Dignified through self-determination: Using space | flows

The case of UNHCR refugee camps

P5 presentation

TU Delft Urbanism

Samuel Hartman







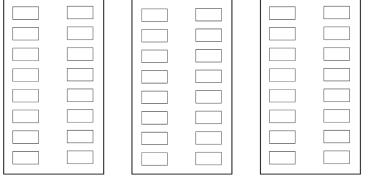


Structure of this Presentation

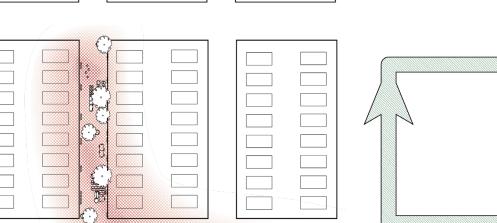
Introduction



Current practices



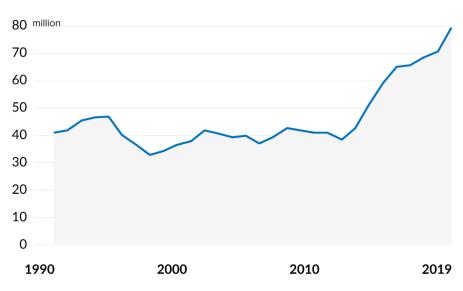
Concept



Proposed Interventions

Numbers | Worldwide trend UNHCR (2019)

Displaced people: 79.5 million



Germany



https://www.unhcr.org/figures-at-a-glance.html

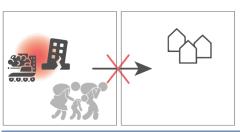
Newly displaced in 2019: 11.0 million persons

Repatriated in 2019: 317,200 persons

Resettled in third countries in 2019: 107,800 persons

10.6 million people became EXTRA displaced in 2019 In 2018: 10.0 million people

UNHCR Mandate I Groups of Concern UNHCR (2003; 2019)



45.7 million

Internally Displaced People (IDP)

focus:



26 million

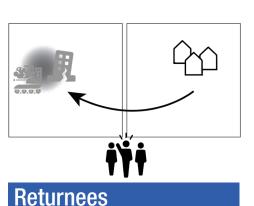
3.9 million people live in planned camps

Refugees



4.16 million

Total: 79.5 million



0.317 million

UNHCR Mandate | Provides or Enhances UNHCR (2003)



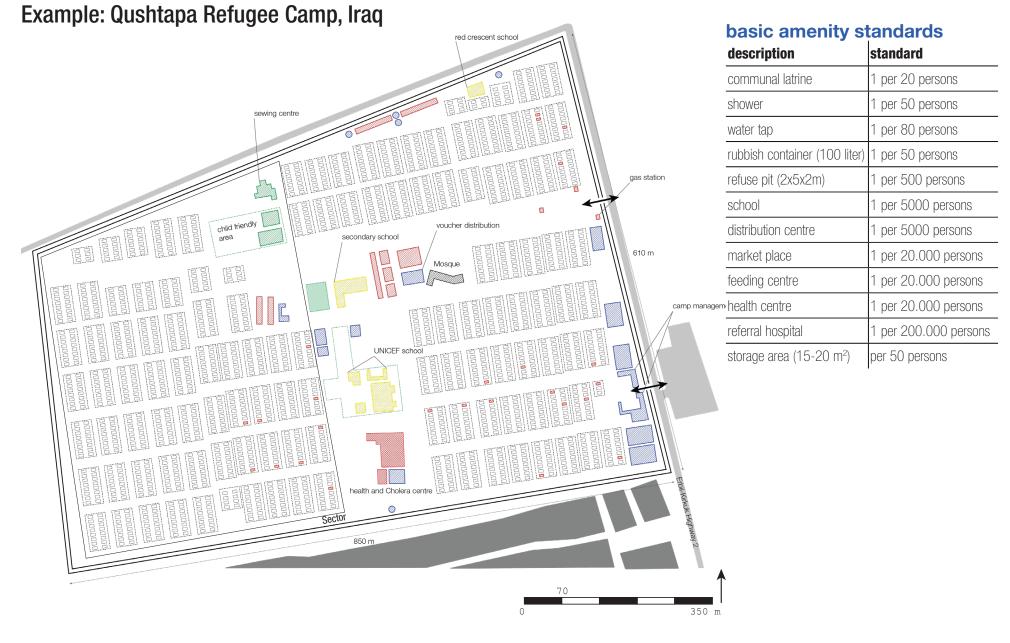




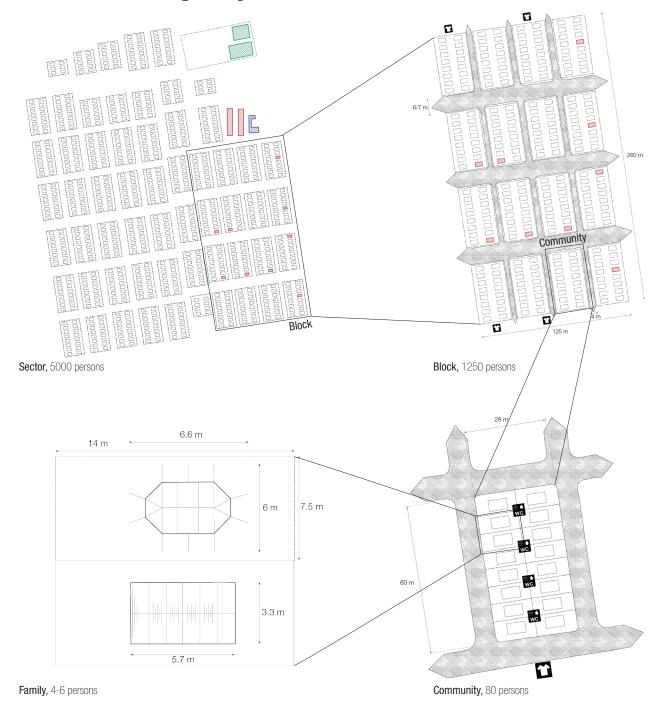




UNHCR Emergency Handbook | Planological Guidelines UNHCR (2020)



UNHCR Emergency Handbook | Scale Related Guidelines UNHCR (2020)



UNHCR Emergency Handbook | Phase Related Guidelines UNHCR (2020)

Emergency Phase

ensuring survival of people, minimum requirements

Transition Phase

transitioning to Post **Emergency standards**

Post Emergency Phase

create more durable systems and provide higher quantities and levels of comfort



7.5-15 Liter/p/day (e.g. using jerrycans)

15-20 Liter/p/day (e.g. extention of existing waternet) >20 Liter/p/day (e.g. permanent waternet)



provide fuel for first 4-5 months; provide stoves

provide access to clean and sustainable fuels



'solar light'; electricity for health centers (e.g. using diesel generators)

provide enough for light and charging devices (200wh/household/day); using sustainable generation methods



1 toilet per 50 people (e.g. using pit toilets)

1 toilet per 20 people

1 toilet per household



collection to dumping pits

transfer to durable solution

create durable solution (e.g. processing by third party)

Emergency phase 6 months **Transitional** phase

2 years

Post emergency phase

20 years

Life in Camps Turner (2016); UNHCR (2019)

Camps are built as temporary solution

"GLOBAL SHELTER

2.1 UNHCR FAMILY TENT

UNHCR Supply Catalogue - Item No 05353











However: average 'stay' in camps is 17 years State of "Undetermined Temporariness"

Turner, 2016, p. 142

Life in Camps Khatib & Armenian (2010); Oka (2014); Turner (2016)

Exclusive focus on short term crisis management and efficiency



State of undetermined temporariness

reinforces:

Low sense of Normalcy

Lack of Agency and Voice

leads to:

Low sense of dignity



Refugee's walking to the Austrian border



Camp inhabitants waiting in line for food in Moria

Dignity I Definition McCrudden (2008); Oka (2014)

Kant's explanation of Dignity:

"[T]o treat people with dignity is to treat them as autonomous individuals able to choose their destiny."

McCrudden, 2008, p. 659

Premise:

Dignity is positively influenced by Self-Determination

Self-Determination | Criteria Jacobsen, Oliver, and Koch (2009); Khatib & Armenian (2010); Oka (2014); Woroniecka-Krzyzanowska (2017)

Self-Determination

is reached through:



Providing food in Ayn Issa camp, Syria

providing first needs



Informal shops in Camp Zaatari, Yordan

(informal) economic activity



Gardens in Camp Zaatari, Yordan

spatial self-determination

Goal

To foster the dignity of <u>UNHCR planned refugee</u> camp inhabitants by: raising the sense of (spatial) self-determination

+

enhancing (informal) economic activity.

(informal) economic activity I defined

providing space for economic activity





providing day-labor jobs

installation (1 person 8 hour working days)



maintenance (1 person 8 hour working days/month)



spatial self-determination I defined

physically self-structuring space





self deciding how to use a space





Methods I How to gain input?

Literature reviewing



Case studies





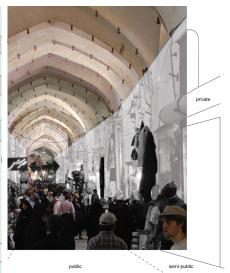
Interviews





Best case study

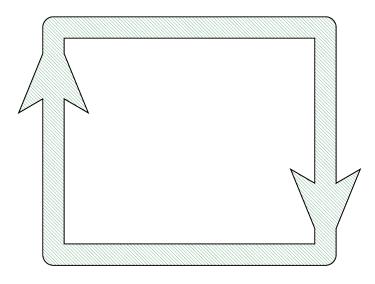




Interventions

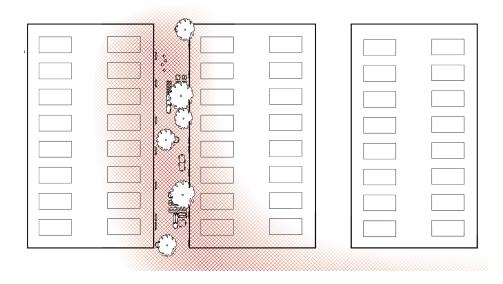
Two Perspectives

Flow-related Interventions



generate activities which are present in any camp in every context

Spatial Interventions



spatial interventions can enhance spatial self-determination and/or (informal) economic activity

that enhance

- -(informal) economic activity
- -spatial self-determination

Flow-related Intervention Principles | Emergency Phase

1 provide and process essential flows in any way possible water, cooking fuel sewage collection, waste collection

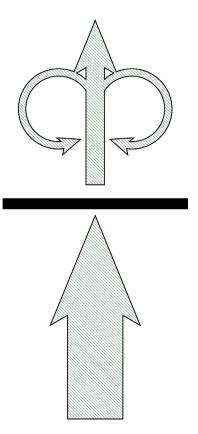


Flow-related Intervention Principles | Transition Phase

provide flows in any way possible water, cooking fuel | biogas, electricity

make use of waste flows

(grey) water | irrigation rainwater collection | irrigation sewage I biogas and vertilizer waste | recycled material





Flow-related Intervention Principles | Post Emergency Phase

1 provide flows

water, cooking fuel | biogas, electricity

+

2 make use of waste flows

(grey) water | irrigation rainwater collection | irrigation sewage collection | biogas and vertilizer waste collection | recycled material



3 produce a maximum of flows locally electricity

(homegrown food)

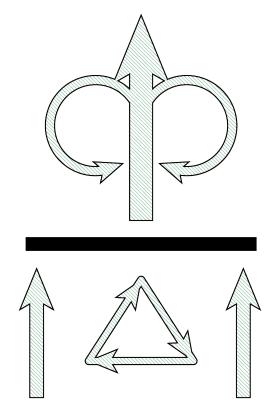
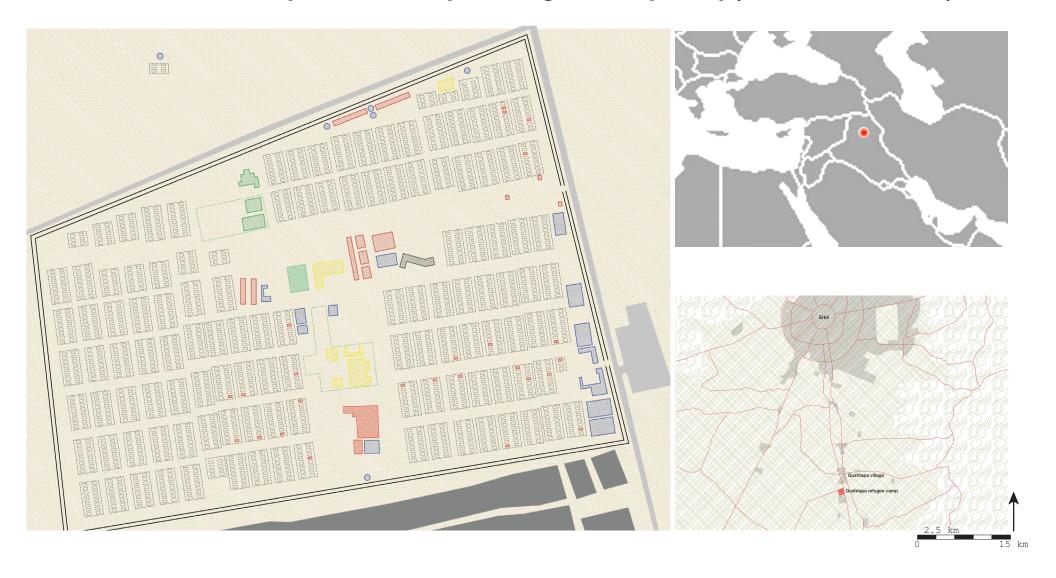




Illustration of Principles | Qushtapa Refugee Camp, Iraq (7900 inhabitants)

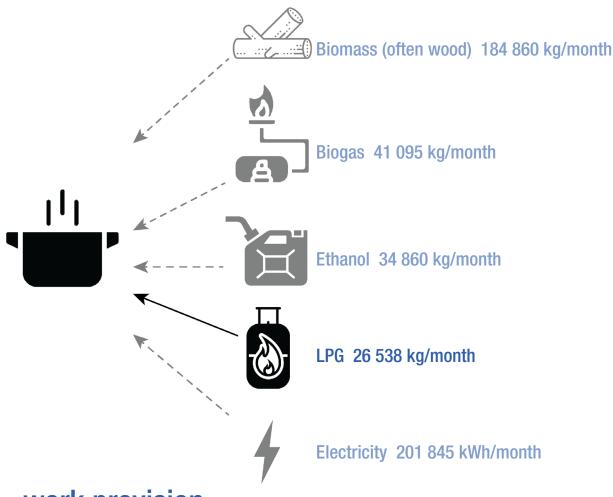


example: providing cooking fuel processing sewage sludge

Flow-related Interventions, Qushtapa | Emergency Phase

Generate and Process essential Flows in any way possible

providing cooking fuel | LPG







work provision

installation: none

maintenance: 24 1p, 8h working days/month



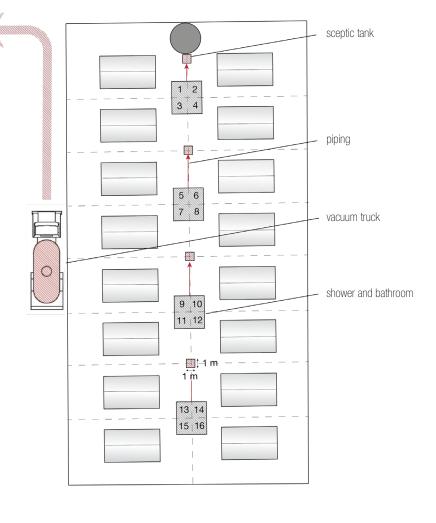
Flow-related Interventions, Qushtapa I Emergency Phase

Generate and Process essential Flows in any way possible

processing sewage sludge (265 m³/month)







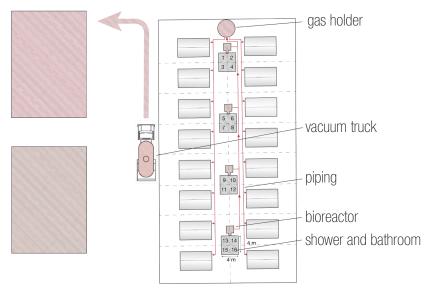
work provision installation: none maintenance: none

Flow-related Interventions | Transition Phase + Post Emergency Phase

Re-Use Reststreams + Generate and Process all Flows Inside the Camp

producing biogas by processing sewage sludge

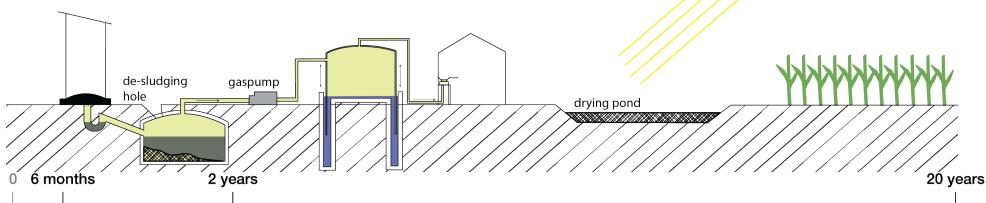
biogas (70 776 m³/month) sewage sludge (34 m³/month)







installation: 1764 1 p, 8 h working days maintenance: 41 1 p, 8 h working days/month



Flow-related Interventions

	Emergency Phase	Transition Phase	Post Emergency Phase
drinking water (8410 m³/month)	drilling wells		
grey water (7190 m³/month)	greywater infiltration pits	waternet	
		grey water collection and filte	ering system
rain water		rainwater collection system	
electricity (125 MWh/month)		electricity net	
			self generating electricity (PV-panels)
solid waste (19 223 kg/month)	collect solid waste	collect and recycle solid was	te

Flow-related Interventions



TOTAL WORK PROVISION: installation: 2949 1 p, 8h days maintenance: 839 1 p, 8h days/month



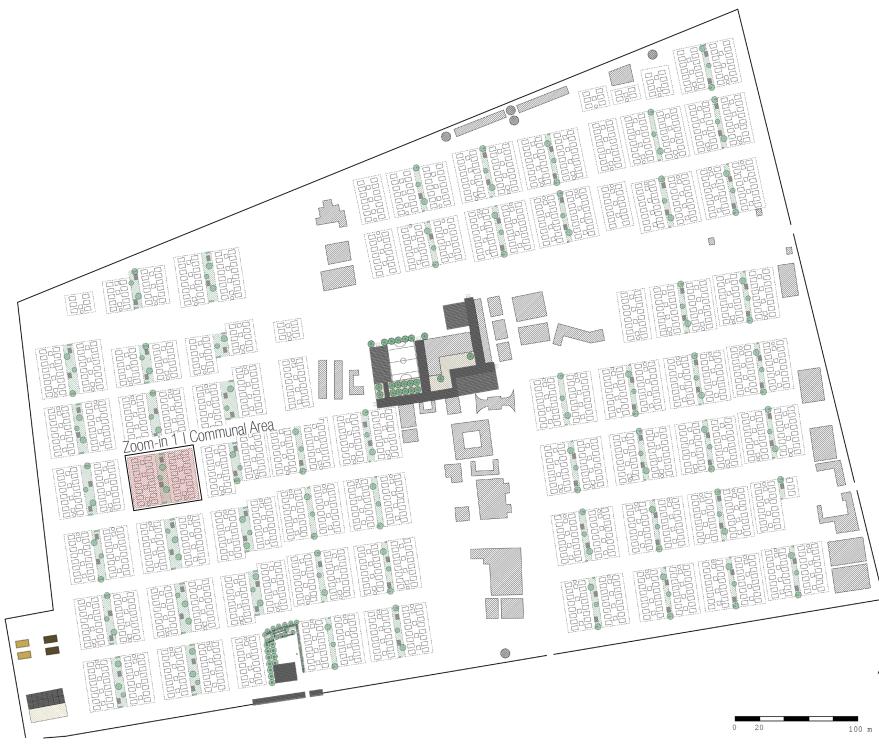
Flow-related Interventions | What Does it Mean Spatially?



Spatial Interventions



Spatial Interventions



Zoom-in 1 | Communal Area

Principle 1 | broken lines of sight

Principle 2 | creating diverse borders

Principle 3 | private-public transition

Principle 4 | arranging different entrances

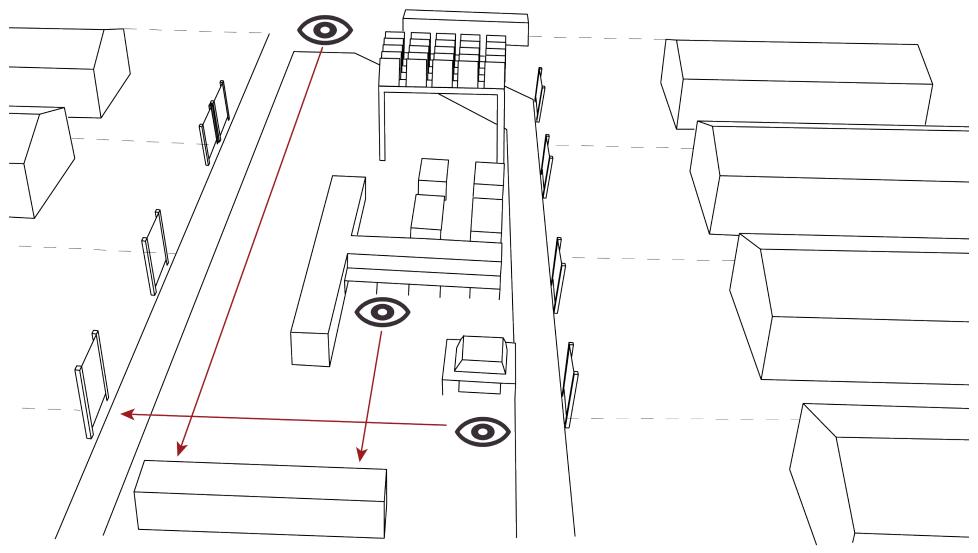
Principle 5 I different pavement types

Principle 6 | providing shade and character

Principle 7 | provide seating possibilities

Principle 8 | provide materials for self-arrangement

Principle 9 | rainwater collection for irrigation



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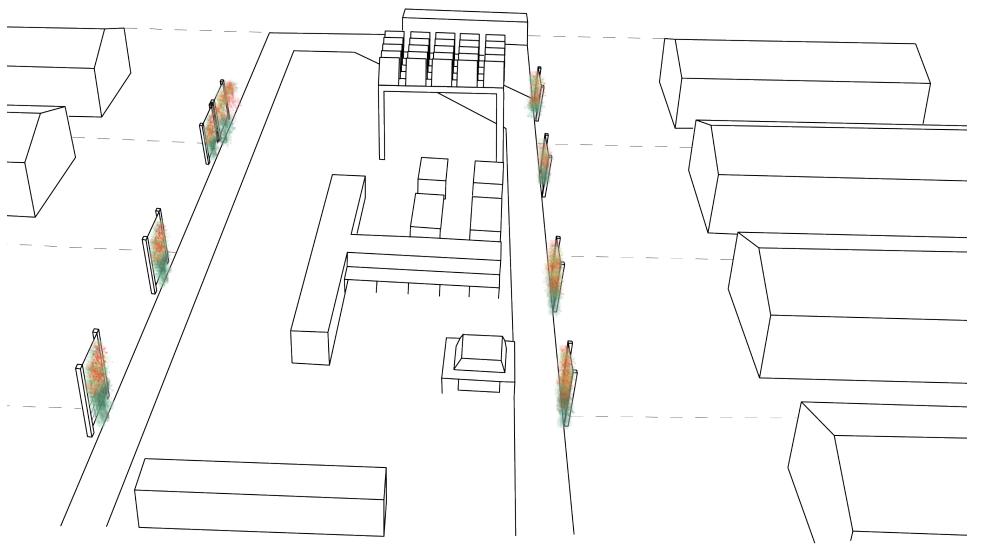
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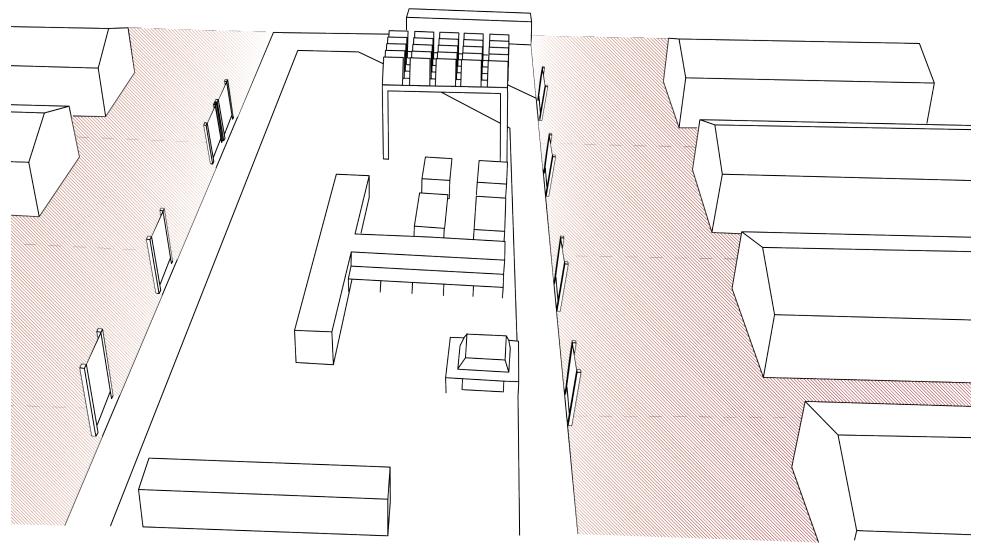
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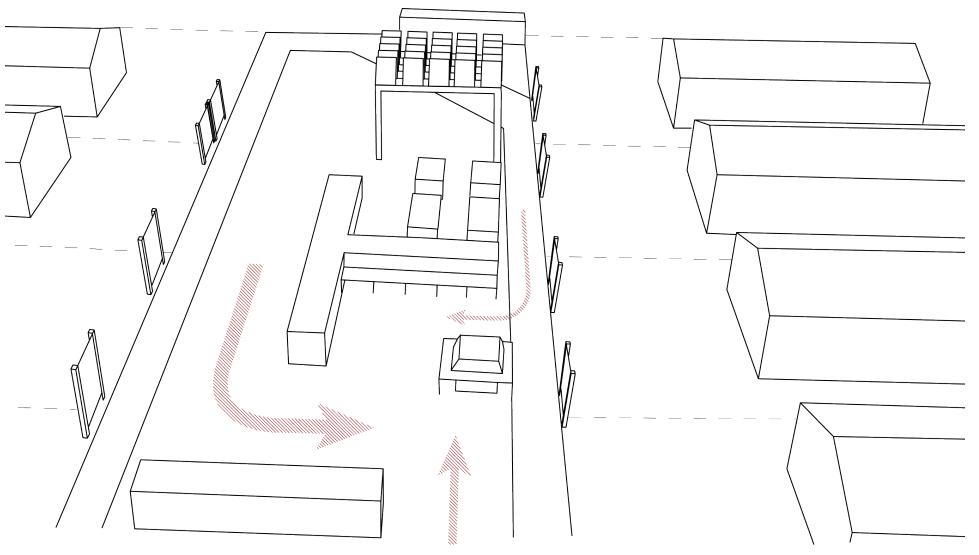
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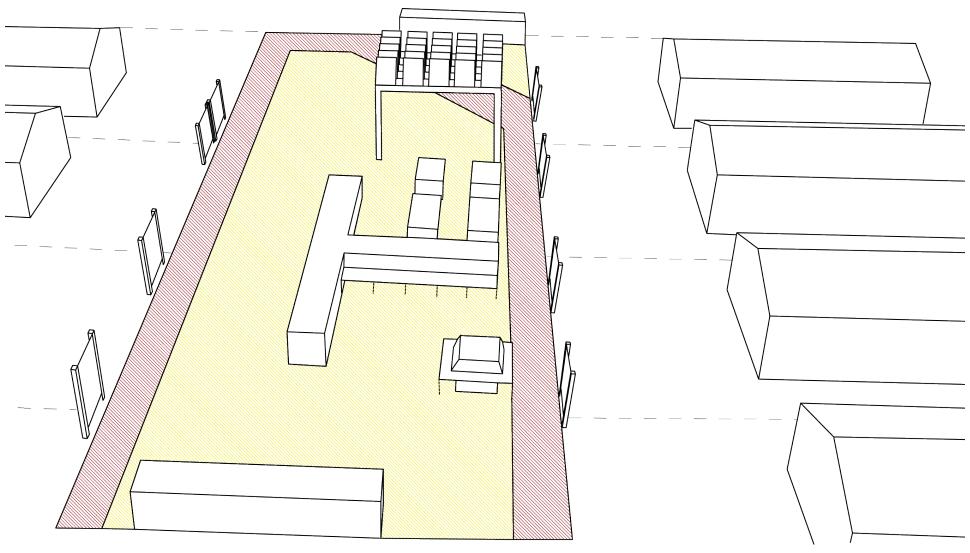
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Spatial Interventions | Design Principles Zoom-in 1 | Communal Area **Principle 1 | broken lines of sight Principle 6 | providing shade and character Principle 7 | provide seating possibilities Principle 2 | creating diverse borders Principle 3 | private-public transition Principle 8 | provide materials for self-arrangement Principle 4 | arranging different entrances Principle 9 | rainwater collection for irrigation Principle 5 I different pavement types Principle 10 | allowing occasional passage of vehicles**

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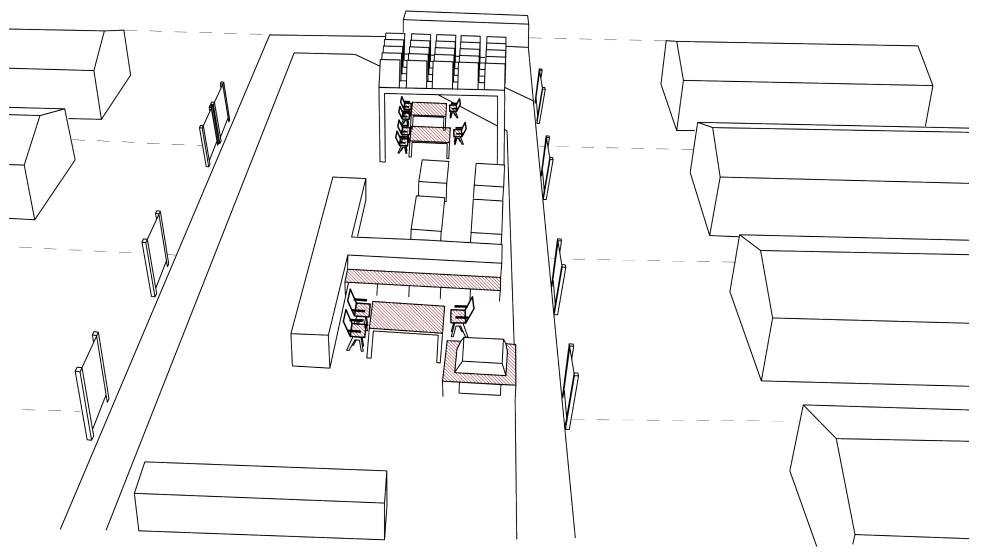
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Spatial Interventions | Design Principles

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Principle 5 | different pavement types

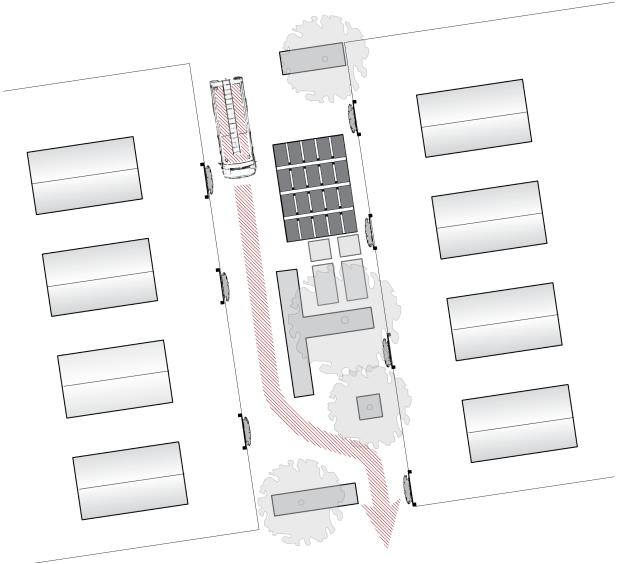
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Spatial Interventions | Element requirements

Zoom-in 1 | Communal Area

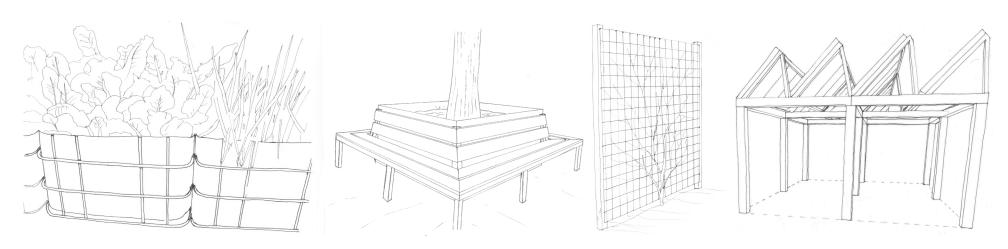
Element 1 (1x1x0.8m) | used cut open watertanks as plant beds

Element 2 (2x2x0.8m) I used cut open watertank with fixed bench

Element 3 (1.5x0.2x2m) | growframe Element 4 (4x4x3m) | PV-structure

-cheap

- -widely available
- -simple to work with
- -maintain a temporary character

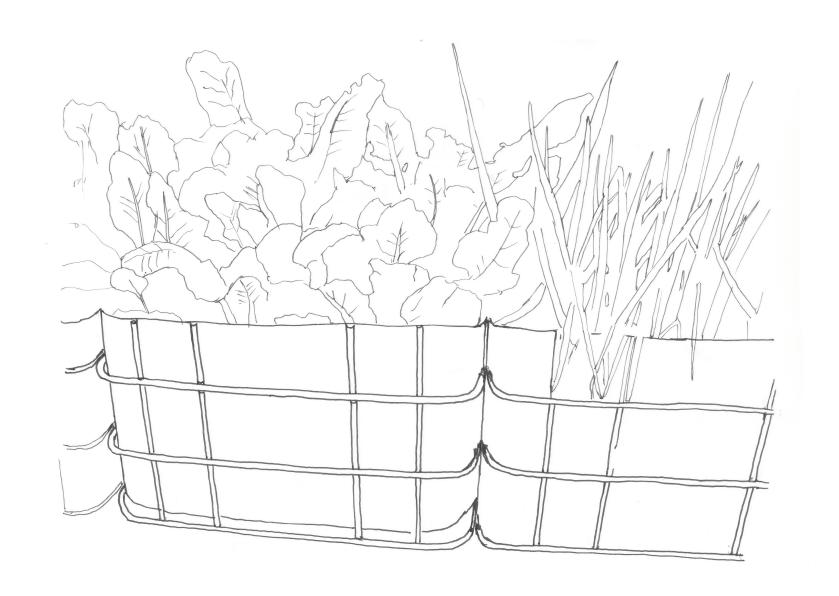


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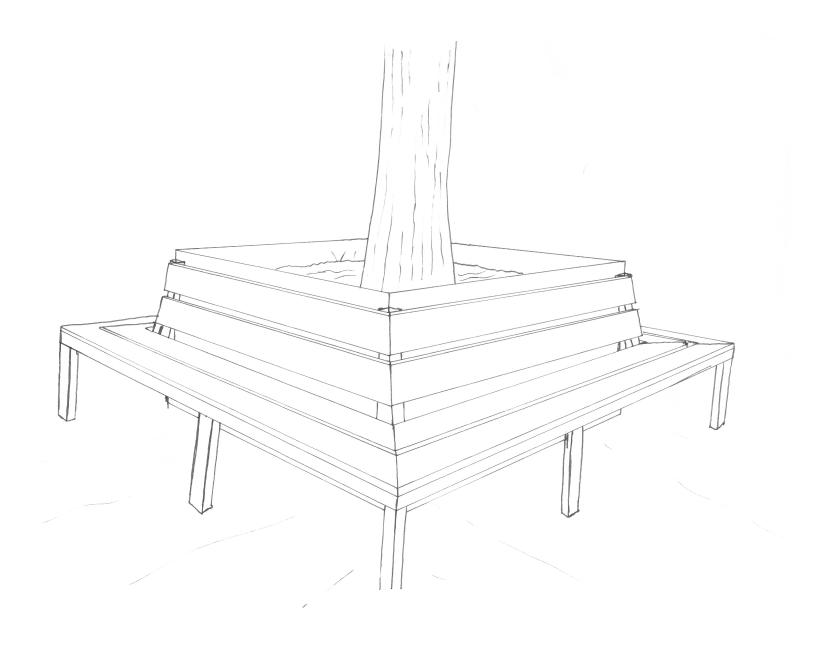


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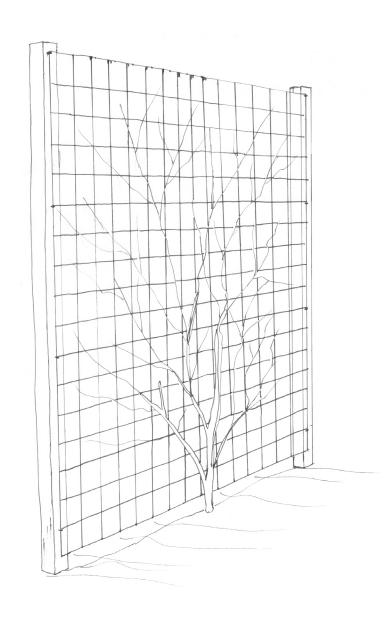
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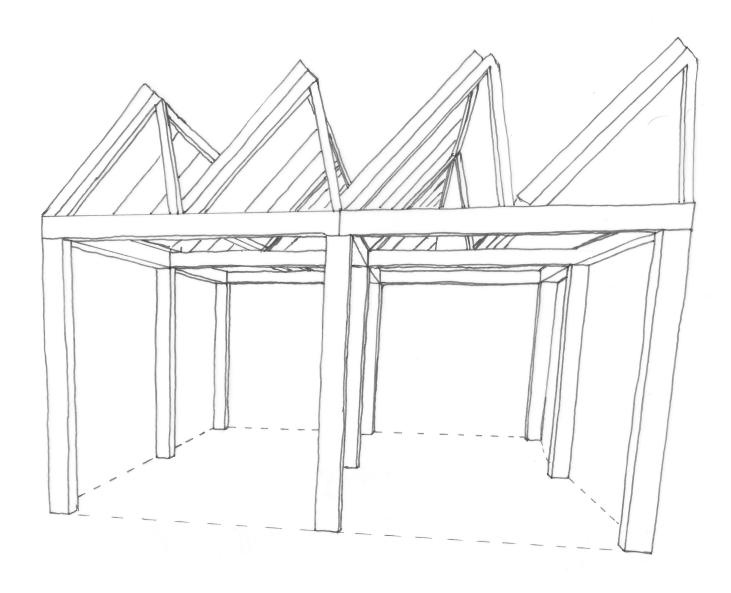
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Spatial Interventions | Emergency Phase Zoom-in 1 | Communal Area

Legend Road Shelters Bathroom Growframe 12.5 m 0 2.5 5

Spatial Interventions | Transition Phase

Zoom-in 1 | Communal Area



Spatial Interventions | Post Emergency Phase Zoom-in 1 | Communal Area

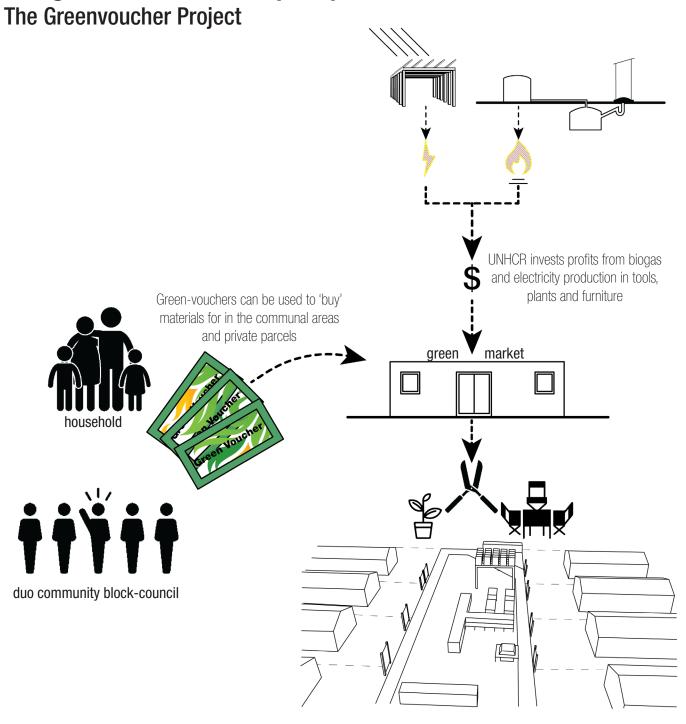


Spatial Interventions | Post Emergency Phase

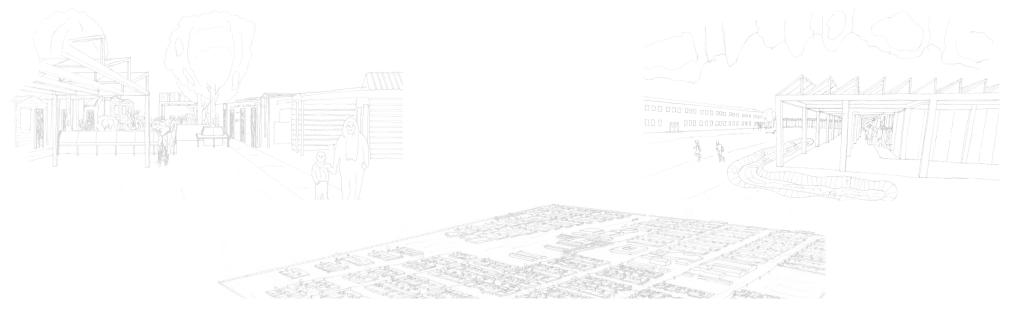
Zoom-in 1 | Communal Area



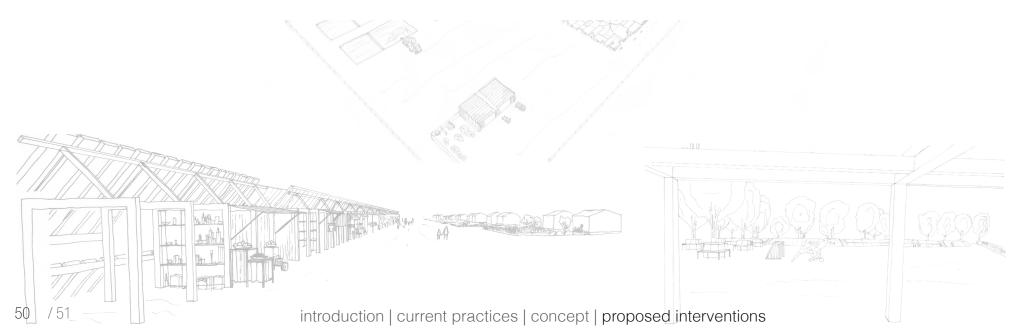
Integration of the two perspectives

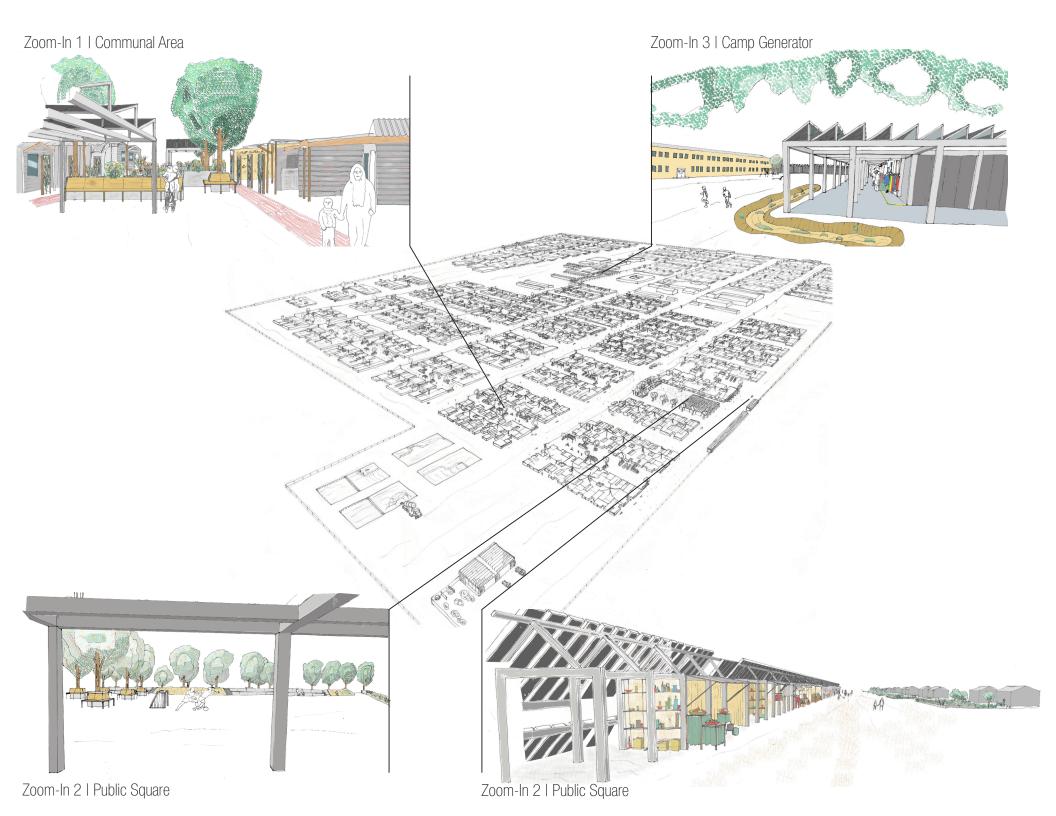


recommendations:



- give people freedom on their parcel
- implement modular interventions to enable win-win situations for all stakeholders
- include inhabitants in every facet of camp management
- be aware of the constant 'balance act' between temporariness and liveability





Spatial Interventions | Zoom-in 2

Public Square

Legend

Road

Gravel foundation

Public Square area

Shelters

Bathroom



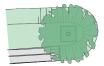
Informal shelter structures



Gasholder



Tree in water tank with fixed benches



Height-difference with build in bench



Growframe



PV-structure



Spatial Interventions | Zoom-in 3

Camp Generator

Legend

Road

Gravel foundation

Public Square area

Shelters

Bathroom

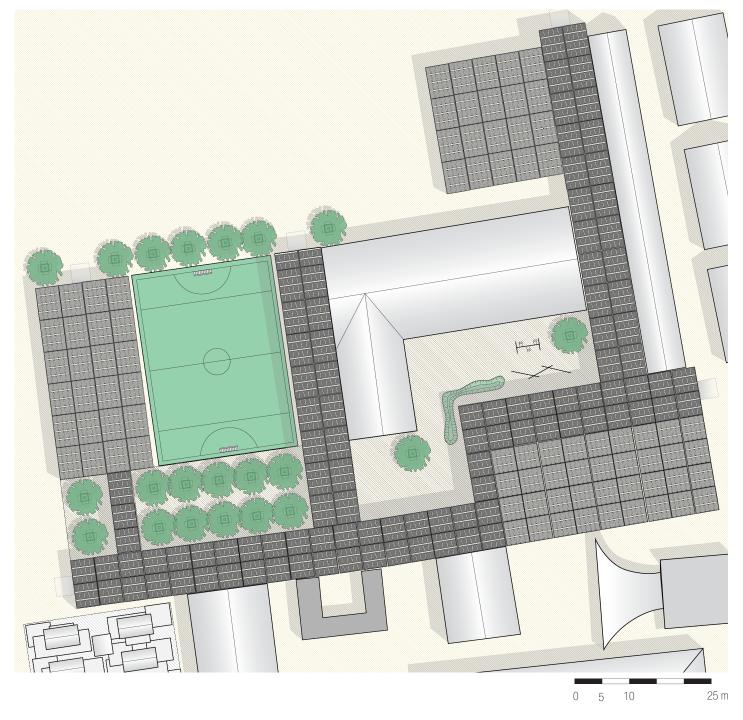
Informal shelter structures

Gasholder

Tree in water tank with fixed benches

PV-covered hall

PV-structure



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