A CREATIVE COLLABORATION TO DESIGN INNOVATIVE LEARNING SPACES

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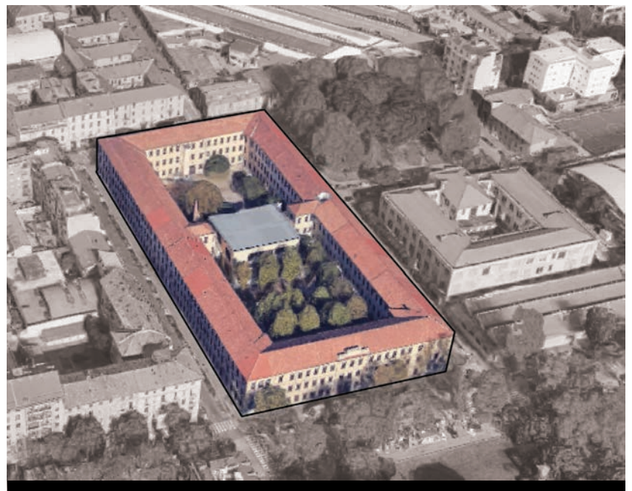
...AN ITALIAN CASE

CASE STUDY

MIDDLE SCHOOL CIRESOLA_MILANO

RIGID and SERIAL STRUCTURE

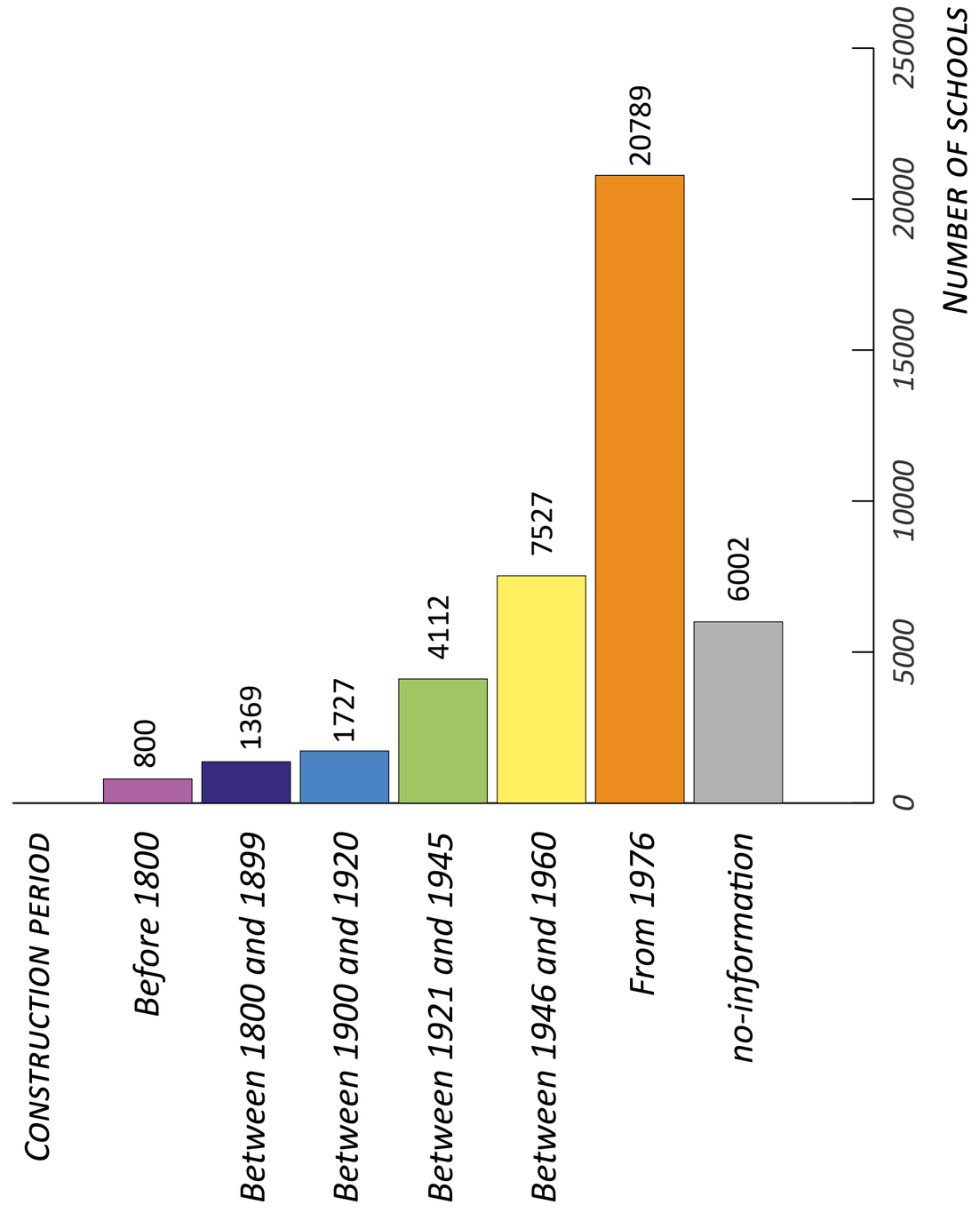
ELEMENTARY SCHOOL MANDELLI_MILANO



MIDDLE SCHOOL P. THOUAR E L. GONZAGA_MILANO

ELEMENTARY SCHOOL FRATELLI RUFFINI_MILANO

MIDDLE SCHOOL GIUSEPPE VERDI_MILANO



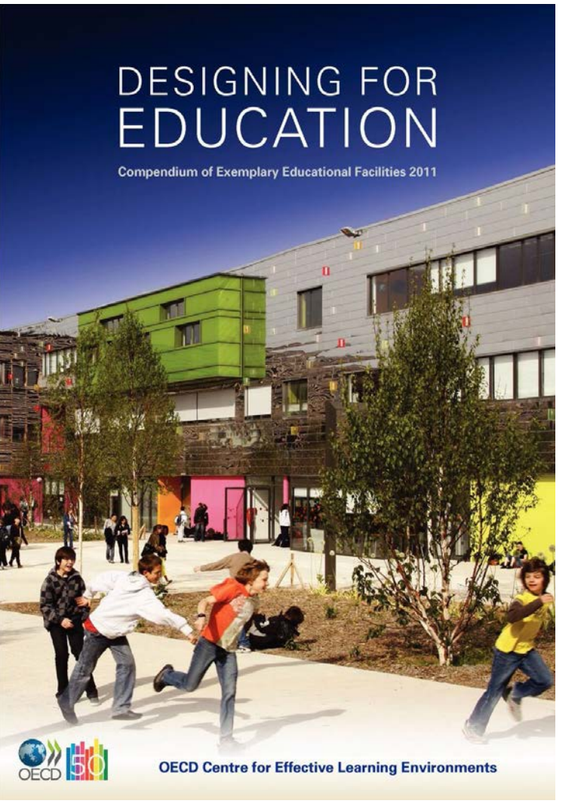
DATA SOURCE:

Ministero dell'Istruzione, dell'Università e della Ricerca_Portale Unico dei Dati della Scuola

[PUBLICATION: 27 SEPTEMBER 2018]

http://dati.istruzione.it/opendata/opendata/catalogo/elements1/leaf/?datasetId=DS0230EDIETAORIGINESTA

SOME REFERENCES



BIBLIOGRAPHY

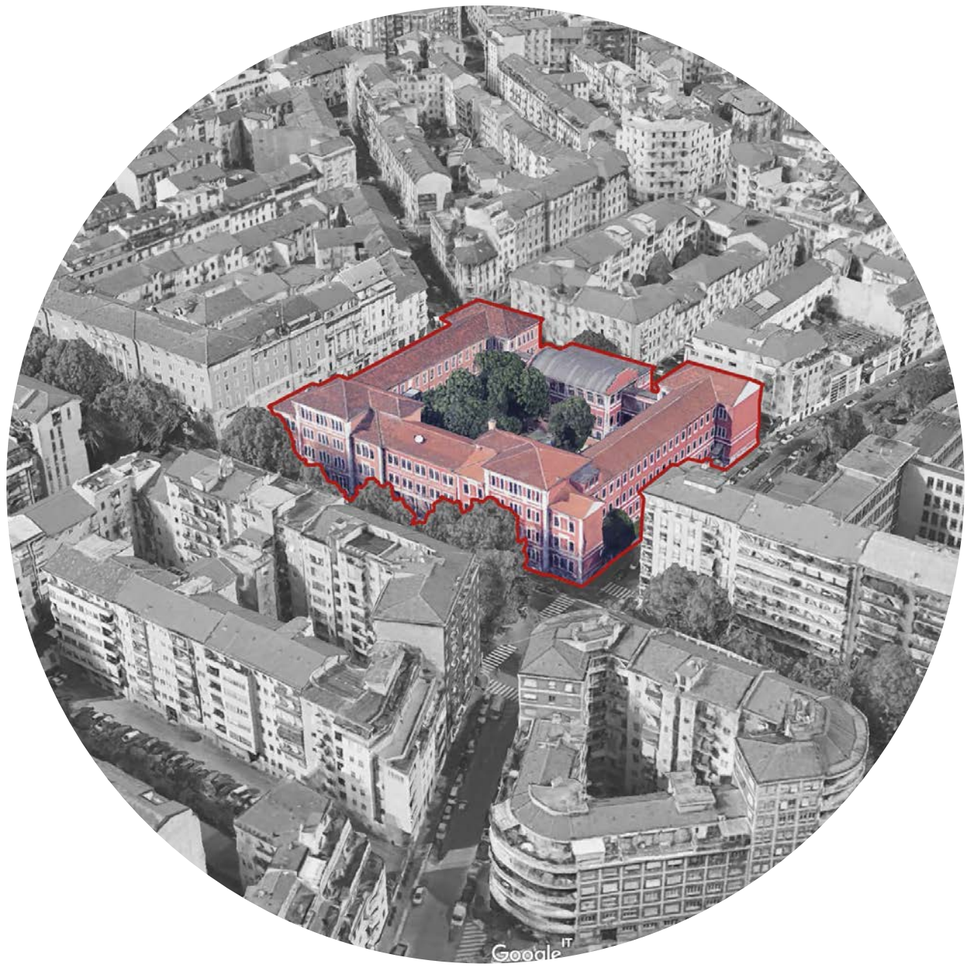
CASE STUDIES

YANA STEPCHENKO, Toronto
+ Re-branding Toronto Highschools

Bondeno [FE]
IC T. Bonati

Modena
IC Mattarella

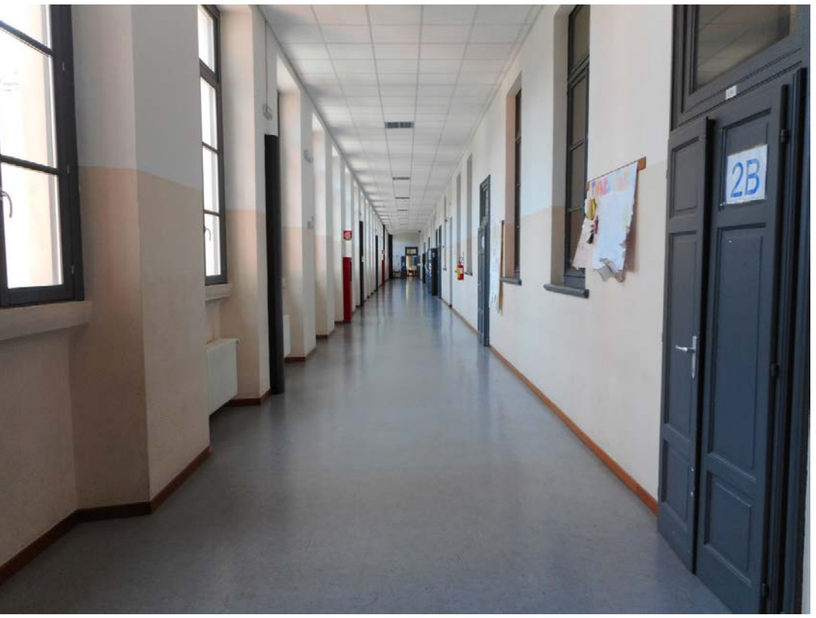
CASE STUDY

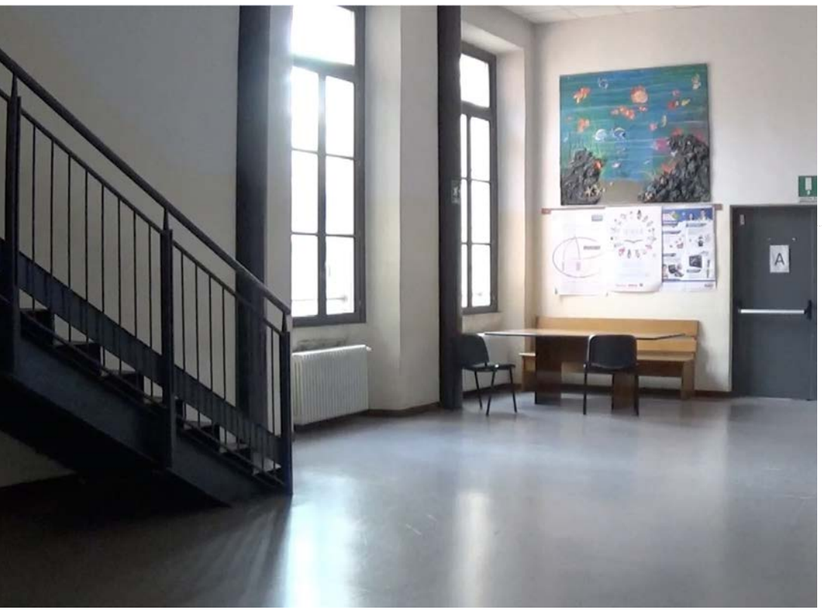


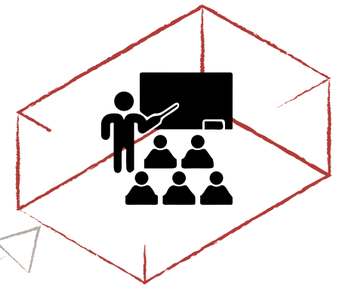
LANDMARK
in the neighbourhood

LACK of CARE
for the indoor spaces

100-YEAR-OLD BUILDING



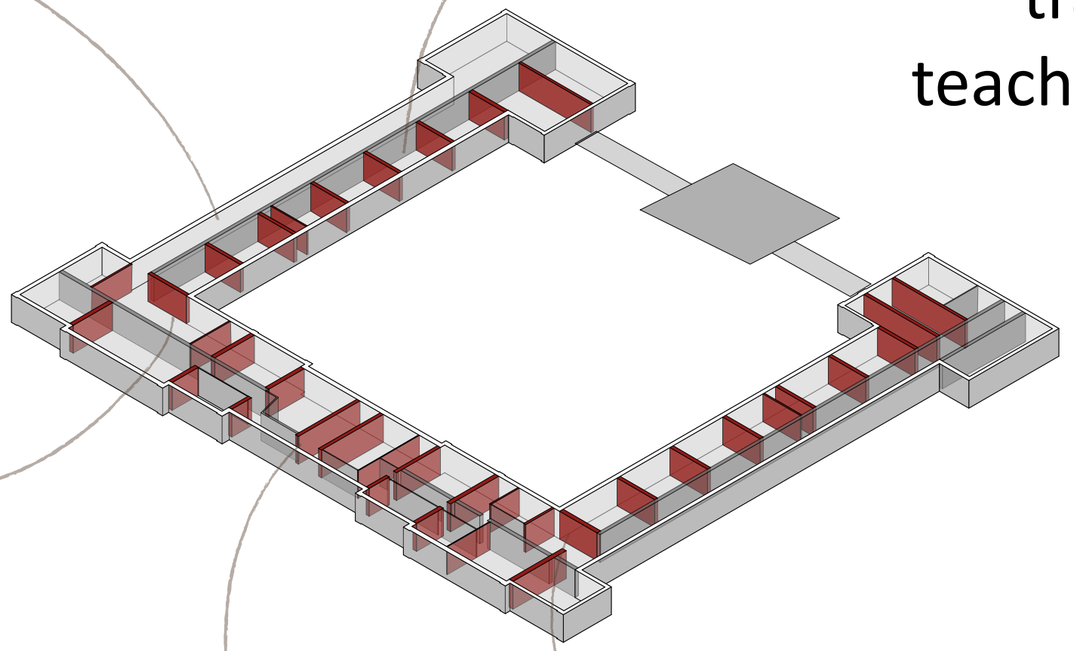




RIGID STRUCTURE

↓

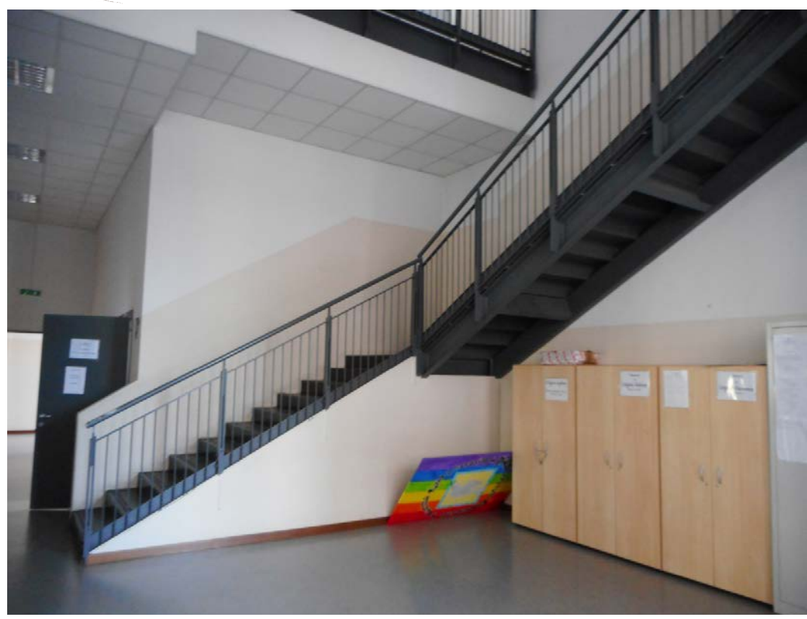
traditional
teaching methods



ANONYMOUS SPACES

↓

- impersonal
- disorientation
- no attachment



AN ONGOING RENEWAL PROCESS

NEED FOR RENOVATION

START

of a participatory process

2016 — 2017 — 2018 — NOW

- Design area
- Aim
- Guidelines

Choice of the design proposals

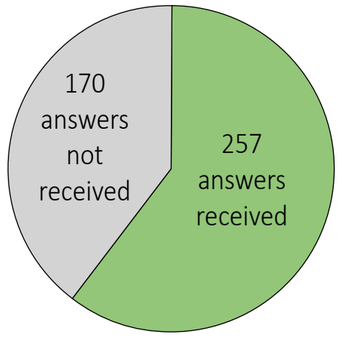
	On-site inspection	Focus group	Survey	Survey	Data analysis	Focus group	On-site inspection	Behaviour analysis	Design proposals	Focus group	Design project
AMBIENTESCUOLA RESEARCH GROUP Politecnico di Milano University of Milano Bicocca	●	●			●	●	●	●	●	◉	◉
TEACHERS		●	●			●				◉	
STUDENTS 11-14 years-old		●	●	●						◉	

DIFFICULTIES

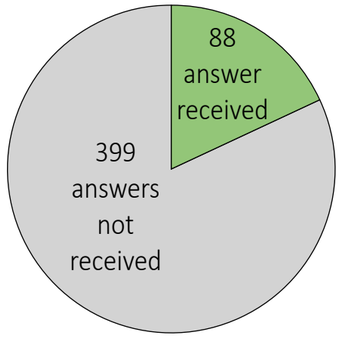
- rigid building structure
- some teachers are not open to change
- difficulty in involving the students as active participants

THE STUDENTS' VOICE

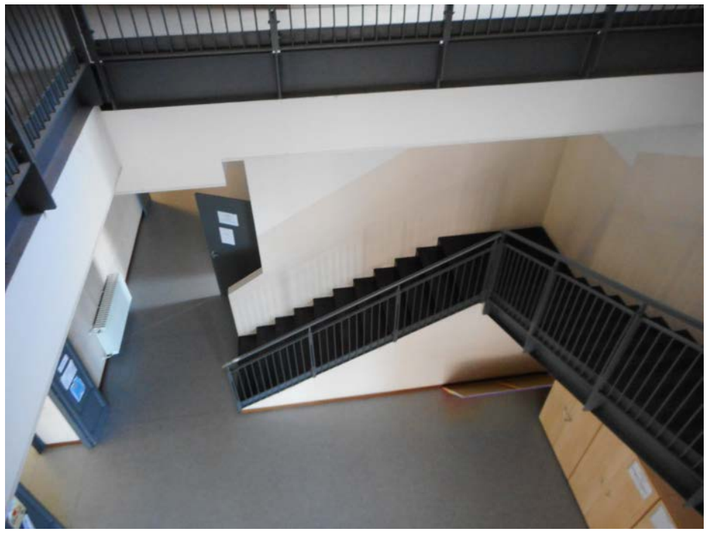
SURVEY
"BACK TO SCHOOL"_2016



SURVEY
"BEYOND THE CLASSROOM"_2017



what they have...



SCOTCH OAKBURN COLLEGE MIDDLE SCHOOL_TASMANIA

...what they would like

Spaces for studying
Spaces for team work
Recreational space
Relax area

Student survey_2016

Change unused spaces to create something different and original

Student survey_2016

Drawings and colors in the corridors to make them more beautiful

Student survey_2016

PROBLEMS & NEEDS

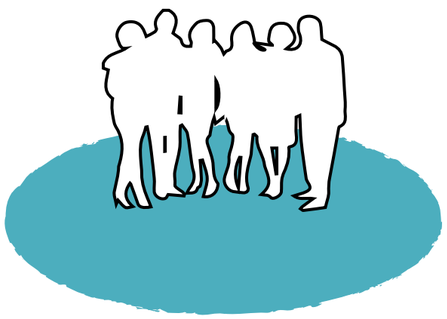
- Overcrowded classrooms
- Little use of the library
- Little use of the laboratory classrooms
- Difficulties in the orientation
- Wish to give more character to the indoor spaces
- Wish to use the common spaces after the school hours

DESIGN AREAS

- Overcrowded classrooms
- Little use of the library
- Little use of the laboratory classrooms
- Difficulties in the orientation
- Wish to give more character to the indoor spaces
- Wish to use the common spaces after the school hours

Not everyone agrees to change the teaching method

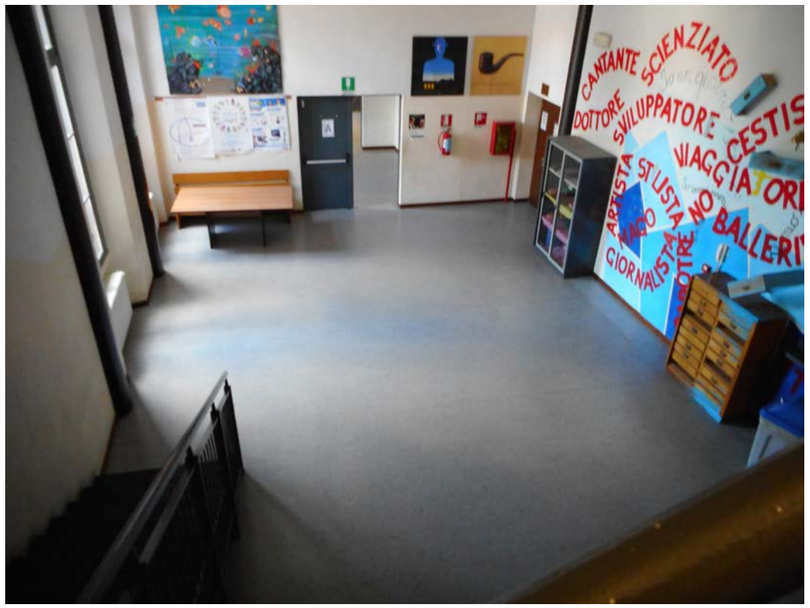
Focus group_April 2018

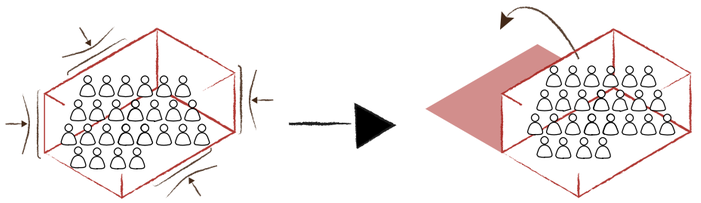


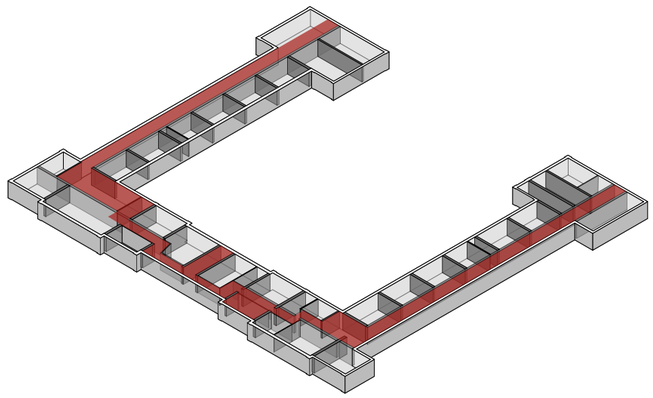
OUTSIDE THE CLASSROOM

Halls & hallways:

BROAD AND EMPTY SPACES

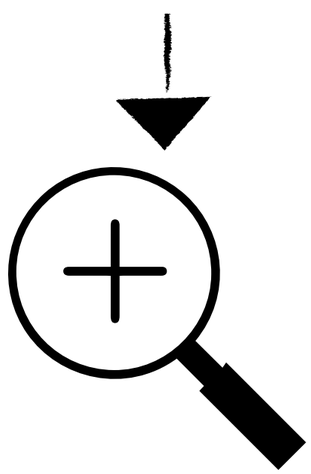




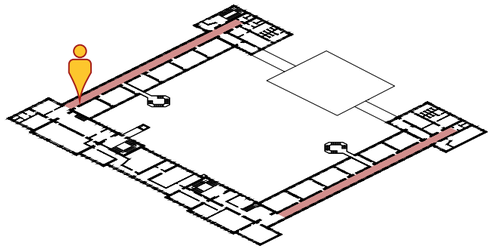


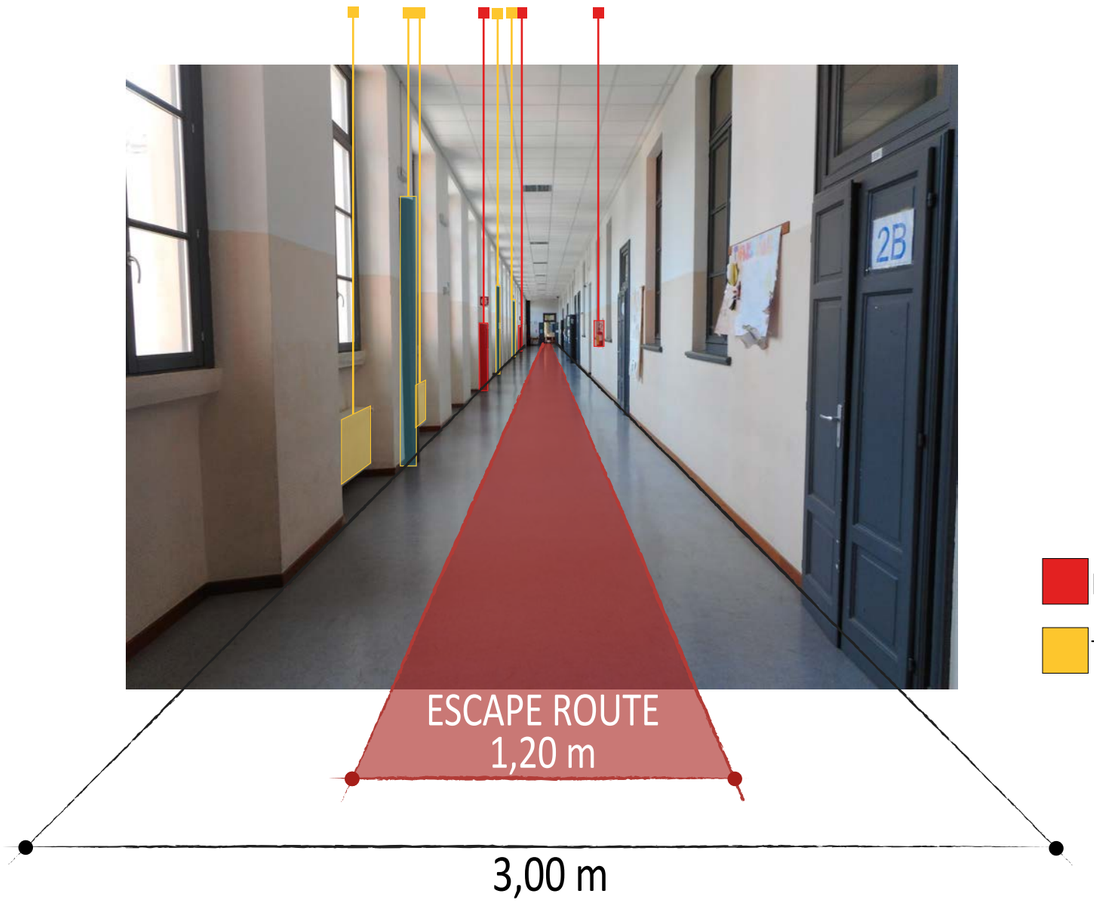
INTRODUCTION OF NEW FUNCTIONS

- space for individual studying
- space for team projects
- reading corners
- relax area
- informal spaces



HALLWAYS





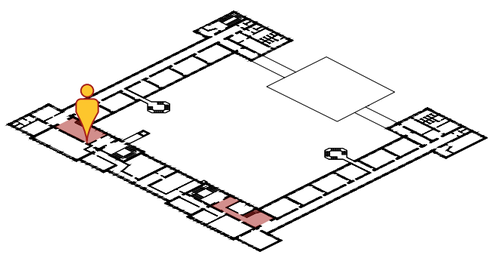
FIRE EXTINGUISHING SYSTEMS

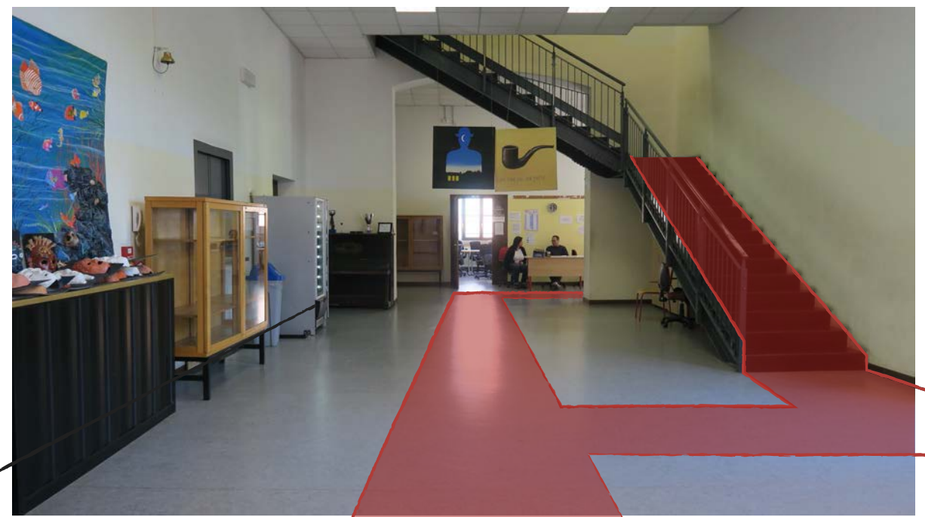
TECHNICAL INSTALLATIONS

10 MINUTES BREAK-TIME

- standing near the windows
- walking down the hallway
- staying inside the classroom

HALLS





ESCAPE ROUTE
1,20 m

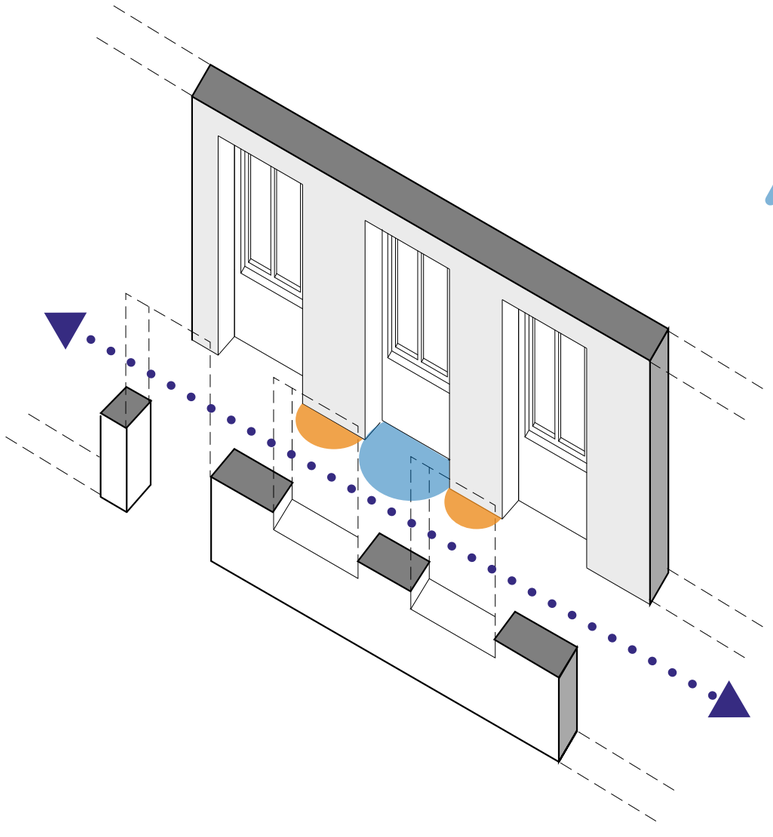
3,00 m

10 MINUTES BREAK-TIME

- standing near the windows
- staying under the staircase
- sitting on the steps

UNUSED TABLE

DESIGN PROPOSALS



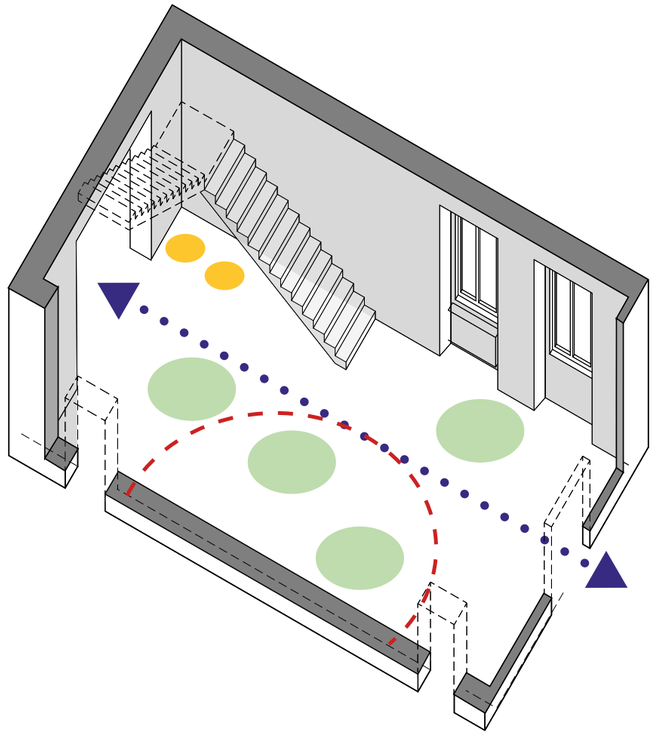
Reading corner

Individual study

Bench

Lockers

Bookshelves



Individual space

Work in group

Informal lessons

GAVIN HUGHES, London
Primary School

GAVIN HUGHES, London
Primary School

LIN - ARCHITECTS URBANISTS, Berlin
Primary School

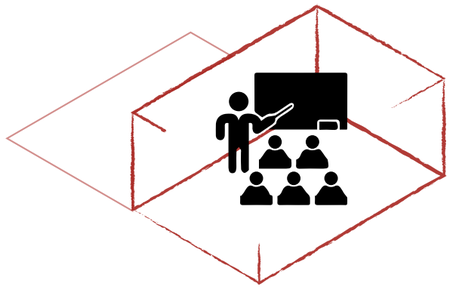
FLEXIBILITY

↓

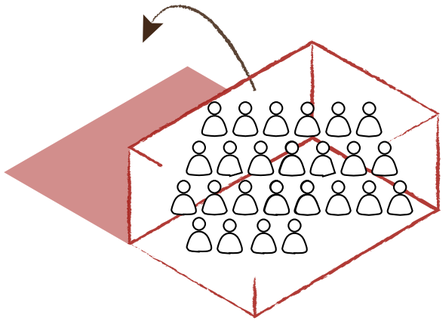
different usage patterns

for the same space

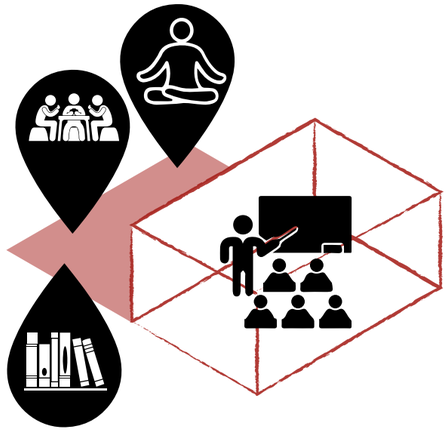
A PROSPECT FOR THE FUTURE...



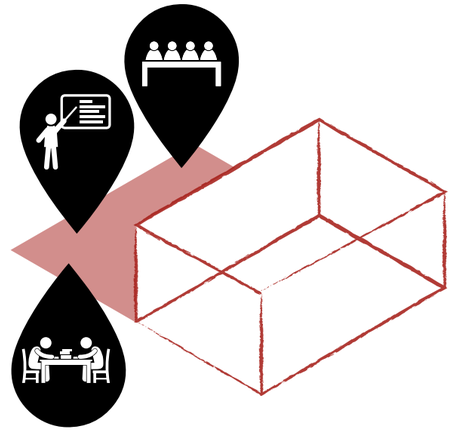
- Traditional classroom
- Empty common spaces



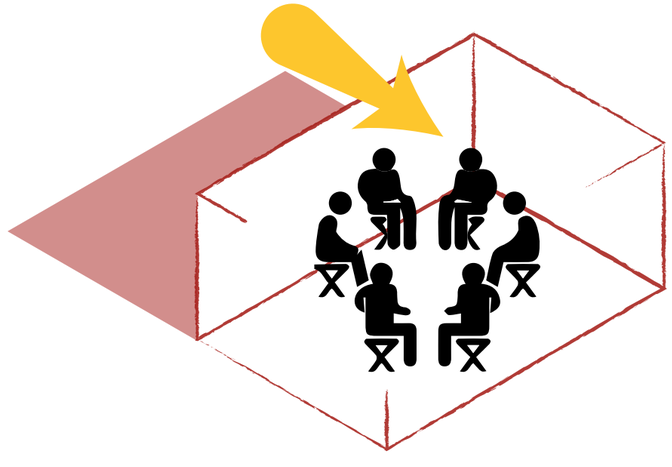
OPPORTUNITY GIVEN BY THE COMMON SPACES



COMMON SPACES: informal setting



COMMON SPACE: used during the lessons hours



- Dynamic classroom
- Use of the common spaces

Thank you for your attention

Contacts

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