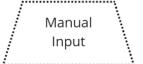
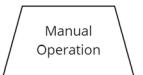
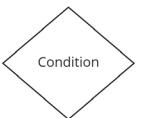
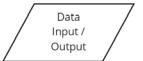
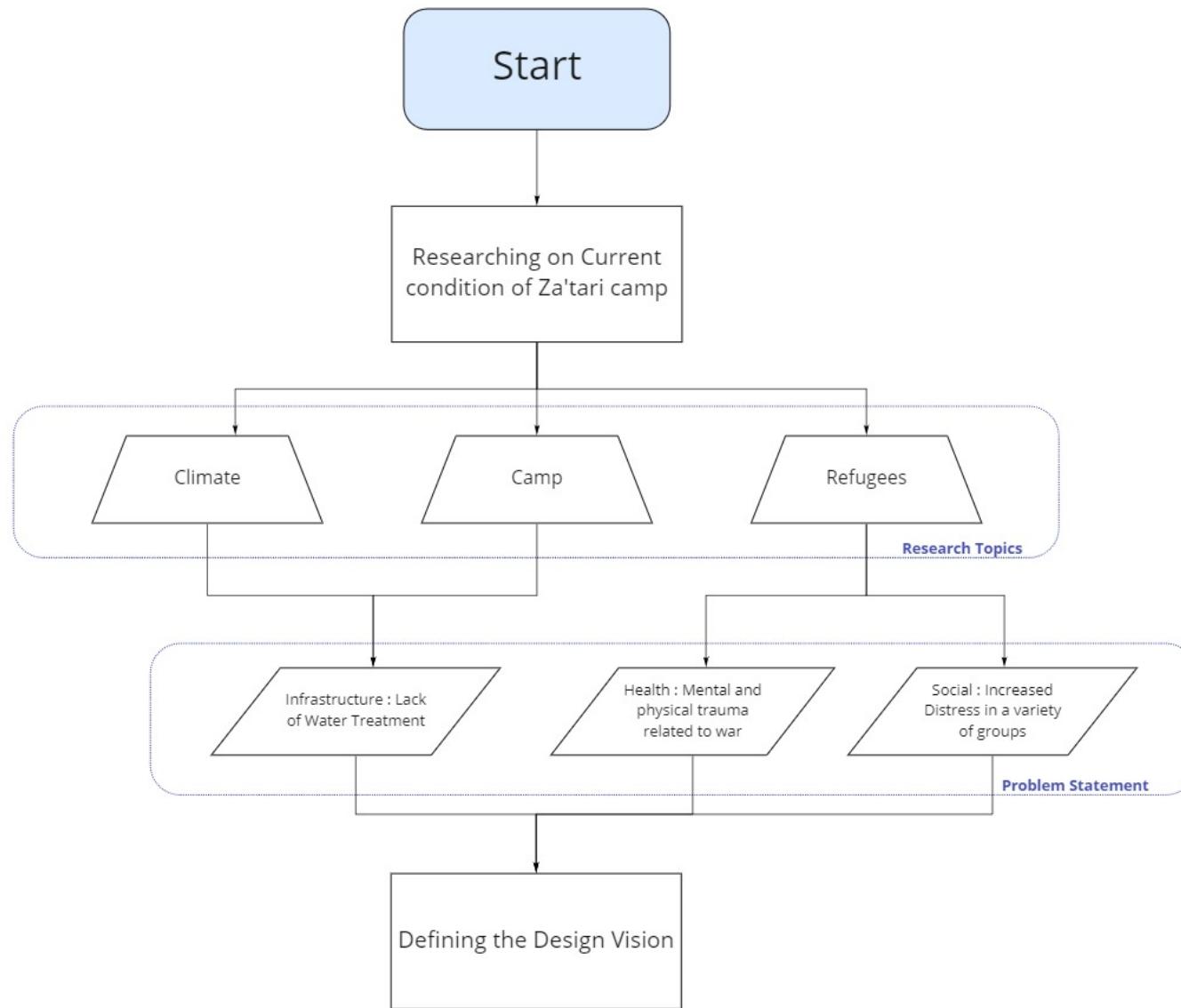


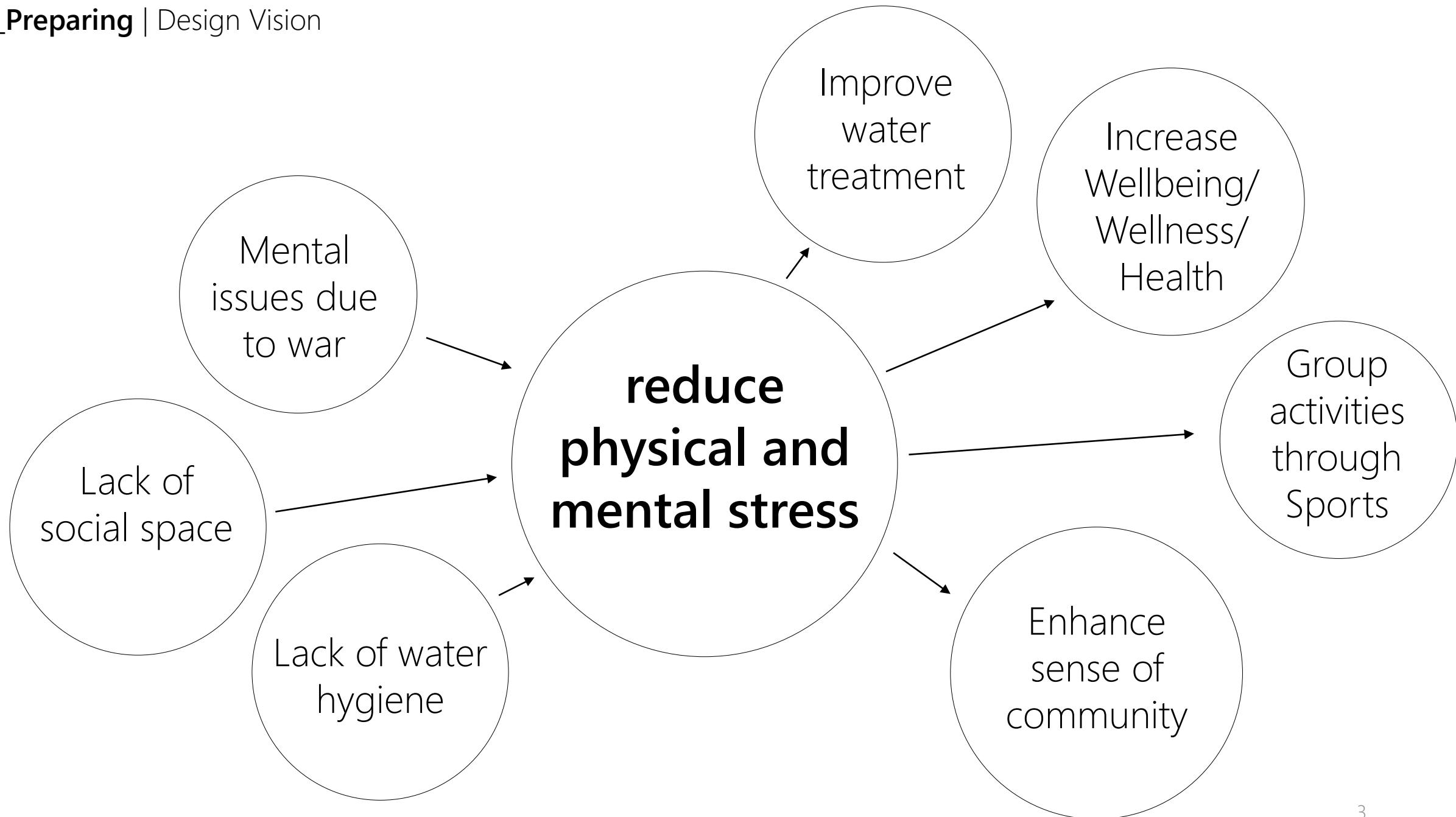
Healing Wounds

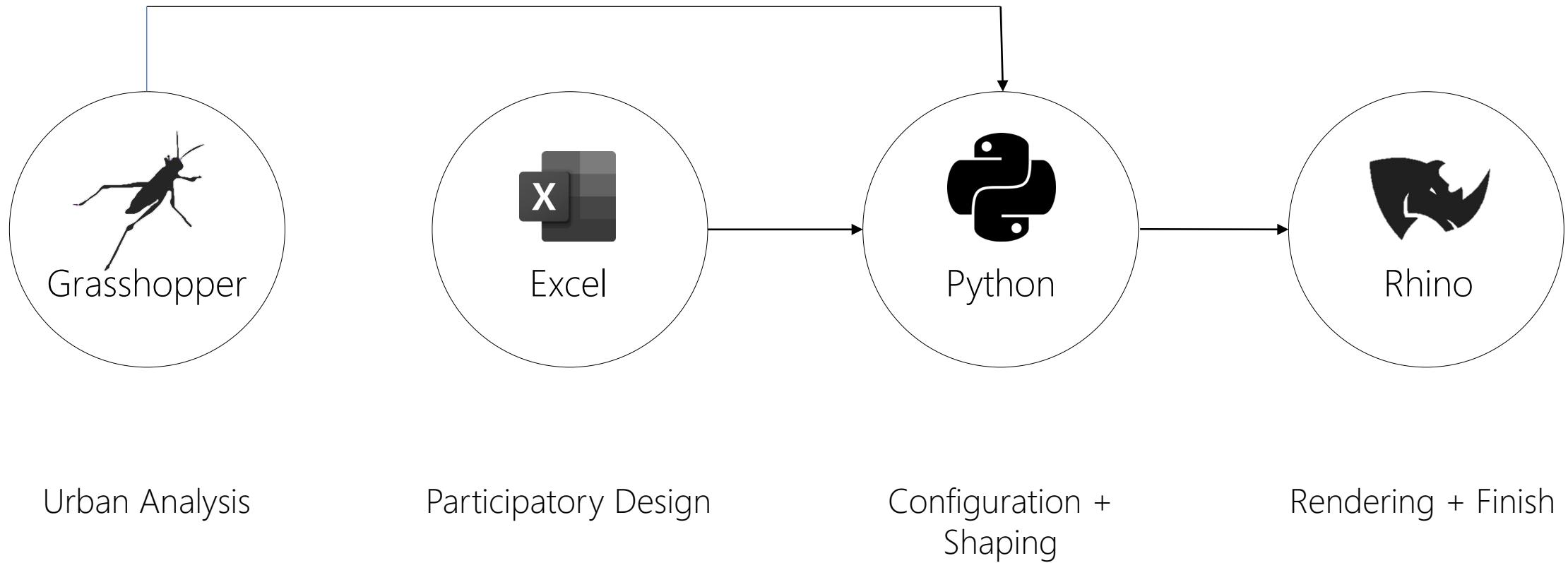
Health + Wellness Center
Midterm Presentation

Alex Coelho - Juan Cruz - Georgina Giassia - Thomas Lindemann – Tim Schumann

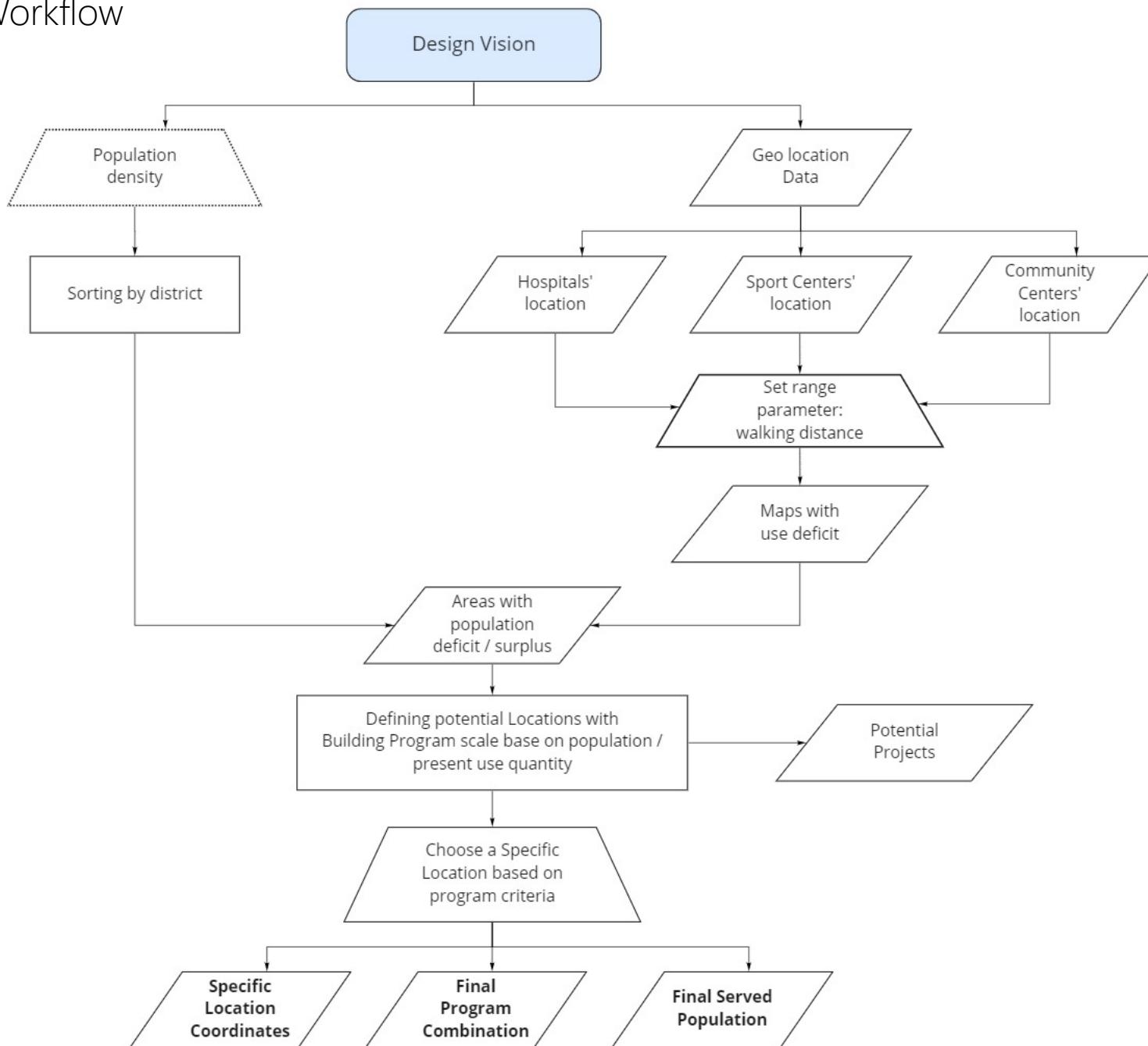
01_Preparing | Problem Statement



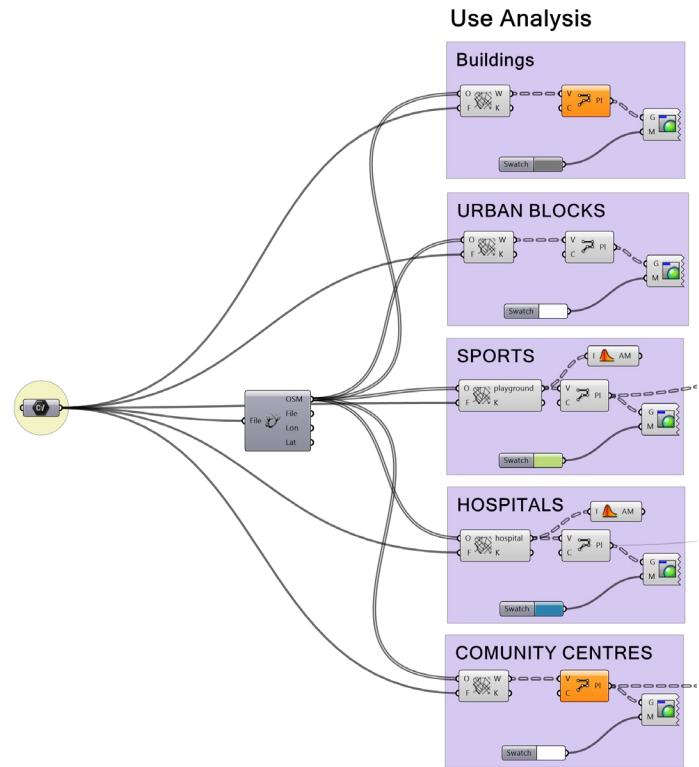




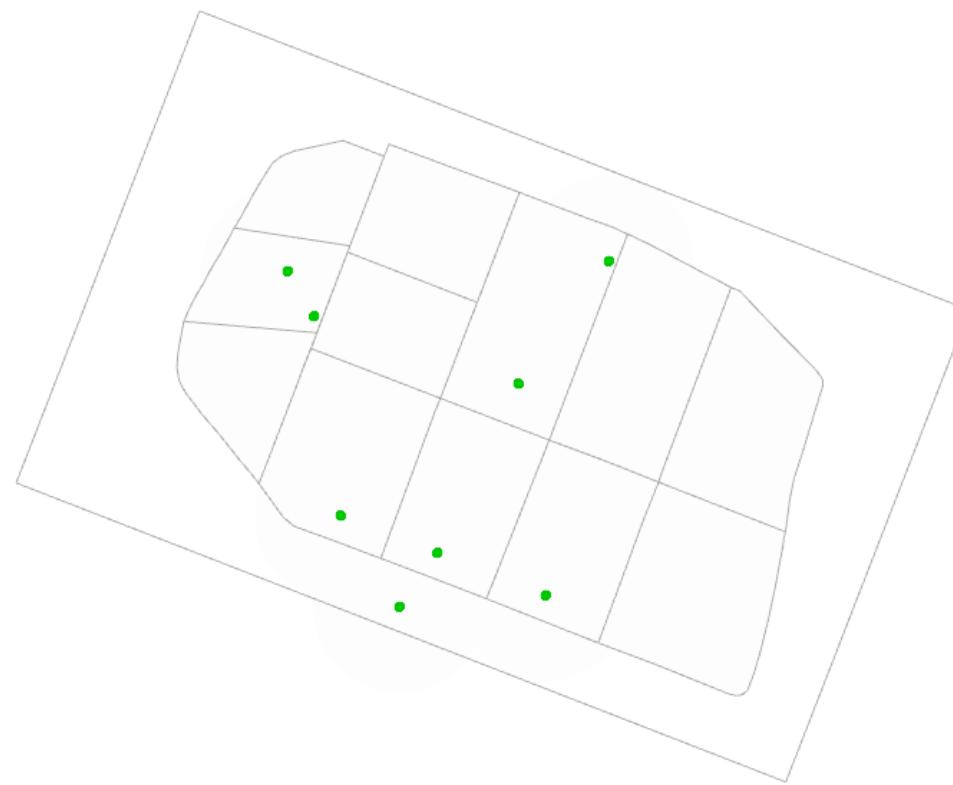
02_Configuring | Urban Workflow



02_Configuring | Urban Parameters

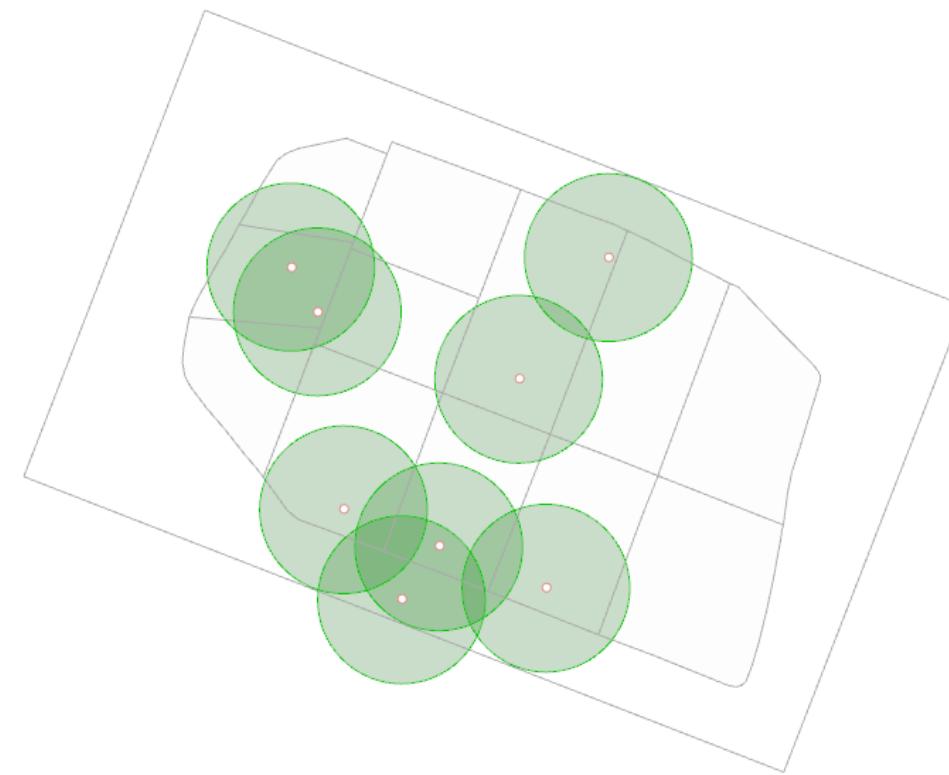
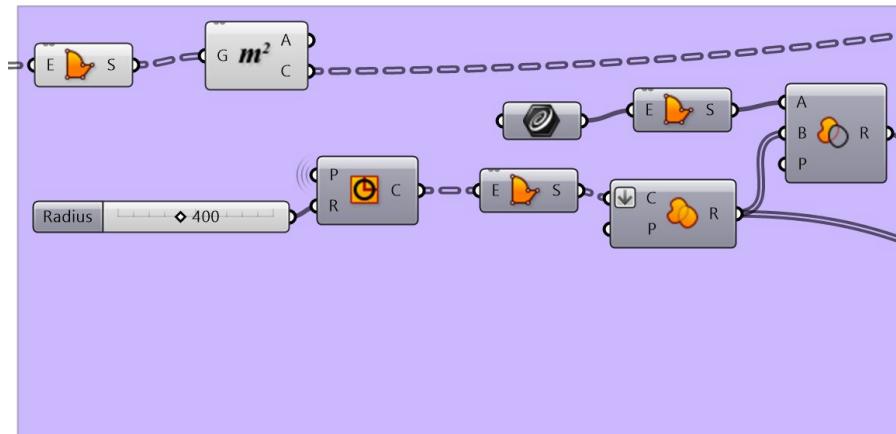


+ Geo Location (open street maps)
+ selection of urban uses
Ex: Sport locations



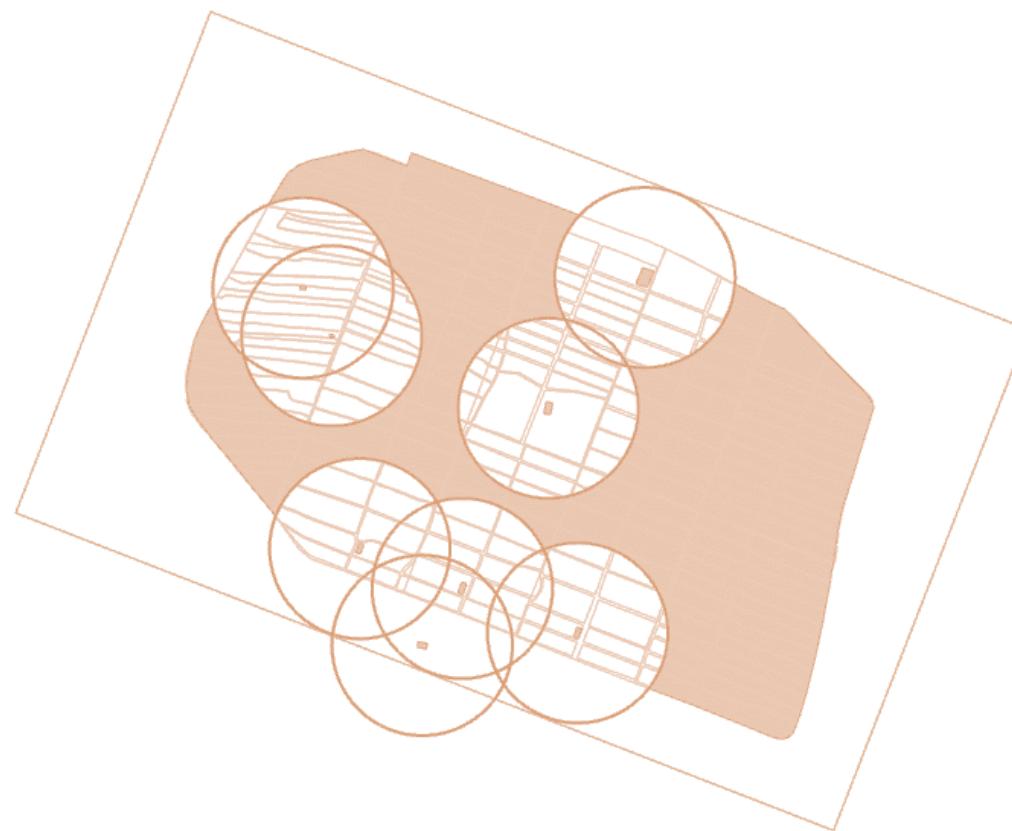
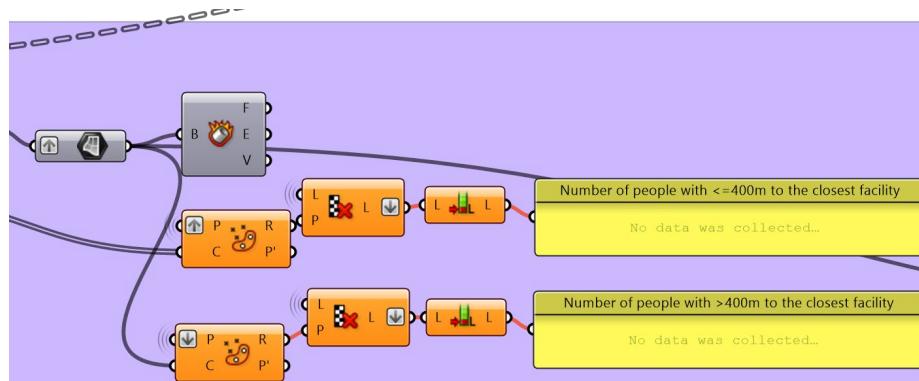
02_Configuring | Range Impact

- + Analysis of impact range
 - + Parameters base on walking distance
- Ex: 400 meters



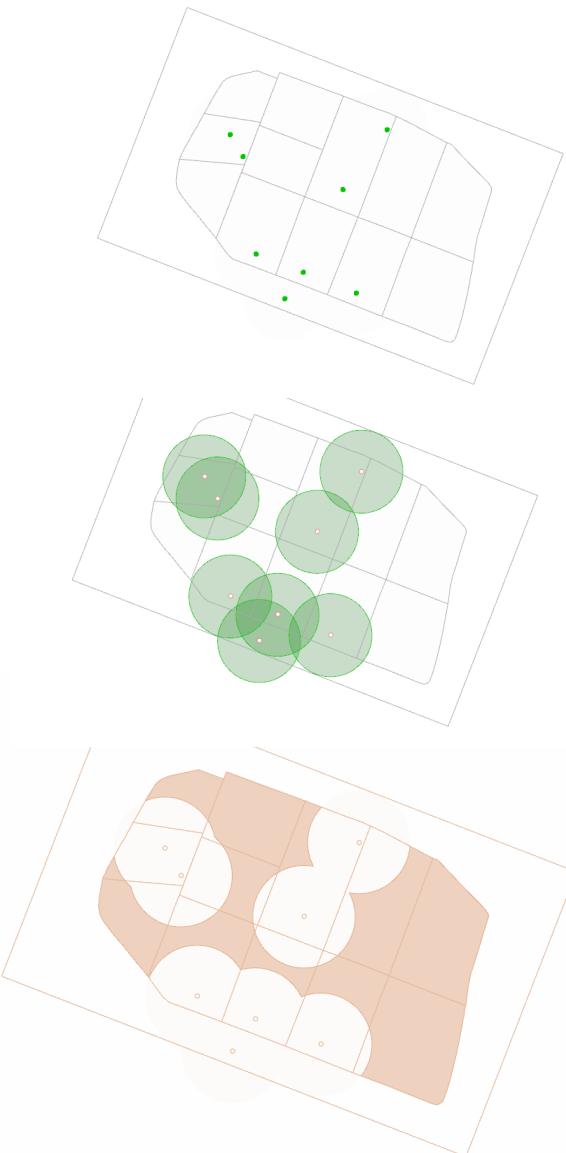
02_Configuring | Areas in Deficit

+ Identification of areas in deficit
Ex: sport facilities

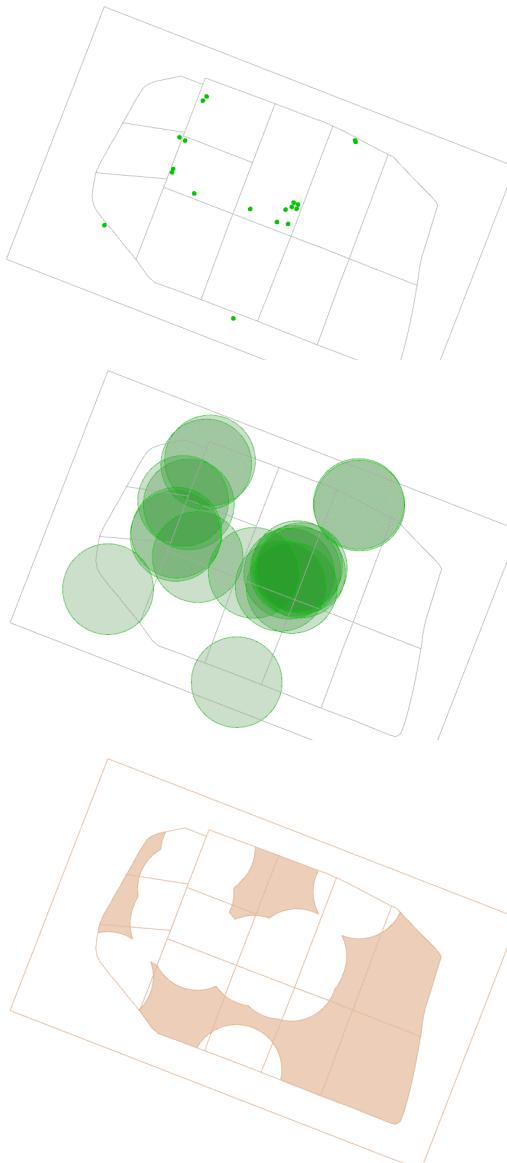


02_Configuring | Areas in Deficit

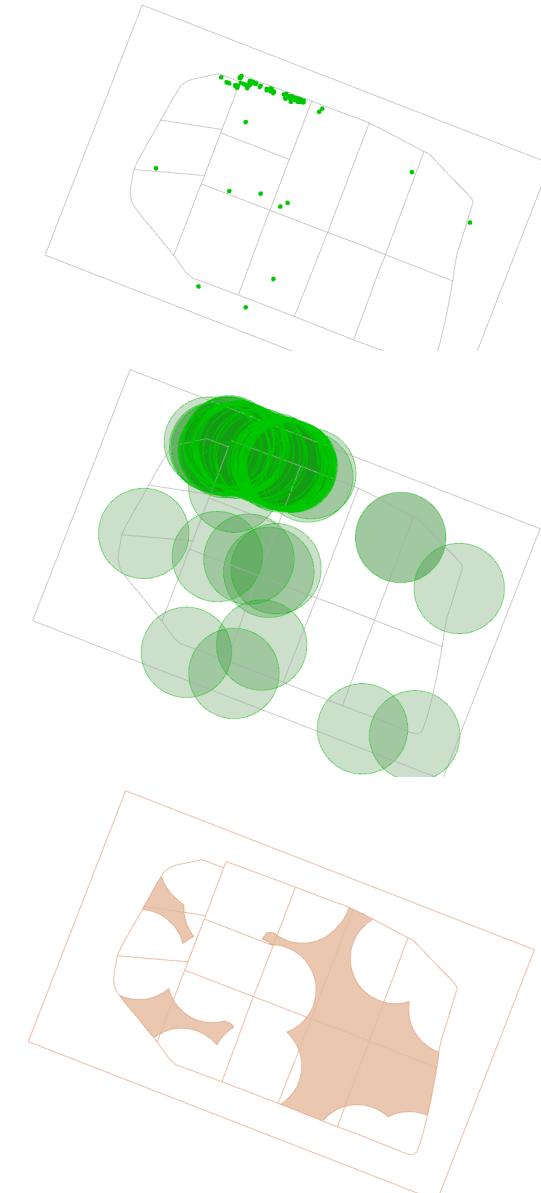
SPORTS



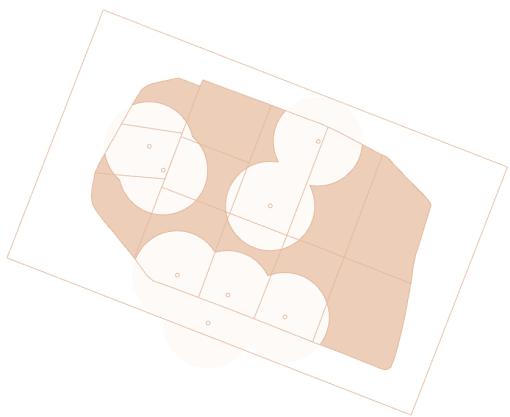
HEALTH



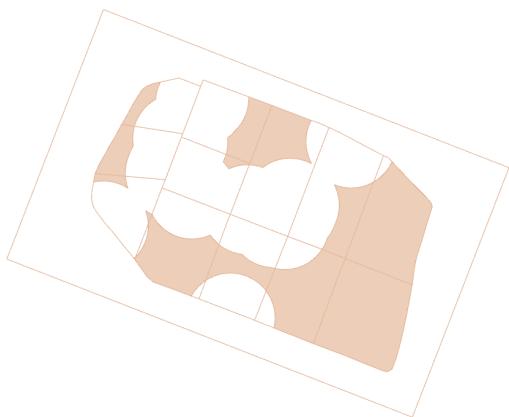
C. CENTERS



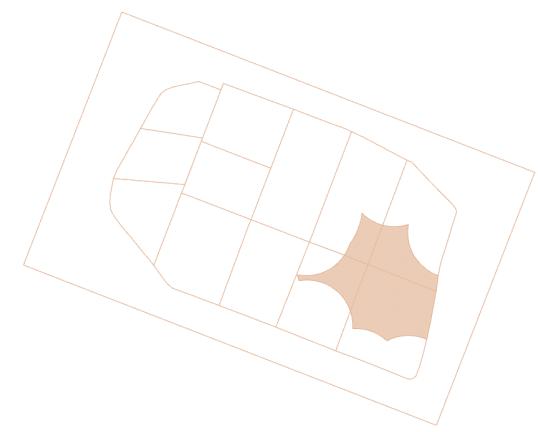
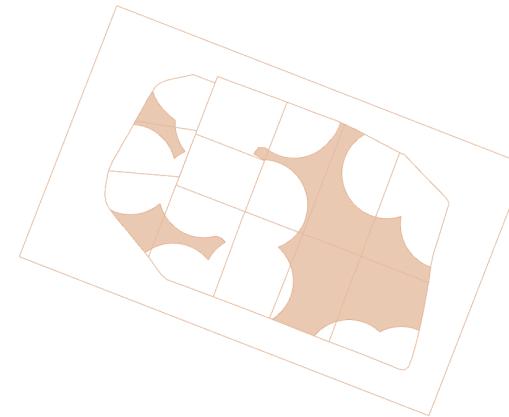
SPORTS



HEALTH

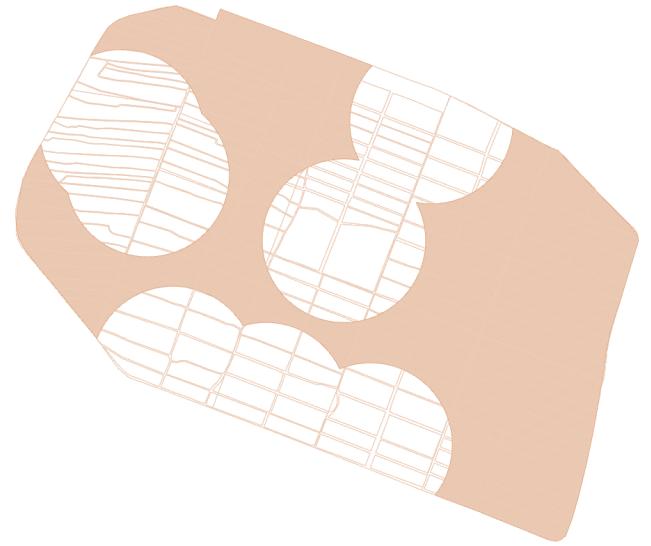


C. CENTERS

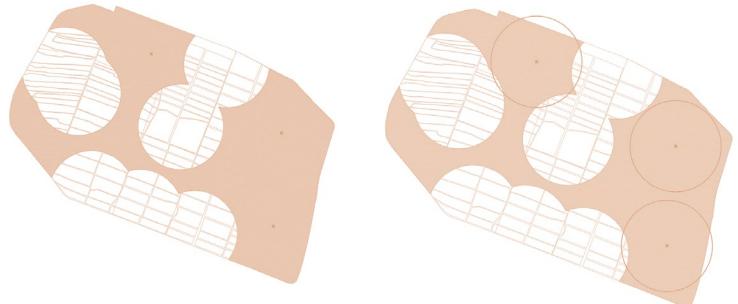


**LACK OF
ALL USES**

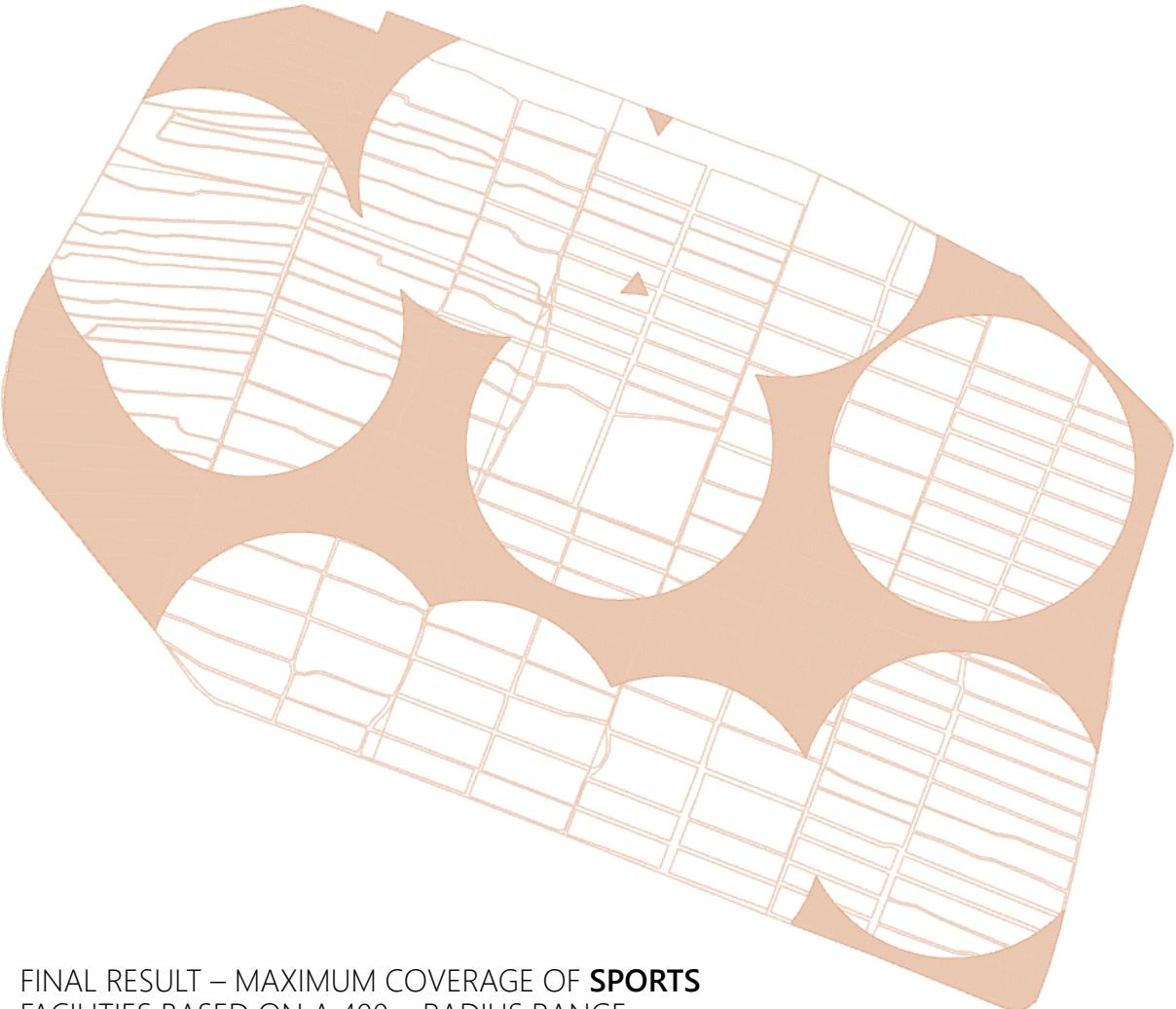
02_Configuring | Improvements



COVERAGE OF EXISTING **SPORTS** FACILITIES
BASED ON A 400m RADIUS RANGE

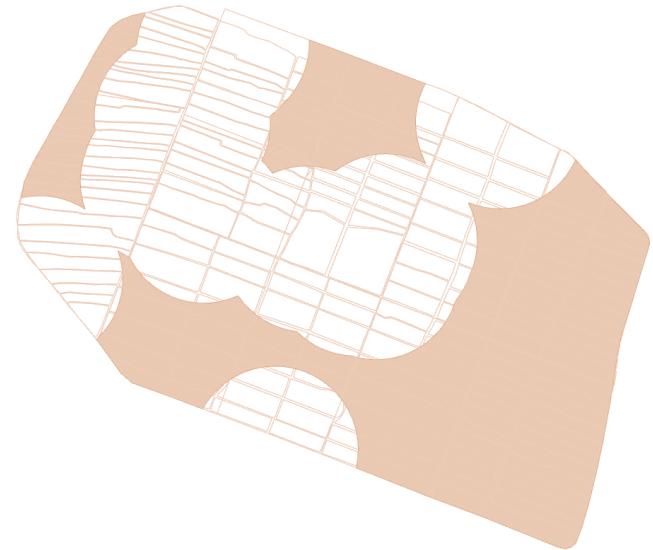


POTENTIAL LOCATIONS FOR NEW SPORTS
FACILITIES BASED ON A 400m RADIUS RANGE

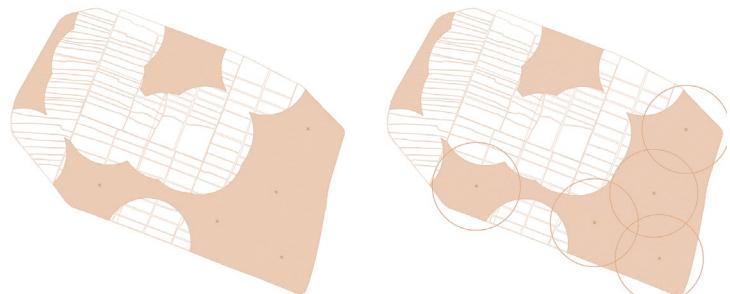


FINAL RESULT – MAXIMUM COVERAGE OF **SPORTS**
FACILITIES BASED ON A 400m RADIUS RANGE

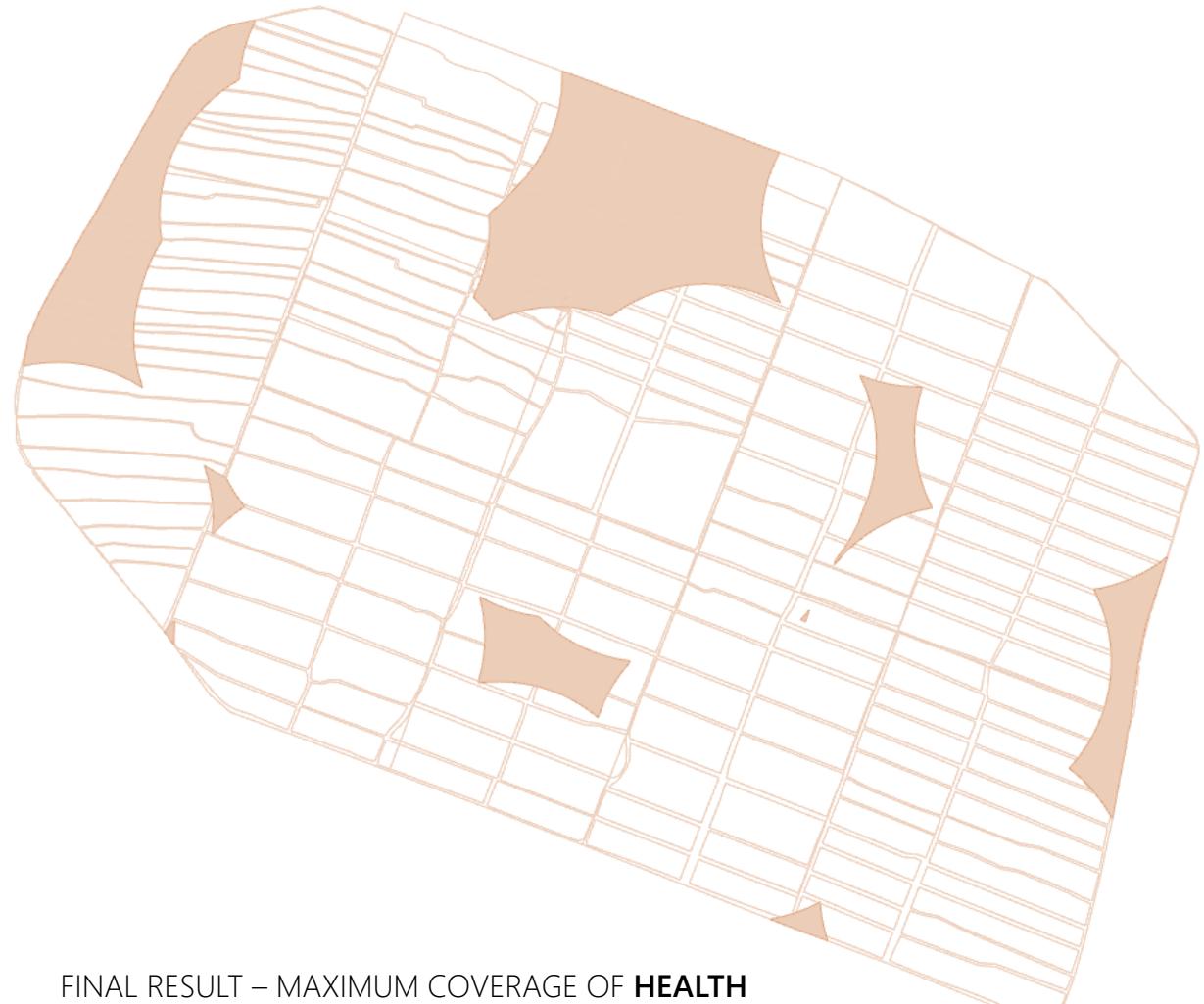
02_Configuring | Improvements



COVERAGE OF EXISTING **HEALTH** FACILITIES
BASED ON A 400m RADIUS RANGE

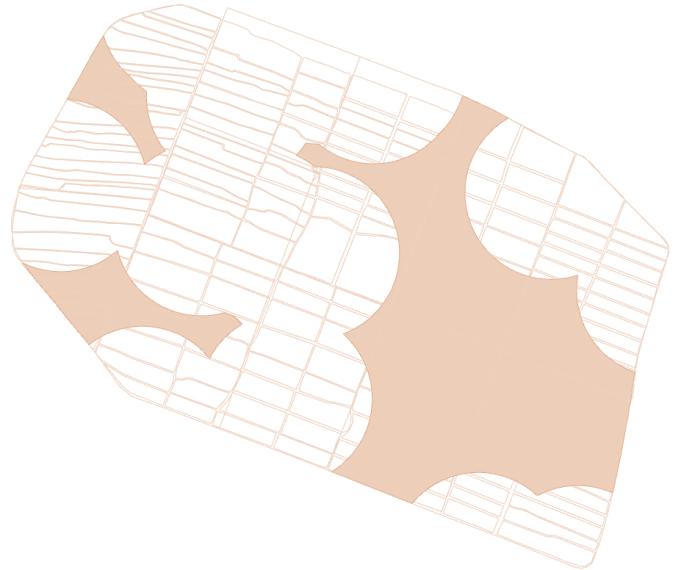


POTENTIAL LOCATIONS FOR NEW HEALTH
FACILITIES BASED ON A 400m RADIUS RANGE

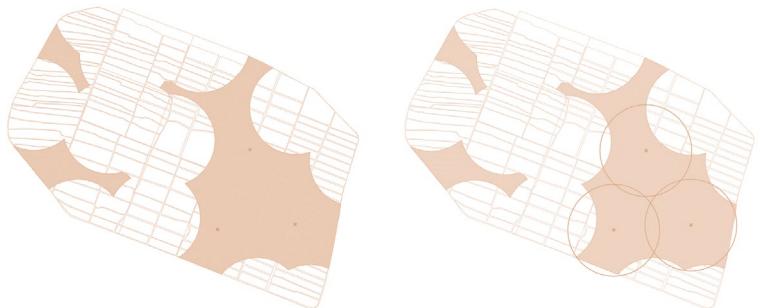


FINAL RESULT – MAXIMUM COVERAGE OF **HEALTH**
FACILITIES BASED ON A 400m RADIUS RANGE

02_Configuring | Improvements



COVERAGE OF EXISTING **COMMUNITY**
FACILITIES BASED ON A 400m RADIUS RANGE

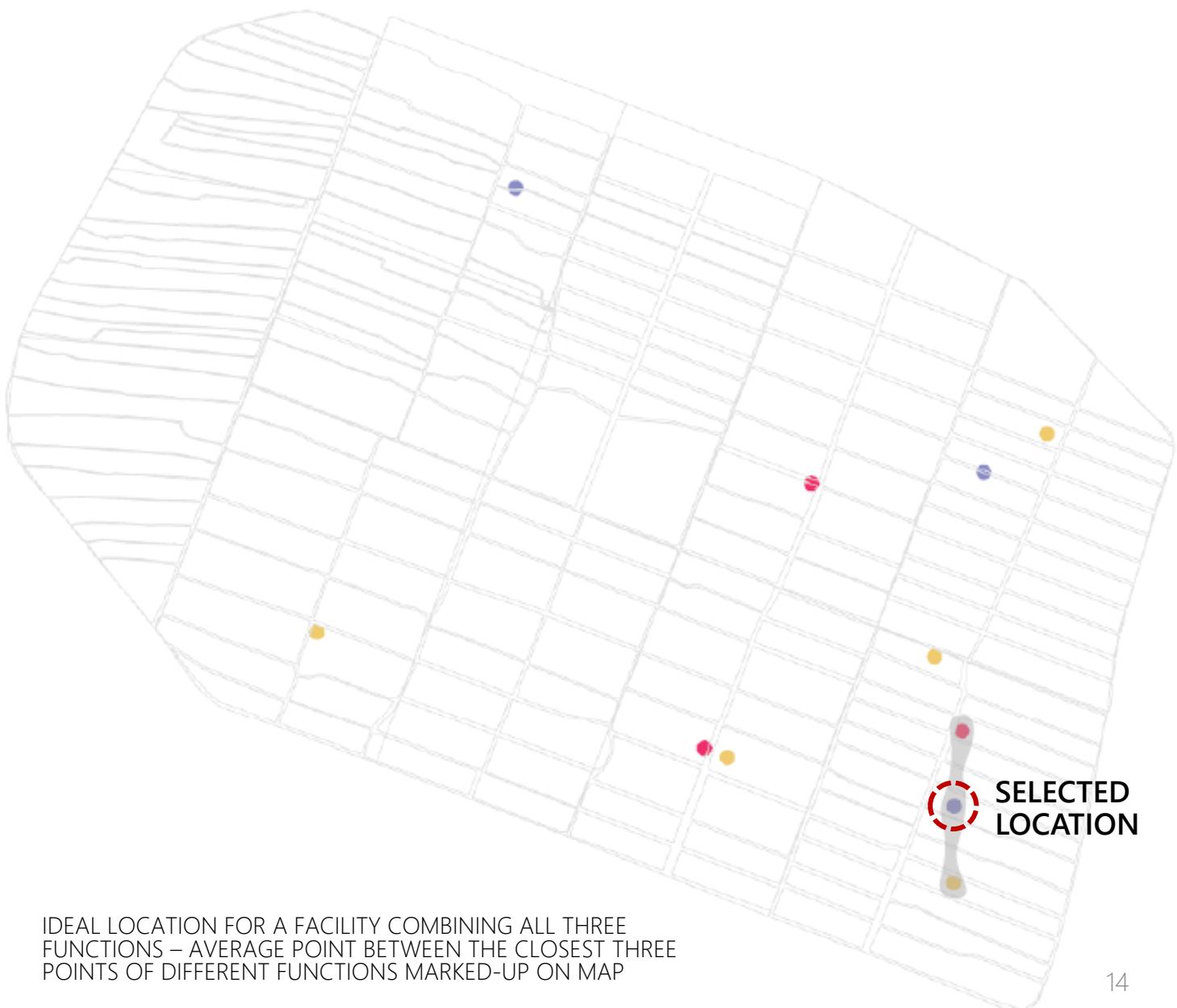
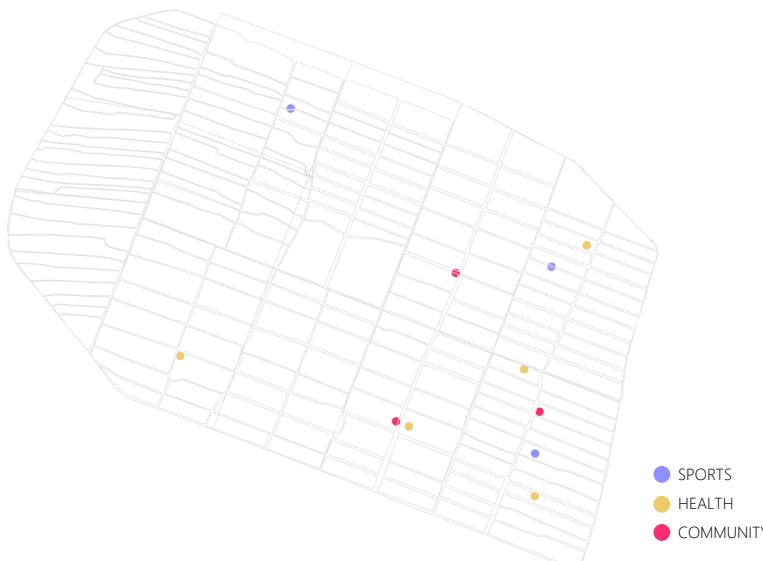
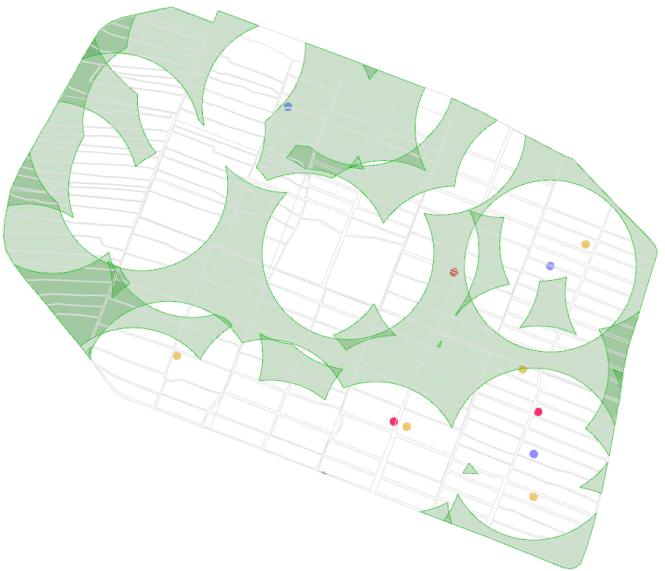


POTENTIAL LOCATIONS FOR NEW COMMUNITY
FACILITIES BASED ON A 400m RADIUS RANGE

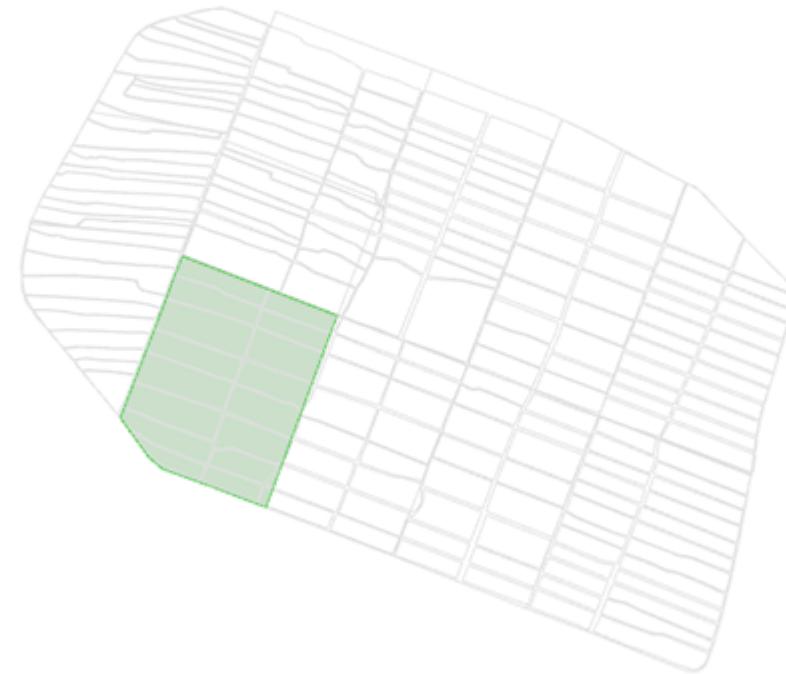
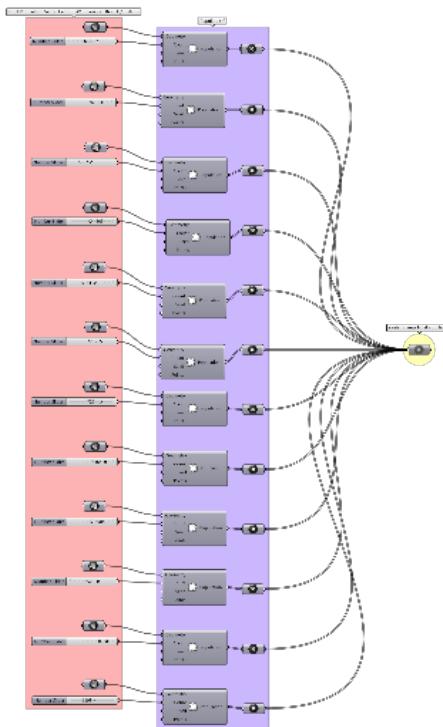


FINAL RESULT – MAXIMUM COVERAGE OF **COMMUNITY**
FACILITIES BASED ON A 400m RADIUS RANGE

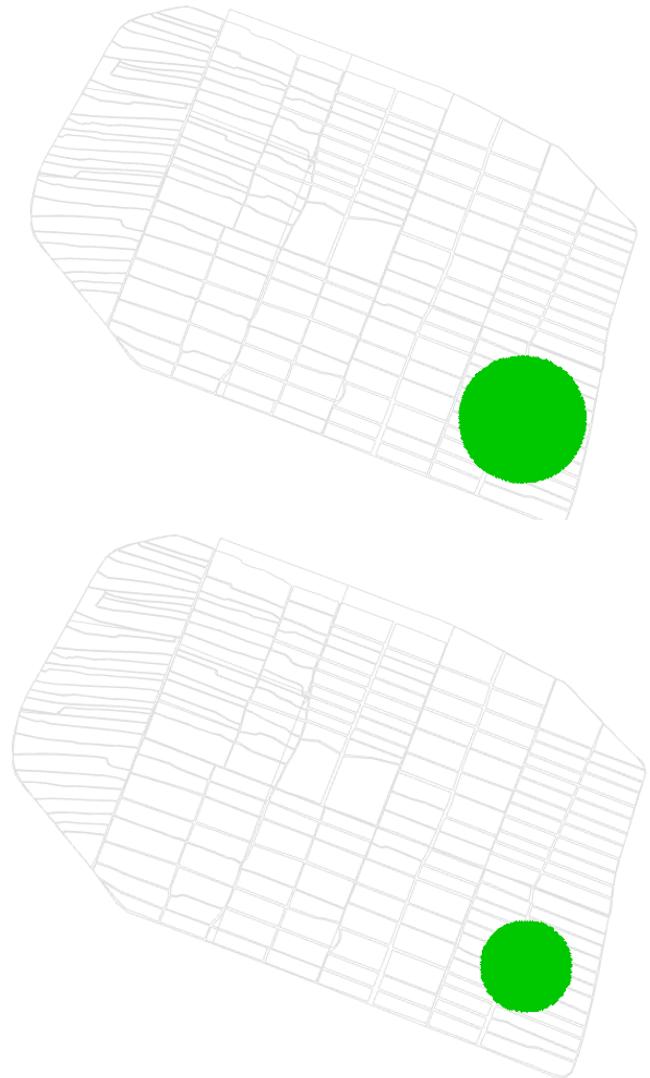
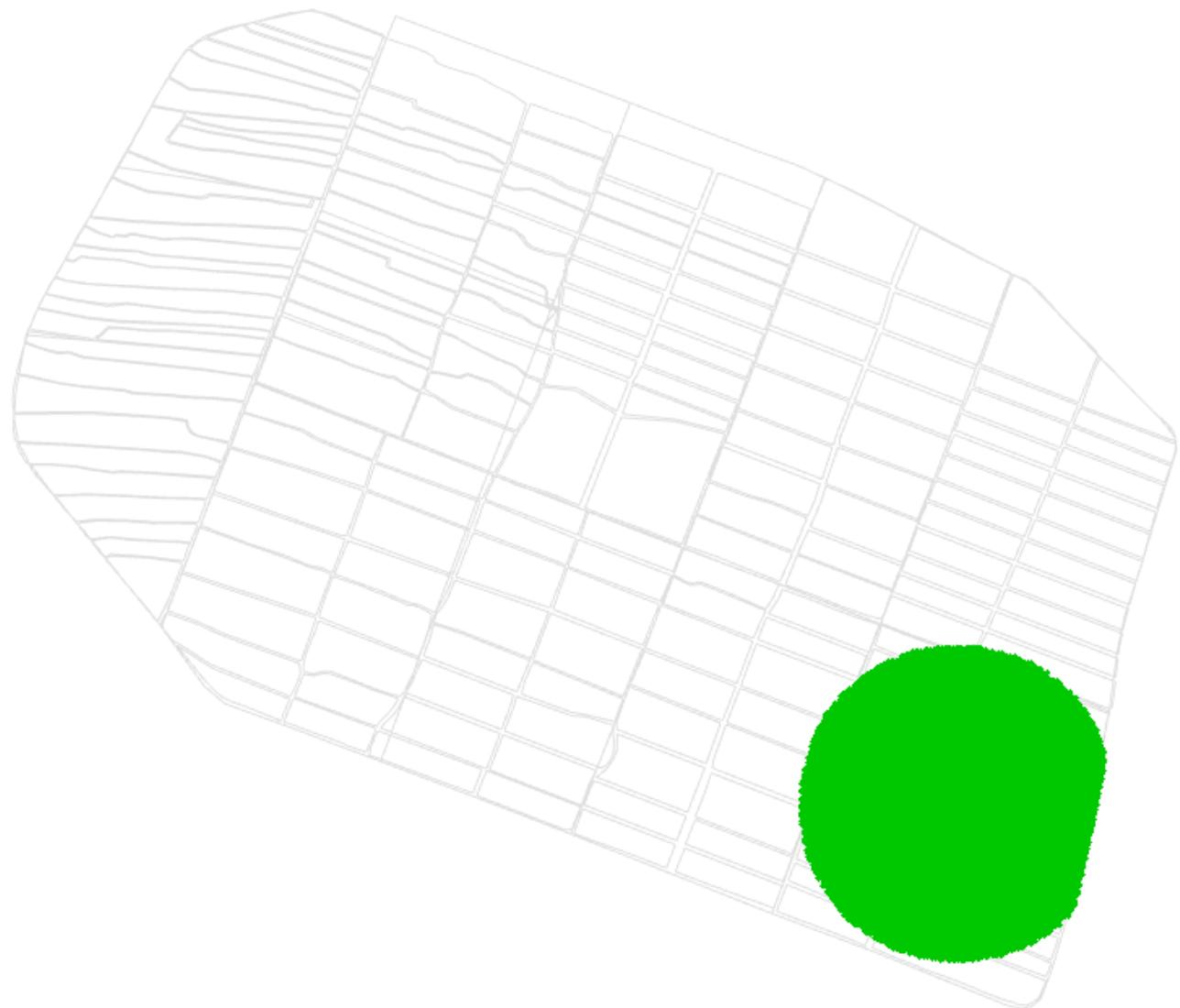
02_Configuring | Location Selection



- +Measuring individual district population density
- +Determine scale of Project base on user quantity.



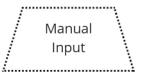
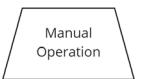
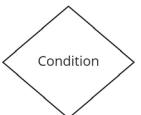
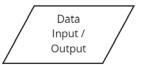
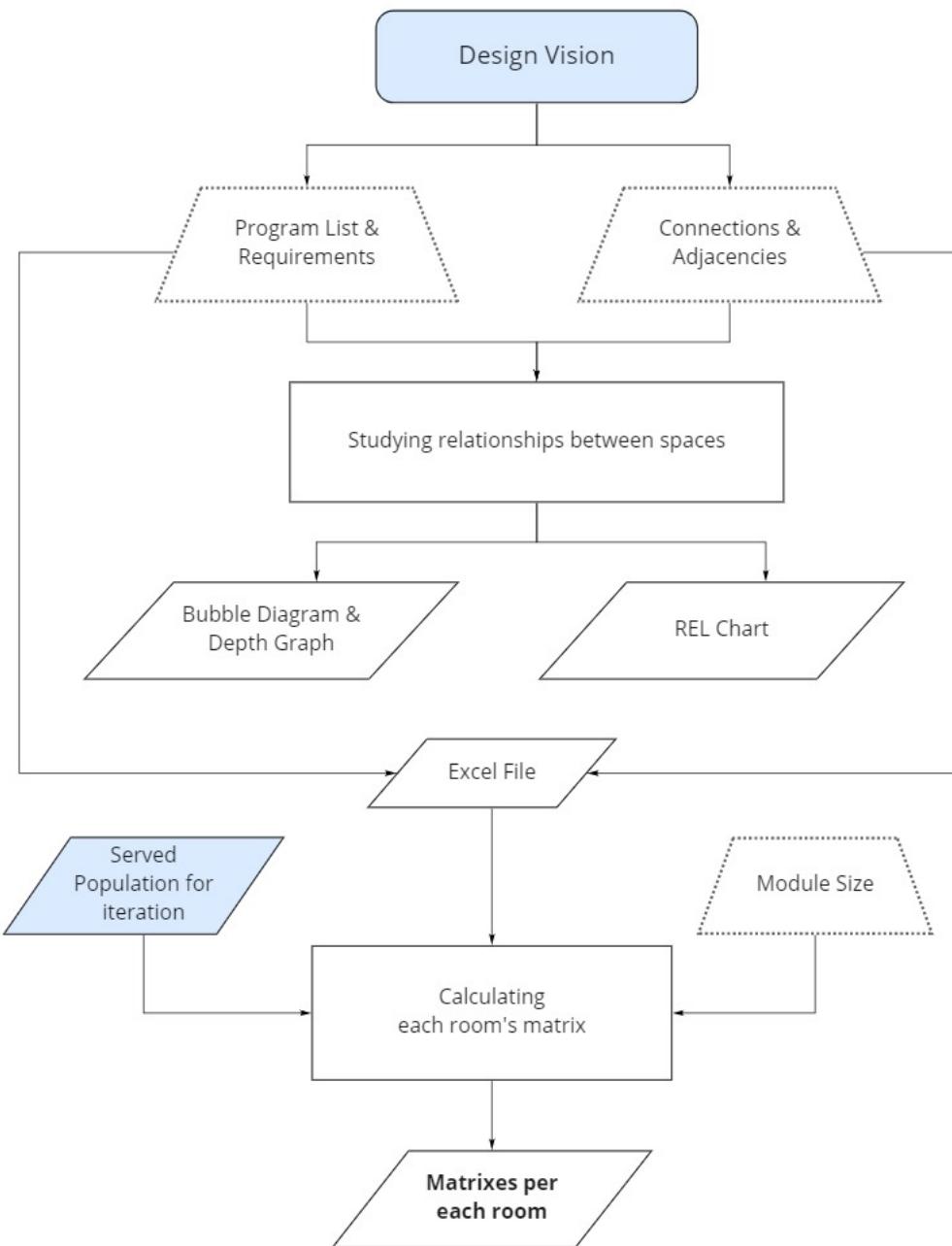
02_Configuring | Project Scale



IDENTIFICATION OF **TARGET POPULATION** PER FUNCTION ACCORDING TO EACH FUNCTION'S RADIUS RANGE –
OUTPUT NUMBERS WILL FEED THE BUILDING CAPACITY TABLES TO DEFINE THE BUILDING TOTAL AREA PER FUNCTION

	SPORTS	HEALTH	COMMUNITY
Total People using Culture			
4900	5600	3900	Average People
Required maximum capacity (at the same time)	328	375	261

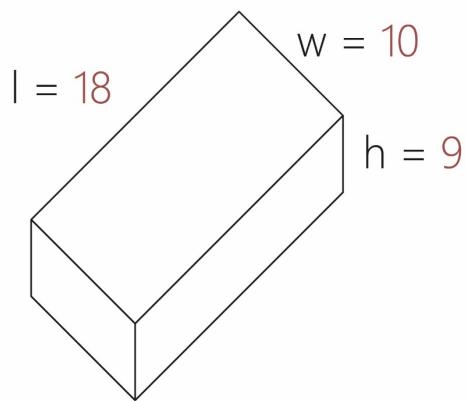
02_Configuring | Flowchart



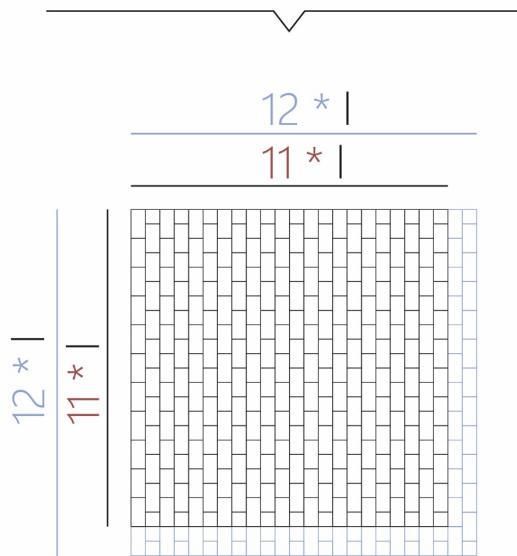
02_Configuring | Program Requirements

Class	Name	Index	Type_of_Space	Standart Matr.	Area_Person	Min_Space	Max_Space	Necessity	Connected_Rooms
General	Entrance	U_01	in		0.12	15	50	1	U_02, C_01 U_01, U_03, U_04, C_01, C_03, C_04,
	Main Circulation	U_02	in		0.3	10	9999	1	H_01, S_01, G_01, G_02
	Office	U_03	in		0.2	10	30	1	U_02
	Utilities Room	U_04	in	1, 3	0.005		15	1	U_02
Community Center	Open Space	C_01	out		0.8	30	9999	0	U_01, U_02, C_02, C_03, C_04, S_02
	DayCare	C_02	in		0.2	10	70	1	U_02, C_01
	Multi-functional space	C_03	in		0.50	20	150	0	U_02, C_01, C_05, C_06
	Café	C_04	in		0.7	50	250	1	U_02, C_01, C_05
	Game room	C_05	in		0.2	10	70	0	C_03, C_04
	Storage room	C_06	in		0.2	2	50	0	C_03
Health Clinic	Reception Health Clinic	H_01	in		0.1	10	40	0	U_02, H_02, H_03, H_04, H_05
	Classroom	H_02	in		0.3	40	70	1	C_03, H_01
	Massage / care room	H_03	in	2, 4	0.09			0	H_01
	Therapy room	H_04	in	2, 4	0.09			0	H_01
	Procedure room	H_05	in	2, 4	0.09			0	H_01
Sport Center	Reception Sports & ThermalBath	S_01	in		0.15	15	70	1	U_02, S_02, S_03, S_04, S_05, T_06
	Yoga class	S_02	in		0.25	20	70	0	C_01, S_01
	Multisport room	S_03	in		0.45	50	150	1	C_01, S_01, S_05, T_06
	Sport hall (court)	S_04	in	15, 28	1.05			0	S_01, T_06
	Sport storage room	S_05	in		0.2	2	50	0	S_01, S_03
Spa	Sauna	T_01	in	2, 2	0.06			1	T_03, T_07
	Hamam	T_02	in	2, 2	0.06			1	T_03, T_07
	Hot pool	T_03	in		0.15	30	9999	0	T_01, T_02, T_04
	Tepid bath	T_04	in		0.10	20	9999	0	T_03, T_05, G_04
	Cold pool	T_05	in		0.4	70	9999	1	T_04, T_07, T_08
	Dressing room	T_06	in		0.2	20	30	1	S_01, S_03, S_04, G_03, G_04
	Temp Transition	T_07	in		0.2	20	30	0	T_01, T_02, T_05
	Equipment	T_08	in		0.12	20	60	0	T_05, W_03
Hygiene	General Toilets	G_01	in	1, 2	0.18			1	U_02
	Water Access Points	G_02	in	1, 1	0.03			1	U_02
	S & ThB Toilets	G_03	in	1, 2	0.03			0	T_06, G_04
	Showers	G_04	in	1, 1	0.03			1	T_06, G_03
Water services	Water Storage	W_01	in	3, 3	0.2		10	30	1 W_02
	Water Technics	W_02	in		0.15				1 W_01, W_03

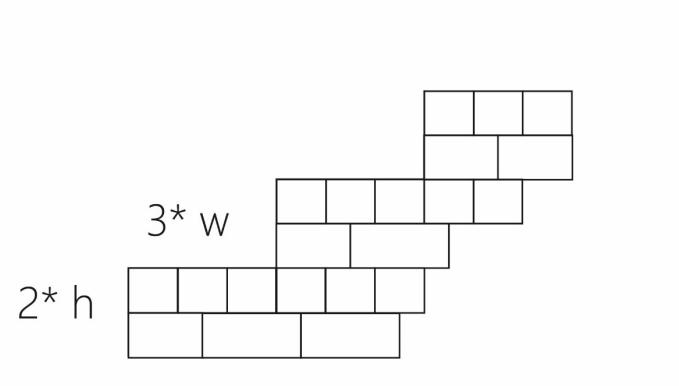
02_Configuring | Module Size Generation



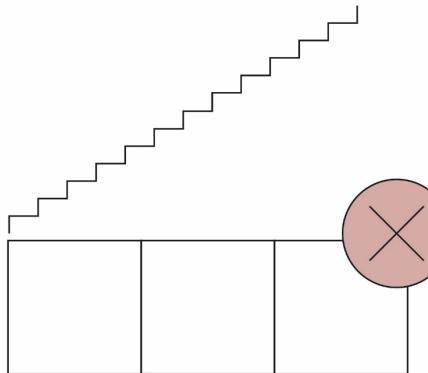
bricksize



potential grid sizes



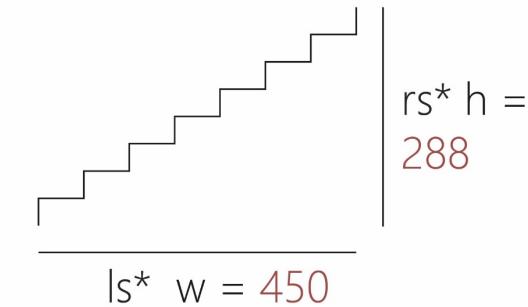
stair module



bricksize = $x * \text{gridsize} = y * \text{height} = z * \text{length}$

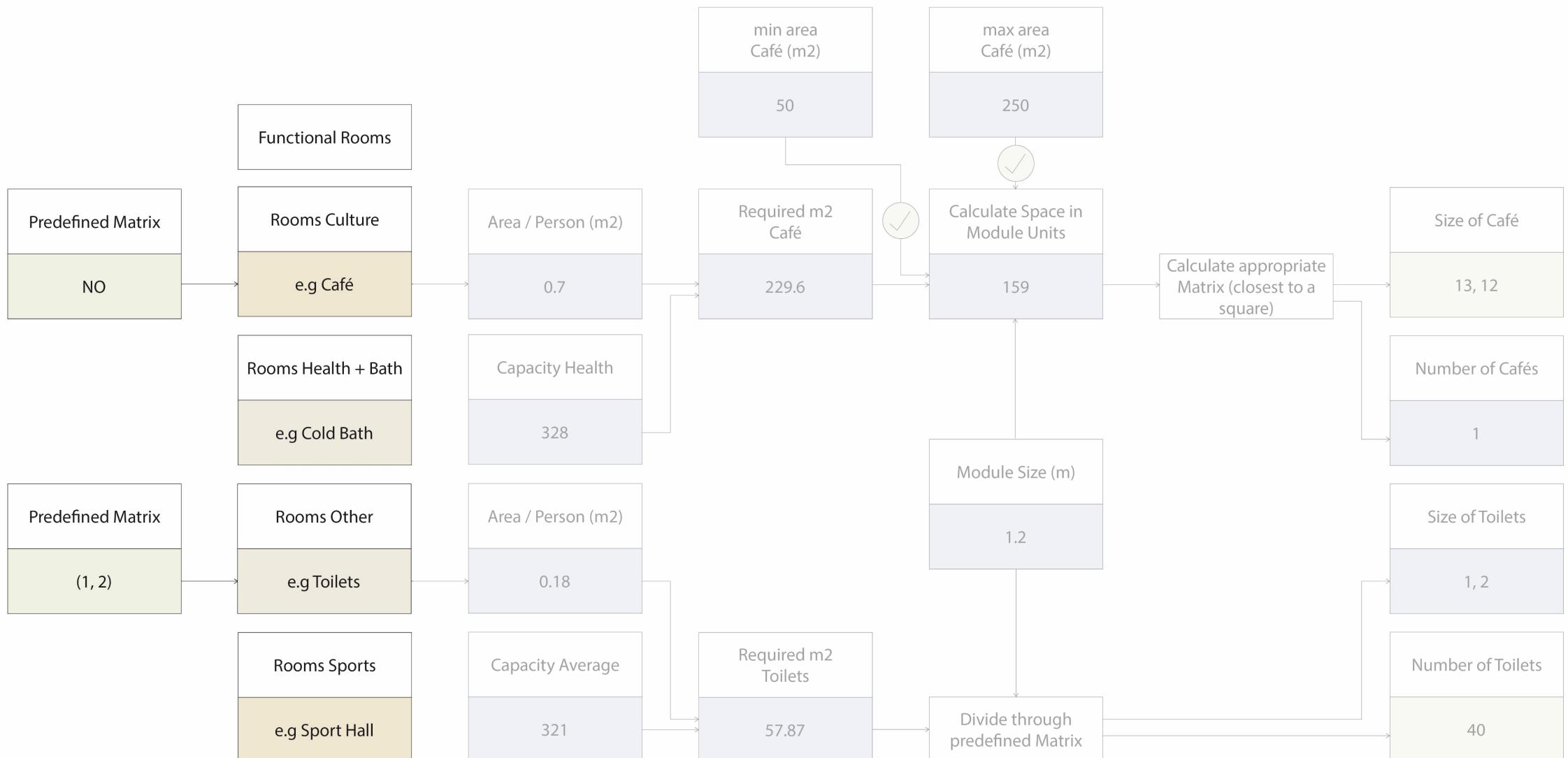
calculation potential grid sizes matching in 3D

landing steps (ls) = 45
rising steps (rs) = 32

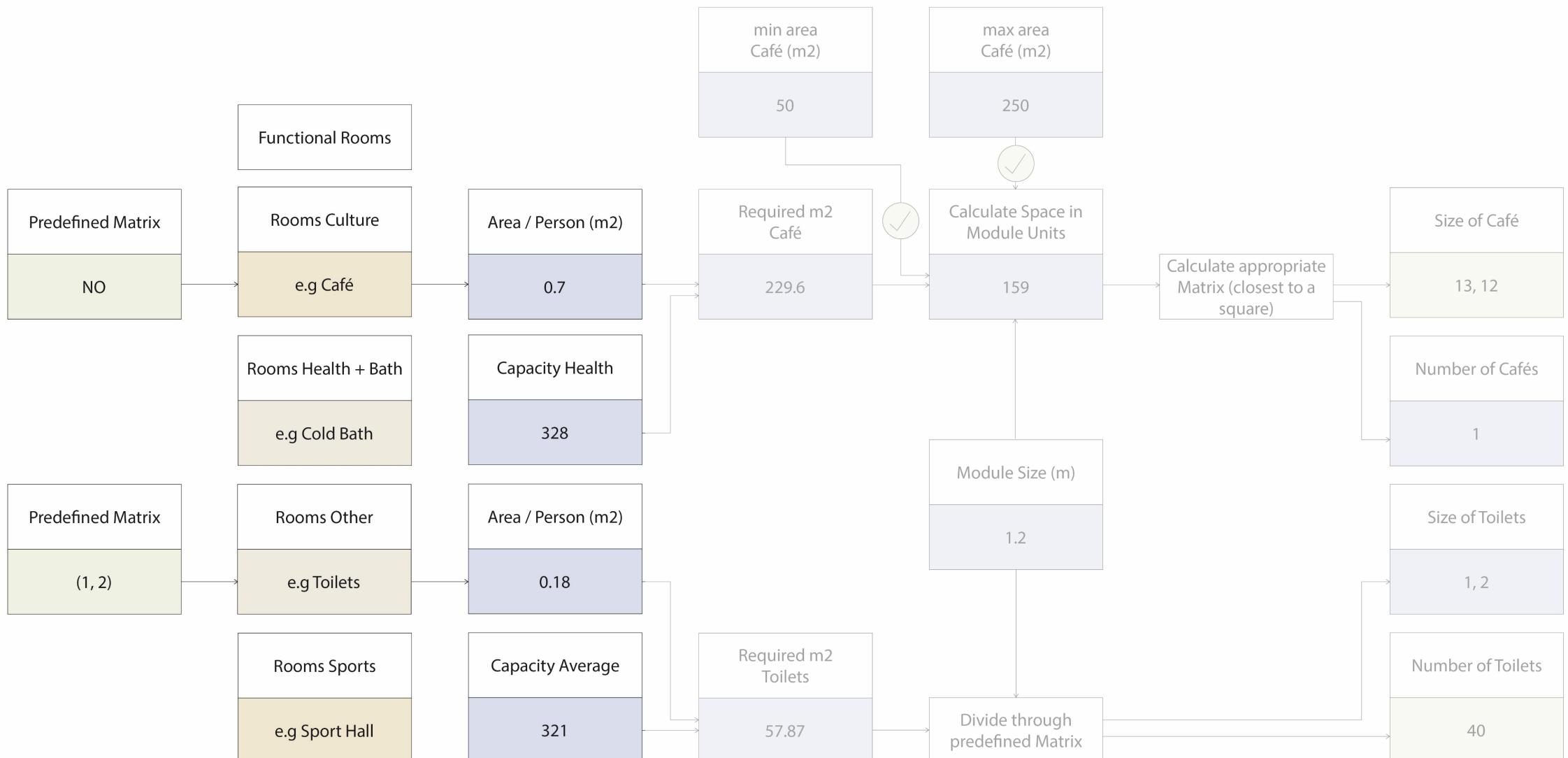


reaching the first floor

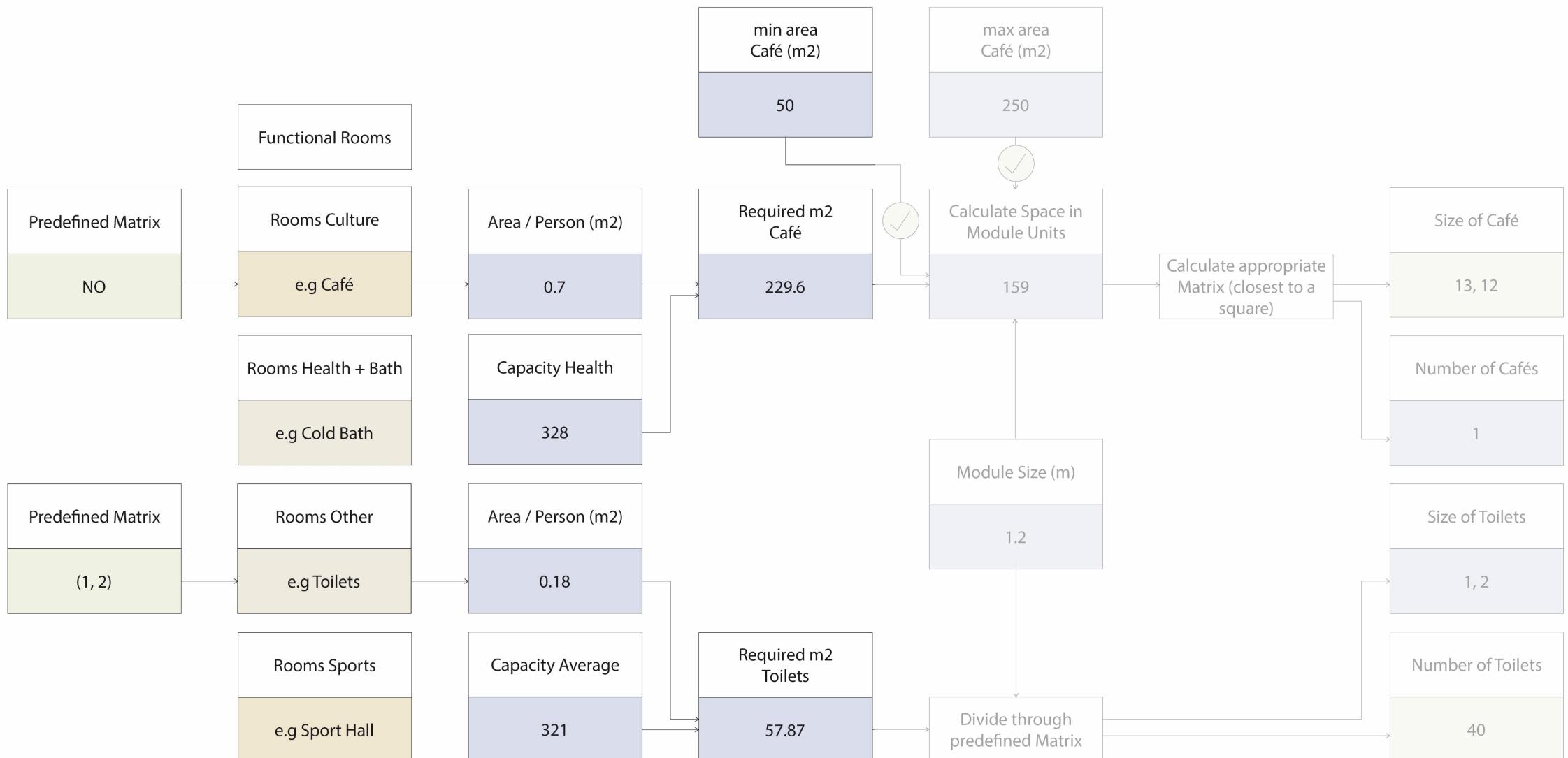
02_Configuring



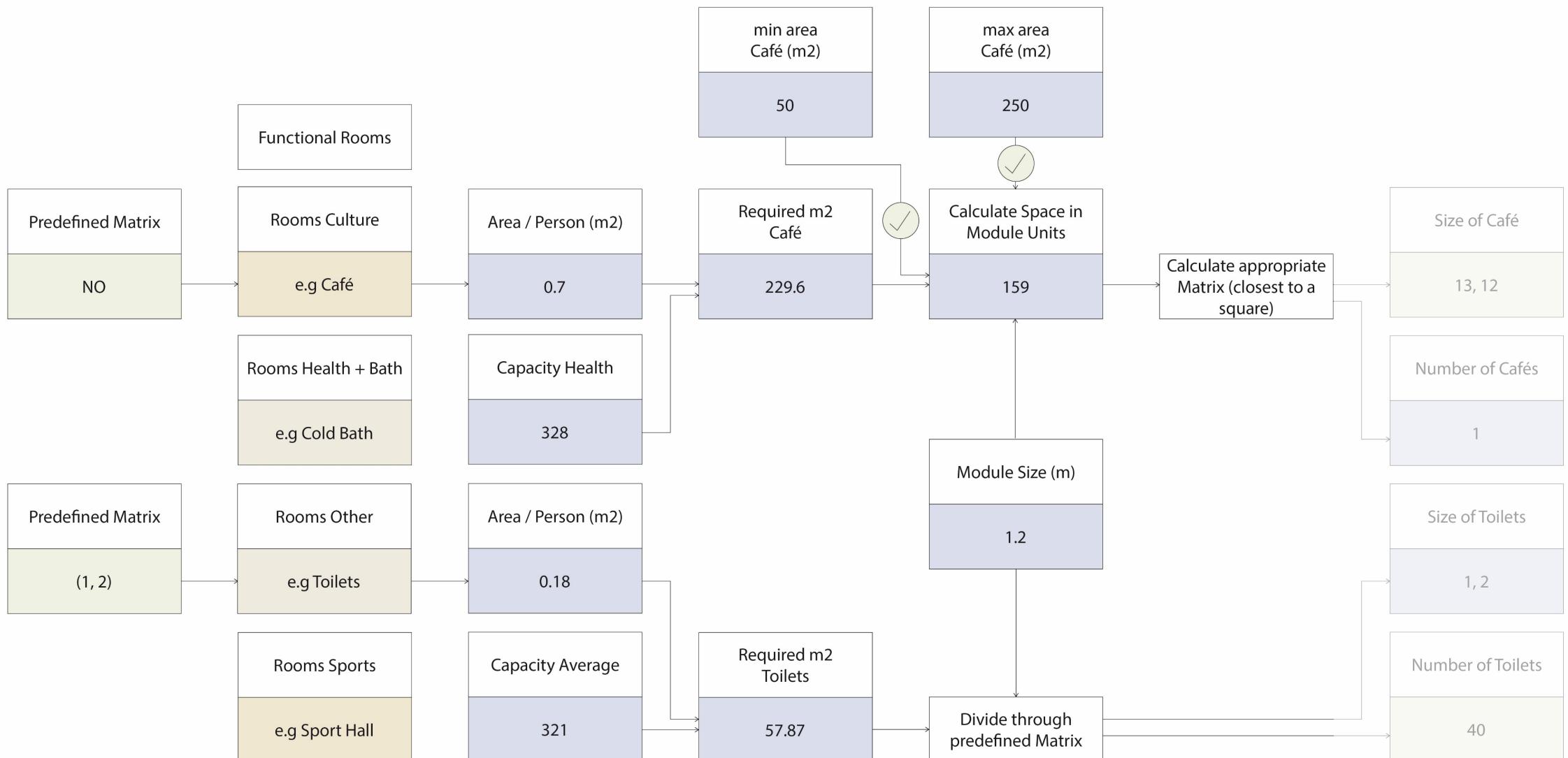
02_Configuring



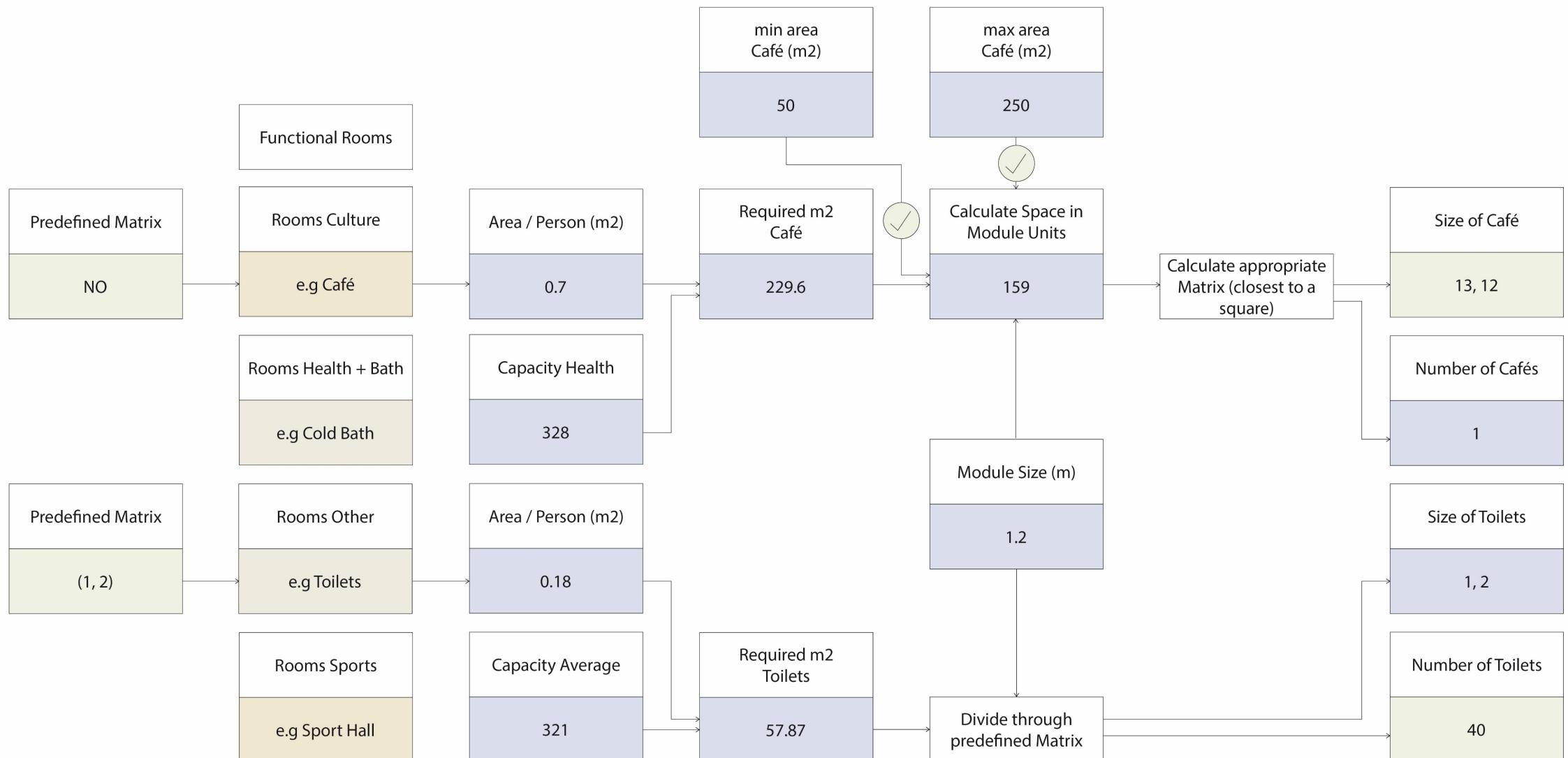
02_Configuring



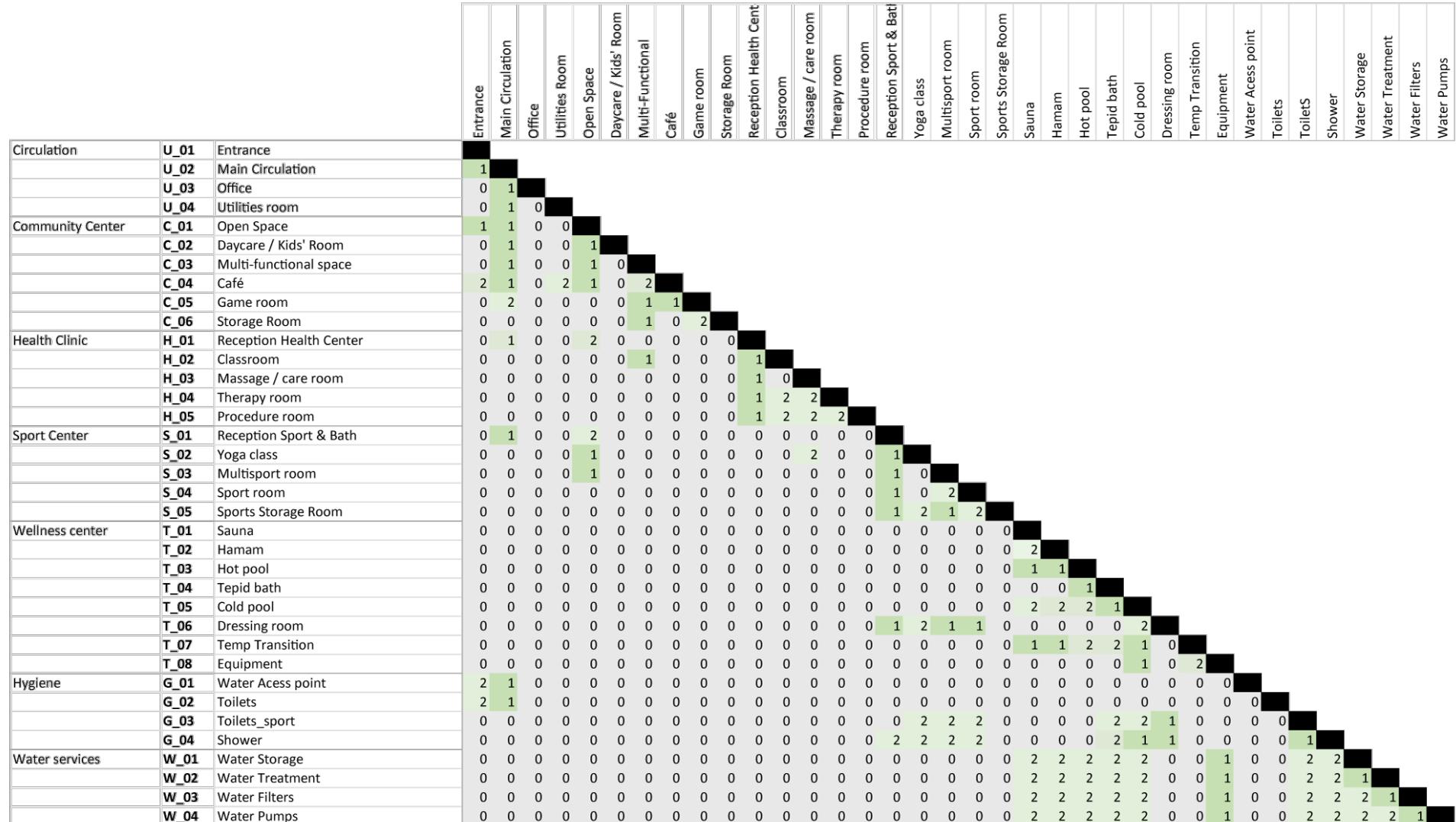
02_Configuring



02_Configuring



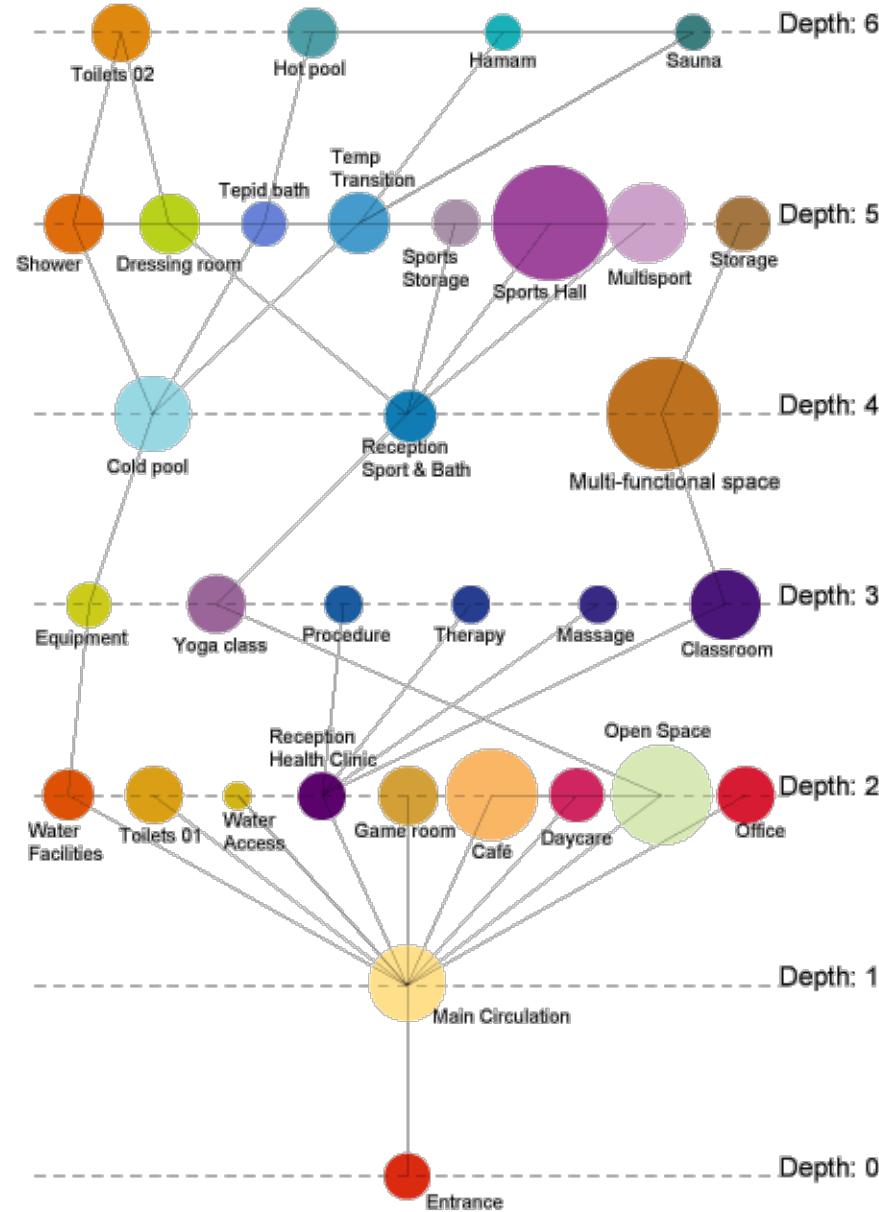
02_Configuring | REL Chart



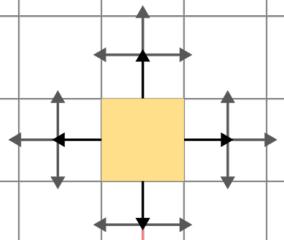
0 No connection
 1 Immediate Connection
 2 Indirect Connection / Closely Located

26

02_Configuring | Depth Diagram

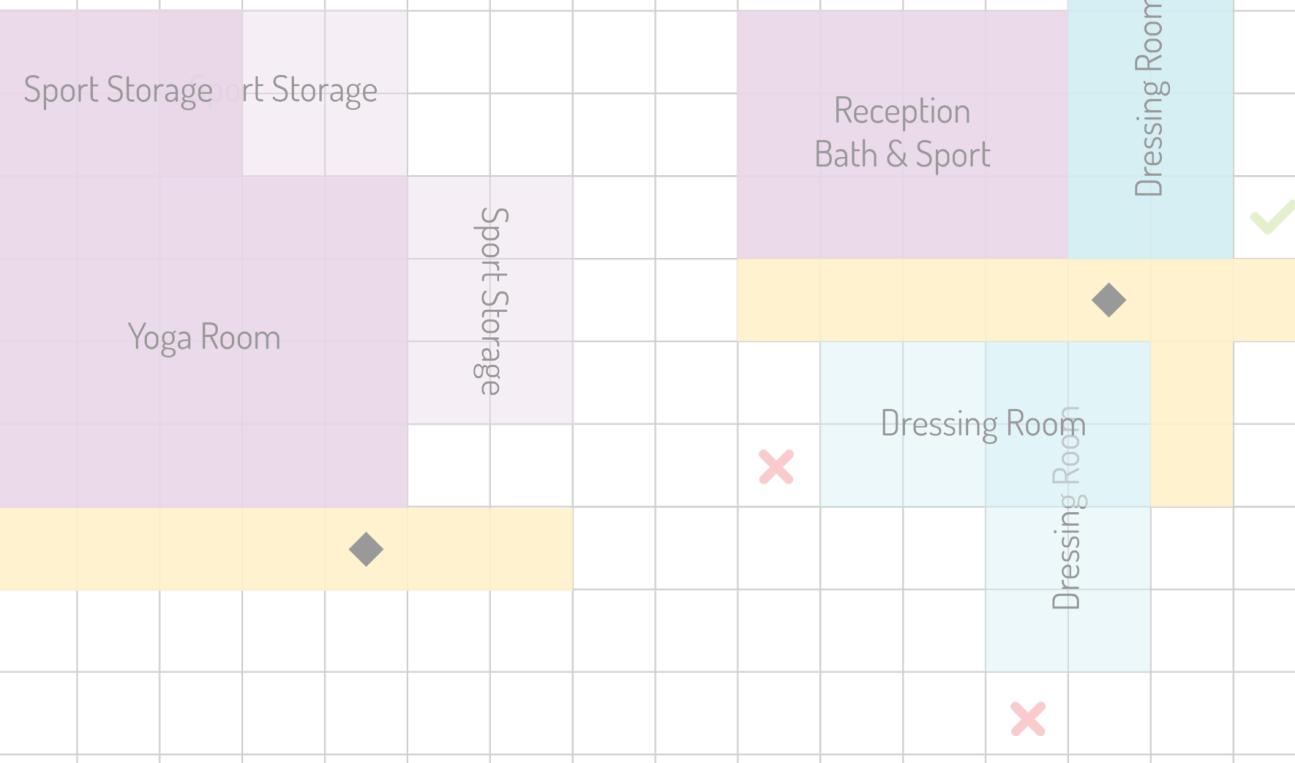


02_Configuring | Potential and Rules for spatial definition



SPOT NEIGHBORS AND
ALREADY USED SPACE

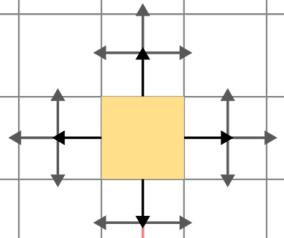
CAN ALLOCATE SPACE
IN EVERY DIRECTION
AND SIZE



PLACE SPATIAL CONNECTED
ROOMS ADJACENT TO EACH OTHER
(NO CORRIDORS NEEDED)

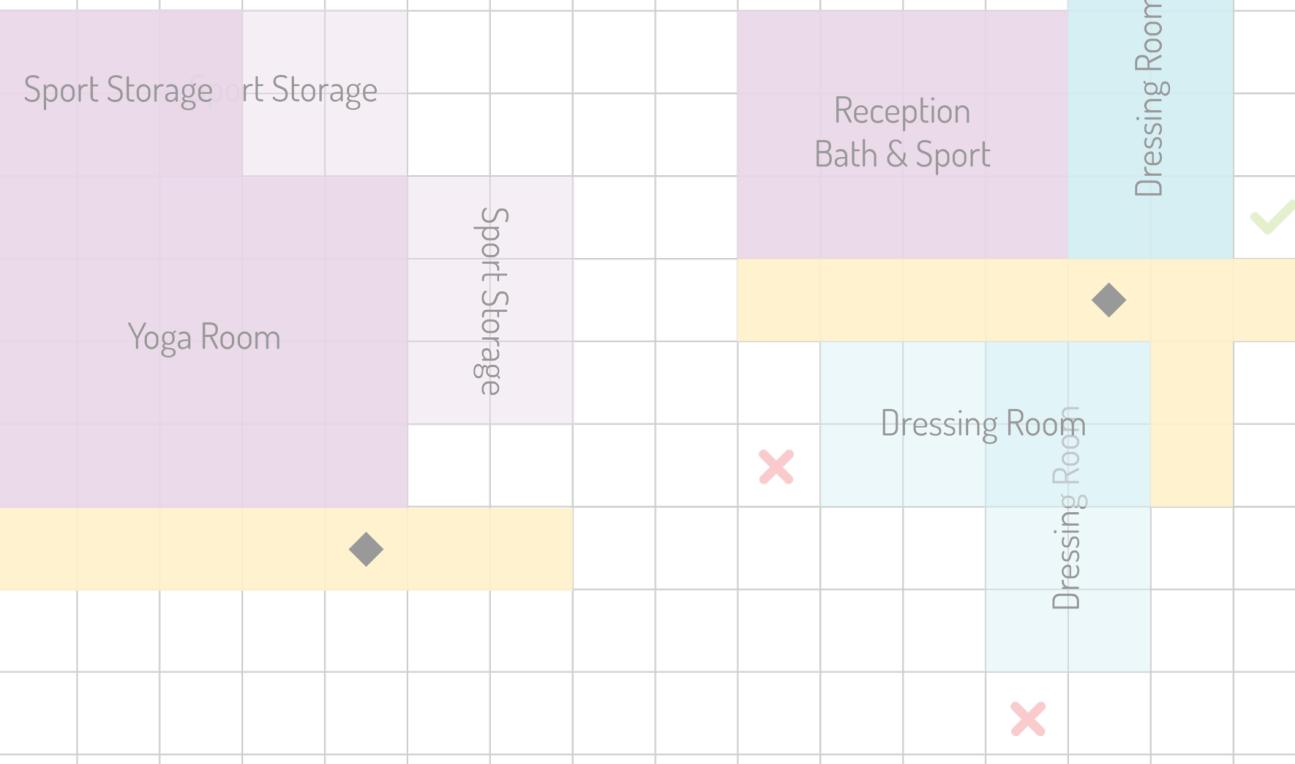
PALCE PROXIMITY CONNECTED
ROOMS THE CLOSEST AS POSSIBLE

02_Configuring | Potential and Rules for spatial definition



SPOT NEIGHBORS AND
ALREADY USED SPACE

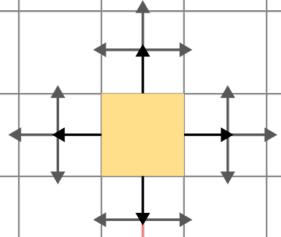
CAN ALLOCATE SPACE
IN EVERY DIRECTION
AND SIZE



PLACE SPATIAL CONNECTED
ROOMS ADJACENT TO EACH OTHER
(NO CORRIDORS NEEDED)

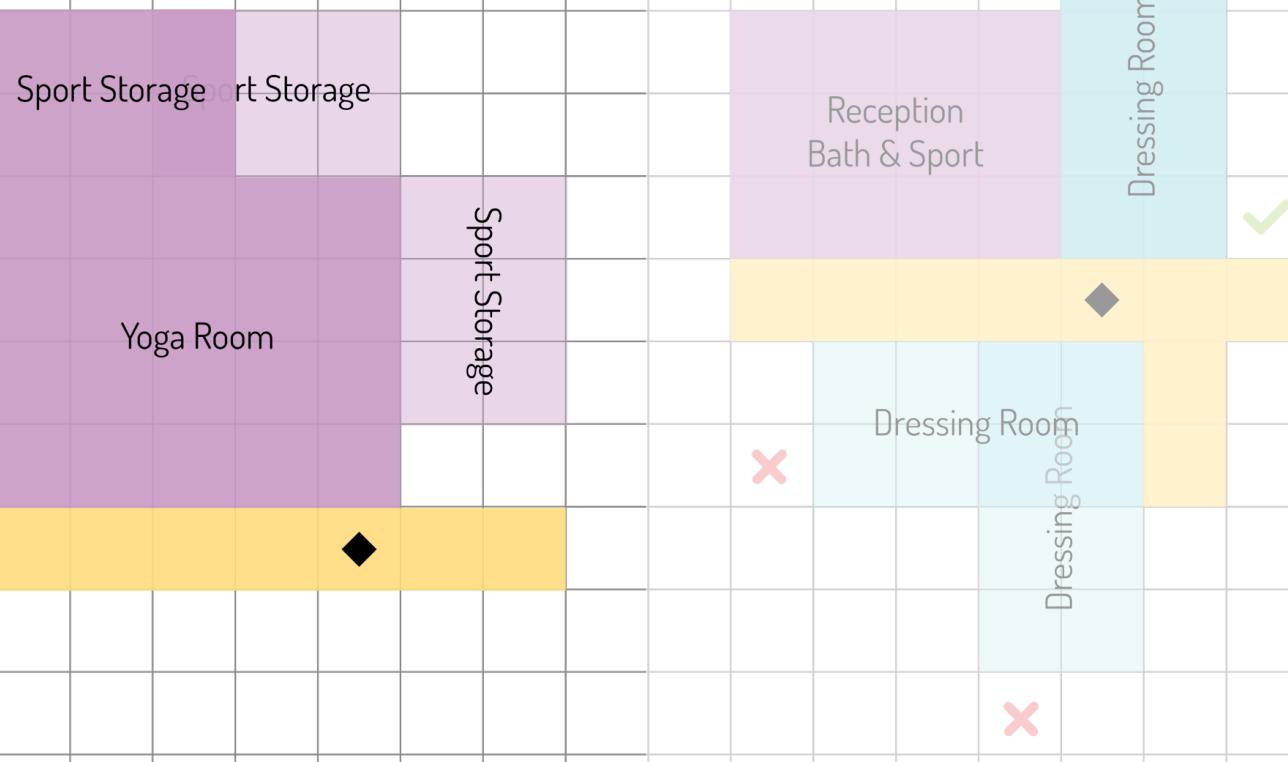
PALCE PROXIMITY CONNECTED
ROOMS THE CLOSEST AS POSSIBLE

02_Configuring | Potential and Rules for spatial definition



SPOT NEIGHBORS AND
ALREADY USED SPACE

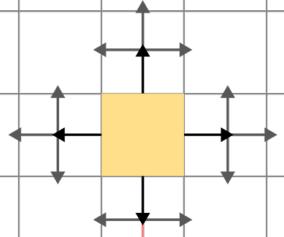
CAN ALLOCATE SPACE
IN EVERY DIRECTION
AND SIZE



PLACE SPATIAL CONNECTED
ROOMS **ADJACENT** TO EACH OTHER
(NO CORRIDORS NEEDED)

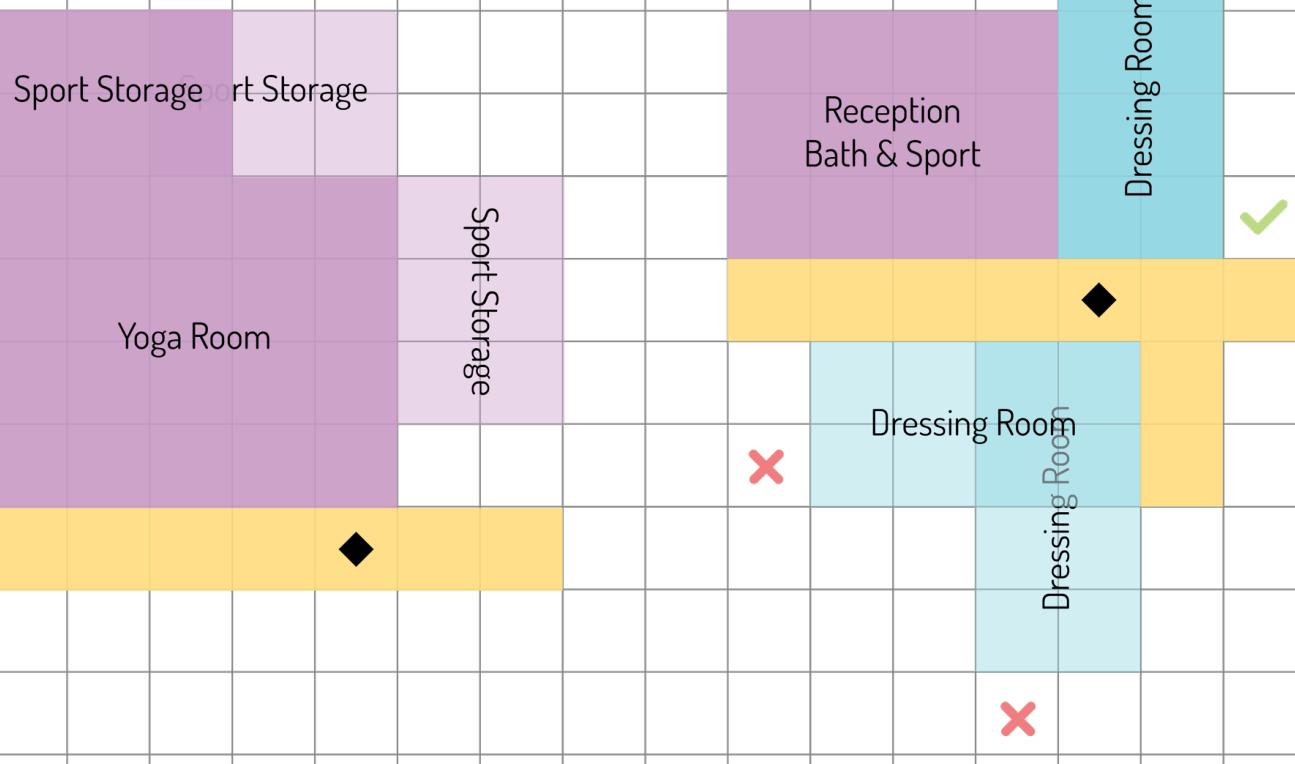
PALCE PROXIMITY CONNECTED
ROOMS THE CLOSEST AS POSSIBLE

02_Configuring | Potential and Rules for spatial definition



SPOT NEIGHBORS AND
ALREADY USED SPACE

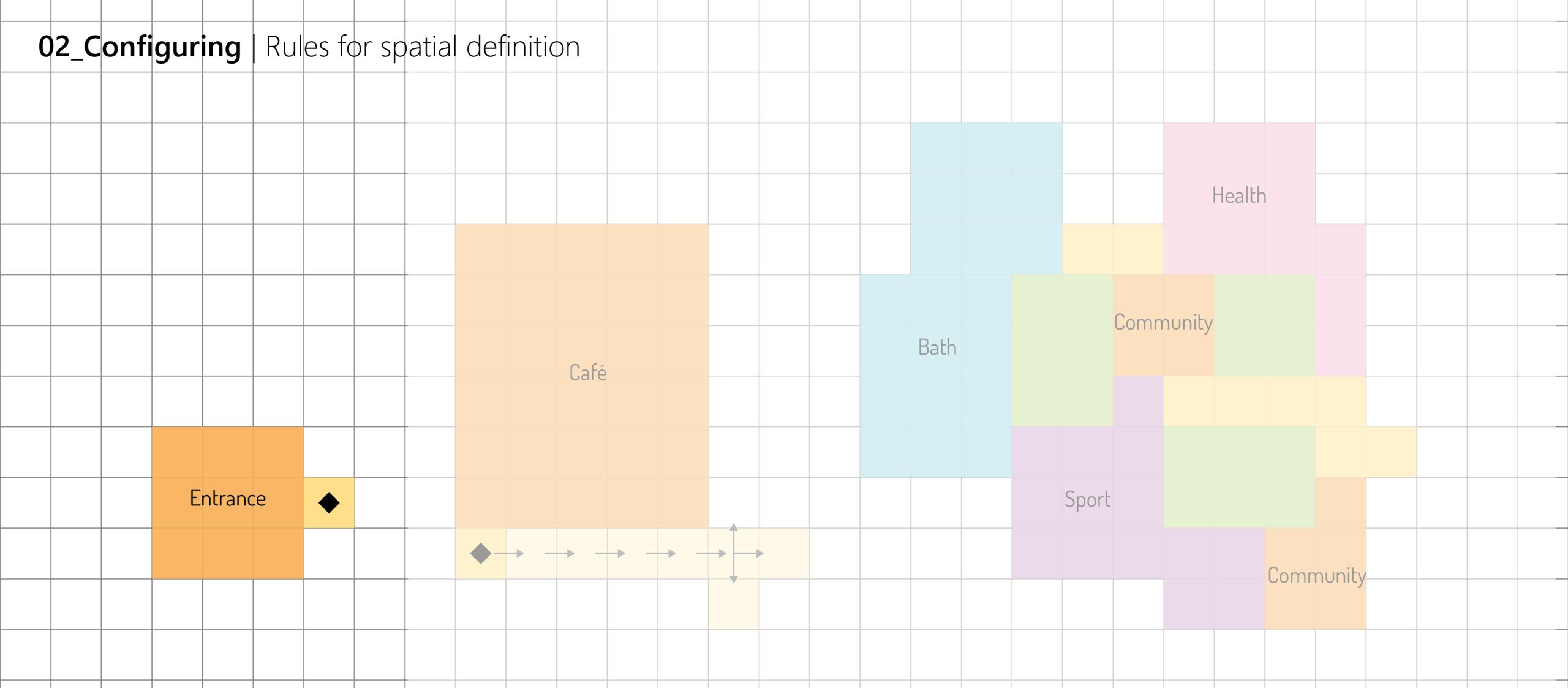
CAN ALLOCATE SPACE
IN EVERY DIRECTION
AND SIZE



PLACE SPATIAL CONNECTED
ROOMS ADJACENT TO EACH OTHER
(NO CORRIDORS NEEDED)

PALCE PROXIMITY CONNECTED
ROOMS THE CLOSEST AS POSSIBLE

02_Configuring | Rules for spatial definition

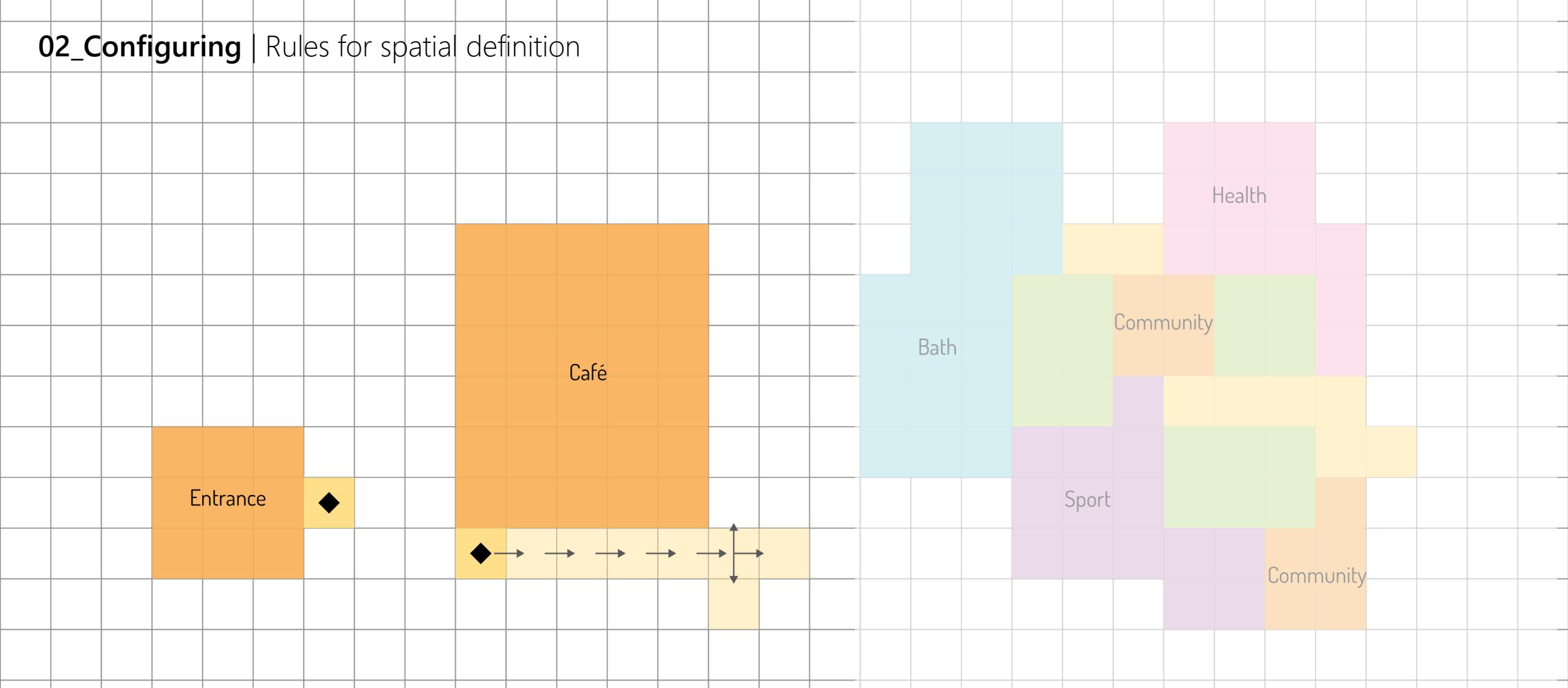


START FROM ENTRANCE
AND CORRIDOR

1. CORRIDORS TILES ARE ADDED UNTIL THE NEXT FUNCTION IN THE PLACING LIST FITS
2. EVERY x TILES, THE CORRIDOR DUPLICATE

CLUSTER OF FUNCTIONS WILL BE ORGANIZED AROUND DIFFERENT COURTYARDS

02_Configuring | Rules for spatial definition

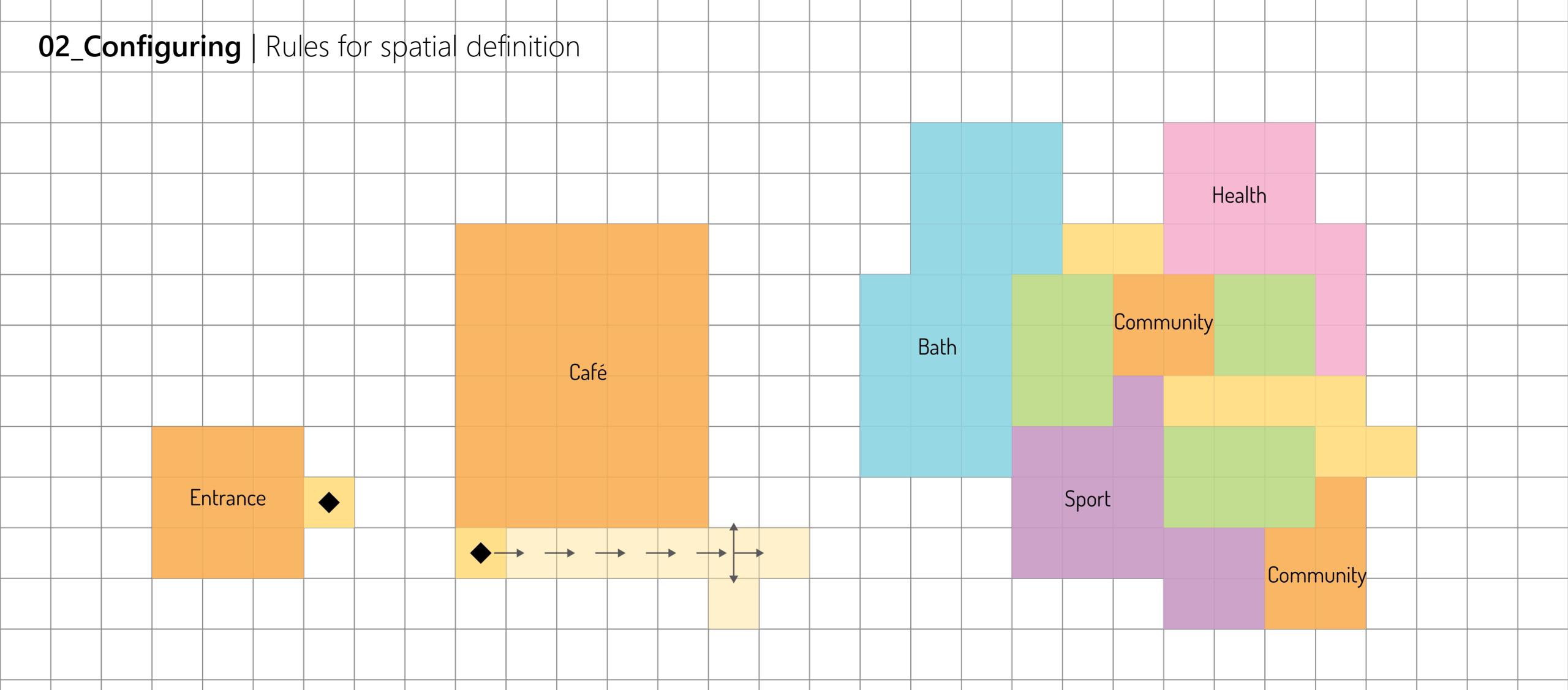


START FROM ENTRANCE
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CLUSTER OF FUNCTIONS WILL BE ORGANIZED AROUND DIFFERENT COURTYARDS

02_Configuring | Rules for spatial definition

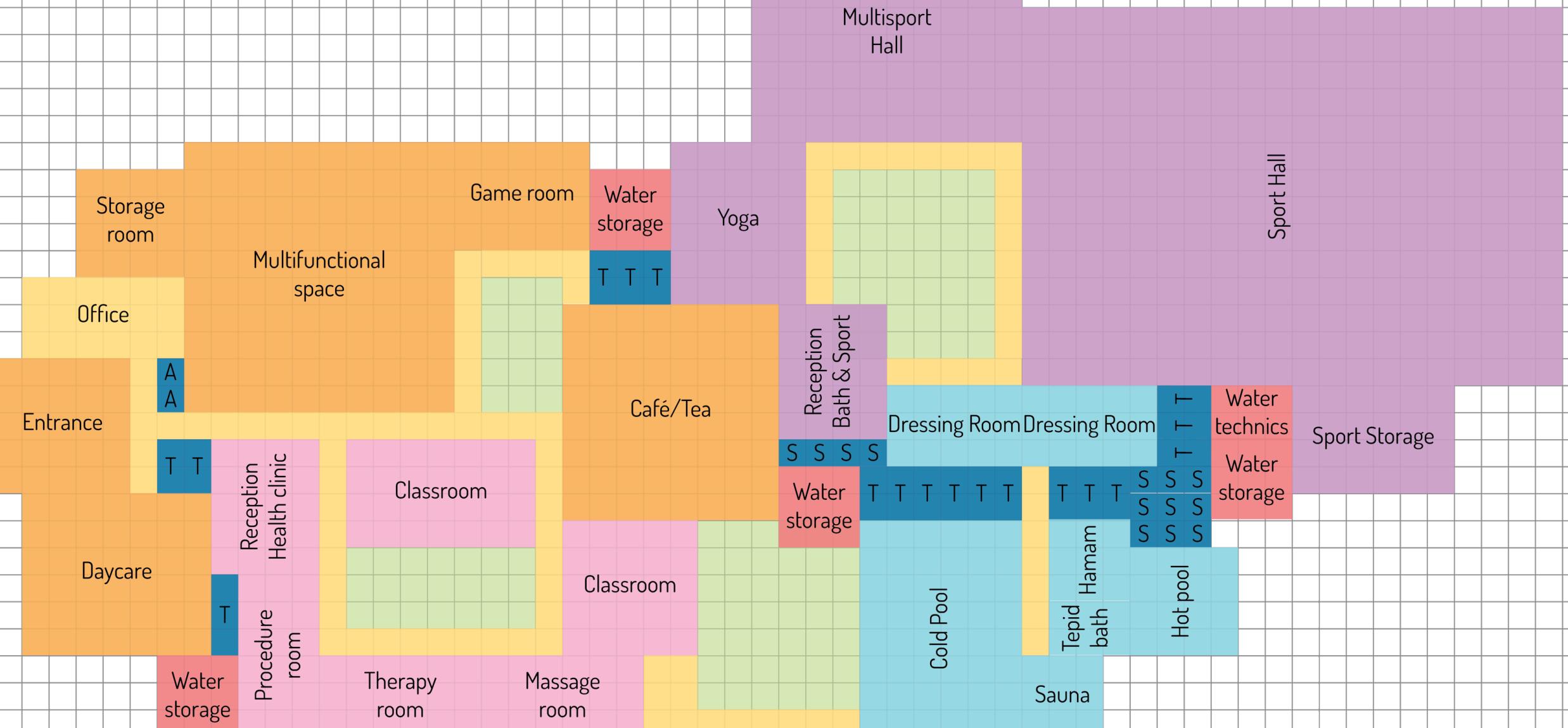


START FROM ENTRANCE
AND CORRIDOR

1. CORRIDORS TILES ARE ADDED UNTIL THE NEXT FUNCTION IN THE PLACING LIST FITS
2. EVERY x TILES, THE CORRIDOR DUPLICATE

CLUSTER OF FUNCTIONS WILL BE ORGANIZED AROUND DIFFERENT COURTYARDS

02_Configuring | Spatial Layout



03_Forming

▲ Entrance

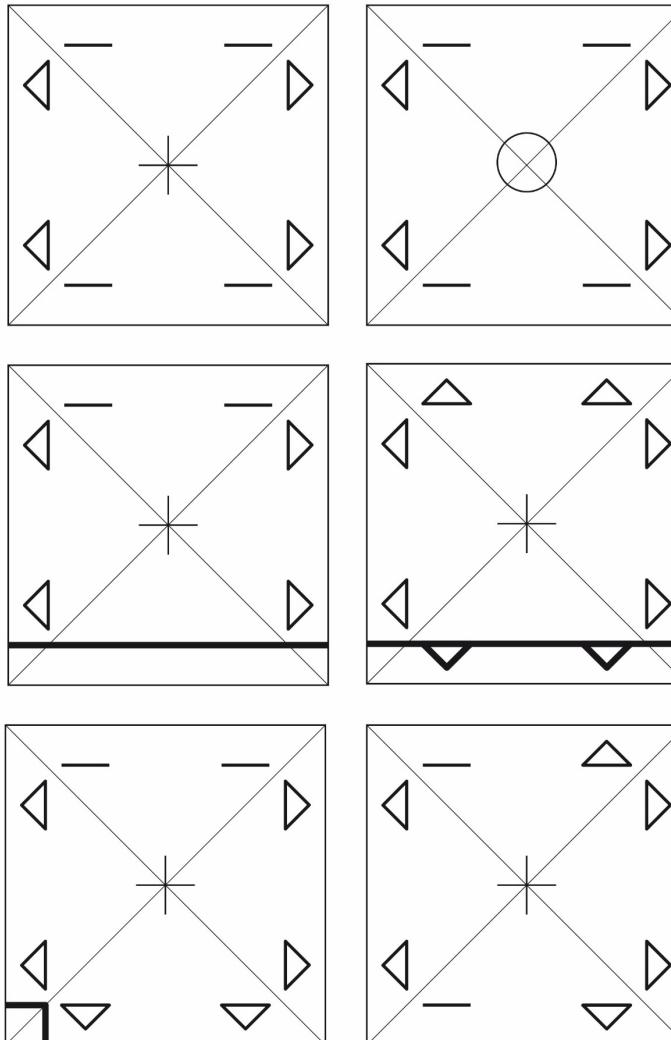
△ Door / Portal

— Interior Wall

— Supporting Wall

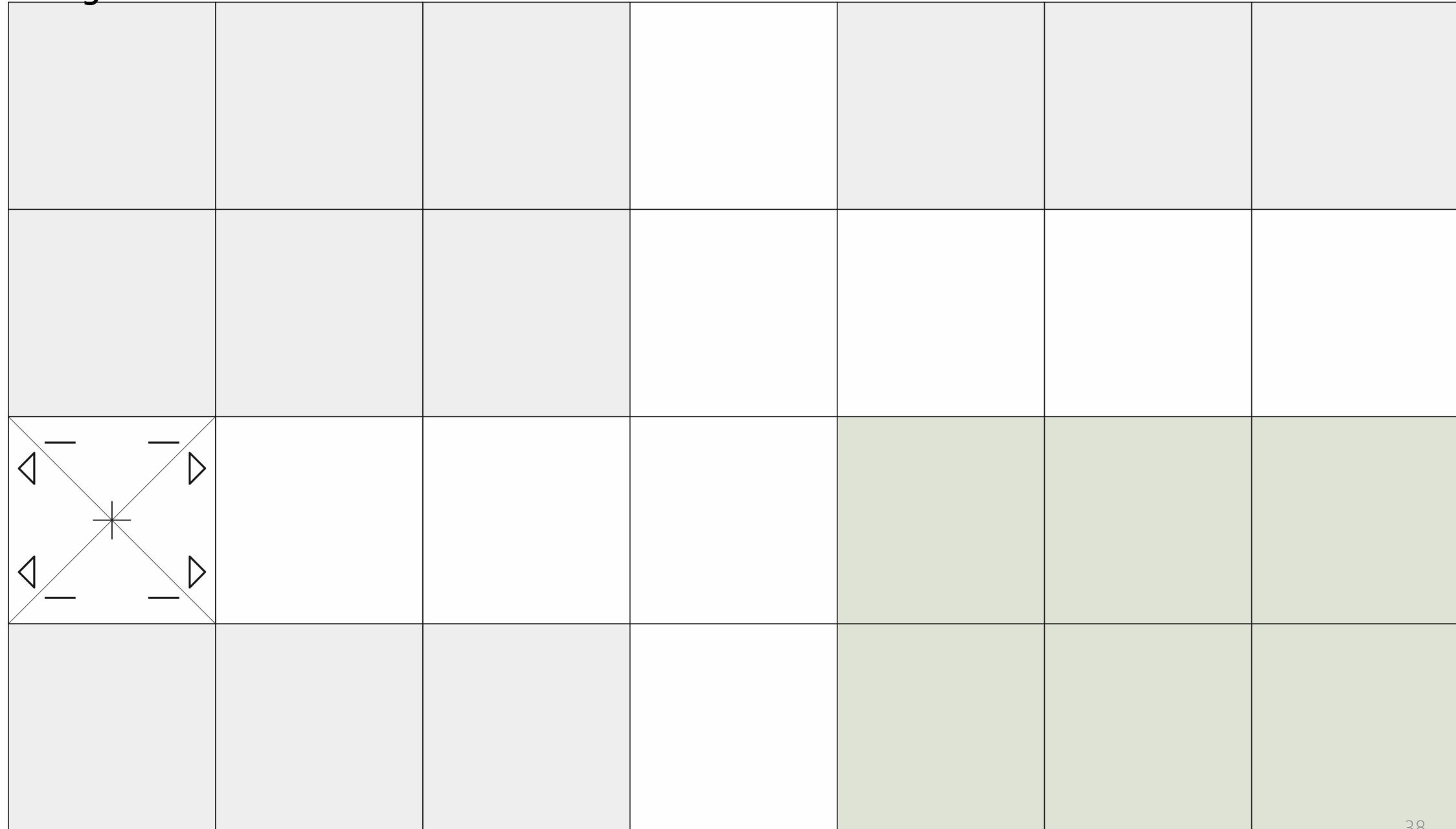
+ Building on Top possible

○ Building on Top not possible

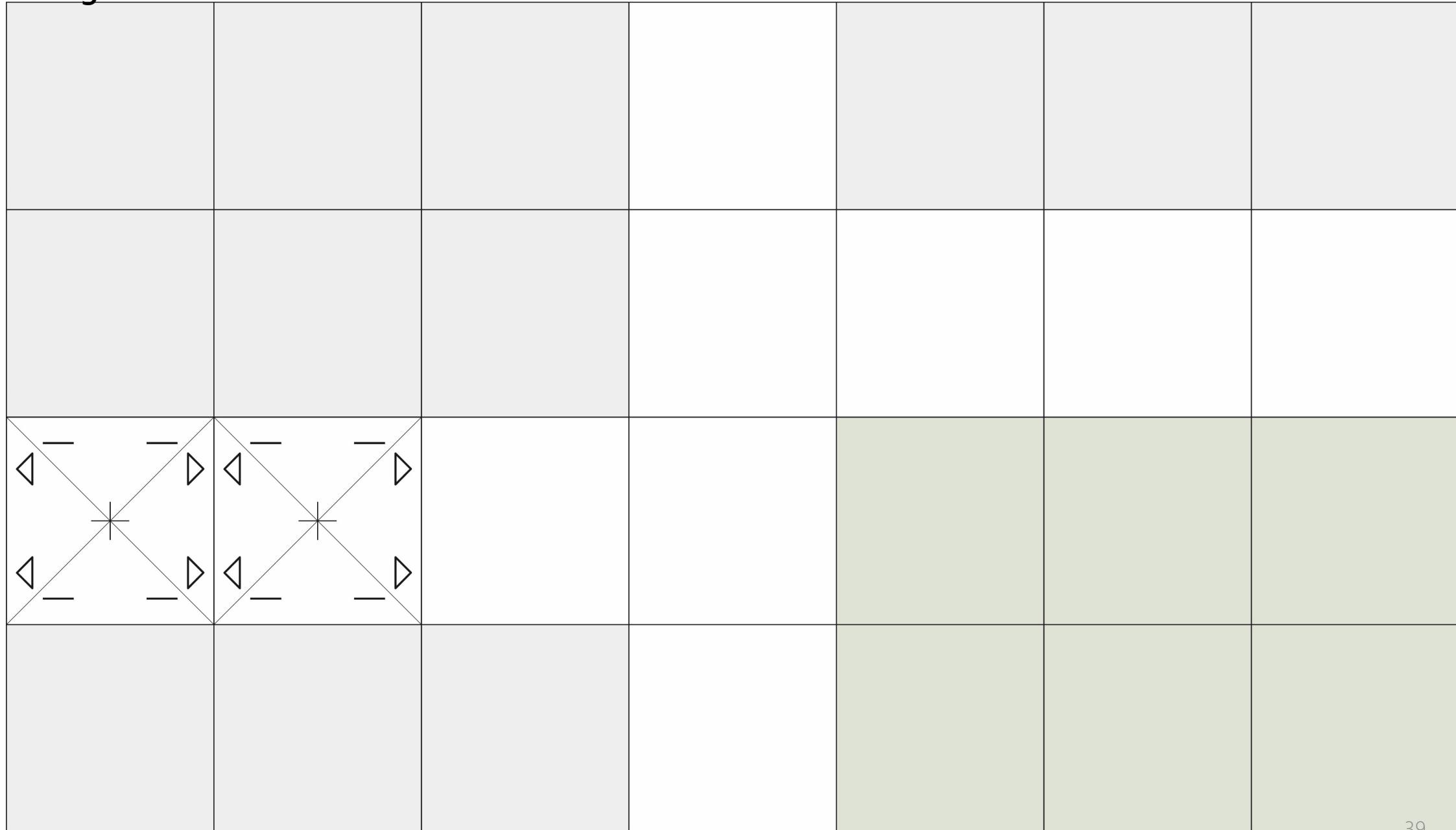


03_Forming

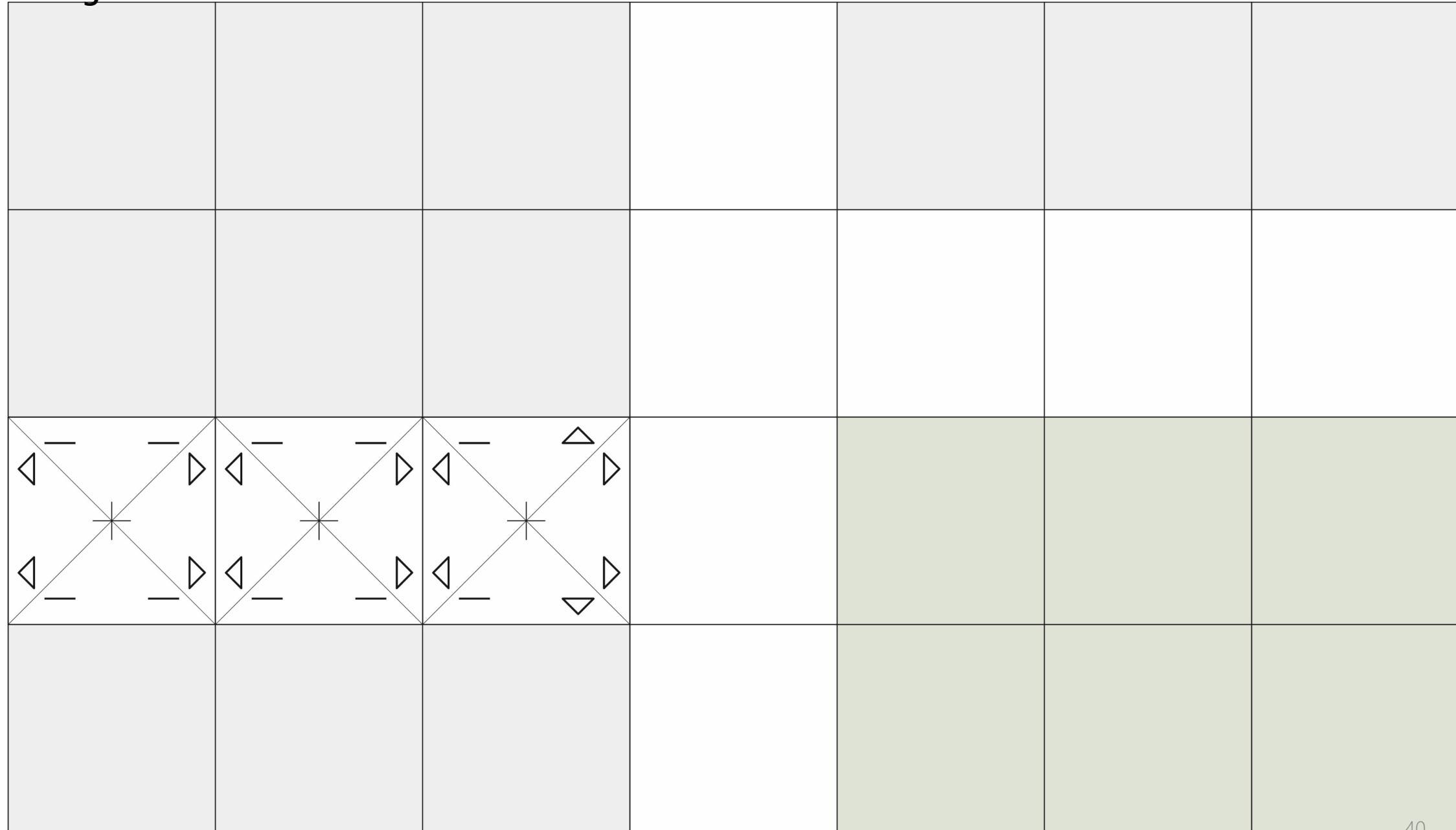
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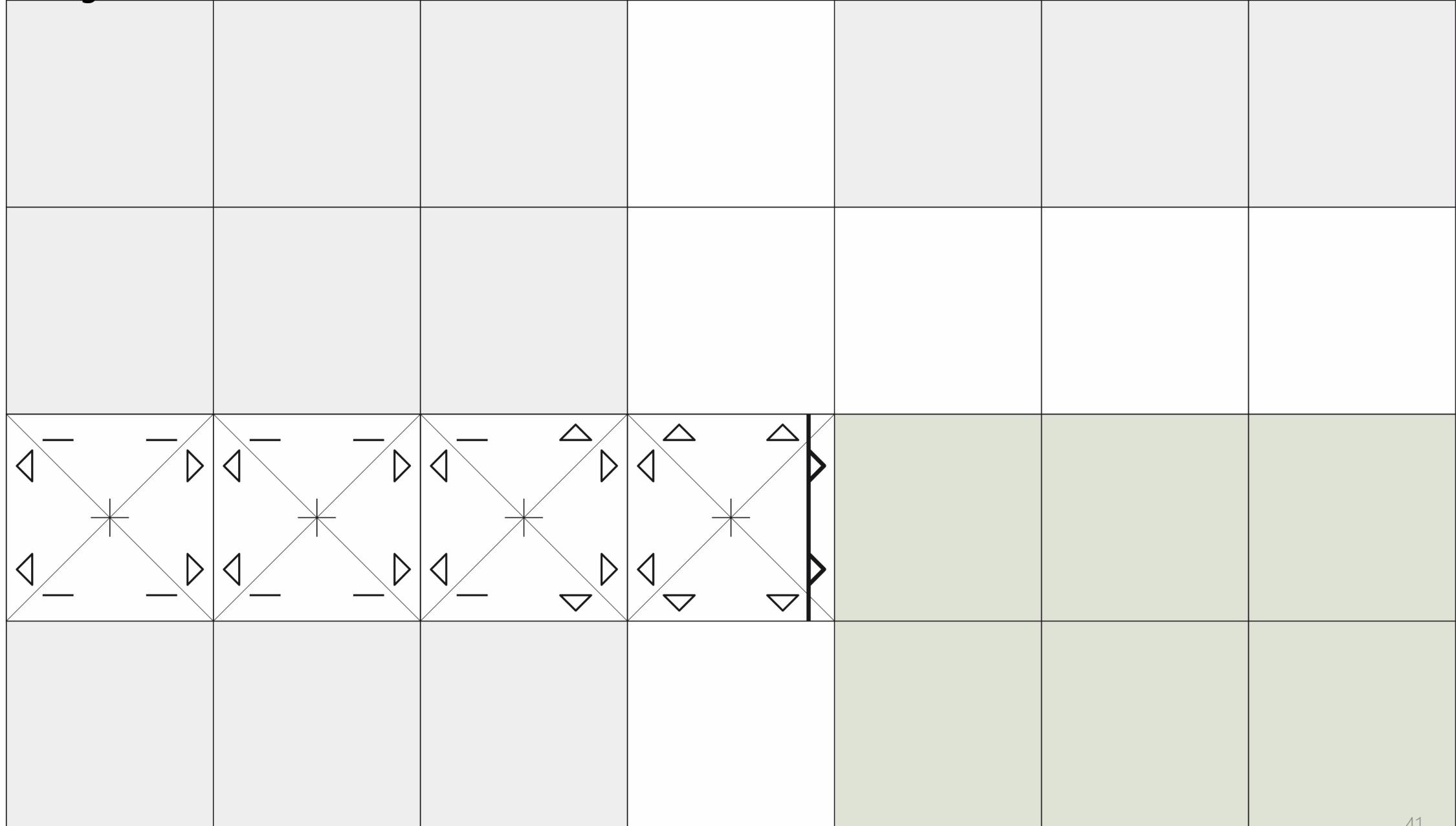
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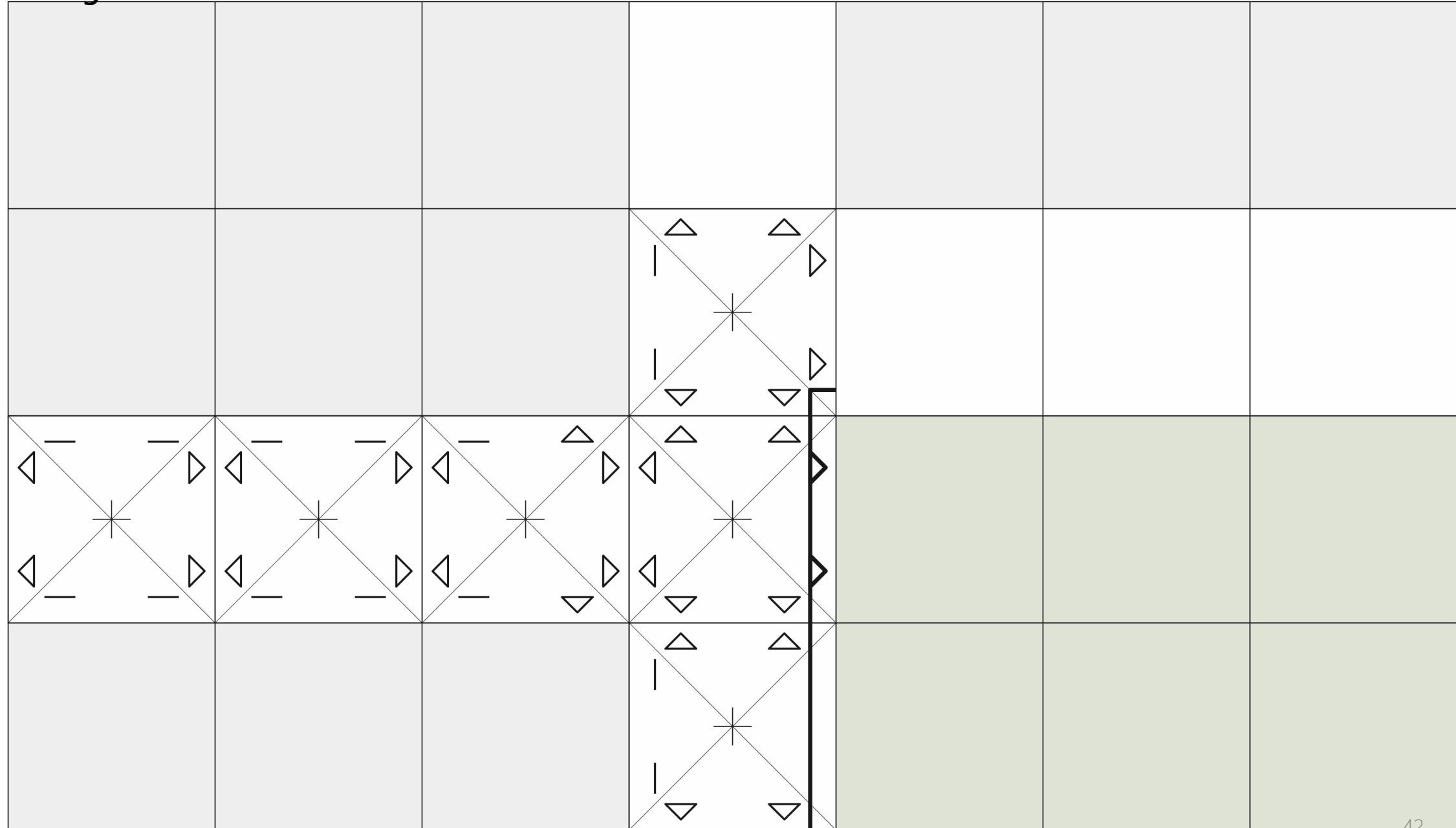
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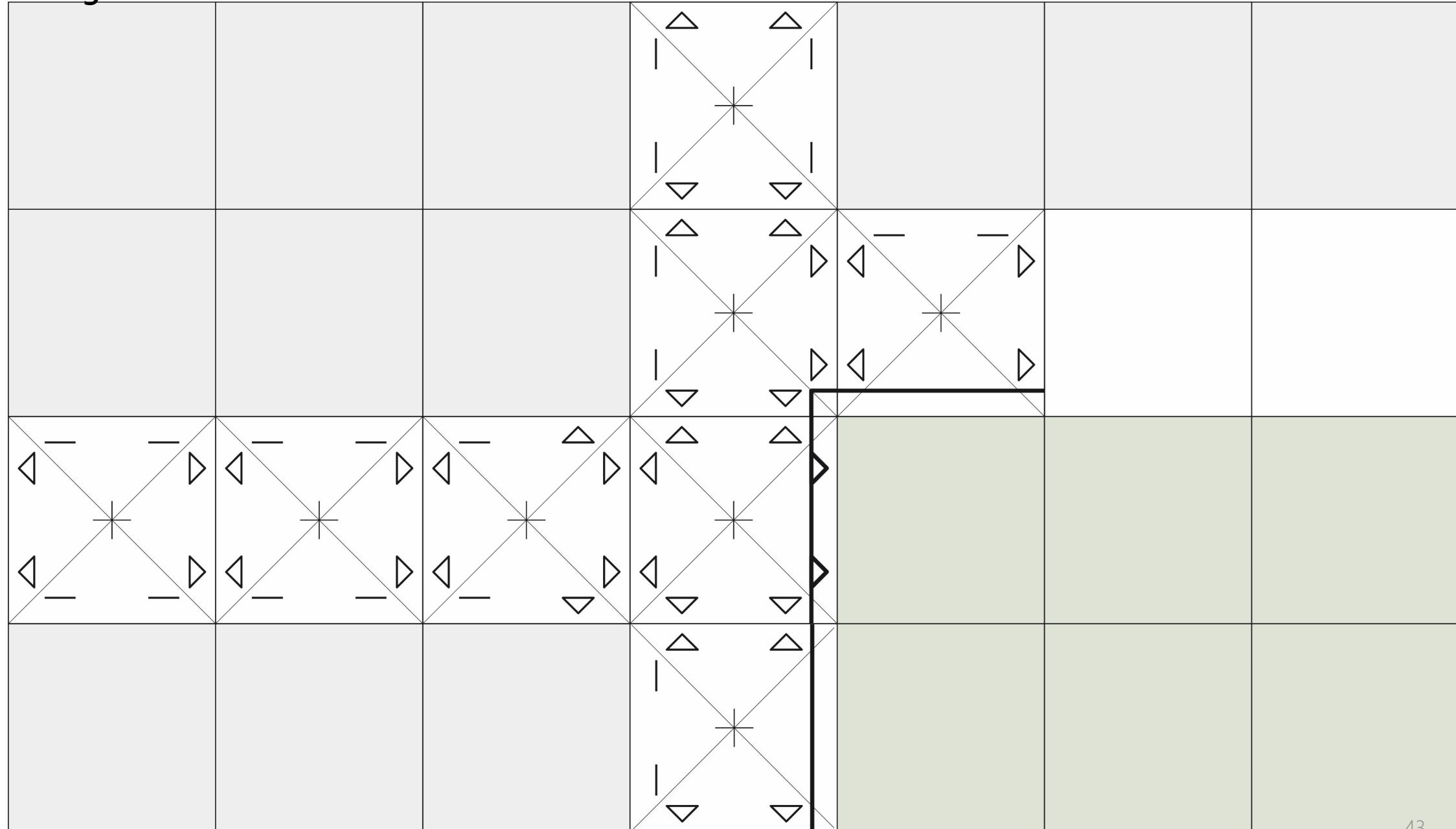
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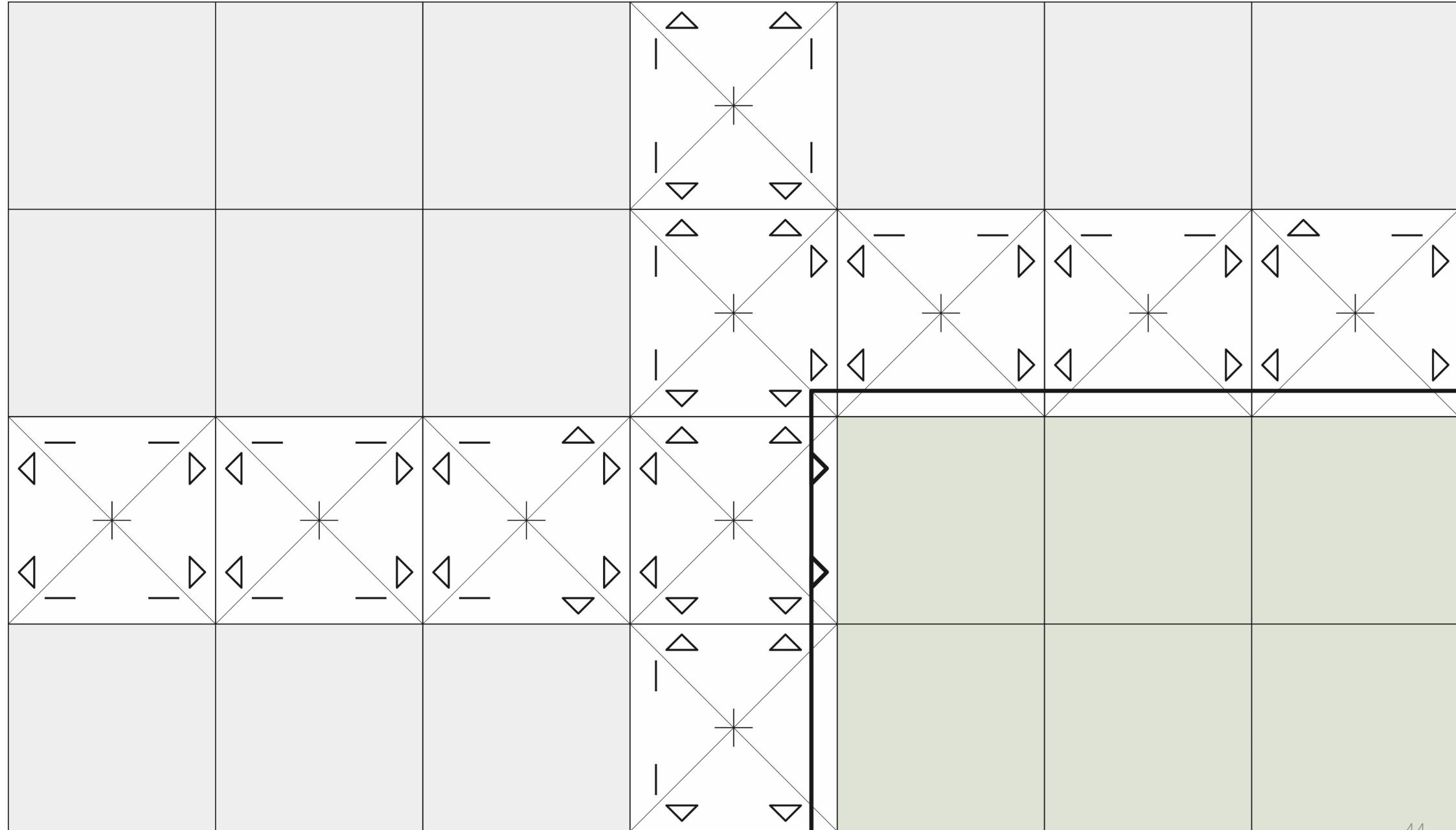


03_Forming

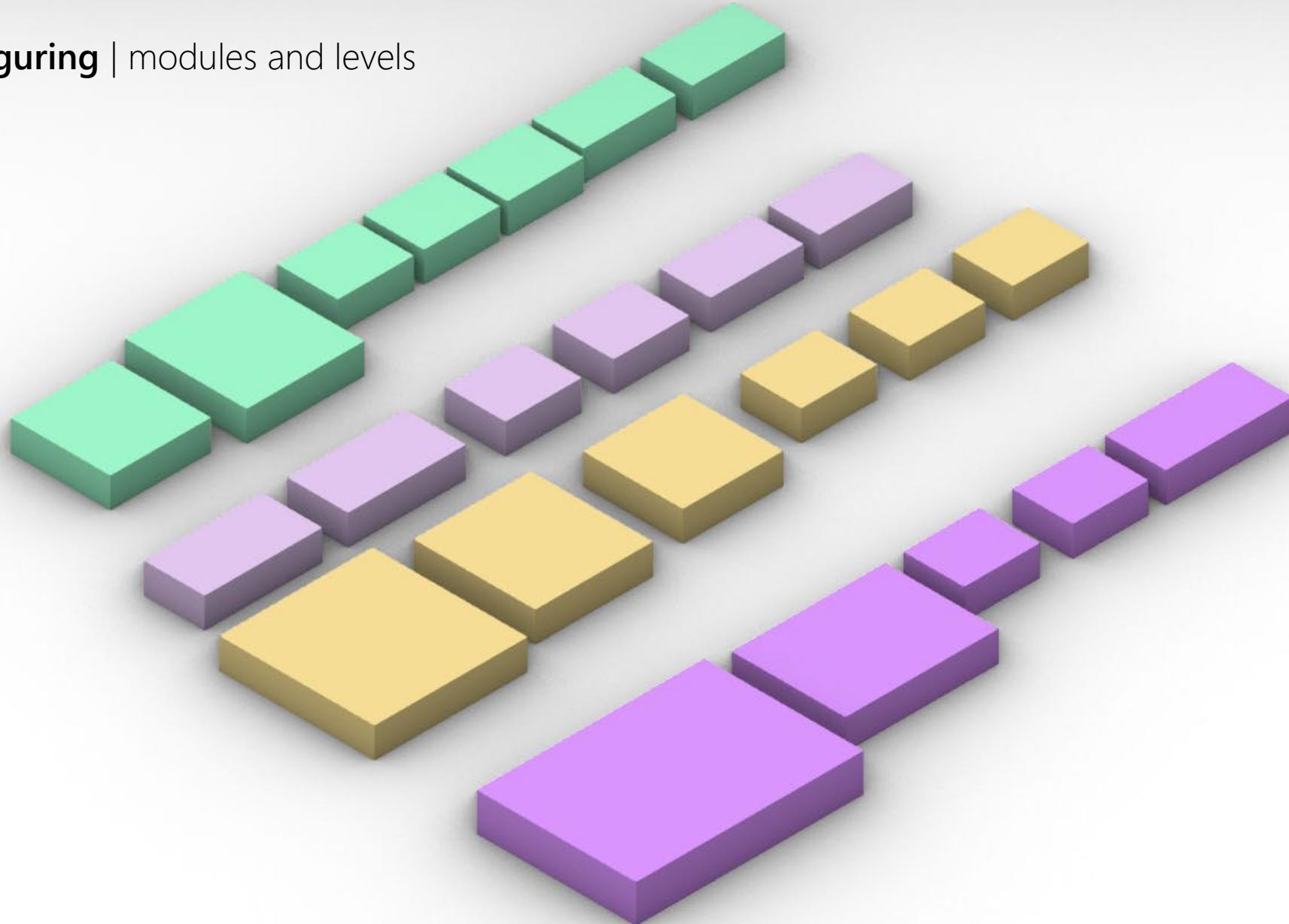


03_Forming



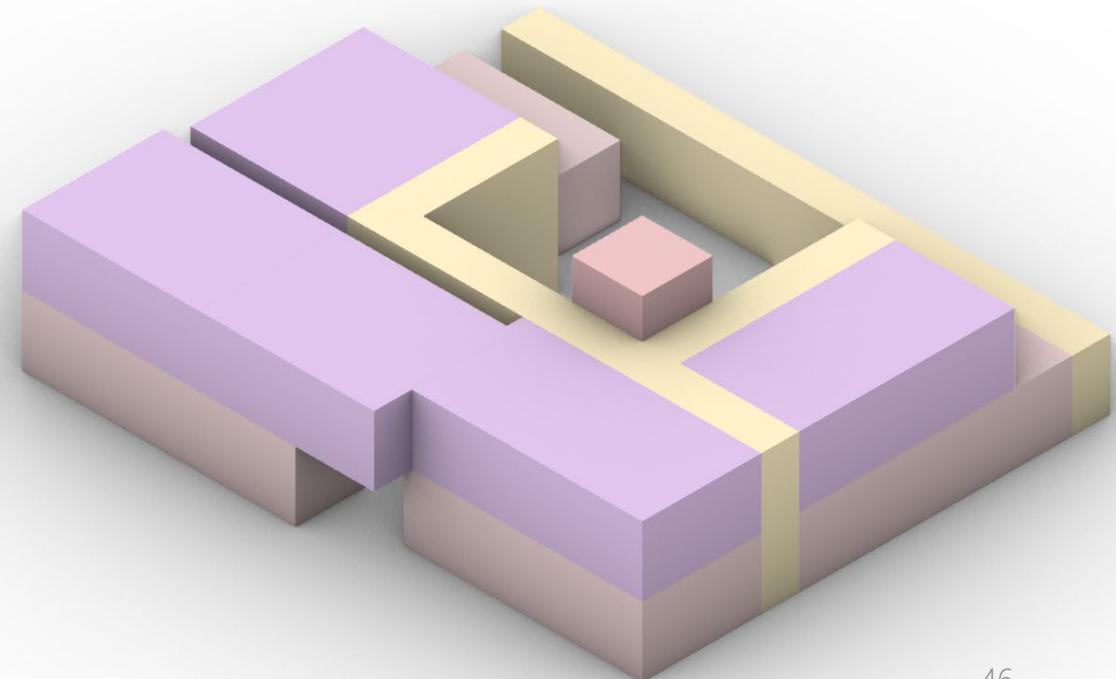
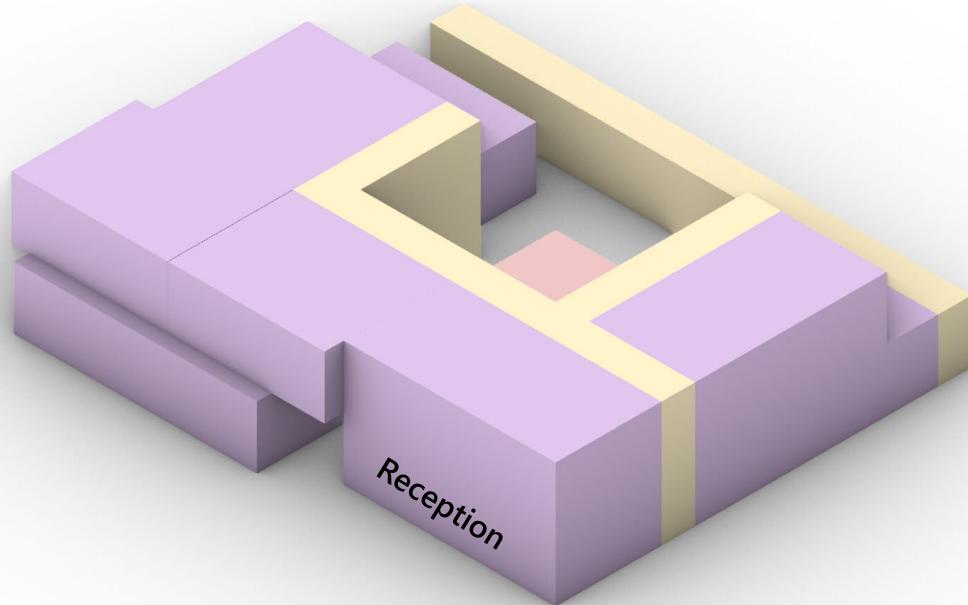


02_Configuring | modules and levels



01_Health Center | modules and levels

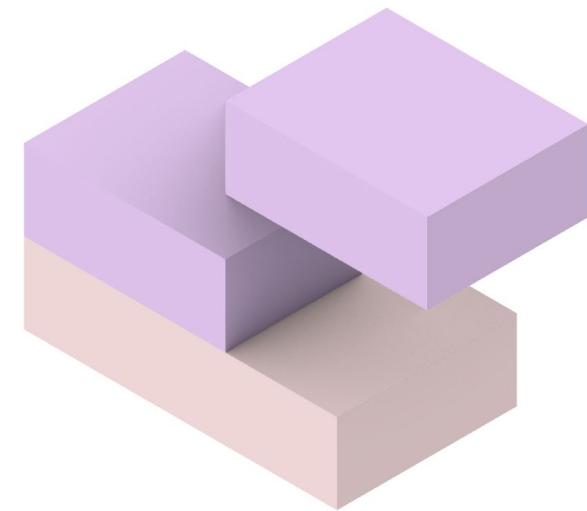
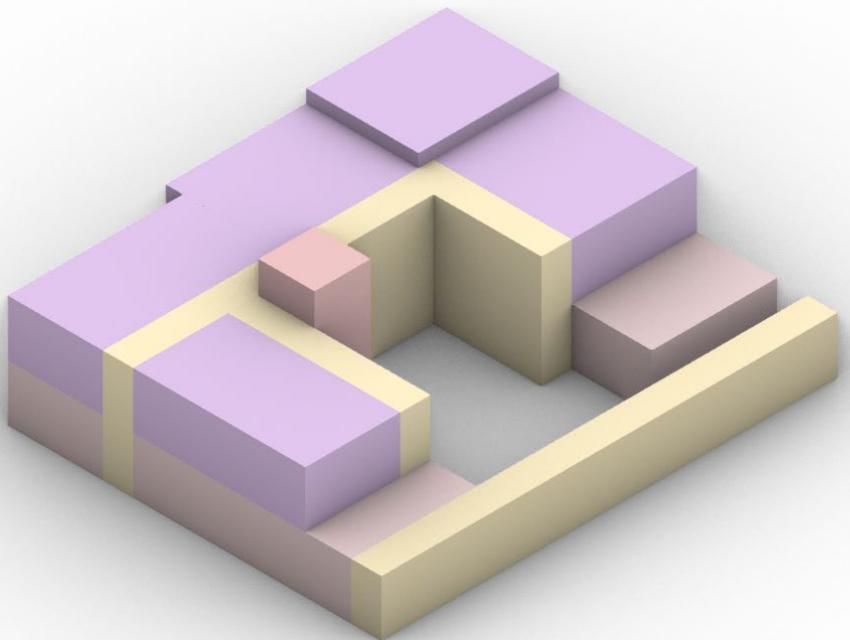
		INDEX	Area/people	Second floor	Privacy	sed space	ccessibility	Big spam	Priority
Health Clinic	Classroom	H_01	1.8	both	mid	Closed	mid		0
	Massage / care room	H_02	12	no	high	Closed	low		0
	Therapy room	H_03	12	no	high	Closed	low		0
	Procedure room	H_04		no	mid	Closed	low		0



01_Health Center | Problem encounter

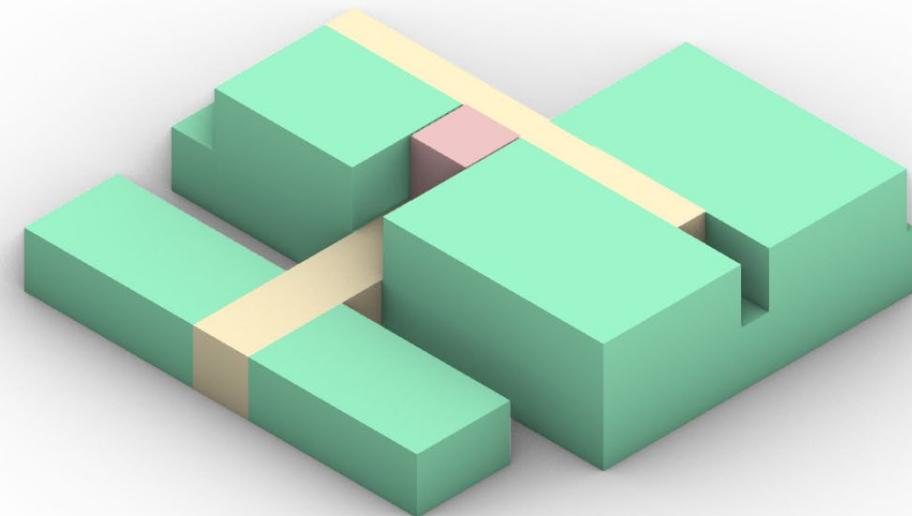
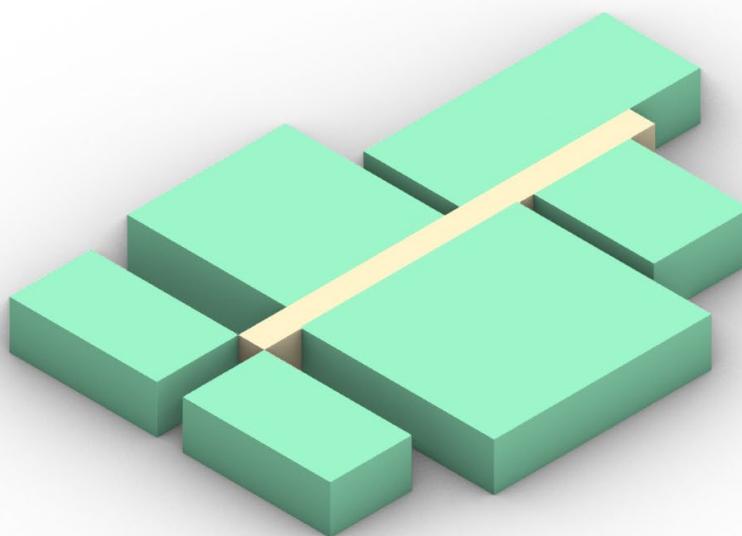
01 lack of modular blocks to complete blocks ex. $\frac{1}{2}$ blocks or $\frac{1}{3}$ blocks

02 Design of ground floor requites add more modules to cover first floor areas ex. Classrooms



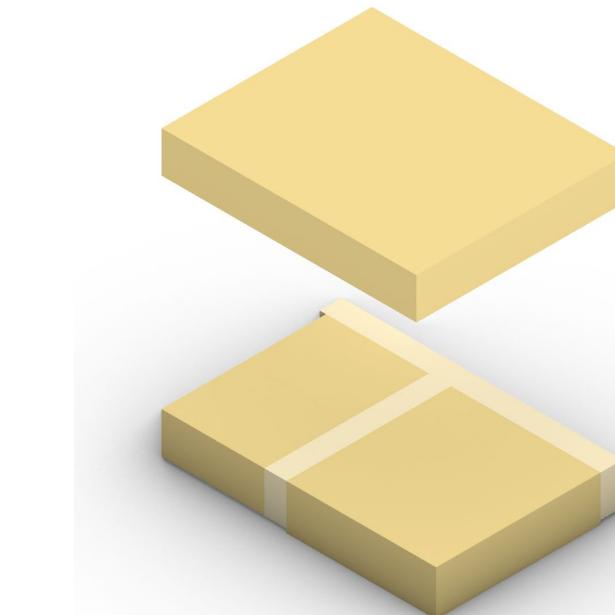
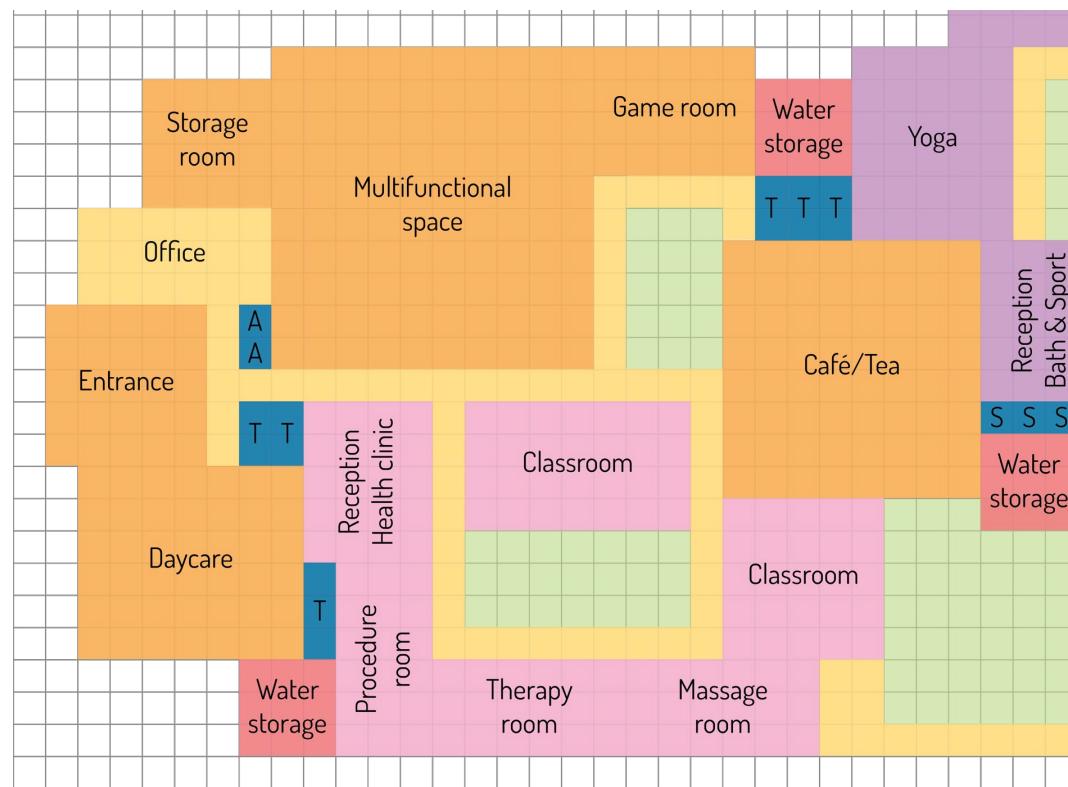
02_Wealthiness Center | modules and levels

	Sauna	T_01	0.9	no	high	Closed	high		0
	Hamam	T_02	0.9	no	high	Closed	high		0
	Hot pool	T_03		no	high	Closed	high		0
	Tepid bath	T_04		no	high	Closed	high		0
	Cold pool	T_05		no	high	Closed	high		0
	Dressing room	T_06		no	high	Closed	mid		1
Wellness center	Equipment	T_07		no	low	Closed	low		1



02_Community Center | modules and levels

	Terrace / courtyard / patio	C_01			no	low	Open	high	-	1
	Garden	C_02			no	low	Open	high	-	1
	DayCare	C_03			no	low	Open	mid	0	
	multi functional space	C_04			no	low	Semi-ope	mid	0	
	Café	C_05			yes	low	Semi-clos	high	1	
	Game room	C_06			yes	low	Closed	mid	0	
	Office	C_07			yes	mid	Semi-Clos	mid	1	
Community Center	Storage room	C_08			no	high	Closed	low	1	



Healing Wounds

Health + Wellness Center
Midterm Presentation

Alex Coelho - Juan Cruz - Georgina Giassia - Thomas Lindemann – Tim Schumann