

# **Hack the School**

## **A creative toolkit to transform school spaces and communities**

Innovative Learning Environments and Teacher Change

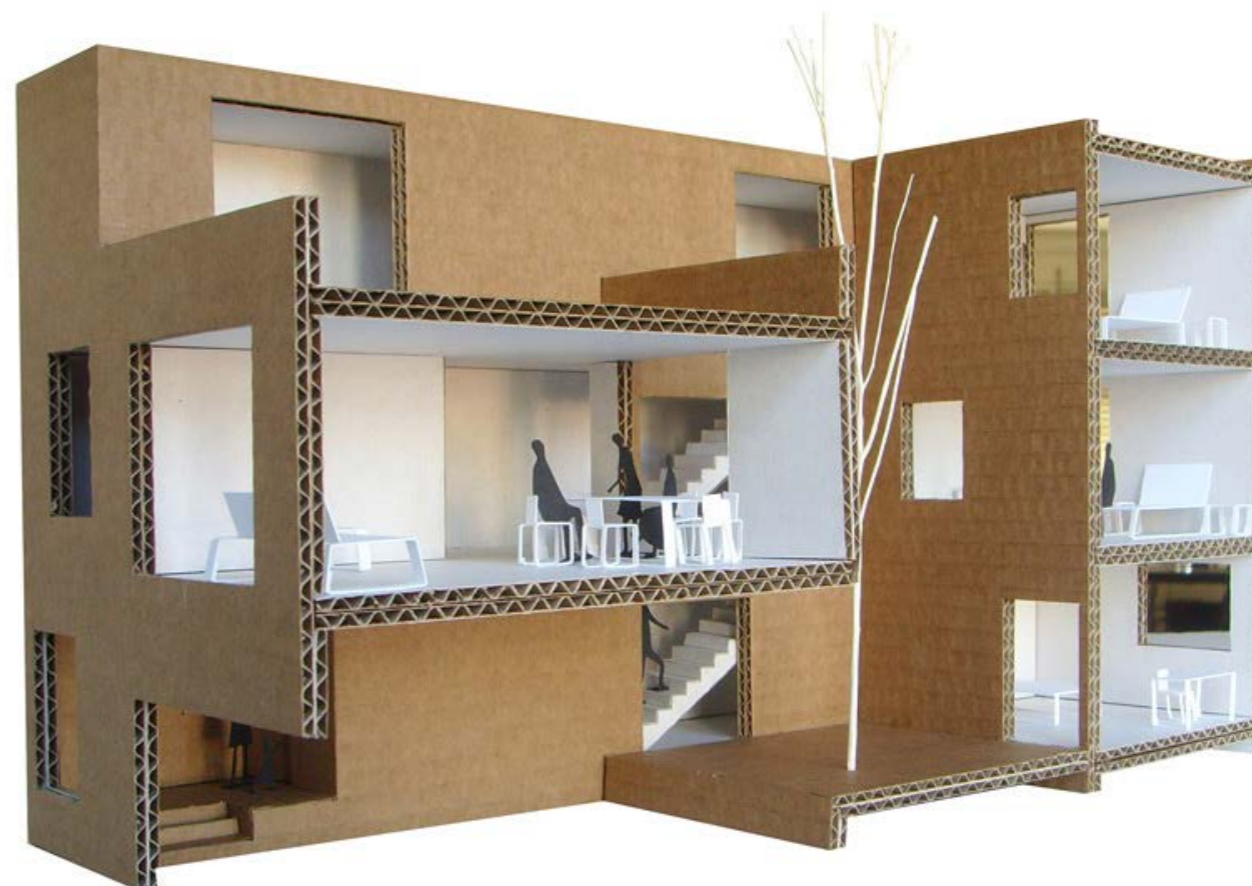
Transitions Research Symposium London

Esther Belvis - Pedagogue and Artist

Silvia Sasot - Architect



**pedagogue and artist**



**architect**

# HISTORY

**1914-25 Mancomunitat Catalunya**

1923-30 P Rivera Dictatorship

1931-36 2nd Spanish Republic

1936-39 Civil War

1939-75 Franco Dictatorship

1975-78 The Transition

**1978 Spanish Constitution**

1985 Spain member of EU

2007 Global Economic Crisis

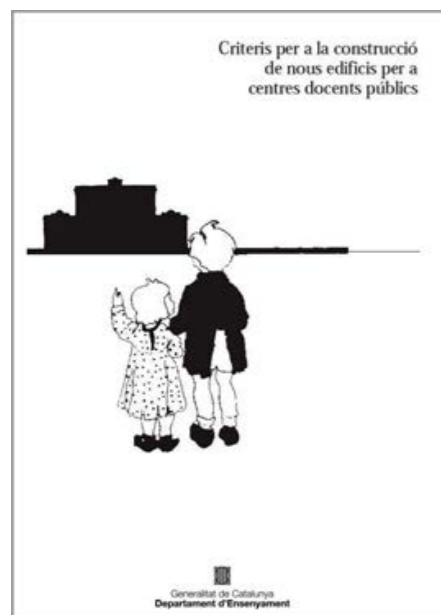
**2015 Education ??**



# SPANISH SCHOOL SPACE REGULATIONS 1971-2017

	CONCEPT	CHILD EDUCATION (3-5years old)	PRIMARY EDUCATION (6-11years)	SECONDARY EDUCATION (12-16years)
Real Decreto 132/2010	classroom	mín 2m <sup>2</sup> / SP    max 25 students	mín 1,5m <sup>2</sup> / SP    max 25 students	mín 1,5m <sup>2</sup> / SP    max 30 students
Real Decreto 1004/1991	classroom	2m <sup>2</sup> / SP    max 25 students	1,5m <sup>2</sup> / SP    max 25 students	1,5m <sup>2</sup> / SP    max 30 students
	CONCEPT	PRE-SCHOOL	BASIC GENERAL EDUCATION	BACHELORSHIP
Orden de 22 de mayo 1978	classroom	1,5m <sup>2</sup> / student    -	1,5m <sup>2</sup> / student    max 25 students	-    -
Orden de 30 de diciembre de 1971	teaching area	mín 1,3m <sup>2</sup> / SP*    40 students / 1 teacher	mín 1,5m <sup>2</sup> / SP    40 students / 1 teacher	mín 1,4m <sup>2</sup> / SP    32 students / 1 teacher

**RATIO m<sup>2</sup>/ SCHOOL POSITION (SP)**



## CATALAN CONSTRUCTION CRITERIA FOR NEW PUBLIC SCHOOLS

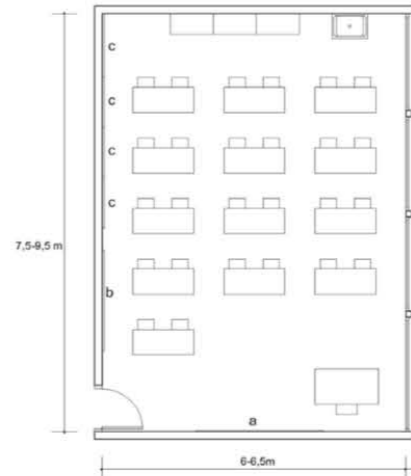
Construction and functional approach to school design

No reference to people and to the learning processes

School Community do not participate in the process

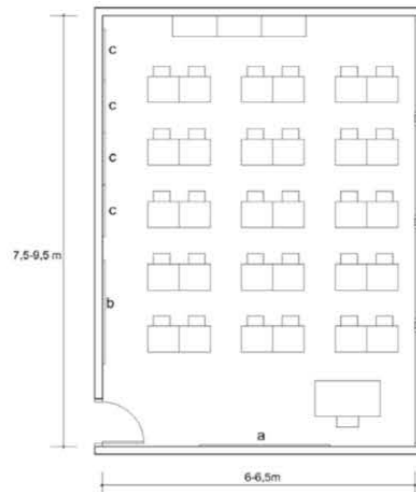
**PROGRAMA NECESSITATS CENTRE D' EDUCACIÓ INFANTIL I PRIMÀRIA 2 LÍNIES**

**Aula de primària**  
**Aula específica**  
**Aula complementària** 01.01.03



Funció	Dimensions
Aula de cicle inicial, mitjà i superior	Amplada 7,5 - 9,5 m Profunditat 6 - 6,5 m Superfície 50 m <sup>2</sup>

**Aula d'ESO**  
**Aula complementària** 01.01.05



Funció	Dimensions
Aula de secundària	Amplada 6 - 6,5 m Profunditat 7,5 - 9,5 m Superfície 52,50 m <sup>2</sup>

CENTRE ESCOLA	2L
Nombre d'alumnes	450

	nombre	m2	total m2	observacions
<b>EDUCACIÓ INFANTIL</b>				
Aula infantil	6	55	330	Incorporar aula exterior
Lavabos	6	5	30	Incorporats a l'aula
Aula psicomotricitat	1	55	55	Magatzem (4m2)/Enfosquiment
Tutoria	1	10	10	
Magatzem	1	10	10	
Lavabo mestres	1	5	5	Amb vestidor i dutxa

<b>EDUCACIÓ PRIMÀRIA</b>				
Aula	12	50	600	
Aula desdoblament	2	25	50	Contigües 2 a 2
Aula recolzament/reforç	2	25	50	
Aula específica	1	50	50	Insonoritzada
Aula informàtica	1	50	50	Protecció davant intrusió/Control solar
Aula complementària	1	50	50	
Biblioteca	1	45	45	Previsió accés extern
Magatzem	1	30	30	Diferents espais repartits
Lavabo adaptat/Professorat	N	5	5	Un per planta
Lavabos alumnes	1	45	45	Vegeu esquema

Sala gran Gimnàs	1	200	200	Alçada 4,5m. Accés extern/Enfosquiment
Escenari	1	30	30	
Magatzem	2	15	30	
Vestidors	1	90	90	Instal.lacions independents

<b>ADMINISTRACIÓ</b>				
Direcció	1	15	15	
Cap d'estudis	1	10	10	
Secretaria	1	30	30	Arxiu protegit (4m2)
Despatx/Tutoria	2	10	20	
Despatx professional extern	1	10	10	
Sala de professorat	1	60	60	
Lavabos professorat	2	5	10	Un per sexe
AMPA	1	15	15	Accés independent
Consergeria-reprografia	1	10	10	Espai ventilat exterior

<b>ALTRES SERVEIS</b>				
Menjador	1	150	150	1m2/comensal i 2 torns, fàcil ampliació
Cuina	1	65+5	70	Fàcil accés vehicles, inclou vestidor PND
Lavabos-vestidor PND	1	6	6	
Instal.lacions	1	25	25	
Local tècnic (Rack)	1	5	5	
Computadors	1	5	5	
Neteja	N	3	3	Un per planta amb abocador
Escombraries	1	10	10	Contacte amb ext. (5m2 cuina-5m2 pati)
Ascensor	1	5	5	Apte persona mobilitat reduïda

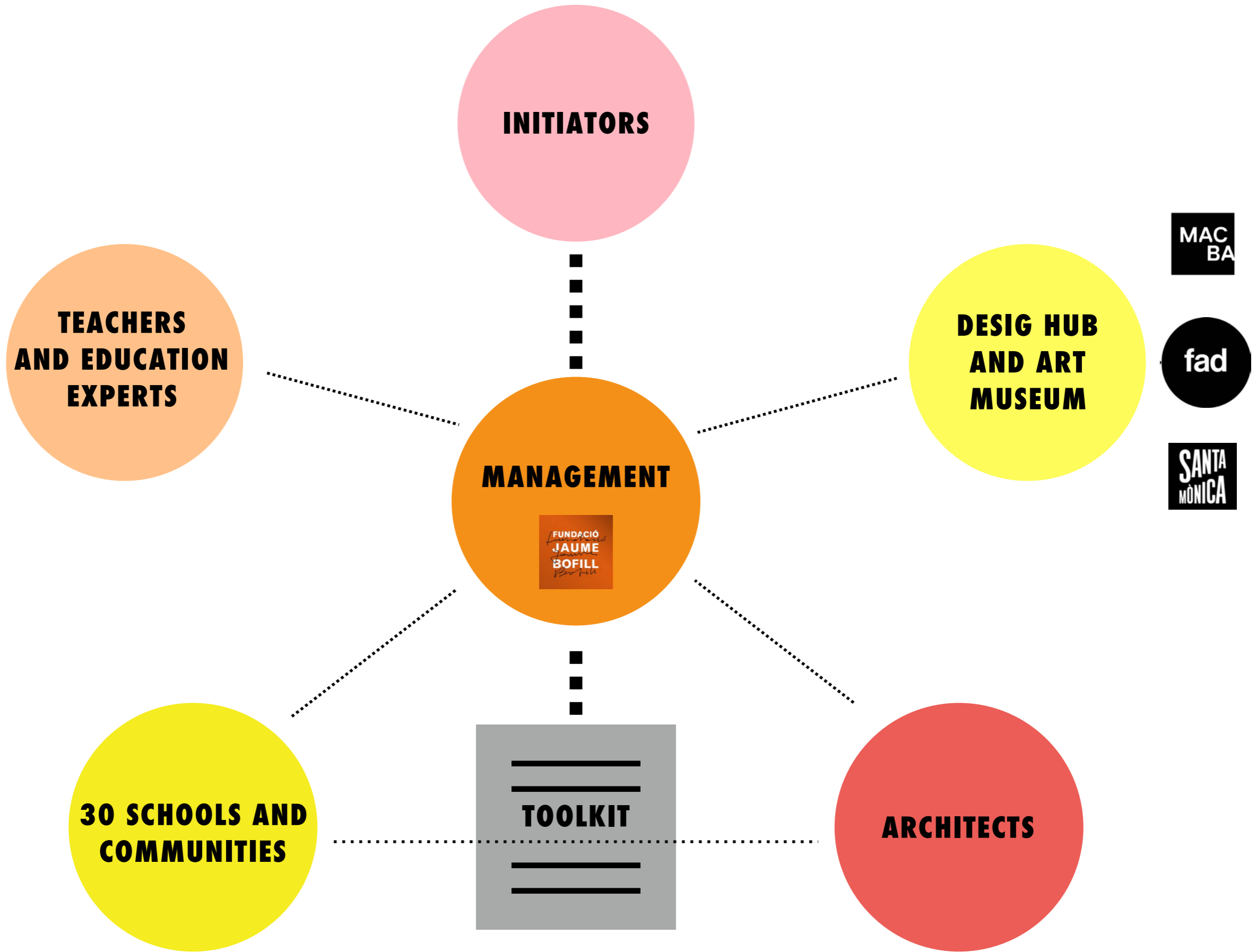
# HACK THE SCHOOL OPEN CHALLENGE



Fundació Jaume Bofill  
Fostering Education Renovation in Catalunya

Hack the School aims to open up a debate around our learning environments by engaging school communities and architects.

It fosters the production of innovative micro-projects through the application of a creative toolkit among other activities.



**(170 SCHOOL PROPOSALS)**

# HTS ACTIVITIES AND CALENDAR

1/2/17

13/2/17

08/5/17

22/5/17

17/6/17

**OPEN CALL**

**SELECTION**

**CO-CREATION**

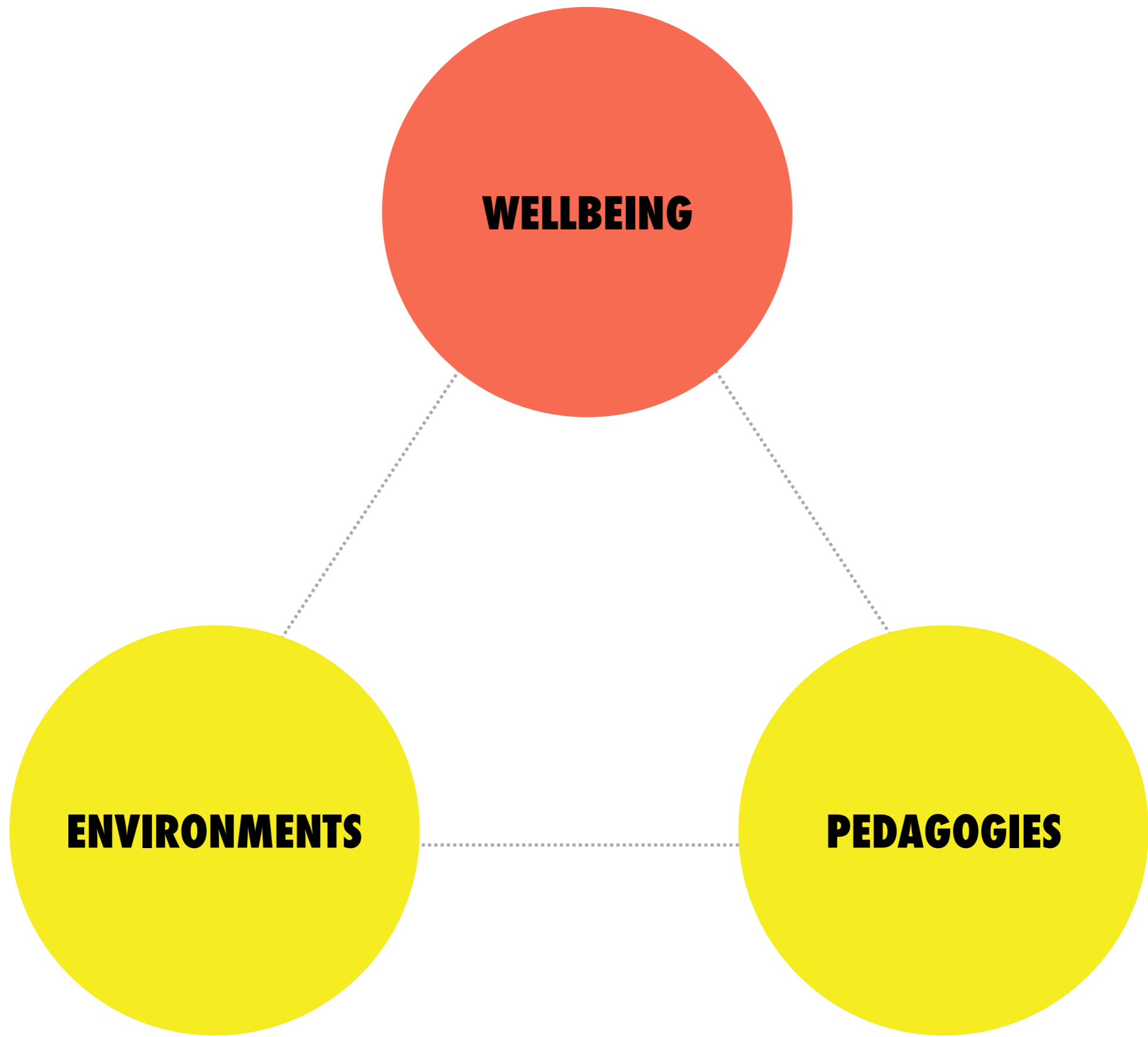
**EVALUATION**

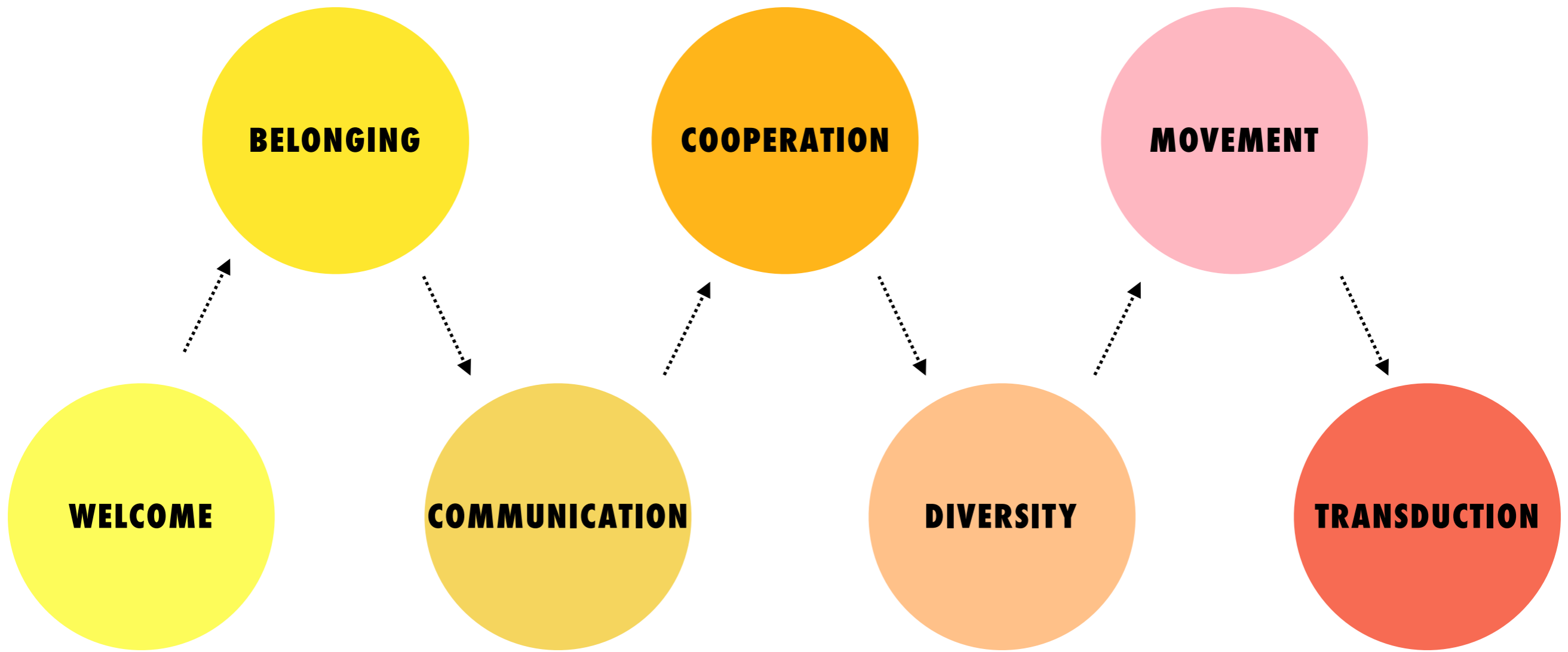
**FINAL  
EVENT**

Matching  
Workshop

School visits  
Social Media  
Art Workshop

Winners  
Exhibition

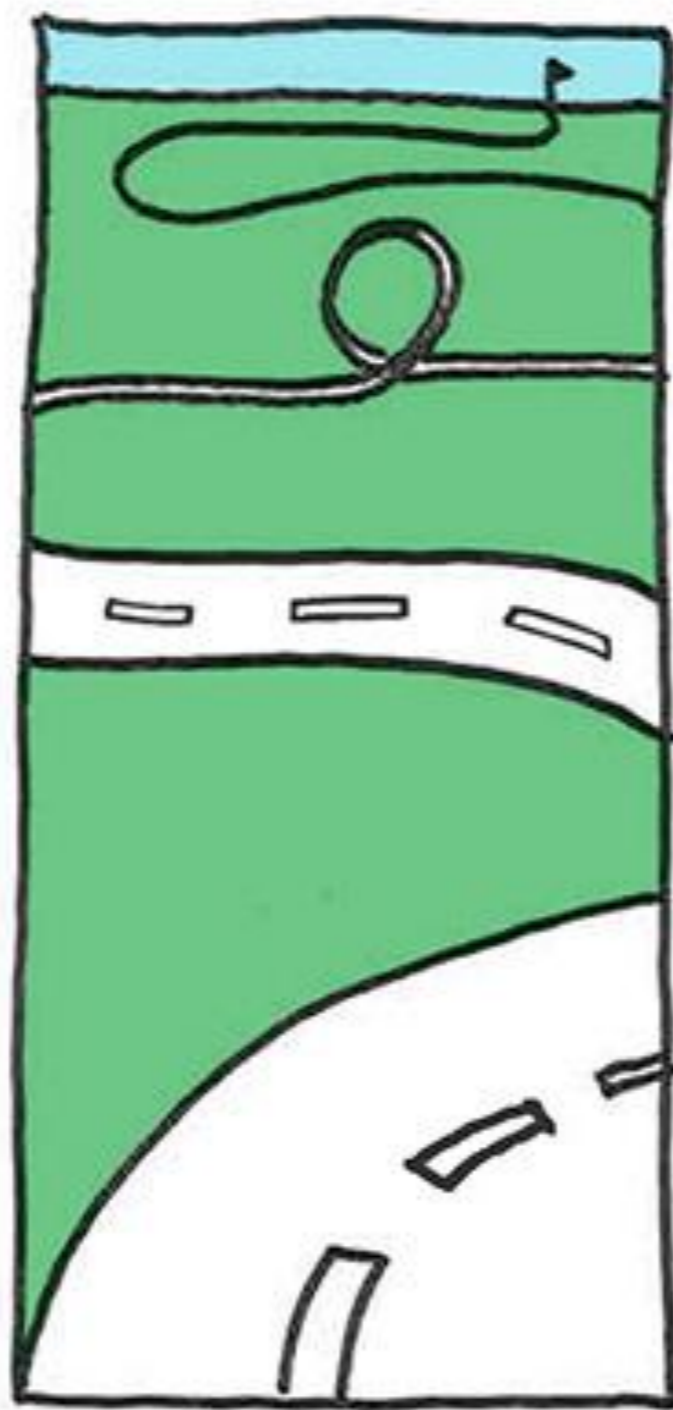




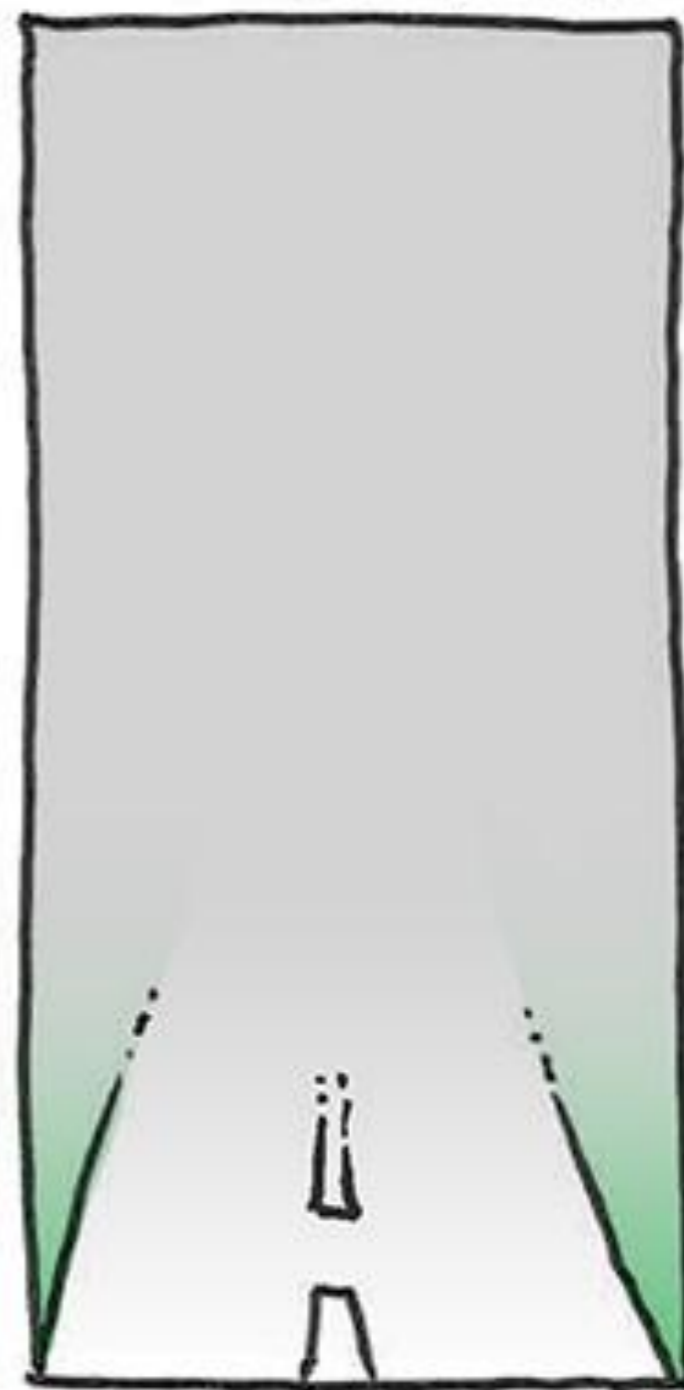
@andywhitlock



HOW YOU SEE THE ROAD AHEAD



WHAT IT WILL ACTUALLY BE LIKE



WHAT YOU CAN PLAN FOR TODAY

# HTS CREATIVE TOOLKIT

## STARTING

1. FORMING THE GROUP
2. FINDING INSPIRATION
3. NEW INSIGHTS

## DISCOVERING

4. WELLBEING, ENVIRONMENTS AND PEDAGOGIES
5. DISCUSSION ABOUT OUR SPACES
6. COLLECTING OPINIONS
7. SUMMARISING

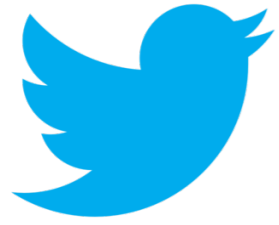
## CO-CREATION ASSESSMENT

8. CREATING A MANIFESTO
9. IDEATION
10. EXPERIMENTATION
11. LISTENING TO THE COMMUNITY
12. IMPLEMENTING
13. ASSESSING COHERENCE
14. GATHERING OPINIONS AND CELEBRATING
15. CLOSING THE PROCESS: LEARNING AND STORIES

**CREATING-REFLECTING**

+

**CREATING-PROTOTYPING**



#HacktheSchool



**OUR AIM IS :**

TRANSFORMATION

INTERDISCIPLINARITY

ENGAGEMENT

WELLBEING

Thank you  
You are welcome to Barcelona

@estherbelvis

@silasot