



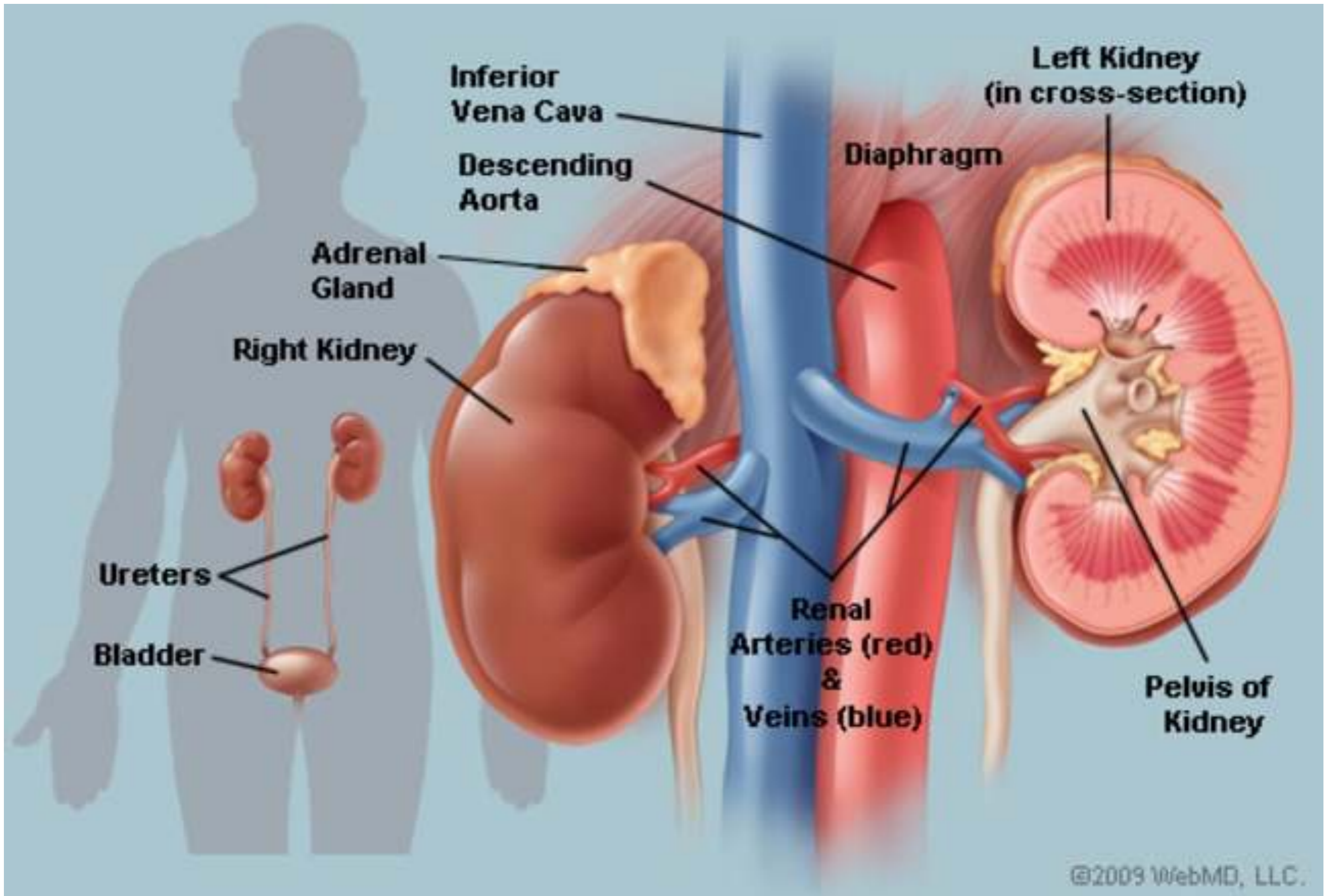
New Approaches to Education in the COVID Era

M. Tyson Pillow, M.D., M.Ed.

**No financial
disclosures.**



1. Discuss the shift to the virtual teaching space
2. List at least 3 best practices for virtual teaching with technology
3. List at least 1 pitfall for virtual teaching with technology



“Today’s students are no longer
the people our educational
system was designed to teach.”

-Marc Prensky,
Digital Natives, Digital Immigrants

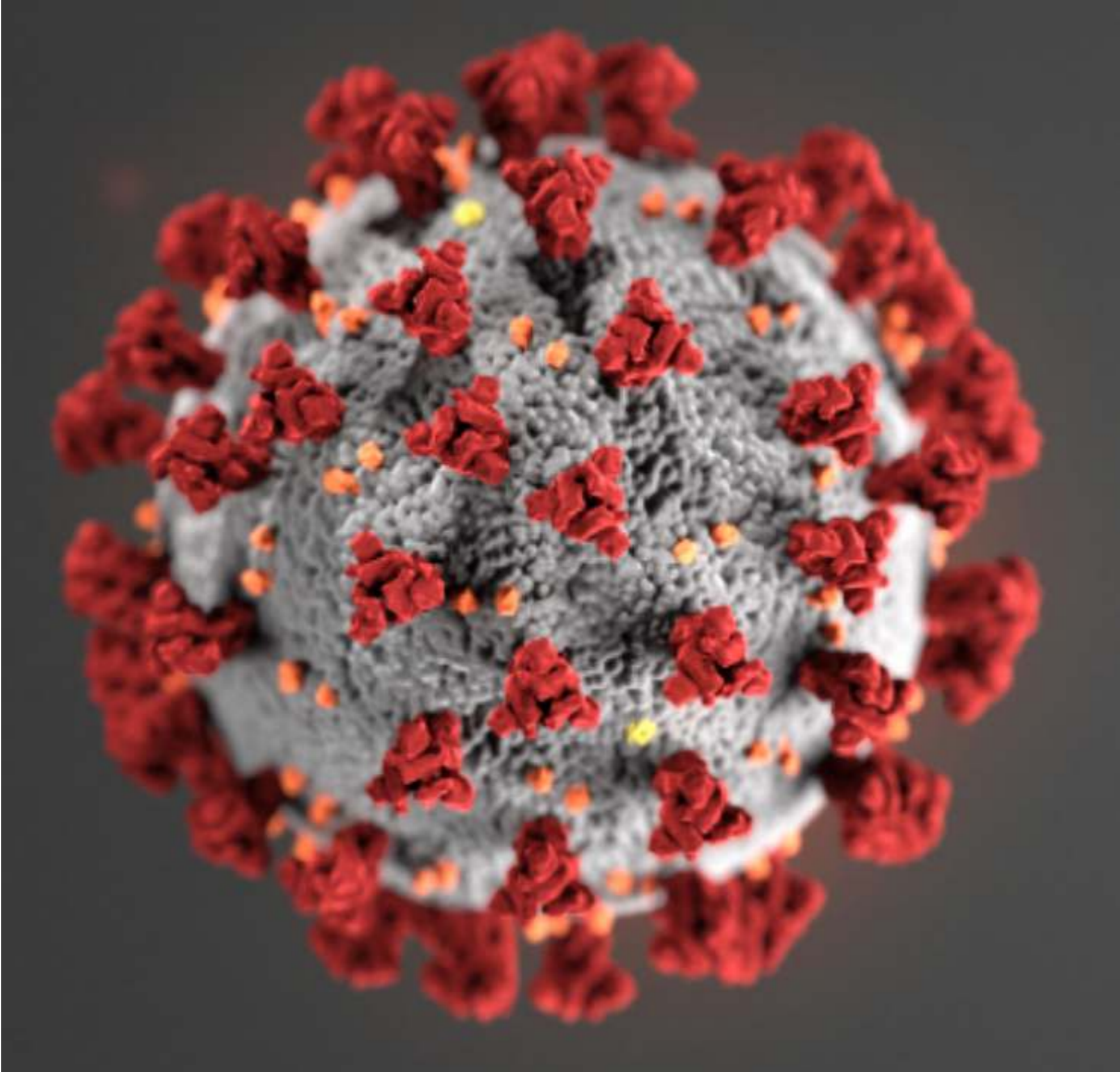
2013

Just Imagine: New Paradigms for Medical Education

Neil B. Mehta, MBBS, MS, Alan L. Hull, MD, PhD, James B. Young, MD, and James K. Stoller, MD, MS

Medical Education Reimagined: A Call to Action

Charles G. Prober, MD, and Salman Khan

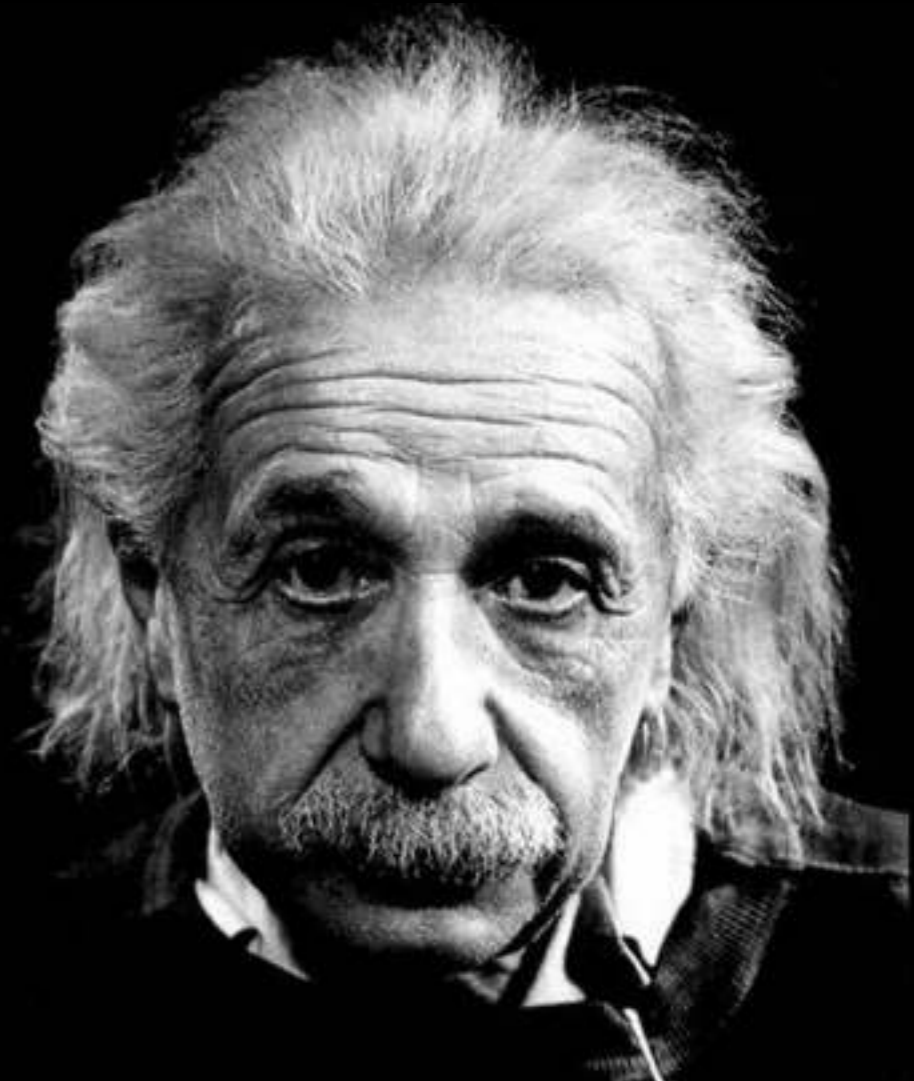


A person wearing a white lab coat is holding a blue, cloud-shaped sign with both hands. The sign has the words "Embrace Technology" written on it in white, sans-serif font. The background is a soft, out-of-focus white.

Embrace
Technology



“I never teach my pupils;
I only attempt to
provide the conditions in
which they can **learn**.”

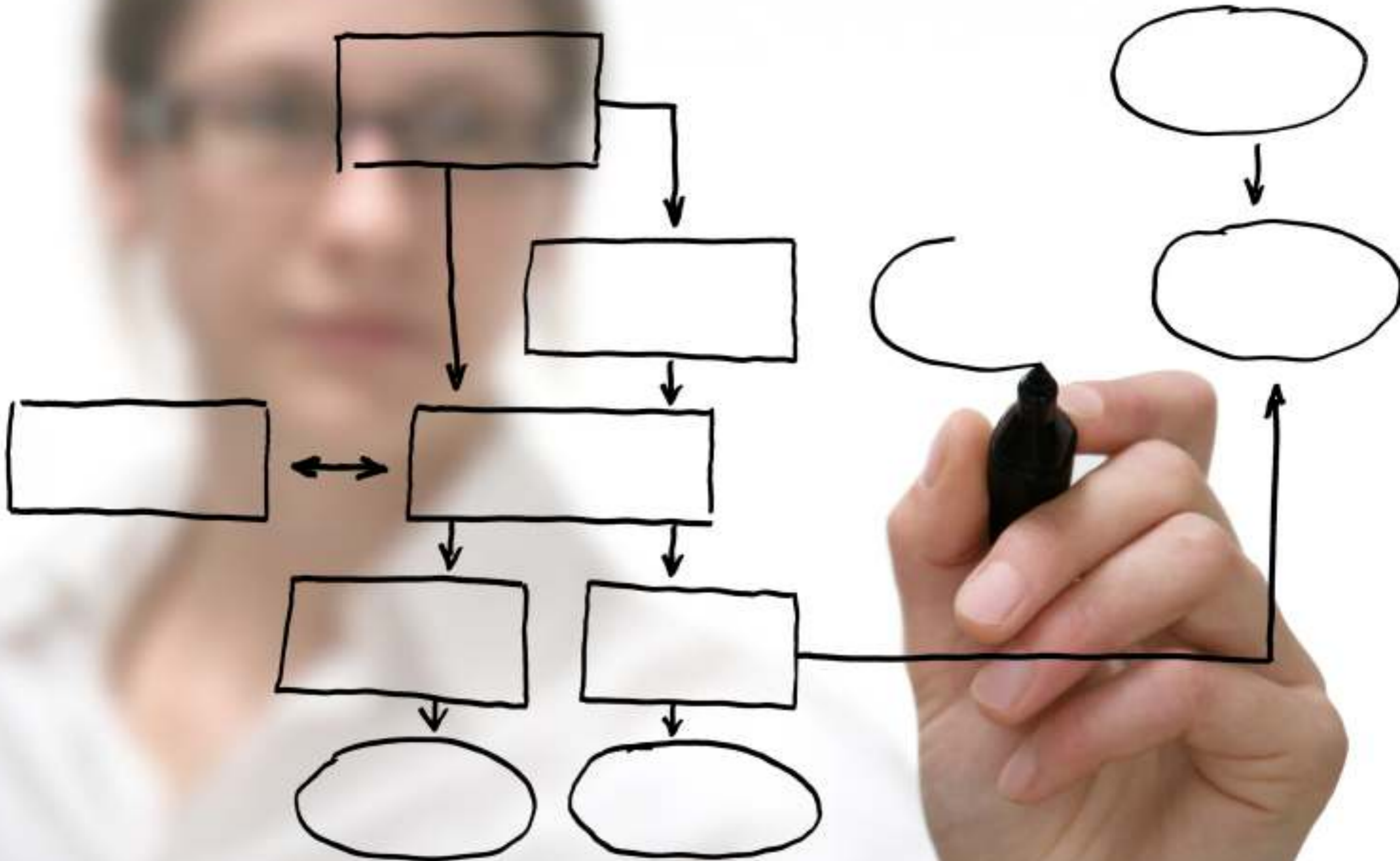


Educational design is the creation of curriculum and instruction which optimizes an immersive learning environment

-Me



Process



Educational technology

“...a process-oriented and systems-based pedagogical approach for facilitating learning and improving performance in patient care by the integrated mode of creating, using, and managing technological process and resources.”

Han, et. al. Teach and Learn in Med. 2013;25(SI):S39-43

The importance of educational theories for facilitating learning when using technology in medical education

JOHN SANDARS¹, RAKESH S. PATEL², POH SUN GOH³, PATRICIA K. KOKATAILO⁴ & NATALIE LAFFERTY⁵

Integrating Educational Technology in a Virtual World

1. Infrastructure
2. Digitizing your materials
3. Enhance communications
4. SAMR

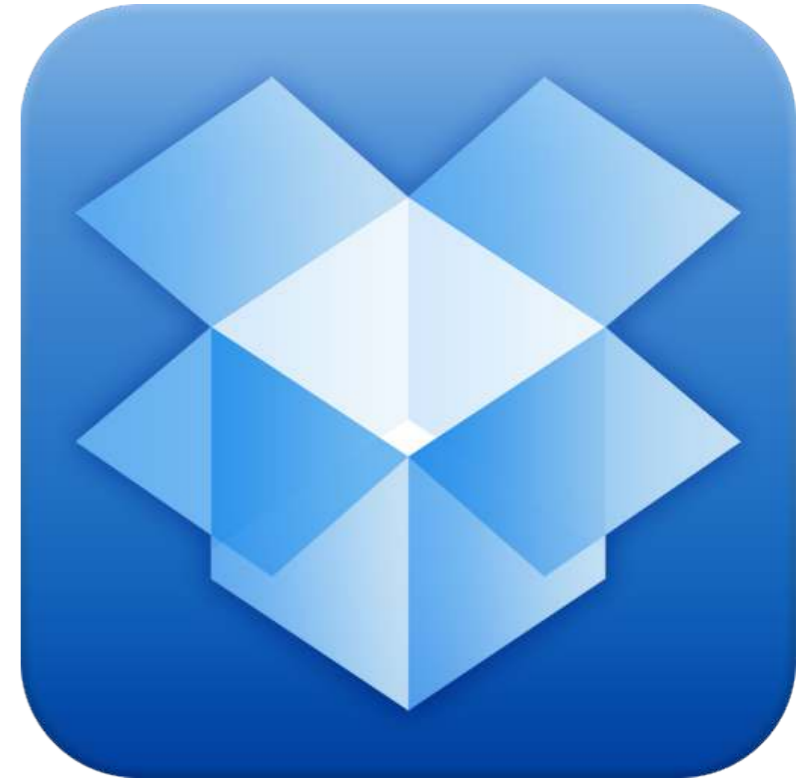


Infrastructure

Think about your platform, set-up, and support before you sit down to teach.



Cloud Storage



Virtual Meetings



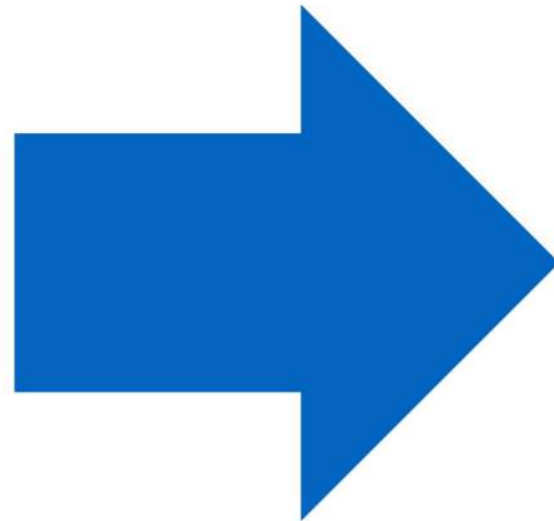
Best Practices - Infrastructure

1. Be familiar with the presentation platform
2. Provide key links and materials
3. Consider another colleague/assistant to manage the “back channel”
4. Utilize other apps and platforms to supplement the presentation

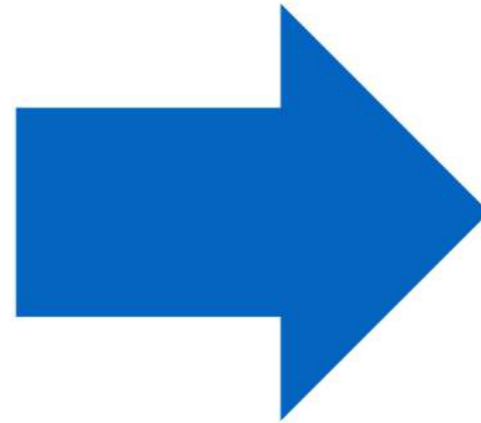
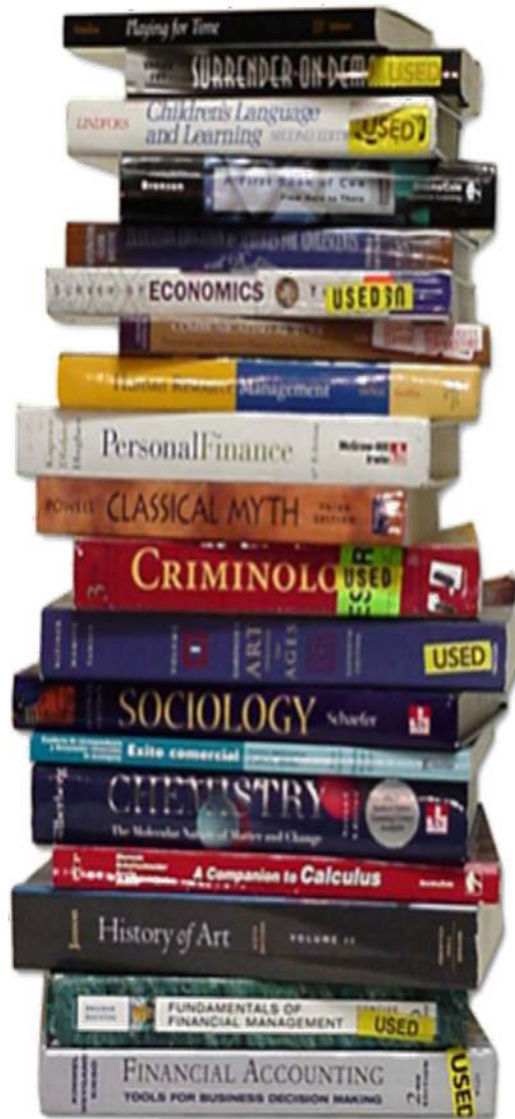


Becoming paperless

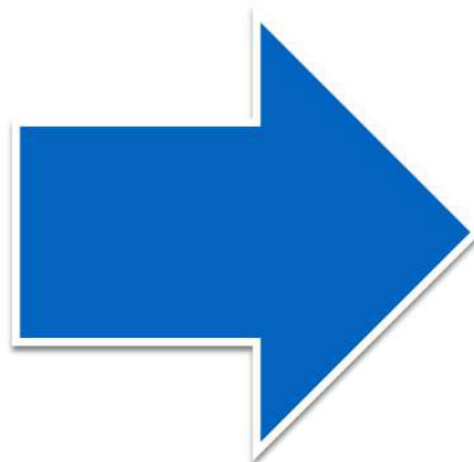
Step 1: Mimic your paper system



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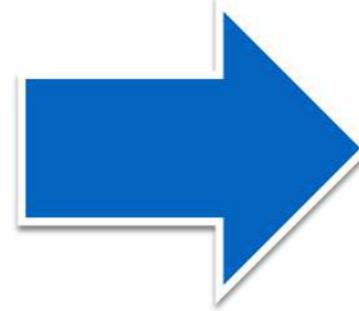
Step 1: Mimic your paper system



Step 1: Mimic your paper system



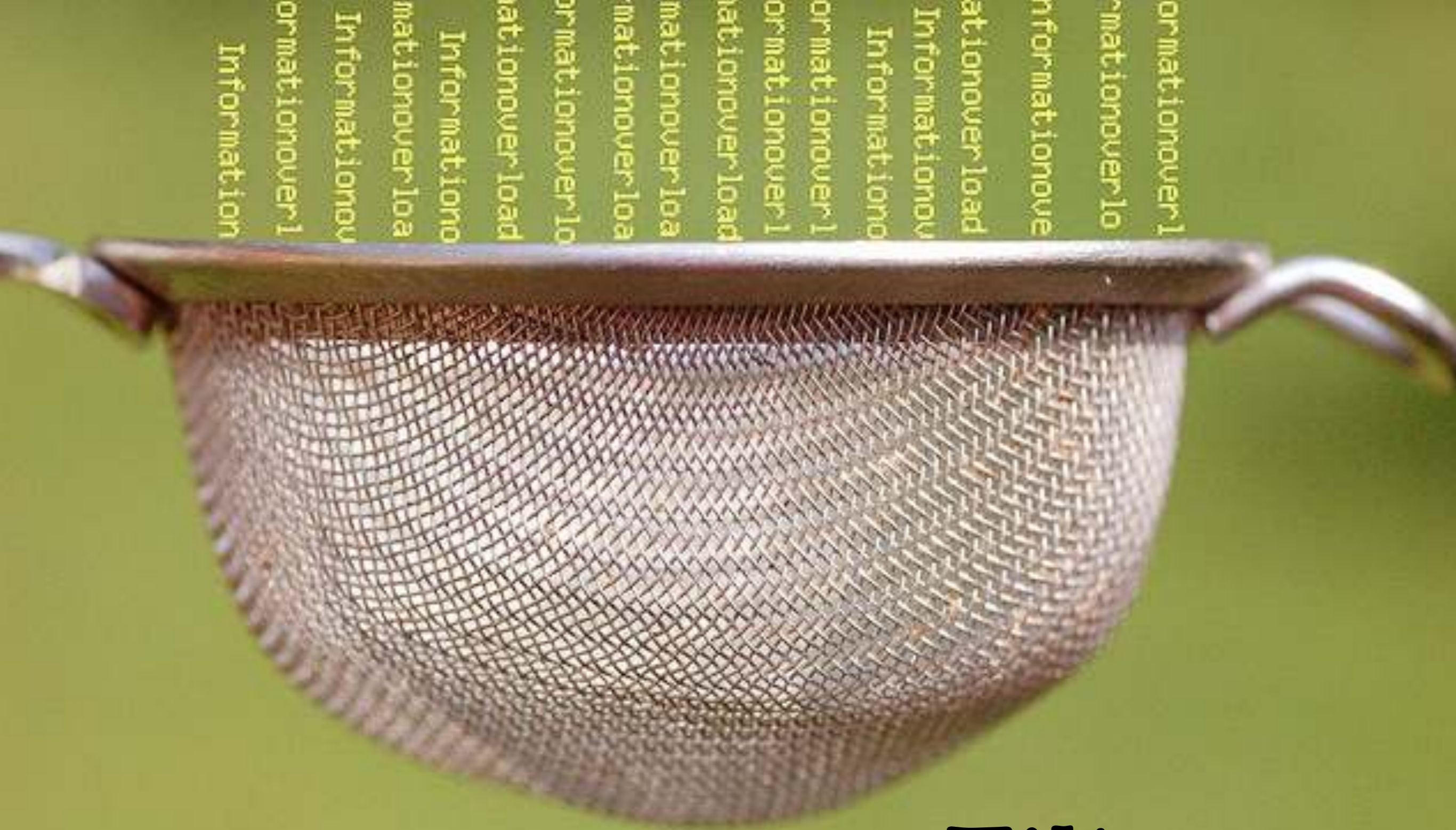
Step 1: Mimic your paper system



Best Practices - Digitization

1. Mimic your paper system
2. Go “all in” with your digital system
3. Empower faculty and learners



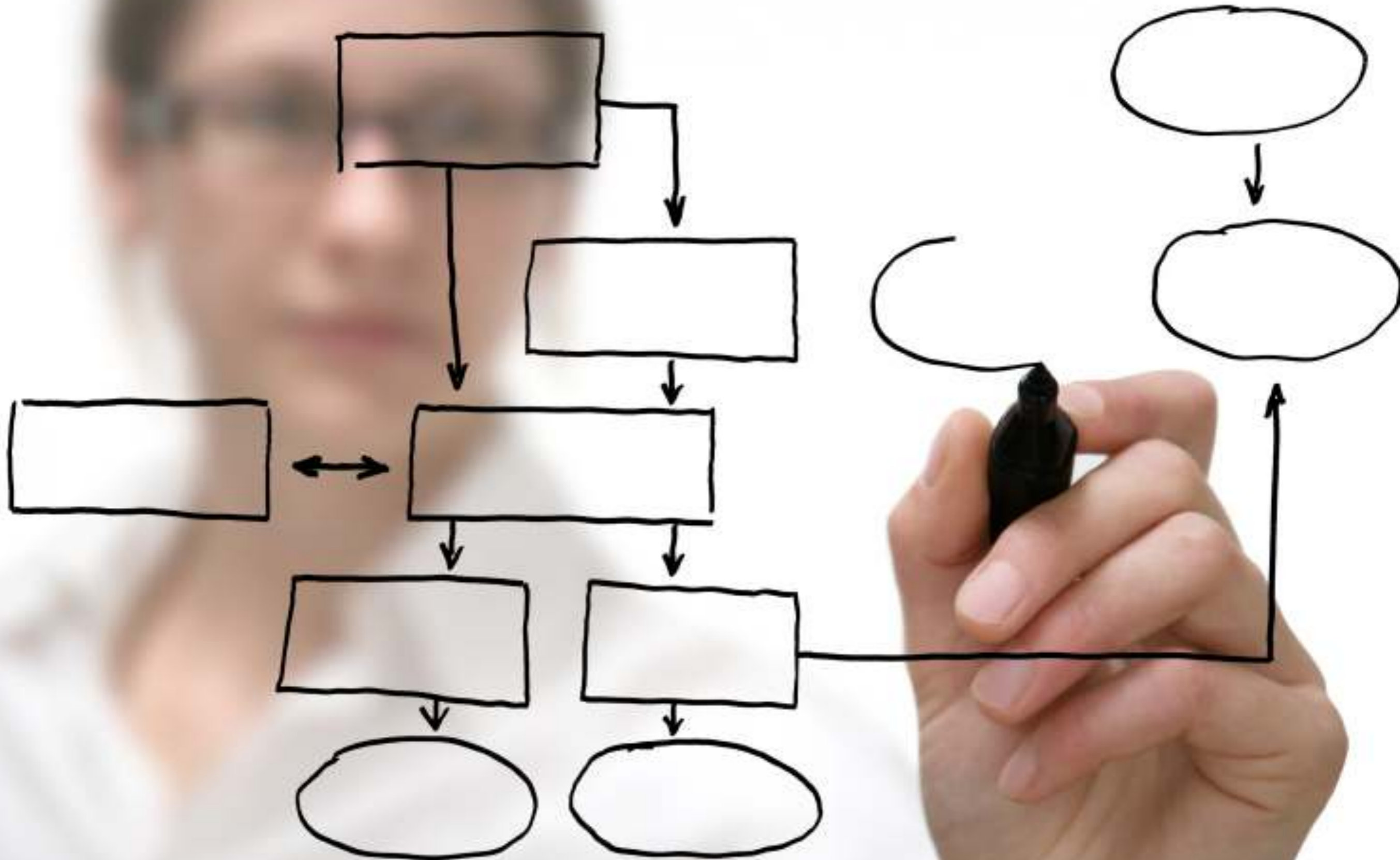


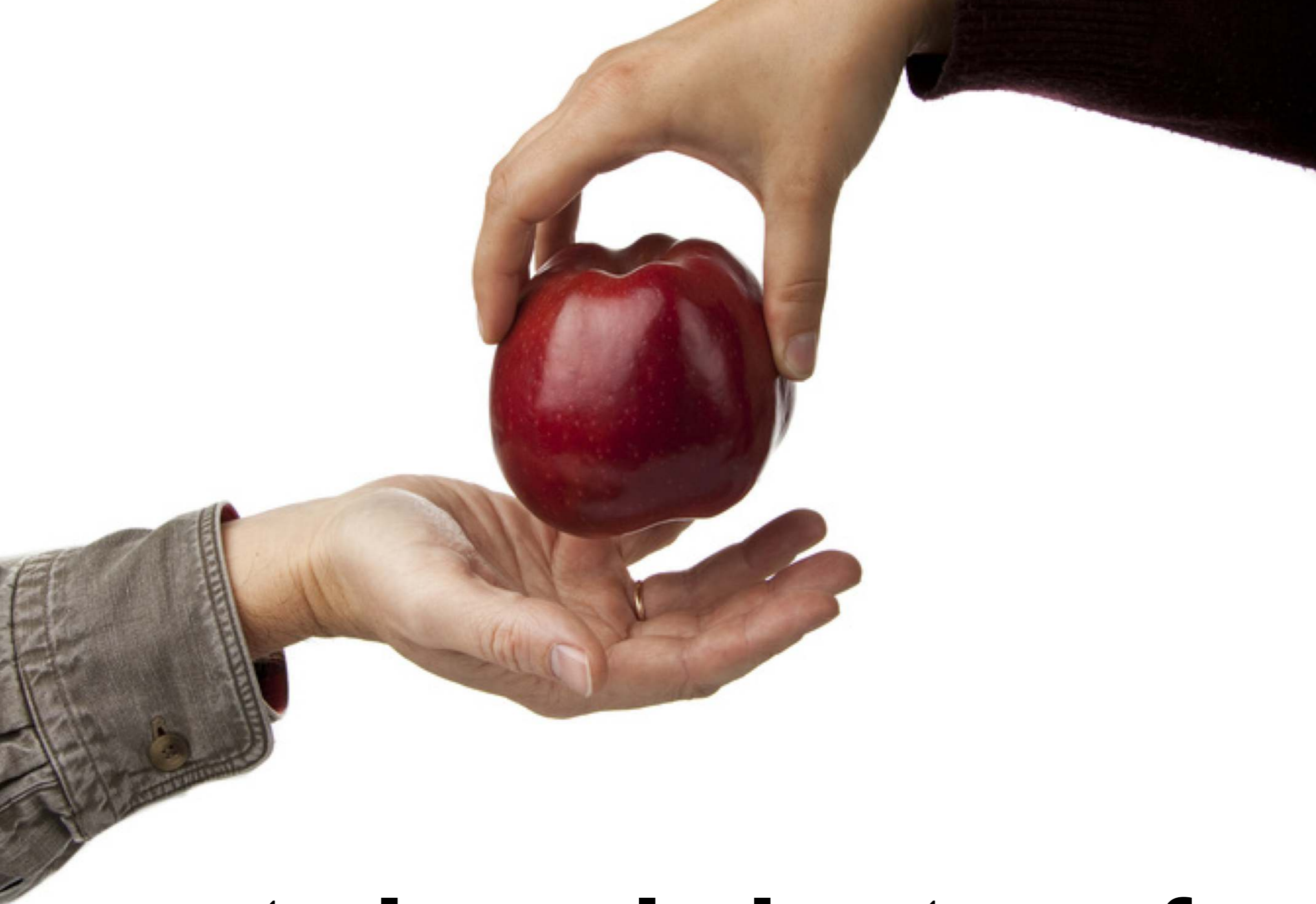
Filter

Your Message

Information

Storyboarding





romote knowledge transfer



Best Practices - Communications

1. Filter your message
2. Create a narrative
3. Promote knowledge transfer
4. Expand the time

SAMR Model

Substitution

Augmentation

Modification

Redefinition

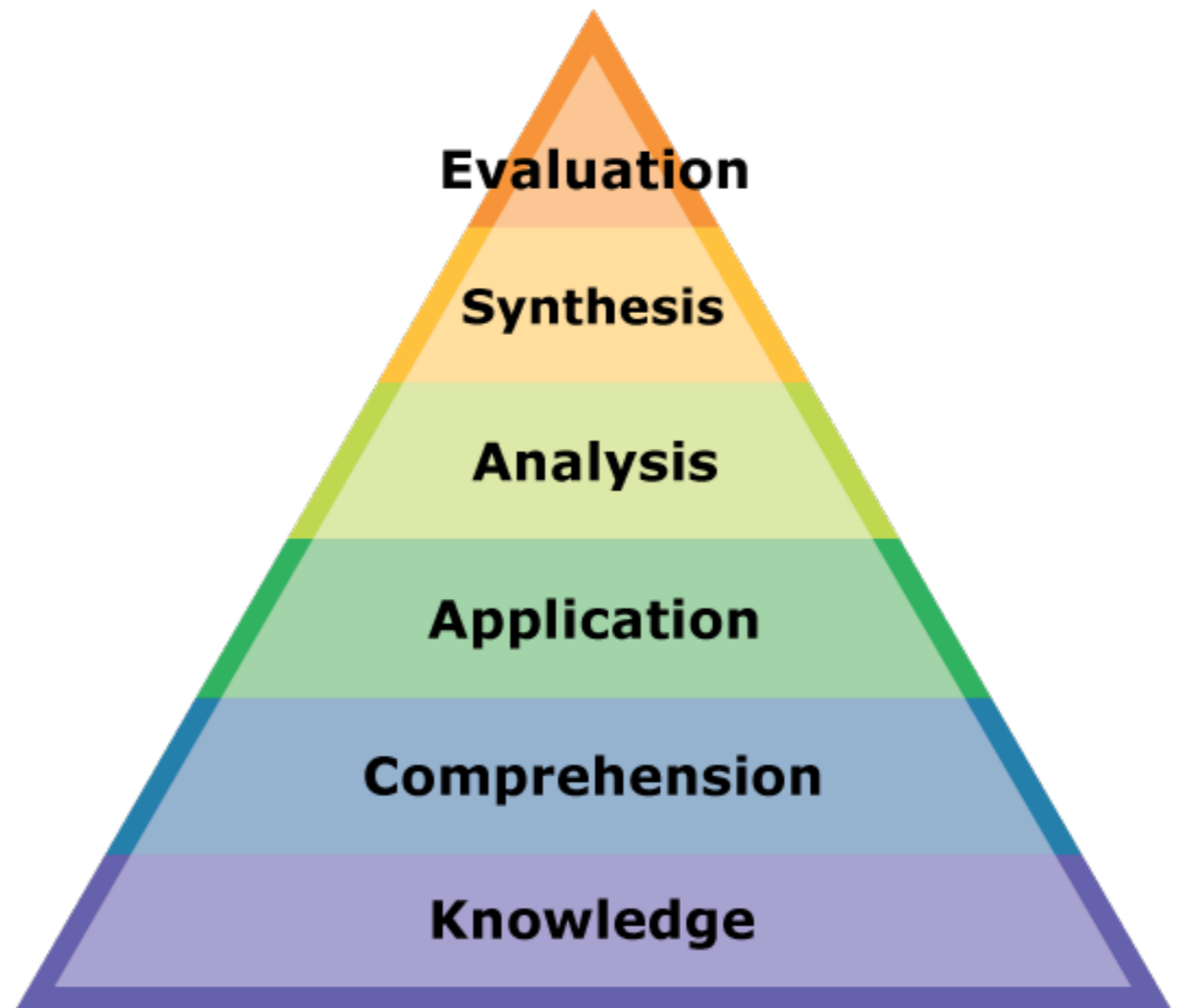
SAMR and Bloom's

Redefinition

Modification

Augmentation

Substitution



SAMR Model

Redefinition

Modification



Transformation



Augmentation

Substitution



Enhancement

The SAMR Model for Technology Integration

SAMR

I wonder what's in the ocean?



NO TECH

SUBSTITUTION
Tech acts as a direct tool substitute, with no functional change.

AUGMENTATION
Tech acts as a direct tool substitute, with functional improvement.

MODIFICATION
Tech allows for significant task redesign.

REDEFINITION
Tech allows for the creation of new tasks, previously inconceivable.

ENHANCEMENT

TRANSFORMATION

@sylviaaduckworth
f@edappadvice

Summary

Integrating Educational Technology in a Virtual World

1. Infrastructure
2. Digitizing your curriculum
3. Enhance communications
4. SAMR



Take your time...



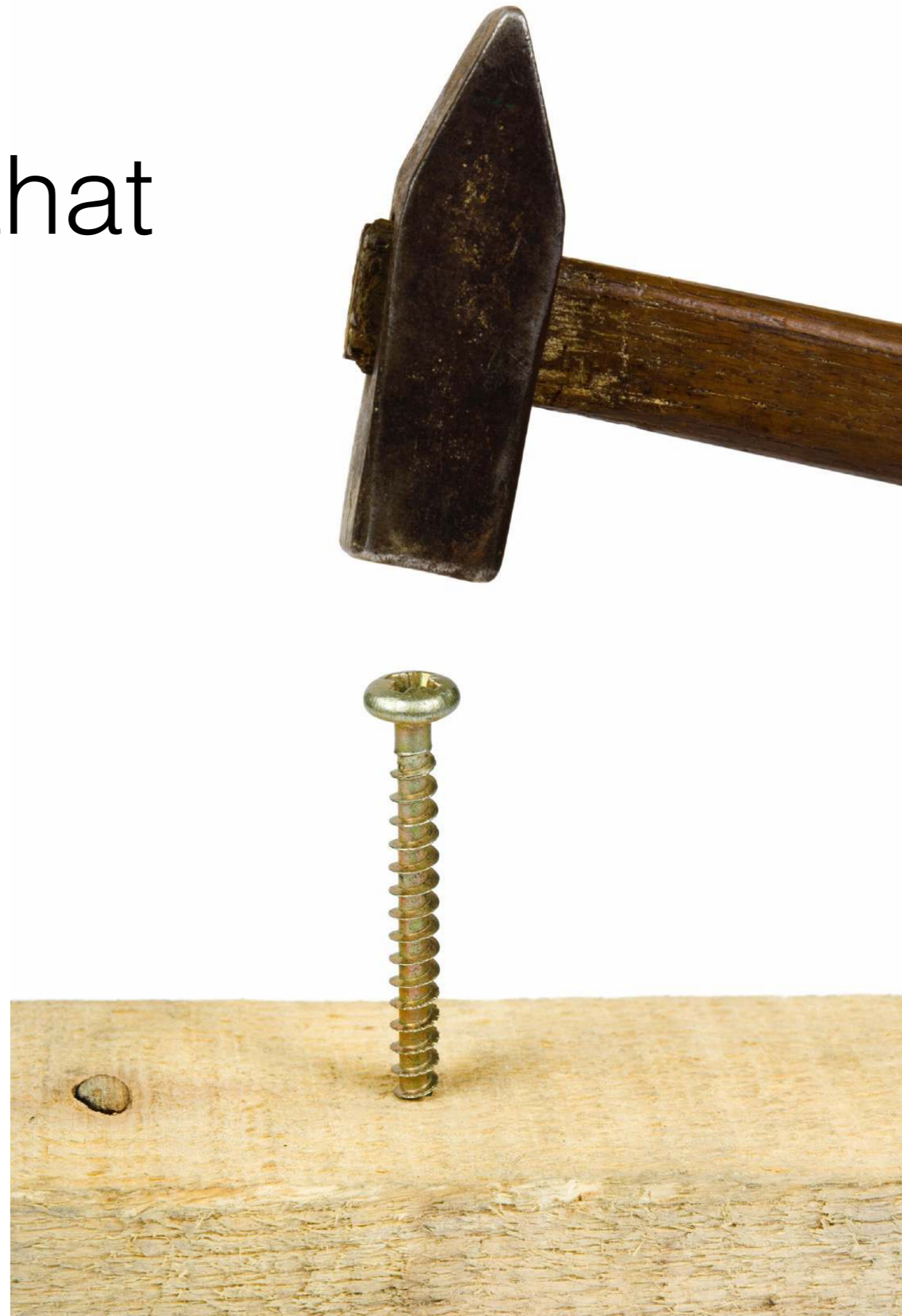


Experiment and innovate

Adopt the
beginner's mind



...but recognize that
it is just a tool



Simplicity



Cases

Case #1: A 14 year male old who weighs 45 kg. started in-cer

1. How should the dialysis team educate this young adult as well as his family to help them understand that removing large amount of fluid each time he dialyzes creates an adverse condition not only on the cardiovascular system but other organ systems as well.
2. How we educate this young adult and his family and help them understand long term consequences of large fluid fluctuations?

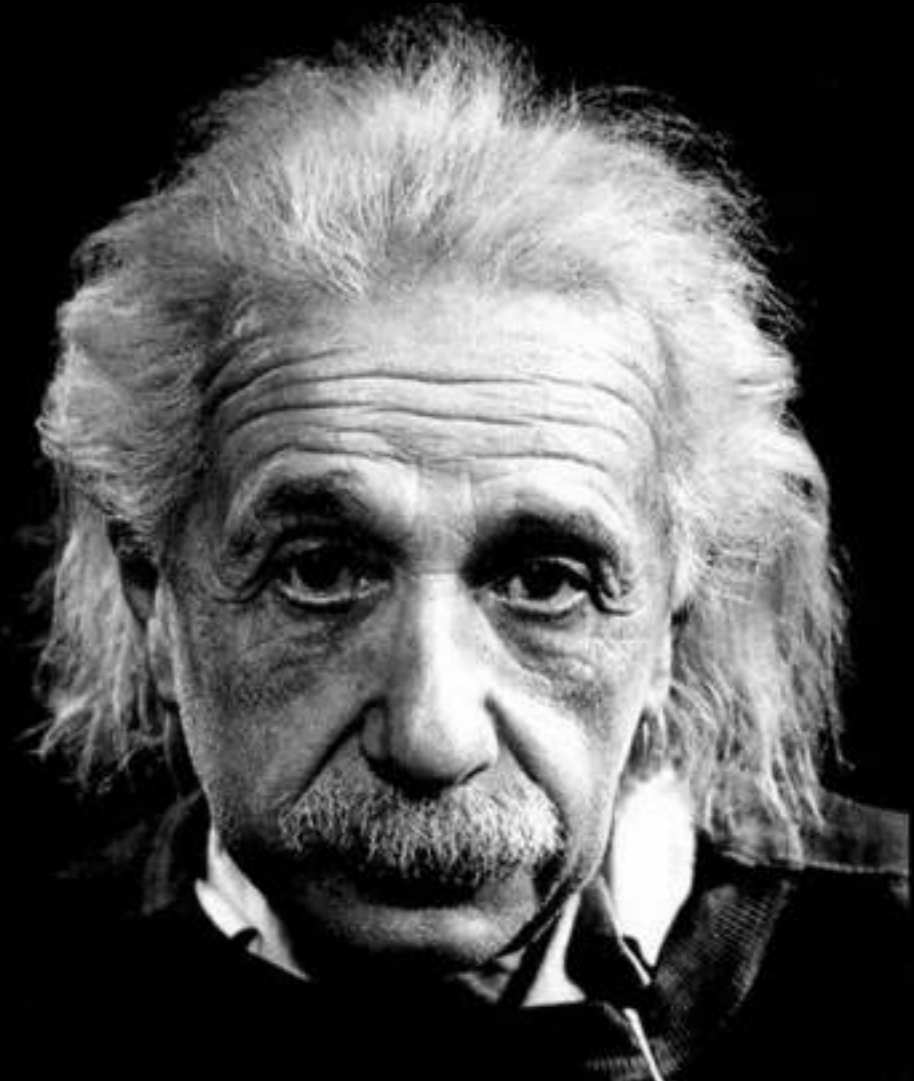
Case 2: This is a young male adult who recently graduated from

1. How do you engage a young person whose future is ahead?
2. How do you evaluate their understanding and comprehension?

Case #3: This is a 53 year old female patient on peritoneal dialy

1. How do we implement a teaching strategy to make the mess
2. Can we do patient education virtually, and how do we do it?

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I only attempt to
provide the conditions in
which they can **learn**.”





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