

#edspaces

# EDspaces

Designing the Future of Education  
Charlotte, NC | November 7-9, 2023

## Designing a Space to Drive Innovation

November 8, 9:30 to 10:30 AM



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How do educators prepare students to work in the innovative, dynamic, and evolving 21<sup>st</sup> century work environments when most of our classes are held in traditional front-facing classrooms designed for 20<sup>th</sup> century learning?

# Background Design & Build Research Key Outcomes

### Session Objectives

1. **Explain** the design process and features that were used in creating the entrepreneurial center.
2. **Understand** how this center supports an innovative mindset and learning for students.
3. **Apply** active learning and design thinking practices when teaching in modern classroom.
4. **Design** an entrepreneurial learning space that supports innovation and prepares students for a modern workplace.

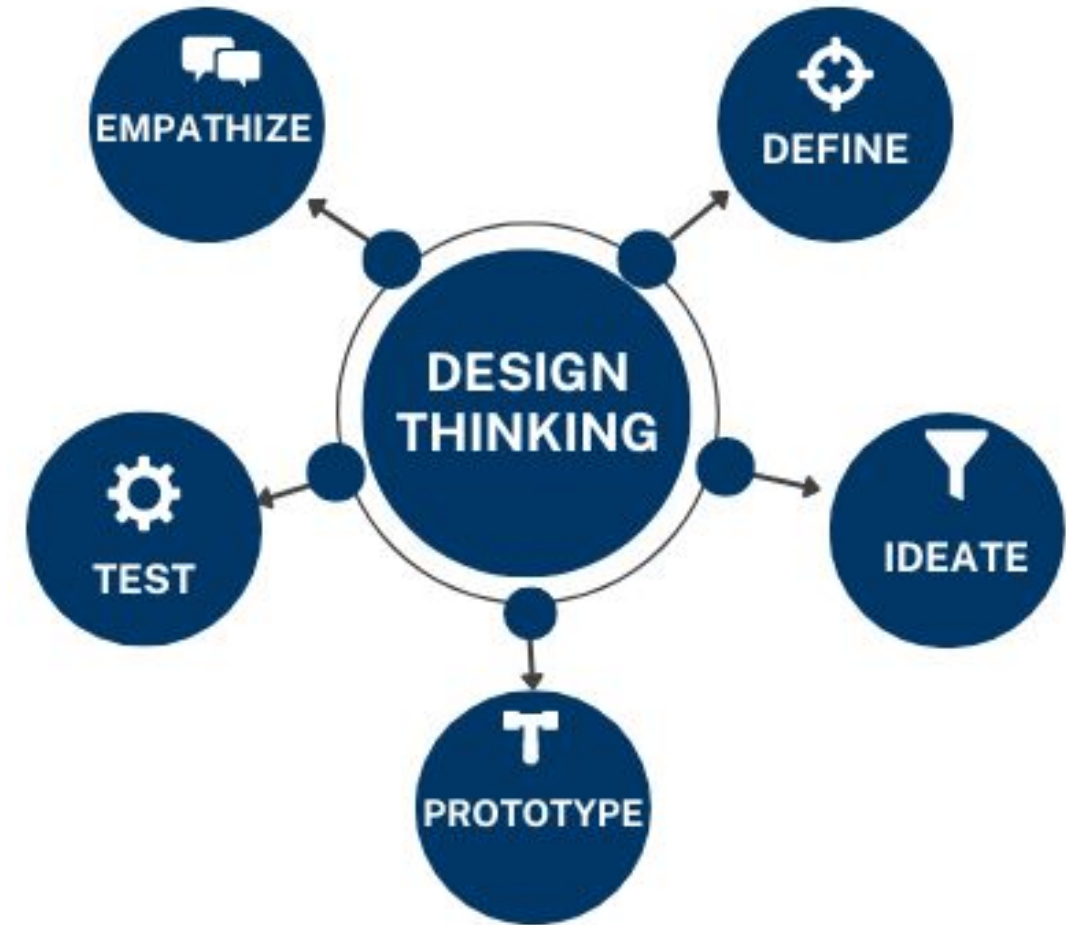


# Pedagogy & Learning Spaces

## Active Learning Space Design/Research

### Innovation Pedagogy

- Idea Generation, Prototyping, Feedback Loops
- i.e. Stanford's Design Thinking
- Increased Collaboration
- Employers are seeking these skills

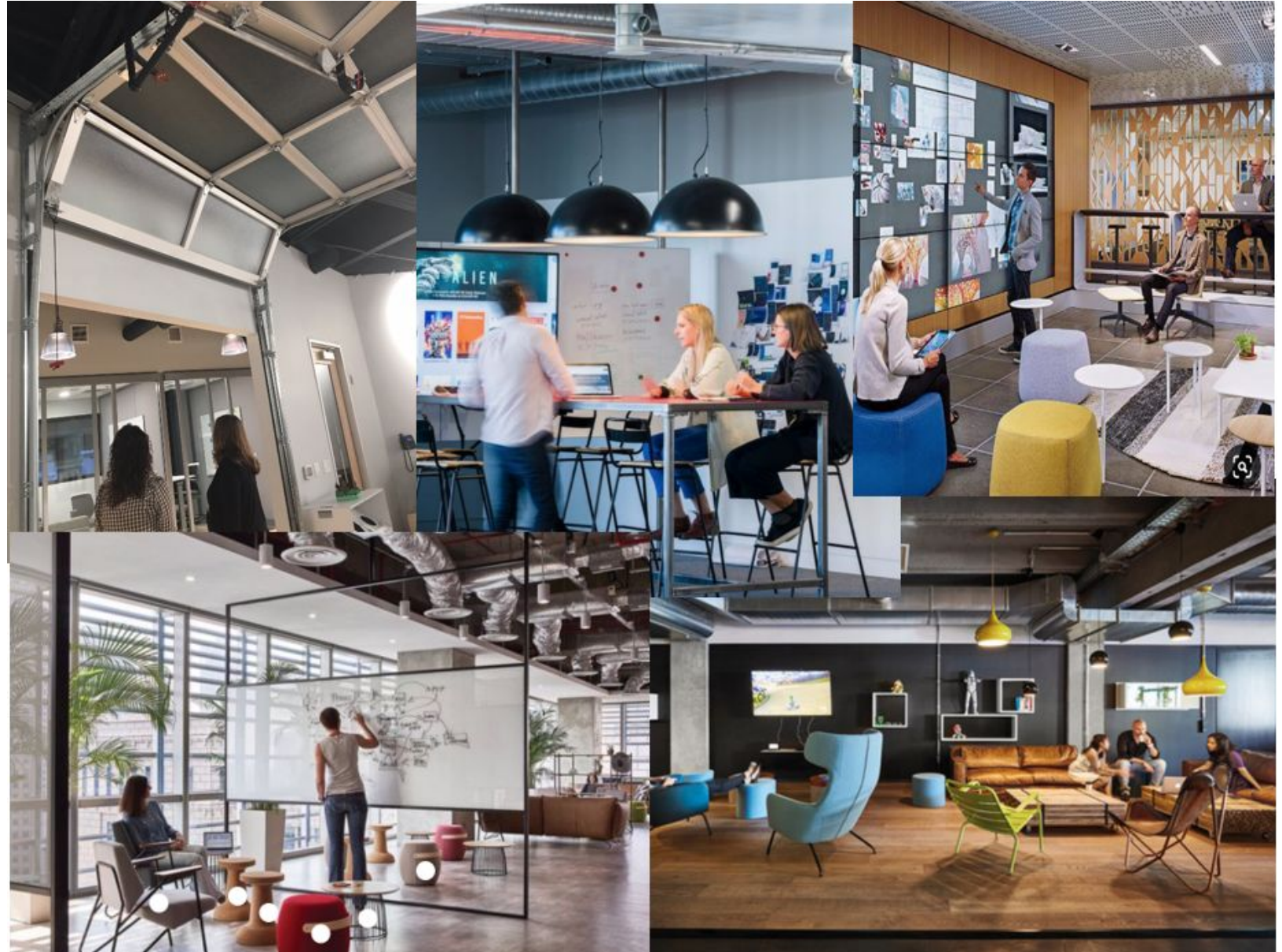


# Design | Designing & Building an Entrepreneurial Center

## Design

# Inspiration

- Modern Offices Spaces
- Collaboration Spaces
- Stanford's D School





## Design

# Inspiration

- Modern Offices Spaces
- Collaboration Spaces
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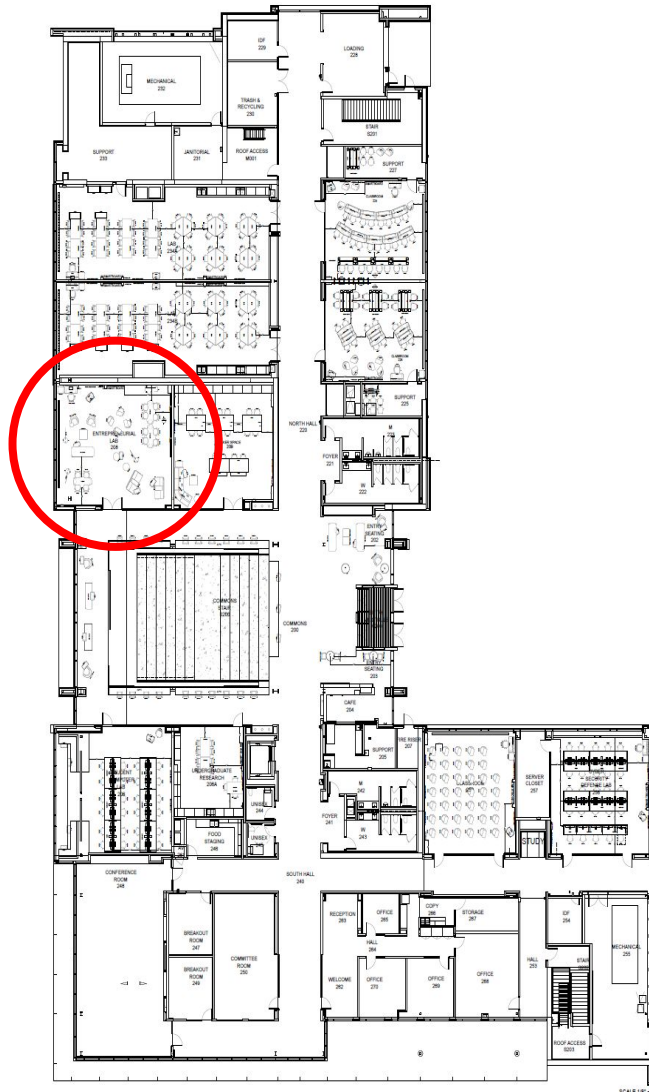
# CEET Building





# CEET Building





## Project Statistics

Project Size: 70,000 SF

4 Classrooms

8 Labs (Science, Computer)

1 Makerspace

3 Project Rooms

1 Team Room

Commons & Project Display

Entry Lobby

Architect: TVA Architects

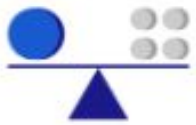
General Contractor: Adroit Construction



## CEET Entry



## Design Principles



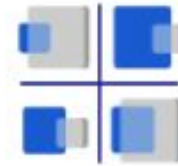
### Me + We

Equally support individual  
and team work



### Fixed to Fluid

Design for greater  
flexibility and mobility



### Open + Enclosed

More enclosed “me” and  
more open “we” spaces



### Braiding Digital + Physical

Enhance the human  
experience through technology



# Design



CARPET



MOBILE LOUNGE  
DESIGNTEX  
(GRADE 6)  
BILLIARD CLOTH  
NAVY



TABLE TOPS  
CLEAR OAK



NODE WIRE (GRADE 7)  
SOFA (GRADE 11)  
DESIGNTEX  
SILICONE ELEMENT  
NIGHTSPOT



FLEX WALL, CART  
+ STANDS  
MELE



OTTOMAN + LOUNGE  
CHAIR  
HBF TEXTILES (COM)  
AGAINST THE GRAIN  
LAUGH OUT LOUD



NODE TRIPOD SHELL  
LAGOON



NODE WIRE BASE  
HONEY



NODE WIRE SHELL  
MIDNIGHT (SOLAR BLACK)



TABLE + NODE TRIPOD  
BASES  
PLATINUM

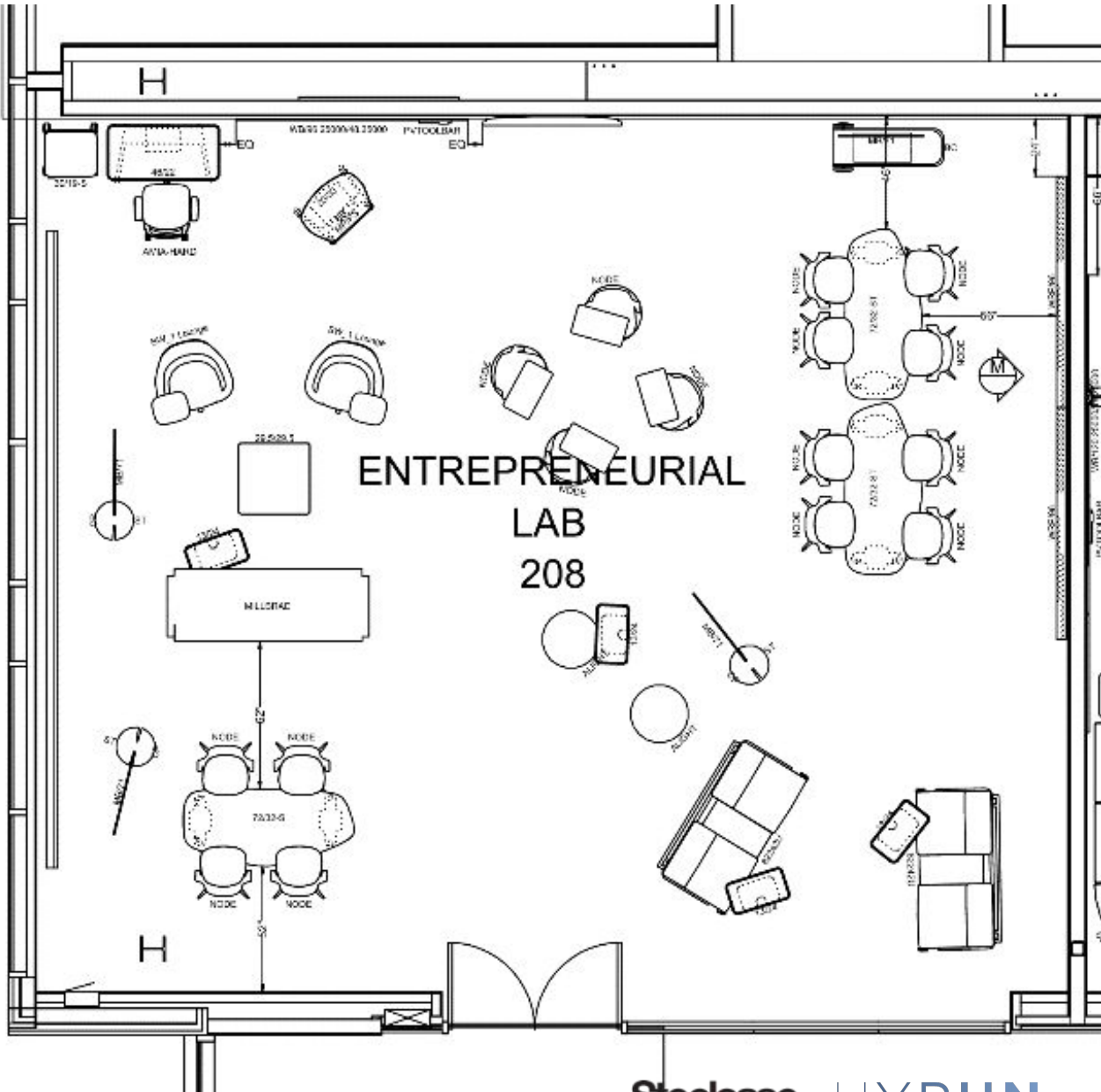


BASE  
LUSTER  
GREY

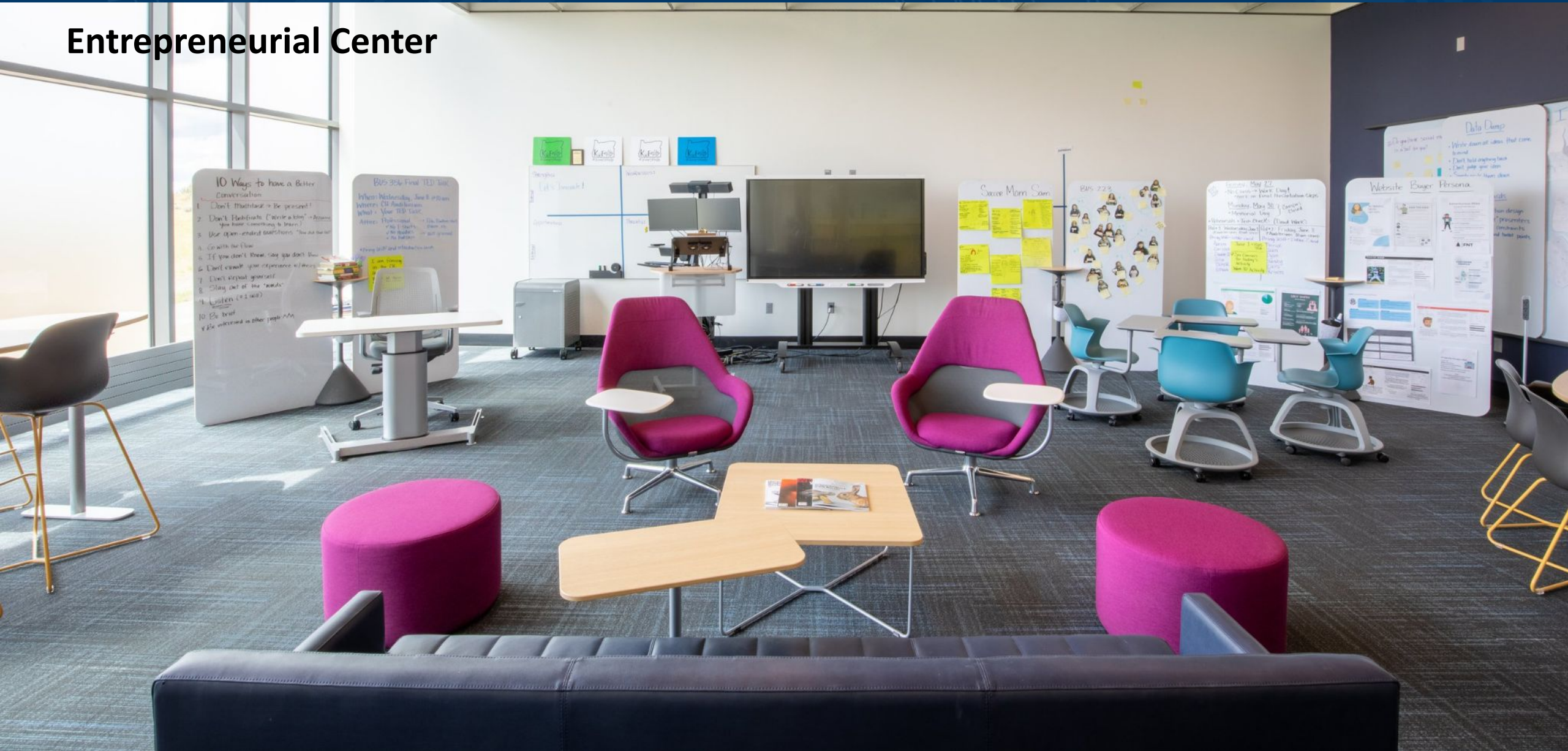


TABLE  
LINEN

MOBILE LOUNGE



# Entrepreneurial Center





# Entrepreneurial Center





# Entrepreneurial Center





# Entrepreneurial Center





# Entrepreneurial Center





# Entrepreneurial Center



# Innovation Exercise | Use our Space to Innovate



# Innovation Exercise

- Use space & gather in groups around whiteboards (4 groups)
- Brainstorm ideas together
  - No judgement
  - Build on team ideas “yes and..”
  - Be creative, weird, out of the box
- Volunteer: write ideas on WB



5 minutes

Potential Benefits/Uses

Selling Points

Target Consumer

# Share Out Best Bad Ideas

## Space Experience



# Research | Understanding How the Space Supports Innovation & Student Success

### Research Questions

- How do the classroom tools and features aid students in their learning?
- How does the classroom help to develop innovation skills?
- How does the classroom support student success (i.e. motivation and retention)?

### Research Methods

- Pre vs Post Survey
- Traditional vs Entrep Space Experience
- 22 Likert Questions & 2 text questions
- Fall 2022

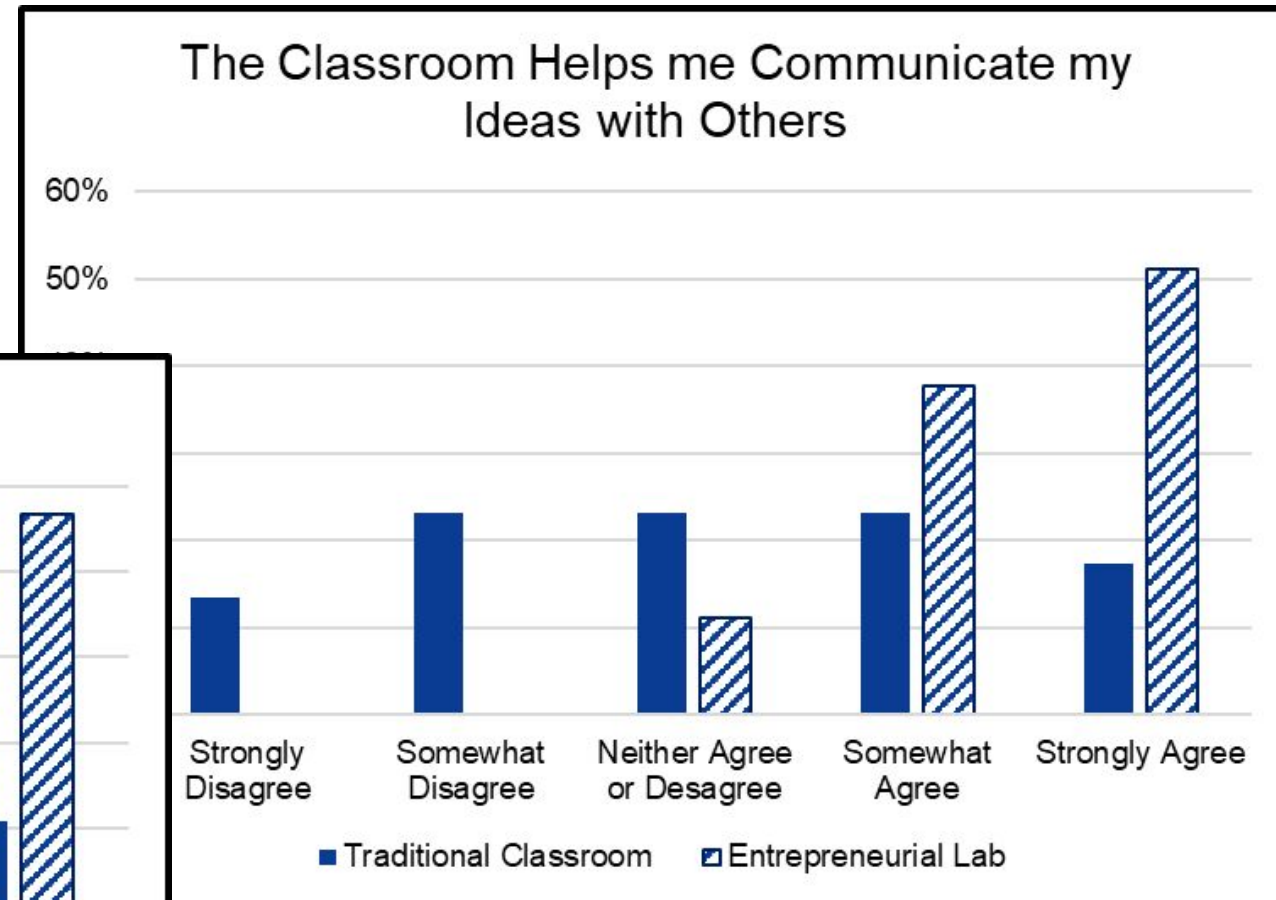
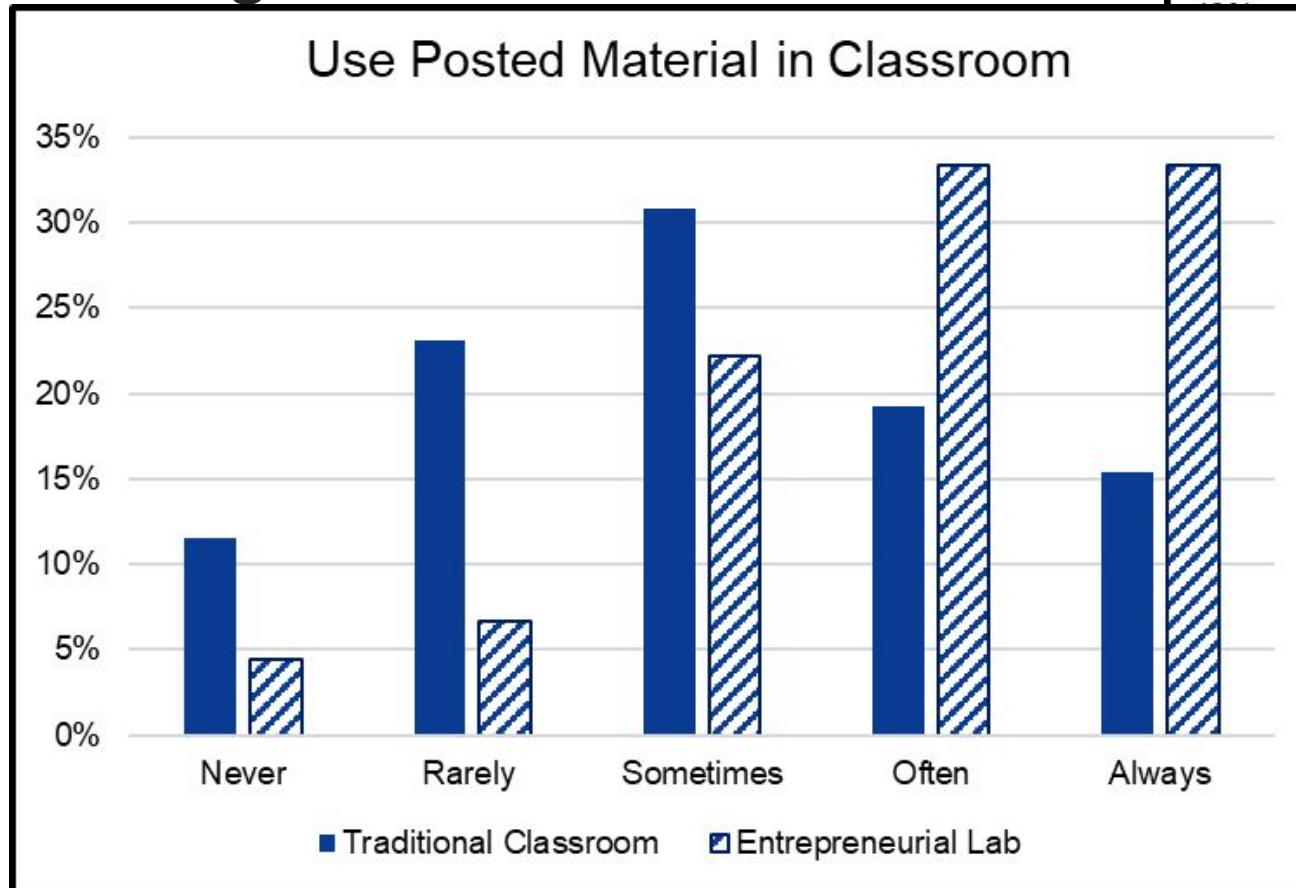
#### Demographics

- First-Year 26%
- Sophomore 7%
- Junior 46%
- Senior 14%
- Mix of Business, Technology, Communication & Engineering Majors



## Research

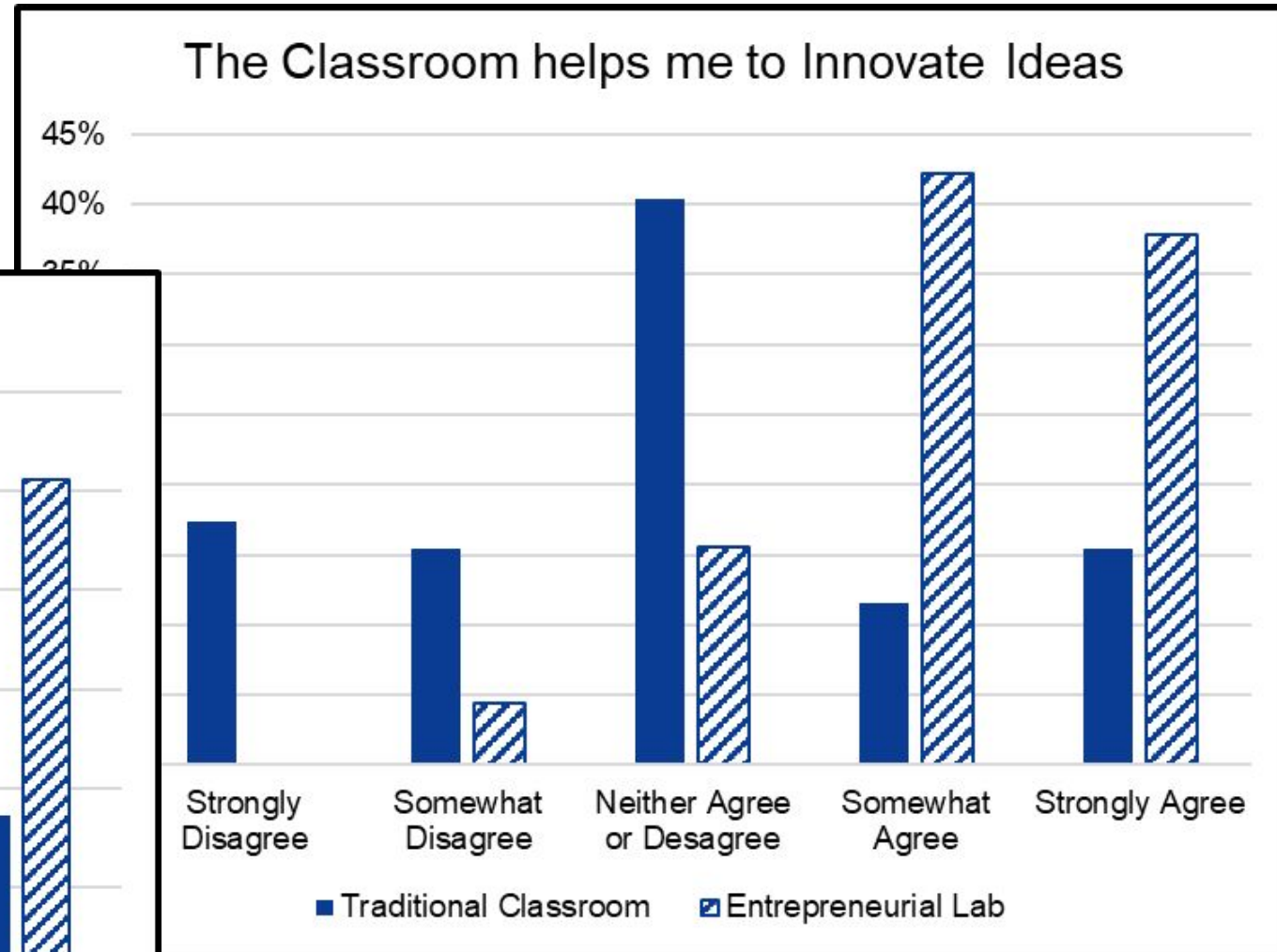
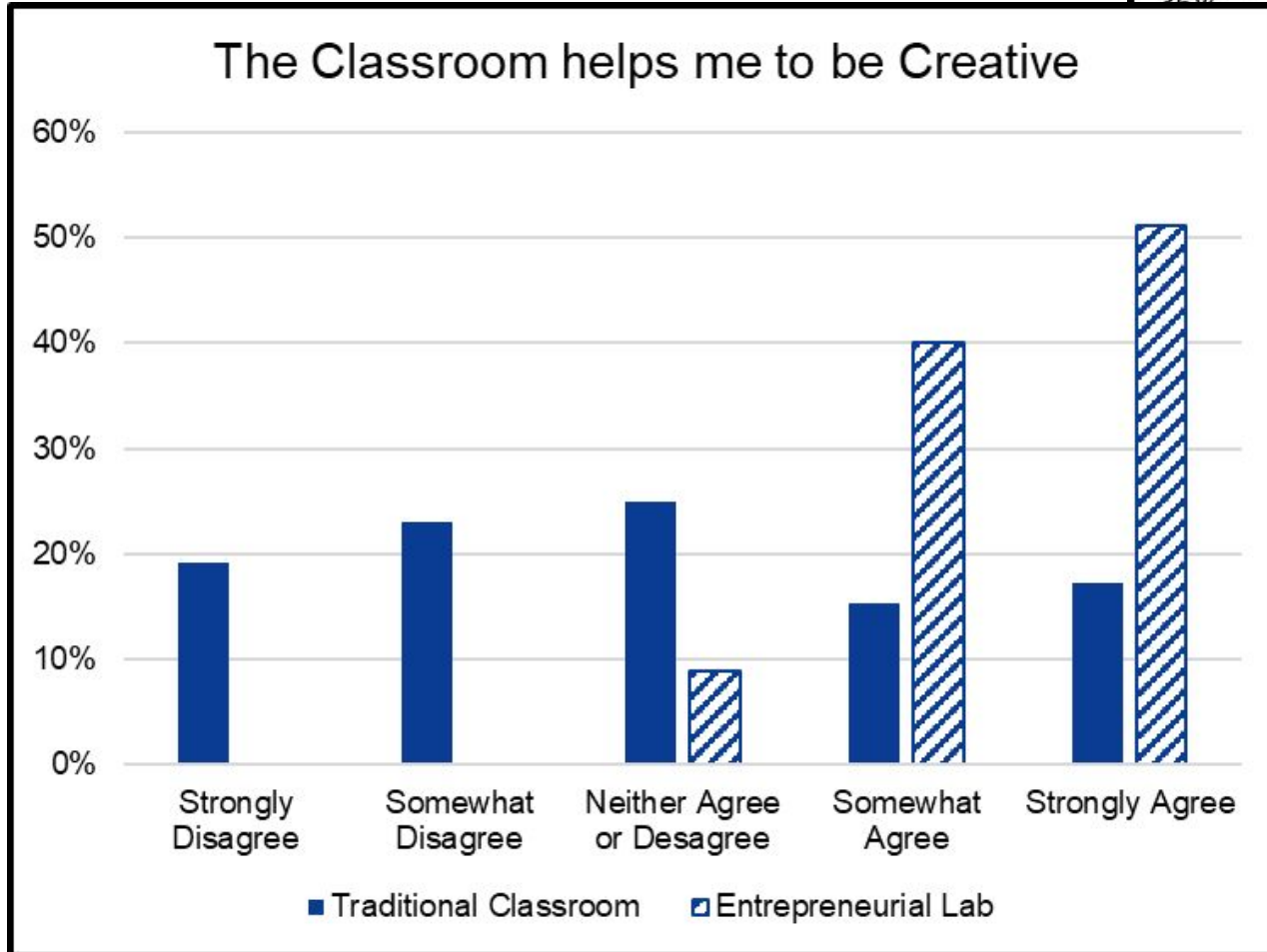
### How do the classroom tools and features aid students in their learning?



Increased use of writing surfaces to think through ideas.

## Research

### How does the classroom help to develop innovation skills?

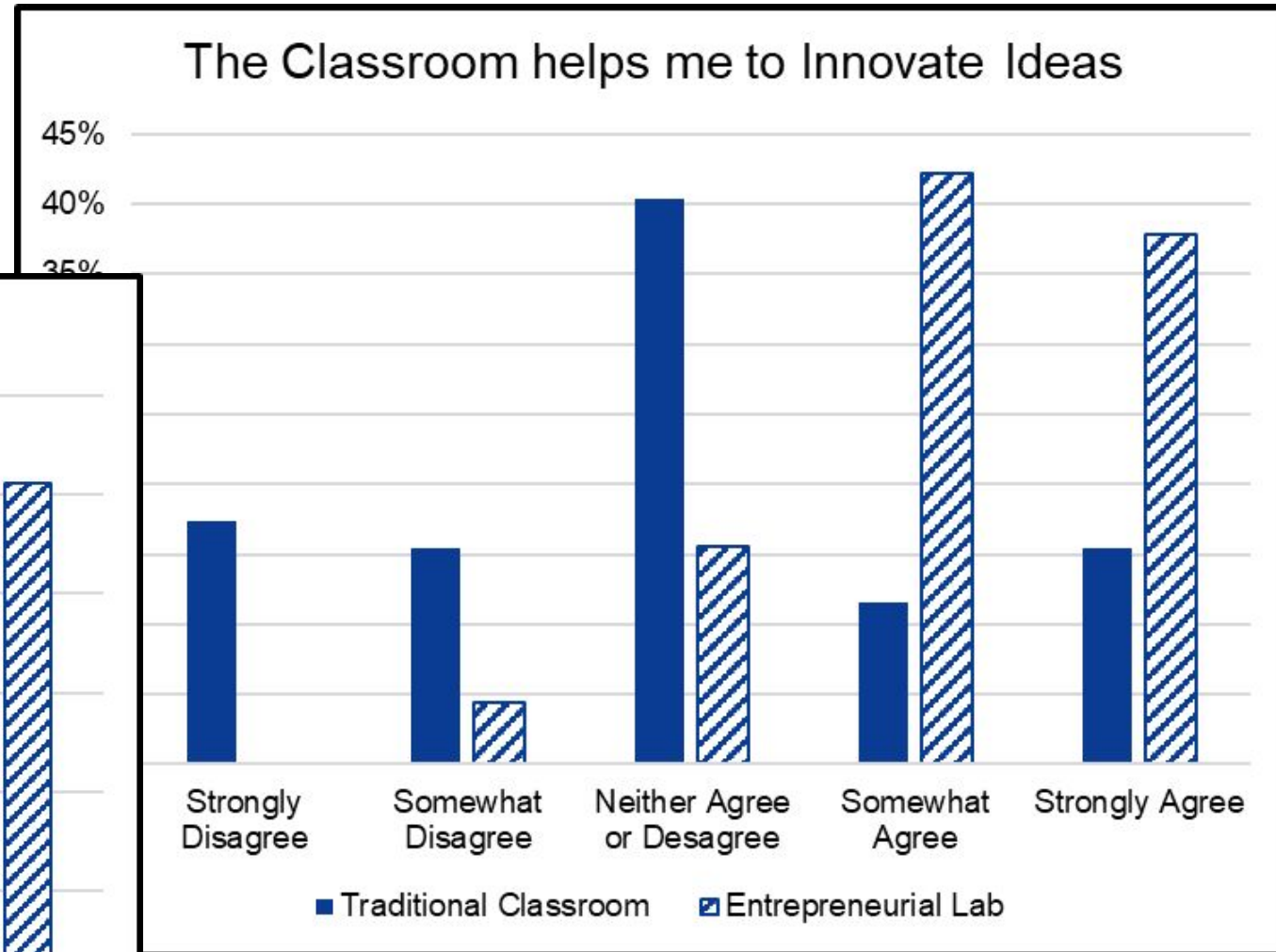
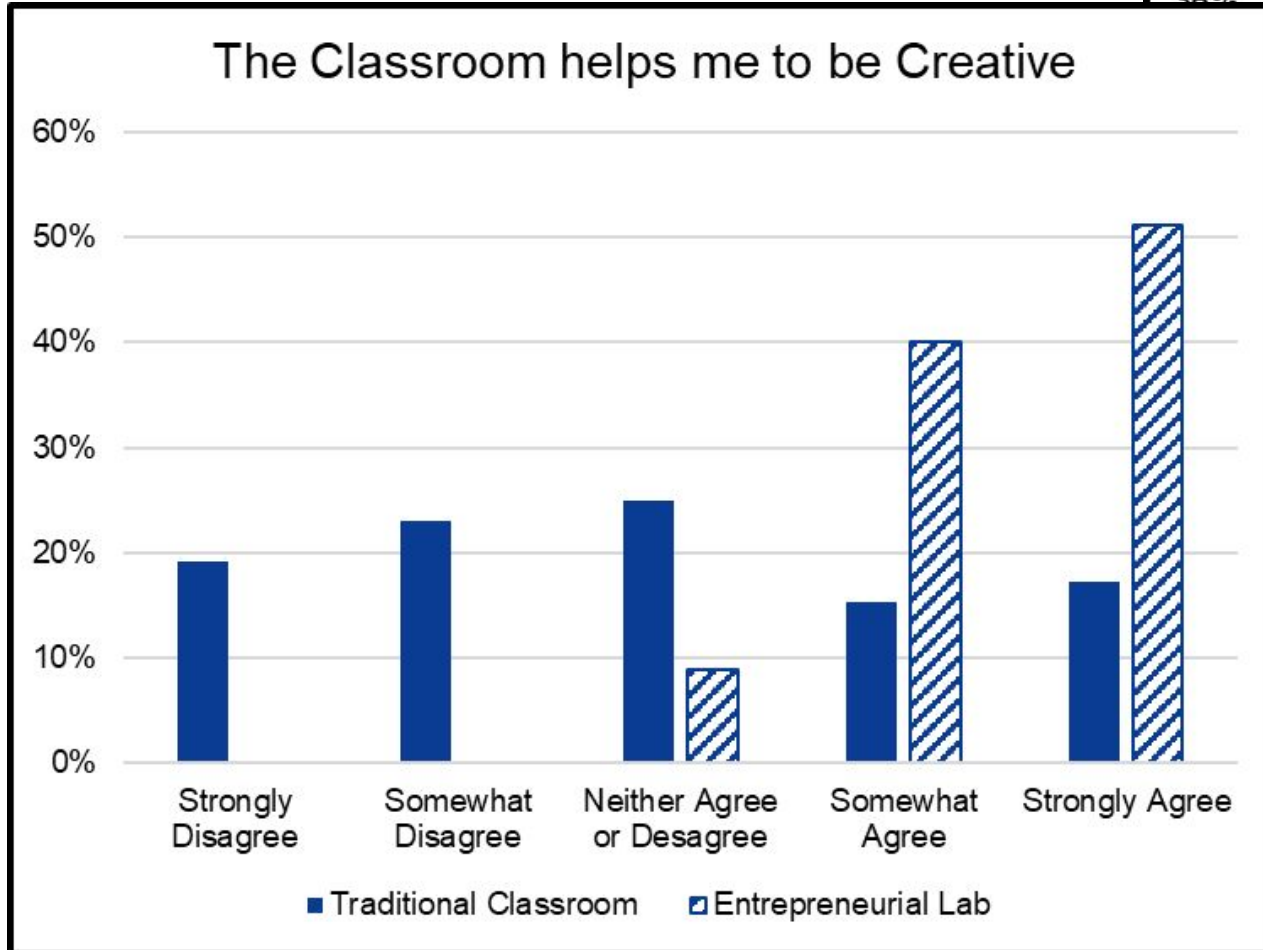


Increased risk-taking, collaboration, critical thinking



## Research

### How does the classroom support student success?



Increased level of motivation, making a friend, feeling confident to participate

## Impact of Space on Learning

Traditional Classroom Experience



Entrepreneurial Lab Experience





# Research

## Impact of Space on Creativity and Innovation

Traditional Classroom Experience



Entrepreneurial Lab Experience



## Instructors' Insights

### Embracing the Space

- No Time Needed to get used to Space
- Encouraged to try New Teaching Techniques

### Connections

- Natural Movement
- Immediate Student-to-Student Connections
- Easier Student-to-Faculty Connections

### Activities Observed

- Creativity & Iteration of Ideas
- Risk-Taking
- Managing Projects

**“The space is conducive  
for those who  
appreciate and  
celebrate the  
student-centric active  
learning environment.”**



## Key Discoveries | Research Outcomes

## Discoveries

# Key-Discoveries

### Re-Envisioning the Classroom

- Even active learning classrooms look like classrooms
- Learning can be enhanced in a non-traditional space

### Sense of Awe & Pro-Social Space

- Sense of being part of something greater than self

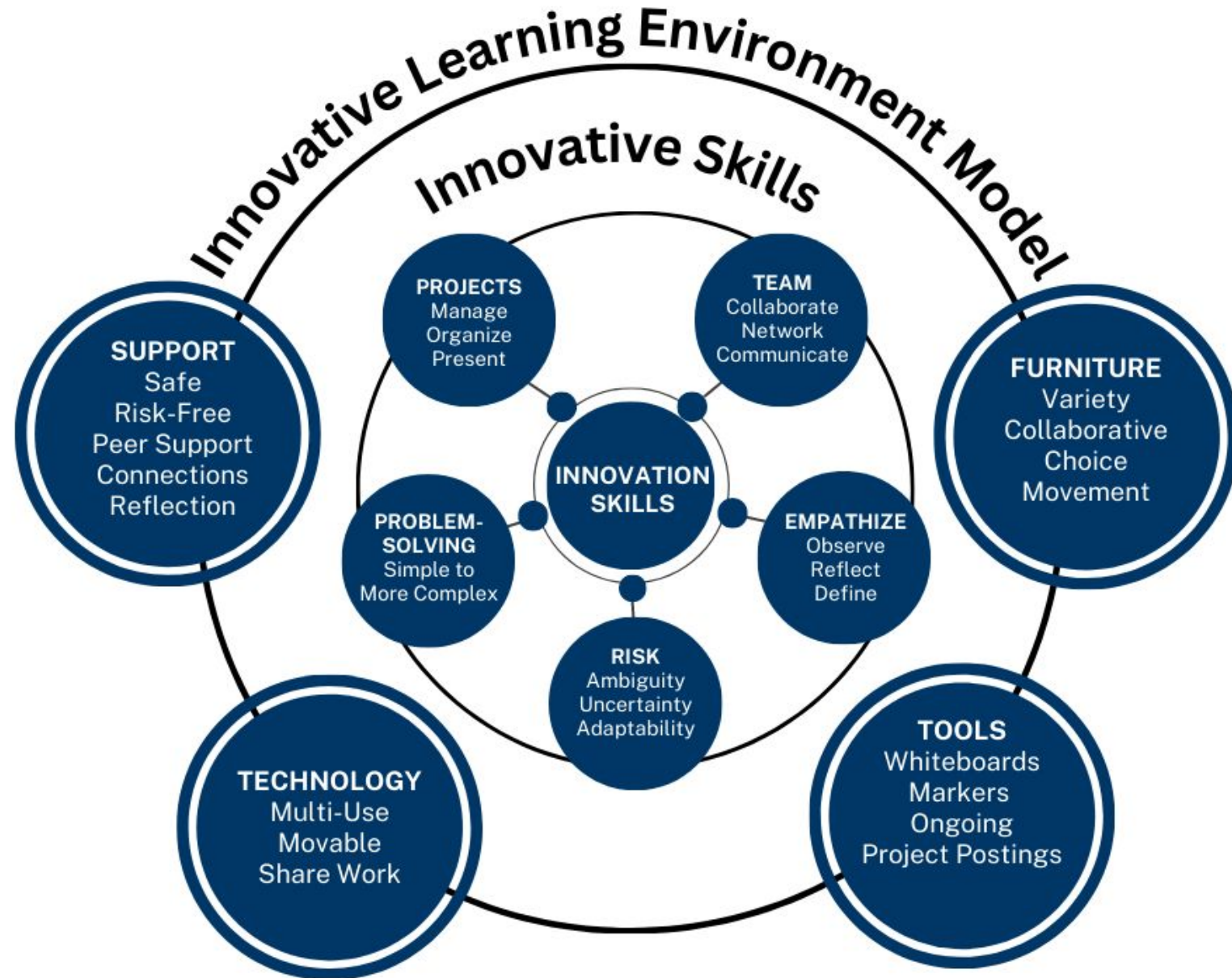
### Development of Innovation Skills

- Development of a framework to create a space to support innovation skill development





# Research



**Want More Info About  
The Research Study & CEET Project?**





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# Thank You!

Please scan the QR code to  
provide session feedback.



SCAN ME