Technology is core to each of our experiences

Technology empowers us all

Conversation starters

Questions for consideration

- **What are the current learning technologies on the horizon for higher education in the next 5 years?**
- **How do you personally choose what technology you use in your teaching?**
- **How do your students choose what technology they use?**
- **What response would you give to a colleague seeking assistance in choosing and implementing learning technology tools?**
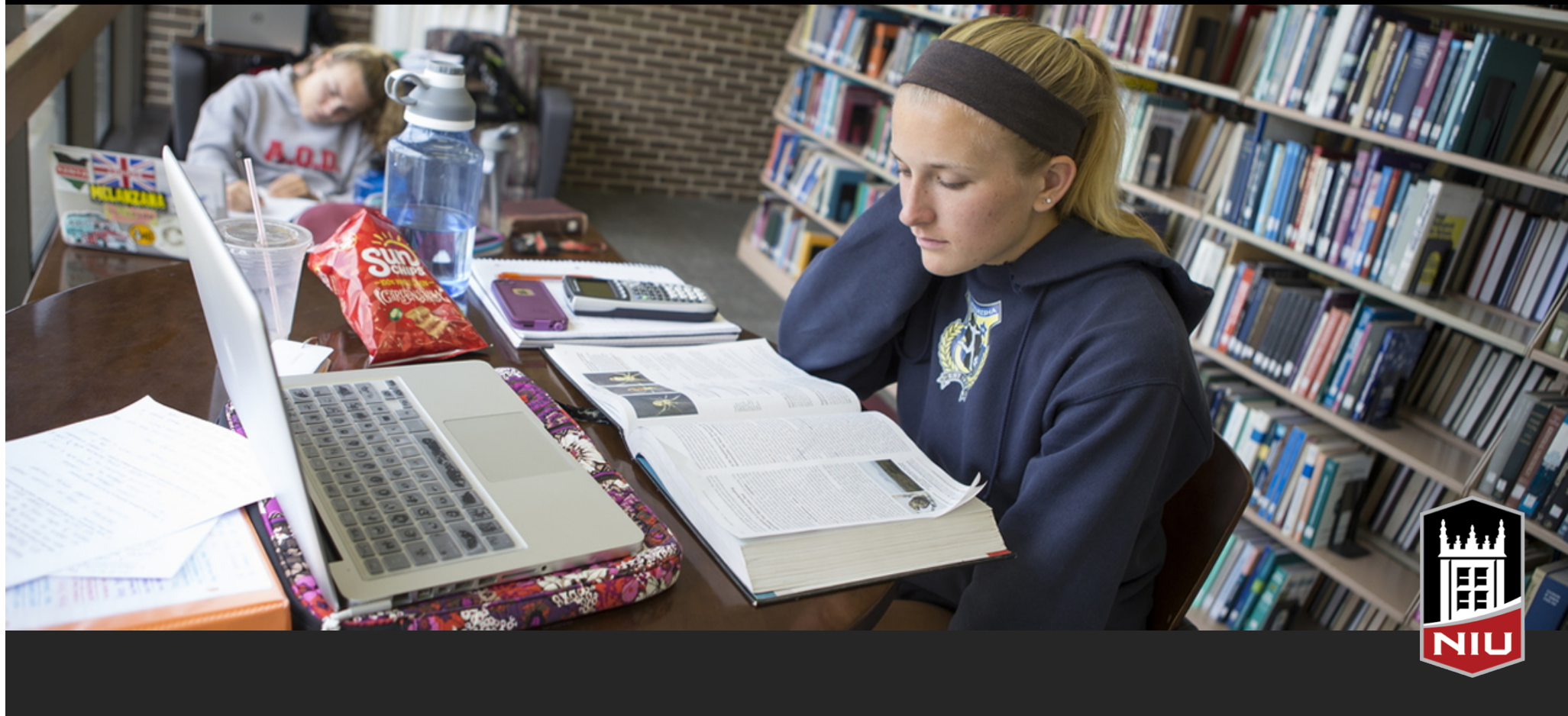
Framing the discussion

Technology permeates all aspects of culture and society

Technology is only a tool, but can profoundly impact teaching and learning experience

"If the only tool you have is a hammer, you tend to see every problem as a nail."

- Abraham Maslow

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2017 This Is What Happens In An Internet Minute

facebook — 900,000 Logins

16 Million Text Messages

You Tube — 4.1 Million Videos Viewed

Google — 3.5 Million Search Queries

342,000 Apps Downloaded

NETFLIX — 70,017 Hours Watched

46,200 Posts Uploaded — *Instagram*

$751,522 Spent Online

452,000 Tweets Sent

1.8 Million Snaps Created

990,000 Swipes — **tinder**

15,000 GIFs Sent via Messenger

156 Million Emails Sent

120 New Accounts Created — **Linked in**

50 Voice-First Devices Shipped — **amazon echo**

40,000 Hours Listened — **Spotify**

60 SECONDS

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Many available personalized technology options

Reliance on technology in higher education

Mission critical elements of institutional infrastructure

Empowering new forms of digital teaching

Exploring advanced technology tools and practices

Machine Learning

Artificial Intelligence (AI)
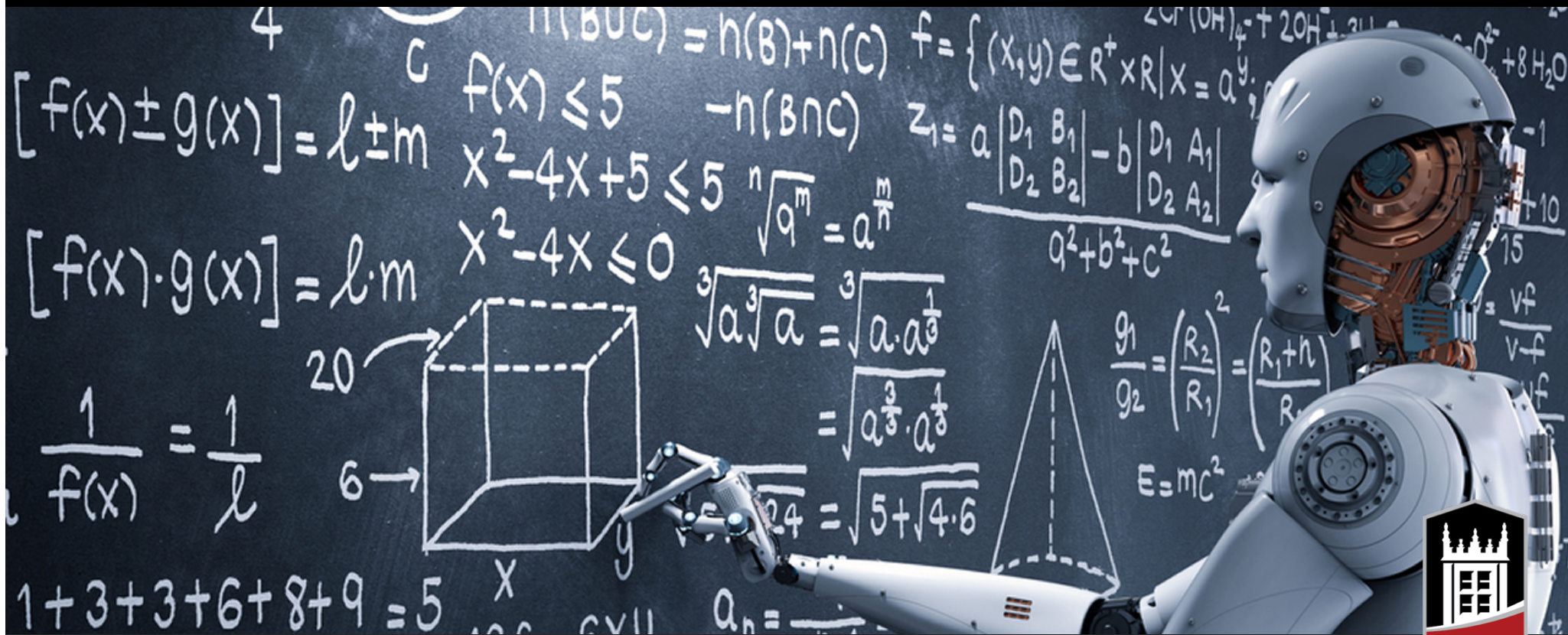
Digital Assistants

Augmented Reality (AR)

Mobile devices and AR

AR in K-12 learning

Virtual Reality (VR)

Example of VR
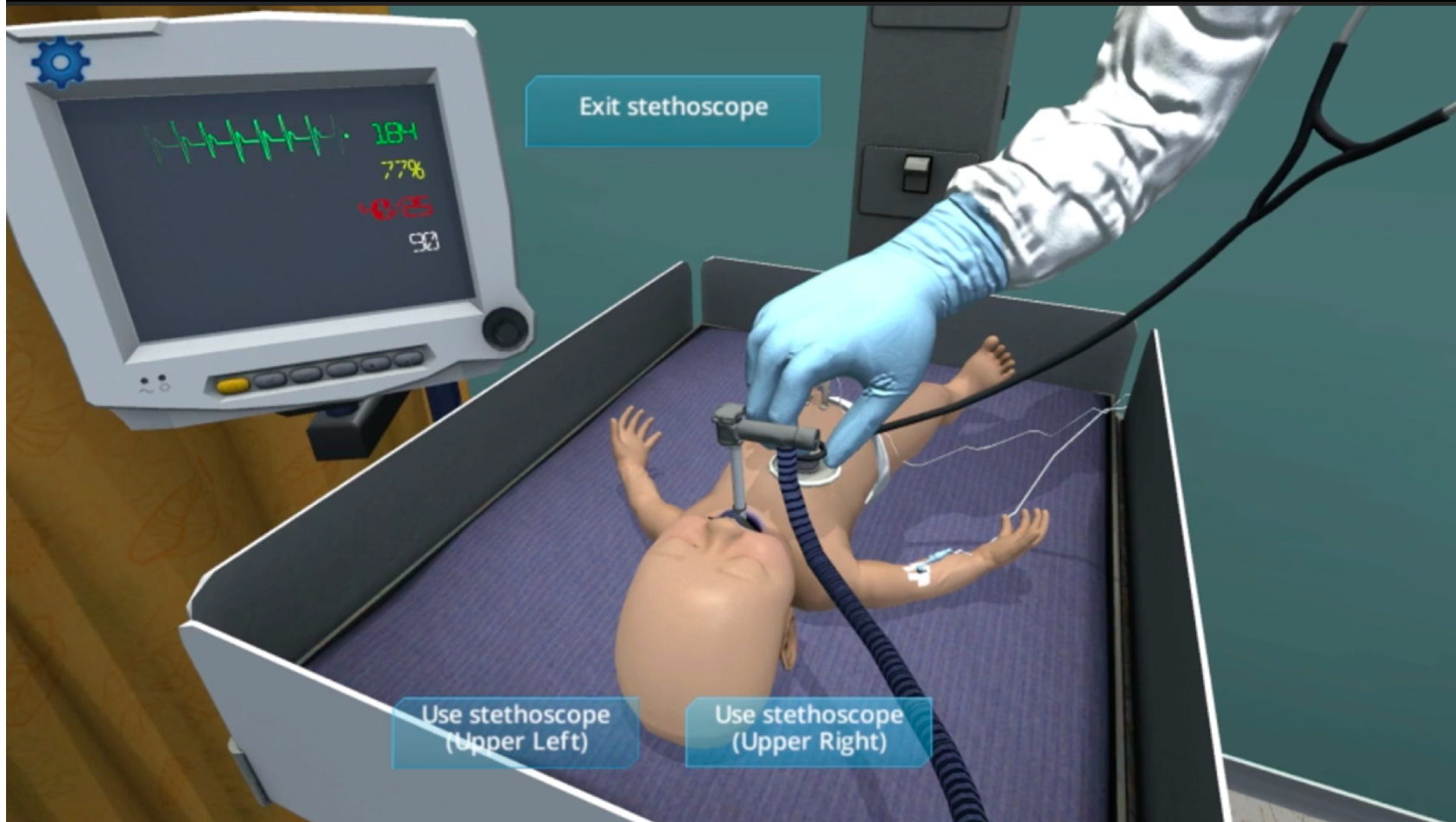
Adaptive Learning
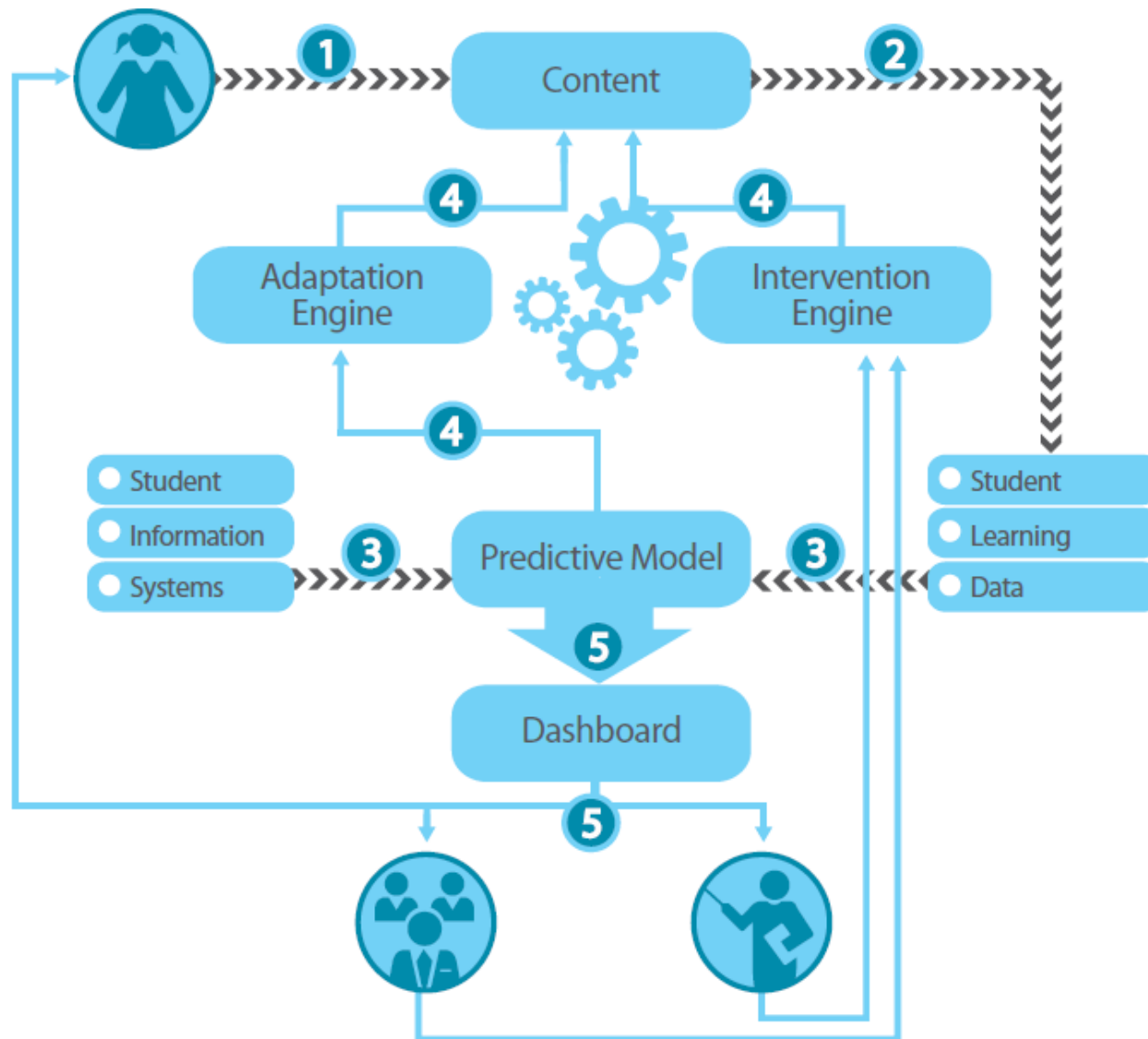
Considerations

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- **Learning outcomes**
- **Available access to hardware and software**
  - Data plans, network infrastructure, etc.?
- **Aptitude and willingness to embrace new technology**
- **Level of support available**
- **Capacity and budget for absorbing cost of new tools**
  - Is "free" only option?
  - How will ROI for any associated cost be determined?

Does your technology selection process resemble this?

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…or this?

…or this?

7 Steps for Choosing Technology Tools

Step 1: Start with Objectives

- **What should the instructor and/or students be able to do?**

- **What is the desired impact and outcome of the technology integration?**

Step 1: **Start** with your objectives

Step 2: Survey the technology landscape

- **What tools are the students and/or faculty already using?**
- **What tools are working well and what others are not?**
- **What tools are already provided and supported by the institution?**
- **What tools are restricted?**

Step 2: Survey your technology landscape

Step 1: Start with your objectives

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Step 3: Set the budget

- **Is a "free" solution required, or are resources available for a paid solution?**

- **Are any changes to the set available budget anticipated?**

Step 3: **Set** your budget

Step 2: **Survey** your technology landscape

Step 1: **Start** with your objectives
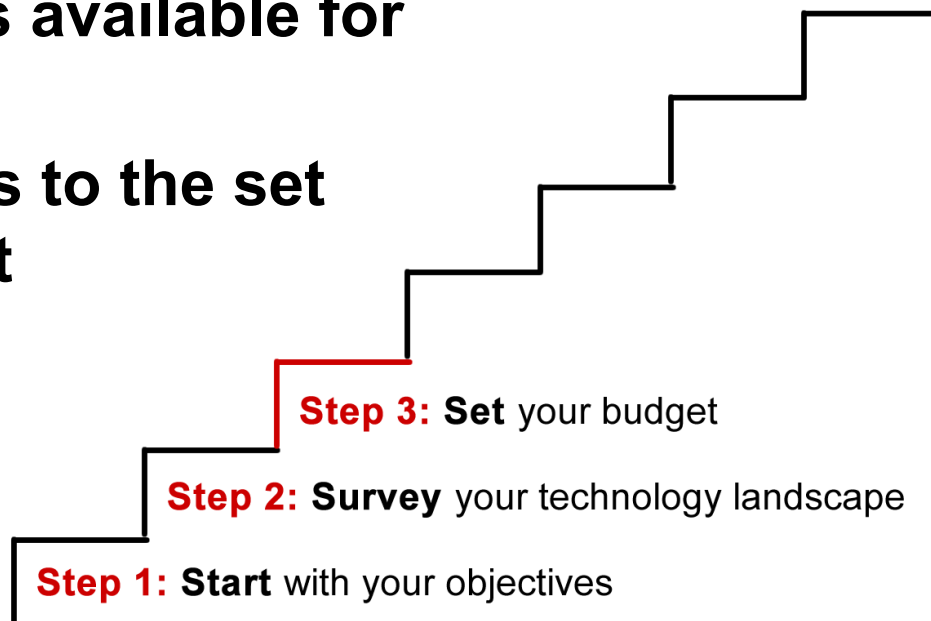
Step 4: Sample available tools

- **What are the pros and cons of each tool tried?**

- **What support is available for each tool?**

- **How does each tool integrate into the existing teaching and learning workflow?**

Step 4: Sample available tools

Step 3: Set your budget

Step 2: Survey your technology landscape

Step 1: Start with your objectives

Step 5: Select the tool

- **Why was the choice made to select the particular tool?**
- **What potential limitations were identified during the sampling of tools?**

Step 5: Select your tool

Step 4: Sample available tools

Step 3: Set your budget

Step 2: Survey your technology landscape

Step 1: Start with your objectives

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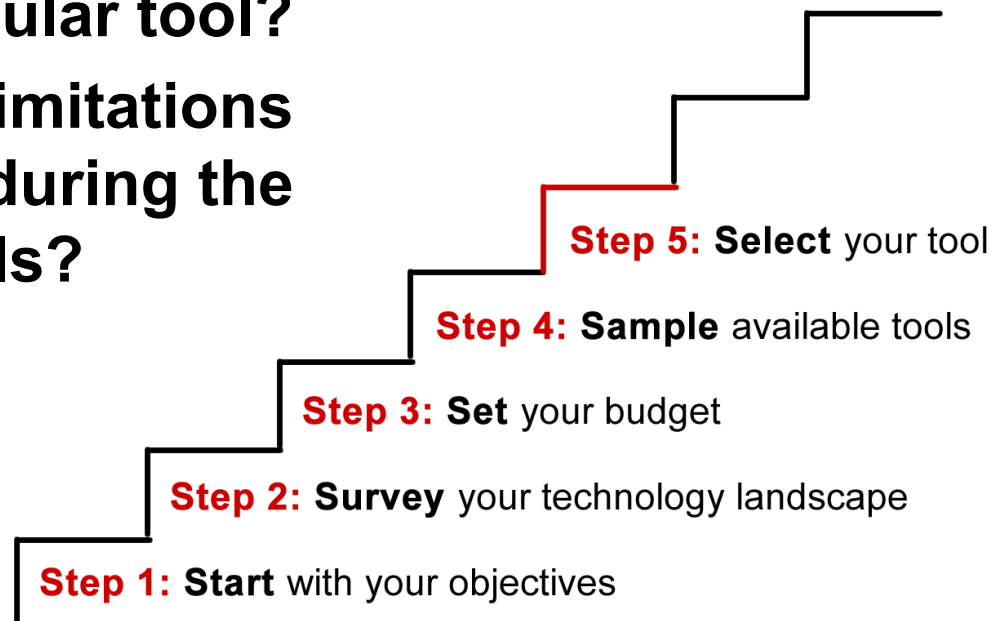
Step 6: Solidify parameters for use

- **How will the tool be used and how will it not be used?**
- **How long will the trial use of the tool last?**

Step 6: Solidify parameters for use

Step 5: Select your tool

Step 4: Sample available tools

Step 3: Set your budget

Step 2: Survey your technology landscape

Step 1: Start with your objectives
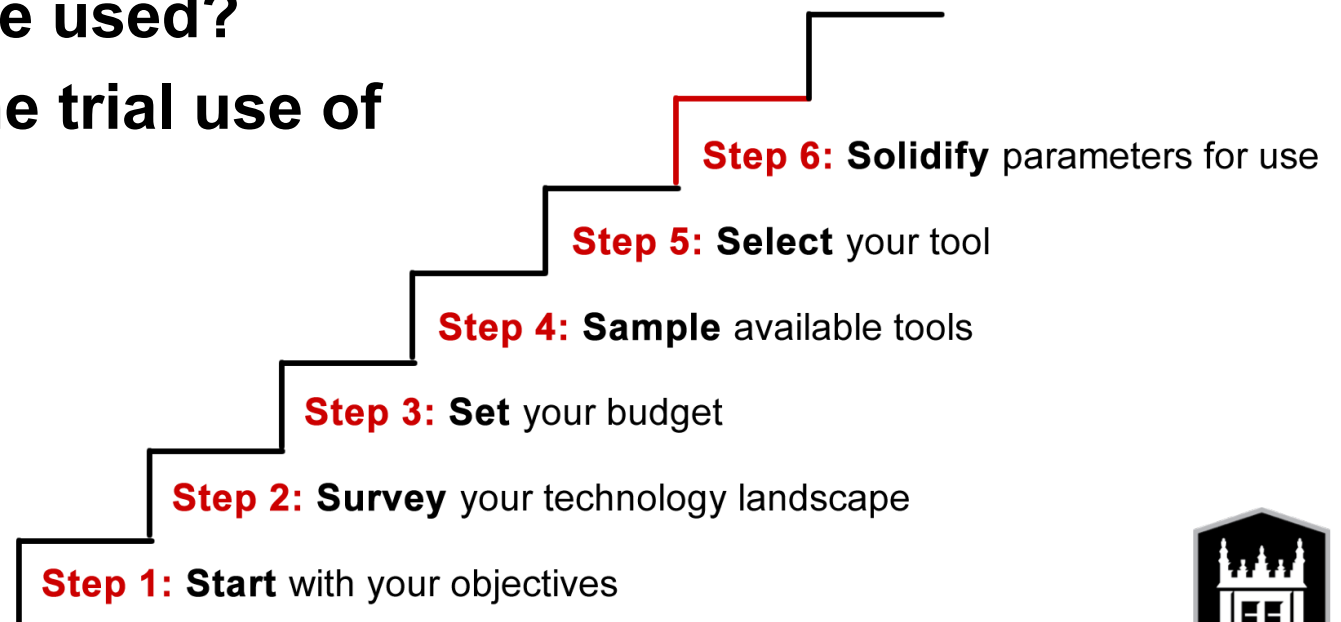
Step 7: Scrutinize the choice

- **Did the tool meet expectations?**
- **What feedback has been received from the students on their use?**
- **What unexpected issues did users encounter?**
- **Is the tool working well enough to continue using?**

Step 7: Scrutinize your choice

Step 6: Solidify parameters for use

Step 5: Select your tool

Step 4: Sample available tools

Step 3: Set your budget

Step 2: Survey your technology landscape

Step 1: Start with your objectives

Example

Step 1: Start with objectives

Questions for Consideration	Sample Responses
What should the instructor and/or students be able to do?	To record and provide short focused step-by-step video tutorials for students on how to use a specific software tool necessary for the course.
What is the desired impact and outcome of the technology integration?	For the instructor to be able to quickly record short video tutorials and to make available to students for viewing online via the LMS

Step 2: Survey the technology landscape

Questions for Consideration	Sample Responses
What tools are the students and/or faculty already using?	YouTube for viewing videos. Faculty have also dabbled with uploading videos recorded on mobile phone to YouTube.
What tools are working well and what others are not?	Faculty is comfortable with web-based tools that don't require installation or setup.
What tools are already supported by the institution?	The institution doesn't provide any recommended software tools for recording video tutorials (aka: screencasts)
What tools are restricted?	None

Step 3: Set the budget

Questions for Consideration	Sample Responses
Is a "free" solution required, or are resources available for a paid solution?	Yes, a free solution is needed
Are any changes to the set available budget anticipated?	Unfortunately no

Step 4: Sample available tools

Questions for Consideration	Sample Responses
What are the pros and cons of each tool tried?	Jing – free, requires installation, includes limited hosting space, recordings limited to 5 mins. Screencast-o-Matic – free, no installation needed, includes hosting space, recordings up to 15 mins. …
What support is available for each tool?	No support from the institution is provided for either tool, but both do provide online support community on their websites
How does each tool integrate into the existing teaching and learning workflow?	Jing requires a download and needs to be running on computer to record, while Screencast-o-Matic is completely browser-based, easier workflow for working from multiple computers

Step 5: Select the tool

Questions for Consideration	Sample Responses
Why was the choice made to select the particular tool?	Choice was made to try Screencast-o-Matic since it was browser-based and allowed for recording up to 15 minutes; also provides cloud-based storage options for either screencast-o-matic.com or private YouTube account, giving instructor increased options for where to store videos
What potential limitations were identified during the sampling of tools?	Download/installation as well as 5 minute recording limitation of Jing were significant limitations that Screencast-o-Matic didn't have; Neither solution allowed for easy editing of videos for post-production, but the ease of outweighs the editing limitations

Step 6: Solidify parameters for use

Questions for Consideration	Sample Responses
How will the tool be used and how will it not be used?	Will be used to record on-screen step-by-step tutorials 5-10 minutes in length, on performing particular software tasks necessary for the course.

Will not be used for recording other topic intro videos of the instructor, in which recording using a mobile phone and uploading to YouTube will suffice |
| How long will the trial use of the tool last? | Screencast-o-matic will be used for an entire semester, then re-evaluated after the semester |

Step 7: Scrutinize the choice

Questions for Consideration	Sample Responses
Did the tool meet expectations?	Yes! Tool was very easy to use. Links to videos could easily be posted in LMS and/or videos embedded for students to access
What feedback has been received from the students/instructor on their use?	Students reported being able to view from either computer browser or mobile device. Instructor workflow to record and upload was simple.
What unexpected issues did users encounter?	Experienced small glitch trying to upload to personal YouTube account, instead used screencast-o-matic.com hosting and made videos unlisted
Is the tool working well enough to continue using?	Yes! Worked very well, no issues. Will use again the next semester.

Closing Thoughts

Keep in Mind

- **Pedagogical potential of instructional technologies**
- **Technology tools can enable teaching and learning experiences otherwise not possible**
- **Technology tools should never be used simply for novelty sake, but should be a means toward achieving an instructional goal**

Q&A

Slides & videos available at:

jasonrhode.com/ecc2018