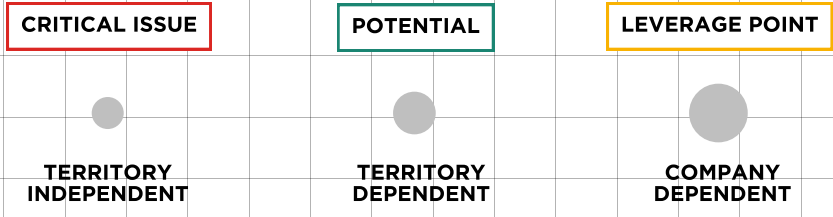


Challenges and opportunities

Open Systems
A.A. 2022/2023

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Mariani Fabrizio	s305504
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Nonis Davide	s300311
Romiti Chiara	s319347
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CHALLENGES

COLLECTING INFORMATION

IMPACT OF CONSTRUCTION SECTOR

MATERIAL DISPOSAL

LACK OF INTERNAL COMMUNICATION

TENDENCY TO FOCUS ON DELIGHT FACTORS

STATUS SYMBOL

SUSTAINABLE CONSTRUCTION KNOWLEDGE

SIDE INVESTMENTS

PUBLIC COMMUNICATION

COMPANY ORGANIZATION

TRENDSSETTING POWER

URBAN HEAT ISLAND

GREEN AREAS

HOUSES ARE OLD AND INEFFICIENT

HIGH CARS/INHABITANTS RATIO

URBAN GARDENS ARE RISING

LACK OF COMMON SPACES AND SERVICES

LACK OF USER AWARENESS

NORMS AND LAWS

FUTURE CLIENTS ARE POORER

ART INSTALLATIONS

MANAGEMENT

CULTURE

URBANIZATION

SUSTAINABILITY

OPPORTUNITIES

1. DIGITAL ARCHIVE

Digitalization of the data collection archive on materials and consumption, monitoring consumption and waste in order to understand how to reduce them

2. APPIFICATION

Provide app-services that involve the user in sustainable uses and behaviors, community sharing and wellness

3. NEW PRODUCTS AND PROCESSES FROM CONTRUCTION WASTES

Find solutions to reuse waste produced directly on site

4. BETTER SORTING AND MANAGEMENT

Better waste management starts from the correct sorting on the construction site and the increasing number of available bins

5. NEW APPROACHES TO MATERIALS

Incorporate innovative materials and techniques into the construction process, seeking alternatives to conventional structural materials, installations, and coatings.

6. INVOLVE CITIZENS

Involve citizens in project phases which have direct contact with the city, in order to better understand their needs and desires

7. INVOLVE RESIDENTS

Involve residents and future residents of Gruppo Building's homes in design choices to understand their needs and desires

8. INVOLVE EXTERNAL EXPERTS

Include external experts during the design phases to enhance the well-being of residents

9. NARRATE SUSTAINABLE PROCESS TO THE PUBLIC

Communicate sustainability to the user using company internal data, explaining the process and materials used to achieve energy efficiency

10. SUSTAINABLE HABITS

Create a storytelling to show residents the right practices to use in everyday life and take 100% advantage of the building they live in

11. INFLUENCE

Use the influential power of Building to promote best practices within networks through experimental projects and research initiatives.

12. NEW SERVICES FOR RESIDENTS

New services for homes and commercial buildings to improve the lives of people living there

13. NEW SERVICES FOR CITIZENS

Introduce bottom-up services for the whole city

14. ANTI-GENTRIFICATION

Keep up with the evolution of the city from the point of view of future infrastructure and redevelopment of neighborhoods

15.DEMOCRATIZATION

Prepare for new markets and broaden the user base by developing more affordable product lines

16. GREEN RESIDENTIAL SOLUTIONS

Make the city greener starting from specific solutions for individual residential buildings

17. GREEN SOLUTIONS FOR CITIZENS

Solutions to make the city greener starting from actions taken by the public administration that can benefit the entire city. Top-down interventions

18. GREEN SOLUTIONS FOR THE COMMUNITY

Solutions to make the community more involved in greening starting from bottom-up actions took by citizen and resident

CASE STUDIES

ECOBLOCKS	[56]	3	4	5	7	8	10
RE-SHOKKI	[29]	3	5	6	8	9	10
VOLVO ELEC3CITY	[15]	2	10	12	13	15	
BUILDING THE LOCAL BY ELLIE BIRKHEAD	[44]	5	7	8	9	15	
NISTA IO	[30]	1	2	9	10		
ENEVO HUB	[2]	2	4	10	12		
OLIO	[3]	2	5	12	13		
BYBLOCK	[18]	3	4	5	9		
ASHCRETE	[53]	3	4	8	9		
STONE CYCLING	[56]	3	4	8	9		
BUSHWICK	[34]	3	11	14	17		
GREEN MARK SCHEME	[25]	1	9	11			
LA FONTANA DEI FIORI	[26]	1	9	11			
GOOD LEAP	[33]	2	9	15			
FERROCK	[49]	3	4	5			
RECRETE	[19]	3	4	5			
K-BRIQ	[45]	3	5	9			
15 MIN CITIES	[17]	3	10	14			
NAPPY ROOFING	[52]	4	5	7			
BEYOND THE CASTLE	[6]	5	6	17			
CORK BLOCKS BY MPH	[46]	5	9	11			
FAIRPHONE	[8]	5	9	15			
COMMUNITY ORIENTED ENGINEERING CO-DESIGN	[7]	6	8	9			
URBACT	[37]	6	10	13			
CARFREE PONTEVEDRA	[36]	6	13	15			
CIT TO GREEN	[36]	6	14	18			
VERTICAL FARMING SYSTEM	[16]	10	17	18			
ECOSTRUTURE	[1]	1	7				
MATTEROFSTUFF	[37]	1	7				
DOCNOMY	[9]	2	10				
HANDY	[11]	2	12				
PARKER	[13]	2	13				
ESTO NO ES UN SOLAR	[14]	2	13				
SUSTAINABLE DRYWALLS	[39]	3	4				
RUBBER TYRES CONCRETE	[51]	4	5				
NEWSPAPER WOODS	[54]	4	5				
VEOLIA	[20]	4	9				
REC02VER BY SIKI	[48]	4	9				
URINE BIOBASED BY SUZANE LAMBERT	[41]	5	7				
CONCRETE	[21]	5	9				
CIGARETTES BUTT BRICKS	[57]	5	9				
B CORPORATION	[58]	5	9				
TIMBERCRETE	[47]	5	11				
MICELIUM BRICK BY LIVING	[42]	5	17				
GREEN CHARCOAL BRICK	[43]	5	17				
I DRO DRAIN	[22]	5	17				
DERBI BRITE	[23]	5	17				
BOSCO VERTICALE	[24]	5	17				
CO-DESIGN CHILDCARE PROVIDERS	[5]	6	8				
CITY NETWORKS OF NEAPOLITAN COMMONS	[40]	6	18				
GUERRILLA GARDENING	[27]	6	14				
THE HIGH LINE	[28]	6	14				
LENLEASE	[4]	9	12				
ONE FOR ONE BY TOM'S	[10]	9	15				
INSULATION WITH MEDITERRANEAN SEAGRASS	[50]	9	15				
THE TIZZANO PROJECT	[31]	6					
THE TOOL LIBRARY	[112]	12					
GREEN HOME UNSANGDONG ARCHITECTS	[X]	16					
ENEL X SUN PLUG&PLAY	[X]	16					
SENSE ENERGY MONITOR	[X]	16					

DIGITALIZATION

MATERIALS AND WASTE

CO-DESIGN

STORYTELLING

SERVICES

GREENING