

Canutillo ISD

FACILITIES MASTER PLAN | FUTURES CONFERENCE



Welcome | Dr. Pedro Galaviz, Superintendent

Paul Mills – Jacobs Engineering

David Sturtz – DeJONG-RICHTER



Introduction | Jacobs

Experience in more than 13,000 of 98,717 US public schools

K-12 Assessments total over 1 Billion Square Feet

M■A■P■P■STM technology developed for K-12 Assessments and Long-Range Facilities Planning

Extensive 21st Century School experience



Introduction | DeJONG-RICHTER

Experience in more than 1,000 US Districts in 48 States

Over 275 Educational Specifications

Over 200 Facilities Master Plans

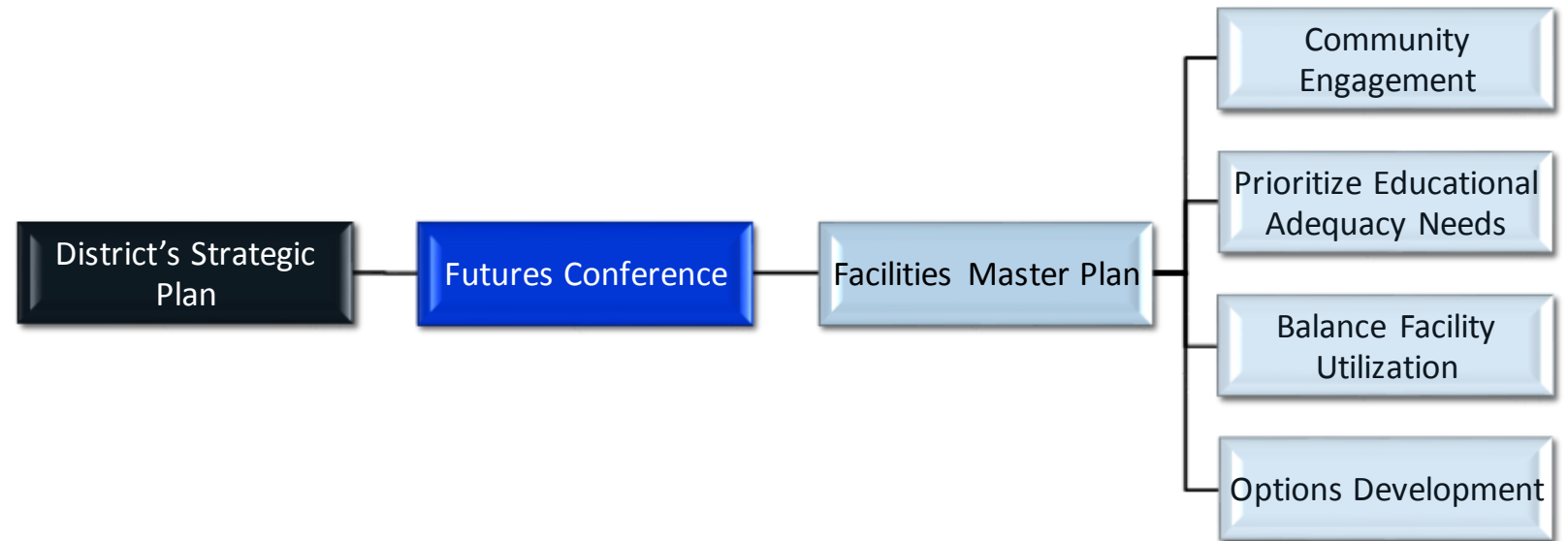
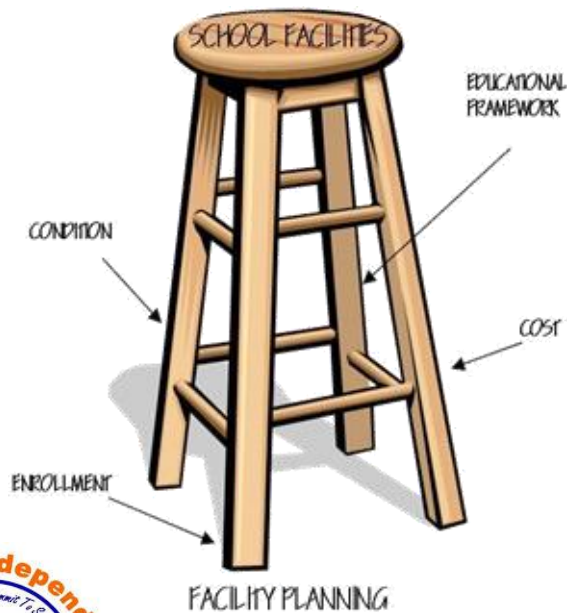
Extensive 21st Century School Visioning and Planning Experience

K12 Planning is all we do



Facilities Master Plan | DeJONG-RICHTER

The Facilities Master Plan



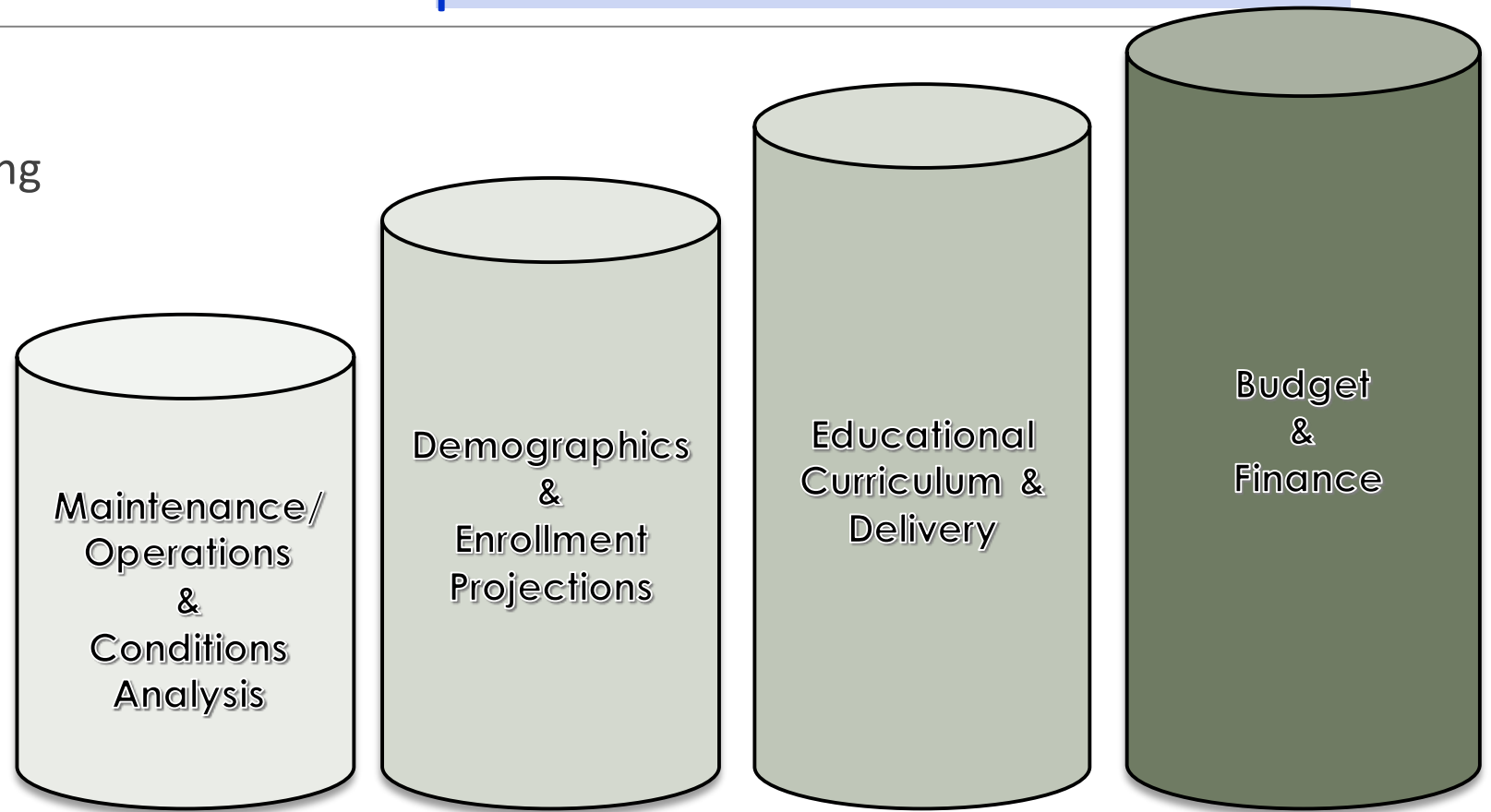
The Facilities Master Plan



Facilities Master Plan | DeJONG-RICHTER

The Facilities Master Plan:

Typical Silos of Decision Making



Facilities Master Plan | DeJONG-RICHTER

The Facilities Master Plan:
Challenges to a Master Plan

Trust
Turf
Tradition
Time
Transparency
Taxes

**Terrible
T's**



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The Facilities Master Plan:

Tools for Planning: Enrollment

	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
PK	439	442	461	474	526	577	496	506	525	536
K	3,642	3,581	3,455	3,357	3,300	3,504	3,596	3,718	3,614	3,588
1	3,616	3,650	3,654	3,505	3,432	3,397	3,542	3,646	3,818	3,729
2	3,199	3,446	3,541	3,545	3,505	3,475	3,475	3,571	3,685	3,922
3	3,408	3,240	3,414	3,566	3,610	3,743	3,804	3,845	4,002	4,249
4	3,279	3,260	3,150	3,279	3,454	3,512	3,455	3,474	3,464	3,548
5	3,219	3,124	3,133	3,052	3,257	3,474	3,541	3,499	3,534	3,582
6	2,989	3,213	3,182	3,187	3,159	3,424	3,602	3,626	3,599	3,563
7	3,230	2,986	3,203	3,181	3,254	3,242	3,484	3,626	3,666	3,653
8	3,179	3,173	2,929	3,206	3,148	3,295	3,284	3,605	3,645	3,783
9	3,878	4,106	3,934	3,614	3,629	3,682	3,710	3,729	3,875	3,660
10	3,257	3,188	3,120	3,163	2,964	3,162	3,150	3,260	3,254	3,587
11	2,782	2,704	2,893	2,892	2,995	2,818	3,010	2,998	3,159	3,176
12	2,430	2,409	2,448	2,517	2,602	2,710	2,516	2,815	2,775	3,025
Total	42,547	42,522	42,517	42,538	42,835	44,015	44,665	45,918	46,615	47,601



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What is the deliverable?

A report detailing a district's educational vision for the next 5+ years



Building off core values, beliefs and your best practices to envision future possibilities

- Envision future programs
- Envision future teaching & learning opportunities
- Envision technology, facility, curriculum and instruction changes to adopt and to avoid.

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Considerations impacting facilities planning

IMPORTANT: To make the most of these exercises you must consider how some current realities are likely to change in the upcoming 10+ years

- Standardized test requirements
- Job descriptions
- Cost of technology tools & infrastructure
- Budgets in general
- Norms for instructional practices



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Considerations impacting facilities planning

Nothing is more impactful for any educational planning, facilities or otherwise, than considering the current and future role of the teacher



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Considerations impacting facilities planning

Exercise:

Describe how teachers can best guide “the social process of learning” while using technology to help all students master concepts?



Source: Derek Muller, Veritasium, “This will revolutionize education”



Key Learning Variables | Scale & Time



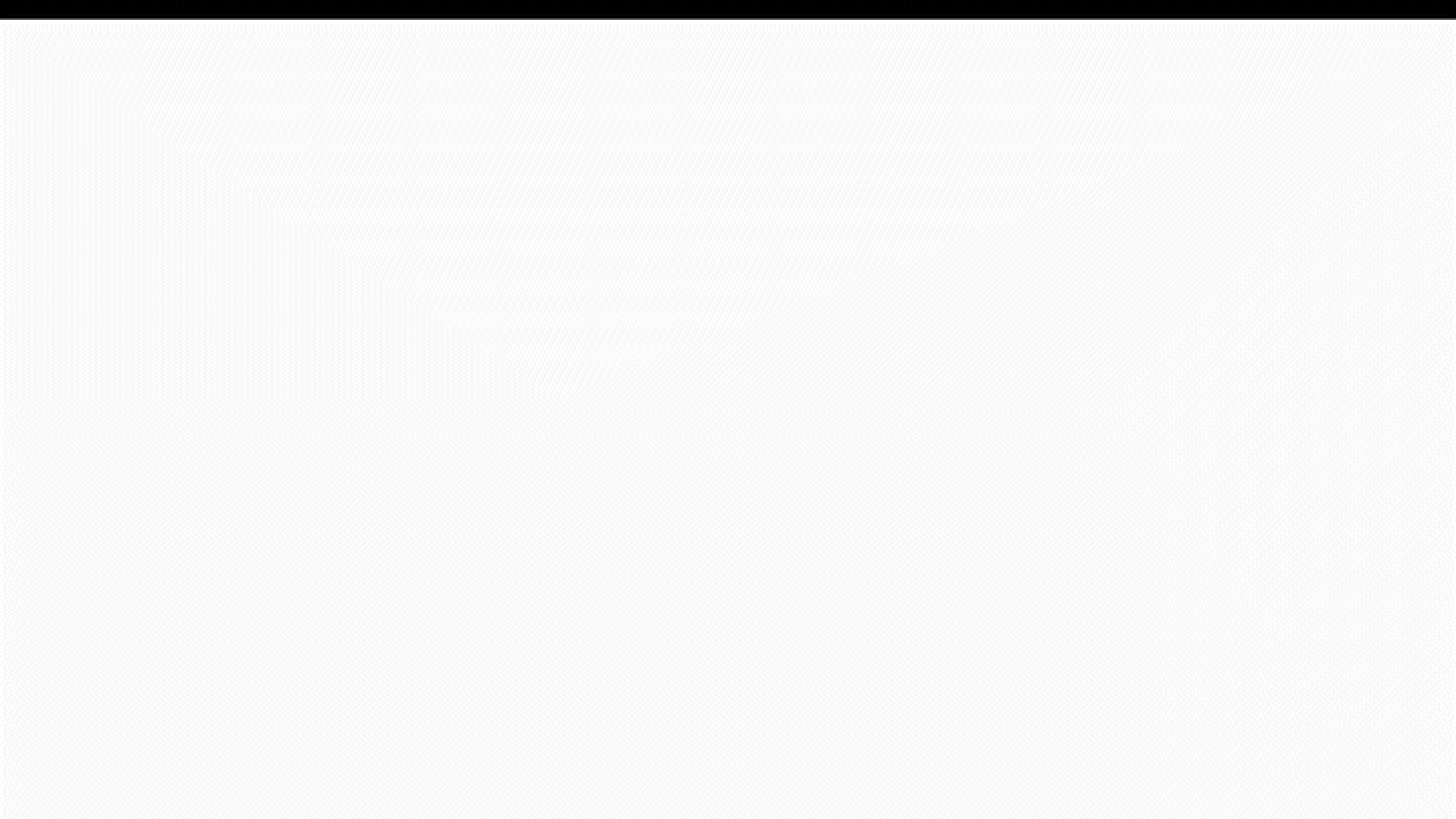
Skill & Scale

Time & Mastery

In traditional group settings, students have been less likely to receive instruction tailored to their needs than in personalized settings

If the time students have to learn a concept is fixed, learning will be the variable. If mastery is fixed, time will be the variable

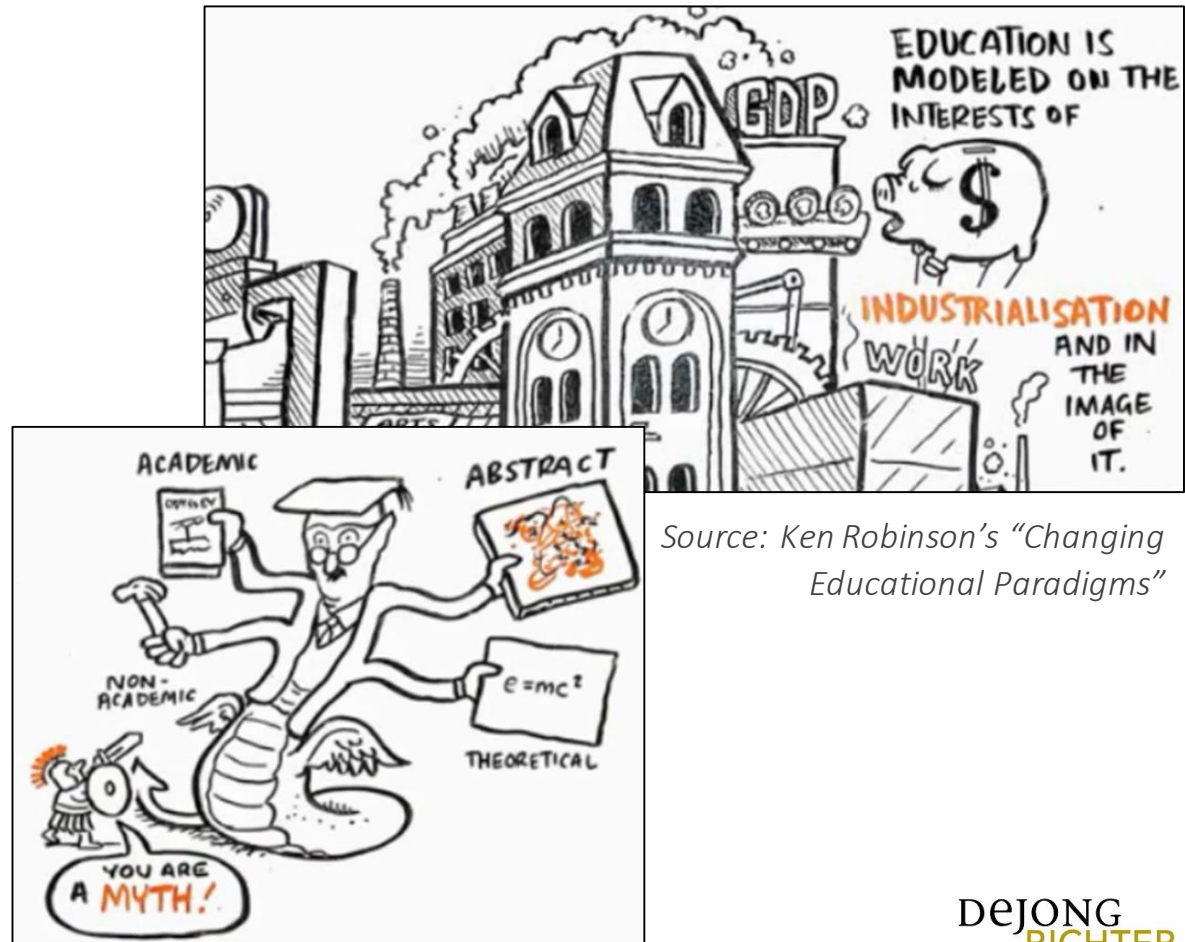




K12 Education | Industrial Model

Exercise:

If our K12 system was created from scratch today, what economic/social model would it follow? Describe the “habits and habitats” of this model.



Source: Ken Robinson's "Changing Educational Paradigms"



K12 Education | Mastery v. Time

Exercise:

Consider how you could change the following variables to allow students to master concepts at different paces:



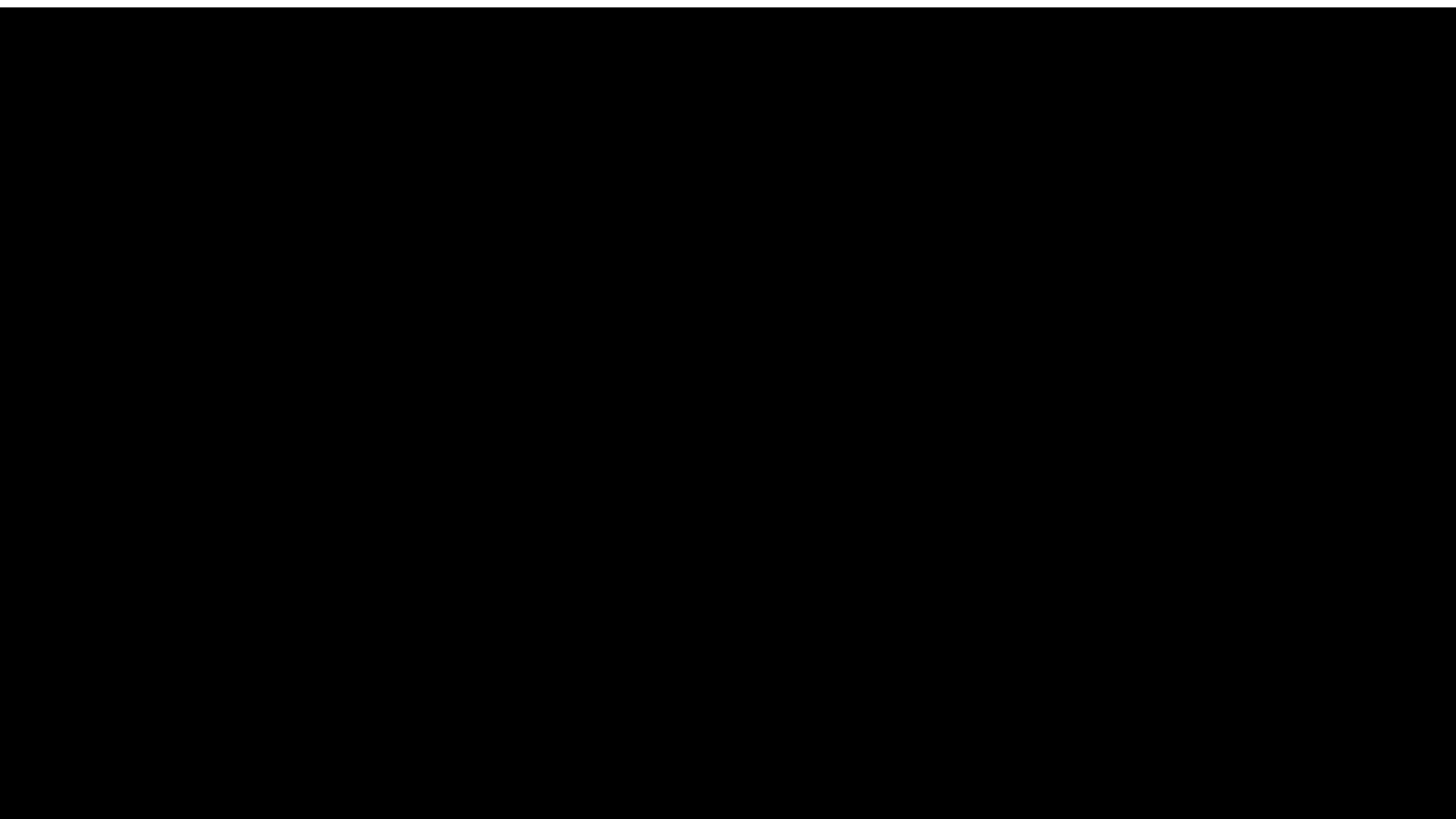
- **What defines a “grade”**
- **A weekly course schedule (e.g., fixed periods for every class, every week)**
- **When assessments are given and how they are used**



K12 Education | “The Third Teacher”

Challenging traditional factory model (2 videos)





K12 Education | Case Study

Exercise:

If you were to have the funds to redesign your classrooms, how would you do so and why?



Source: Trung Le, Architect, Cannon Design, "The Third Teacher"



Source: Jacobs Engineering project: Sarasota Public Schools, Florida



K12 Education | Skilled Trades

Preparing students for real opportunities



K12 Education | Skilled Trades

Exercise:

Describe the ideal methodologies for A) identifying careers where skilled trade positions are in demand and B) providing students high quality training for these positions.

Note: while tempting to dismiss this clip with statements like “don’t follow your passions”, consider his focus on identifying and training for current career opportunities



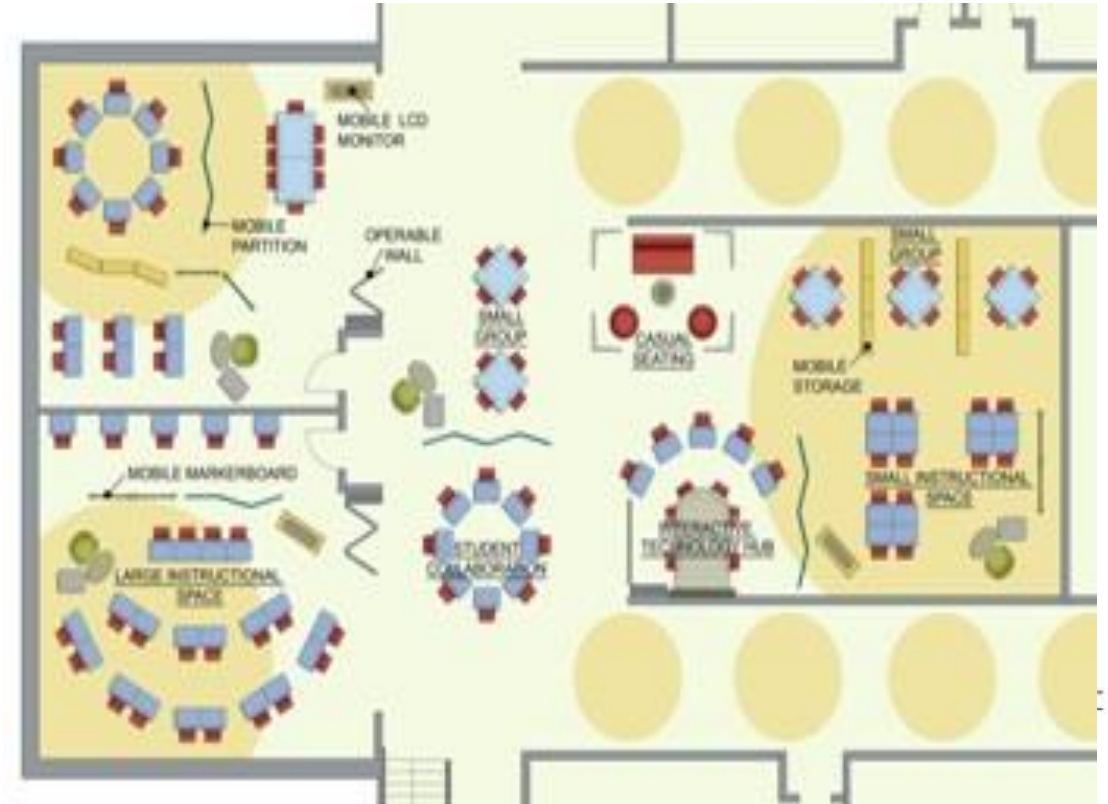
Source: CNN, *Somebody's Got to Do it*, with Mike Rowe

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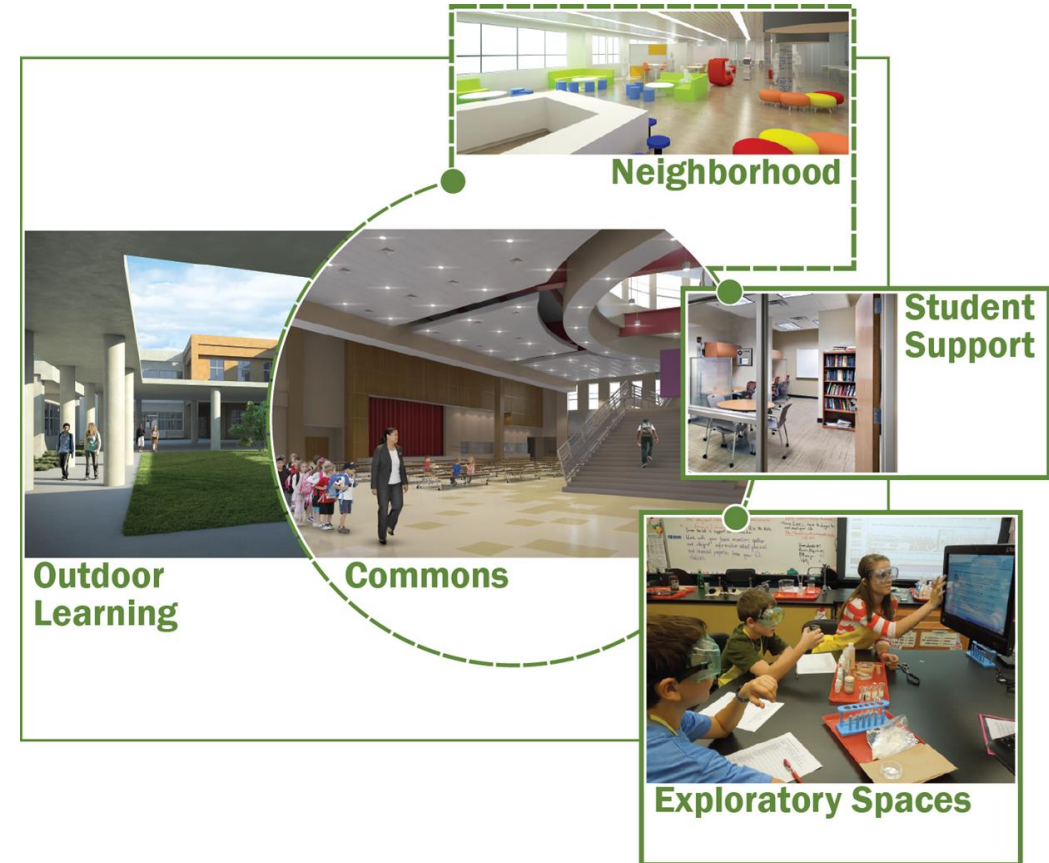
Modern Classrooms | Versatility

Kindergarten classrooms for big kids!



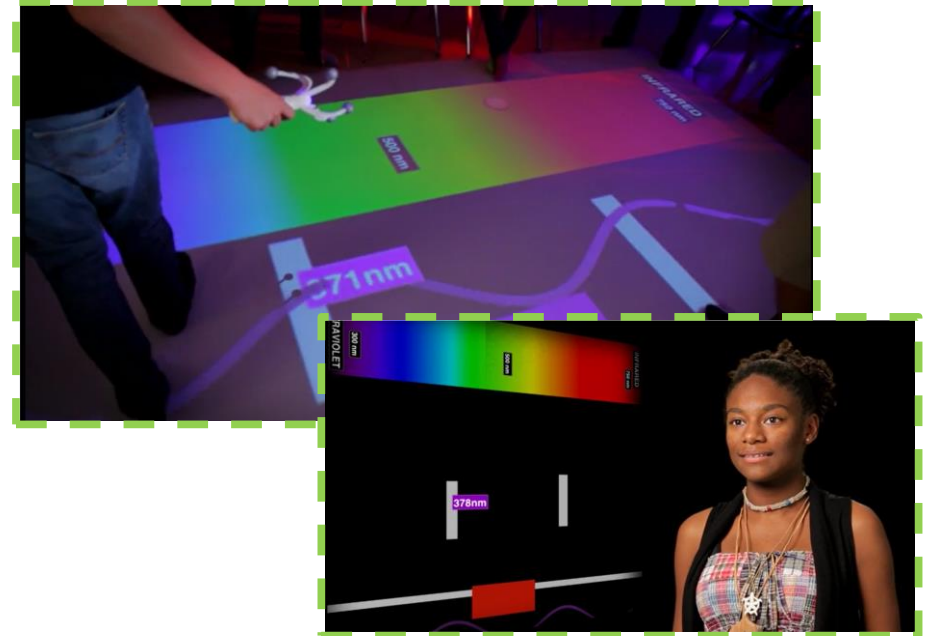
Modern Schools | Versatility

Multiple learning environments outside the classroom



Modern Tools | Versatility

Relevancy
Multisensory
Rewarding



Source: SMALLab,



Modern Athletics | Versatility

Multi-use, free-movement



The Vision | Envisioning the school of 2025

Exercise:

Using your responses to the thought experiments, describe a school in 2025 that functions according to your work today.

