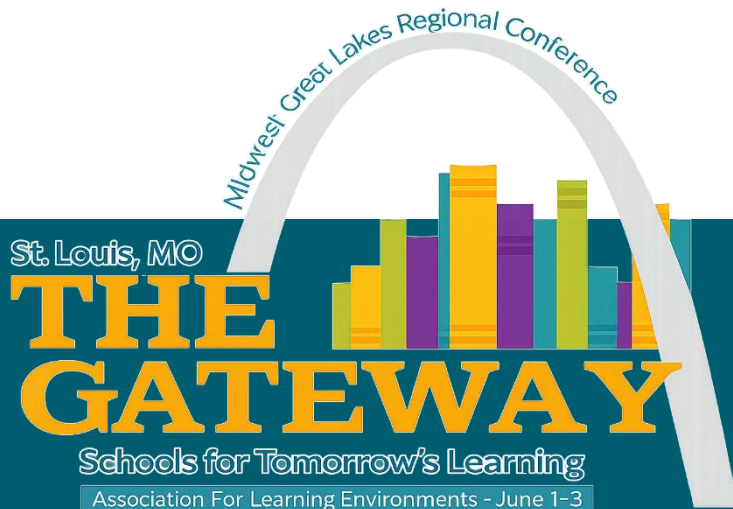


From Buildings to Belonging: When Students Author Space



A4LE MWGL 2026



Presenter



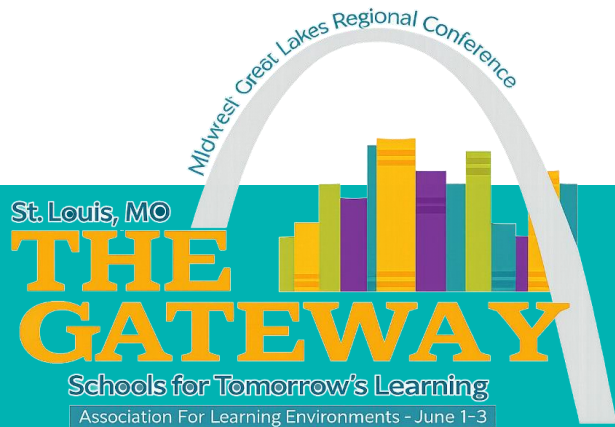
CHRISTINE KENNEDY,
AIA, NCARB, ALEP, LEED AP ID+C, CDT, CCS
Education Market Sector Specialist - WIGHTMAN
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Our Time Together

Introductions

1. DIG: Empathize + Connect WITH Students
2. DIG DEEPER: Step Outside Your Sandbox + Unearth Ideas WITH Students
3. T-A-L-K: Build Trust + Strategize WITH Students
4. WELCOME: Evoke Belonging + Design WITH Students



KRESA COURSES

COURSES AT CAREER CENTER

Agriculture, Food and Natural Resources

- 01.0903 Animal Health and Veterinary Sciences
- 01.0000 Agriculture, Agricultural Operations and Related Sciences

Architecture and Construction Trades

- 46.0000 Construction Trades
- 46.0301 Electrical and Power Transmission Installation
- 46.0503 Plumbing Technology
- 47.0201 Heating, Air Conditioning, Ventilation and Refrigeration

Energy

- 46.0303 Line Worker

Health Science

- 51.0000 Health Sciences/Allied Health/Health Sciences, General
- 51.1000 Clinical/Medical Laboratory Science/Research and Allied Professions
- 51.0707 Health Information/Medical Records Technology/Technician
- 26.0102 Biomedical Sciences, General

Hospitality and Tourism

- 12.0500 Cooking and Related Culinary Arts, General

COURSES AT SATELLITE LOCATIONS

Agriculture, Food and Natural Resources

- 03.0000 Natural Resources and Conservation

Human Services

- 12.0400 Cosmetology

Transportation, Distribution and Logistics

- 49.0101 Aeronautics/Aviation/Aerospace Science and Technology

Information Technology

- 11.0801 Digital/Multimedia and Information Resources Design
- 11.0201 Computer Programming/Programmer
- 11.0901 Computer Systems Networking and Telecommunications

Law, Public Safety and Protective Services

- 43.0100 Public Safety/Protective Services

Manufacturing and STEM

- 48.0501 Machine Tool Technology/Machinist
- 48.0508 Welding, Brazing, and Soldering
- 14.4201 Mechatronics

Transportation, Distribution and Logistics

- 47.0399 Heavy/Industrial Equipment Maintenance Technologies
- 47.0603 Collision Repair Technician (ASE Certified)
- 47.0604 Automobile Technician (ASE Certified)

New

- Supply Chain
- Design

COURSES AT LOCAL SCHOOL DISTRICTS

Business Management and Administration

- 52.0299 Business Administration Management and Operations

Education and Training

- 13.0000 Education General

Finance

- 52.0800 Finance and Financial Management Services

Marketing

- 52.1999 Specialized Merchandising, Sales, and Marketing Operations, Other



KALAMAZOO RESA

Career Connect





KRESA WORKSHOPS CASE STUDY OVERVIEW

The visioning workshops and design charrette engaged a cross-section of stakeholders in a collaborative process. The goal was to achieve consensus supporting a vision for the new Kalamazoo CTE Center. The result will be a career-based facility designed to meet the needs of the students in the 21st Century in an adaptable and flexible environment.



KALAMAZOO RESA

Career Connect



Agenda
October 6, 2021

A. Introduction

B. Workshop

1. Overview of the Workshop
2. Break into Focus Groups at Six Tables
3. Video - CTE Trends
4. CTE Trends
5. Large Group Feedback
6. Large Group Presentation

Break

7. Exemplary Facility Presentations, Photo Sort
8. Large Group Discussion

WORKING LUNCH BREAK

9. Kalamazoo CTE Center- Define the Challenge Statement
10. Synthesize Goals by table

Break

11. Insights of Full Group
12. Preview Workshop Session Day #2

C. Adjournment

VISIONING WORKSHOP ONE

October 6, 2021

- Empathy - What is unique and significant about CTE at KRESA?
- Dig Deeper – Go for stories
- Empathy for Students - Map the activities of a student's typical day
- Capture Findings - What works well in the facility? What does not work well?
- Capture Insights - What kind of facility will KRESA need in the future?
- Define the Challenge Statement - What must we do for the project to be successful?
- Ideate - Sketch/Write Ideas

Agenda
October 7, 2021

A. Introduction

B. Workshop

1. Review of the Workshop Day 1
2. Alignment Analysis of "Designing a World-Class Career & Technical Education (CTE) System: A Report to the Community," May 2019
3. Alignment Analysis of "Designing a World-Class Career & Technical Education (CTE) System: A Report to the Community," May 2021
4. Important Design Topics

Break

5. Building Program Review
6. Small-group Feedback on Building Program
7. Building Program Review
8. Small-group Feedback
9. Building Program Review
10. Small-group Feedback
11. Large-group Discussion

Working Lunch Break

12. Sandbox Exercise Pathway Diagrams
13. Synthesize Findings by table and Report Out
14. Building Diagram Sandbox Exercise in Small Groups
15. Synthesize Findings by table and Report Out

Break

16. Conceptual Design Fly-Through Examples
17. Insights of Full Group
18. Closing Remarks; Preview Workshop Session

C. Adjournment

Adjacencies, what do you see when you enter? Core Goal Alignment - Barriers, Trends, Future-Proofing Ideas, I like/I Wonder Exercise

VISIONING WORKSHOP TWO

October 7, 2021

Agenda
October 27, 2021

A. Introduction

B. Workshop

1. Overview of the Workshop
2. Review Workshop No. 1 Findings
 - a. Insights, Core Goals, Draft Program
3. Big Ideas Exercise
 - a. Architecture in Kalamazoo, Photo Sort

Break

4. Program Review – Adjacencies Exercise

Working Lunch Break

5. Large Group Discussion
 - a. Report Back Findings from Each Table
6. Site Introduction
7. Site Analysis in Small Groups
 - a. Sketch at Each Table – Introduce Program Blocks on Site

Break

8. Large Group Discussion – Synthesize Findings
9. Preview of Day Four Design Charrette

C. Adjournment

VISIONING WORKSHOP THREE

October 27, 2021

Agenda
October 28, 2021

A. Introduction

B. Workshop

1. Overview of the Workshop
2. Review Workshop Day 3 Findings
 - a. Design Schemes and Site Plans
3. Concept Development
 - a. Share Five Defining Questions
 - b. Define Potential Solutions to Explore in Small Groups
 - c. Report out to Large Group

Break

4. Design Charrette in Small Groups
 - a. Report out to Large Group
5. Participants Choose Preferred Concepts

Working Lunch Break

6. Identify Preferred Concepts
7. Synthesize – Define Master Concept
 - a. Large Group Activity
 - b. I Like/ I Wonder
8. Summary of Activities
9. Next Steps for Conceptual Design Development and Approval

C. Adjournment

VISIONING WORKSHOP FOUR

October 28, 2021

Workshop Participants

Rostam Ahmad Daud, Loy Norrix
Eric Alburtus, Portage Public Schools
David Allan, Stryker
Shawn Andrews, Duncan Aviation
Lisa Bartell, KRESA
Matt Basse, Comstock
Robert Becker, Portage Northern
Rex Bell, Miller Davis
Mark Bielang, Portage Public Schools
Jill Bland, Southwest Michigan First
Ken Briggs, Kalamazoo Central
Cameron Buck, KRESA
Dave Campbell, KRESA
Issac Carter, CTE Center
Brent Cole, Climax-Scotts
Matt Dailey, Schoolcraft
Paige Daniels, KRESA
Wendy Maynard-Somers, Galesburg-Augusta
Todd McDonald, CSM
Mindy Miller, KRESA
Tracy Miller, Kalamazoo Public Schools
Sarah Newman, Parchment
Doug Newington, Climax-Scotts
Jeni Opel, KRESA
Doug Phillips, Plante Moran Cresa
Dr. Rita Raichoudhuri, Kalamazoo Public Schools
Raphael Rittenhouse, Gull Lake
Rob Rohlman, CSM Group

Matt Davis, Wightman
James Devers, Communities in Schools
Paige Egan, KVCC
Sid Ellis, Douglas Community Assoc.
Jack Endres, Mann-Hummel
Diane Fort, KRESA
Rick Frens, Schoolcraft
Cindy Goss, KRESA
Kathy Hurley, KRESA
Jen Hsu-Bishop, KRESA
Travis Grimsley, Duncan Aviation
Josh Iocca, Flowserve
Laura Kuzmick, Parchment
Jason Luke, KRESA
Sarah Mansberger, KRESA
Dave Maurer, Humphrey
Irene Mayfield, KRESA
Rikki Saunders, Kalamazoo Public Schools
Brian Schupabach, KRESA
Eric Stewart, KRESA
Amanda Sutherland, KRESA
Dr Jeffrey Thoenes, Comstock
Bob Wallis, 61 Keys Consulting
Von Washington, Kalamazoo Promise
Kara Wood, WMU
Tom Zahrt, KRESA
Dr Tricia Zelaya-Leon, Kalamazoo College
Bryan Zoher, KRESA

Student Participants

Zoe Whelham, Portage Central
Cameron Dick, Portage Central
Blake Sutherland, Vicksburg
Kyle Mierzewski, Climax-Scotts
Robert Becker, Portage Northern
Faye Scott-Farnsworth, Portage Northern
Mackenzie Ford, Gull Lake

Bryce Soisson, Kalamazoo Central
Jacob Rooney, Comstock
Mason Meach, Comstock
Gabrielle Novak, Parchment
Abby Naugle, Portage Central
Cooper Gheen, Kalamazoo Central



4-DAY DESIGN WORKSHOP – PARTICIPANTS

student co-authorship

influencing educational vision

+ design intent

+ architectural decision-making

for a World-Class CTE Facility

for a World-Class CTE Program



DIG

Empathize + Connect WITH Students



ACTIVITY #1

Picture This... Or Don't





“my mind's eye is blind”

Hyperphantasia

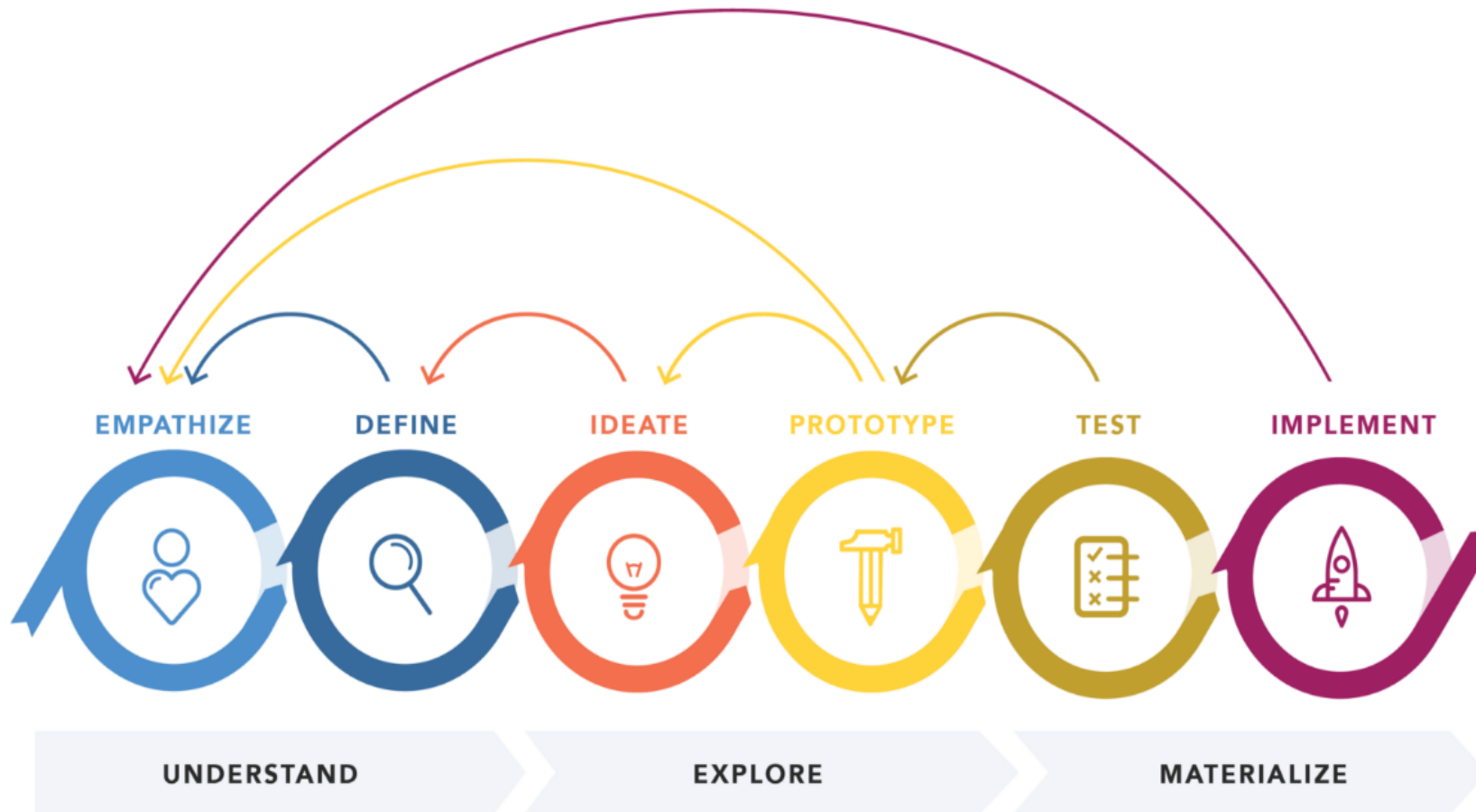


Aphantasia



“...looking deep...drives his drawing...”

DESIGN THINKING



ACTIVITY #2

Start with Empathy



Your mission: Create a **Vision** for CTE at KRESA ... for your **partner**

First Interview - 12 min (2 sessions x 6 minutes each.)

What are the intended OUTCOMES for the new CTE environment in your school?

EDUCATION

What are the intended EDUCATIONAL OUTCOMES ?

How will the CTE Facility be used educationally?

CULTURE & BEHAVIOR

What are the intended CULTURAL OUTCOMES?

How will the CTE Facility be used socially?

For
Students
(3 minutes)

For
Teachers
& Staff
(3 minutes)

1. Start with **Empathy**

A day in the **life**... of a typical CTE KRESA Student.

Third Interview - 6 min (2 sessions x 3 minutes each.)

Map the activities of a student's typical day. Tell us about the places he/she will go, the things he/she will do, the people he/she will meet.

BEFORE School?

DURING School?

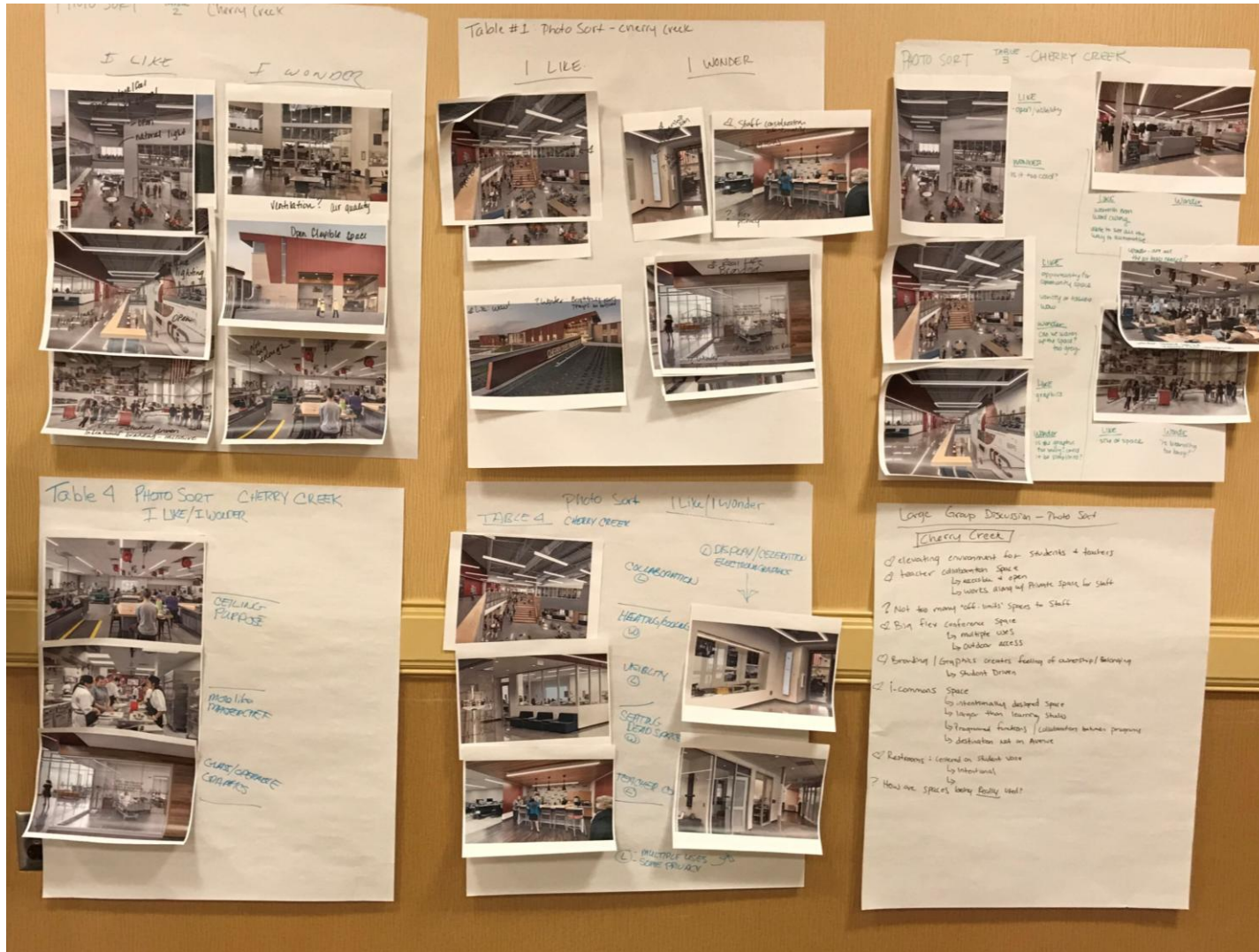
AFTER School?



DIG DEEPER

Step Outside Your Sandbox + Unearth Ideas WITH Students

Photo Sort - Cherry Creek – Top Images



ACTIVITY #3

Step Outside Your Sandbox



Your mission: Create a **Vision** for CTE at KRESA ... for your **partner**

Second Interview - 12 min (2 sessions x 6 minutes each.)

What are the intended OUTCOMES for the new CTE environment in your school?

EDUCATION

What are the intended EDUCATIONAL OUTCOMES ?
How will the CTE Facility be used educationally?

CULTURE & BEHAVIOR

What are the intended CULTURAL OUTCOMES?
How will the CTE Facility be used socially?

For
Students
(3 minutes)

For
Teachers
& Staff
(3 minutes)

Spaces that Inspire

Fourth Interview - 6 min (2 sessions x 3 minutes each.)

Map the activities of effective learning spaces. What things should change about your existing school facility?

What is your favorite place to learn?
These are the characteristics of effective learning spaces...

(activities, people, physical characteristics, etc.)

To make the proposed CTE Facility more like my favorite educational places, I wish it had...

(activities, people, physical characteristics, etc.)

4. Capture Findings

Spaces that Inspire

Fifth Interview - 6 min (2 sessions x 3 minutes each.)

Map the activities which are limited by the existing CTE spaces available. What needs to change in the new spaces?

What are things you would like to do educationally that are difficult or impossible due to the existing space available CTE?

(activities, people, physical characteristics, etc.)

What would need to change in the new space to allow you to do things educationally which you were prevented from doing in the old CTE Facility?

(activities, people, physical characteristics, etc.)

Spaces that Inspire

Define the problem statement - 5 minutes

What does your partner define as being the biggest areas of need for the proposed CTE Facility at KRESA?

The CTE Facility for Kalamazoo RESA

needs a way to ... _____

needs a way to ... _____

needs a way to ... _____

Surprisingly // because // but... (circle one)

(insights)

Ideate: generate alternatives to test.

Write your problem statement: _____

Sketch or describe at least 5 core experiences that exemplify the mission for the CTE Facility for KRESA as defined by your partner.

7. Sketch **Ideas** - 5 minutes – Core CTE Experiences

8. Group Share & Capture - 16 min

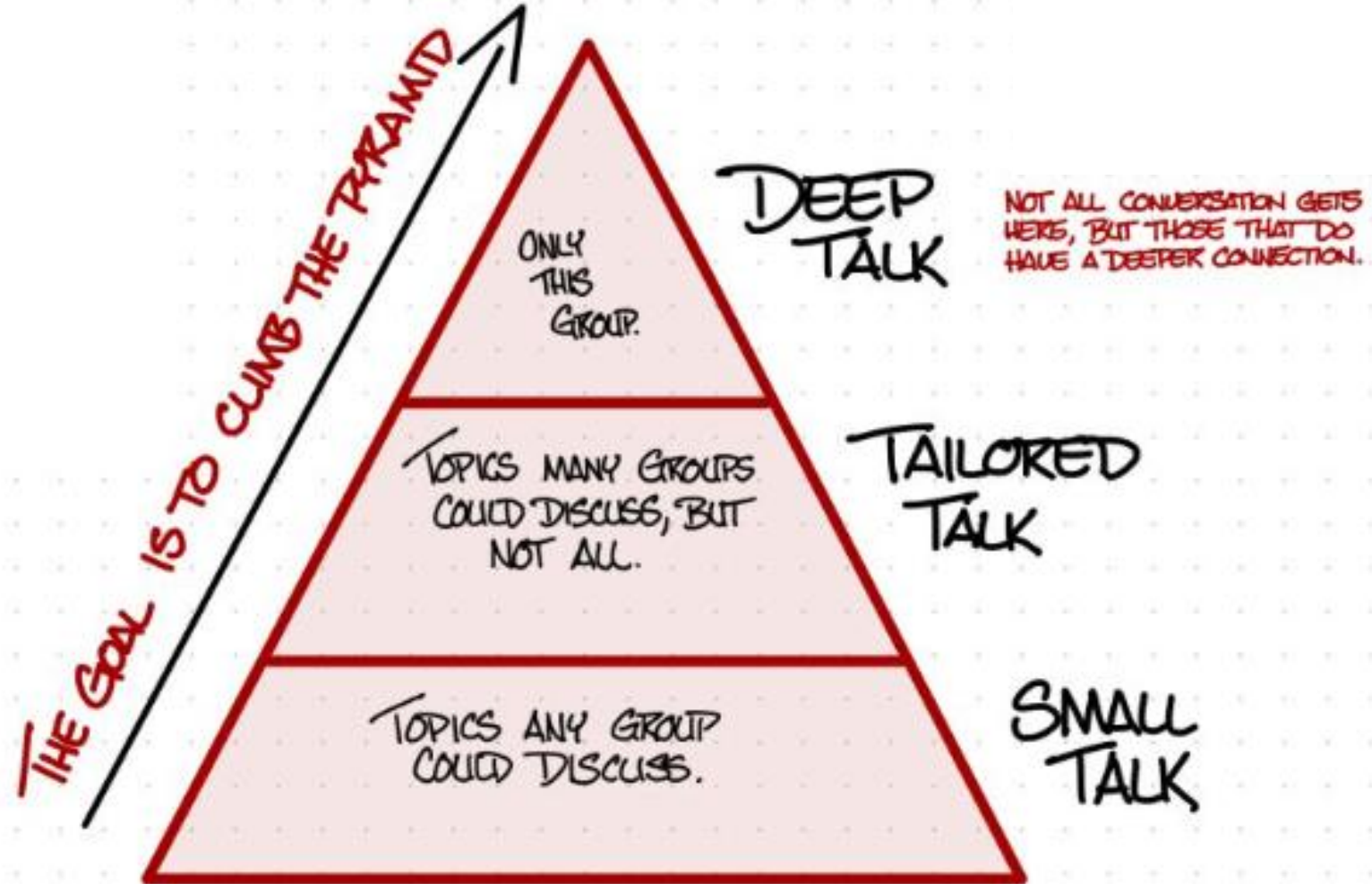
Notes – On the flip charts at your table, capture your groups' top core experiences and define how your students will experience the new CTE Facility at KRESA.

T-A-L-K

Build Trust + Strategize WITH Students



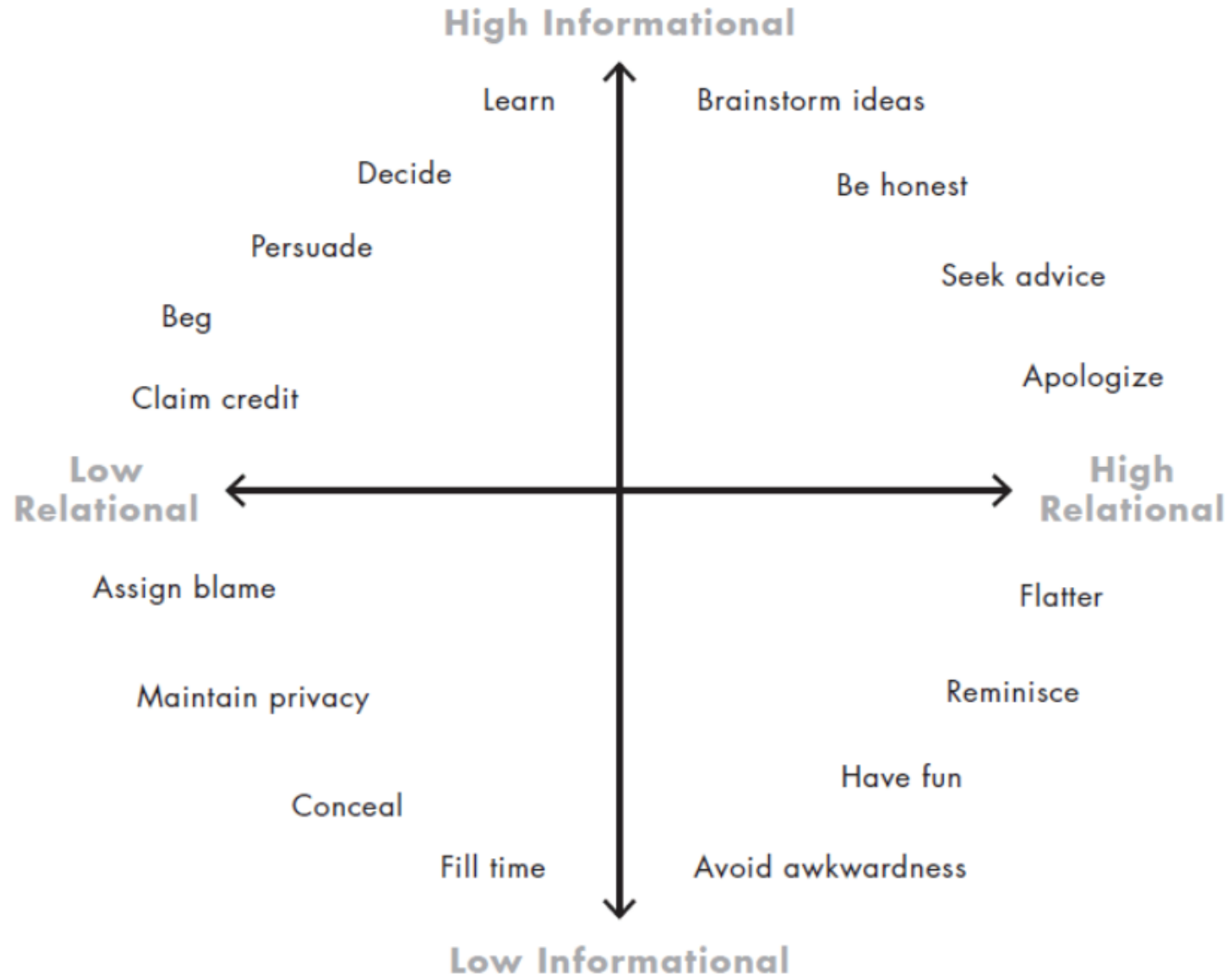
THE TOPIC PYRAMID



T-A-L-K

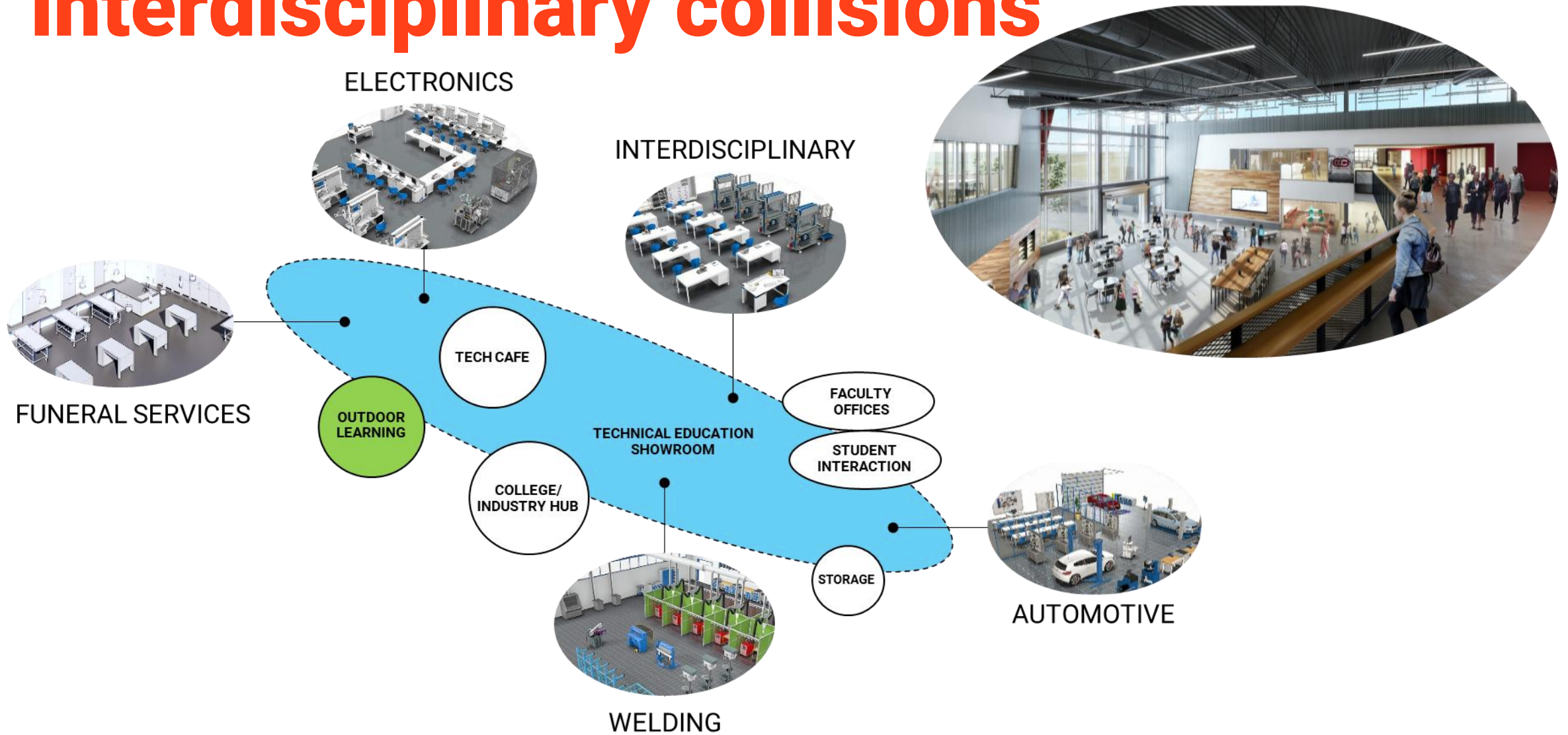


T-A-L-K



The conversational compass: Organizing our conversational purposes

interdisciplinary collisions



interdisciplinary collisions



“...a goat was in our lobby...”

ACTIVITY #4

T-A-L-K to Build Trust to Strategize



Iterate based on feedback.

Reflect & generate a new solution. 10 min

NAME OF SPACE OR PROGRAM

Sketch at least ONE RADICAL way to TRANSFORM education at the KRESA CTE Facility as defined by your group.

Sketch your big idea. Note details if necessary!

9. Iterate a new solution

Share and Test

10. Share your **Solution**

Present a drawing of Your Big IDEA

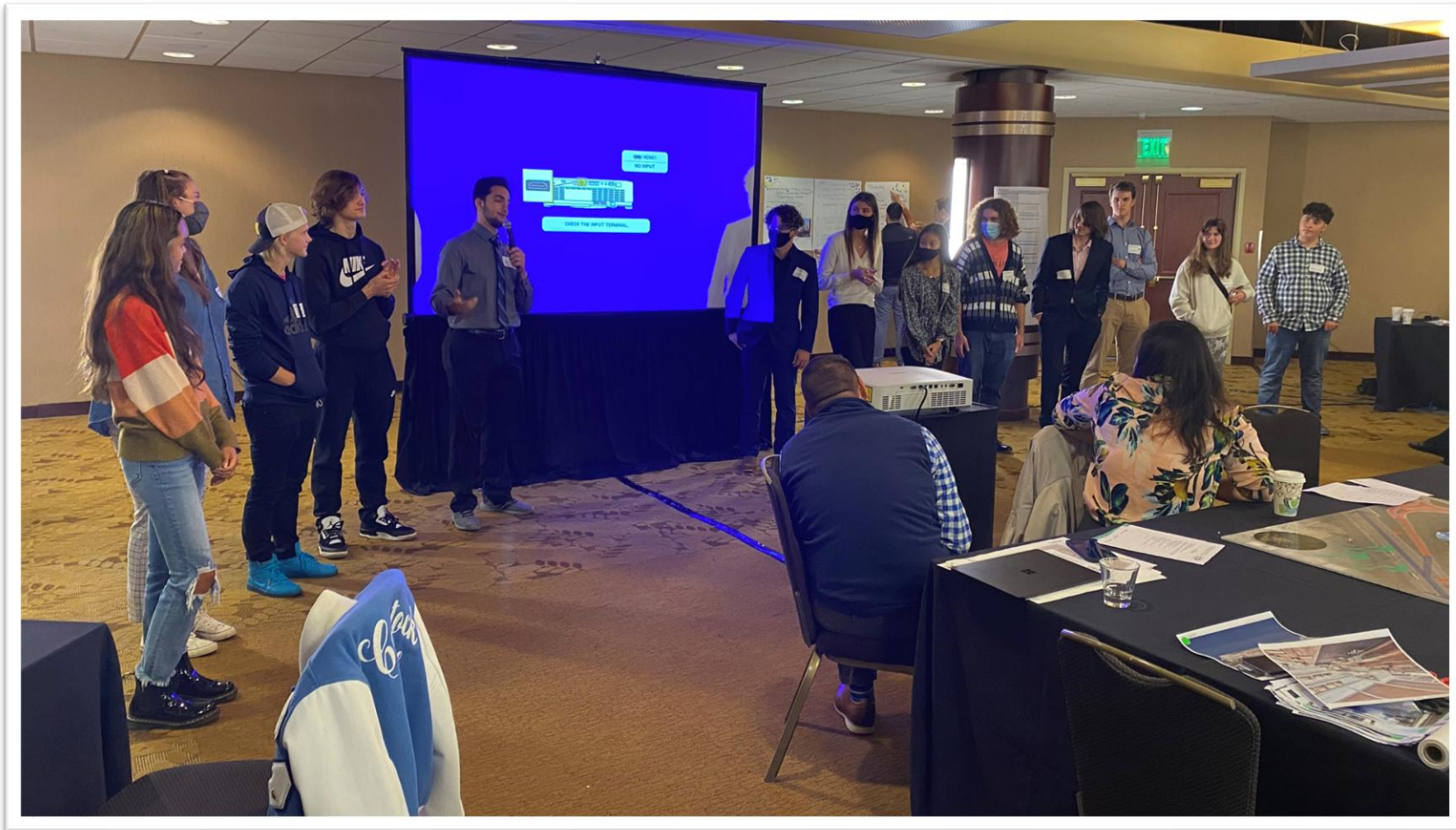
20 minutes

11. Vote and get **Feedback**

Vote on your favorite scheme and get feedback from the group.

+ What worked	- What needs improvement
? Questions...	! Ideas...

10 minutes



WELCOME

Evoke Belonging + Design WITH Students

Kalamazoo, Michigan

Natural Landscape Images



KRESA CCC Welcome



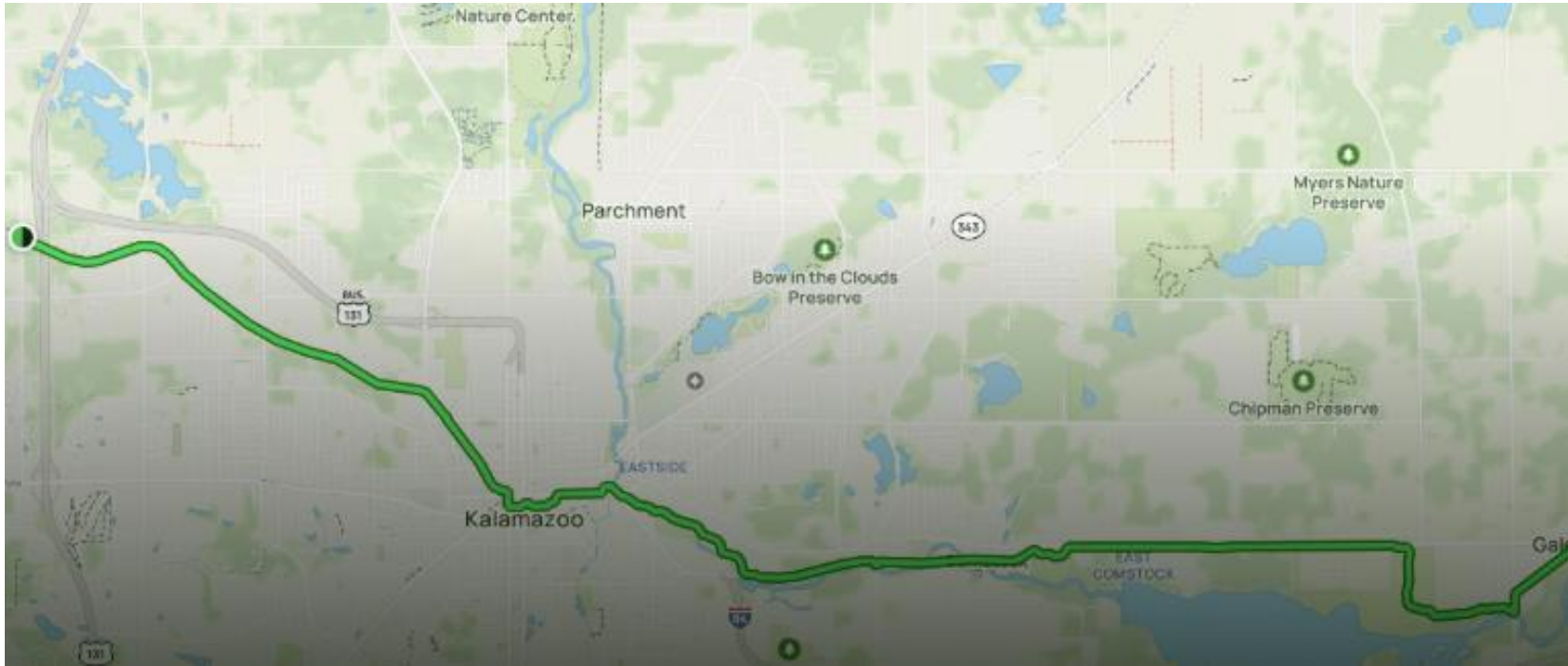
KRESA CCC Welcome



KALAMAZOO RESA

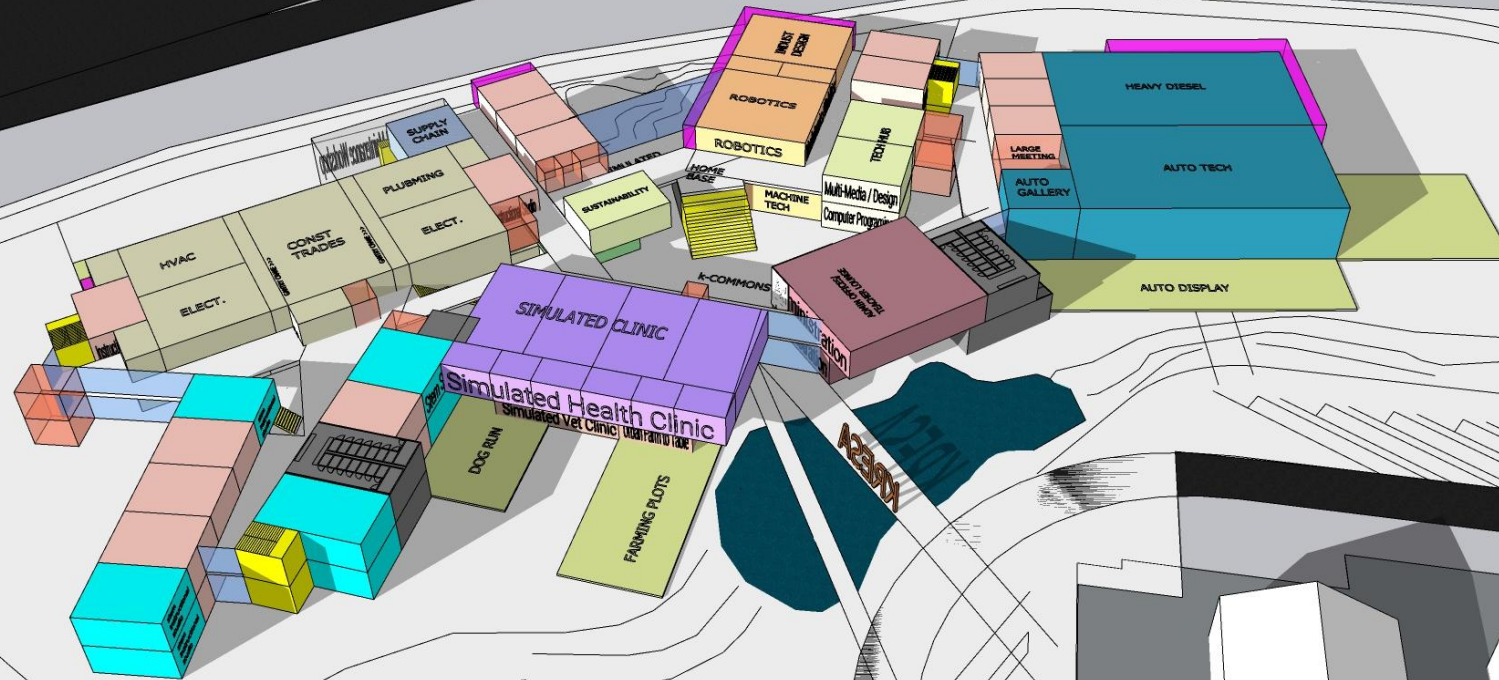
CAREER CONNECT CAMPUS





KALAMAZOO RIVER VALLEY TRAIL

New Career Center | Concept Design



KRESA CCC





Concept Book



Contact Information

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Education Market Sector Specialist

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