A LUZ NA CASA

Presentation | Studio Revitalizing Heritage

by Emişgül Esra Şahin

Revitalizing Heritage

Research

methodology •
social media analysis •
jogo de Palavras •
conclusion •

Design

• site selection
• vision

Facade
• redesign strategy
• facade redesign

Impact Assessment

methodology •
facade appreciation •
conclusion •

Design

Plan
• analysis
• daylight
• affordability
• cross ventilation
• climate

The End

reflection •

Group work by Krist van Herck, Emişgül Esra Şahin & Roy Swinkels

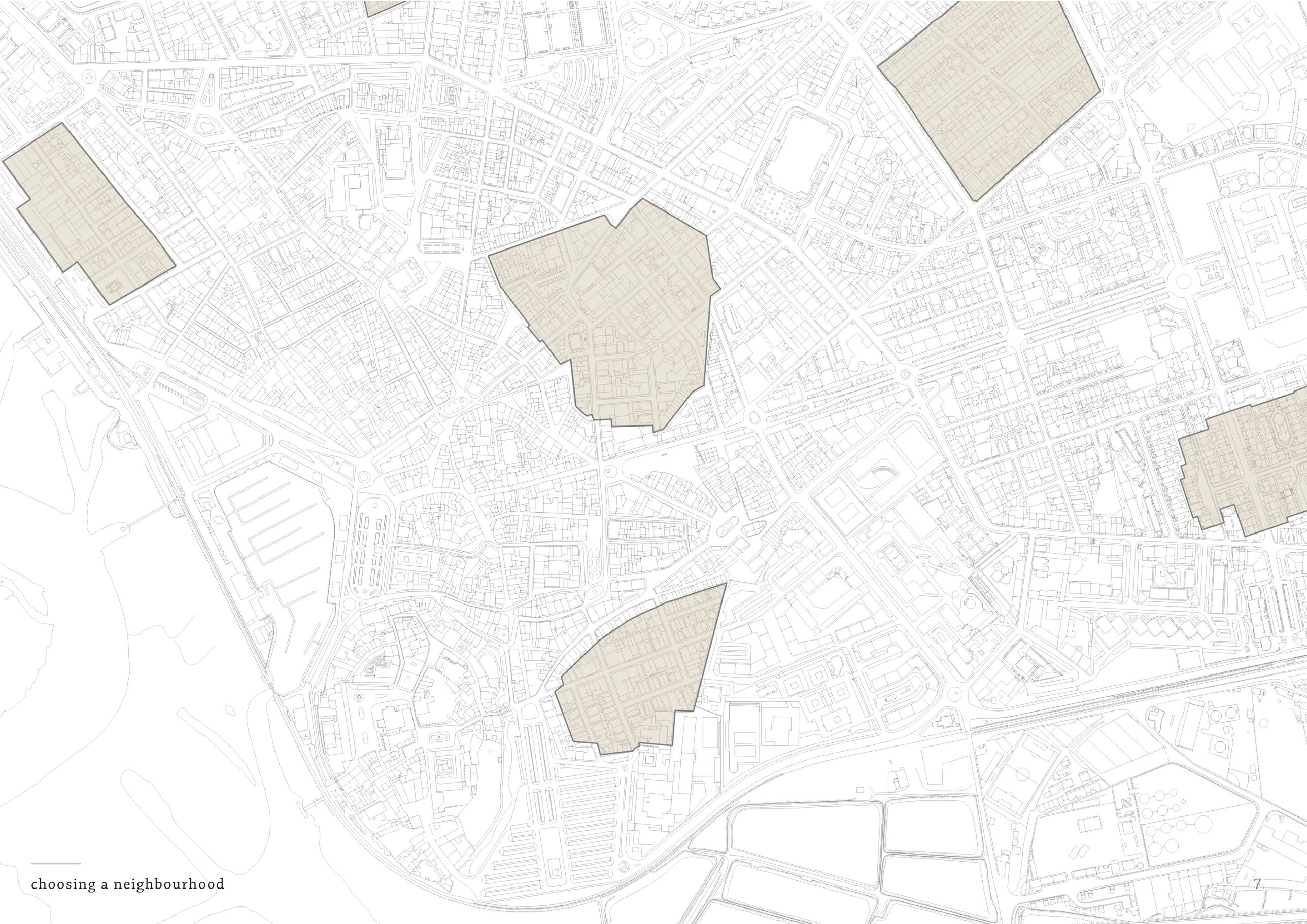
REVEALING BUILT HERITAGE THROUGH SOCIAL MEDIA

Researching the values of Faro's heritage

Cultural Significance Survey Paper



in Faro, Portugal



choosing a neighbourhood

Where ?
Location

What ?
Product

Why ?
Product

How do the **attributes** and **values** of Faro's heritage in São Fransisco, Faro, conveyed by **locals and tourists**, set the frame for a new **masterplan**?

Who ?
Target group

How ?
Results

How do the attributes and values of Faro's heritage in São Fransisco, Faro, conveyed by locals and tourists, set the frame for a new masterplan?

What are the attributes and values conveyed by locals and tourists through social media?

What are the attributes posted by locals?

What are the attributes posted by tourists?

Manual social media analysis (Instagram)

What attributes are posted and how often

How are the attributes of the façades valued by the locals and tourists?

What are the attributes on the façades?

How do locals value the facade attributes?

How do tourists value the facade attributes?

Fieldwork

What attributes are common in São Francisco

O Jogo de Palavras

How it is valued

Why it is valued

Masterplan

research method

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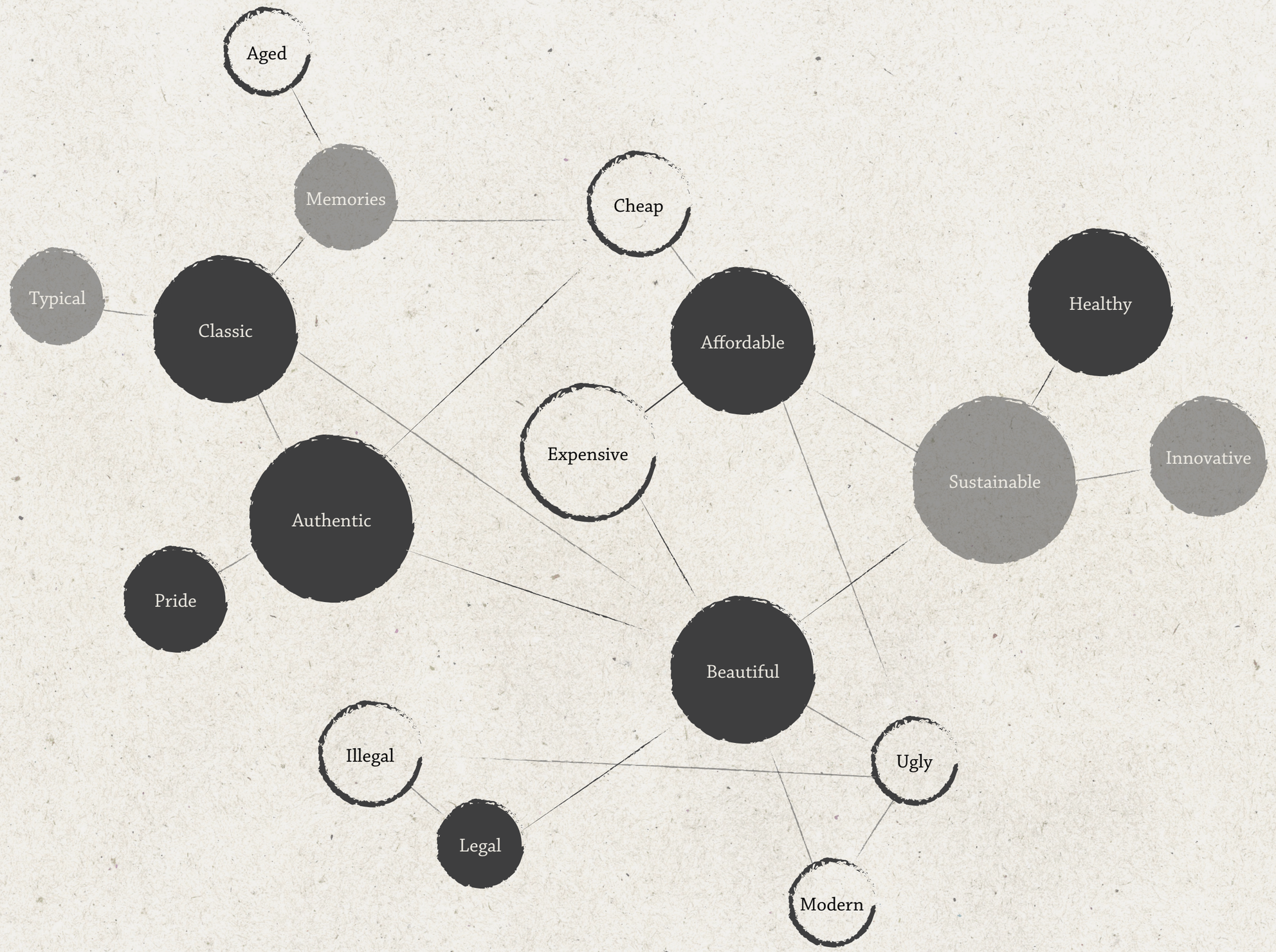
social media analysis

nr.	Local (0) / Tourist (1)	Hashtag of Origin	Post	Location	Nationality of Origin	Caption	Caption Translated	Source language caption	Hashtags	Atribute	Post Date	Post Season	Links
1	0	#tourismodefaro		Museu Municipal de Faro	Portuguese	Já conhece o Antigo Convento de Nossa Senhora da Assunção e que, atualmente, é a "casa" do @museumunicipaldefaro ❓ No Dia Internacional dos Monumentos e Sítios serão organizadas visitas orientadas a este notável edifício quinhentista. Para participar basta aparecer no dia 18 de abril, entre as 11h30 e as 16h, na entrada do Museu Municipal (Largo D. Afonso III).	It already knows the former convent of Our Lady of the Assumption and which is currently the "house" of @museum Cultuildefaro ❓ on the International Day of Monuments and Sites will be organized guided visits to this remarkable 16th century building. To participate, just appear on April 18, between 11:30 and 16h, at the entrance of the Municipal Museum (Largo D. Afonso III).	pt	#MunicipiodeFaro #CityBreak #Algarve #Portugal #Europe #TurismoDeFaro #FaroAlgarve #FaroPortugal #VisitFaro #IgersFaro #Faro #MuseuMunicipalDeFaro #Convento #Convent #Museu #Museum #Museo	Building detail	14 april 2022	spring	https://www.instagram.com/p/CeSyjERIYMO/
2	0	#tourismodefaro		Praça Dom Marcelino Franco, Faro	Portuguese	O centro histórico de Faro revela-nos muitas surpresas e uma delas é o Palacete Belmarço, um exemplo raro da arquitectura revivalista e arte-nova no Algarve, projectado em 1912 por Norte Júnior para um rico comerciante de café.	Faro's historic center reveals us many surprises and one of them is the Belmaro Palace, a rare example of revivalist architecture and a new art in the Algarve, projected in 1912 by Norte Júnior to a rich coffee merchant.	pt	#faroportugal #turismodefaro #algarve #visitportugal #super_portugal #wow_portugal #olhar_de_portugal #amar_portugal #olhoportugues #portugal_lovers #amar_portugal #portugalemperspectiva #brasileirosemportugal #exploringportugal #dicasdeportugal #beautifuldestinations #seemycity #bestcitybreaks #travelpassion #visiteurope #map_of_europe #incredible_europe	Building	5 february 2022	winter	https://www.instagram.com/p/CZmodhLsnLe/



result of the social media analysis

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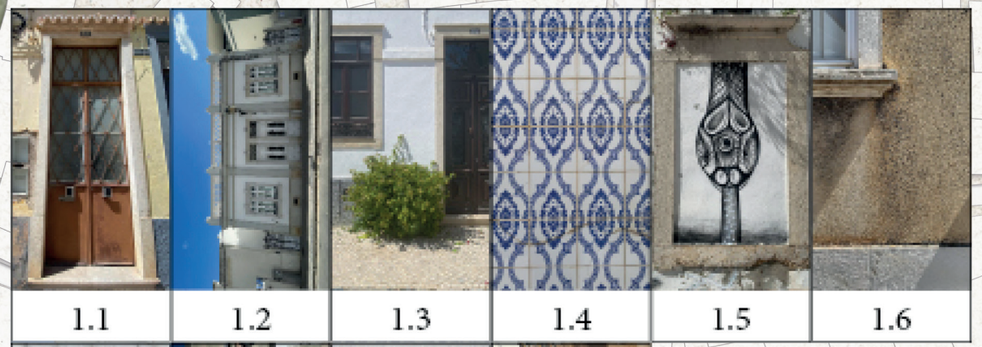
Why it is valued

Masterplan

fieldwork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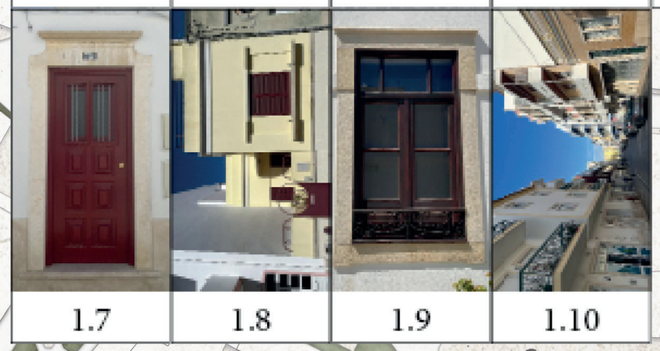
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1.9
1.10


2.1
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2.6


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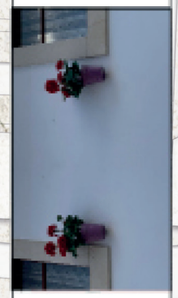
3.10


3.1


3.2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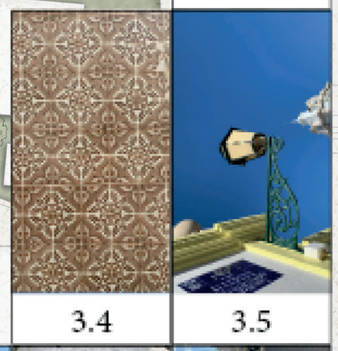
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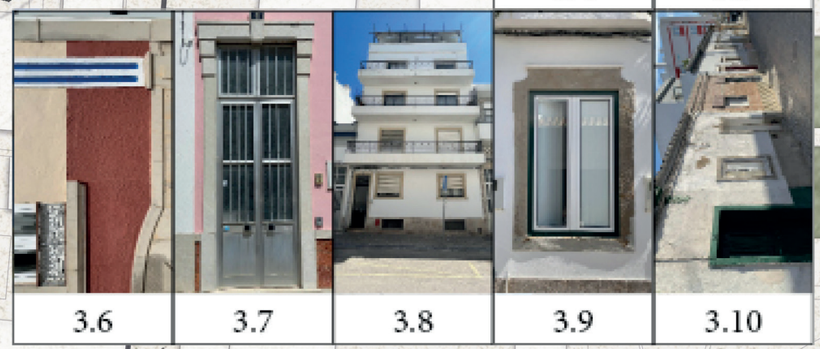
3.6
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2.8

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O Jogo de Palavras

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Why it is valued

Masterplan

site survey

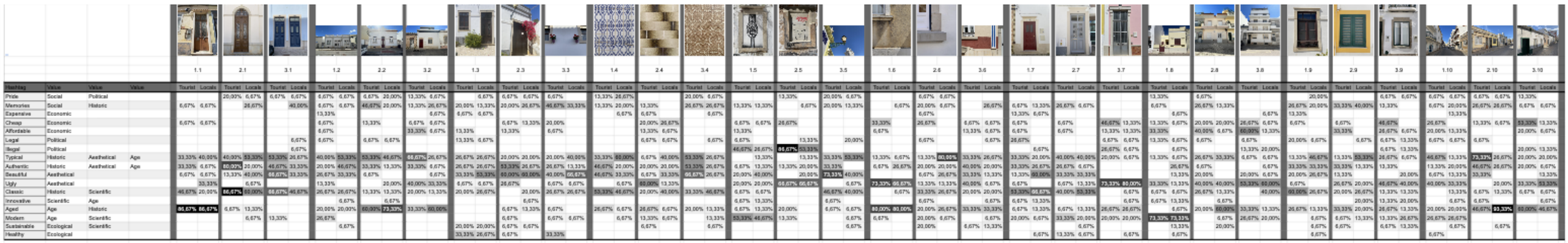








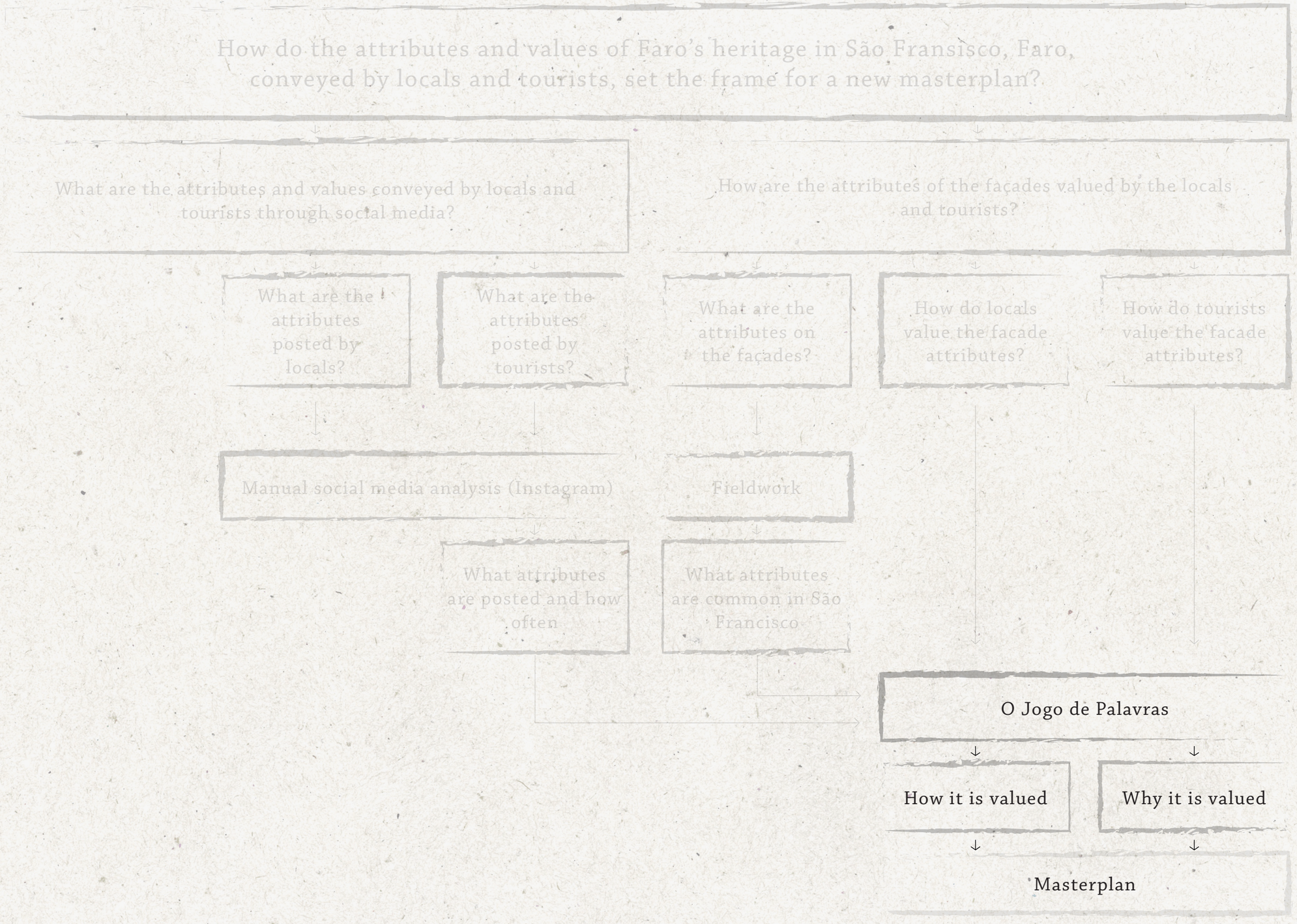


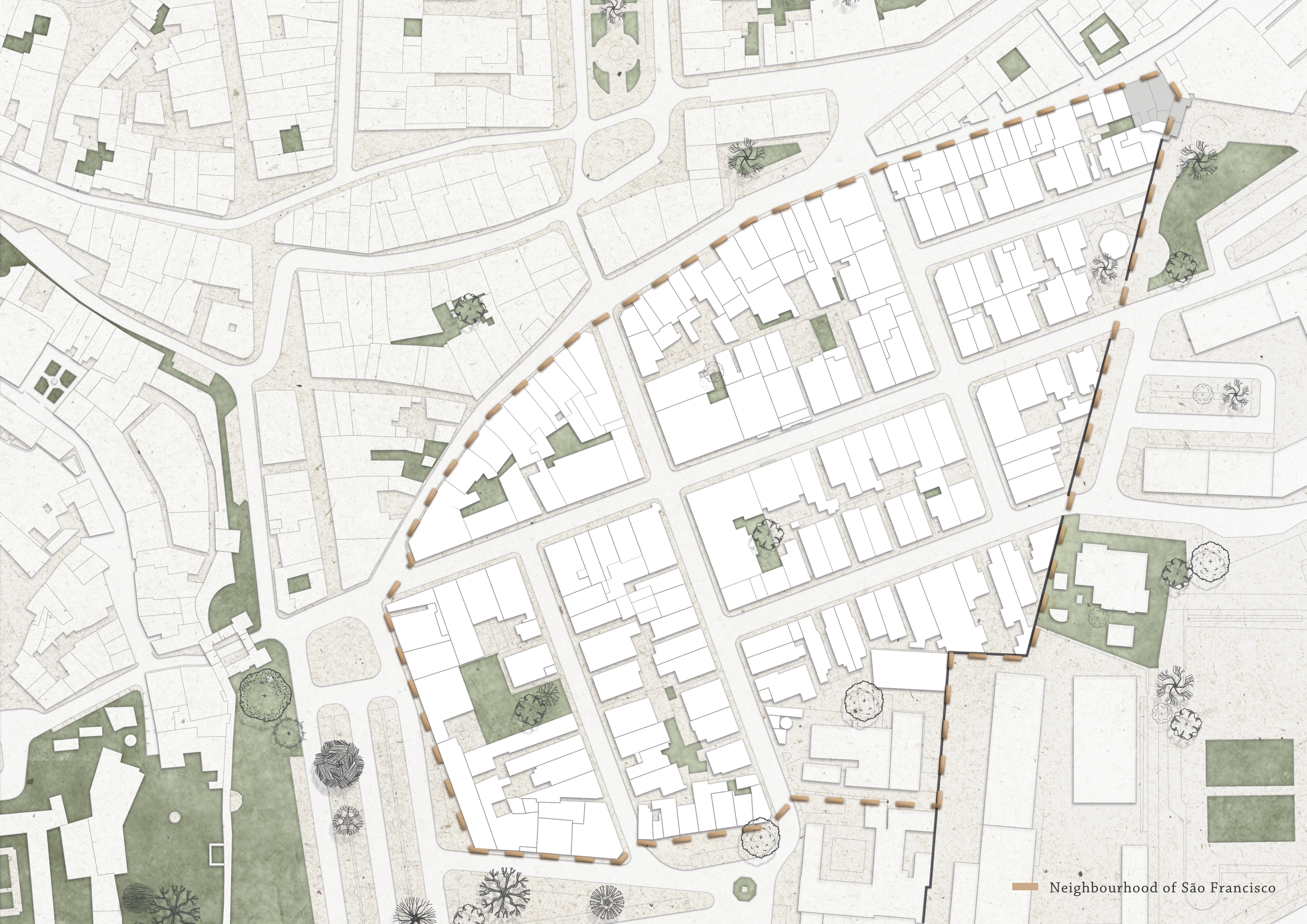


Hashtag	Value	Value	Value	1.1		2.1		3.1		1.2		2.2		3.2		1.3		2.3		3.3		1.4		2.4		3.4		1.5		2.5		3.5		1.6		2.6		3.6		1.7		2.7		3.7		1.8		2.8		3.8		1.9		2.9		3.9		1.10		2.10		3.10	
				Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals
Pride	Social	Political				20,00%	6,67%	6,67%	6,67%	6,67%	6,67%	6,67%	20,00%	13,33%	6,67%		6,67%	6,67%	6,67%	6,67%		13,33%	26,67%			20,00%	6,67%			13,33%		20,00%	6,67%			6,67%	6,67%							13,33%							20,00%			6,67%	6,67%	6,67%	6,67%	6,67%	6,67%	13,33%	
Memories	Social	Historic		6,67%	6,67%		26,67%		40,00%	6,67%	6,67%	46,67%	20,00%	13,33%	26,67%	20,00%	13,33%	20,00%	26,67%	46,67%	33,33%	13,33%	20,00%	13,33%		26,67%	26,67%	13,33%	13,33%		6,67%		20,00%	13,33%		6,67%		26,67%	6,67%	6,67%	13,33%	26,67%	6,67%			6,67%	13,33%		26,67%	20,00%	33,33%	40,00%	13,33%		6,67%	20,00%	26,67%	26,67%	6,67%	6,67%
Expensive	Economic									13,33%					6,67%	6,67%	6,67%						6,67%	6,67%			6,67%								6,67%				13,33%	6,67%								6,67%							13,33%			
Cheap	Economic			6,67%	6,67%					6,67%		13,33%		6,67%	6,67%			6,67%	13,33%	20,00%				20,00%	26,67%			6,67%	6,67%	26,67%				33,33%		26,67%		6,67%	6,67%	6,67%		6,67%		46,67%	13,33%	13,33%	6,67%	20,00%	20,00%	26,67%	6,67%	6,67%			46,67%	26,67%		13,33%	6,67%	53,33%	13,33%
Affordable	Economic									6,67%				33,33%	6,67%	13,33%		13,33%		6,67%				13,33%	6,67%			13,33%				6,67%			13,33%	6,67%		6,67%			6,67%		13,33%	6,67%	33,33%		40,00%	6,67%	60,00%	13,33%			33,33%		26,67%	6,67%	20,00%	13,33%
Legal	Political								6,67%	6,67%		6,67%	6,67%			13,33%	6,67%							6,67%	6,67%			6,67%	13,33%		20,00%				6,67%		13,33%	6,67%					6,67%	6,67%					6,67%	6,67%			6,67%	13,33%			
Illegal	Political								6,67%																			46,67%	26,67%	86,67%	53,33%																													20,00%	13,33%
Typical	Historic	Aesthetical	Age	33,33%	40,00%	40,00%	53,33%	53,33%	26,67%	40,00%	53,33%	53,33%	46,67%	86,67%	26,67%	26,67%	26,67%	20,00%	20,00%	20,00%	40,00%	33,33%	60,00%	6,67%	40,00%	53,33%	26,67%		13,33%	33,33%	53,33%	13,33%	6,67%	13,33%	80,00%	33,33%	26,67%	33,33%	20,00%	40,00%	40,00%	13,33%	6,67%	6,67%	13,33%	46,67%	13,33%	53,33%	26,67%	6,67%	46,67%	13,33%	73,33%	26,67%	20,00%	20,00%
Authentic	Historic	Aesthetical	Age	33,33%	6,67%	60,00%	20,00%	46,67%	33,33%	20,00%	46,67%	33,33%	13,33%	33,33%	6,67%	26,67%	26,67%	53,33%	26,67%	26,67%	13,33%	46,67%	20,00%	20,00%	20,00%	53,33%	26,67%	6,67%	13,33%	13,33%	20,00%	33,33%		6,67%	26,67%	20,00%	6,67%		33,33%	33,33%	33,33%	13,33%		26,67%	6,67%			33,33%	33,33%	33,33%	13,33%	13,33%		46,67%	26,67%	20,00%	6,67%
Beautiful	Aesthetical			6,67%	6,67%	13,33%	40,00%	46,67%	33,33%	26,67%	33,33%	6,67%			6,67%	33,33%	53,33%	60,00%	93,00%	40,00%	66,67%	46,67%	33,33%	6,67%	33,33%	66,67%	26,67%	20,00%	40,00%		73,33%	40,00%		6,67%	26,67%	33,33%	13,33%	93,00%	33,33%	33,33%		20,00%	6,67%	20,00%	26,67%	13,33%		20,00%	6,67%	13,33%	6,67%	13,33%	33,33%		20,00%	6,67%	13,33%	13,33%
Ugly	Aesthetical				33,33%		6,67%			13,33%			20,00%	40,00%	33,33%	6,67%	6,67%	26,67%			6,67%	6,67%		6,67%	60,00%	13,33%		20,00%	20,00%	66,67%	66,67%		6,67%	73,33%	66,67%	13,33%	13,33%	40,00%	6,67%	6,67%	13,33%	73,33%	60,00%	33,33%	13,33%	40,00%	40,00%	53,33%	60,00%	6,67%		26,67%	20,00%	46,67%	40,00%	33,33%		33,33%	53,33%
Classic	Historic	Scientific		46,67%	20,00%	86,67%	60,00%	86,67%	46,67%	26,67%	26,67%	13,33%	13,33%	20,00%	13,33%	20,00%	26,67%		20,00%	26,67%	26,67%	53,33%	46,67%	20,00%	40,00%	33,33%	46,67%	6,67%	6,67%			46,67%	40,00%		6,67%	33,33%	26,67%	20,00%	20,00%	53,33%	86,67%	40,00%	53,33%		6,67%	6,67%	26,67%	13,33%		40,00%	93,00%	26,67%	20,00%	26,67%	13,33%	13,33%		13,33%	6,67%	13,33%	
Innovative	Scientific	Age									6,67%		6,67%						6,67%									6,67%	13,33%								6,67%	13,33%																	6,67%		6,67%		6,67%
Aged	Age	Historic		86,67%	86,67%	6,67%	13,33%			20,00%	20,00%	60,00%	73,33%	33,33%	60,00%			6,67%	13,33%	6,67%		26,67%	6,67%	26,67%	6,67%	20,00%	13,33%	6,67%	13,33%	20,00%		6,67%	6,67%	80,00%	80,00%	20,00%	26,67%	33,33%	33,33%	6,67%	13,33%	26,67%	26,67%			6,67%	60,00%	33,33%	13,33%	26,67%	13,33%	33,33%	20,00%	26,67%	13,33%	23%	11%	20,00%	20,00%	46,67%	93,33%	60,00%	46,67%
Modern	Age	Scientific					6,67%	13,33%		26,67%								6,67%	13,33%	6,67%	6,67%			13,33%	6,67%	53,33%	46,67%	13,33%			6,67%				20,00%	6,67%	33,33%	20,00%			6,67%	20,00%	73,33%	73,33%		6,67%	26,67%	20,00%		6,67%	6,67%	13,33%	13,33%	26,67%	26,67%	26,67%			
Sustainable	Ecological	Scientific							6,67%							20,00%	20,00%	6,67%	6,67%				6,67%	13,33%	6,67%																				13,33%								6,67%		6,67%			
Healthy	Ecological															33,33%	26,67%	6,67%		33,33%																																						

Value (Count)	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals
Social	1	1	3	5	1	7	2	2	8	6	4	5	3	3	4	5	8	5	4	7	2		7	5	2	2	2	1	6	3		1	4	2		4	1	2	4	1			3		5	2			4	6	5	6	3	1	2	4	5	5	3	1
Economic	1	1					4		2		6	3	3	1	3	2	4			1	6	5		1	3	1	4				6		5		3	2	4	1	2		9	4	7	2	9	4	13	4	3		6		11	1	7	4	2	1	11	3
Political			3	1	1	3	2	1	2	4	2	1	2	2	1	1	1		2	4	1	1	3	2	8	4	15	10	3	4			2	1		1	4	1			5	2	4	2	2		2	3	3		3	4		1	3	5	2	2	2	1	5	2
Historic	31	24	32	26	25	22	17	23	31	25	25	20	14	14	15	16	19	17	26	23	13	16	28	21	5	9	5	6	21	17	15	19	16	24	19	19	20	21	21	18	7	6	4	7	16	18	6	10	24	21	20	23	14	5	13	13	30	28	17	13
Aesthetical	11	13	20	16	25	14	15	20	14	12	21	11	14	17	24	16	14	19	19	16	14	16	26	12	7	13	12	18	21	15	14	15	8	21	22	10	13	16	16	14	14	13	7	9	14	11	12	12	11	16	13	13	13	10	16	12	23	11	11	14
Scientific	7	3	13	10	12	7	8	6	2	3	3	2	6	7	2	5	5	5	8	8	6	7	5	10	10	10	2		8	8	1	1	12	5	4	7	12	13	11	12	3	5	13	16	4	7	4	9	9	6	5	9	7	11	4	8	2	3	1	2
Age	23	20	19	14	17	9	16	19	22	21	20	14	8	8	13	10	9	9	16	14	10	11	19	12	11	15	7	5	12	10	16	17	12	20	16	14	15	12	16	12	10	9	14	19	8	16	10	7	11	15	13	18	14	10	16	13	26	22	15	12
Ecological								1					8	7	2	1	5				1		1							1				3		1	2		1		2	2		1		3		3			2	1		1	2	1	1		1		

Value (%)	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals	Tourist	Locals
Social	3,33%	3,33%	10,00%	16,67%	3,33%	23,33%	6,67%	6,67%	26,67%	20,00%	13,33%	16,67%	10,00%	10,00%	13,33%	16,67%	26,67%	16,67%	13,33%	23,33%	6,67%		23,33%	16,67%	6,67%	6,67%	6,67%	3,33%	20,00%	10,00%		3,33%	13,33%	6,67%		13,33%	3,33%	6,67%	13,33%	3,33%			10,00%		16,67%	6,67%			13,33%	20,00%	16,67%	20,00%	10,00%	3,33%	6,67%	13,33%	16,67%	16,67%	10,00%	3,33%
Economic	2,22%	2,22%					8,89%		4,44%		13,33%	6,67%	6,67%	2,22%	6,67%	4,44%	8,89%			2,22%	13,33%	11,11%		2,22%	6,67%	2,22%	8,89%				13,33%		11,11%		6,67%	4,44%	8,89%	2,22%	4,44%		20,00%	8,89%	15,56%	4,44%	20,00%	8,89%	28,89%	8,89%	6,67%		13,33%		24,44%	2,22%	15,56%	8,89%	4,44%	2,22%	24,44%	6,67%
Political		6,67%	2,22%	2,22%	6,67%	4,44%	2,22%	4,44%	8,89%	4,44%	2,22%	4,44%	4,44%	2,22%	2,22%	2,22%		4,44%	8,89%	2,22%	2,22%	6,67%	4,44%	17,78%	8,89%	33,33%	22,22%	6,67%	8,89%			4,44%	2,22%			2,22%	8,89%	2,22%		11,11%	4,44%	8,89%	4,44%	4,44%		6,67%	6,67%	6,67%	8,89%		2,22%	6,67%	11,11%	4,44%	4,44%	4,44%	2,22%	11,11%	4,44%
Historic	41,33%	32,89%	42,67%	34,67%	33,33%	29,33%	22,67%	30,67%	41,33%	33,33%	33,33%	26,67%	18,67%	18,67%	20,00%	21,33%	25,33%	22,67%	34,67%	30,67%	17,33%	21,33%	37,33%	28,00%	6,67%	12,00%	6,67%	8,00%	28,00%	22,67%	20,00%	25,33%	21,33%	32,00%	25,33%	25,33%	26,67%	28,00%	28,00%	24,00%	9,33%	8,00%	5,33%	9,33%	21,33%	24,00%	8,00%	13,33%	32,00%	26,00%	26,67%	26,67%	18,67%	6,67%	17,33%	17,33%	40,00%	37,33%	22,67%	17,33%
Aesthetical	18,33%	21,67%	33,33%	30,00%	41,67%	23,33%	25,00%	33,33%	23,33%	20,00%	35,00%	18,33%	23,33%	26,33%	40,00%	26,67%	23,33%	31,67%	31,67%	30,00%	23,33%	26,67%	40,33%	20,00%	11,67%	21,67%	20,00%	30,00%	26,00%	25,00%	23,33%	25,00%	13,33%	26,00%	26,67%	16,67%	21,67%	26,67%	26,67%	23,33%	23,33%	21,67%	11,67%	15,00%	23,33%	16,33%	20,00%	20,00%	18,33%	26,67%	21,67%	21,67%	21,67%	16,67%	26,67%	20,00%	36,33%	18,33%	23,33%
Scientific	11,67%	5,00%	21,67%	16,67%	20,00%	11,67%	13,33%	10,00%	3,33%	5,00%	5,00%	3,33%	10,00%	11,67%	3,33%	6,33%	6,33%	8,33%	13,33%	13,33%	10,00%	11,67%	8,33%	16,67%	16,67%	16,67%	3,33%		13,33%	13,33%	1,67%	1,67%	20,00%	6,33%	6,67%	11,67%	20,00%	21,67%	18,33%	20,00%	5,00%	6,33%	21,67%	26,67%	6,67%	11,67%	6,67%	15,00%	15,00%	10,00%	8,33%	15,00%	11,67%	18,33%	6,67%	13,33%	3,33%	5,00%	1,67%	3,33%
Age	30,67%	26,67%	25,33%	18,67%	22,67%	12,00%	21,33%	25,33%	29,33%	28,00%	26,67%	18,67%	10,67%	10,67%	17,33%	13,33%	12,00%	12,00%	21,33%	18,67%	13,33%	14,67%	25,33%	16,00%	14,67%	20,00%	9,33%	6,67%	16,00%	13,33%	21,33%	22,67%	16,00%	26,67%	21,33%	18,67%	20,00%	16,00%	21,33%	16,00%	13,33%	12,00%	18,67%	25,33%	10,67%	21,33%	13,33%	9,33%	14,67%	20,00%	17,33%	24,00%	18,67%	13,33%	21,33%	17,33%	34,67%	29,33%	20,00%	16,00%
Ecological								3,33%					26,67%	23,33%	6,67%	3,33%	16,67%				3,33%			3,33%											10,00%		3,33%	6,67%		3,33%		6,67%	6,67%		10,00%		10,00%						3,33%		3,33%	6,67%		3,33%	3,33%		3,33%		


How do the attributes and values of Faro's heritage in São Fransisco, Faro, conveyed by locals and tourists, set the frame for a new masterplan?
What are the attributes and values conveyed by locals and tourists through social media?
How are the attributes of the façades valued by the locals and tourists?
What are the attributes posted by locals?
What are the attributes posted by tourists?
What are the attributes on the façades?
How do locals value the facade attributes?
How do tourists value the facade attributes?
Manual social media analysis (Instagram)
Fieldwork
What attributes are posted and how often
What attributes are common in São Francisco
O Jogo de Palavras
How it is valued
Why it is valued
Masterplan


Neighbourhood of São Francisco

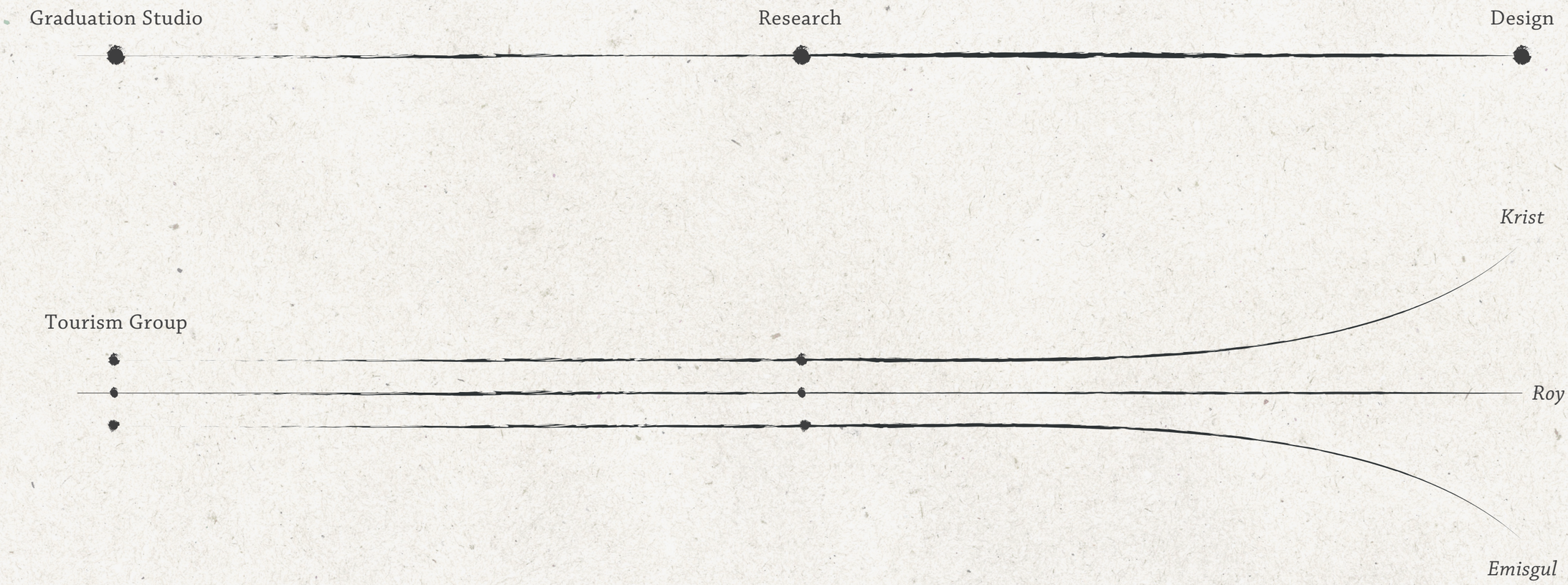
highly appreciated — low appreciated







highrise area Potential Conserve Opportunity for street art


Graduation Studio
Research
Design
Krist
Tourism Group
Roy
Emisgul

Roy
Krist
Emisgul









Rua do Bocage



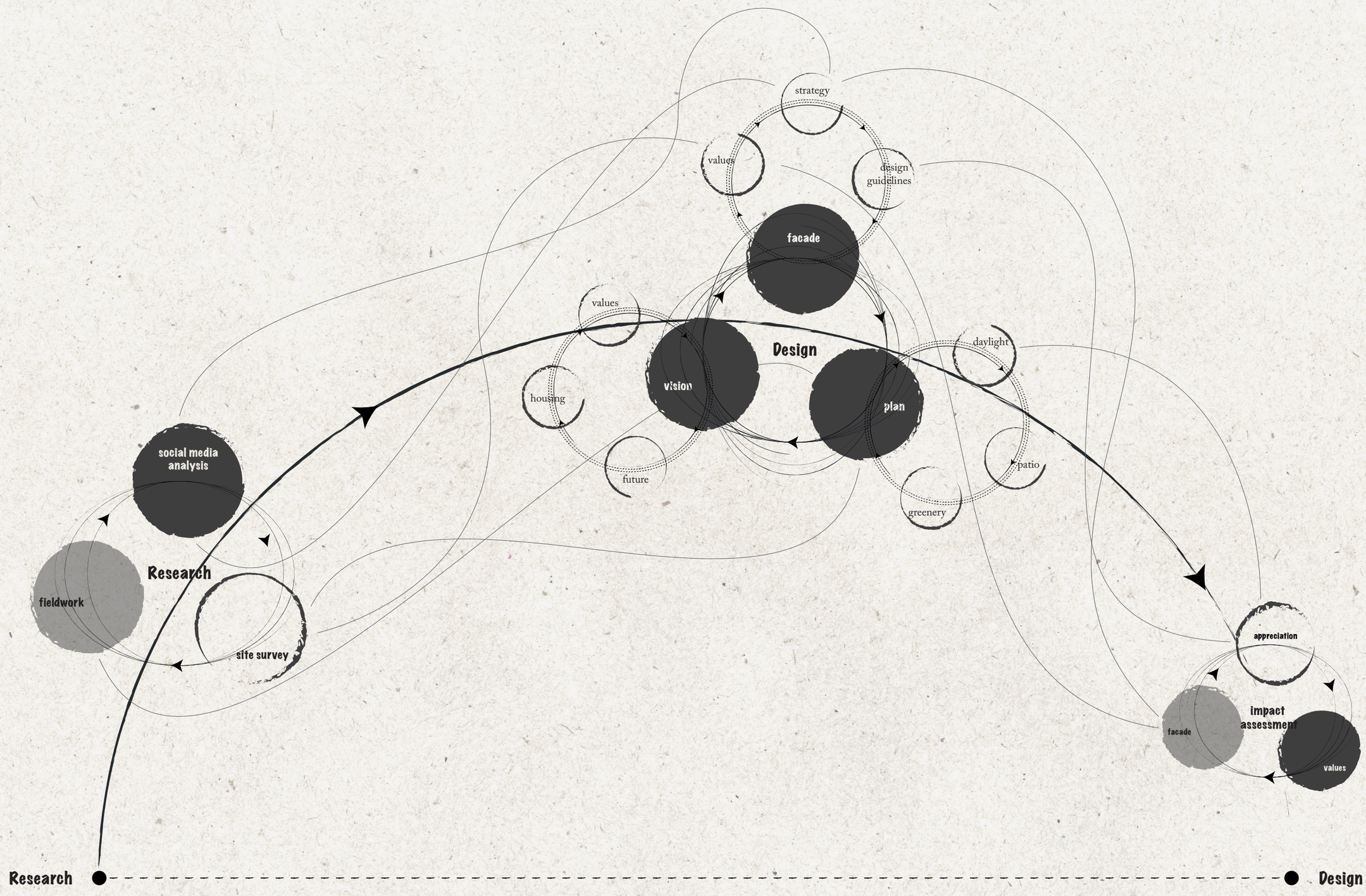
site plan



site plan

A LUZ NA CASA

Designing the values of Faro's heritage


strategy
values
design guidelines
facade
values
Design
vision
plan
daylight
housing
future
greenery
patio
social media analysis
Research
fieldwork
site survey
appreciation
impact assessment
facade
values
Research
Design

"Our ***heritage*** is what we have inherited from the past to value and *enjoy* in the present, and to *preserve* and *pass* on to future generations"

Our expression of this **identity** shows others what we value; it highlights our *values* and *priorities*

Redesign based on **VALUES**



Design Based on Values

“In the sphere of cultural heritage, the preservation values are critical deciding what to preserve and how”

More and Affordable Housing

“Relieve tension on the housing market and lack of affordable housing”

Future Proof

“Protect and preserve heritage for future generations”

Redesign of Built Heritage







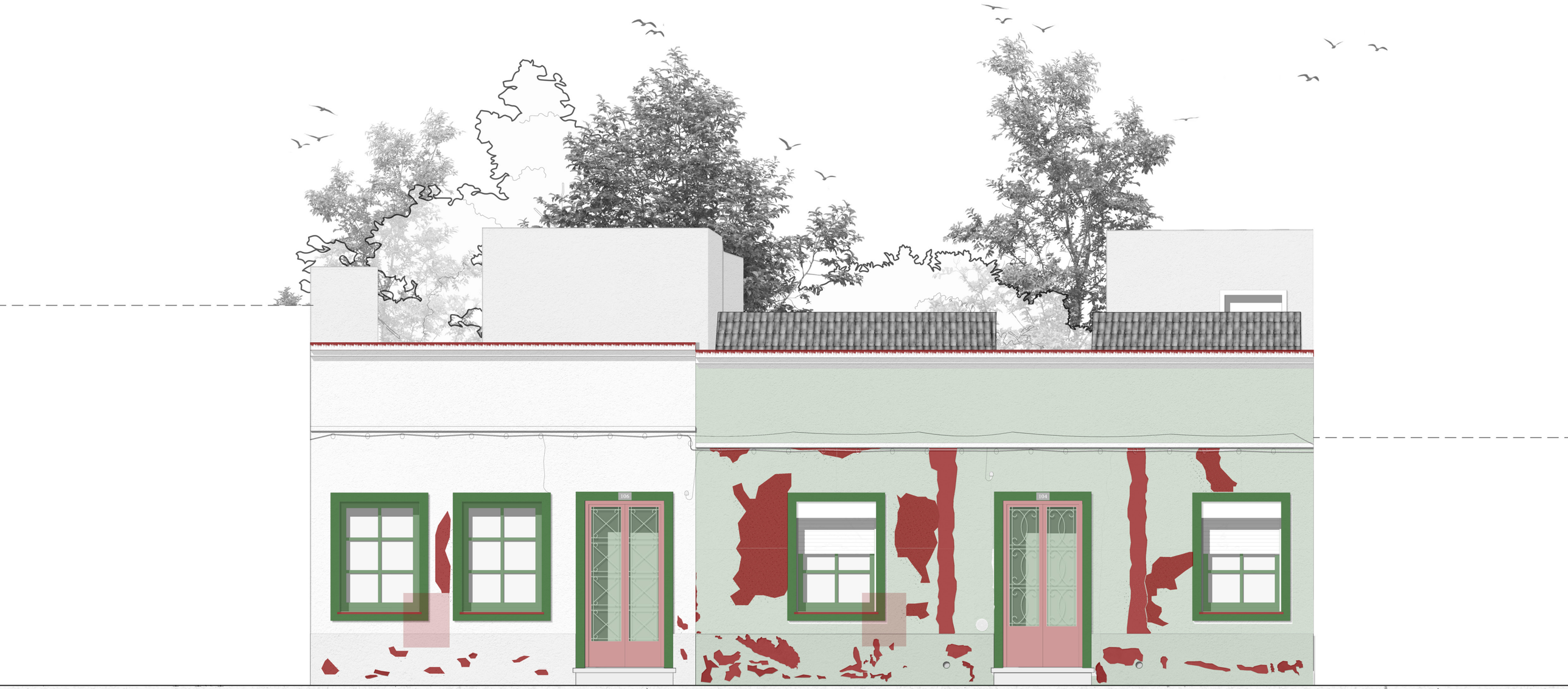


existing facade

façade

Negative

Positive



Pictures matched to Rua do Bocage 106:

1.1	- Rusted metal door	0,40
1.6	- Dirty window and damages wal	0,00
1.9	- Wooden window frame	0,83
3.10	- One story building street	0,20
	average score:	*0,35*

Pictures matched to Rua do Bocage 104:

1.1	- Rusted metal door	0,40
2.2	- Single door and two window facade	0,57
1.6	- Dirty window and damages wall	0,00
1.9	- Wooden window frame	0,83
3.10	- One story building street	0,20
	average score:	*0,40*

facade analysis

Positive

Negative



Design guidelines:

- maintain the neglected original typology facade
- use wooden door instead of rusted metal door
- restore wooden window

increase the facade appreciation:

add lanters to facade if only needed •
add greenery to facade •

redesign strategy



maintain facade:

1. hide the cables under the facade detail and in the wall
2. remove concrete and replace with hydroligic lime plaster
3. plaster facade with hydroligic lime plaster
4. repaint
5. maintain this every 8 years

maintain



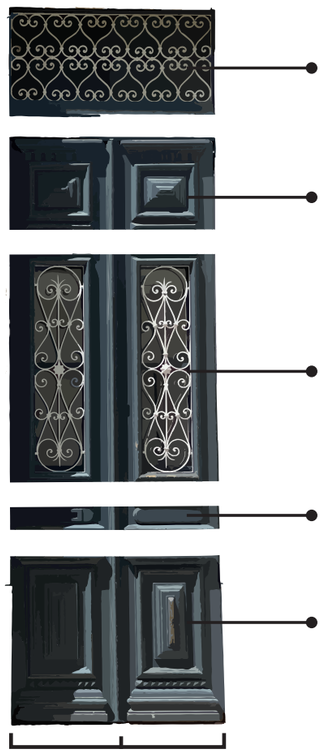
maintain facade:

1. hide the cables under the facade detail and in the wall
2. remove concrete and replace with hydroligic lime plaster
3. plaster facade with hydroligic lime plaster
4. repaint
5. maintain this every 8 years

mantain







glass or shutter for daylight light and nightcooling

accent / wooden detail

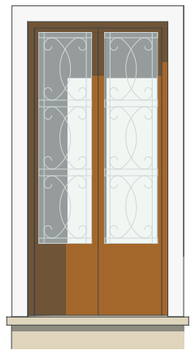
glass window covered with elegant metal frame

letterbox or hand grip

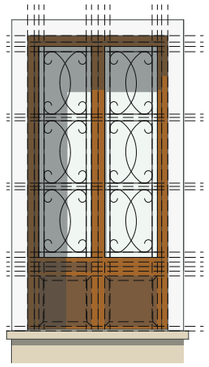
accent / wooden detail

two small doors

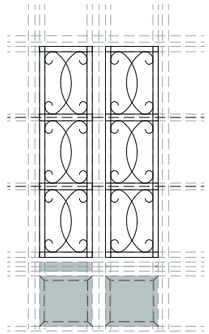
Rua do Bocage 104



original door



analysing the door

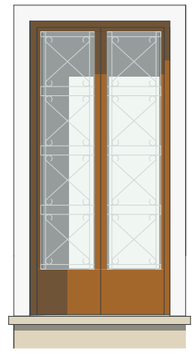


the grid

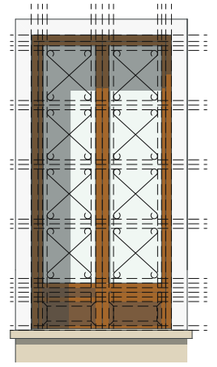


new door

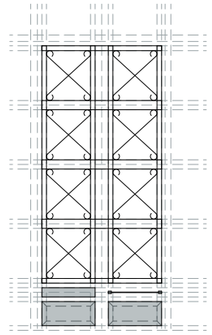
Rua do Bocage 106



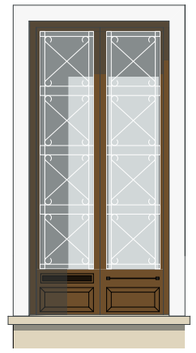
original door



analysing the door



the grid



new door

Pictures matched to Rua do Bocage 106:

3.1	- Wooden rectangular door	**1,00**
1.9	- Wooden window frame	0,83
3.10	- One story building street	0,20

Pictures matched to Rua do Bocage 104:

3.1	- Wooden rectangular door	**1,00**
2.2	- Single door and two window facade	0,57
1.9	- Wooden window frame	0,83
3.10	- One story building street	0,20



door

Pictures matched to Rua do Bocage 106:

3.1	- Wooden rectangular door	1,00
1.9	- Wooden window frame	**0,83**
2.9	- Blinds	**0,74**
3.10	- One story building street	0,20

Pictures matched to Rua do Bocage 104:

3.1	- Wooden rectangular door	1,00
2.2	- Single door and two window facade	0,57
1.9	- Wooden window frame	**0,83**
2.9	- Blinds	**0,74**
3.10	- One story building street	0,20



window

Pictures matched to Rua do Bocage 106:

3.1	- Wooden rectangular door	1,00
1.9	- Wooden window frame	0,83
2.9	- Blinds	0,74
3.10	- One story building street	**0,20**

Pictures matched to Rua do Bocage 104:

3.1	- Wooden rectangular door	1,00
2.2	- Single door and two window facade	0,57
1.9	- Wooden window frame	0,83
2.9	- Blinds	0,74
3.10	- One story building street	**0,20**



street


43 meter
lantern

Pictures matched to Rua do Bocage 106:

3.1	- Wooden rectangular door	1,00
1.9	- Wooden window frame	0,83
2.9	- Blinds	0,74
3.10	- One story building street	0,20

Pictures matched to Rua do Bocage 104:

3.1	- Wooden rectangular door	1,00
2.2	- Single door and two window facade	0,57
3.5	- Lantern	**0,98**
1.9	- Wooden window frame	0,83
2.9	- Blinds	0,74
3.10	- One story building street	0,20



lantern

Pictures matched to Rua do Bocage 106:

3.1	- Wooden rectangular door	1,00
1.3	- Greenery on the facade	**0,97**
1.9	- Wooden window frame	0,83
2.9	- Blinds	0,74
3.10	- One story building street	0,20

Pictures matched to Rua do Bocage 104:

3.1	- Wooden rectangular door	1,00
2.2	- Single door and two window facade	0,57
1.3	- Greenery on the facade	**0,97**
3.5	- Lantern	0,98
1.9	- Wooden window frame	0,83
2.9	- Blinds	0,74
3.10	- One story building street	0,20

reuse rainwater =



greenery

demolished

built



facade redesign

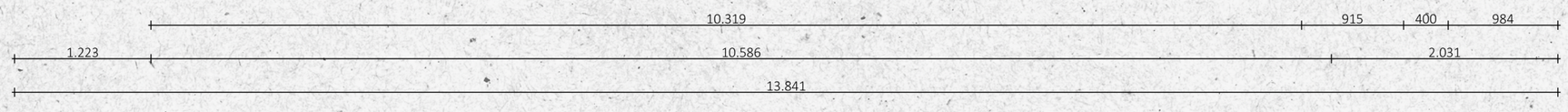


facade redesign

demolished

built





facade redesign



10.319 915 400 984

1.223 10.586 2.031

13.841

facade redesign

The impact assessment



Figure 1. Picture 1.1

	1.1	
Hashtag	Tourist	Locals
Pride		
Memories	6,67%	6,67%
Expensive		
Cheap	6,67%	6,67%
Affordable		
Legal		
Illegal		
Typical	33,33%	40,00%
Authentic	33,33%	6,67%
Beautiful	6,67%	6,67%
Ugly		33,33%
Classic	46,67%	20,00%
Innovative		
Aged	86,67%	86,67%
Modern		
Sustainable		
Healthy		

Figure 2. Game result table, picture 1.1

Pride	0,00
Memories	0,07
Expensive	0,00
Cheap	0,07
Affordable	0,00
Legal	0,00
Illegal	0,00
Typical	0,37
Authentic	0,20
Beautiful	0,07
Ugly	0,17
Classic	0,33
Innovative	0,00
Aged	0,87
Modern	0,00
Sustainable	0,00
Healthy	0,00
Total	10,71%
	0,40%

Figure 3. Facade appreciation Result table, picture 1.1

Positive

Negative



Pictures matched to Rua do Bocage 106:

1.1	- Rusted metal door	0,40
1.6	- Dirty window and damages wal	0,00
1.9	- Wooden window frame	0,83
3.10	- One story building street	0,20
	average score:	*0,35*

Pictures matched to Rua do Bocage 104:

1.1	- Rusted metal door	0,40
2.2	- Single door and two window facade	0,57
1.6	- Dirty window and damages wall	0,00
1.9	- Wooden window frame	0,83
3.10	- One story building street	0,20
	average score:	*0,40*

facade appreciation before redesign



Pictures matched to Rua do Bocage 106:

3.1	- Wooden rectangular door	1,00
1.3	- Greenery on the facade	0,97
1.9	- Wooden window frame	0,83
2.9	- Blinds	0,74
3.10	- One story building street	0,20
	average score:	0,75

Pictures matched to Rua do Bocage 104:

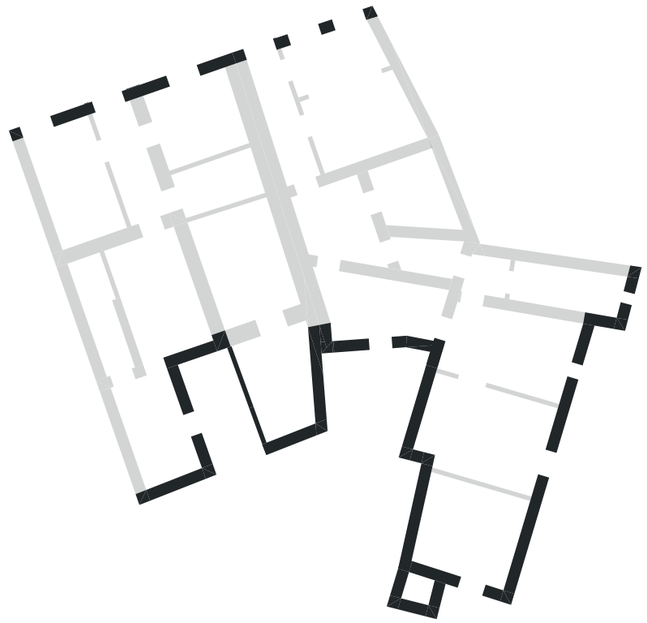
3.1	- Wooden rectangular door	1,00
2.2	- Single door and two window facade	0,57
1.3	- Greenery on the facade	0,97
3.5	- Lantern	0,98
1.9	- Wooden window frame	0,83
2.9	- Blinds	0,74
3.10	- One story building street	0,20
	average score:	0,76

facade appreciation after redesign



plan of the houses







does have a window and daylight

does not have a window and daylight

daylight analysis

direct sunlight analysis



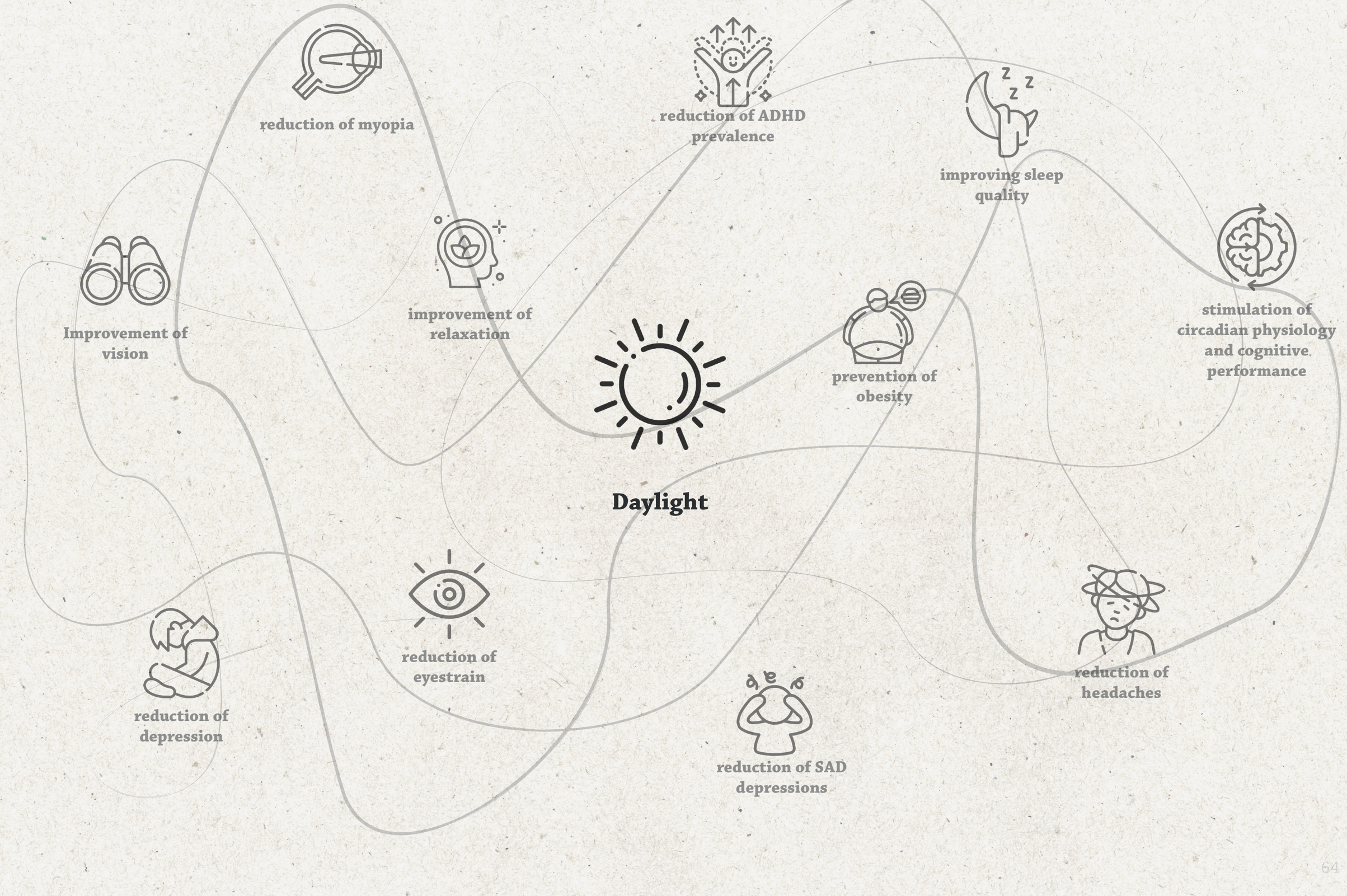
not enough daylight

complies with only one rule

enough daylight

sunlight calculation

Boyce et al., 2003
"Daylight and health: A review of the evidence and consequences for the built environment"





Design Based on Values

“In the sphere of cultural heritage, the preservation values are critical deciding what to preserve and how”

More and Affordable Housing

“Relieve tension on the housing market and lack of affordable housing”

Future Proof

“Protect and preserve heritage for future generations”

Redesign of Built Heritage

Arias-Arévalo et al., 2017
"Exploring intrinsic, instrumental, and relational values for sustainable management of social-ecological systems"



Design Based on Values

"In the sphere of cultural heritage, the preservation values are critical deciding what to preserve and how"

Values of Community

Different groups and individuals attach different weight to the values, and different levels of relevance to the same cultural heritage asset.

The range of values ascribed to a cultural heritage asset and justifying its designated status.

Instrumental Values

Instrumental value: The value of an entity as merely a means to an end.

Respondents' references to economic development and monetary benefits where coded as instrumental values.

area

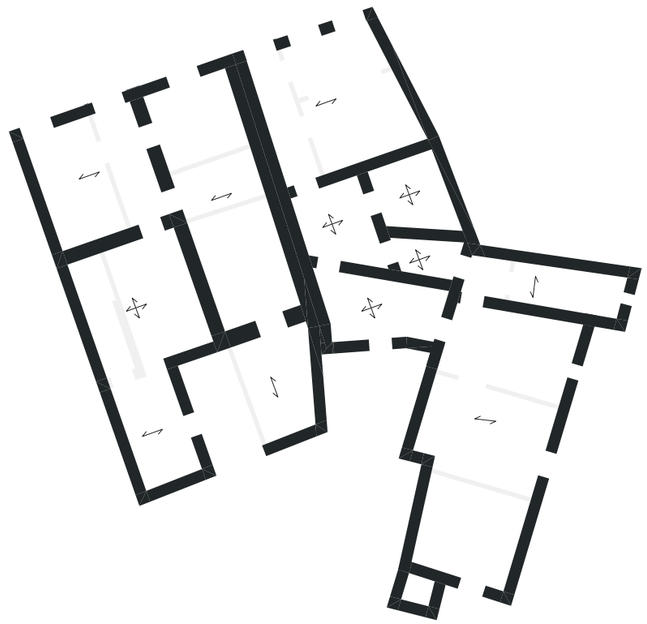
problem area



does have a window and daylight

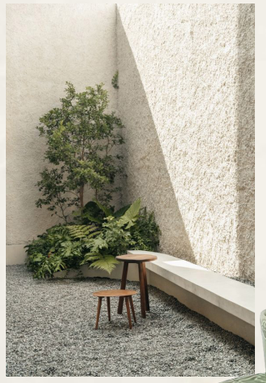
does not have a window and daylight

solution



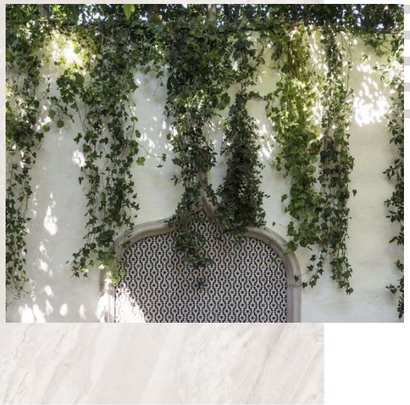
Berg, M. van den et al., 2015
Rautio,N et al., 2018
D'Alessandro et al., 2022







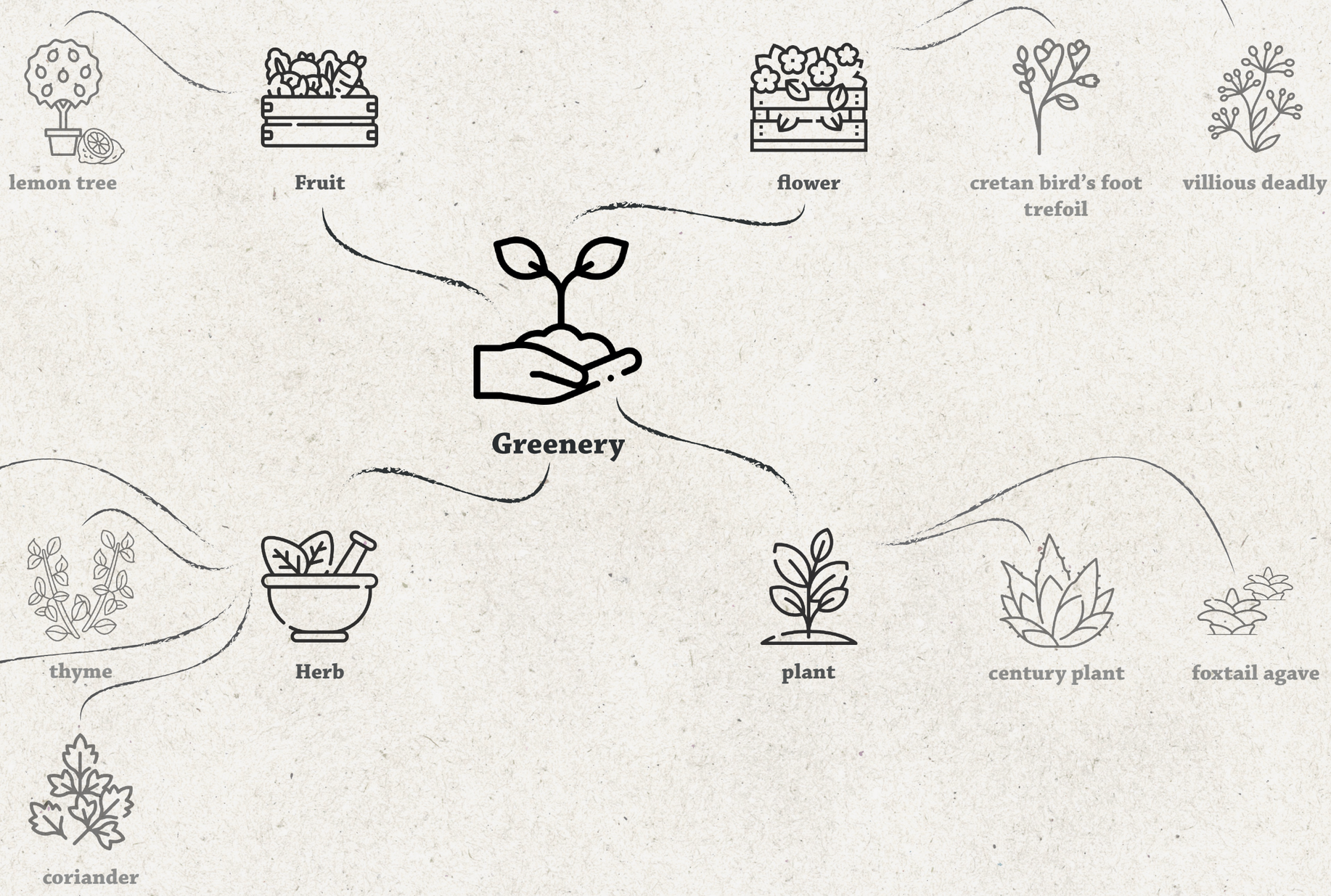







= reducing urban heat isle

patio moodboard


lemon tree
Fruit
flower
cretan bird's foot trefoil
villious deadly
Greenery
parsley
thyme
Herb
plant
century plant
foxtail agave
rosemary
coriander

greenery

= reducing urban heat isle

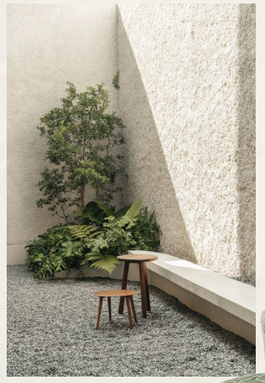
























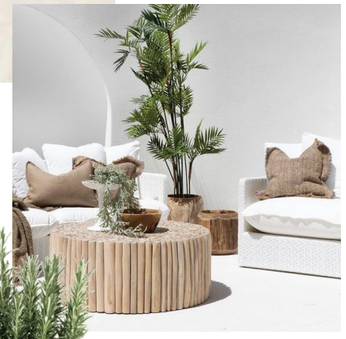














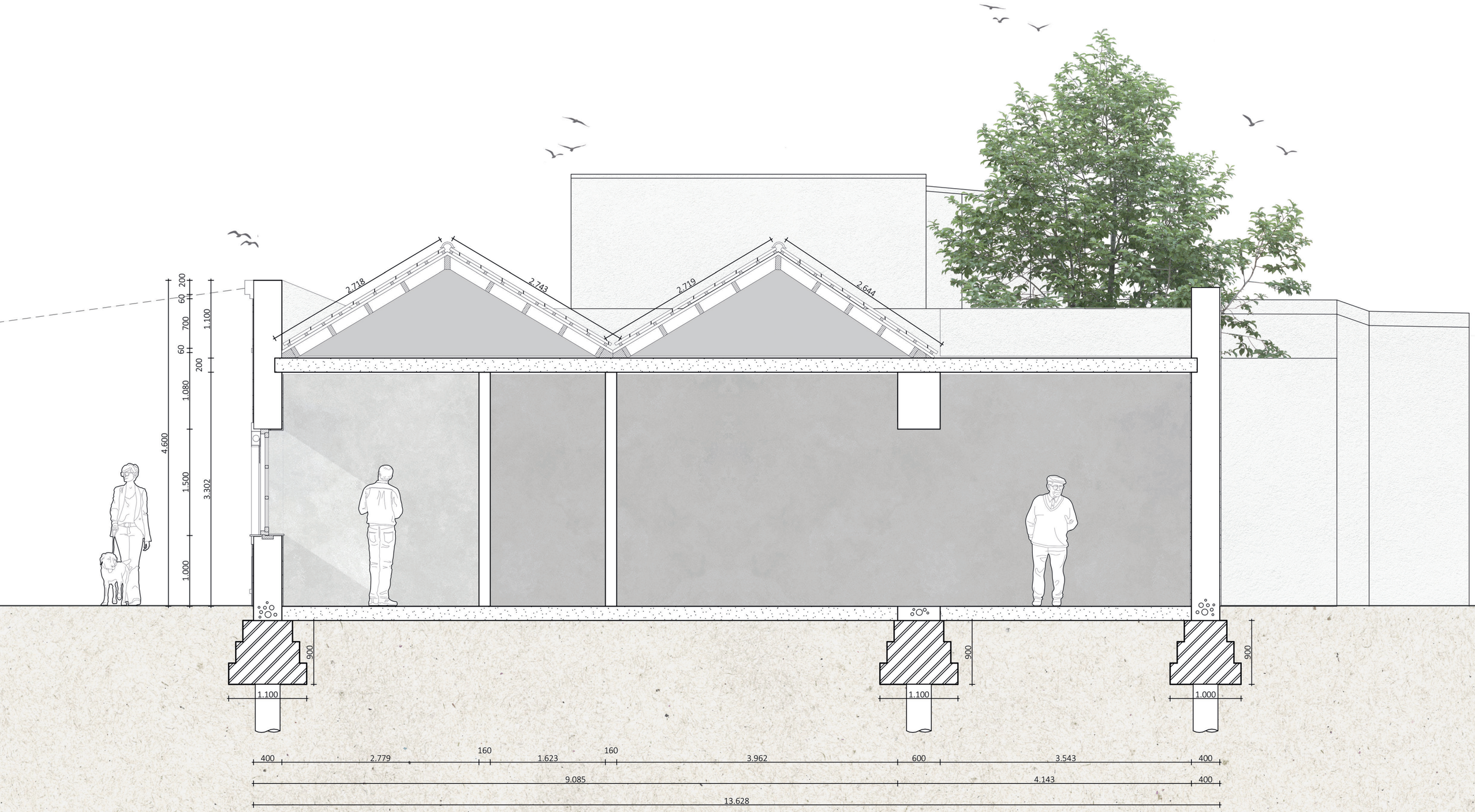




patio moodboard + greenery



Section B-B



section B-B, before the redesign

demolished

built



section B-B, red abd yellows

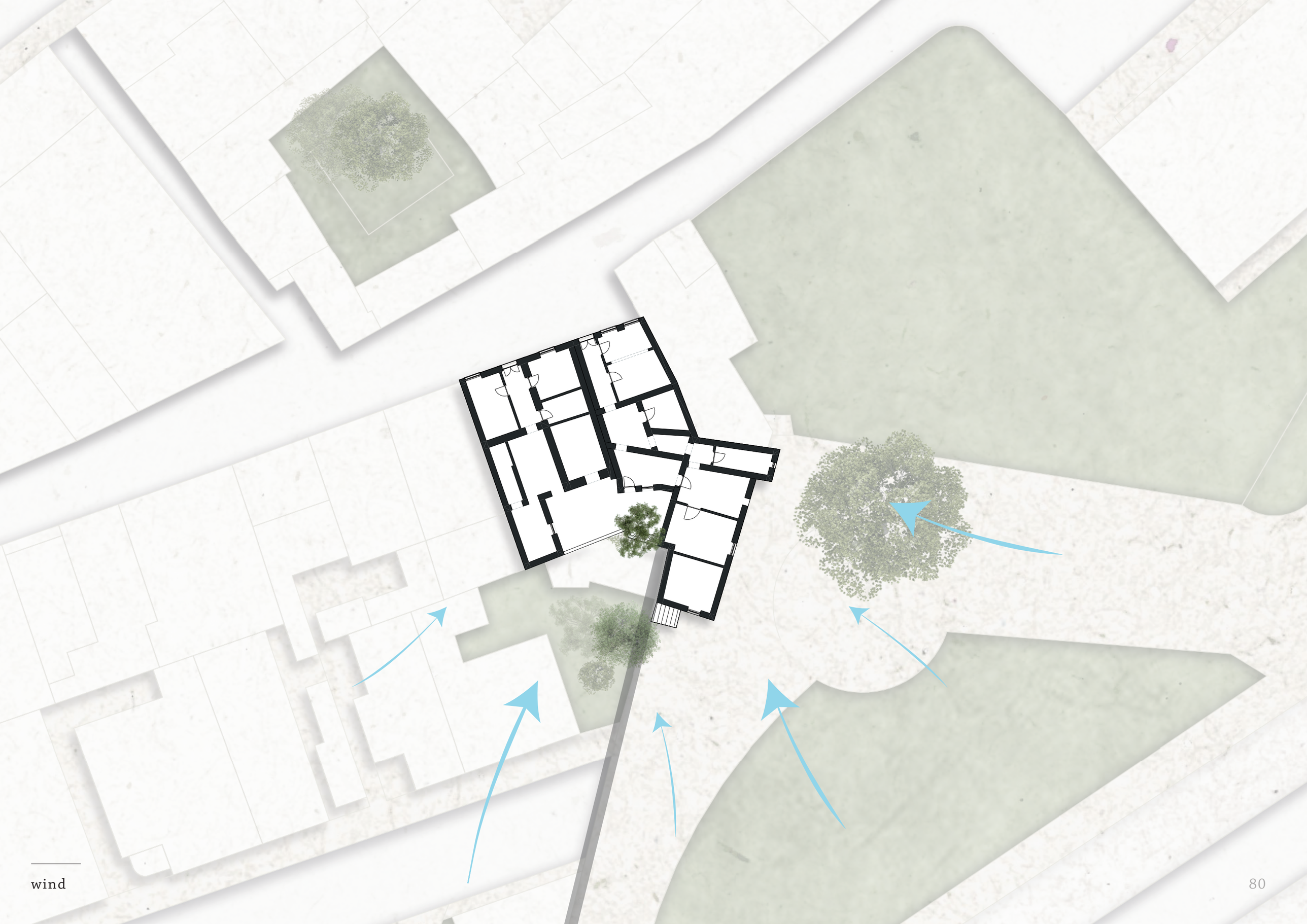
= reducing energy with
natural daylight



section B-B, after the redesign

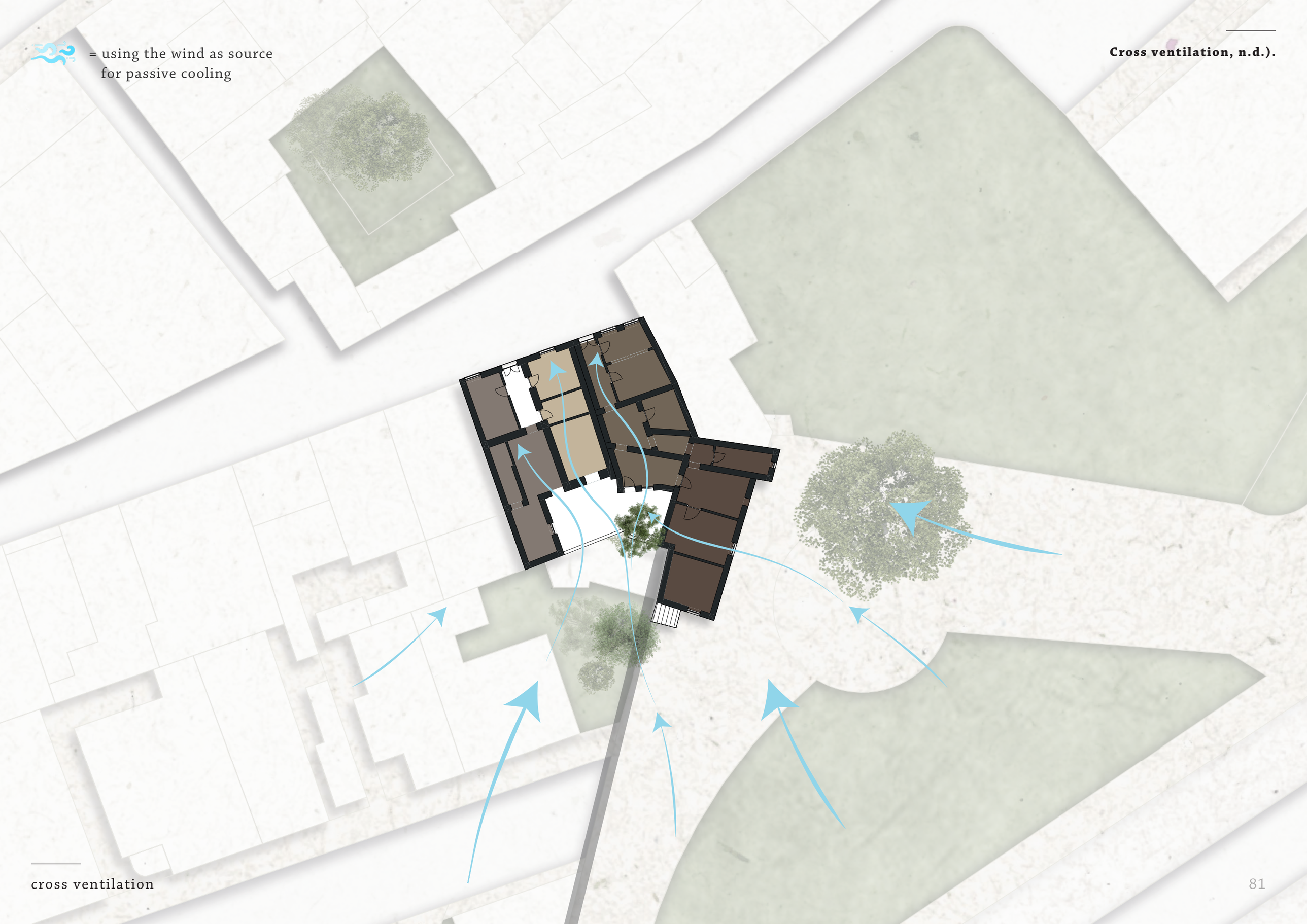
“ **a** Luz **na Casa** ”

affordable housing



wind

= using the wind as source for passive cooling



Cross ventilation, n.d.).

cross ventilation



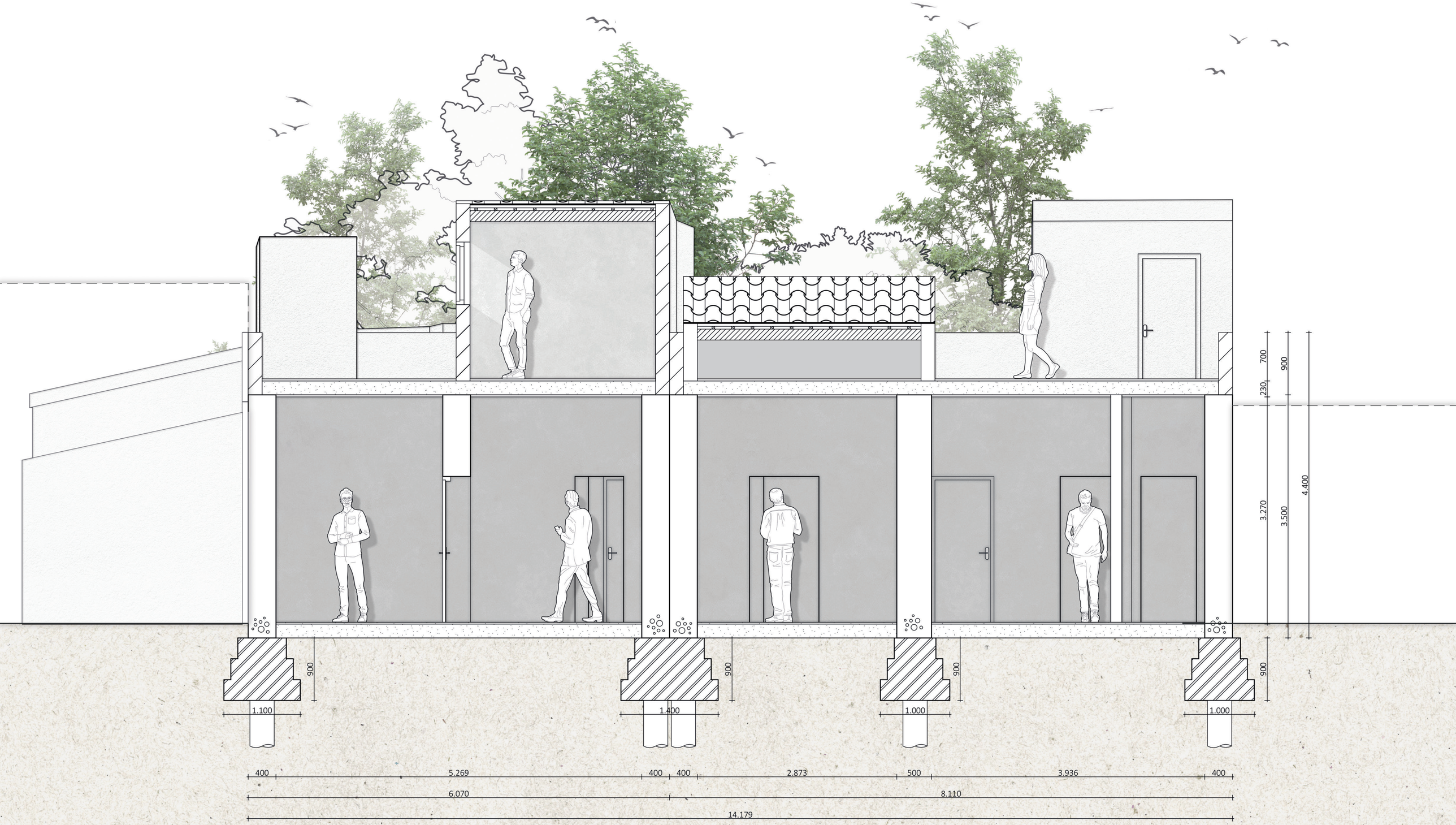
design option A



design option B



design option C



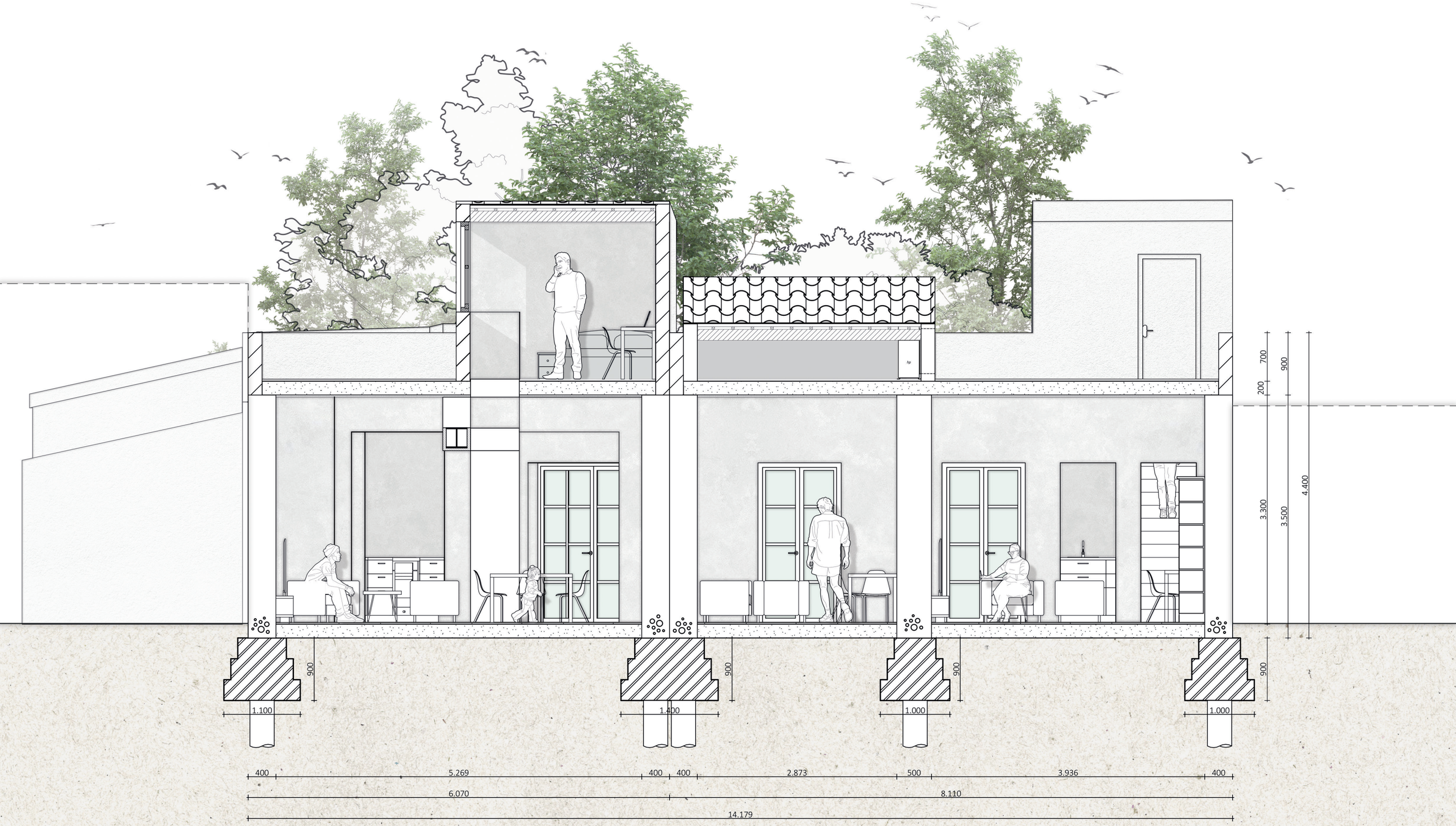
section C-C, before the redesign

demolished

built



section C-C | red and yellows



section C-C, after the redesign



interior view



design option D



the patio

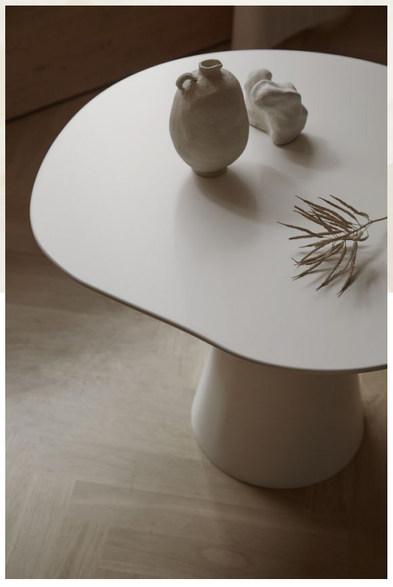


















interior view



ground floor | before the redesign

demolished

built



ground floor | red and yellows


B
13.435
8.276
5.160
400
1.130
1.546
1.100
1.650
1.130
1.320
402
1.627
1.130
510
1.130
350
A
A
C
C
hp
hp
hp
hp
B
5.070
4.080
5.700
13.860
4.168
500
4.194
400
3.782
416
416
2.094
386
1.869
160
2.146
7.070
2.038
823
5.150
1.801
388
900
1.060
4.149
1.083
969
461
929
400
1.484
2.799
2.300
531
125
2.929
160
3.219
10.189
10.317
13.841
160
3.673
841
383
1.214
1.223



first floor | before the redesign



first floor | red and yellows

first floor | before the redesign



reducing energy use

=



= reducing energy use with natural daylight

+



= using the wind as source for passive cooling

+



= reducing urban heat isle

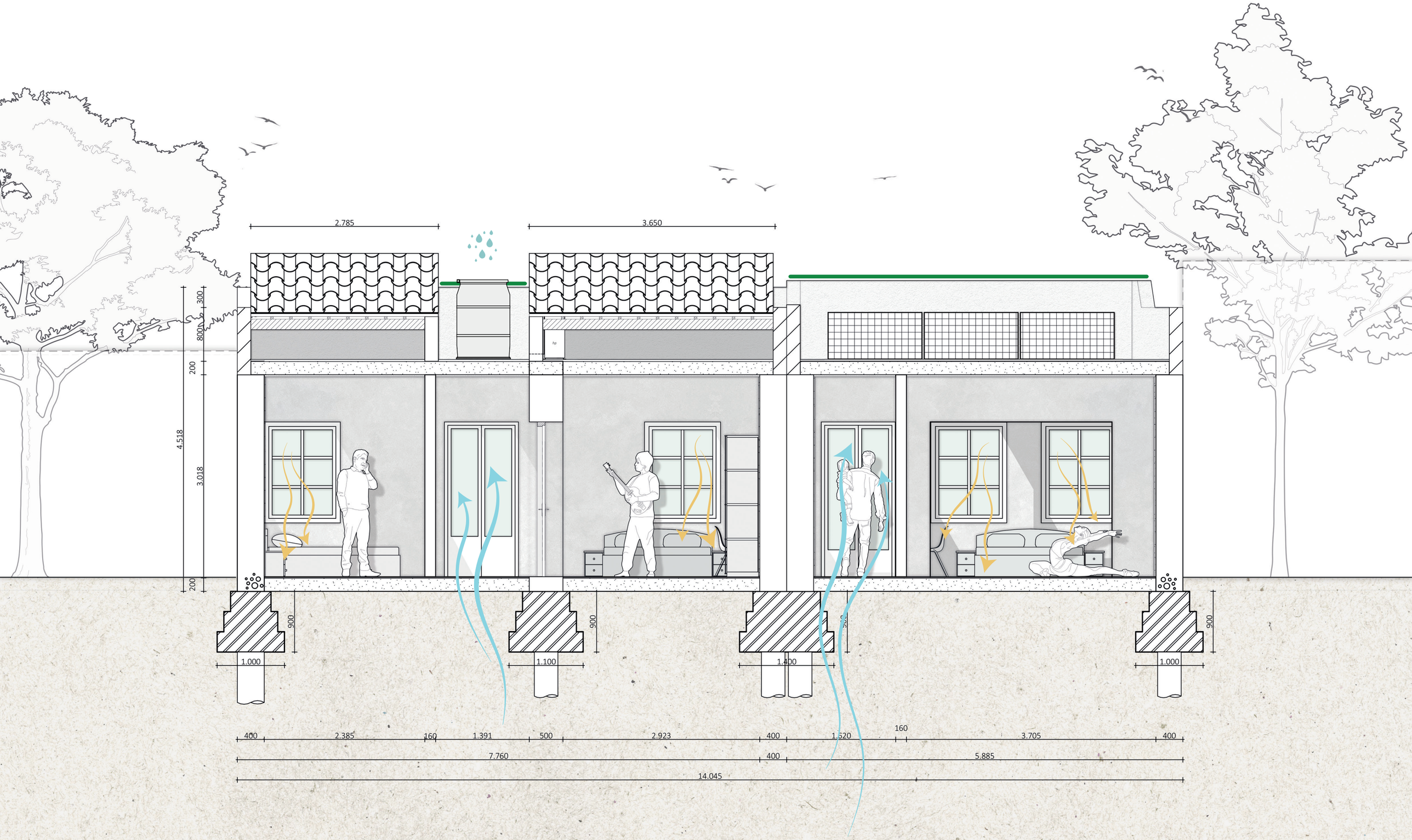
+



= reuse rainwater



section C-C, before the redesign



section C-C, reducing energy use



renewable energy

=

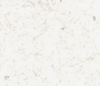


= solar panels

+



= air - water heat pump





= warm/ cold tap water



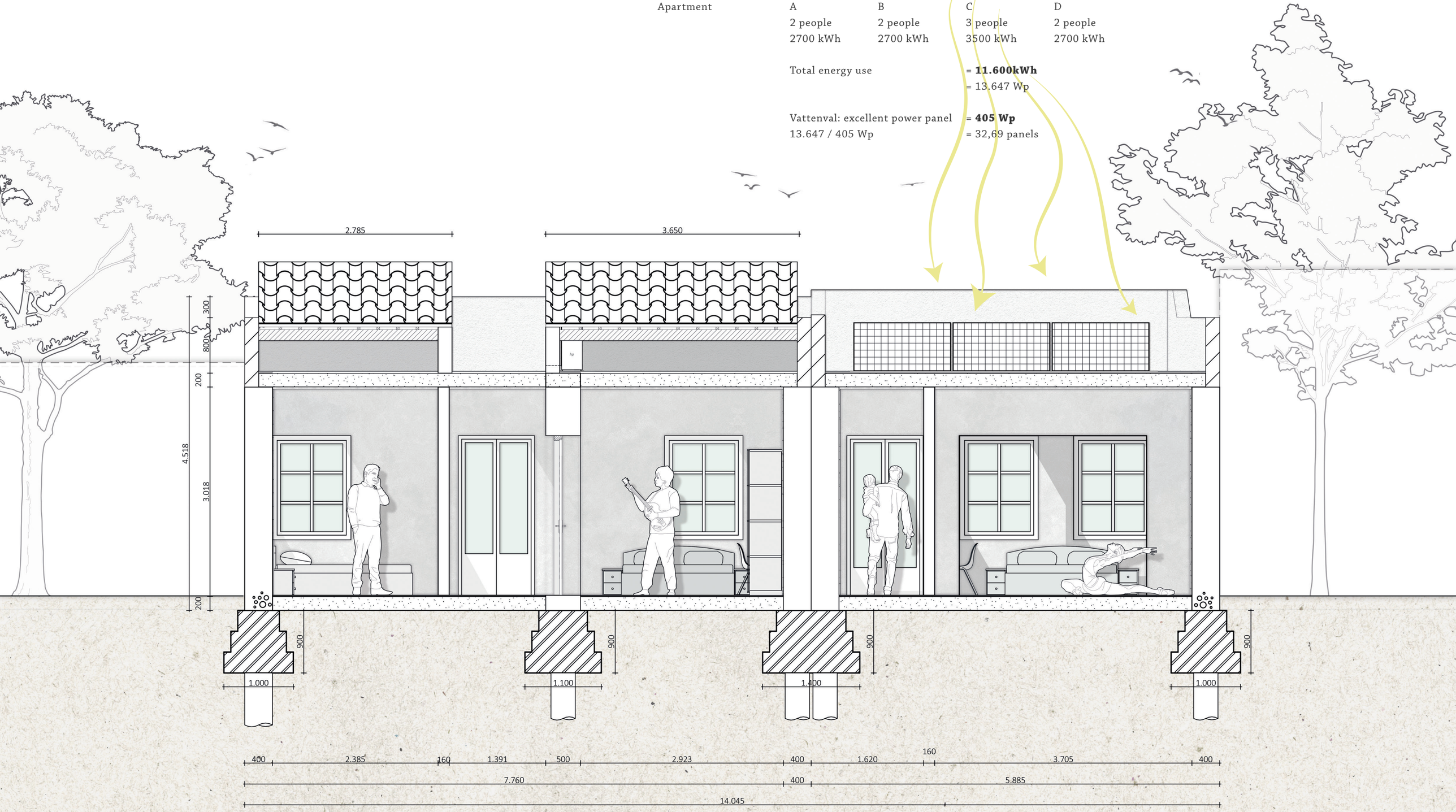
= heating / cooling

Solar panel calculation

Apartment	A	B	C	D
	2 people	2 people	3 people	2 people
	2700 kWh	2700 kWh	3500 kWh	2700 kWh

Total energy use = **11.600kWh**
= 13.647 Wp

Vattenval: excellent power panel = **405 Wp**
13.647 / 405 Wp = 32,69 panels



section C-C, solar panels



section C-C, air water heat pump



renewable
energy

= solar panels

= air - water heat pump

= warm/ cold tap water

= heating / cooling



section C-C, heating and cooling ceiling



heating / cooling ceiling

=



= heating and cooling with one system

+



= directly perceptible radiant heat

+



= low air circulation, healthy indoor climate

+



= even heat/ cold distribution

+

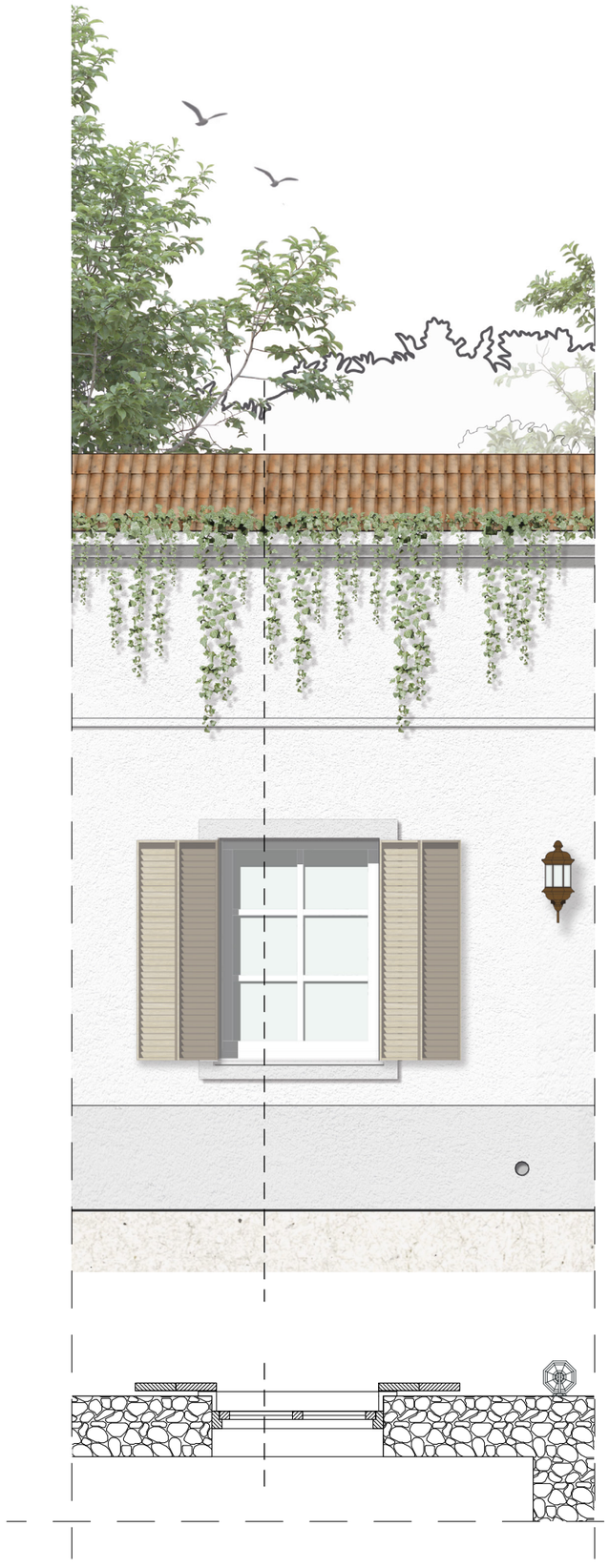


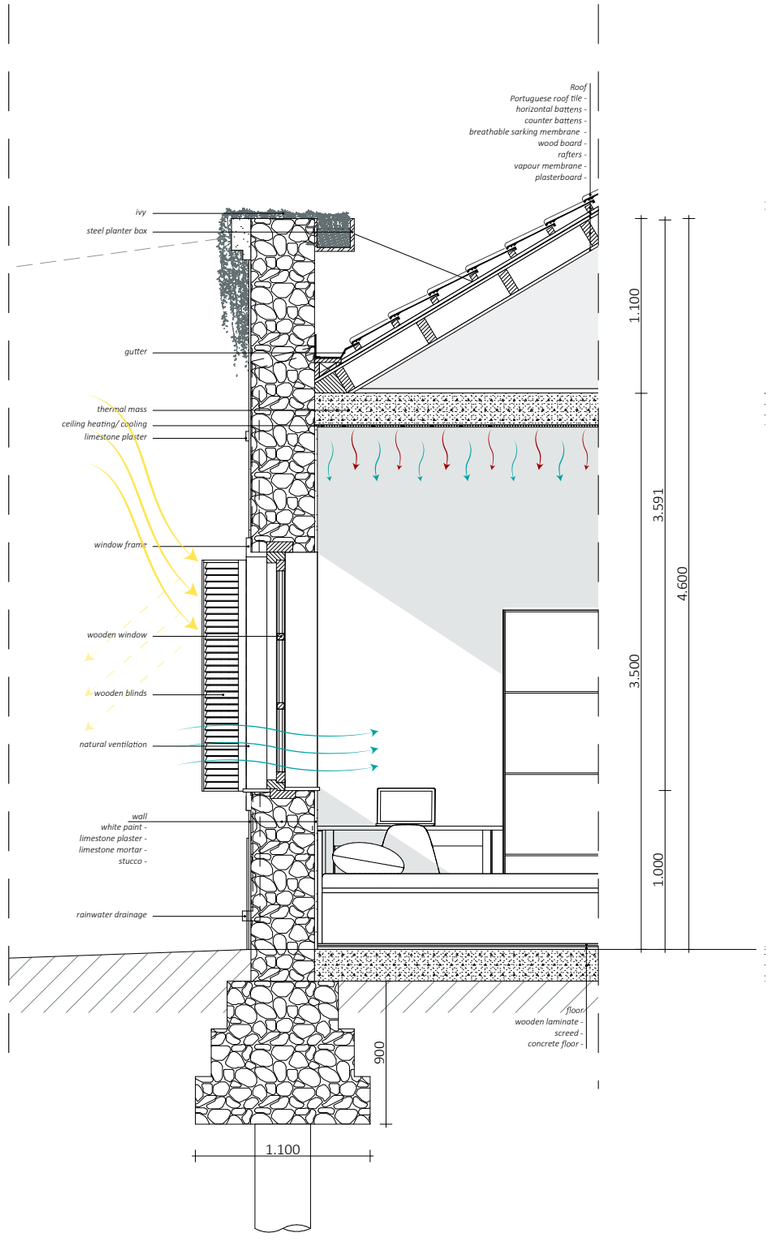
= low energy costs

+



= warm feet



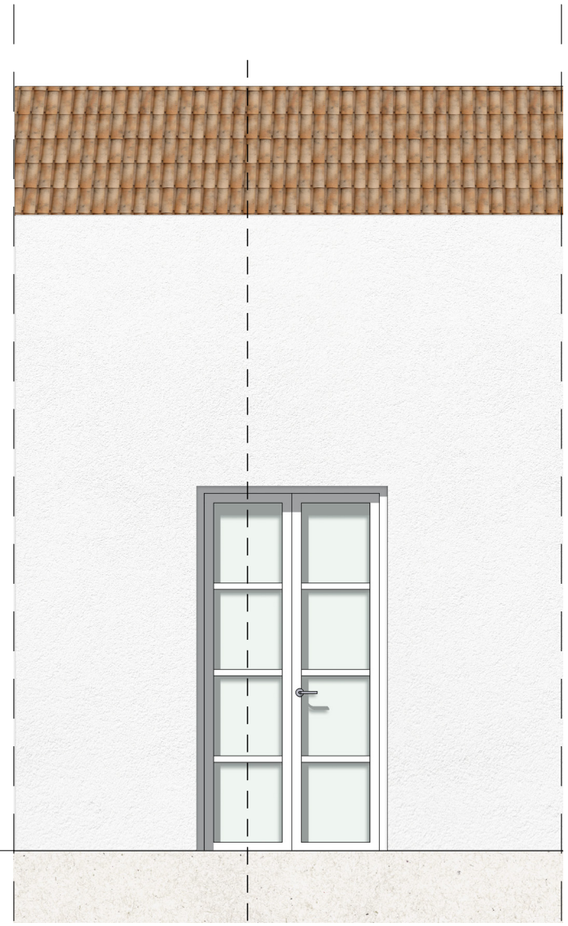

Roof
Portuguese roof tile -
horizontal battens -
counter battens -
breathable sarking membrane -
wood board -
rafters -
vapour membrane -
plasterboard -
ivy
steel planter box
gutter
thermal mass
ceiling heating/ cooling
limestone plaster
window frame
wooden window
wooden blinds
natural ventilation
wall
white paint -
limestone plaster -
limestone mortar -
stucco -
rainwater drainage
floor
wooden laminate -
screed -
concrete floor -
1.100
3.591
4.600
3.500
1.000
900
1.100

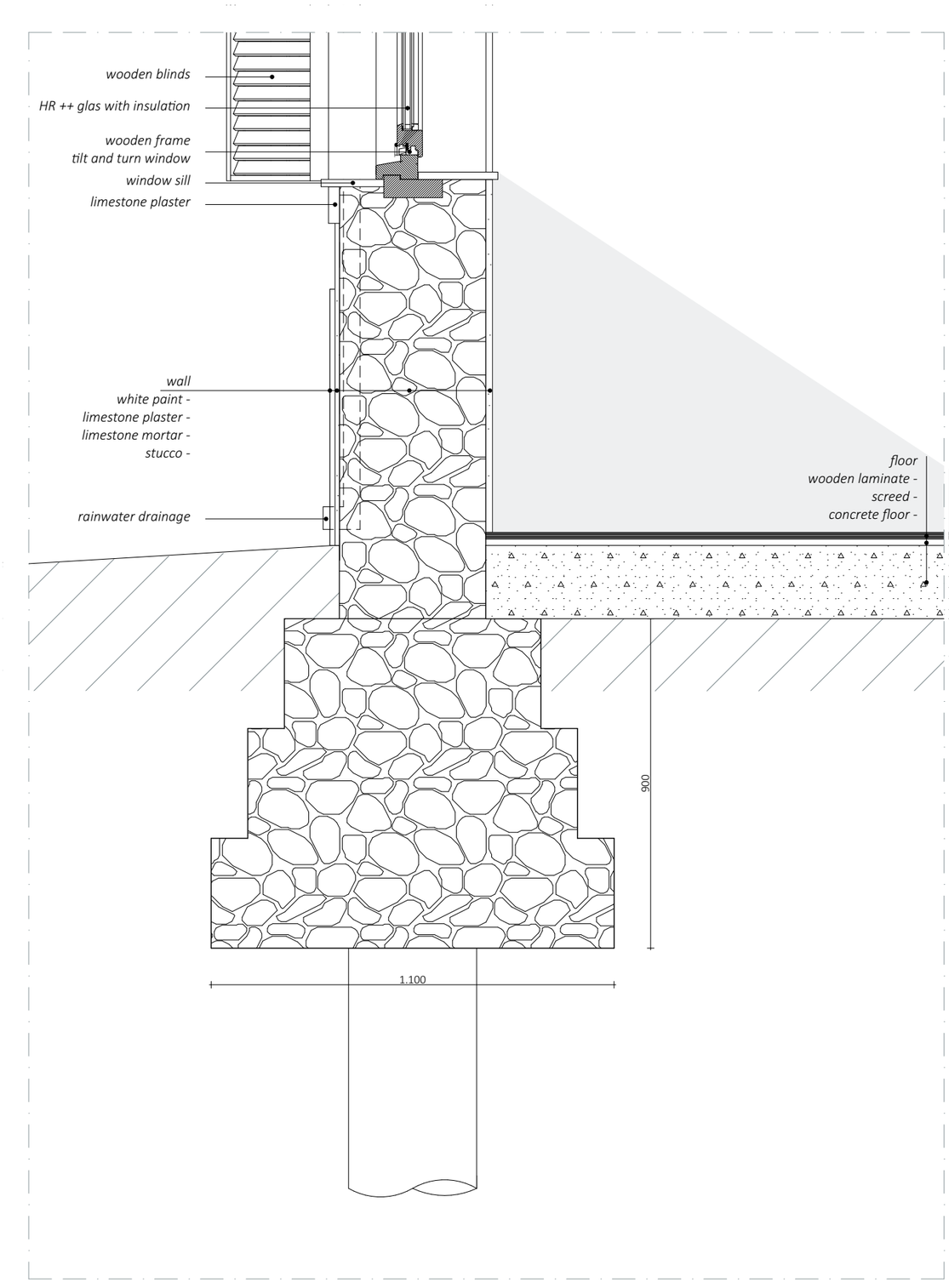
“The past year has been an unforgettable experience. I think going to Portugal and participating in such a graduation project is a once in a life time opportunity and I am very grateful to my teachers who gave me the opportunity to do this.

I have learned and experienced a lot.

Thank you for listening ..


Roof
- Portuguese roof tile
- horizontal battens
- counter battens
- breathable sarking membrane
- wood board
- rafters
- vapour membrane
- plasterboard
gutter
rainwater drainage
ceiling heating/ cooling
thermal mass
wall
- white paint
- limestone plaster
- limestone mortar
- stucco
wooden door
natural ventilation
floor
wooden laminate -
screed -
concrete floor -
700
200
15
200
785
4.000
3.100
2.300
900
1.100




wooden blinds
HR ++ glas with insulation
wooden frame
tilt and turn window
window sill
limestone plaster
wall
white paint -
limestone plaster -
limestone mortar -
stucco -
rainwater drainage
floor
wooden laminate -
screed -
concrete floor -
900
1.100

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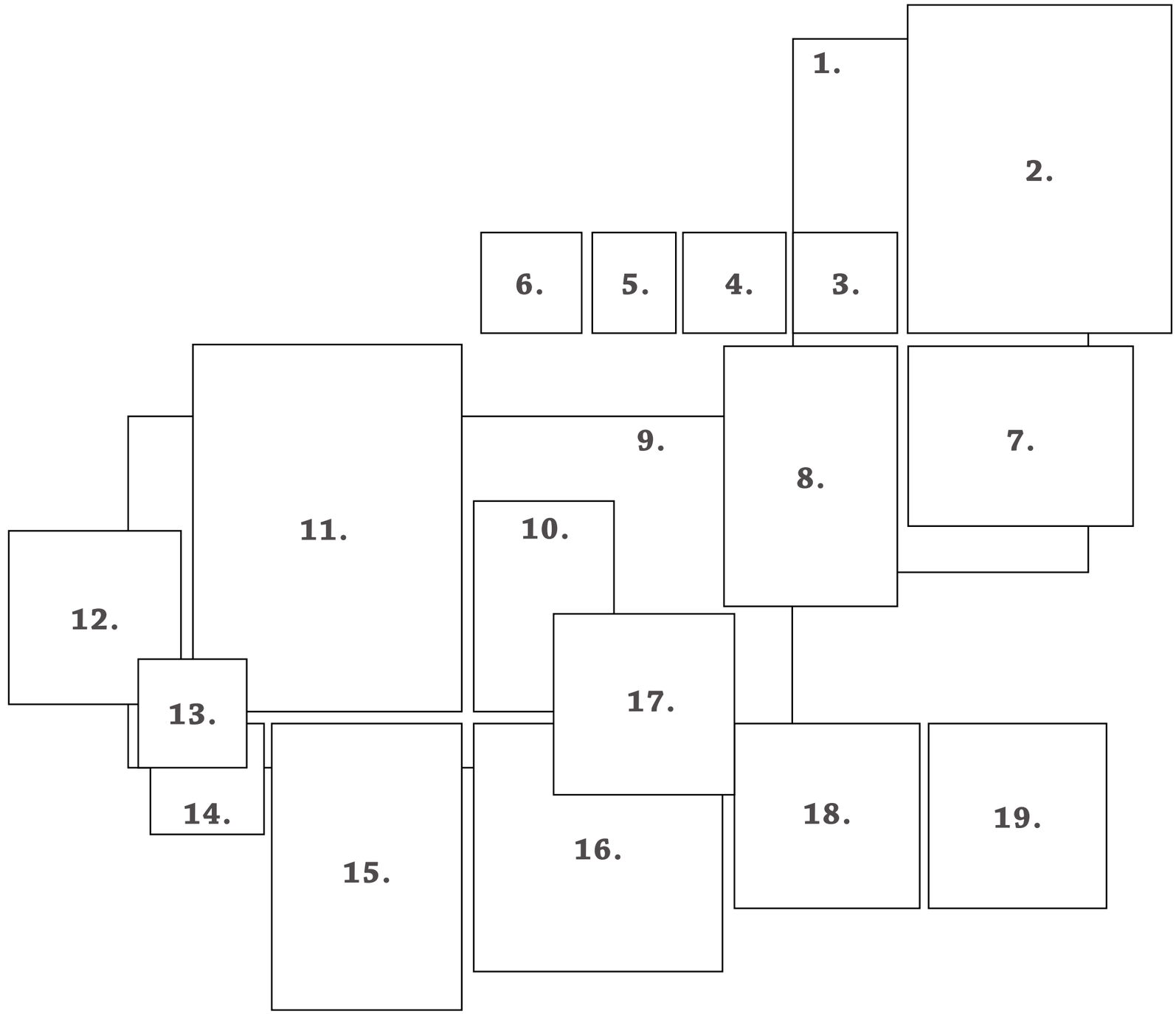

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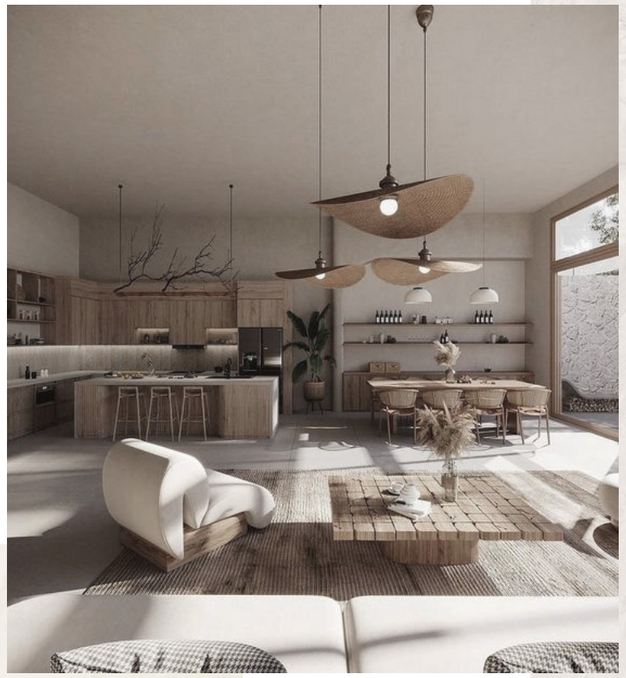





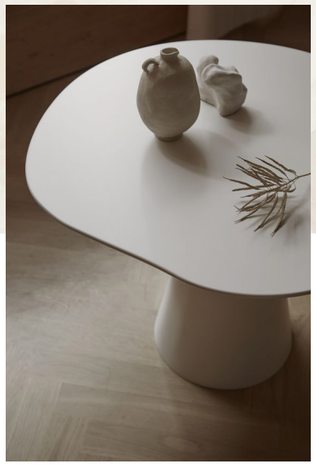





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