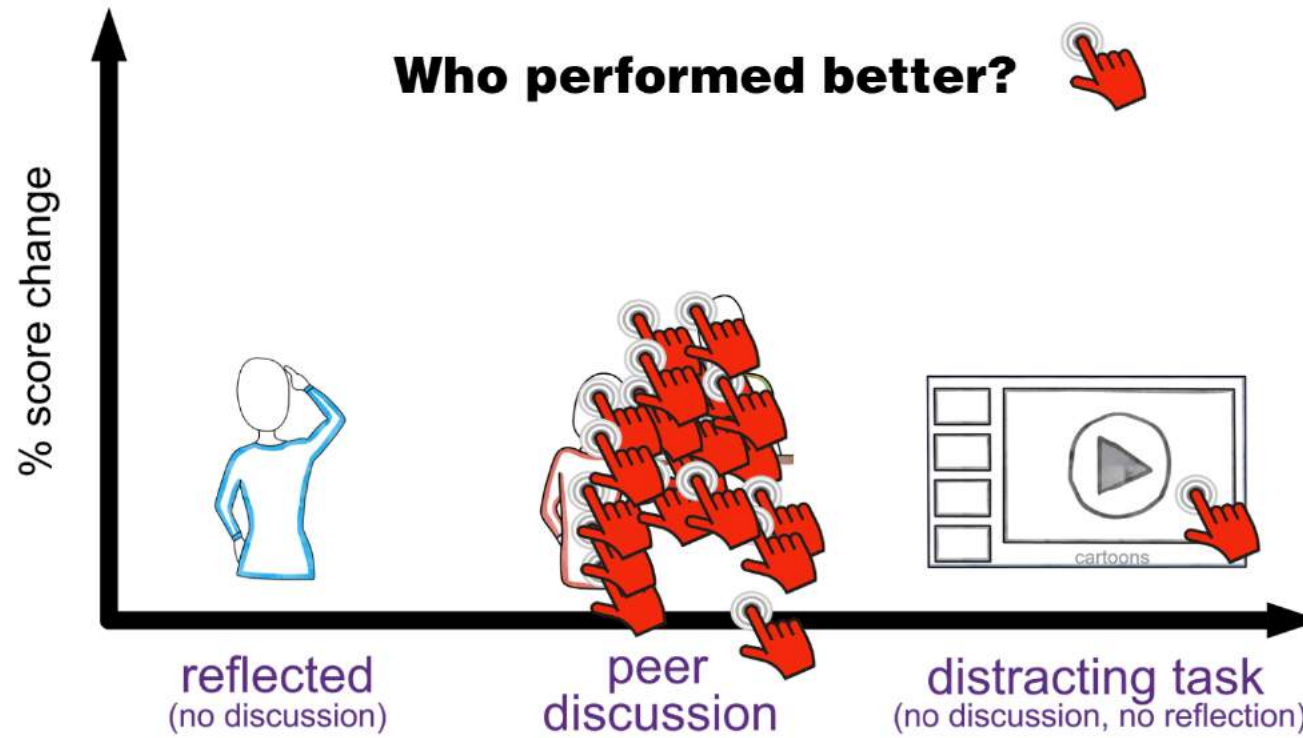


peer  
discussion

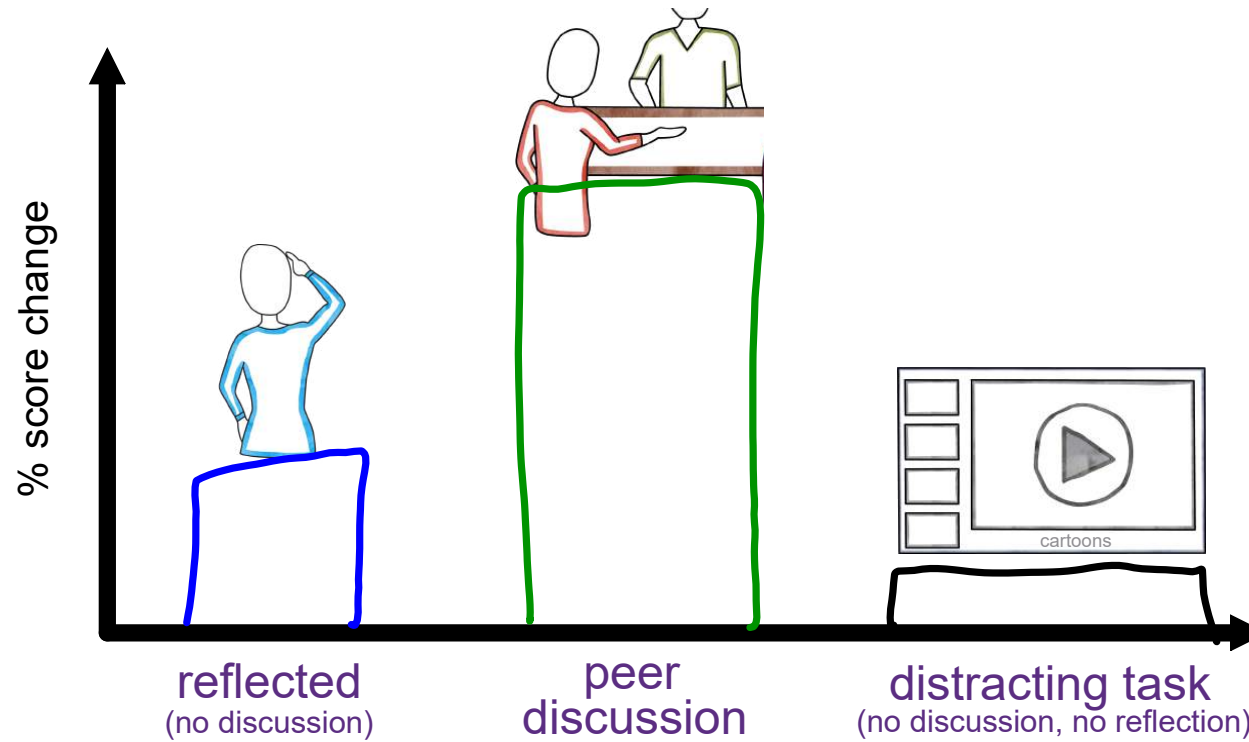


distracting task  
(no discussion  
no reflection)





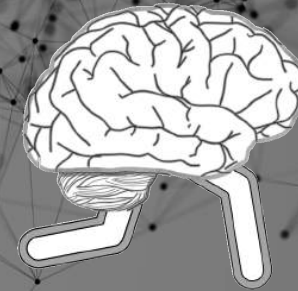




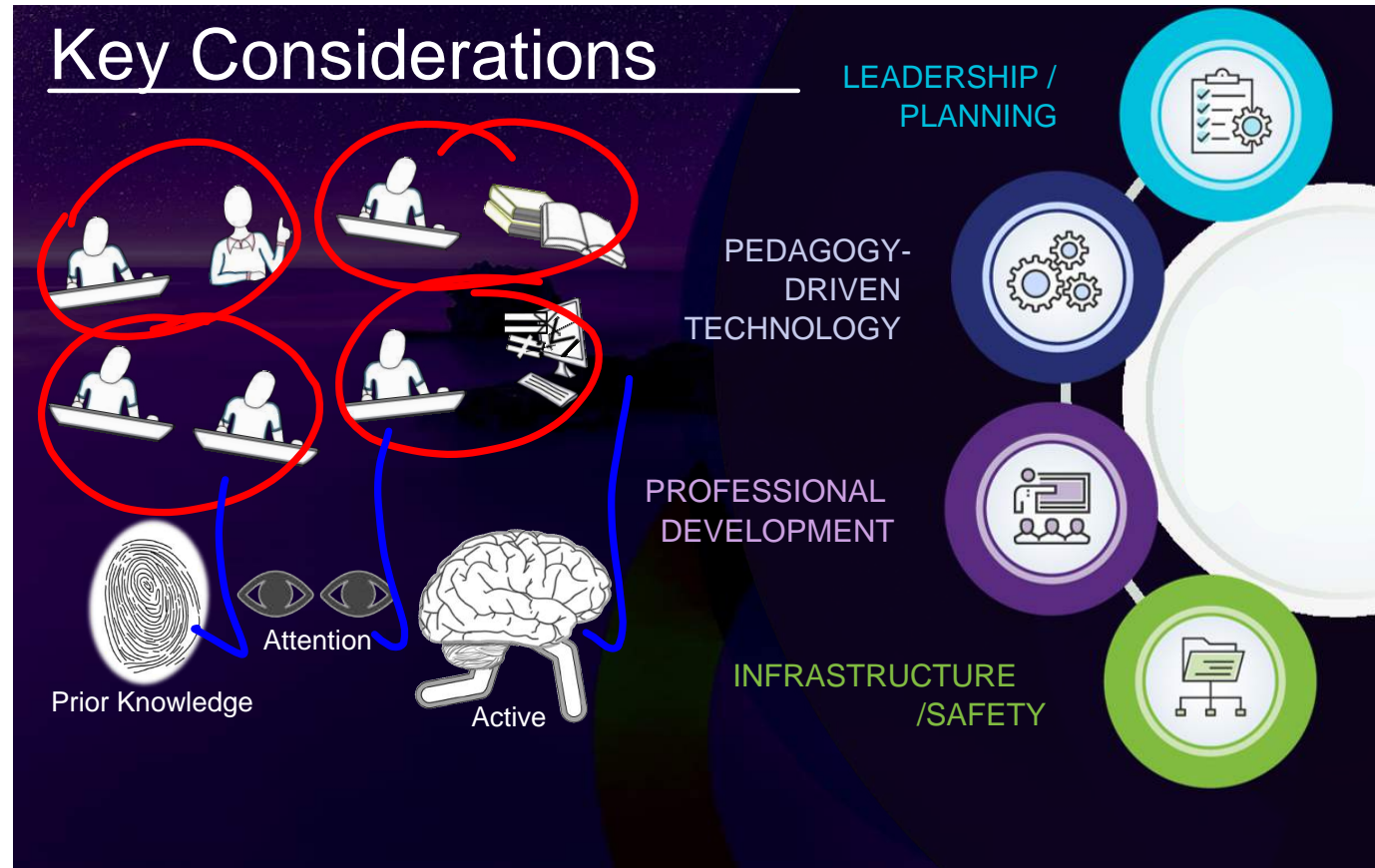
2009, Harvard, Dawson, John Abbott, Center for the Study Learning and Performance <https://www.per-central.org/items/detail.cfm?ID=948>

# How will your strategy account for . . .

Active



Weinstein, Y. and Sumeracki, M. (2019) Understanding How We Learn - A Visual Guide .



# Key Considerations When Developing Online Learning Frameworks

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