



#### Creativity in School Building Design

Alberto Treves, Design Section Manager

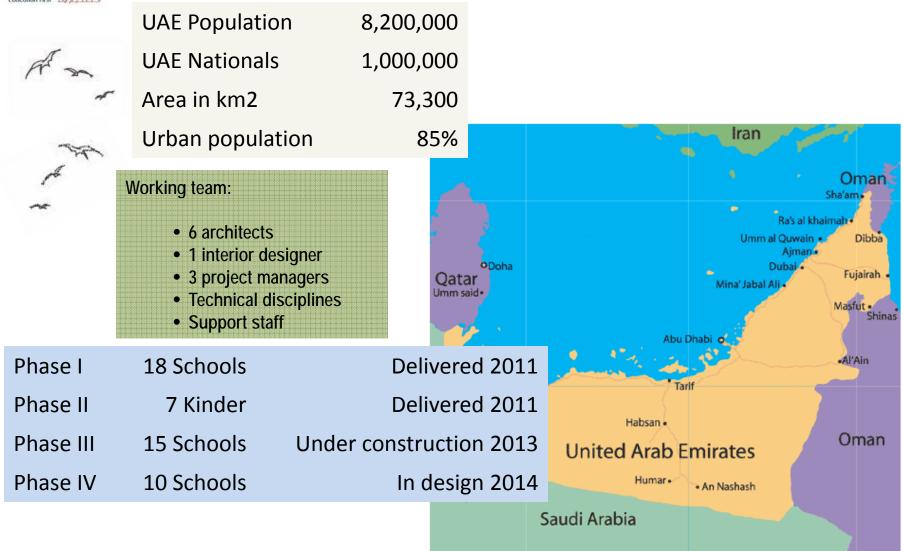
Abu Dhabi Education Council, Education First Alberto.Treves@adec.ac.ae

- 1- Work context
- 2- Methodology
- 3- Achievements

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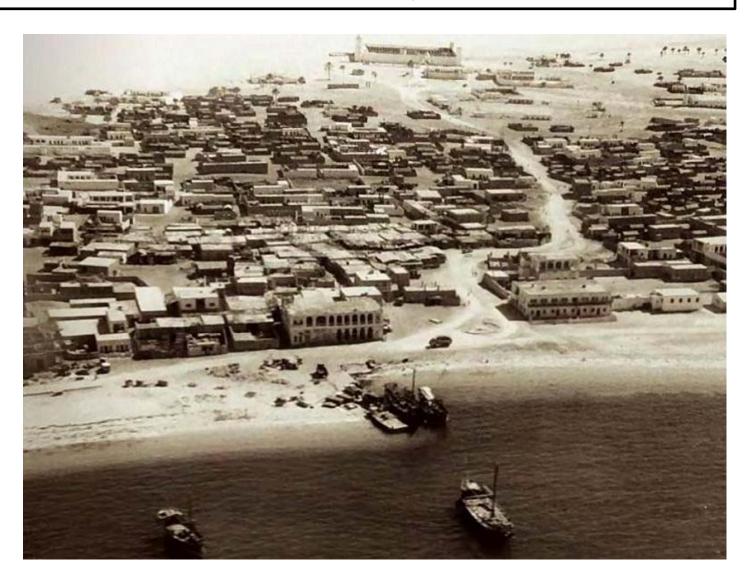
#### 1- Work context: Geography, statistics





#### 1- Work context: Old Abu Dhabi, 1960





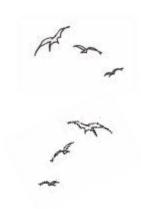


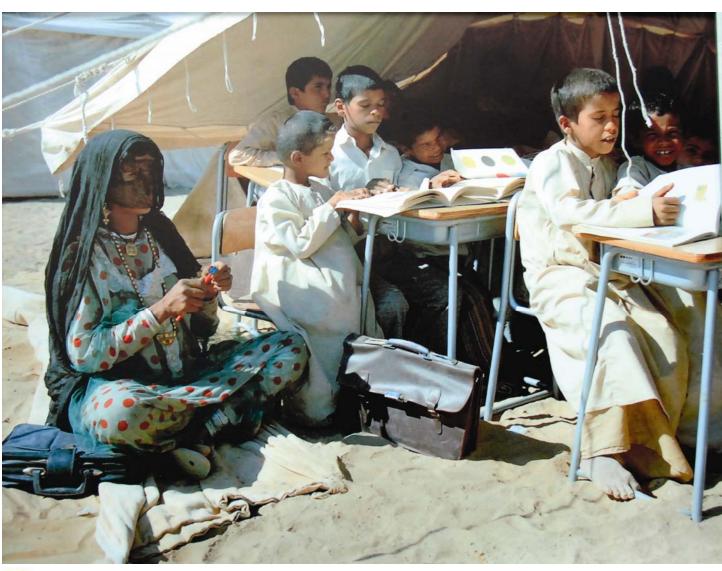
#### 1- Work context: Old Abu Dhabi, school 1960





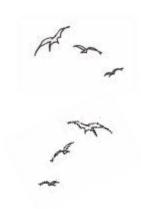
#### 1- Work context: Old Abu Dhabi, school 1960

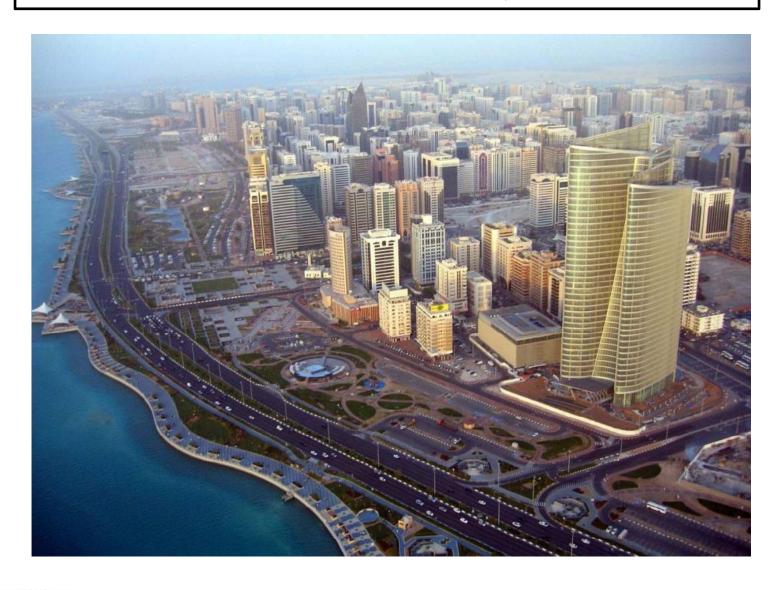






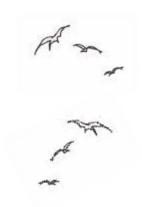
#### 1- Work context: The new Abu Dhabi, 2007

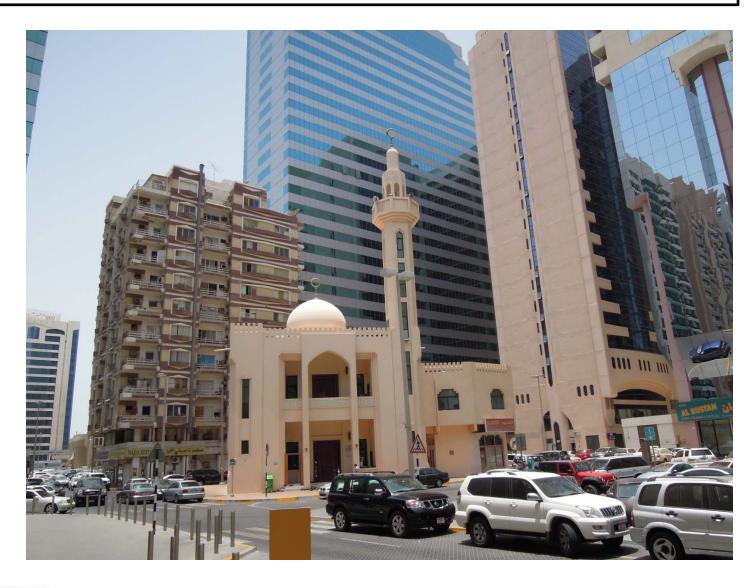






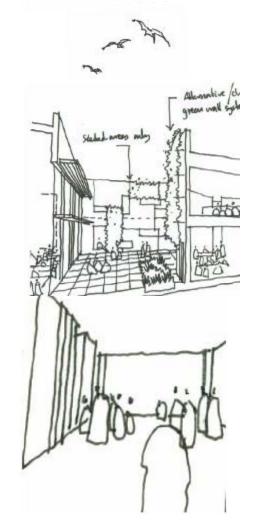
#### 1- Work context: the new Abu Dhabi, 2012







#### 1- Work contex: unattractive school entrance



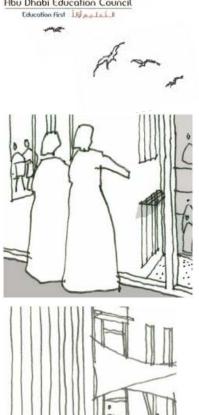




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#### 1- Work context: Long corridors organizing classrooms

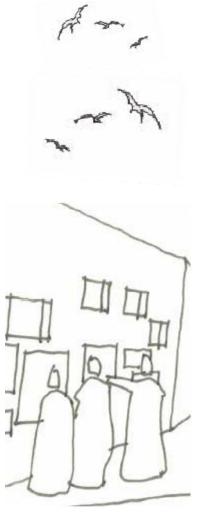




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#### 1- Work context: Un-interestig spaces





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#### 1- Work context: Overcrowding, obsolescence, inefficiency



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#### 2- Methodology: Starting points, initial decisions

- The spaces we create, condition individuals and support activities
- We can't be indifferent to what we see
- The quality of space influences educational outcomes
- Educational planning and physical planning should happen together
- Transformation should deep, quick, and bold
- Architecture should sustainable



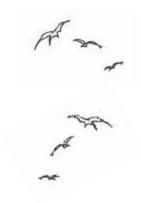
#### 2- Methodology: Starting points, initial decisions

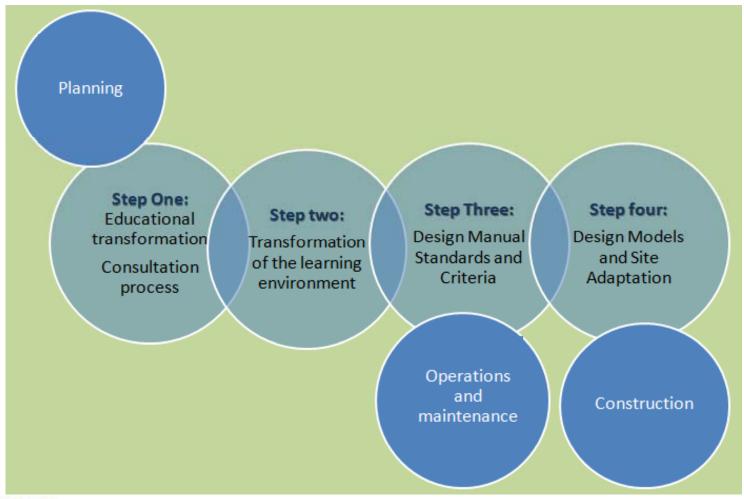


- The student is the center of the educational process
- Provide multiple opportunities of learning
- Make intense use of educational technology
- Integrate school and community activities
- Establish and follow a design method



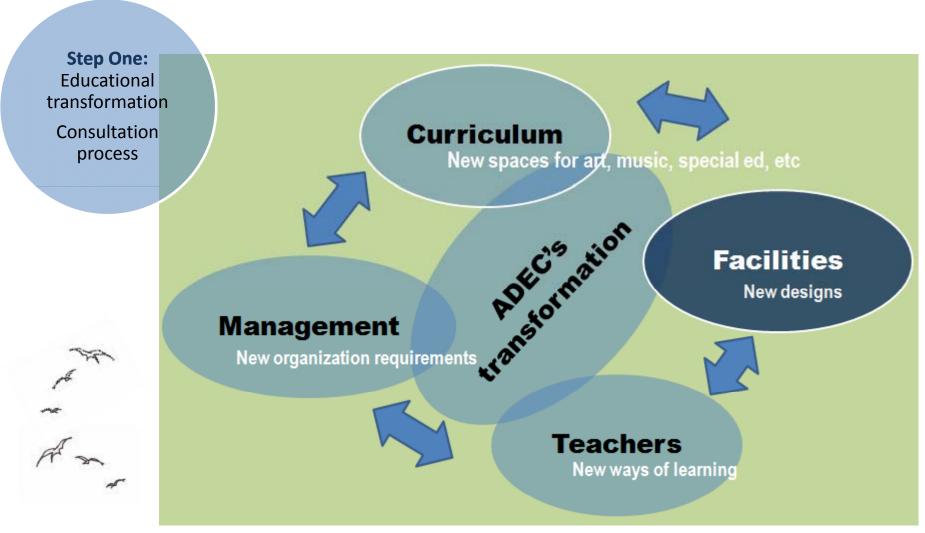
#### 2- Methodology: Four steps design process







#### 2- Methodology: Educational transformation





#### 2- Methodology: Consultation process

Step One:
Educational
transformation
Consultation
process













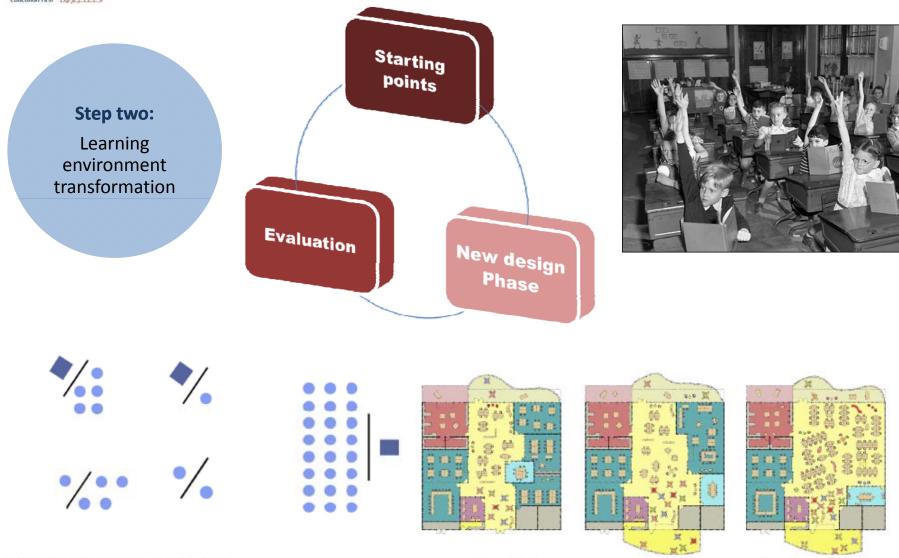




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#### 2- Methodology: Learning environment transformation



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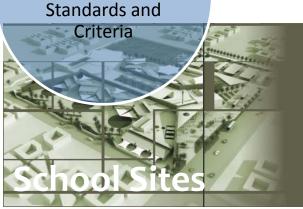


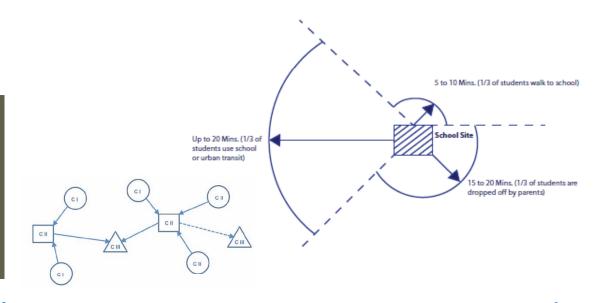
3- Methodology: Design Manual

#### **School Area of Influence**

#### **Step Three:**

**Design Manual** Standards and

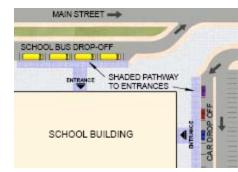




#### **School Type and Size**

Cycle	Cycle I		Cycle I + KG		Cycle II and III	
Kindergarten			240	320		
Number of students	625	1250	865	1570	875	1225
Gross area	9,900	18,000	12,500	22,600	14,300	18,200
Site area	20,400	30,400	23,800	36,000	23,800	30,400
Minumum site dimensions	170 x 120	190 x 160	170 x 140	200 x 180	170 x 140	190 x 160

### **Parking and Drop Off**



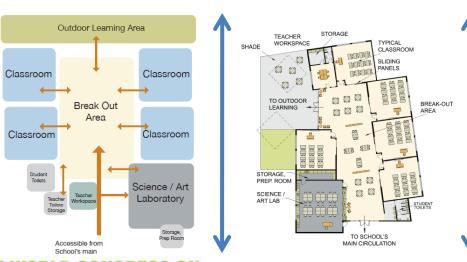


#### 3- Methodology: Design Manual

#### **Step Three:**

Design Manual Standards and Criteria





#### **Educational Program Analysis**

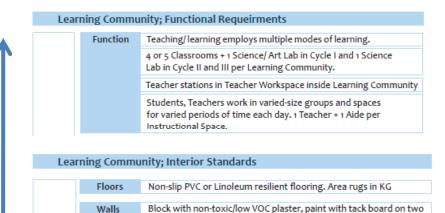
Number of periods per week taught in that room.

Number of groups/ sections taking that class

Number of periods per week that the room is available.

X Number of groups/ sections taking that class

Utilization Factor



walls. Opaque operable walls to be vinyl. Double pane, transparent

Prefer no drop ceiling. Acoustic ceiling, 3m in height, minimum. In-

glass operable walls with metal frames in certain options.

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Ceilings

direct lighting.



#### 3- Methodology: Design Models, site adaptation - KG





#### 3- Methodology: Design Models, site adaptation - C I

#### **Step four:**

Design Models and Site Adaptation









#### 3- Methodology: Design Models, site adaptation - C II, III

#### **Step four:**

Design Models and Site Adaptation











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#### 3- Achievements: Cultural integration



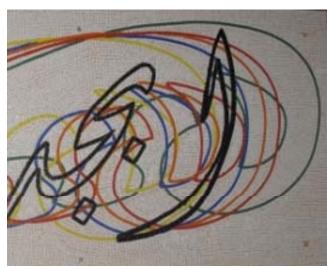


#### 3- Achievements: Cultural integration









#### 3- Achievements: Shaded intermediary spaces





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#### 3- Achievements: : Attractive colors





# 3- Achievements: Incorporation of art





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# 3- Achievements: Incorporation of art







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#### 3- Achievements: Relevance of main entrance





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#### 3- Achievements: Concept of learning community





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#### 3- Achievements: Classroom and outside learning





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## 3- Achievements: Sustainability





#### 3- Achievements: Relationship with nature





#### 3- Achievements: School use after hours







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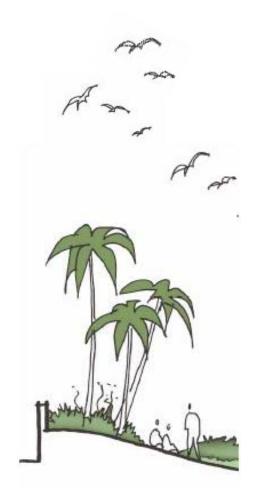




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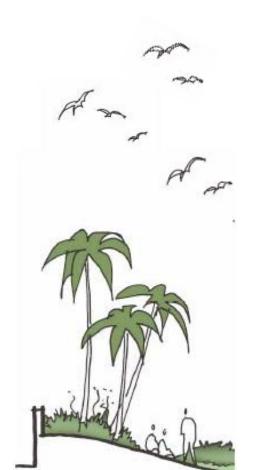
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# Think bigCreate alliancesAct fast

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# Thank you and stay in touch!!!

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