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.
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

<table>
<thead>
<tr>
<th>Study Thread &amp; Adoption Timing</th>
<th>Subjects</th>
<th>Conceptual Framework: TPACK Area(s)</th>
<th>Carnegie Recommendation Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology:</strong> License Capture: 2006 - CBE: 2010-2012 - Virtual Micro: 2007</td>
<td>All 1st &amp; 2nd year instructors</td>
<td>Lecture Capture: TPK Exams: TPACK Virtual Microscopy: TPACK</td>
<td>Standardization and Individualization</td>
</tr>
<tr>
<td><strong>Pedagogy:</strong> Student-centered active learning environments: <em>ongoing adoption</em></td>
<td>All 1st &amp; 2nd year instructors</td>
<td>PCK with opportunities for TPACK when technology used in these environments</td>
<td>Habits of Inquire and Improvement</td>
</tr>
<tr>
<td><strong>Content:</strong> PrISM implementation: 2015 Based on DRx: 2006</td>
<td>PrISM &amp; Mod Directors (primary) DRx for historical comparison</td>
<td>TPACK: Technological Pedagogical Content Knowledge</td>
<td>Standard &amp; Indiv, Integration, Habits of Inquiry and improvement, &amp; Professional Formation</td>
</tr>
</tbody>
</table>
HOW DO THEY CHANGE? ON ADOPTION & CHANGE LEADERSHIP STYLES:

Rogers, 1962 & 2003

Trautlein, 2013

Rogers, 1962 & 2003
A FEW SAMPLE EXPLORATION RESULTS WITH LISTS FOR RESEARCH GENRES

▪ **Education Research:** Theoretical Framework as blueprint for your house!!!

▪ **Implementation Research:** A Review from University of Washington:
  https://impsciuw.org/implementation-science/research/frameworks/

▪ **Dissemination & Implementation Research:**
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?

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WHAT QUESTIONS DO YOU HAVE?
REFERENCES/IMAGE ATTRIBUTIONS


