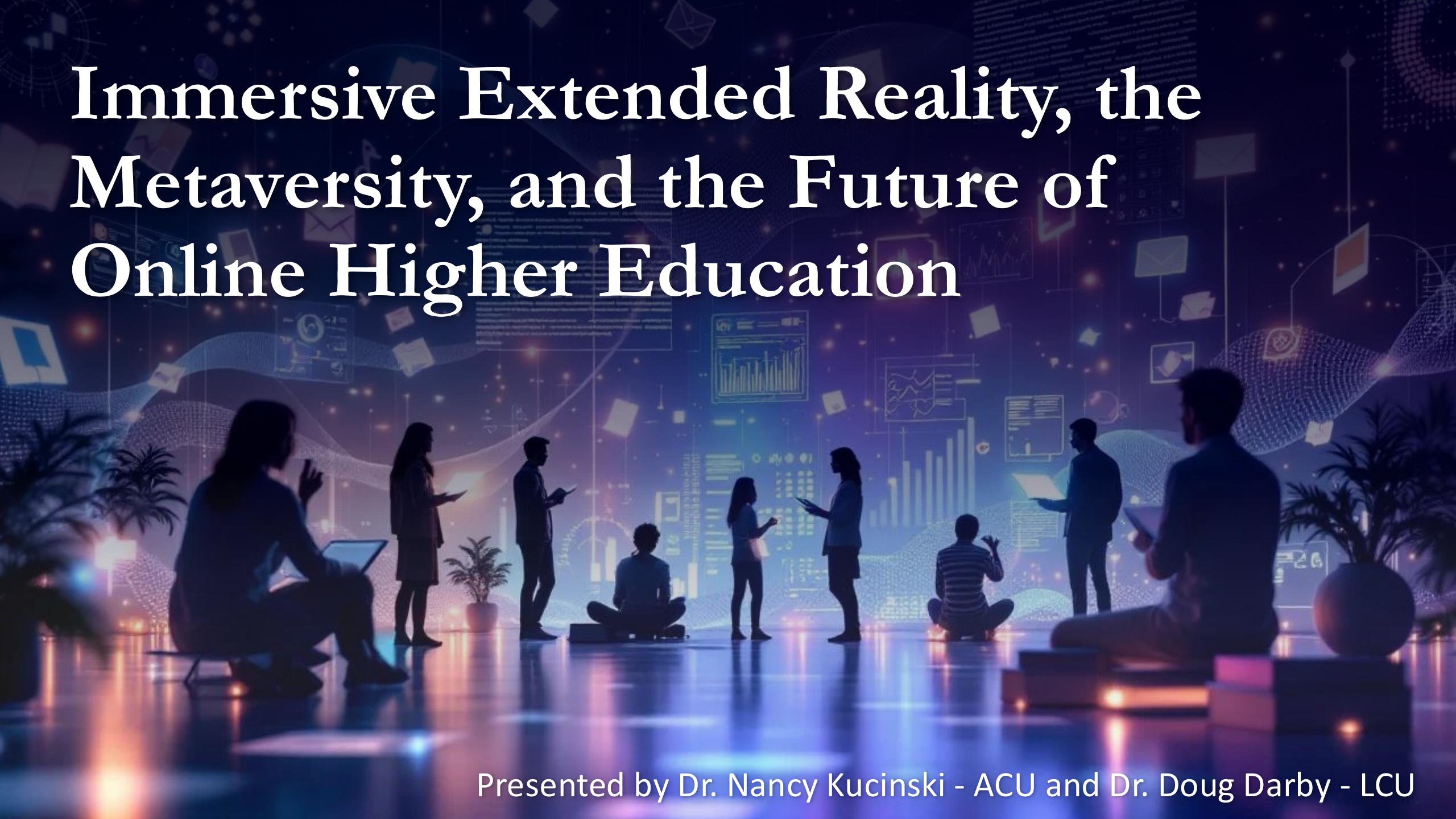


# Immersive Extended Reality, the Metaverse, and the Future of Online Higher Education



Presented by Dr. Nancy Kucinski - ACU and Dr. Doug Darby - LCU

# The Researcher Team



**Nancy E. Kucinski, Ph.D.**  
*Abilene Christian University*  
Professor, School of Professional Studies



**Brian G. Burton, Ed.D.**  
*Abilene Christian University*  
Associate Professor, School of  
Information Technology & Computing



**Doug Darby, Ph.D.**  
*Lubbock Christian University*  
Associate Professor, College of Business



**Scott Hamm, Ed.D.**  
*Abilene Christian University*  
Assistant Director, Adams Center for  
Teaching & Learning



**Rich Tanner, M.S.**  
*Abilene Christian University*  
Assistant Professor, School of  
Information Technology & Computing



**Chaz McKell**  
*Abilene Christian University*  
Research Assistant

# Overview of the Research Questions



Do students perceive a higher level of engagement when provided with an immersive learning environment?



What were the outcomes of a collaborative project between an online professor and the technology students?

# Study Background

- Origins of Virtual Learning Environments
- Metaverse Evolution & Educational Potential
- Metaversity Concept
- Technology Driving Immersion
- Rationale for the Study



# Literature and Pedagogical Support

- Online engagement and the Metaversity environment
- Deficit of studies on impacts of engagement in immersive environment
- The importance of synchronous online sessions with student learning



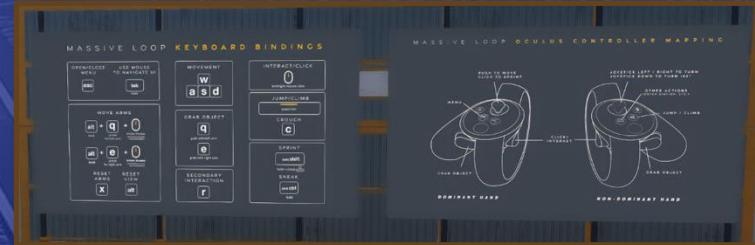
# The Winter Survival Exercise

- The purpose of the exercise is to demonstrate how a diverse team performs better on certain tasks than an individual.
- Passengers survive a plane crash in a winter environment.
- Individually and then as a team, participants must prioritize 12 items based on their importance for survival



# Creating the Environment

- Project Process and Timeframe.
- Use of Massive Loop and Unity Game Engine.
- Creation of 3D Models and Avatars.
- Onboarding and Immersive Experience Setup.
- Interactive Group Collaboration.
- Scenario Completion and Debrief.



# Creating the Environment



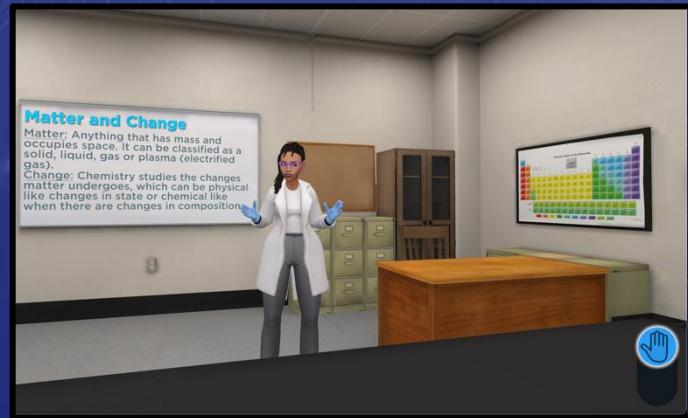
# Findings of Research Question 1

*Do students perceive a higher level of engagement when provided with an immersive learning environment?*

- From a very small sample size (18). 60% of students surveyed indicated that they "completely agree" with the statement, "I feel engaged with the course when I attend synchronous sessions."
- 66% indicated that they completely agree with the statement "Synchronous Sessions add value to the course."
- 100% "completely agree" or "agree" that they felt engaged with the Winter Survival exercise.

# The Metaversity

- What is the Metaversity?
- Why the Metaversity matters in education
- Key Features of the Metaversity
- The Role of Faculty and Students
- Setting the Stage for Faculty Involvement



# Findings of Research Question 2

*What were the outcomes of a collaborative project between an online professor and the technology students?*

- Interdisciplinary engagement between an Online Management professor, Digital Entertainment Technology Professor, and technology students.
- Management professor acted as the technology student's client.
- Digital Entertainment Technology professor began to implement learning outcomes related to project management.
- Inclusion of online tools (e.g., Discord and Trello) fostered enhanced interactions and engagement.

# Future Research Direction

- Continued refinement of the Metaversity Concept
- Improving Student Engagement in Immersive Environments
- AI and Personalized Learning in Immersive Environments
- Long-Term Impact on Higher Education
- Next Steps: Scaling and Expanding the Study



# Comments & Questions



**Nancy E. Kucinski, Ph.D.**

*Abilene Christian University*

Professor, School of Professional Studies

[nrk21a@acu.edu](mailto:nrk21a@acu.edu)



**Doug Darby, Ph.D.**

*Lubbock Christian University*

Associate Professor, College of Business

[doug.darby@lcu.edu](mailto:doug.darby@lcu.edu)

