



# New Directions symposium

# WELCOME



# New Directions in Education and Facilities Planning

Prakash Nair, AIA



Education Design International Name Three Major Events that Have/Will Change the Way We...

CHANGES ->

CHANGES

CHANGES

CHANGES

- Communicate
- Socialize
- Shop
- Eat
- Get Entertained
- Bank
- Travel
- Meditate
- Sleep
- Learn & Grow

The Smartphone Has the Changed the Way We...

- Communicate
- Socialize
- Shop
- Eat
- Get Entertained
- Bank
- Travel
- Meditate
- Sleep
- Learn & Grow

# January 9, 2007 17 Years Young!

# And for a short while...

# COVID Changed the Way We...

- Communicate
- Socialize
- Shop
- Eat
- Get Entertained
- Bank
- Travel
- Meditate
- Sleep
- Learn & Grow



# And Tomorrow.

H

H

用

F

日日

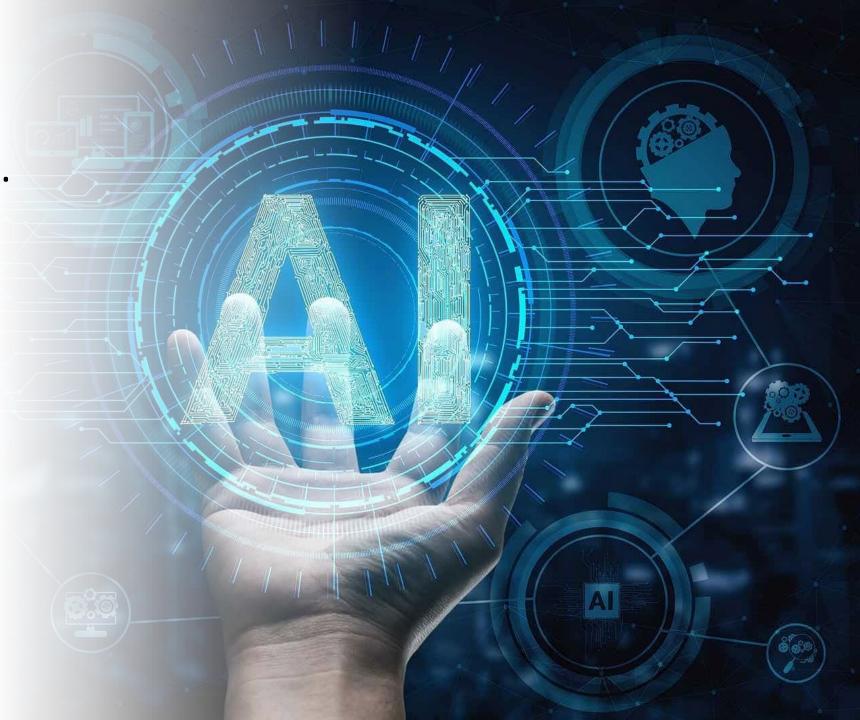
胃

用

日

# Al Will Change the Way We...

- Communicate
- Socialize
- Shop
- Eat
- Get Entertained
- Bank
- Travel
- Meditate
- Sleep
- Learn & Grow



# In this Context. . .



# What is the Purpose of Education?



Purpose of Education --Personal

- Self-Actualize
- Live a Happy Life
- Be Healthy



### Purpose of Education --Societal

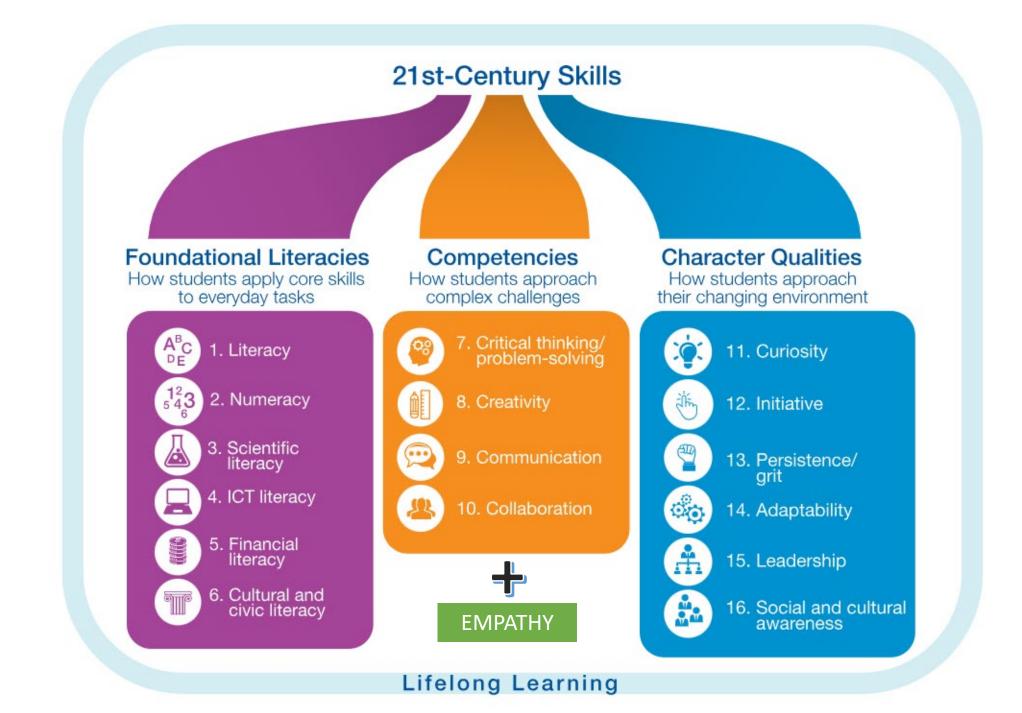
- Build a Fair & Just Society
- Live in a Peaceful World
- Take care of the planet
- Leave our children a better place than the one we inherited

Is Schooling Designed for Students to. . .

- Self-Actualize?
- Live a Happy Life?
- Be Healthy?

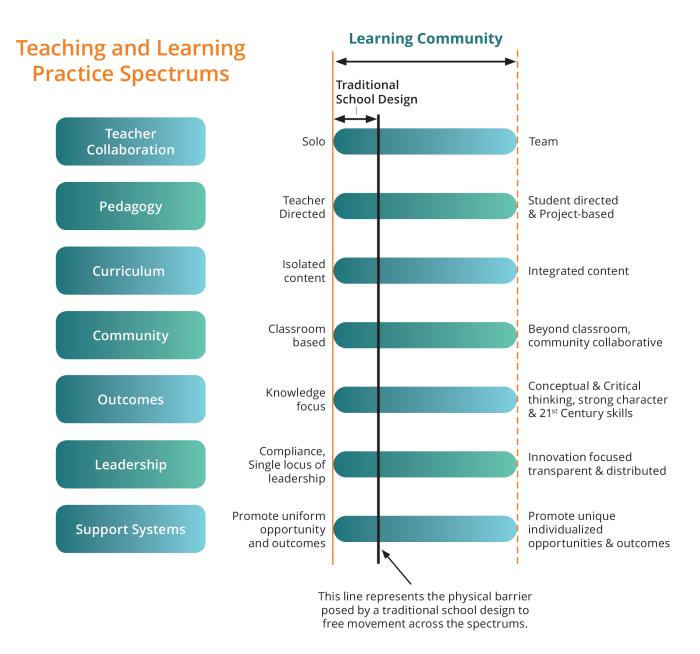
# Is Schooling Designed for Students to. . .

- Build a Fair & Just Society?
- Live in a Peaceful World?
- Take Care of the Planet?
- Leave their Children a Better place than the One they Inherited?



# The Tools of Schooling

- What we Learn = Curriculum
- How we Learn = Pedagogy
- Where we Learn = Classrooms
- From Whom We Learn = Teachers
- When we Learn = School Day in 50-min Increments



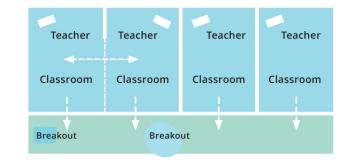
#### Individually Owned Rooms

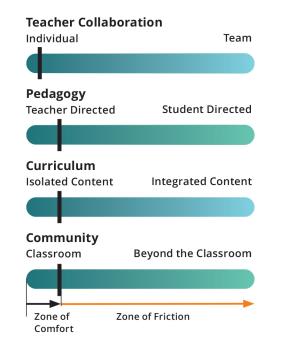
**Optimized for:** Individualized teaching practices, traditional structures and timetable, classroom - based community, single teacher classrooms, teacher - directed learning

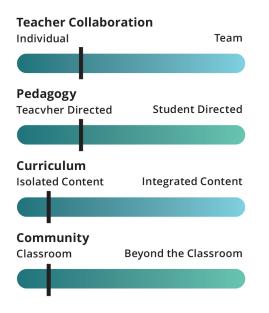
Teacher	Teacher	Teacher Teacher							
Classroom	Classroom	Classroom	Classroom						
Hallway									

#### Shared in a Pair

**Optimized for:** Pairings within grade, department & or interdisciplinary, shared unit/lesson design, co - delivery, flexible/ dynamic groupings, more varied learning modalities, shared assessment, easier for project - based, more options for breakout

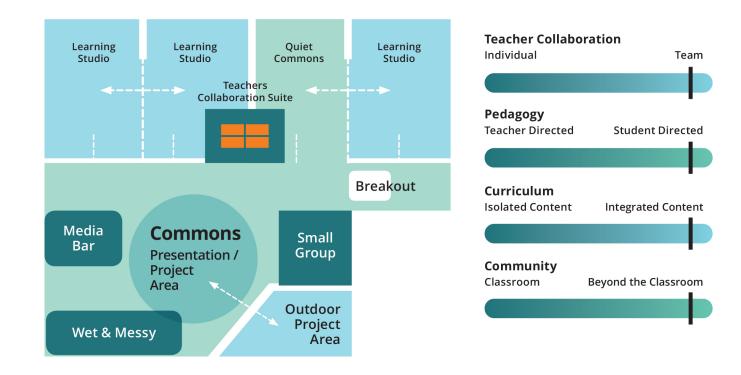






#### Learning Community

**Optimized for:** Curriculum organized around interdisciplinary themes, distributed democratic leadership, shared student responsibility, co-facilitated, cohort scheduling, highest levels of "community" and self directed learning.



#### **KEY DESIGN DRIVER - THE 20 LEARNING MODALITIES #1-10**



One on One with Teacher



Lecture



Project Based Learning



Internet Based Research



Independent Study



Mobile Technology Learning



**Distance Learning** 



**Student Presentation** 



**Peer Tutoring** 



**Team Collaboration** 

#### **KEY DESIGN DRIVER - THE 20 LEARNING MODALITIES #11-20**



Performance Based Learning



Seminar Style Instruction



**Design Based Learning** 



Interdisciplinary Learning



Storytelling



**Naturalist Learning** 



Social Emotional Learning



Team Learning / Teaching



Art Based Learning



Play & Movement Learning

#### Learning Modalities Chart -- Efficacy of Different Spatial Arrangement for Teaching and Learning

Learnin	g Modalities that Can be /ell in Space	Single Classroom	Group of Classrooms along Hallway	Single Learning Studio Older Students	Single Learning Studio Younger Children	Learning Suite (Combination of Learning Studios)	Small Learning Community
1	Independent Study						X
2	Peer Tutoring					X	X
3	One-on-one Learning with Teacher					x	x
4	Teacher Lecture	X	X	X	X	X	X
5	Team Collboration			X	X	X	X
6	Project Based Learning						X
7	Distance Learning						X
8	Learning with Mobile Technology			x	x	x	x
9	Student Presentations	X	X	X	X	X	X
10	Internet-Based Research			x	x	x	x
11	Roundtable Discussions						X
12	Performance-Based Learning						x
13	Interdisciplinary Learning				x	x	х
14	Naturalist Learning						X
15	Art Based Learning						X
16	Social-Emotional Learning					x	x
17	Design Based Learning						X
18	Storytelling				X		X
19	Team Teaching and Learning					x	x
20	Play and Movement Based Learning						
	umber of Modalities that vill Accommodate Well	2	2	5	7	10	19





AFTER





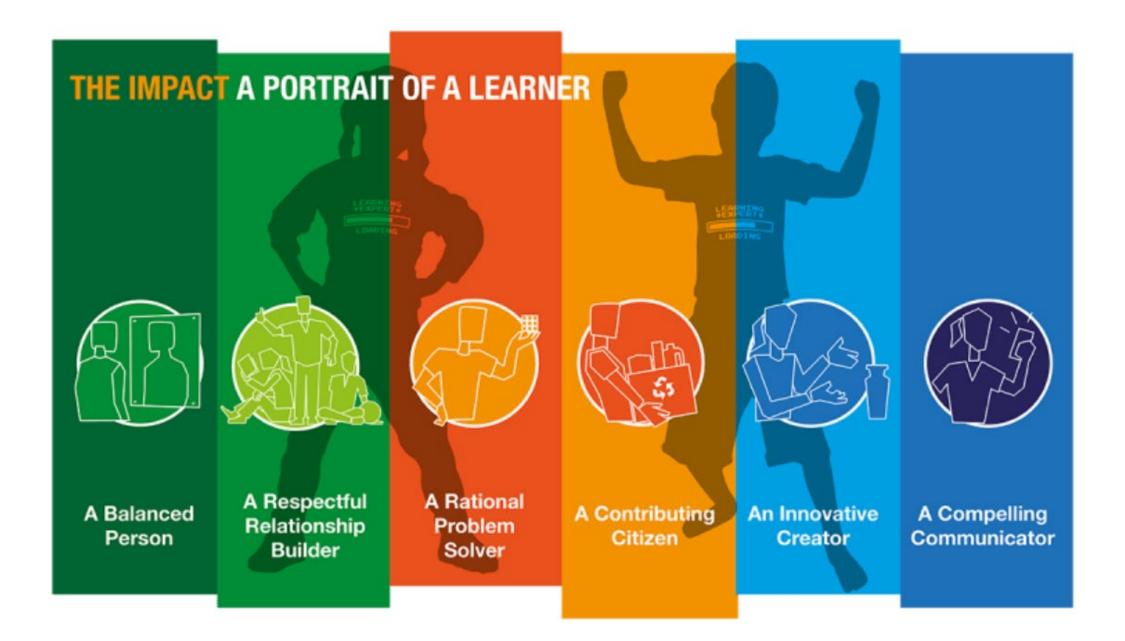




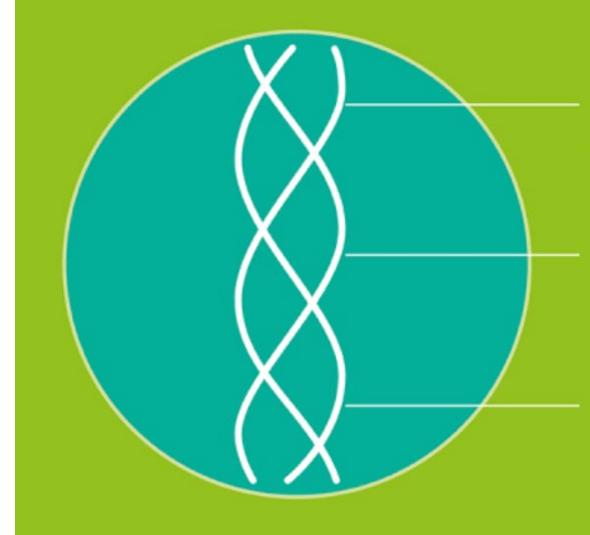


### Curriculum – The Elephant in the Room





#### THE SYSTEM THREE Cs THE DNA OF LEARNING:



### CONCEPTUAL

"WHEN WE CONNECT, CONSTRUCT, CONTRIBUTE, WE UNDERSTAND THAT..."

### **COMPETENCY**

"WHEN WE DECONSTRUCT, IDENTIFY, PRACTICE, WE ARE ABLE TO..."

# CHARACTER

"WHEN WE CONSIDER, ACT, REFLECT, WE BECOME MORE..."

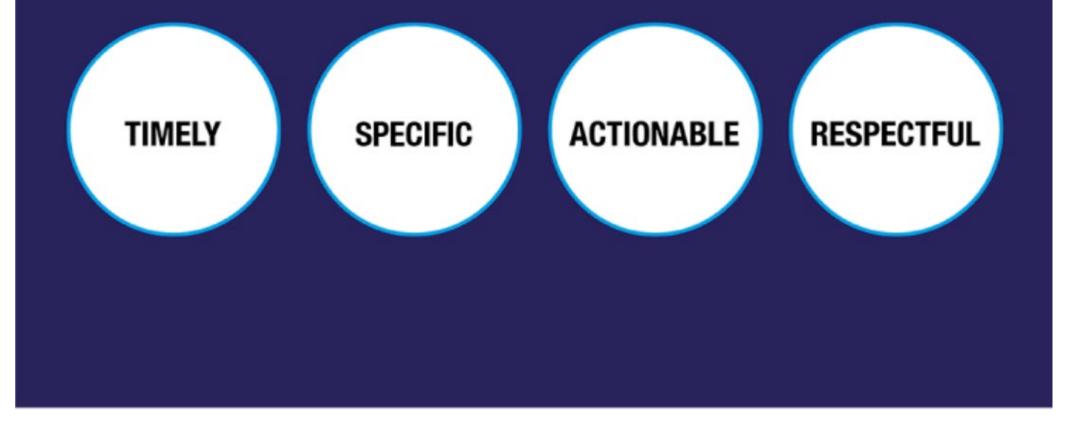
# THE QUESTION HOW DOES EVERYONE ACCESS LEARNING?

DIVERSIFYING LEARNING TO CREATE INCLUSIVE, EQUITABLE, LEARNING COMMUNITIES.

# THE QUESTION HOW DO WE PROVIDE EVIDENCE OF OUR LEARNING?

WE FOCUS ON QUALITATIVE, EVIDENCE-BASED, LEARNER-CENTRED ASSESSMENT. OUR PRIMARY PURPOSE IS TO PROVIDE **FEEDBACK** TO LEARNERS TO **IMPROVE** THEIR LEARNING AND TO TEACHERS TO **INFORM** OUR PRACTICE.\*

#### THE IMPACT EVERY LEARNER AND EVERY LEARNING PRACTITIONER BENEFITS FROM REGULAR FEEDBACK THAT IS:

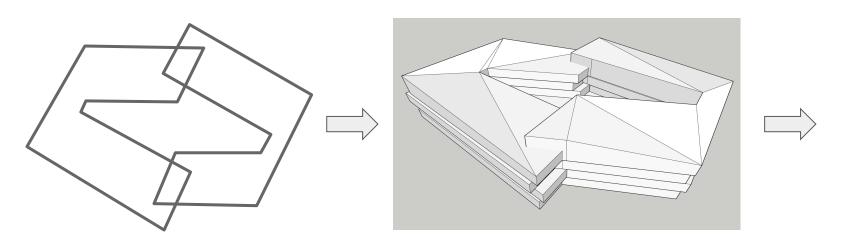


### Revolutionizing Learning Spaces with AI



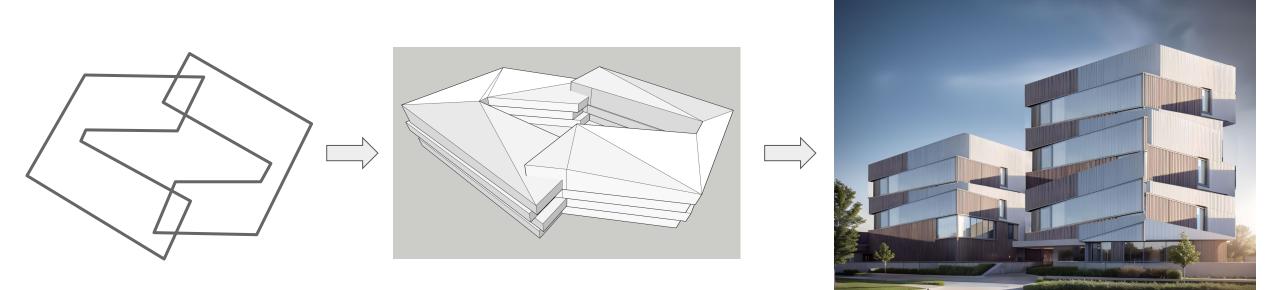
"The future of education lies in empowering young learners to embrace and develop their uniquely human qualities – those unlikely to ever be replaced by technology."

World Economic Forum, Defining Education 4.0: A Taxonomy for the Future of Learning Report. Inspired by the elegance and harmony of mathematical principles, our STEAM school's exterior facade design embraces the concept of a mathematical spiral as its guiding inspiration.



#### **Design Concept**

Inspired by the elegance and harmony of mathematical principles, our STEAM school's exterior facade design embraces the concept of a mathematical spiral as its guiding inspiration.



















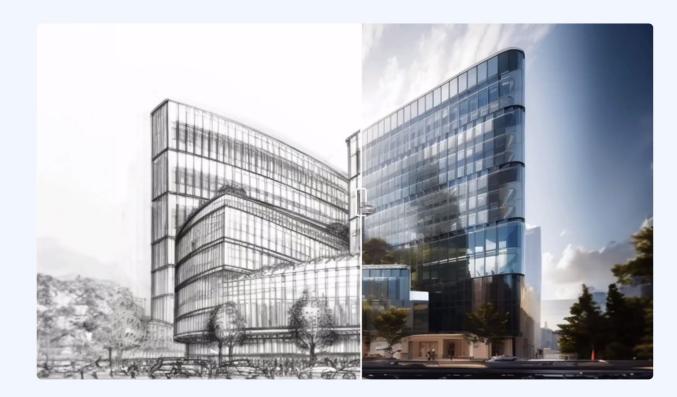




#### Architecture Al Design Assistant

Al Render tools for architecture and interior design. 1-click Sketch to Render in seconds.





### WHAT ARE THE CONDITIONS FOR MEANINGFUL, LASTING CHANGE?

# CONDITIONS FOR MEANINGFUL, LASTING CHANGE

**Reorganize Students** – No More Classrooms

**Reorganize Teachers** – No More One Teacher to 25 Students **Reorganize Schedule** – No More 50-Minute Periods

**Reorganize Learning Spaces** – No More Cells & Bells

# AND THE ESSENTIAL PRE-CONDITIONS FOR SUCCESS?

# AND THE ESSENTIAL PRE-CONDITIONS FOR SUCCESS?

- 1. Committed Leadership
- 2. Student-Centered Curriculum
- 3. Adequate & Appropriate Professional Development
- 4. Sufficient Funding

## **QUESTIONS?**