Curating Learning Spaces

Presentation: Swedish Edtest & Uppsala Kommun, Se

November 27, 2020

Peter Charles Lippman, Assoc. AIA, REFP

Educational Facility Planner | Researcher | Educator | School Designer

Places Created for Learning: We Bring *Your* Schools to *Life*

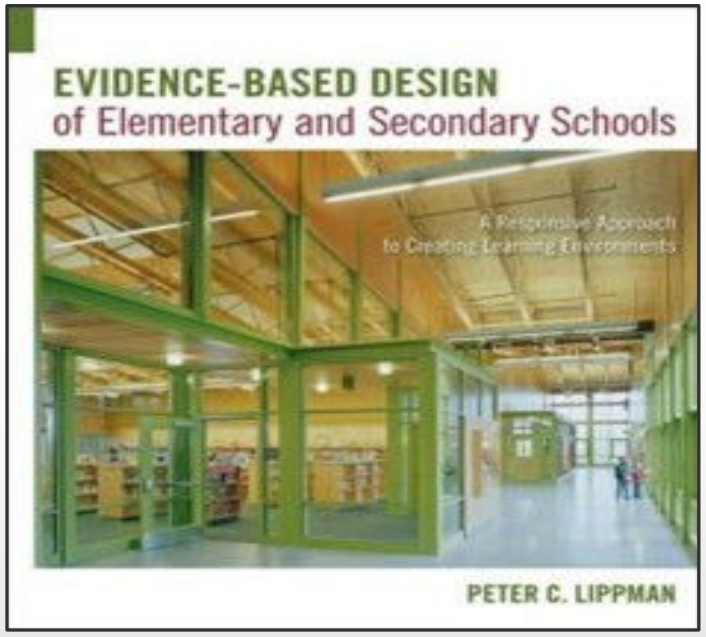
T: +614 3405 4467

E: pclippm531@gmail.com & pcl@placescreatedforlearning.com

OBJECTIVES

- Classroom: Yesterday, Today, and Tomorrow
- Fitting the Technology into the School
- Creating Dynamic Learning Environments

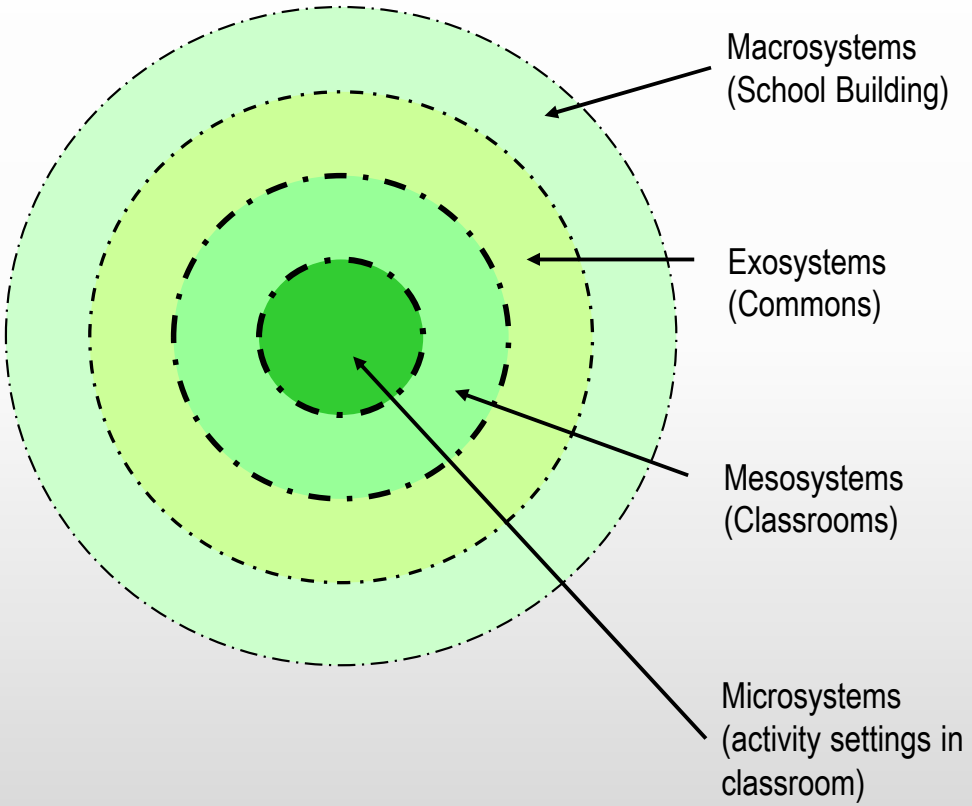
Following an Evidence Based Approach



Evidence Based Design (EBD)

- *What is EBD?*
- *Why should we consider this approach?*
- *When do we apply this approach?*

Environments for Learning



*The **challenge** for creating dynamic learning environments is synthesising the evidence from environmental psychology, developmental psychology, architecture, and education.*

*This **integration of evidence** offers a narrative about how the learning environment may be designed to positively impact learning.*

ENVIRONMENTS FOR LEARNING

OR

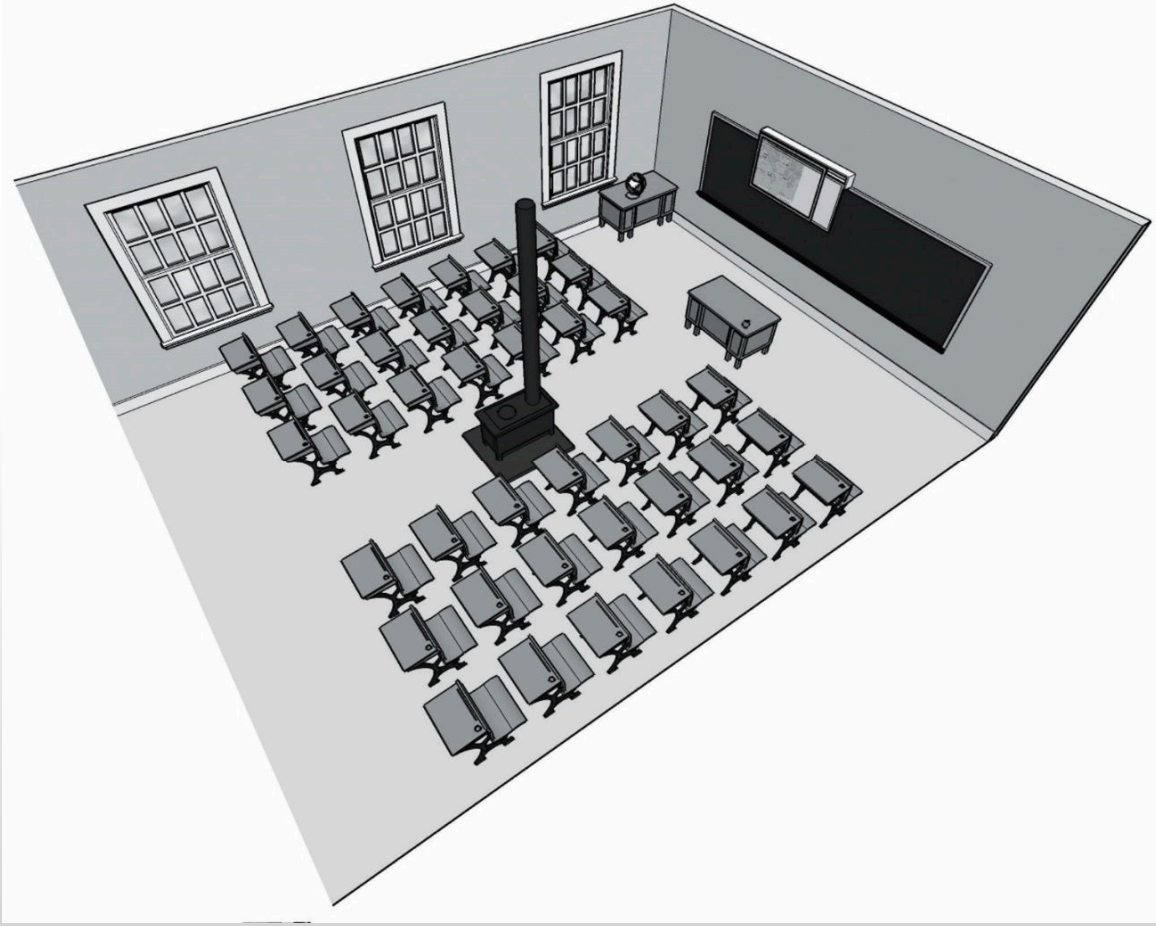
Historically……

- Should we Fit the learner to the learning environment?
- Should we design the learning environment to support the learner?
- Should we design the learning environment around the learning?

Today with COVID….

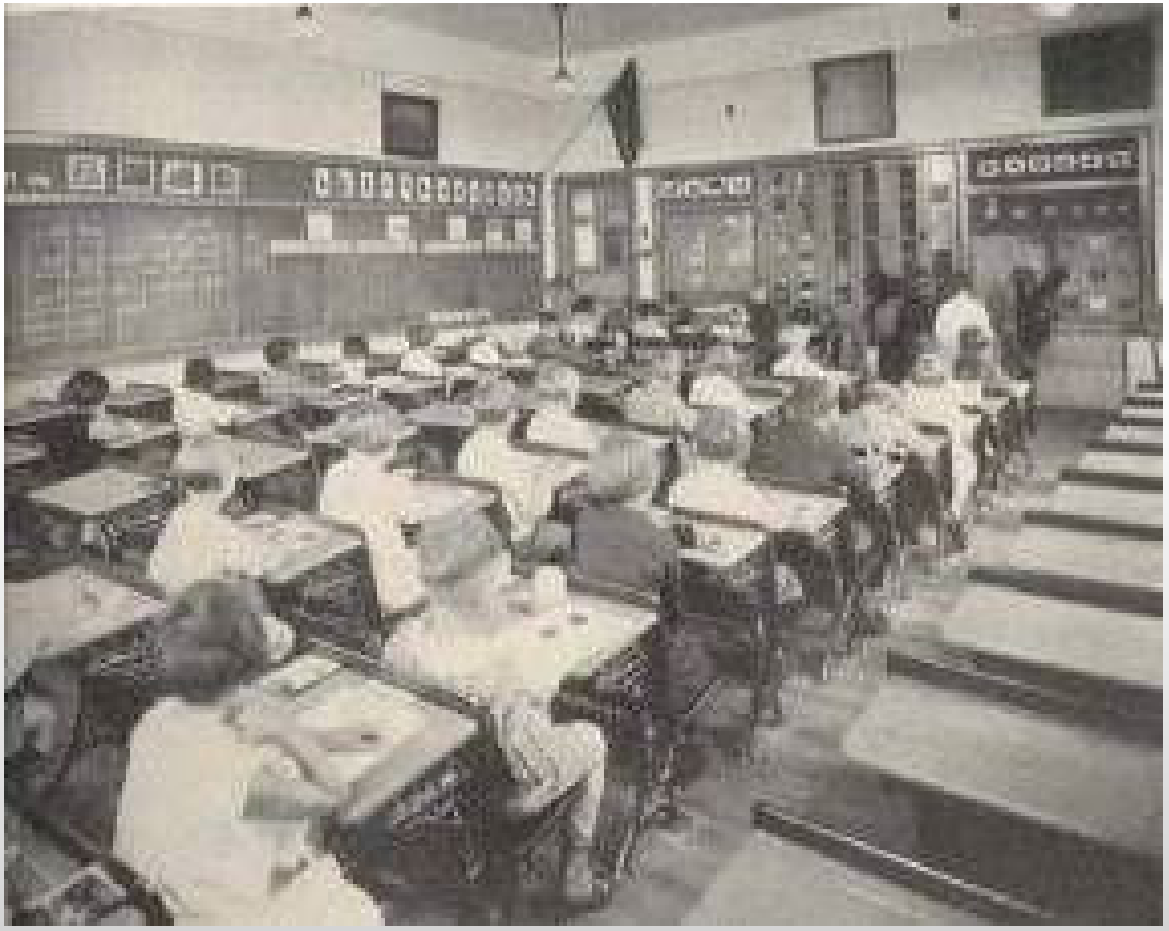
- Where are our learning environments?
- What do they look like?

ENVIRONMENTS FOR LEARNING



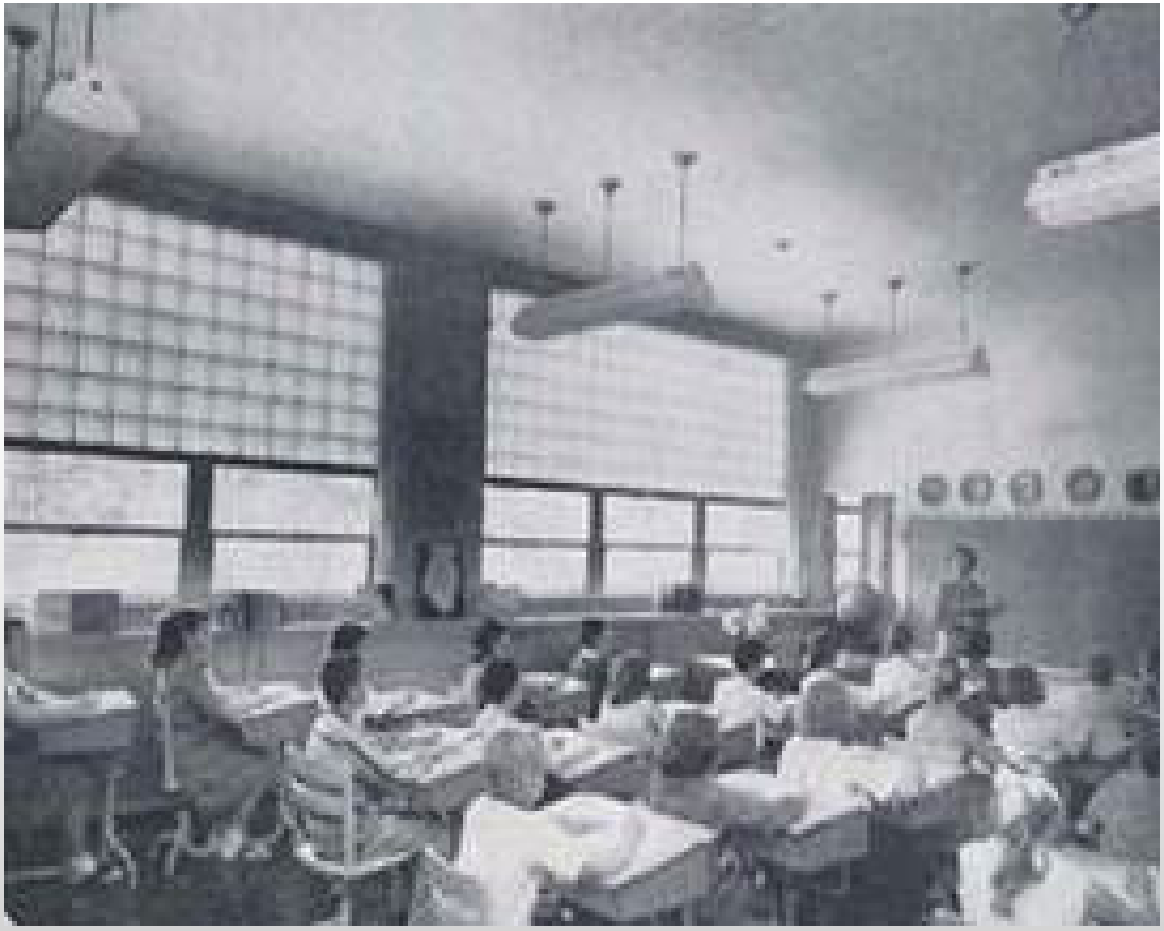
One Room School House: 1730-1840

ENVIRONMENTS FOR LEARNING



1920

ENVIRONMENTS FOR LEARNING



1960

ENVIRONMENTS FOR LEARNING

2000

ENVIRONMENTS FOR LEARNING

2010

ENVIRONMENTS FOR LEARNING

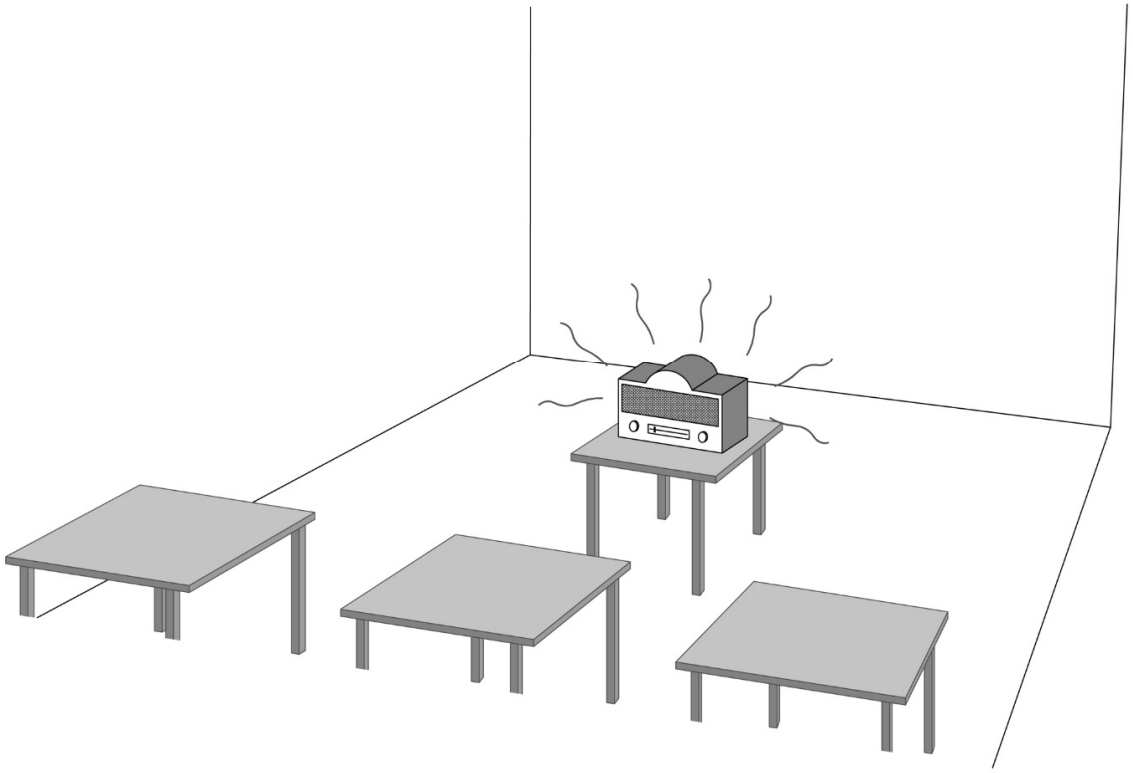
Today!

How do we Integrate Technology in the Learning Environments?

Questions:

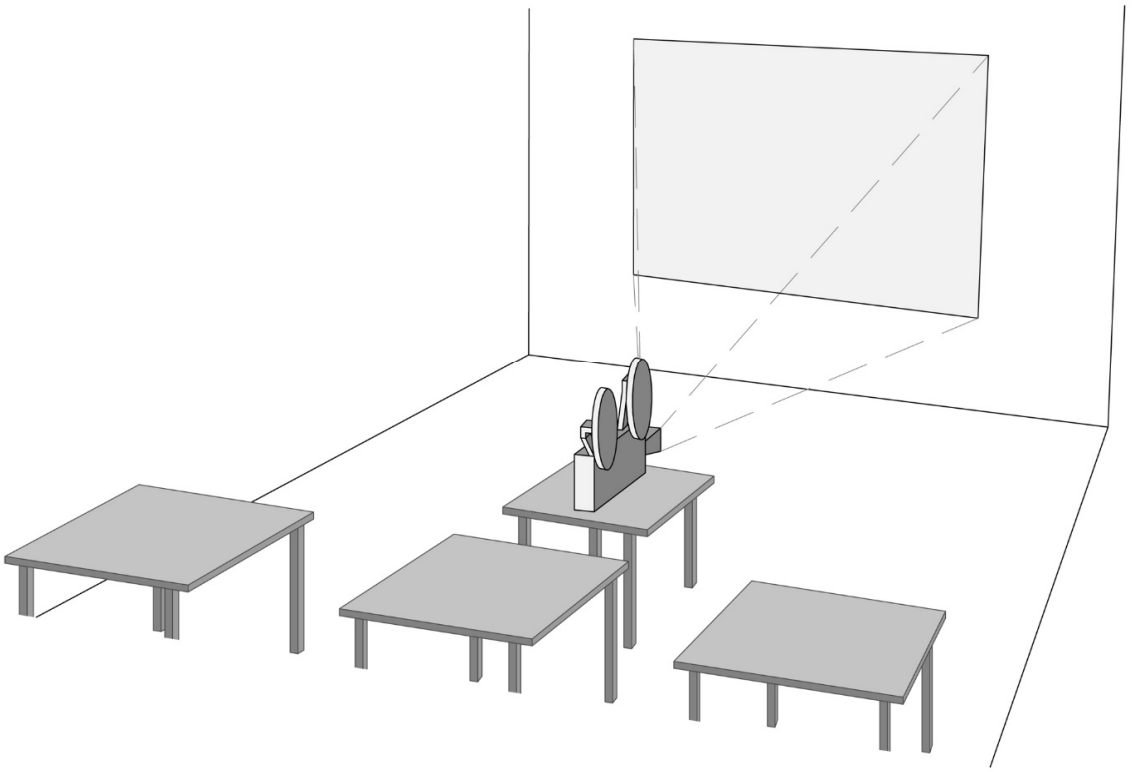
- *How do we Design the learning environment to encourage the learning?*
- *How do we Design the learning environment to support the things to be learned?*
- *How do we Design the learning environments to support, engage and inspire the learner?*
- *How do we integrate support new technologies, responsively?*

How do we Integrate Technology in the Learning Environments?



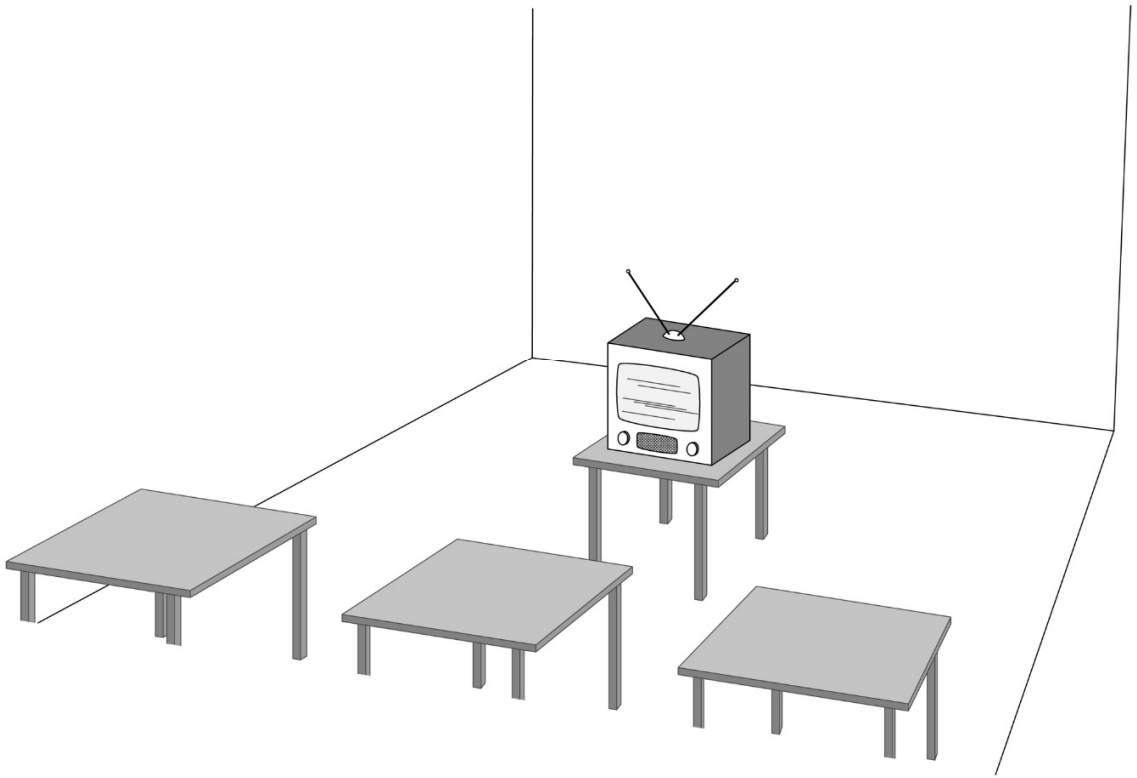
1920

How do we Integrate Technology in the Learning Environments?



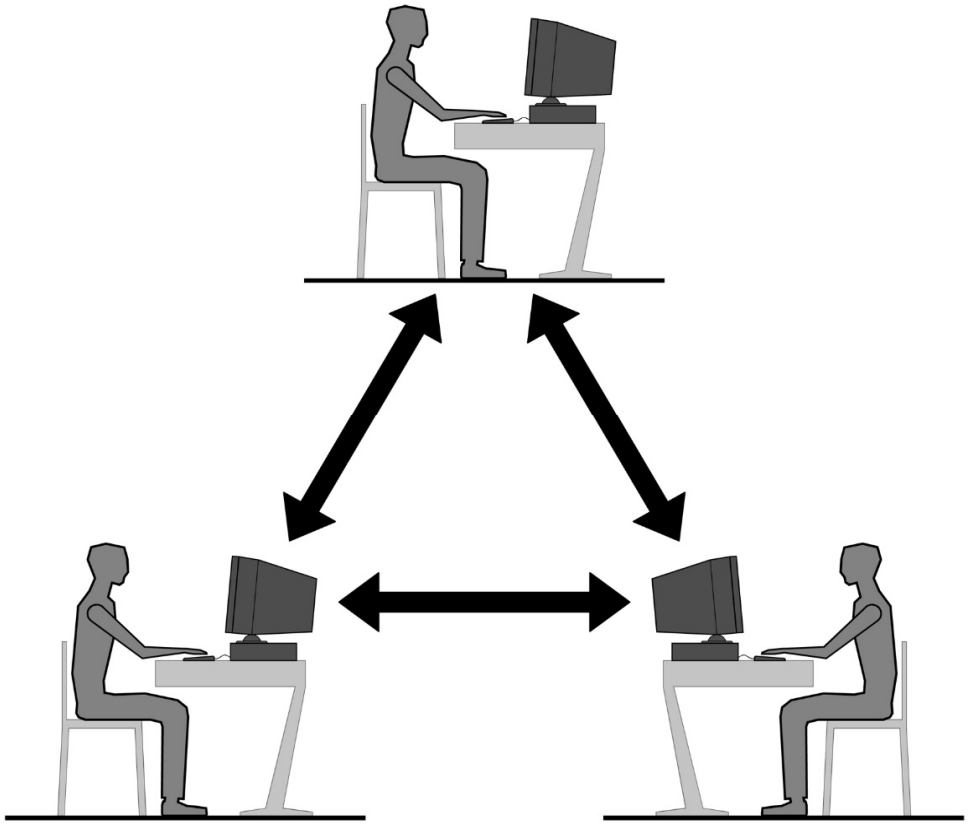
1940
&
Beyond

How do we Integrate Technology in the Learning Environments?



1960
&
Beyond

How do we Integrate Technology in the Learning Environments?



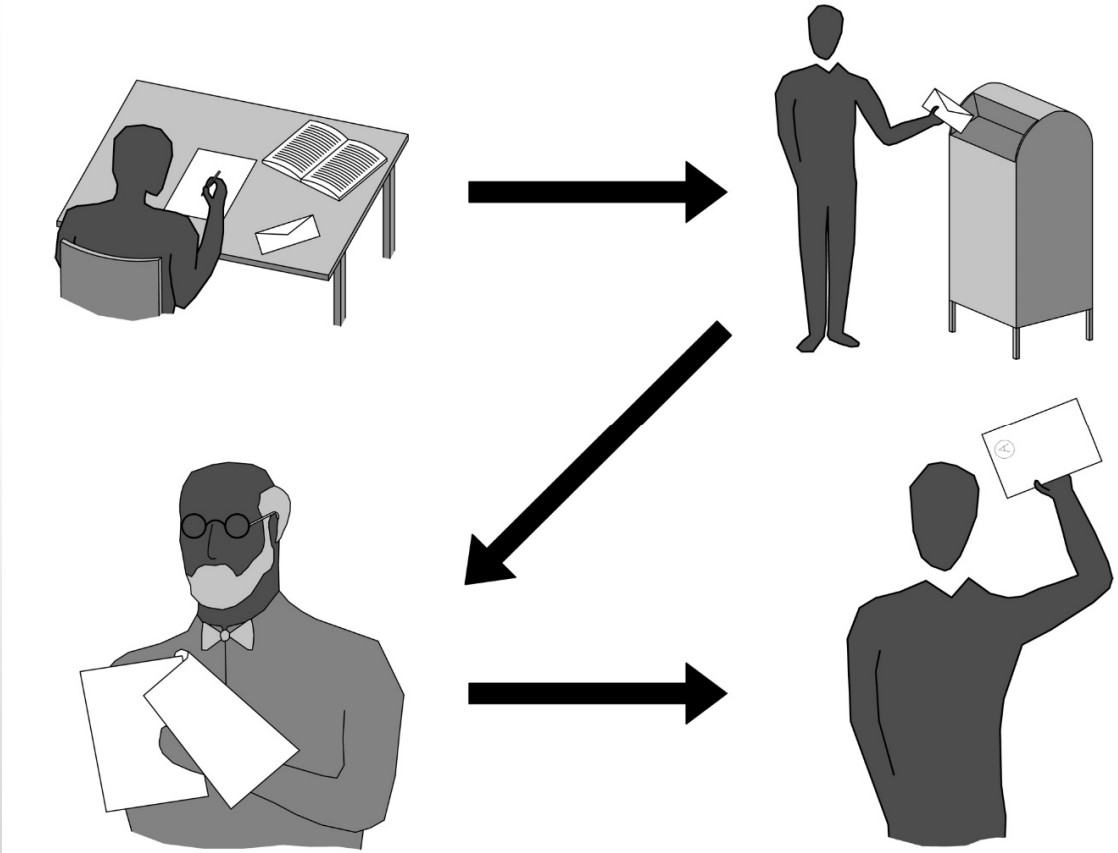
2000
&
Beyond

How do we Integrate Technology in the Learning Environments?

Distance Learning

- *Allows for the Distribution of information remotely*
- *Provides opportunities to share knowledge from different locations*
- *Connects Learning, learners and the things to be learner, where students can learn* ***anytime***, ***any place***, ***anywhere*** *and* ***at their own pace***.

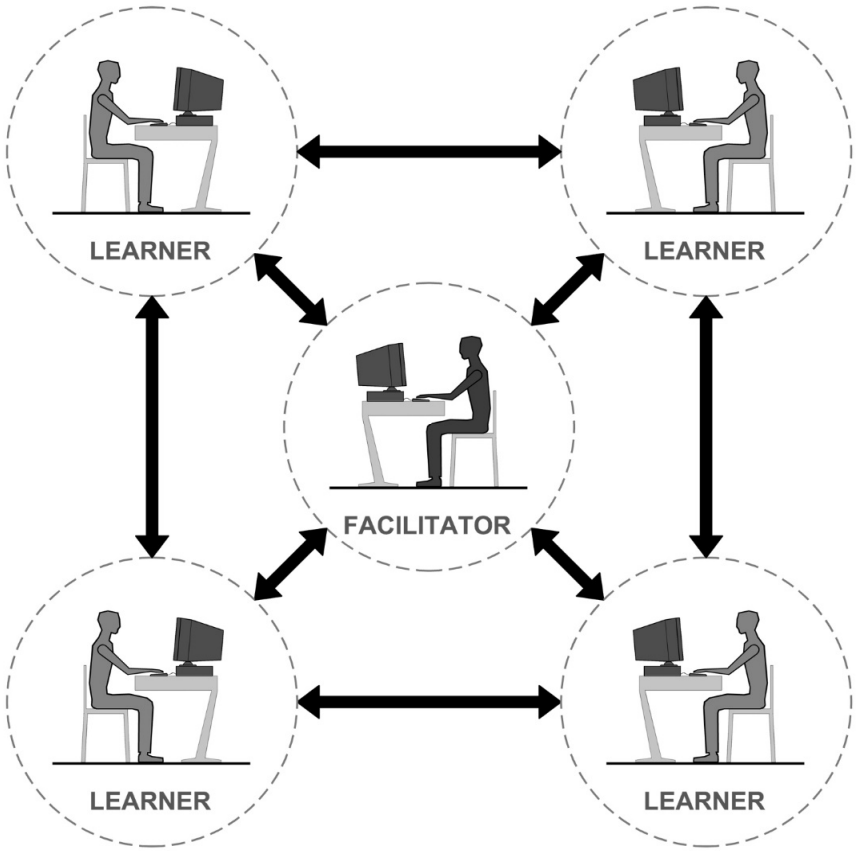
How do we Integrate Technology in the Learning Environments?



Correspondence Courses / Distance Learning

- How similar is it to how we learn now?
- How different is it to how we learn now?

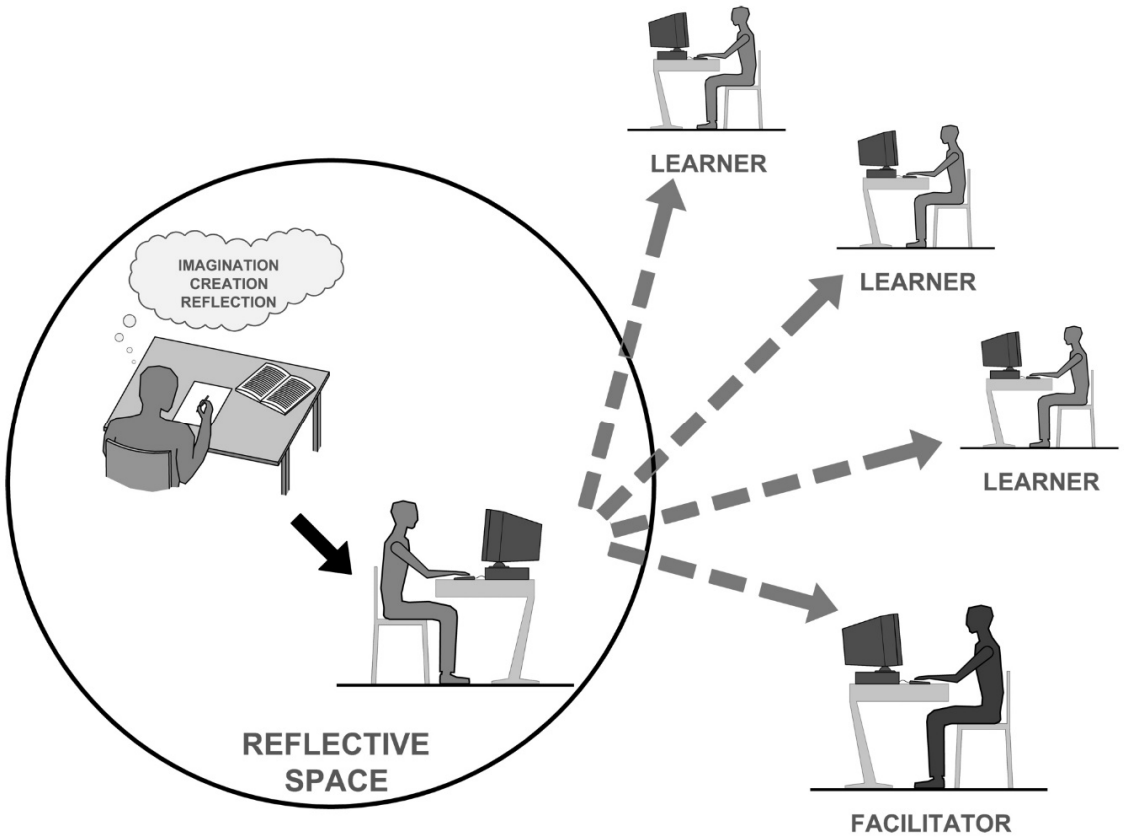
How do we Integrate Technology in the Learning Environments?



Distance Learning

- What kind of spaces are needed (Inside and Outside)?
- Are these places constrained by time?

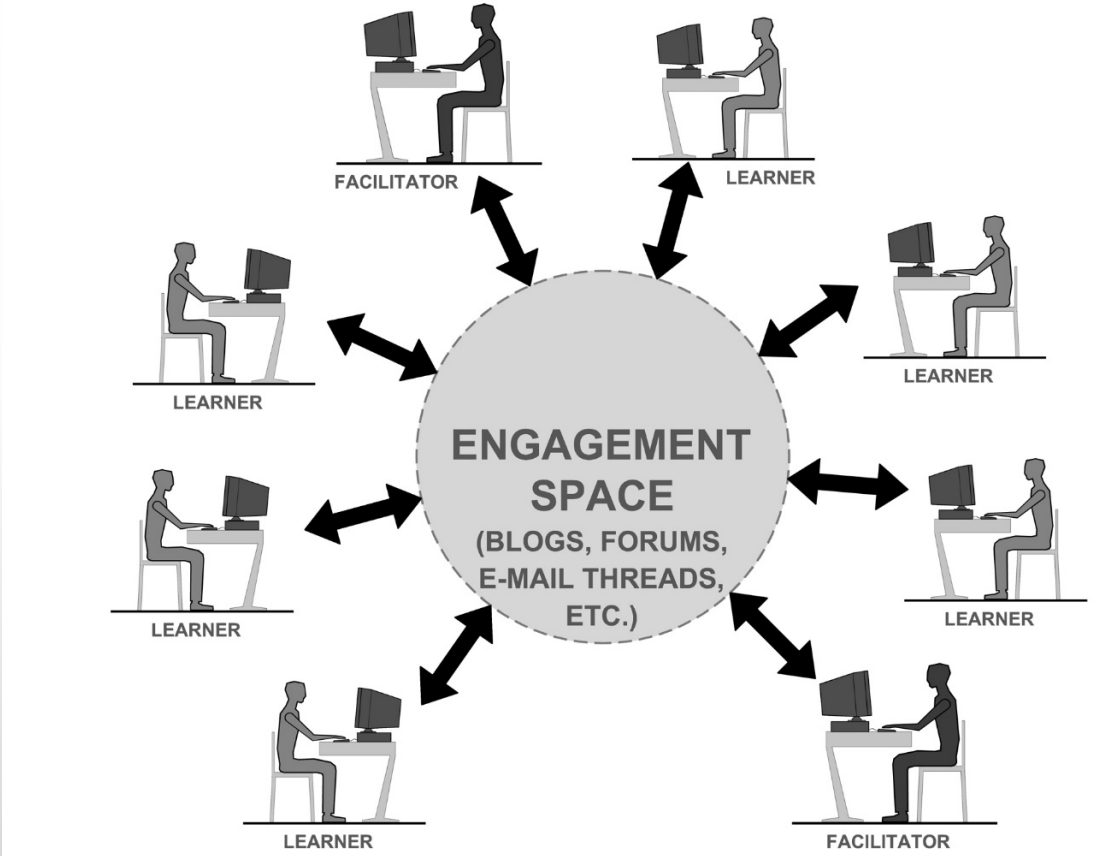
How do we Integrate Technology in the Learning Environments?



Distance Learning

- Does reflective space occur in the traditional classroom?
- Do we consider reflection important to the developing child?
- What happens when we allow people to reflect on their experiences?

How do we Integrate Technology in the Learning Environments?



Distance Learning

- How do transactions take place in the virtual world?
- Are these transactions supportive or unsupportive?
- What do we need to do make our transactions work?

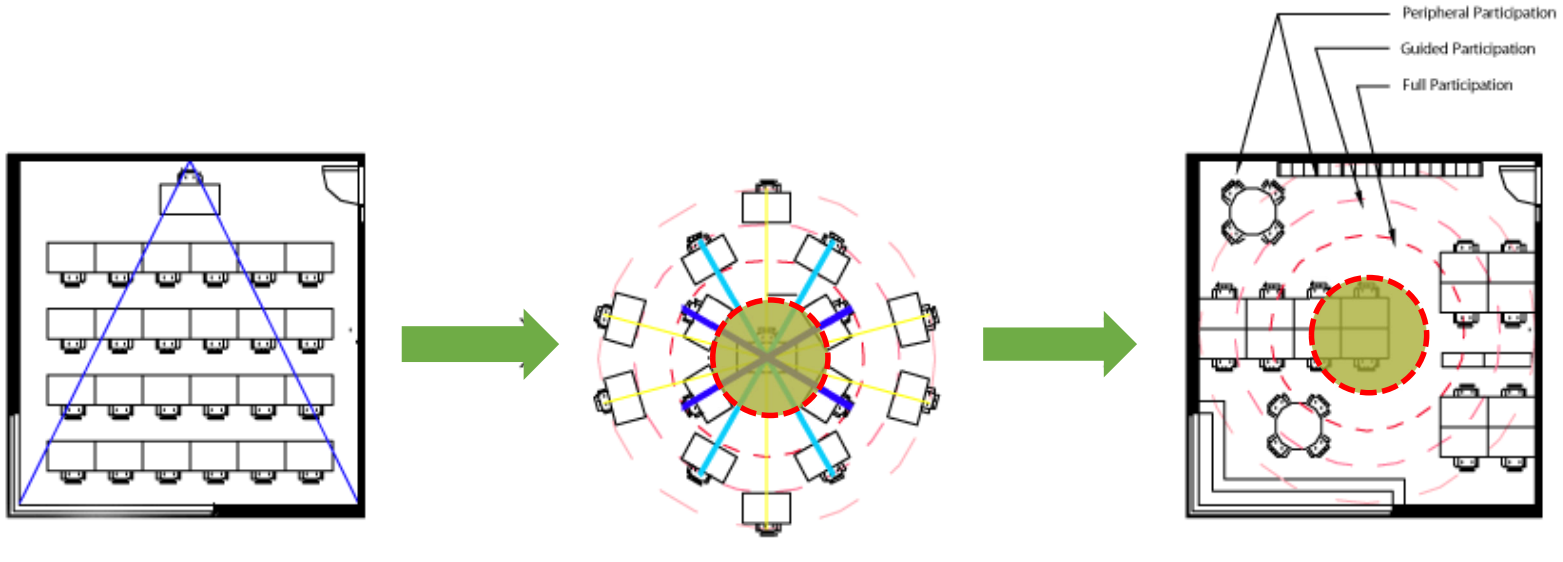
CREATING DYNAMIC LEARNING ENVIRONMENTS

QUADRANT 4: PRACTICE THEORY

- PRACTICE THEORY INVOLVES LEVELS OF PARTICIPATION & GROUNDS LEARNING IN PHYSICAL SETTING
- INTERPLAY OF ACQUISTIONS & TRANSFORMATIONS - ***TRANSACTIONS***

ENVIRONMENT ACTIVE

CREATING DYNAMIC LEARNING ENVIRONMENTS



Traditional / Current Classroom Environment

Distributed Learning Environment

Creating an Integrated Learning Environment

INNOVATIVE LEARNING ENVIRONMENTS, NO MORE!

21st Century Learning Principles

1. Critical Thinking
2. Collaboration
3. Creativity
4. Communication
5. Connectivity
6. Citizenship / Culture (Communities of Practice)
7. *Competency*

CREATING DYNAMIC LEARNING ENVIRONMENTS

What is a dynamic Learning Environment?

When a species changes its environment and adapts to it, a co-evolution between a species and its niche ensues.

Since species continuously change the environment for themselves as well as for other species, this evolutionary process may be viewed as dynamic (Presti, 2019).

CREATING DYNAMIC LEARNING ENVIRONMENTS

Students rely on:

- computers, pens, learning resources, a learning management system.
- access to shared learning space.
- writable surfaces which need writable pens and learning.
- management systems which
    - are useless without power and Wifi.
    - are useless without carefully designed tasks (learners learn through knowledge-oriented design by teachers on their in and in the company of others)

CREATING DYNAMIC LEARNING ENVIRONMENTS

For the learning environment to become a place where learners may acquire knowledge and participate with others, we need to understand the sum of all the dependences between:

Human (H); and Thing (T)

HT – Human and Thing

TT – Thing and Thing

HH – Human and Human

HHT – Human, Human, and Thing

HHTT – Human, Human, Thing and Thing

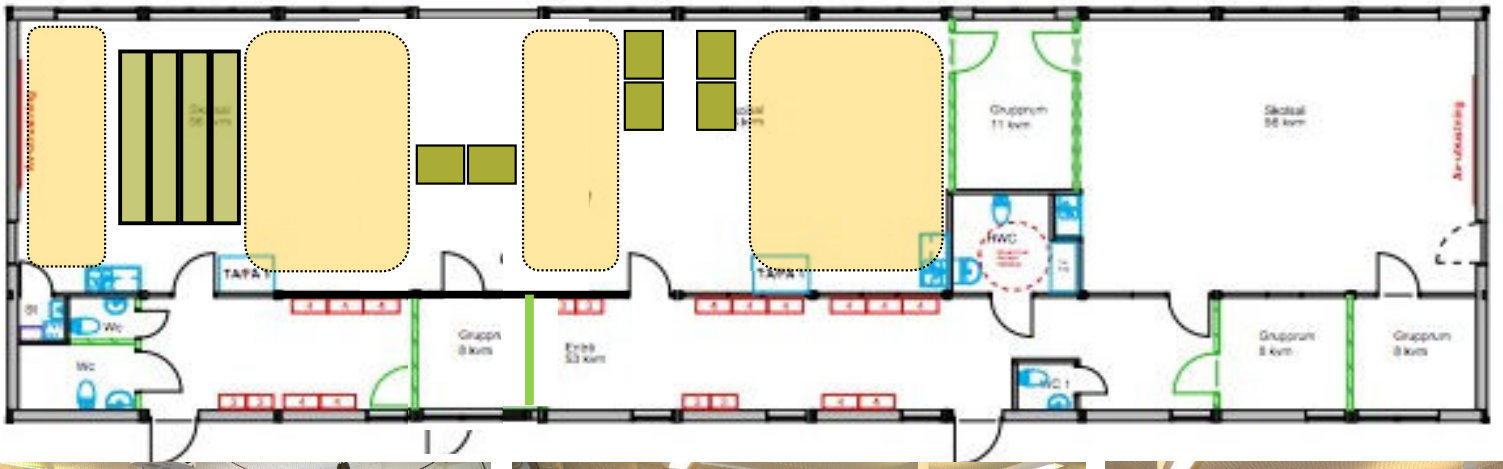
HHHT – Human, Human, Human, and Thing

CREATING DYNAMIC LEARNING ENVIRONMENTS

Along with what students rely on what else do we need?

- What kinds of spaces do we need for teaching and learning?
- What do teachers need to learn for managing these spaces?
- What do learners need to learn to acquire knowledge these spaces?

Creating Dynamic Learning Environments – Classrooms



CREATING DYNAMIC LEARNING ENVIRONMENTS

BEFORE: GRADE 1

AFTER: GRADE 1

CREATING DYNAMIC LEARNING ENVIRONMENTS

BEFORE: GRADE 2

AFTER: GRADE 2

CREATING DYNAMIC LEARNING ENVIRONMENTS

BEFORE: GRADE 4

AFTER: GRADE 4

CREATING DYNAMIC LEARNING ENVIRONMENTS

BEFORE: GRADE 5

AFTER: GRADE 5

CREATING DYNAMIC LEARNING ENVIRONMENTS

BEFORE: GRADE 7

AFTER: GRADE 7

CREATING DYNAMIC LEARNING ENVIRONMENTS

BEFORE: Nacka

AFTER: Nacka

CREATING DYNAMIC LEARNING ENVIRONMENTS

BEFORE: Nacka

AFTER: Nacka

CREATING DYNAMIC LEARNING ENVIRONMENTS

BEFORE: Gothenburg

AFTER: Gothenburg

CREATING DYNAMIC LEARNING ENVIRONMENTS

BEFORE: Huddinge

AFTER: Huddinge

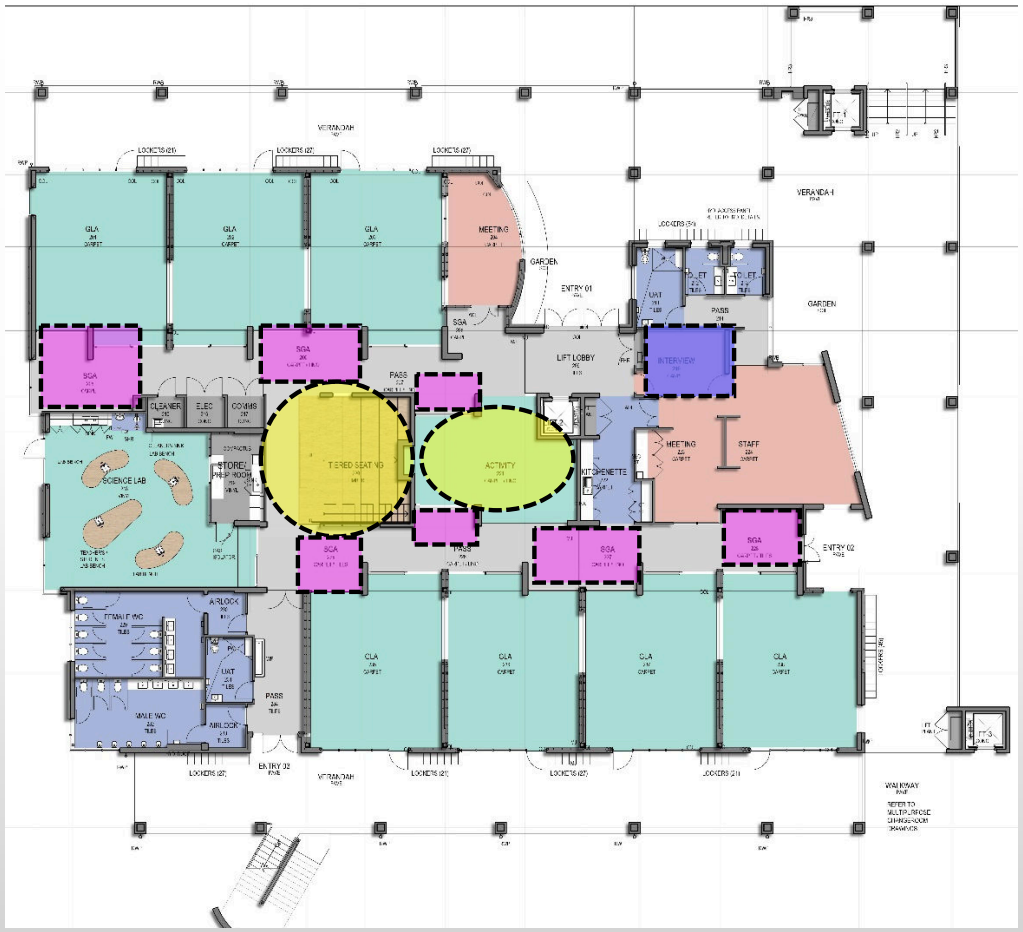
CREATING DYNAMIC LEARNING ENVIRONMENTS

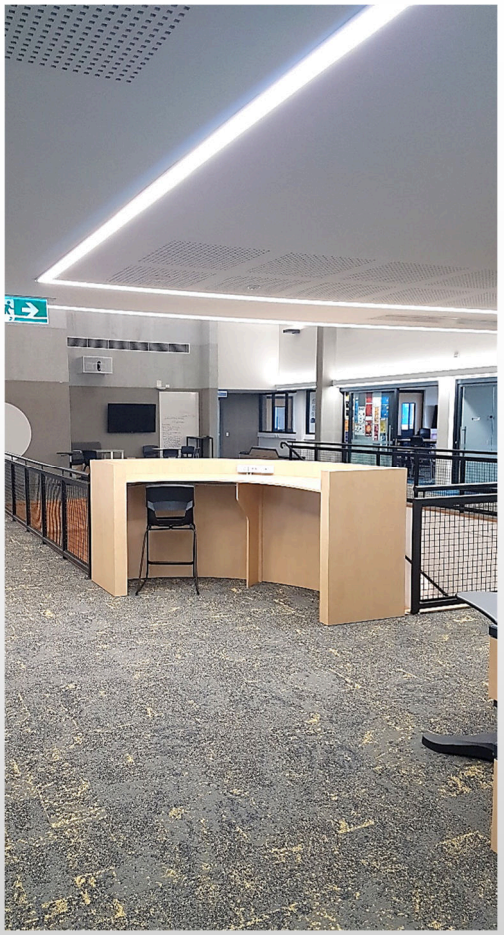
After: SGAGS Perth

AFTER: SGAGS Perth

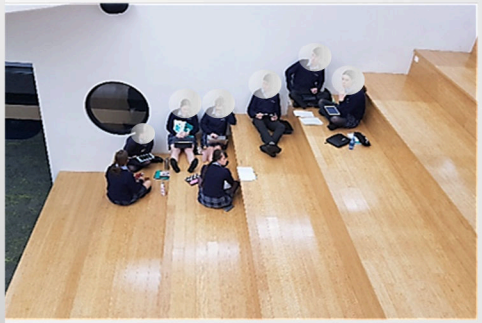
CREATING DYNAMIC LEARNING ENVIRONMENTS

Creating Dynamic Learning Environments – Outside Classrooms

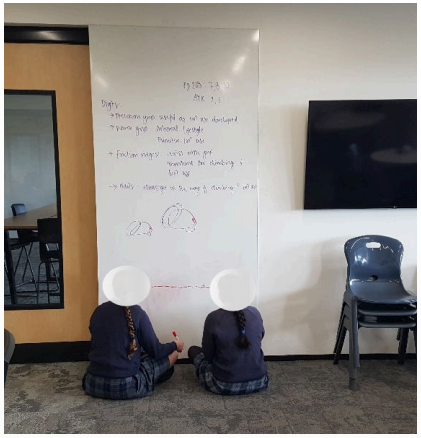


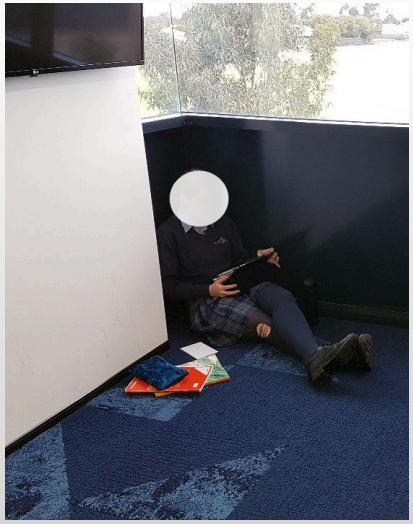


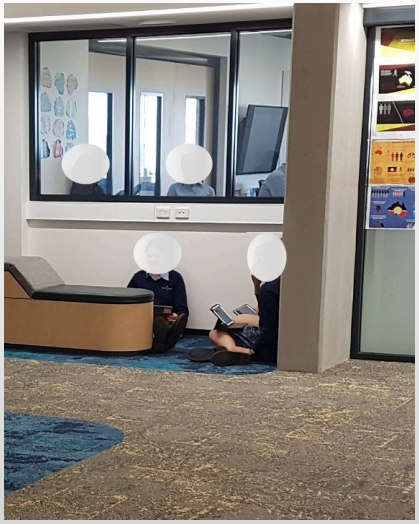
Creating Dynamic Learning Environments – Outside Classrooms



Creating Dynamic Learning Environments – Outside Classrooms







Questions

- What is a student-centred learning environment?

- Would you describe your classroom as student-centred? Why?

- What are the five things work you need in your classrooms to make it work?

Questions

- What might be the challenges with crafting Dynamic Learning Environments?

- What are the opportunities with crafting Dynamic Learning Environments?

Questions

- What are the two essential digital learning tools for your classrooms?

- What questions should we ask our architects and builders about providing the appropriate digital infrastructure to support digital learning tools for today and tomorrow ?"

Curating Learning Spaces

Presentation: Swedish Edtest & Uppsala Kommun, Se

November 27, 2020

Peter Charles Lippman, Assoc. AIA, REFP

Educational Facility Planner | Researcher | Educator | School Designer

Places Created for Learning: We Bring *Your* Schools to *Life*

T: +614 3405 4467

E: pclippm531@gmail.com & pcl@placescreatedforlearning.com