

"The Virgin Islands Department of Education embraces ALL students and empowers them to achieve their fullest potential."

A 9th Grade Center was studied post occupancy



INTRODUCTION







- DLR GROUP
- FAIA
- Architect



DR. LENNIE SCOTT-WEBBER

• INSYNC: Education Research + Design

AIA Affiliate

PI





- Federal Institute for Health & Posture
- Health & Kinetic Scientist

Co-PI







DINA SORENSEN

- d.studio
- Architect
- Assoc AlA, LEED
- AP BD & C

Co-PI

PANELIST

d.studio

MODERATOR



PANELIST





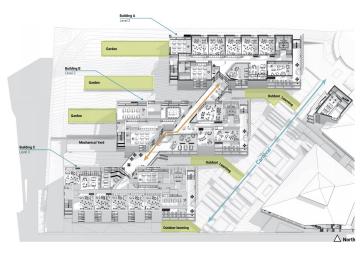
DISASTERS, OPPORTUNITIES, VISION: TRANSFORMING LEARNING EXPERIENCE WITH PURPOSE | VIDE











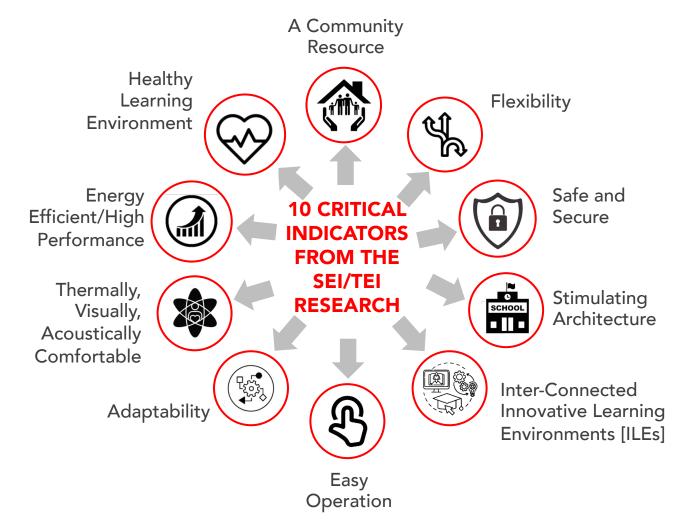






SEI/TEI Student Engagement IndexTM & Teacher Engagement IndexTM Used to Inform 'Space Curricula Alignment Indicators'

[Research led by Dr. Scott-Webber, INSYNC: Education Research + Design]





VIDE Guiding Principles...





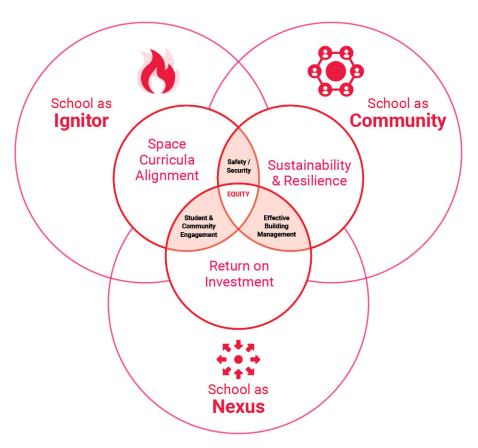




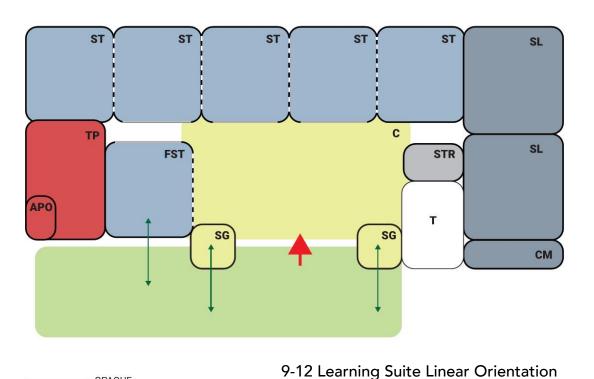
Health, Safety & Security

Cultural, Local & Economic Competence and Resilience

Integrated Design, Assessment, Operation & Management



9-12 Learning Suite



OPAQUE TRANSPARENT CHANGE IN MATERIAL FLEXIBLE/OPERABLE Open Collaboration Space POTENTIAL CONNECTION TO OUTDOOR LEARNING Small Group TOILET 1,000 SF 400 SF 1,000 SF 850 SF 800 SF 200 SF 1,000 SF 600 SF 400 SF





INFORMED PLANNING RESEARCH







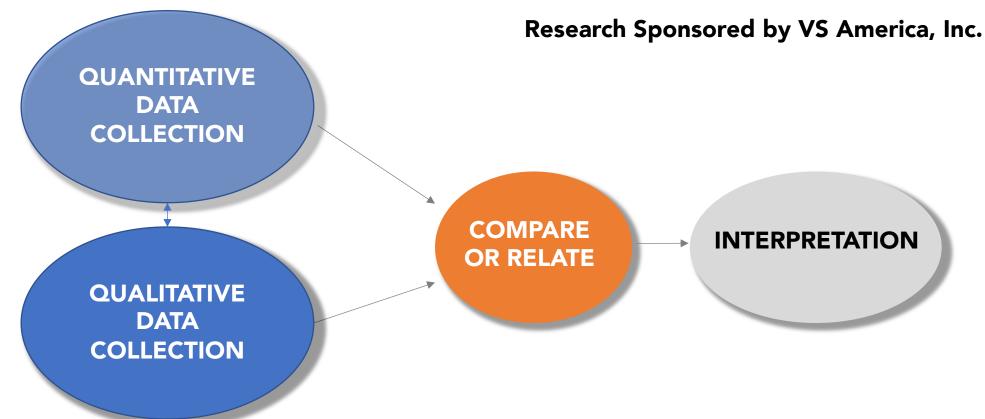


WHY?

UNDERSTAND IF 9th GRADE ERGO-DYNAMIC FURNITURE DESIGN SOLUTIONS ARE INTUITIVE FOR USERS WITHOUT INTERVENTION





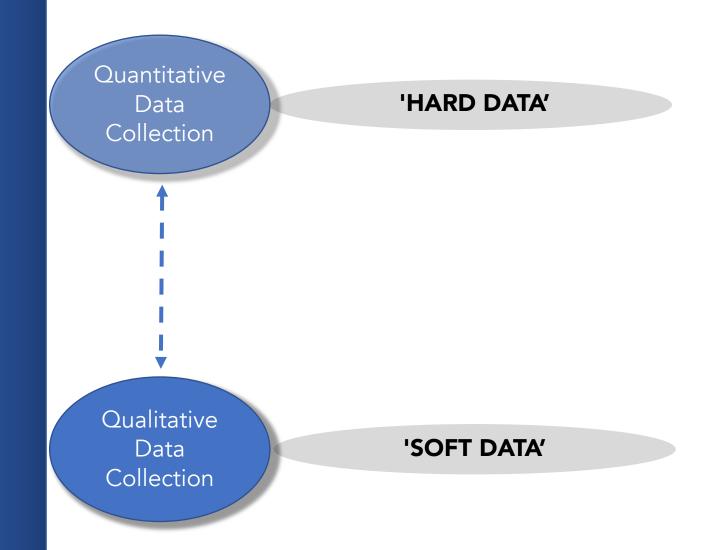


EXPLORATORY STUDY POE

Basic Mixed-Methods Research Design (adapted from (Harvard Catalyst, 2022)

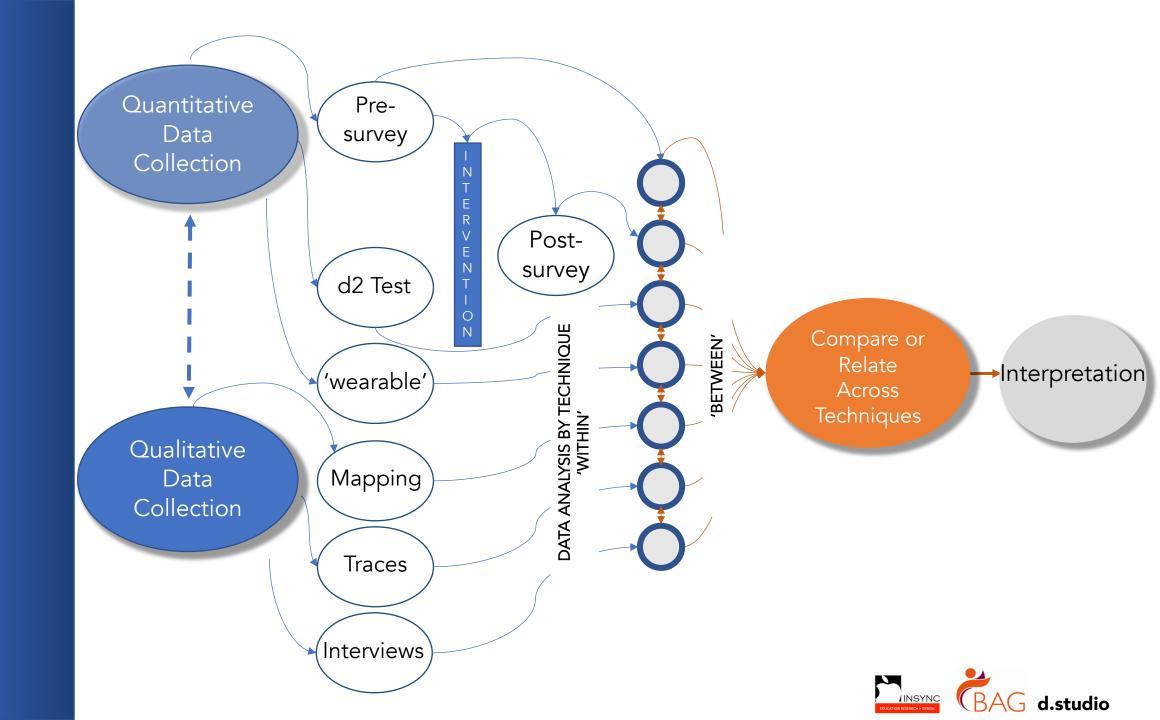


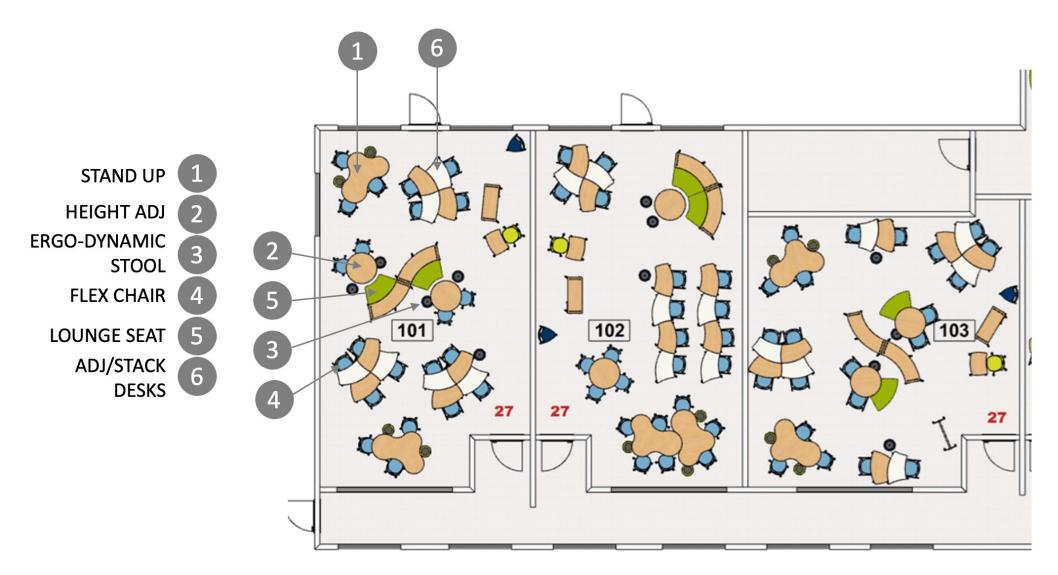
















WHAT?

WE SAW





VIDE

RM 101 [LOCATION A]

IMG.2757

2/28/22

9:21AM

Day 1 Block 1 DMS/AM

- Small group / whole group
- Interactive
- Student-to-Student
- Teacher-to-Student
- S's: / W L ^ > ~
- T:/WL^~

POSTURE





IMG.2843 12:54PM

IMG.2847 1:09PM

RM 301 [LOCATION E] DAY 1 BLOCK 3 DMS/PM





POSTURE

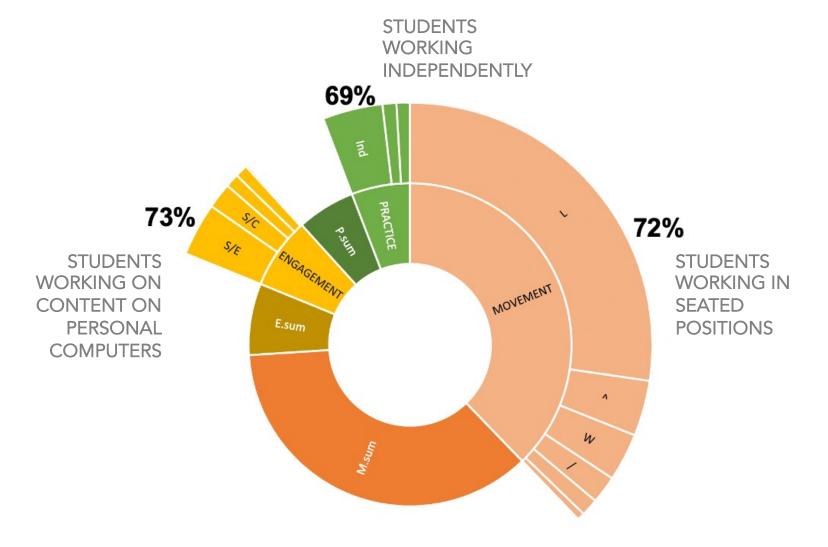
Day 1 Block 3 DMS/PM

- S's: / L ^ > ~

- T: W ^

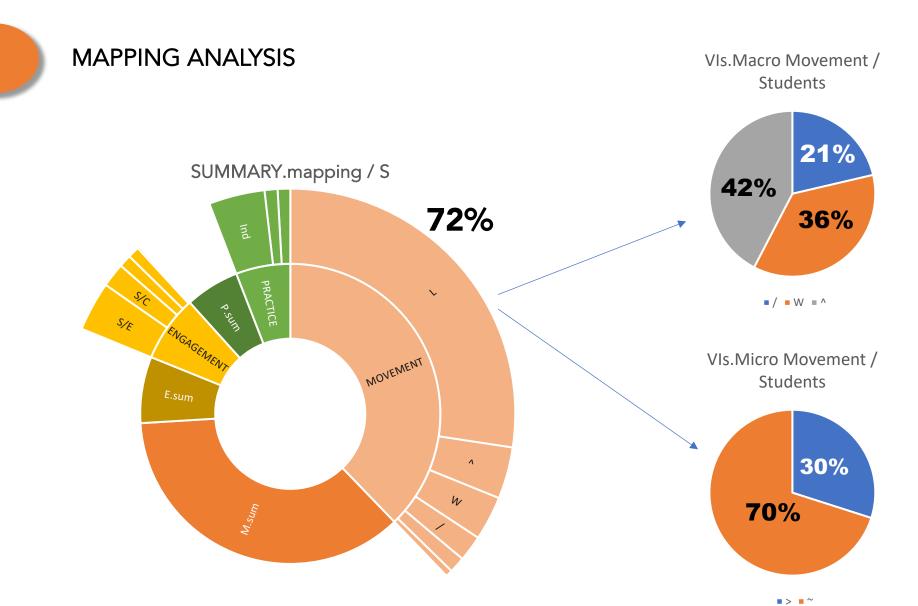


MAPPING ANALYSIS / OVERALL













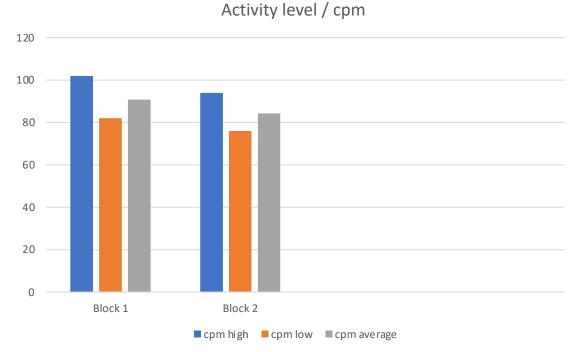


Wearables / Accelerometer

Seated / Mostly Inactive Behaviors



'Wearable' – Accelerometer



Measured Activity Behaviors



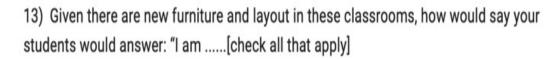


WHAT?

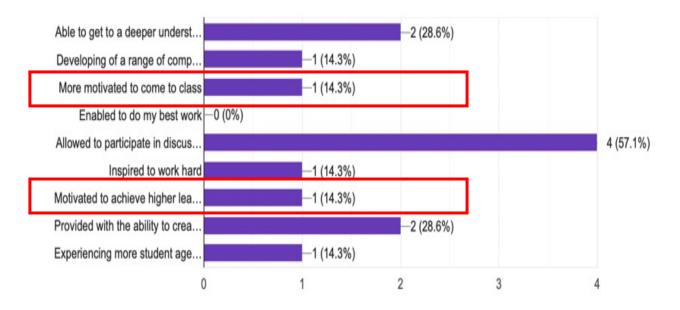
WAS SAID







7 responses



Spatial Design and Purpose-built Furnishings <u>Generated a Higher Motivation for Higher Learning</u>
<u>Outcomes for Students</u>







- 1) Both students and educators continued to <u>be excited to</u> <u>come to school designs made a difference</u>;
- 2) Far less negative/destructive behavioral issues; and
- 3) A sense of <u>pride/belonging</u> imbued.





- 1) ILE designs at the ergo-dynamic furniture level are not as intuitive, particularly for the educators, as previously assumed;
- 2) Teaching practices guide the utility of use of ergodynamic settings and overall ILE design solutions; and
- 3) Students still had too much sedentary time affecting cognitive performance levels negatively.



"We felt more empowered to allow students to become independent in navigating the classroom."
--- Educators





INTERPRETATIONS

A 9TH GRADE FURNITURE ECOSYSTEM MATTERS /
BUT IT'S NOT ENOUGH!





INDEPENDENT

W/CONTENT ON COMPUTERS

SITTING POSTURES



FURNITURE AND PEDAGOGY ARE INTERTWINED



LACK OF KNOWLEDGE IMPACTS ALL EFFORTS



WE NEED A CIRCULAR SYSTEM

Implications are significant and impacting multiple decision makers:

- Architecture
- Interior Design / Interior Architecture
- Planning
- Educational leadership
- Facility management
- Professional development for educators.



NEXT STEPS

TAKE AWAYS???





DISASTERS, OPPORTUNITIES, VISION: TRANSFORMING LEARNING EXPERIENCE WITH PURPOSE | VIDE

WITH THANKS!







