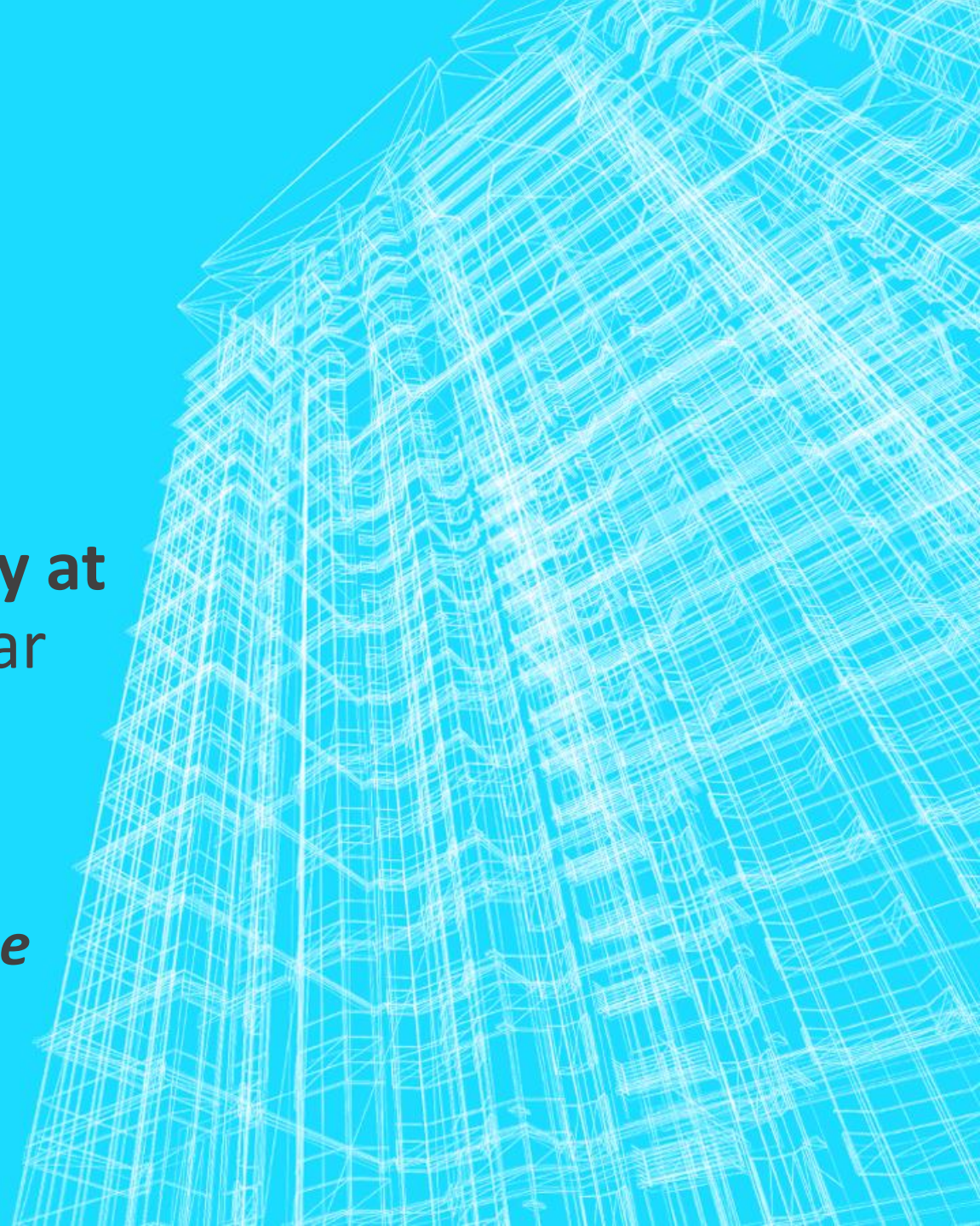


# PRE-PRESENTATION PARTICIPANT DAYDREAMING QUESTION:

If you could spend this COVID-19 “**Stay at home**” **lockdown** time in any particular house on earth, what would that look like? Where would it be?

*Please descriptively type it in the chat or be ready to share it verbally shortly.*

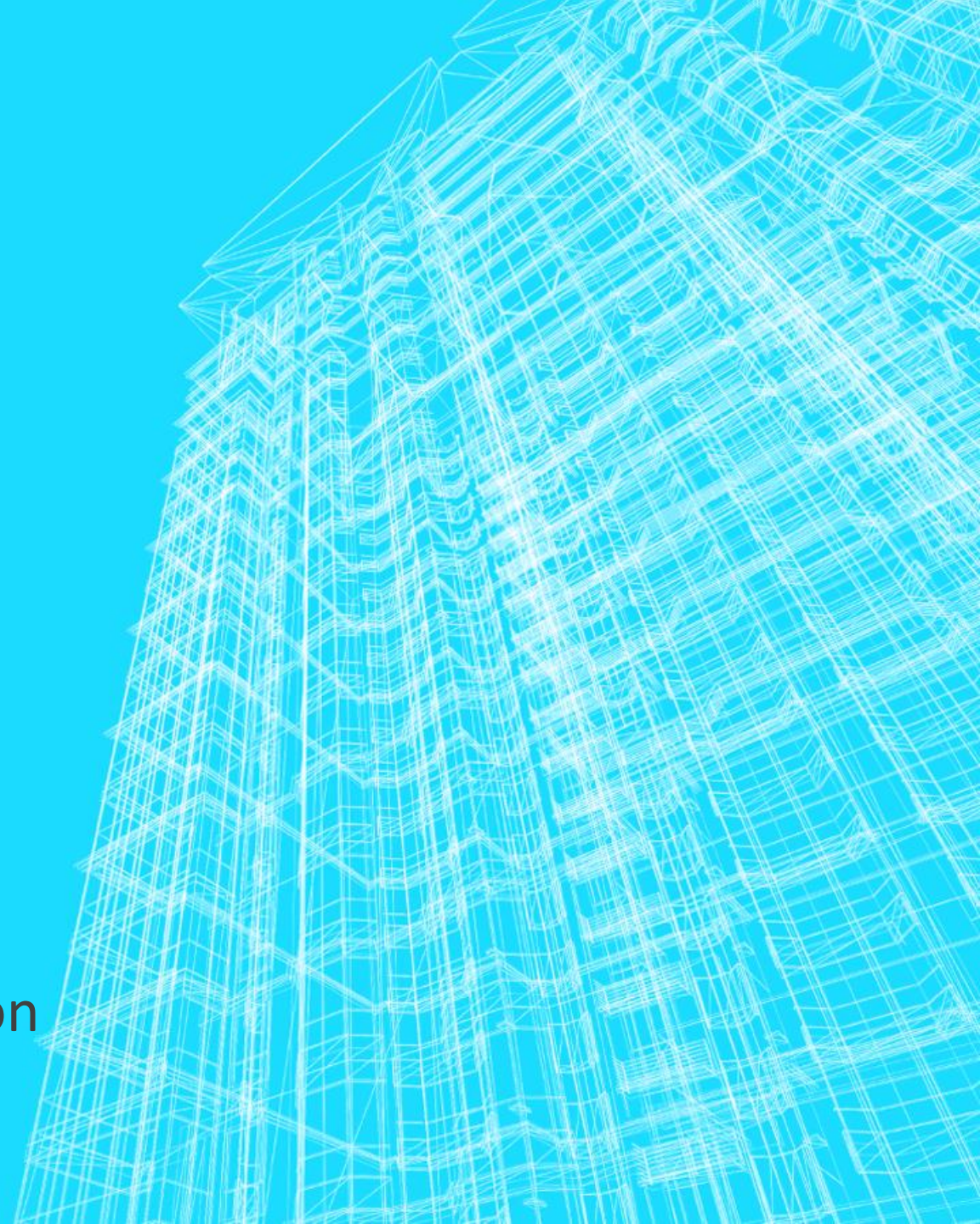




# FROM THE GROUND UP:

GROUNDING RESEARCH WITH  
CONCEPTUAL/THEORETICAL  
FRAMEWORKS

Jana Mulkern, EdD  
Associate Director, BUMC IT - EdMedia  
Lecturer in GMS Health Professions Education



# CONDUCTING YOUR RESEARCH STUDY IS LIKE BUILDING A HOUSE





# Design, Layout, Fixtures, Furnishings: Intro, Lit Review, Methods, Findings, Data Analysis, & Recommendations



**Digging & Laying Foundation:**  
Topic, Purpose, Research Question



# LEARNING OBJECTIVES

By the end of this session, participants will be able to:

- **Recognize & Discuss** various sources for conceptual and theoretical frameworks
- **Construct** (through brainstorming on own and/or with peers) a list of relevant topics or themes to explore post session
- **Assess & Select** potential frameworks for validity, application, and relevance



# FRAMING A HOUSE TO LAST: GIVE YOUR STUDY GOOD BONES

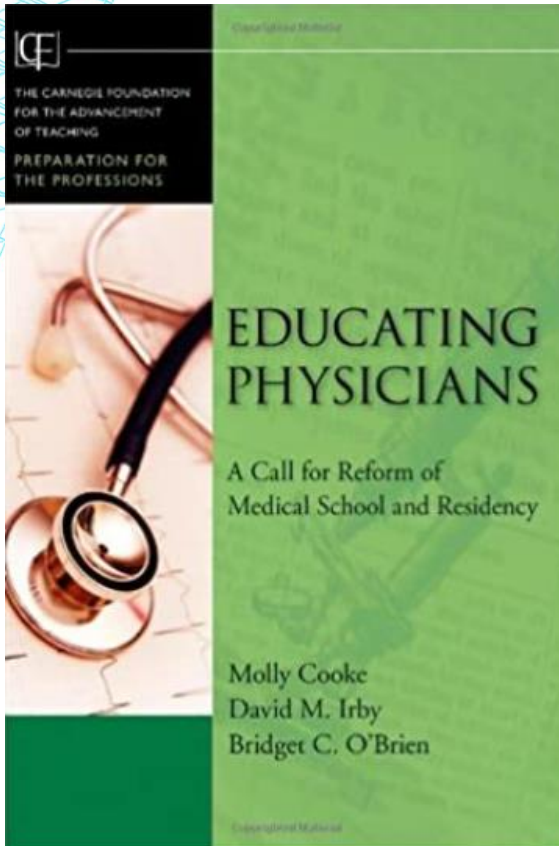
- **Iterative Process just like drawing plans: Various sources, design choices**
  - *Source examples: Starting point for your research topic? Lit Review – Common models? Topic areas of your study? Emerging themes from findings and data analysis? Other hot topics in your field that relate?*
- **Home Model & Plans** – tested and ready to build = **Existing Framework, Model, Theory, Concept** – Relative to your study.
- **Custom Built Home** – Use your research to design a framework, model, concept or theory. Often models build on other models or fill gaps in the research.



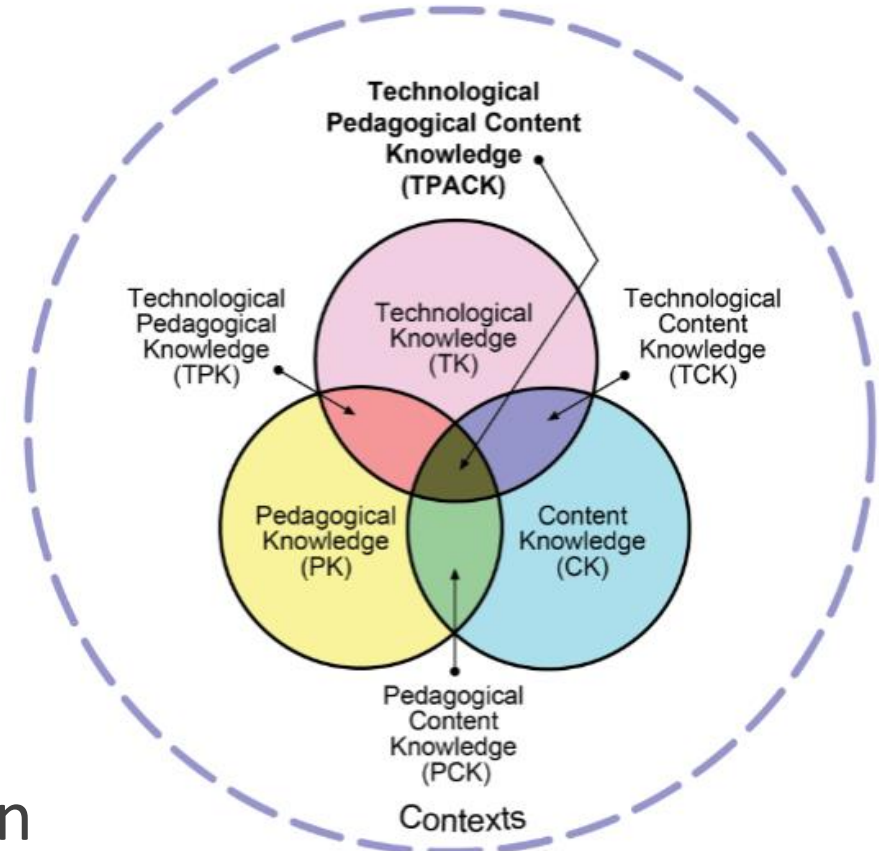


# FRAMEWORK EXAMPLES FROM A NOVICE RESEARCHER'S DISSERTATION

RQ: How are BUSM faculty members navigating, shaping, and instituting changes to curriculum (involving technology, pedagogy, and content integration)?



- 4-pillars of Carnegie Recommendations 1910 & 2010:
1. Standardization and individualization
  2. Integration
  3. Habits of Inquiry and Improvement
  4. Professional Formation



Mishra & Koehler, 2006



# ALIGNING STUDY THREADS TO SUBJECTS & FRAMEWORK AREAS

Study Thread & Adoption Timing	Subjects	Conceptual Framework: TPACK Area(s)	Carnegie Recommendation Areas
<b>Technology:</b> -Lecture Capture: 2006 -CBE: 2010-2012 -Virtual Micro: 2007	All 1 <sup>st</sup> & 2 <sup>nd</sup> year instructors	Lecture Capture: TPK Exams: TPACK Virtual Microscopy: TPACK	Standardization and Individualization
<b>Pedagogy:</b> student-centered active learning environments: <i>ongoing adoption</i>	All 1 <sup>st</sup> & 2 <sup>nd</sup> year instructors	PCK with opportunities for TPACK when technology used in these environments	Habits of Inquire and Improvement
<b>Content:</b> PrISM implementation: 2015 Based on DRx: 2006	PrISM & Mod Directors (primary) DRx for historical comparison	TPACK: Technological Pedagogical Content Knowledge	Standard & Indiv, Integration, Habits of Inquiry and improvement, & Professional Formation



# HOW DO THEY CHANGE? ON ADOPTION & CHANGE LEADERSHIP STYLES:

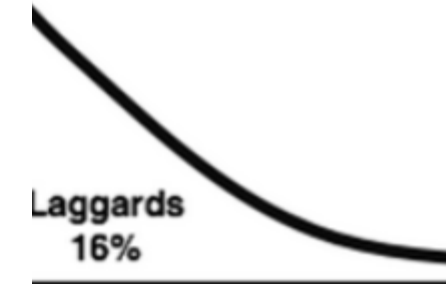
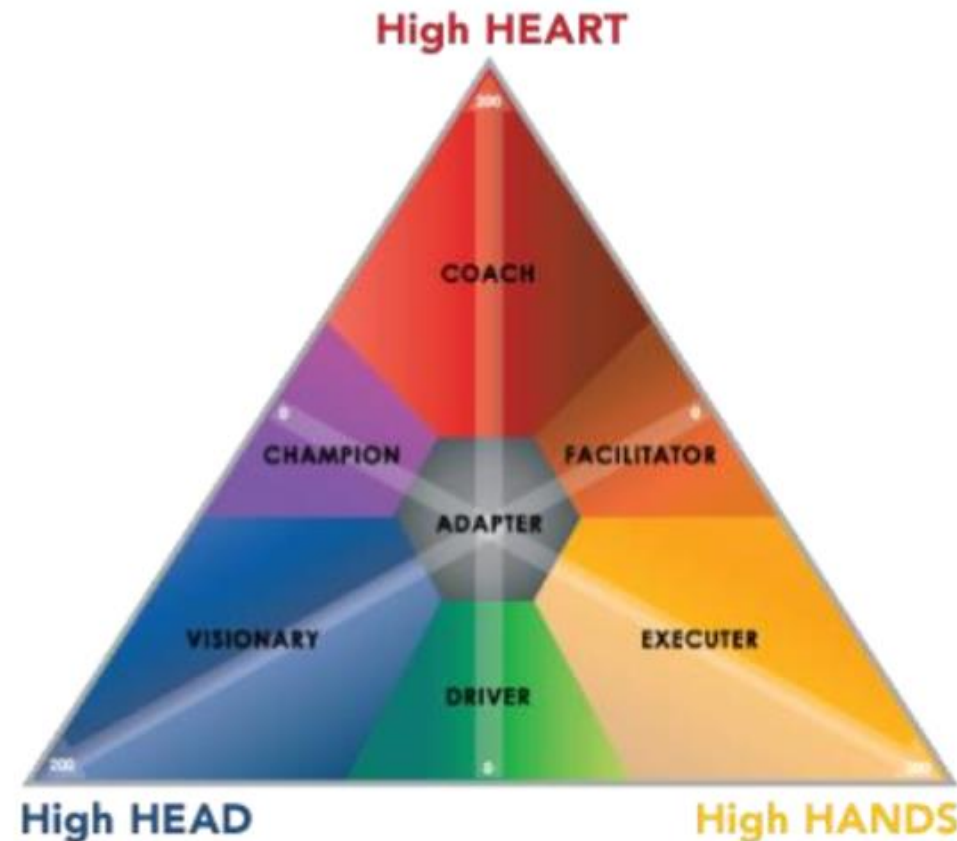
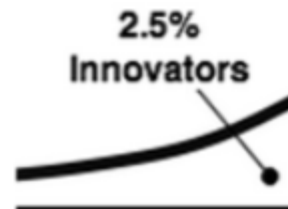
Change Intelligence: Change Leadership Styles

Trautlein, 2013

Roger

Adopted Frequency

Rogers, 1962 & 2003





# A FEW SAMPLE EXPLORATION RESULTS WITH LISTS FOR RESEARCH GENRES

- **Education Research:** Theoretical Framework as blueprint for your house !!!  
<https://files.eric.ed.gov/fulltext/EJ1058505.pdf>
- **Implementation Research:** A Review from University of Washington:  
<https://impsciuw.org/implementation-science/research/frameworks/>
- **Dissemination & Implementation Research:**  
<https://www-sciencedirect-com.ezproxy.bu.edu/science/article/pii/S0749379712003893>





# YOUR TURN – WHAT’S YOUR RESEARCH GENRE OR TOPIC AREA TO EXPLORE?

- Brainstorm & discuss or list – where is your research house located (science/industry genre) – what topic areas?
- Volunteers share screen and search resources if time allows:
  - **Library Databases:** ERIC Educational Database, Education Full Text, Web of Science, Ebsco, WorldCat, JSTOR, PubMed, ProQuest Dissertations and Theses
  - **Industry Journals** where similar studies have occurred
  - **Lit Review:** look for charts/figures of any relevant frameworks/models used, review each peer-reviewed article’s reference list – then review those articles for frameworks/models and use and THEIR reference lists
  - **Google Scholar with notifications** on new articles in your topic area

# TAKE ACTION – WRITE A FEW GOAL STEPS YOU WILL TAKE & TIME TO COMPLETE





# HOW ARE YOU FEELING? DID WE MEET LEARNING OBJECTIVES?

By the end of this session, participants will be able to:

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- **Construct** (through brainstorming on own and/or with peers) a list of relevant topics or themes to explore post session
- **Assess & Select** potential frameworks for validity, application, and relevance



WHAT QUESTIONS DO YOU HAVE?







# REFERENCES/IMAGE ATTRIBUTIONS

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Sources for Images: Driftwood house: Creative Commons image, Moody beach, Maine Mansion: [www.lindseyarchitects.com](http://www.lindseyarchitects.com) Foundation: <https://www.doityourself.com/stry/6-most-important-foundation-construction-components> Framing: [www.madsenlanglois.com/victoria-blog/posts/the-bones-of-a-house](http://www.madsenlanglois.com/victoria-blog/posts/the-bones-of-a-house); Poor pilings & Beach house foundation: FEMA.gov Questions Slide: AndreyPopov/iStock/Getty Images Plus