
2 / Re-Territorialization

Genealogies:

Form / Operation / shape

“The existence of which we are most assured and which we know best is unquestionably our own, for every other object we have notions which may be considered external and superficial, whereas, of ourselves, our perception is internal and profound. What, then, do we find?”

Henri Bergson, 1944

“It is in this productive and active sense that ecology and creativity speak not of fixed and rigid realities but of movement, passage, genesis, and autonomy, of *propulsive life unfolding in time.*”

James Corner, Ecology and Landscape as agents of creativity, 1996

“Evolved rather than designed - within the hypermodern event-space of complex, sensitive, dynamical indeterminacy and change.... The design principle display a very clear orientation toward evolutionary, time based processes, dynamic geometric structurations - not structures per se, but forms that follow and fill the wake of concrete yet unpredeterminable events...”

Sanford Kwinter on Rem Koolhaas, 2015

The sentences all comes from a collection of essays in the book:
Projective Ecologies, Chris Reed and Nina Marie Lister, 2015

Open endedness / indeterminacy

On the right a section of the "instruction guide" that represent the part of the work which explore indeterminacy and open ended spatial configurations as a way to increase the inbuilt programmatic flexibility in the process of nature reintroduction.

As the genealogies exercise takes into considerations the socio-economic, climatic contingencies set by the scenarios, the visualization on the right set them together as the core work in the objective of *designing with time*.

o-pen-end-ed

adj.

1. Not restrained by definite limits, restrictions, or structure.
2. Allowing for or adaptable to change.

in-de-ter-mi-nate

adj.

1.
 - a. Not precisely determined, determinable, or established: a person of indeterminate age.
 - b. Not precisely fixed, as to extent, size, nature, or number: an indeterminate number of plant species in the jungle.
 - c. Lacking clarity or precision, as in meaning; vague: an indeterminate turn of phrase.
 - d. Not fixed or known in advance: an indeterminate future.
 - e. Not leading up to a definite result or ending: an indeterminate campaign.
2. Botany Not terminating in a flower and continuing to grow at the apex: an indeterminate inflorescence.
3. Mathematics Having more than one variable and an infinite number of solutions, such as the equation $5x^2 + 3y = 10$.

Designing with time: Exploring the open ended and indeterminate dimension of the project to add flexibility in coping with changing dynamics and the question of implementation.

Scenario exercise:

Exploring Landscape infrastructure matrix adaptation through multiple configurations

STEAM scenario

- Plan (LIM Adaptation)
- General considerations
- Values
- Strategies

BUSY scenario

- Plan (LIM Adaptation)
- General considerations
- Values
- Strategies

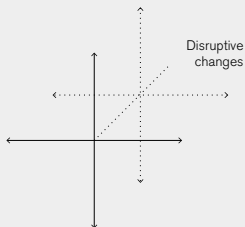
WARM scenario

- Plan (LIM Adaptation)
- General considerations
- Values
- Strategies

REST scenario

- Plan (LIM Adaptation)
- General considerations
- Values
- Strategies

DISRUPTION scenario

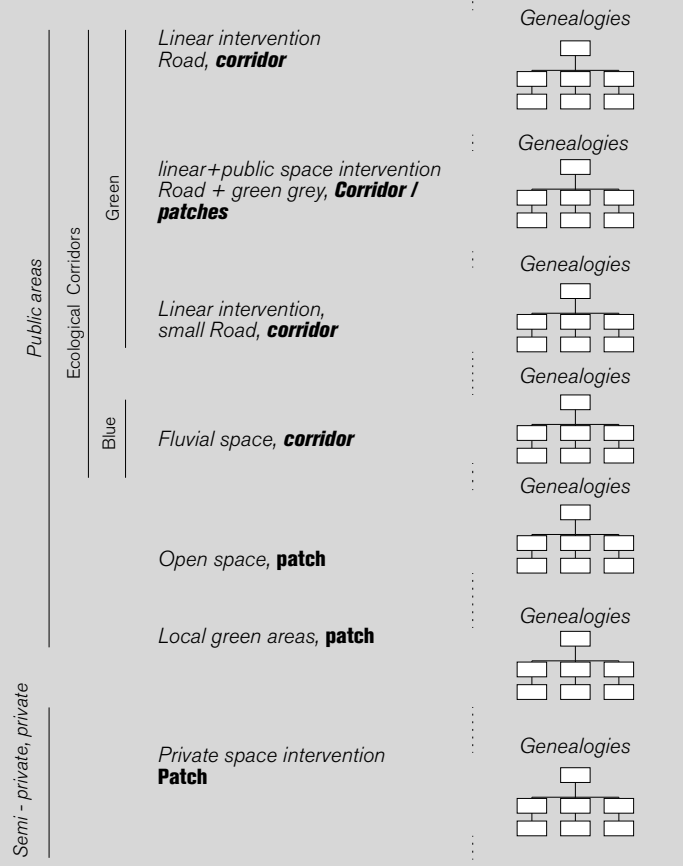


**From Matrix to spatial operations.
A working method to programm urban fabric transformations with g-b elements.
Form (spatial conditions) / operation (spatial operation) / shape (spatial adaptation)**

Finding Form

Landscape infrastructure Matrix Pattern (similar spatia condition in the Urban fabric) to retrofit

Projecting: Operation / shape
Operational gradients: Showing possibilities by different degrees of change: Addition and subtraction operations



Genealogies

From Meso to Nano scale.

The genealogies as a key component in the design process starts from the Meso scale by finding similar patterns of spatial conditions (Nano form), and then by applying a gradient of multiple possible spatial operations. Thus it explores open ended and indeterminate dimensions of transformations in time.

It makes visible, projects, anticipates in a flexible manner, the re-programming of nature in corridors and patches according to various contingencies.

Genealogies

Similar to taxonomies, genealogy is an exercise dealing with classification, a design process with the aim to explore indeterminacy and open endedness in complex socio-ecological systems through multiple spatial transformations.

Indeed it deals and cope with the temporal dimension. It wants to design and explore time.

Multiple Spatial operations ;

Flexible adaptation strategies for multiple futures.

Flexibility in governance (planning), i.e. implementation policies and flexibility in design (multiple options in time as plans and projects).

Genealogies becomes instrumental and operational in the manifestation of reterritorialization. Thus reintroducing nature, reactivating of ecosystem services.

How are the patterns defined:

The patterns (gene) are defined Based on the Landscape Infrastructure Matrix corridors - patches spatial conditions, i.e. synthesising parameters related to dimensioning, alignments and importance (Matrix structural elements and hierarchy)

Once patterns have been defined (genes), the exercise projects multiple options of spatial transformations according to degree of alteration and specific contingencies

Genealogies Projection declinations :

Corridors; Linear (Conduit), matrix (Filter), patch (Source)

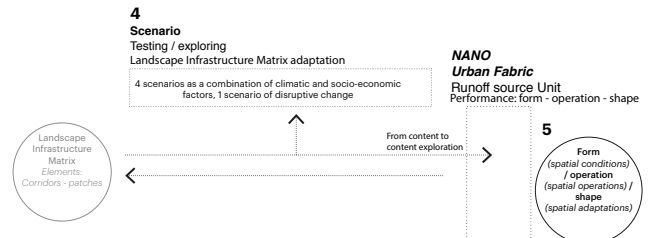
Patches; regional, local

Built up; GSI of different urban typologies

Eventually, genealogies are also the step in which the ideas and concept brought forward so far, i.e. re-territorialization and multiple synergistic infrastructures, starts to assume and take a spatial dimension.

As previously explained this has been done through a design process / imagination of "multiple landscape in transformation" which will ideally attune and adapt to the multiple configurations (contingencies/scenarios) that the future might hold and present.

Relation between genealogies and the broader process of the methodology



Re-introduction of nature in urban mega region, theoretical and spatial implications:

The Genealogies project is most of all a strategic and flexible modus of reprogramming and reintroducing nature in critical / heterogeneous and complex territories. The theoretical and spatial implication of such project (Nature reintroduction) are further visualized and disclosed in the next two pages.

How to read it :

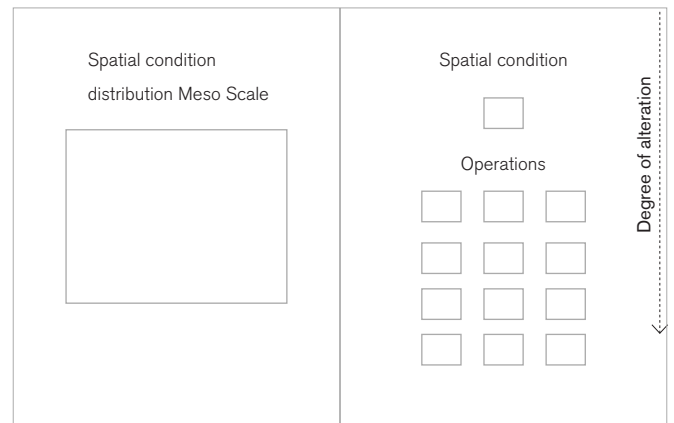
Two main operative actions are visualized throughout the genealogies (Next pages):

Addition (in red) and Subtraction (In violet).
 These operations are fully described (written) in the separate booklet of the genealogies.

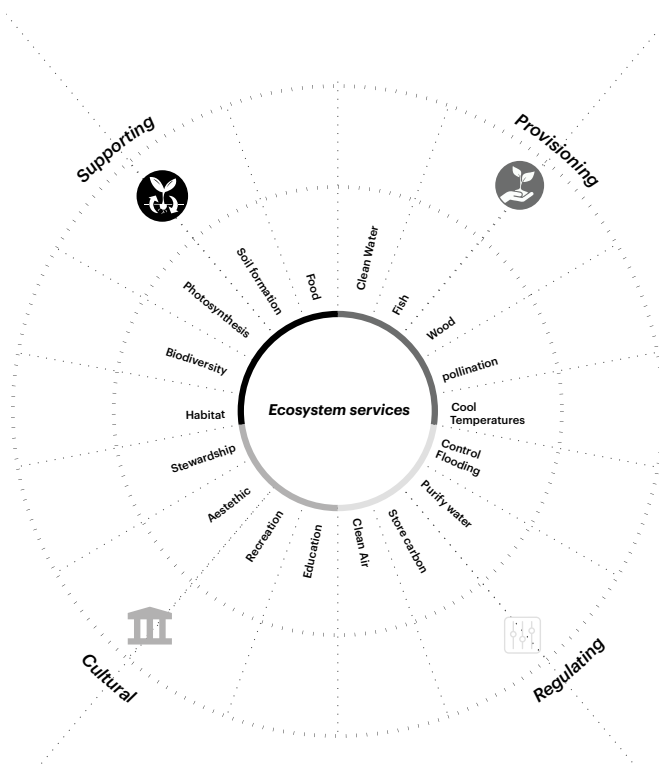
Operations

- - - Addition
- - - Subtraction

The Degree of alteration it's shown incrementally from top to bottom.



Ecosystem services diagramm



**Urban Landscape Infrastructure:
A theoretical drawing
operations - processes - dynamics**

The drawing shows the hybridization between biophysical system and the mainstream current elements of water management.

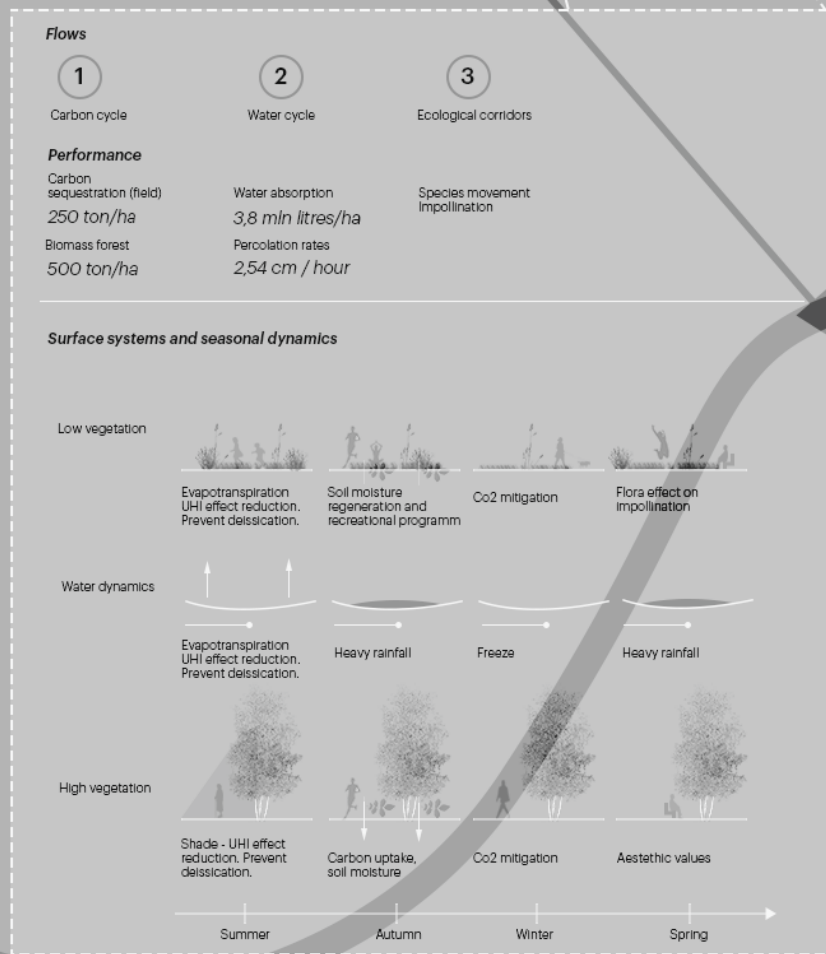
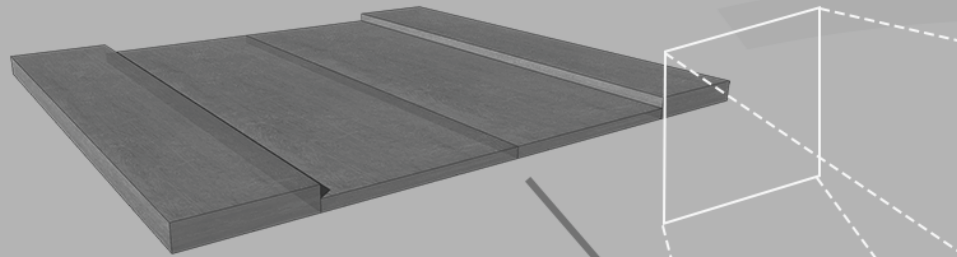
**A new software / operational system
for urban water management.**

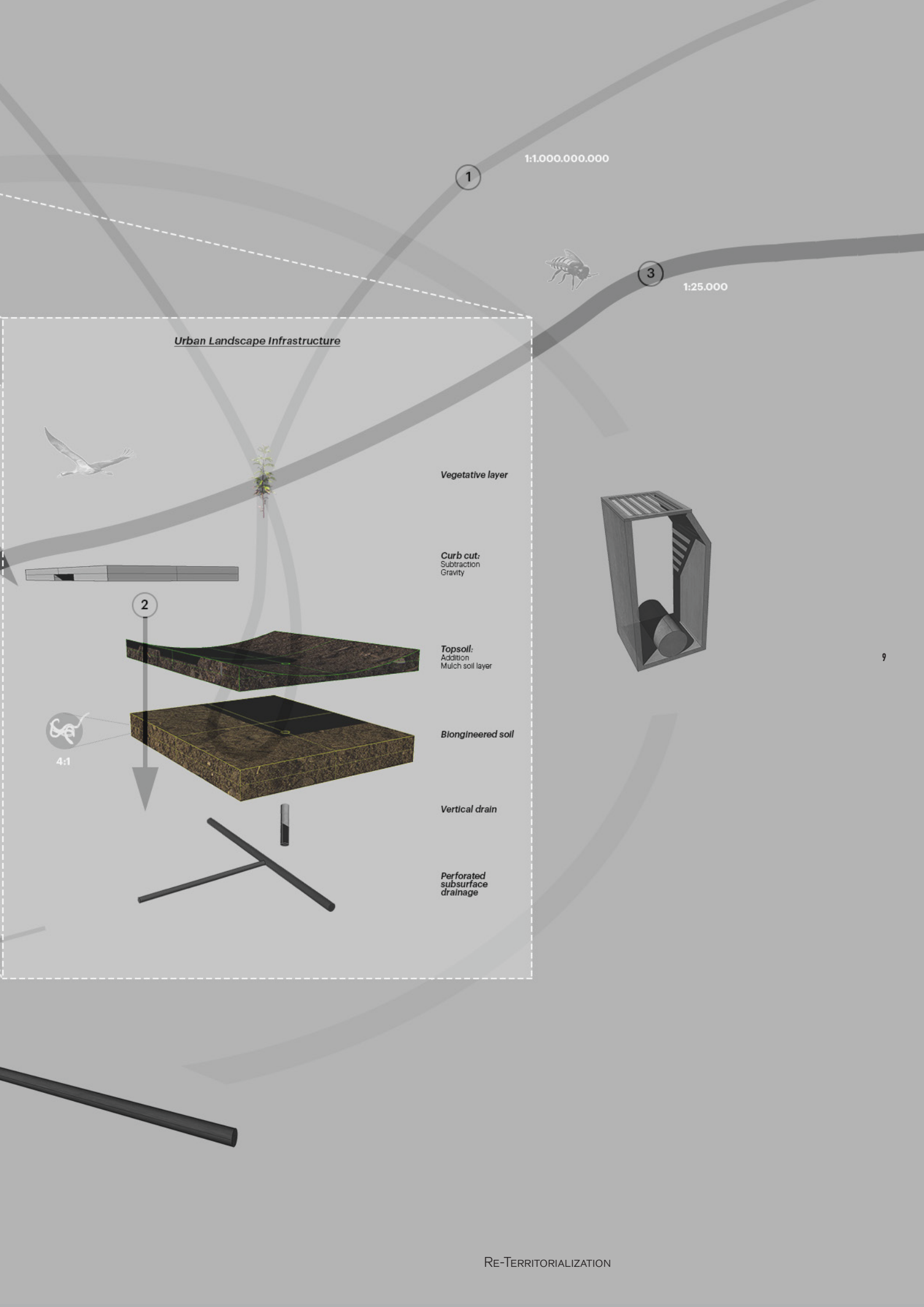
Re-activating Biophysical functions.

**Reintroduction of landscape as a
process of exploring potential spatial
- temporal dynamics.**

“Landscape becomes the operative platform of human existence; where landscape exists, so does infrastructure. Landscape is the medium through which culture, society, and the individual interact with biophysical, meteorological, and geological fluctuation or stasis. Landscape is a conduit, an exaggerator, a proliferator, an inhibitor, an enabler; herein lies its timeless operative capacity”.

From Dan Carlson in Scenario Journal: The humanity of infrastructure: landscape as operative ground, September 2013





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1

1:25.000

3

Urban Landscape Infrastructure

Vegetative layer

Curb cut:
Subtraction
Gravity

Topsoil:
Addition
Mulch soil layer

Biengineered soil

Vertical drain

Perforated subsurface drainage

2

















4:1

Analysis of similar spatial condition in the local and regional corridors in the landscape infrastructure matrix





Legend

- | | | | |
|---|--|---|---|
|  | linear+public space intervention road + green grey, Corridor and Patches |  | Open space, Patch |
|  | Linear intervention, road, Corridor |  | Local green areas, Patch : Sports field |
|  | Linear intervention, small road, Corridor |  | Local green areas, Patch : Public areas |
|  | Fluvial space, Corridor : Hard edge |  | Private space intervention, Patch : Continuous urban fabric |
|  | Fluvial space, Corridor : Soft edge |  | Private space intervention, Patch : Industries |
|  | Fluvial space, Corridor : Urbanized edge |  | Private space intervention, Patch : Discontinuous urban fabric |
|  | Fluvial space, Corridor : Fenced |  | Private space intervention, Patch : Diffuse urban fabric |
| | |  | Private space intervention, Patch : Dispersed urban fabric |
| | |  | Municipal Green areas influence |

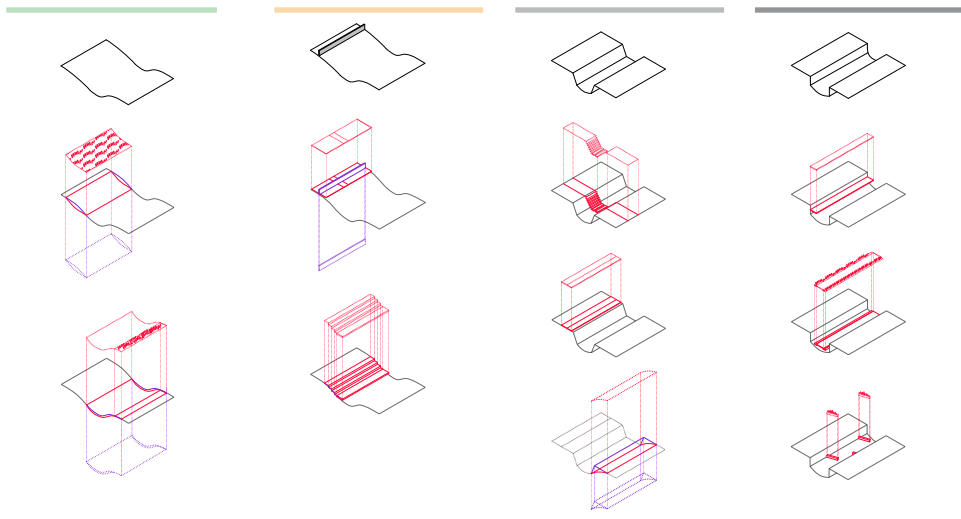
Fluvial space (corridor)

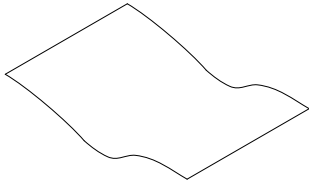
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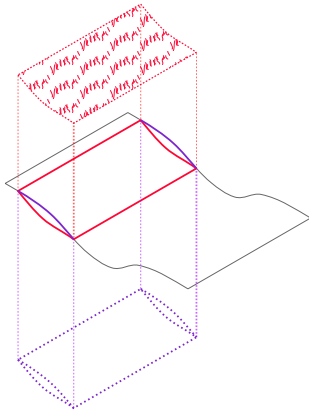
- Soft edges
- Fenced
- Hard edge
- Urbanized edge

Genealogies





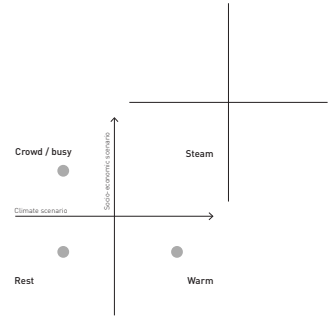
Soft edge



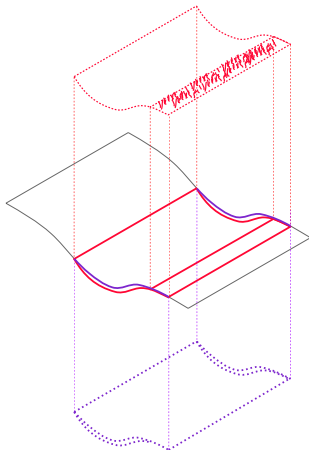
Re-vegetation strategy



landworks



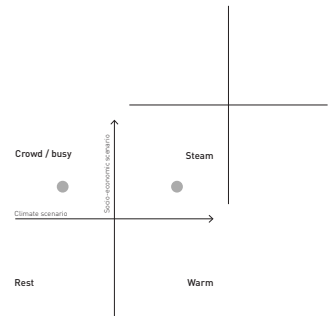
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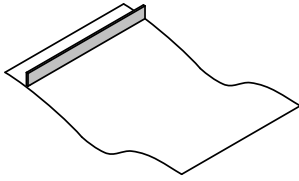


Landscape restoration and re-vegetation strategy

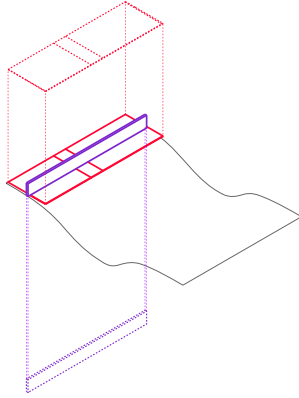


Water bed cleaning

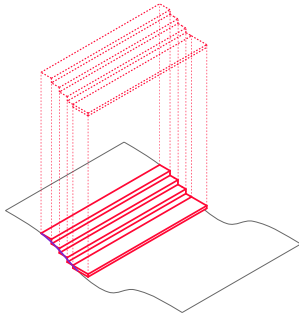




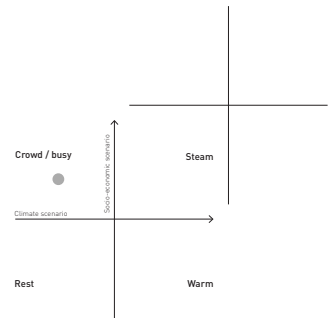
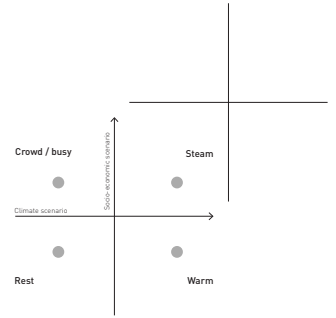
Fenced

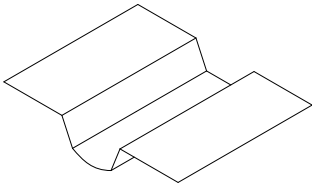


trail and permeability

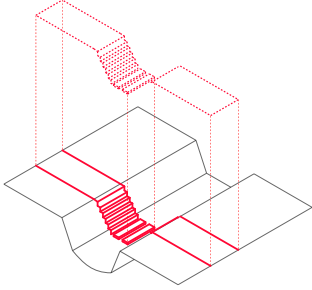


Public space

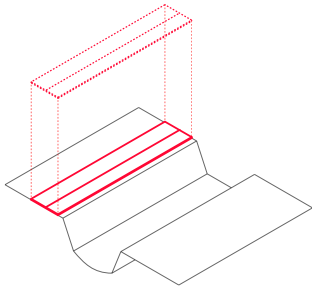
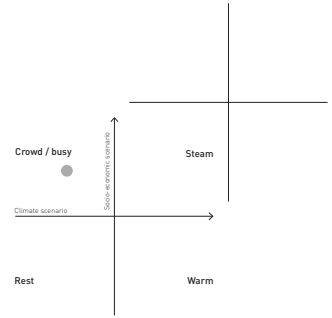




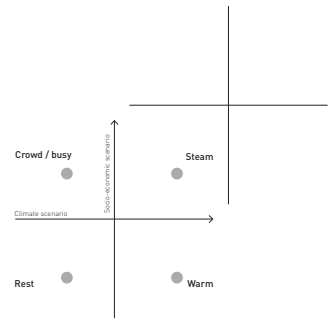
Hard edge



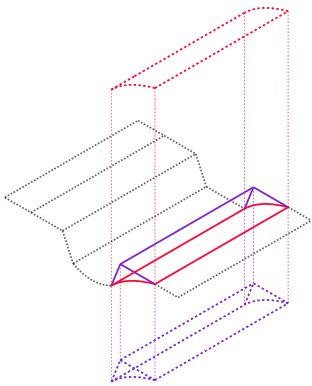
Physical accessibility permeability



Trail based mobility



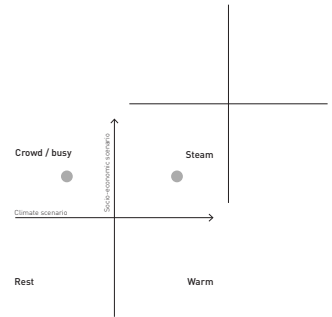
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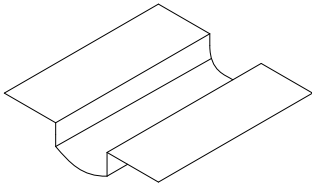


Landscape design

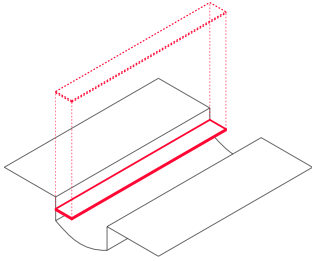


Lower Enbankment

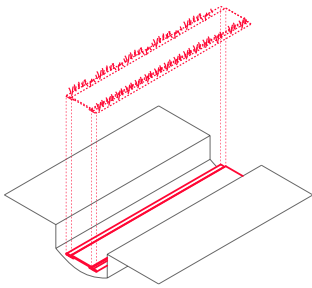
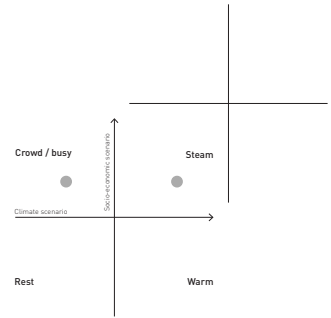




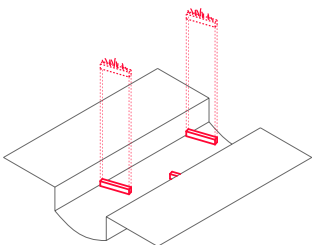
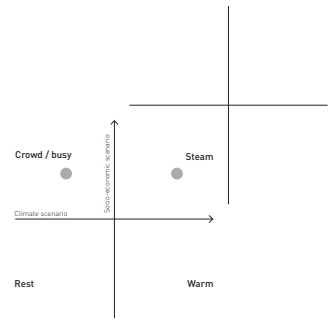
Hard vertical edge



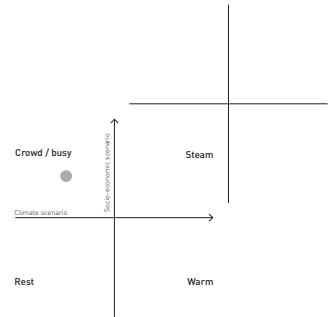
Physical (linear) connectivity



linear infrastructure + water cleaning vegetation



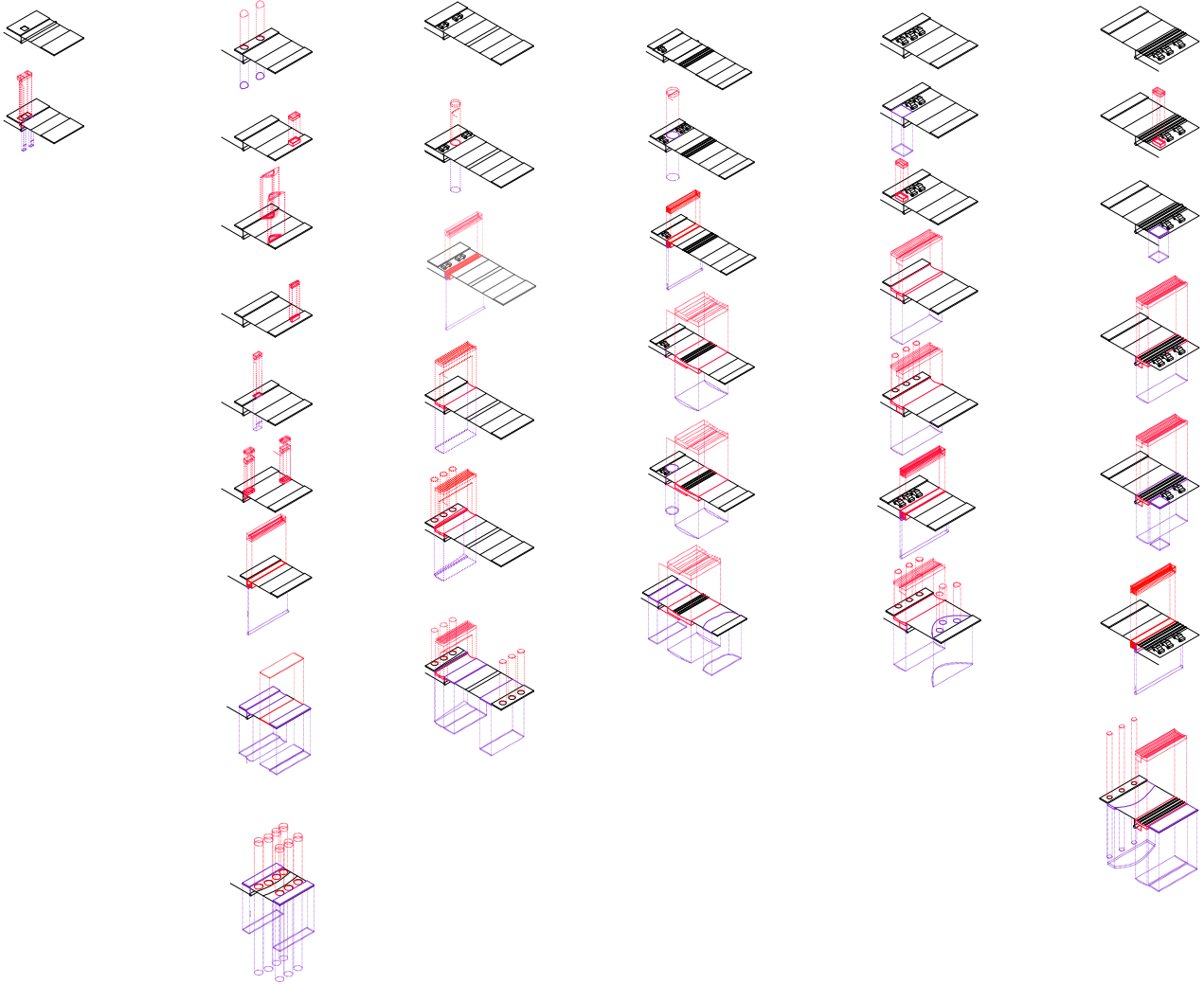
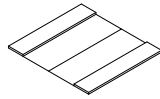
Water cleaning vegetation

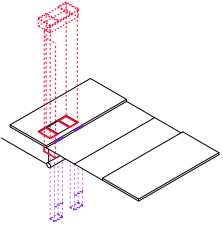
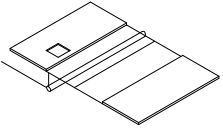


Linear intervention, road (corridor)



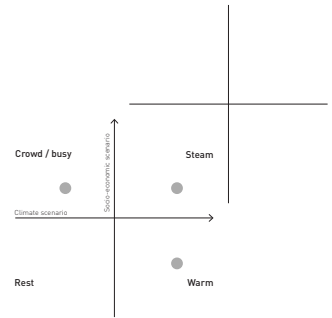
Genealogies corridor 1

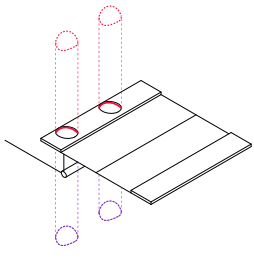




Soil layers
subsurface drainage

Concrete subtraction
curb cut

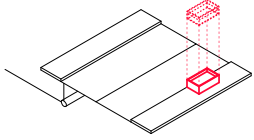




Soil Addition



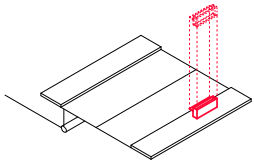
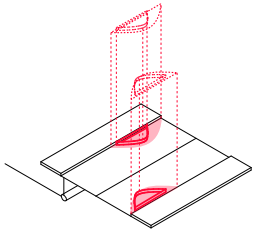
Concrete subtraction



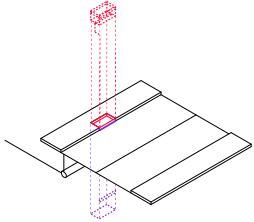
pot soil addition



Traffic slower soil addition



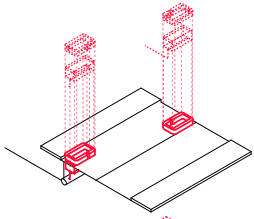
Bench



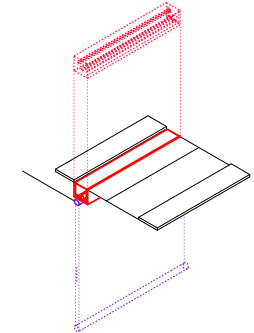
Soil layers subsurface drainage



Concrete subtraction

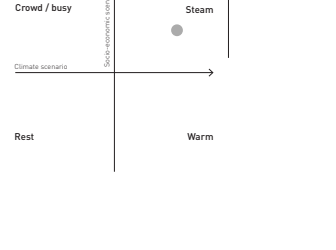
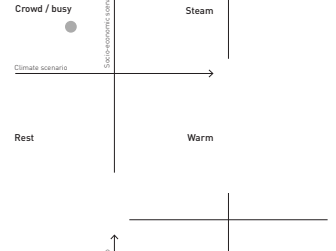
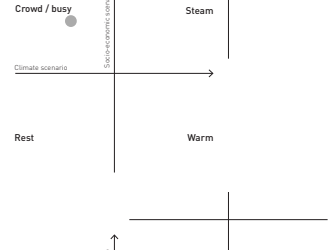
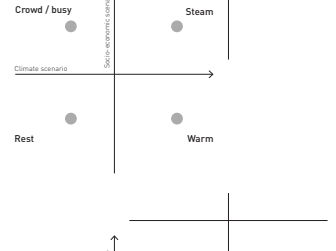
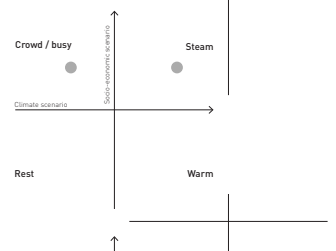
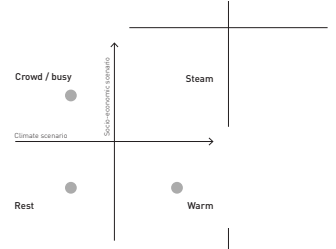
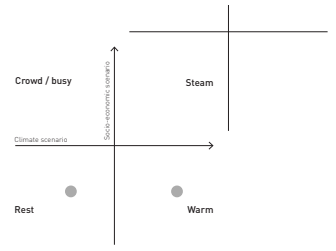


traffic slower Soil layers subsurface drainage

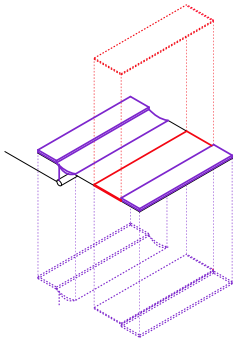


Multi Utility Tunnel

De-paving Curbcut



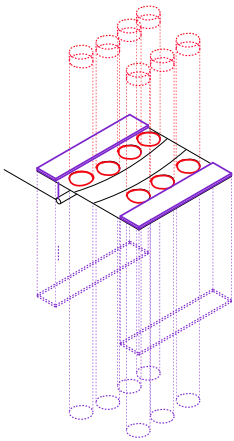
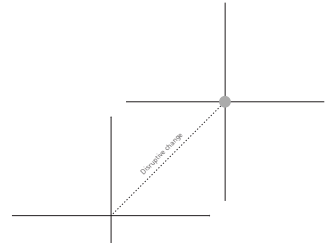
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Soil layers
subsurface drainage



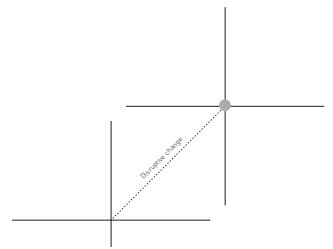
Subtraction of concrete

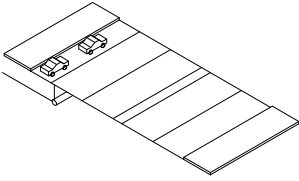


Soil layers
subsurface drainage

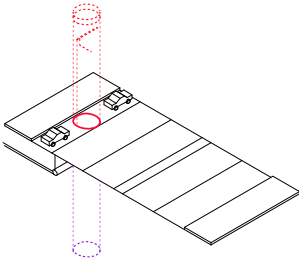
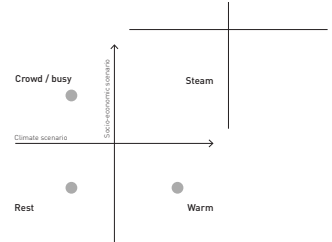


Subtraction of concrete

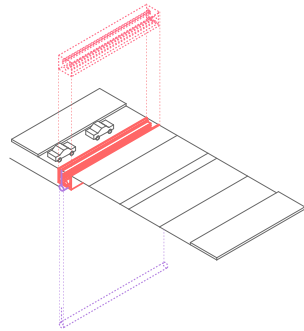




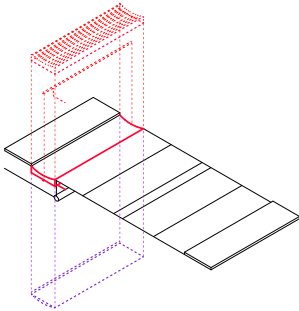
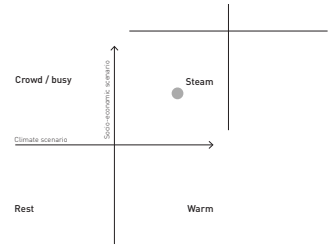
Soil layers
subsurface drainage



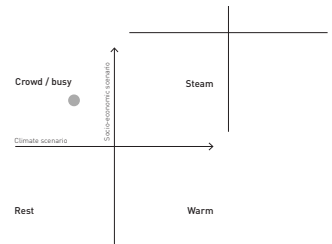
Subtraction of concrete



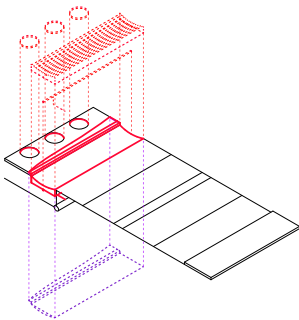
Multi Utility Tunnel



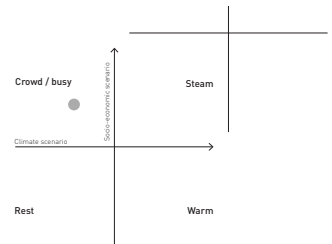
Soil layers
subsurface drainage



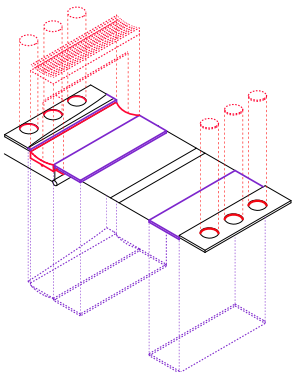
Subtraction of concrete



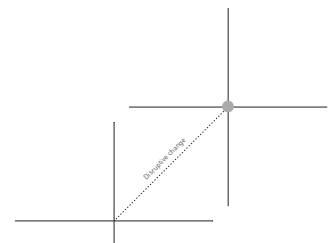
Soil layers
subsurface drainage
Re-vegetation



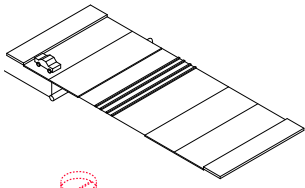
Subtraction of concrete



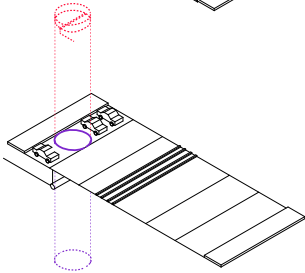
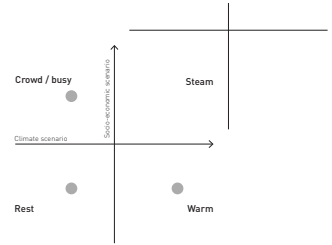
Soil layers
subsurface drainage
Re-vegetation



Subtraction of concrete

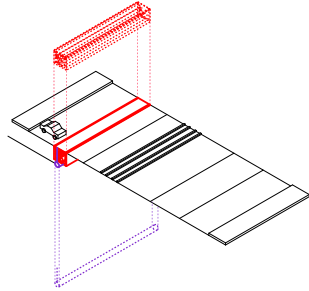


Soil Addition

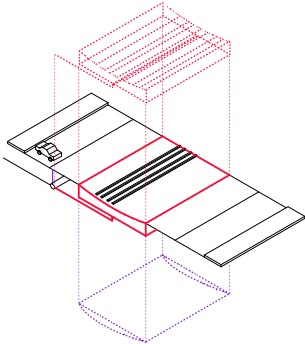
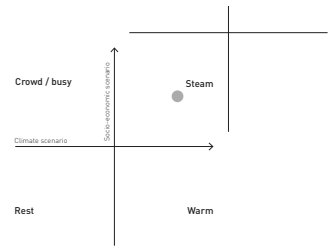


Concrete subtraction

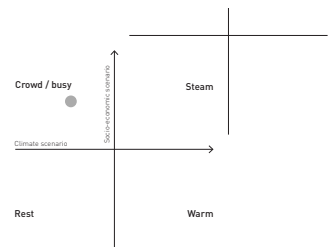
Multi Utility Tunnel



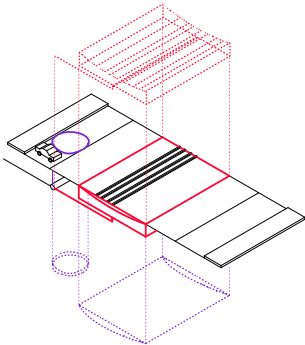
Old pipe



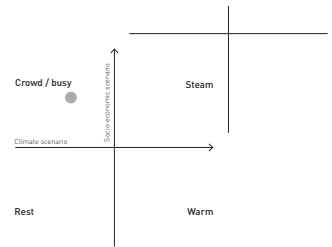
soil layers
subsurface drainage



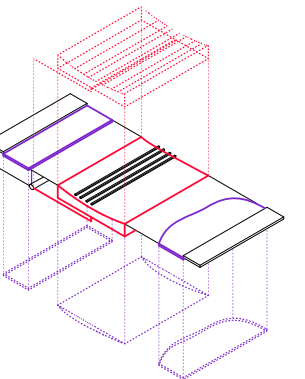
curbcut
concrete subtraction



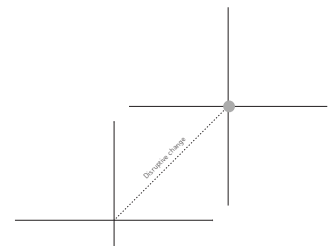
Soil layers
subsurface drainage



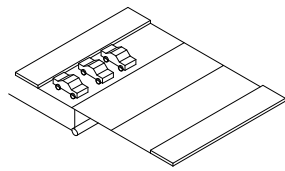
curbcut
Concrete subtraction



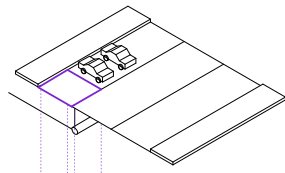
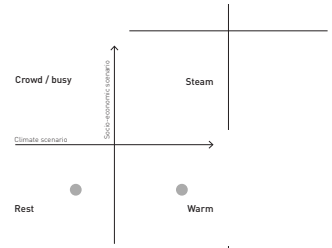
Soil layers
subsurface drainage



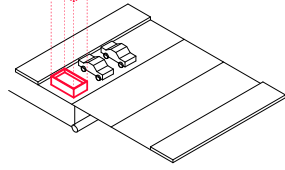
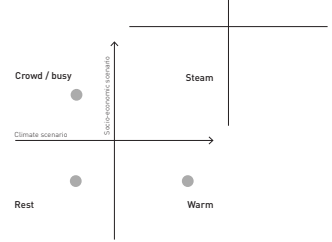
Curbcut
concrete subtraction



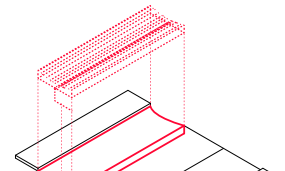
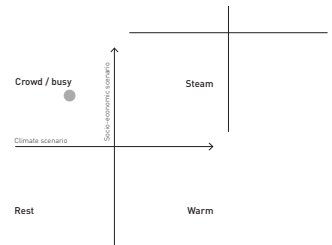
concrete subtraction



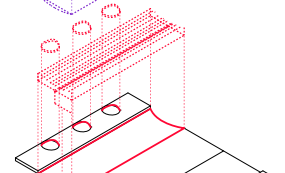
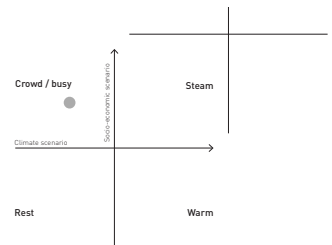
soil layer
equipment



soil layers
subsurface drainage

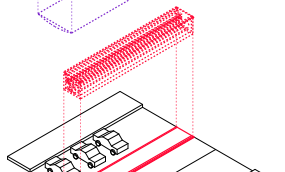


concrete subtraction

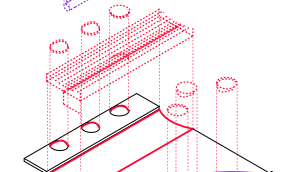
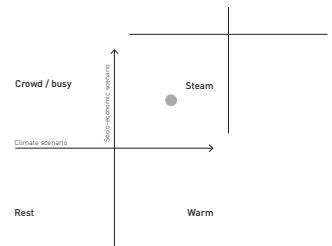


soil layers
subsurface drainage

concrete subtraction

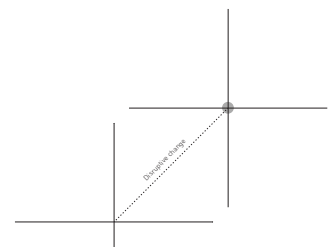


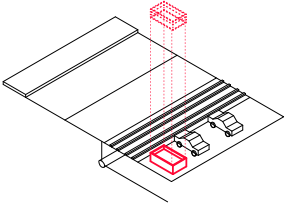
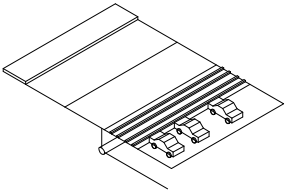
Multi Utility Tunnel



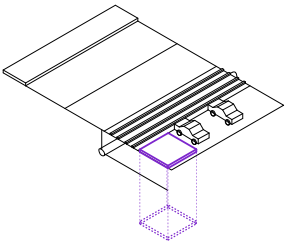
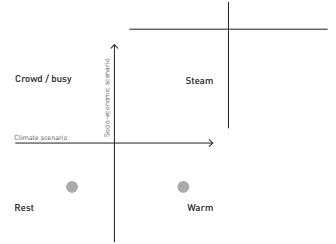
traffic claming
Soil layers
subsurface drainage

concrete subtraction

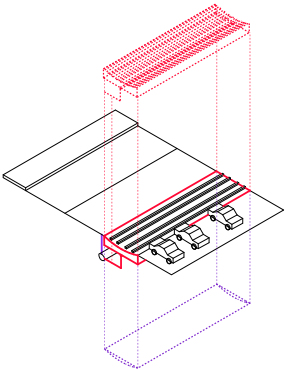
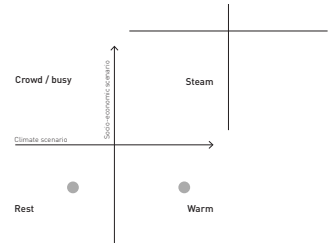




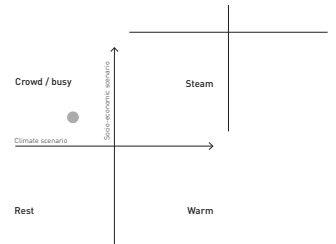
Soil layer equipment



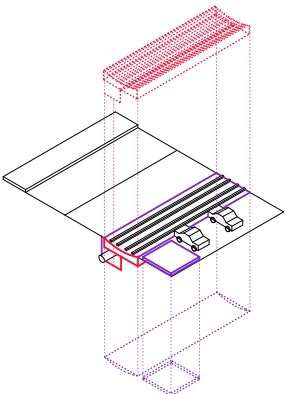
Concrete subtraction



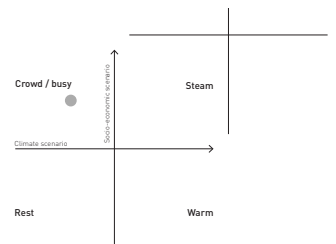
Soil layers subsurface drainage



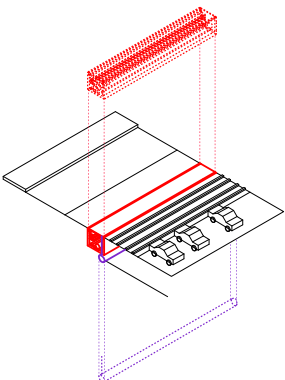
concrete subtraction



Soil layers subsurface drainage

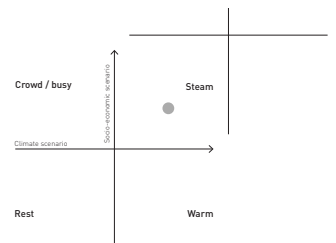


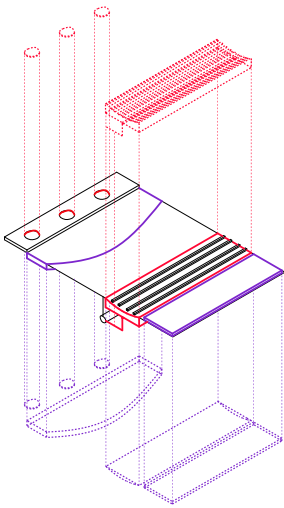
Concrete subtraction



Multi Utility Tunnel

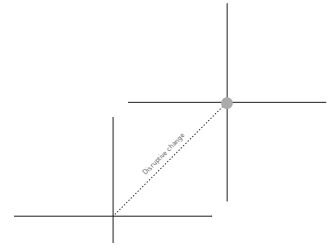
old pipe





traffic slower
Soil layers
subsurface drainage

curbcut
concrete subtraction

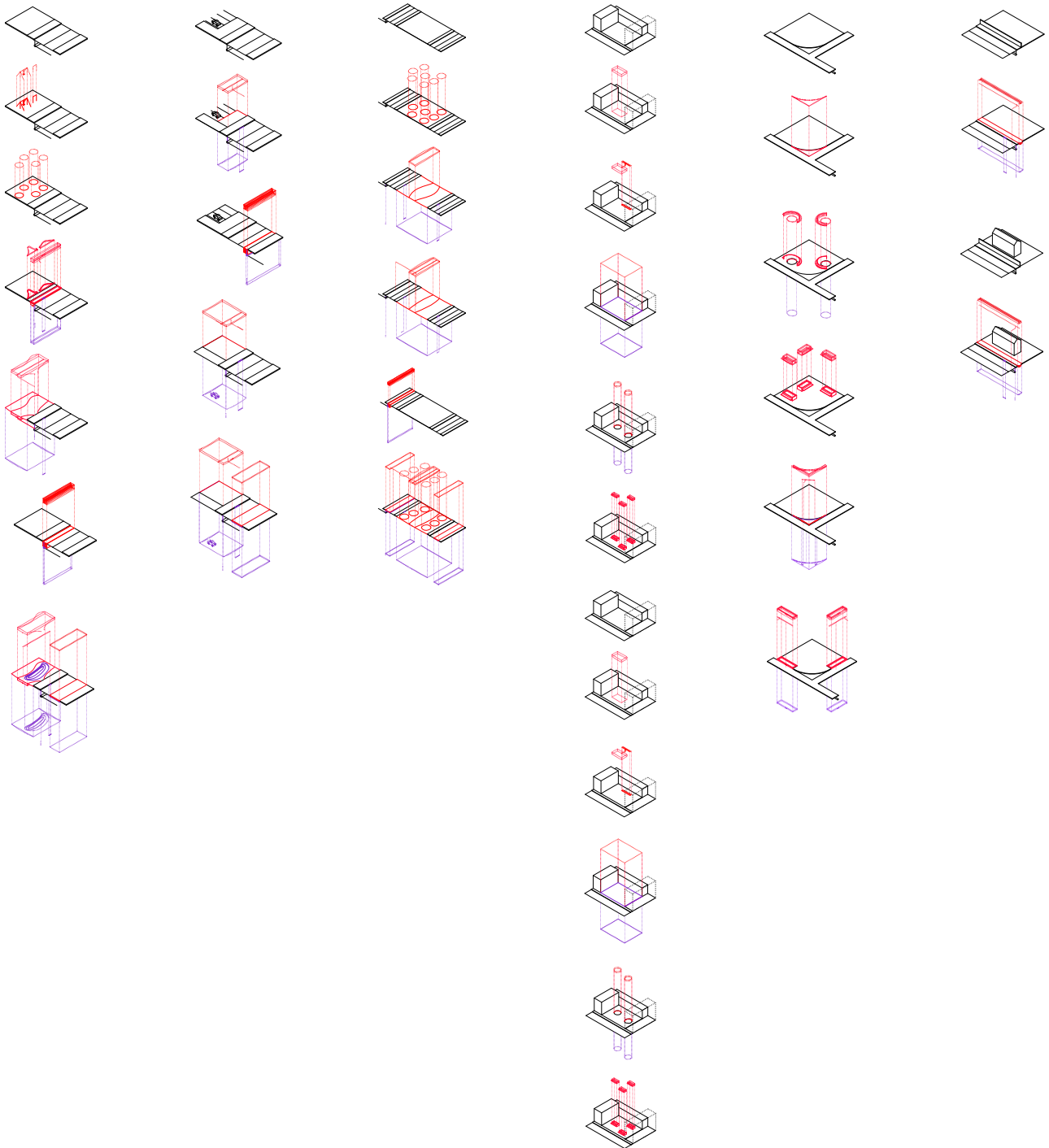
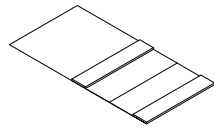


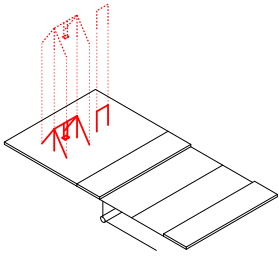
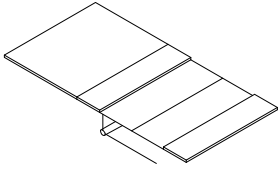
A

Linear + public space intervention, road (corridor + patches)

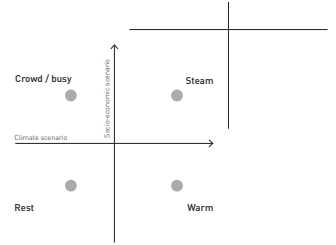


Genealogies corridor 2

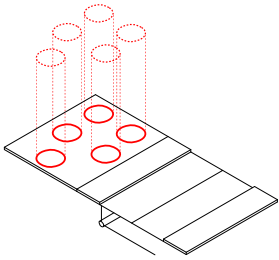




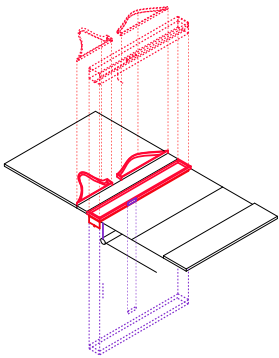
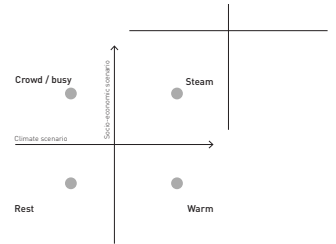
Soil Addition



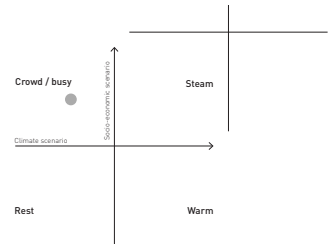
Concrete subtraction



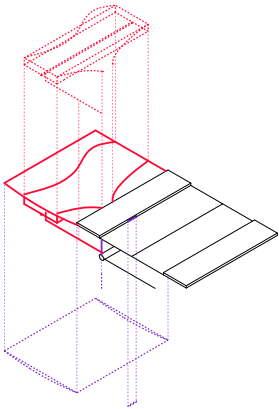
Re-vegetation



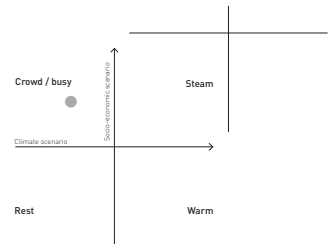
soil layers
subsurface drainage
re-vegetation



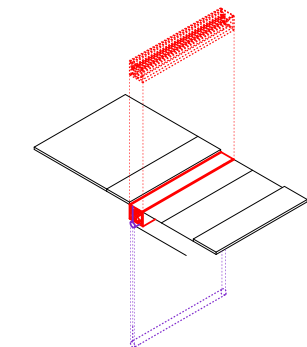
curbcut
Concrete subtraction



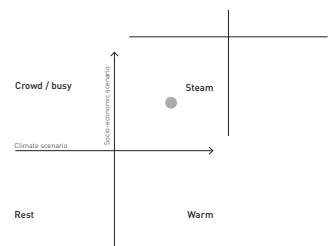
soil layers
subsurface drainage



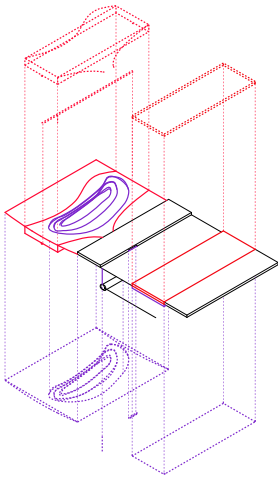
curbcut
Concrete subtraction



Multi Utility Tunnel



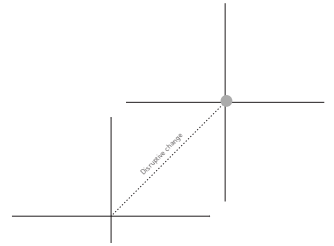
old pipe

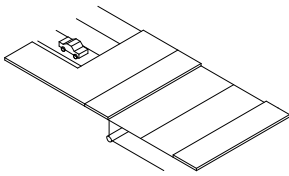


Soil layers
subsurface drainage

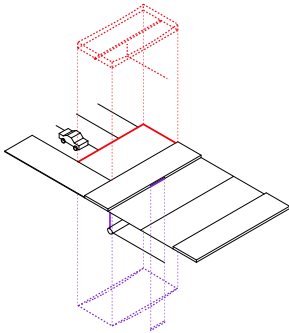
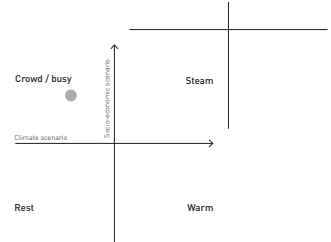


Curbcut
concrete subtraction

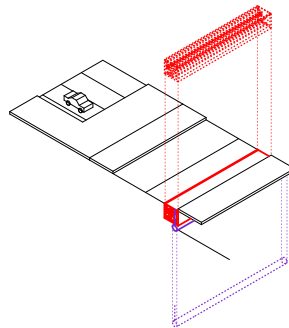




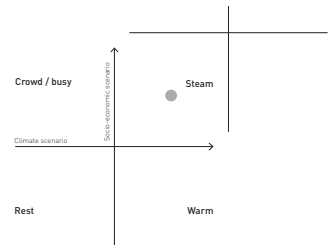
Soil layers
subsurface drainage



curb cut
Concrete subtraction

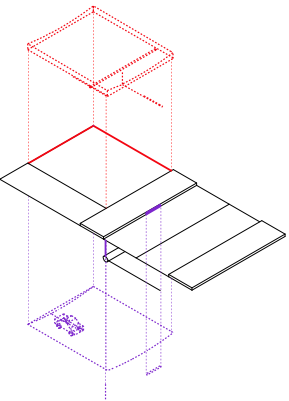


Multi Utility Tunnel

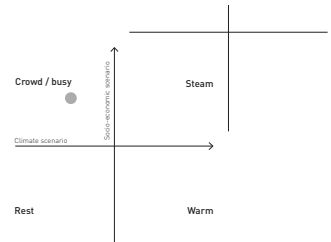


old pipe

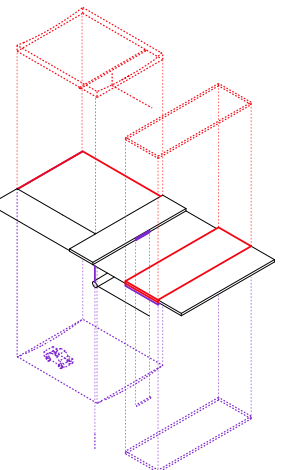
32



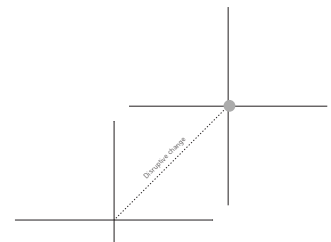
Soil layers
subsurface drainage



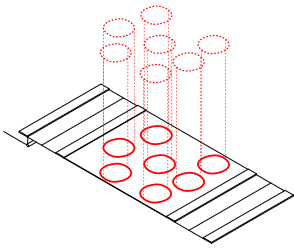
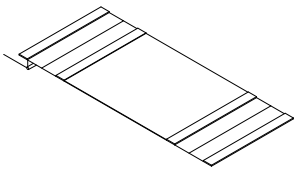
curb cut
Concrete subtraction



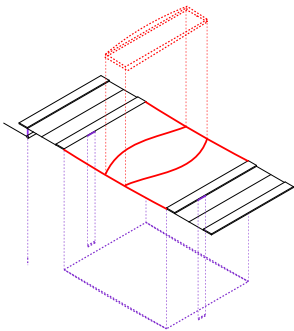
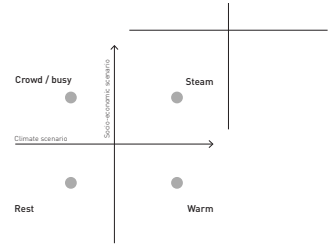
Soil layers
subsurface drainage



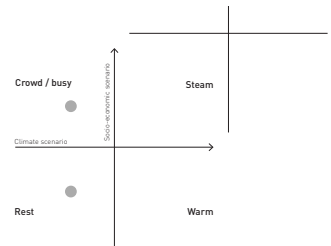
curb cut
Concrete subtraction



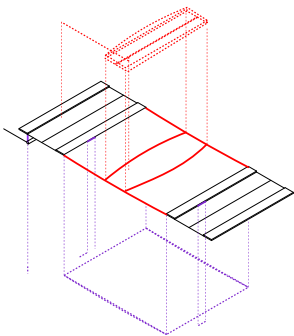
revegetation



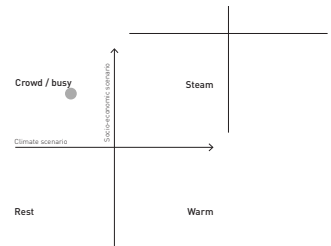
Soil layer



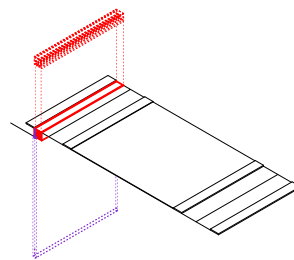
curbcut
Concrete subtraction



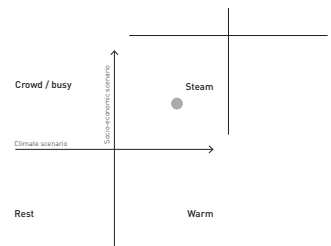
Soil layers
subsurface drainage



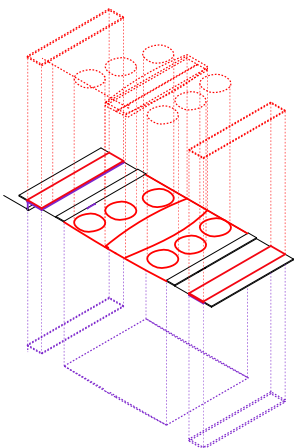
curbcut
Concrete subtraction



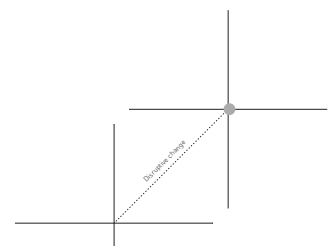
Multi Utility Tunnel



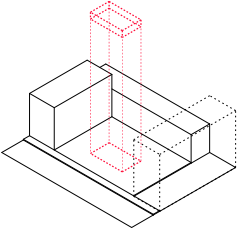
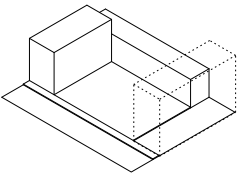
old pipe



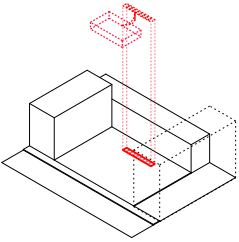
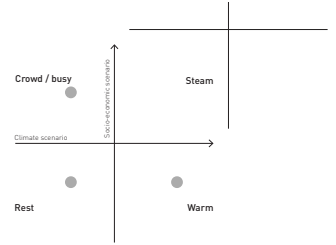
soil layers
subsurface drainage



curbcut
concrete subtraction

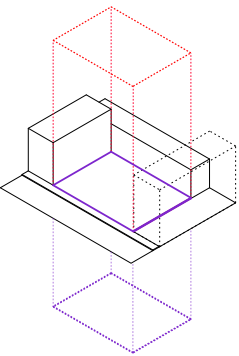
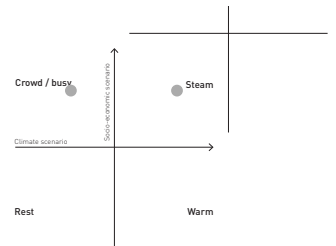


soil layer equipment



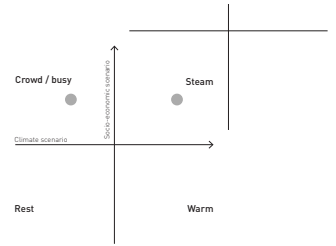
underground water tank
subsurface drainage

concrete subtraction

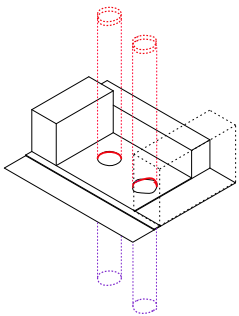


permeable pavement

concrete subtraction

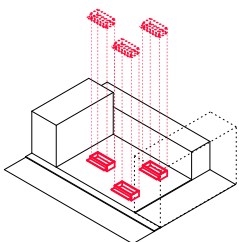
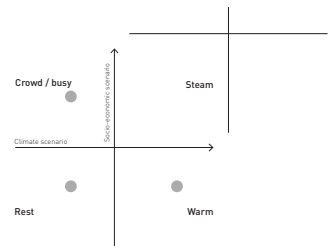


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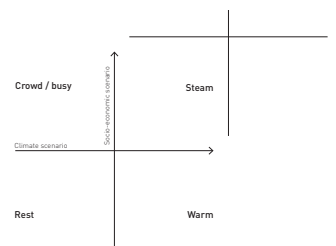


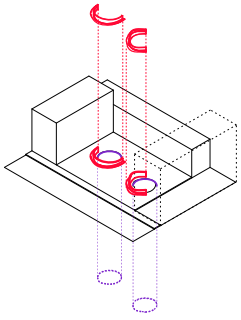
Soil layer re-vegetation

Concrete subtraction



Soil layer equipment

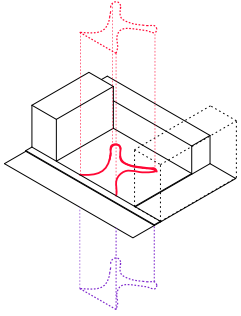
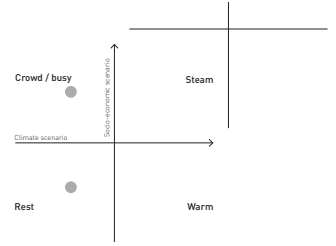




soil layer
equipment



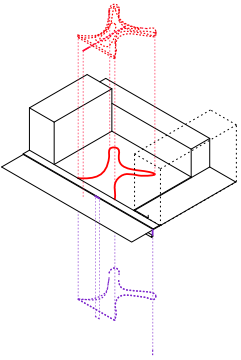
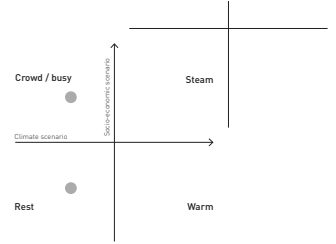
Concrete subtraction



soil layer



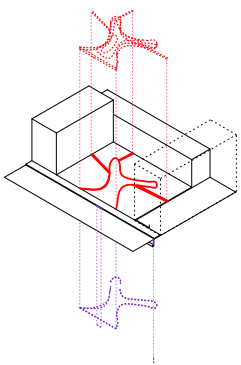
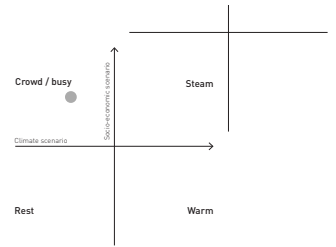
Concrete subtraction



soil layers
subsurface drainage



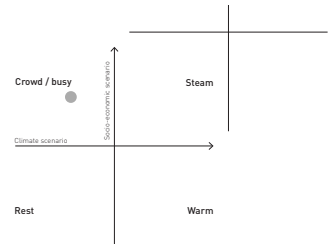
curbcut
Concrete subtraction

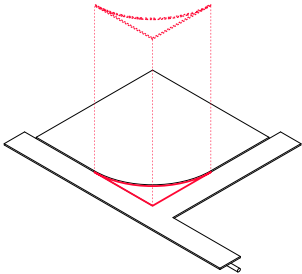
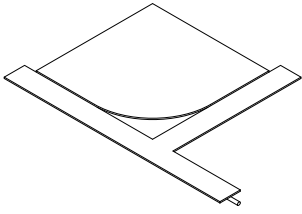


soil layers
subsurface drainage
surface drainage

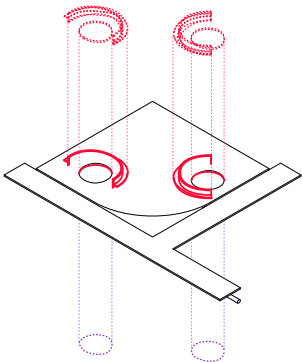
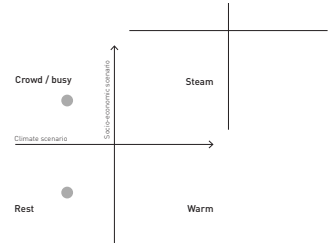


curbcut
Concrete subtraction

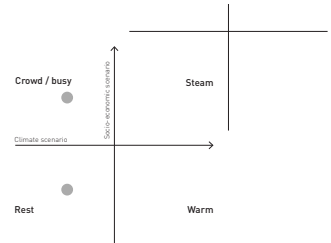




public space extension

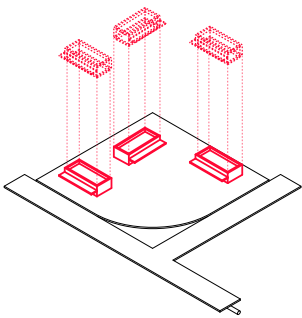


Soil layer equipment

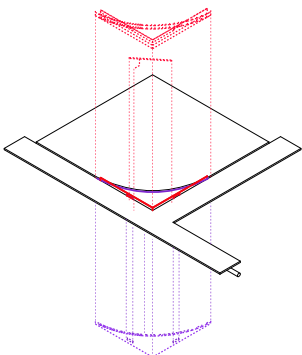
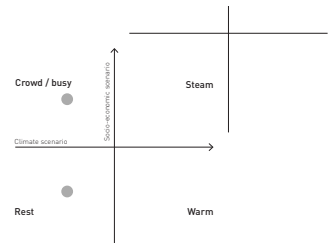


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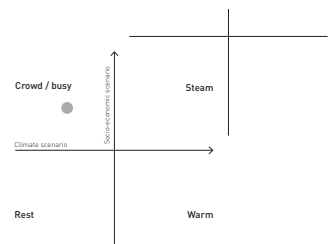
Concrete subtraction



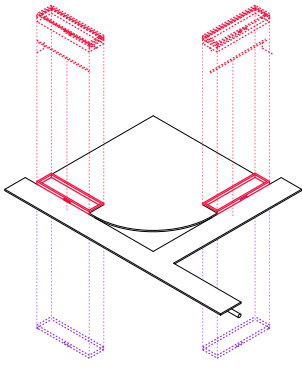
Soil layer equipment



Soil layers subsurface drainage



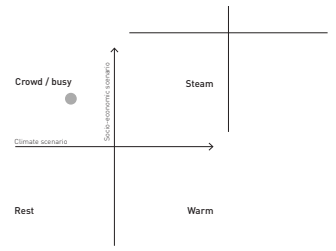
Concrete subtraction

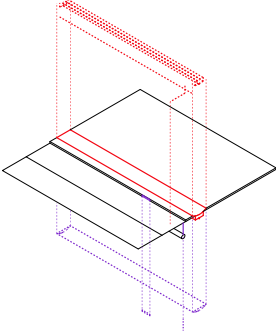
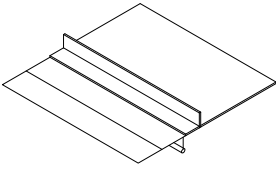


soil layers
subsurface drainage



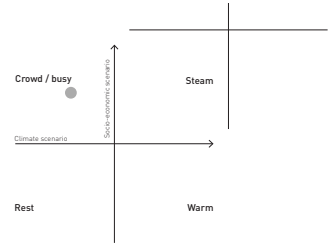
Concrete subtraction

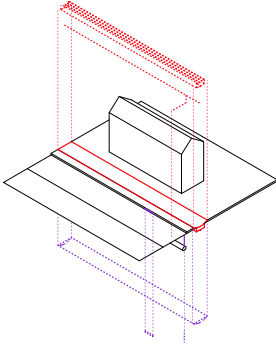
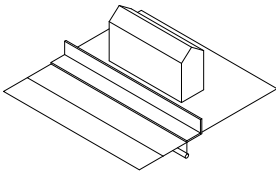




soil layers
subsurface drainage

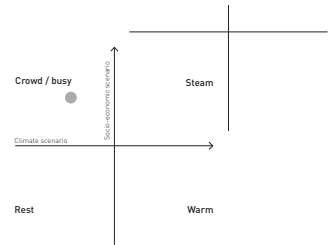
de-fencing
curbcut
Concrete subtraction





soil layers
subsurface drainage

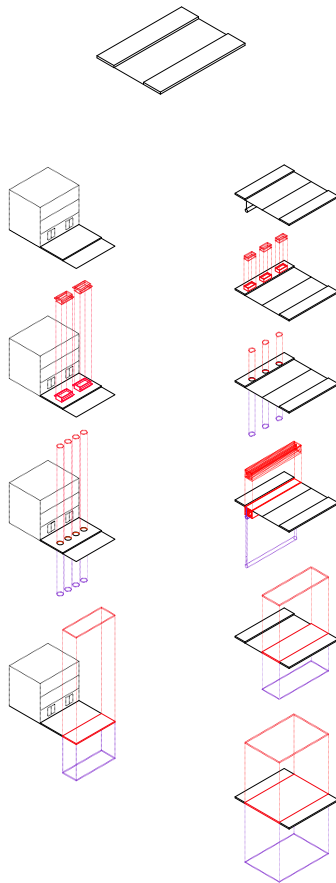
de-fencing
curbcut
Concrete subtraction

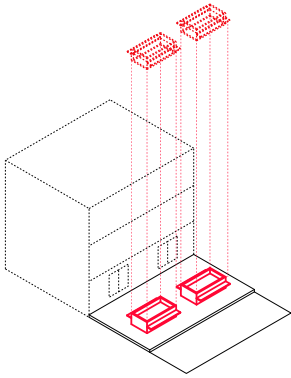
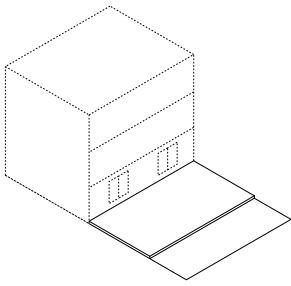


Linear intervention, small road (corridor)

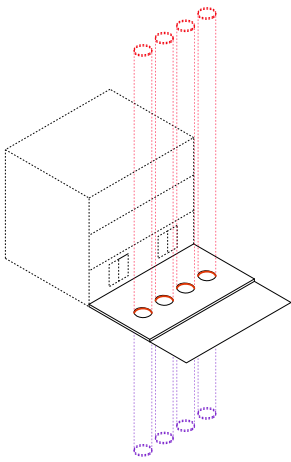
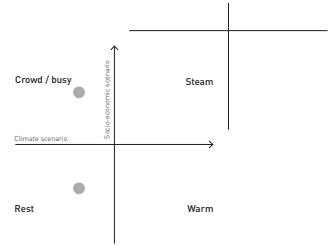


Genealogies corridors 3

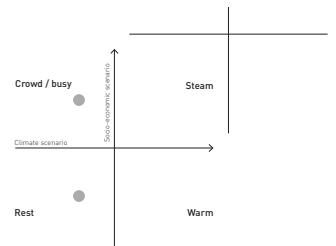




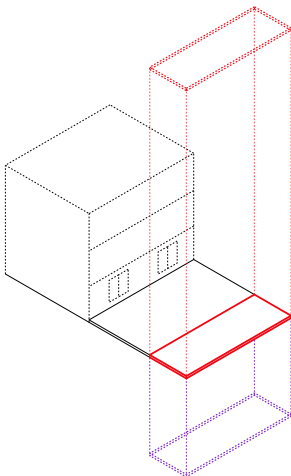
soil layer
equipment



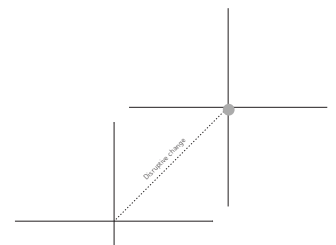
soil layer



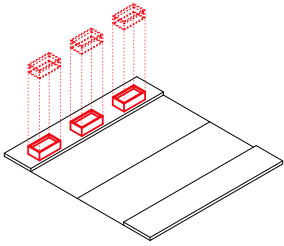
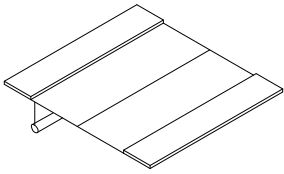
concrete subtraction



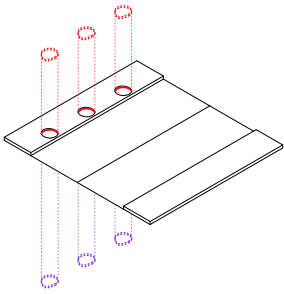
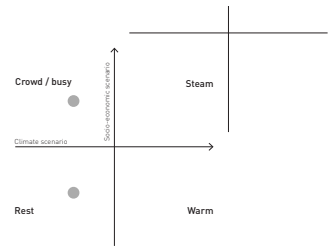
soil layer



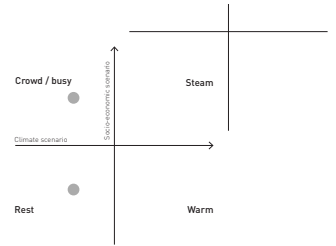
concrete subtraction



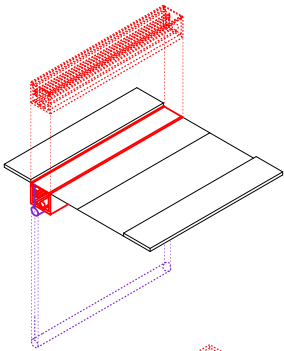
soil layer
equipment



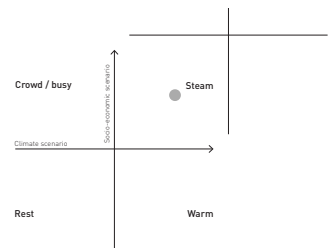
soil layer



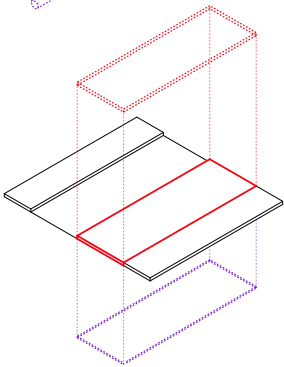
concrete subtraction



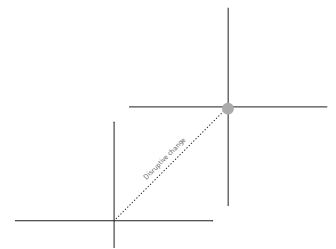
Multi Utility Tunnel



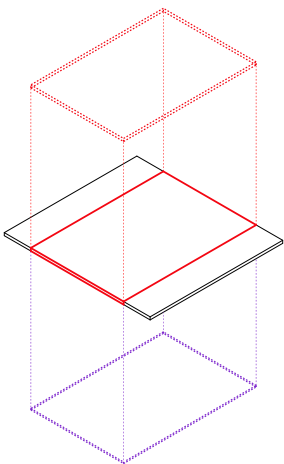
old pipe



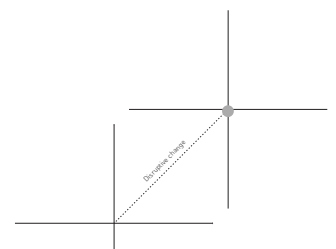
soil layer



Concrete subtraction



soil layer

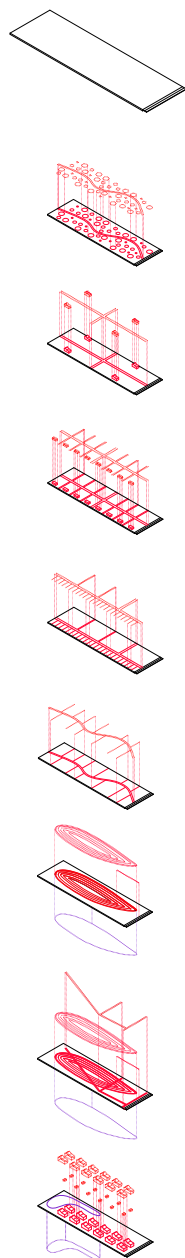


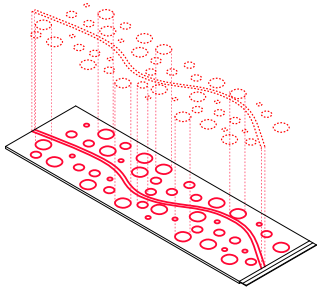
Concrete subtraction

Regional open space, Patch

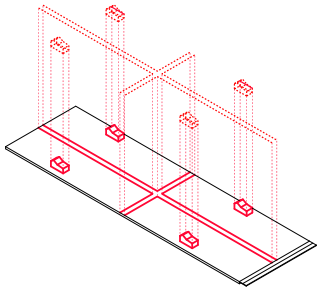
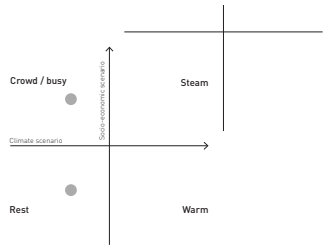


Genealogies open space

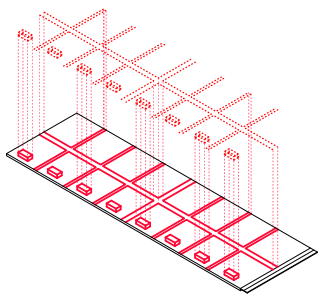
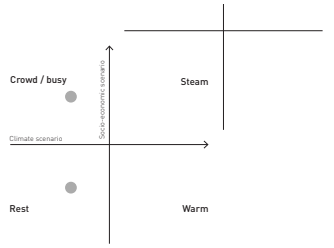




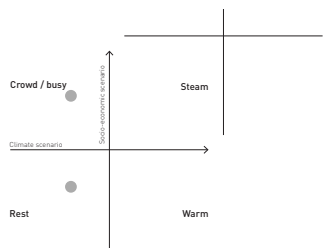
path re-vegetation



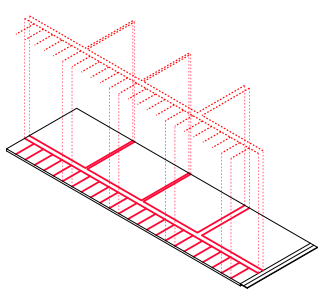
re-parcelization farmshed



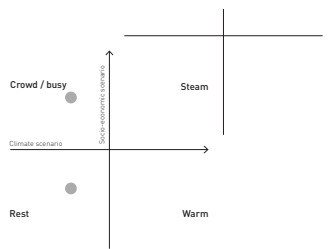
re-parcelization shed

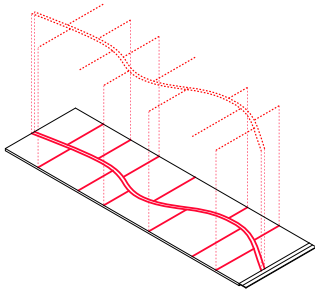


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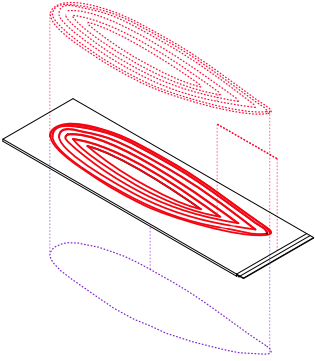
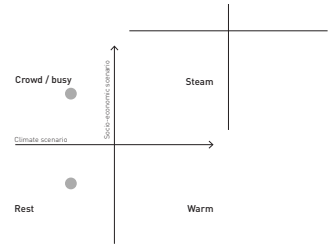


multiple re-parcelization

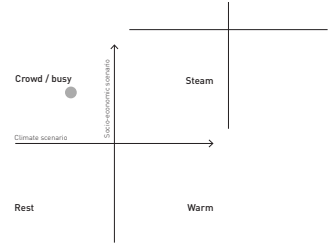




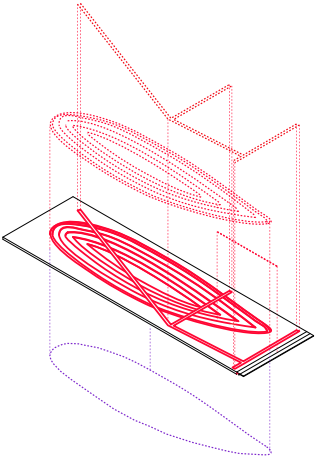
path re-parcelization



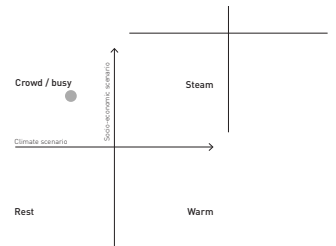
pipe redirection for grey water treatment



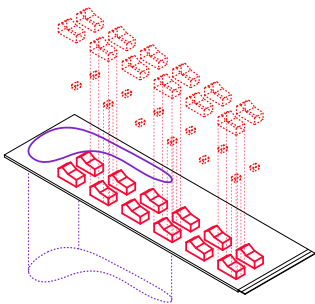
soil subtraction



path pipe redirection for grey water treatment

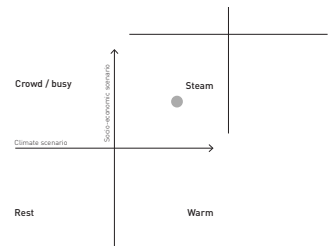


soil subtraction

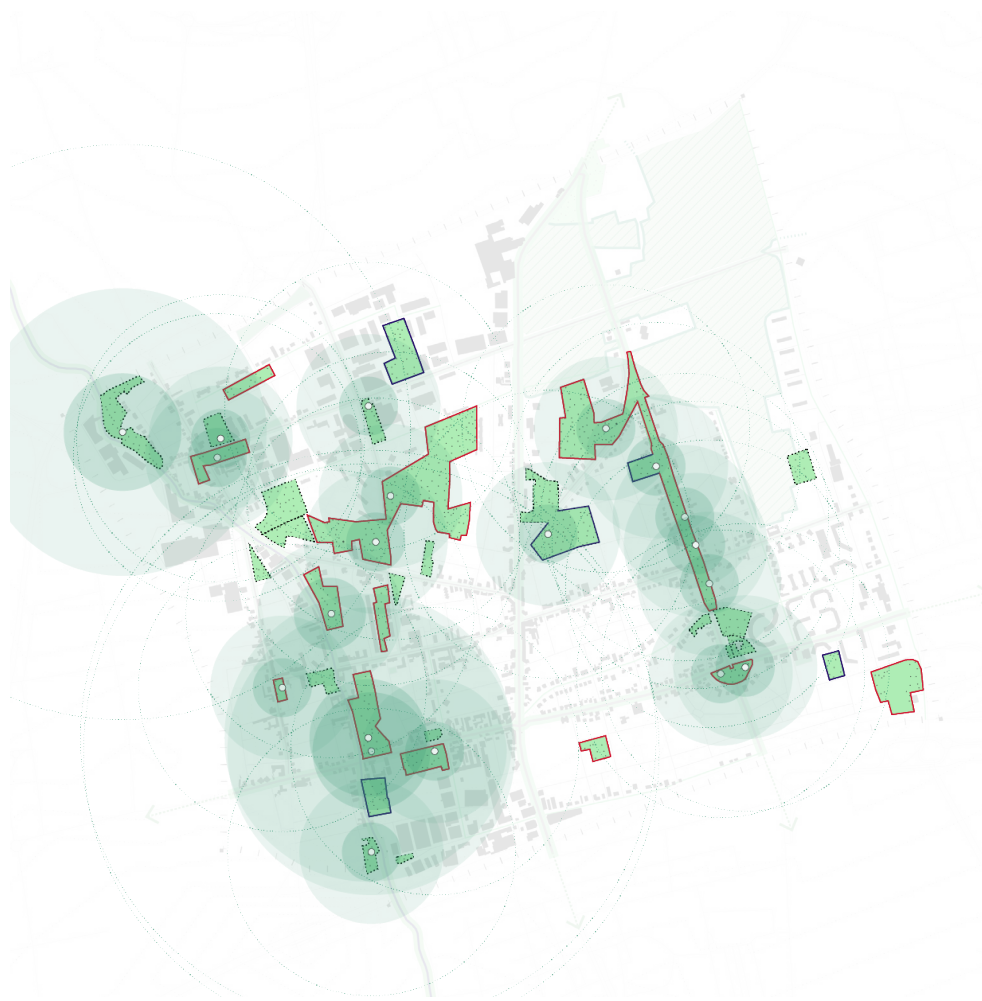


urbanization of the countryside infrastructural decentralization

soil subtraction

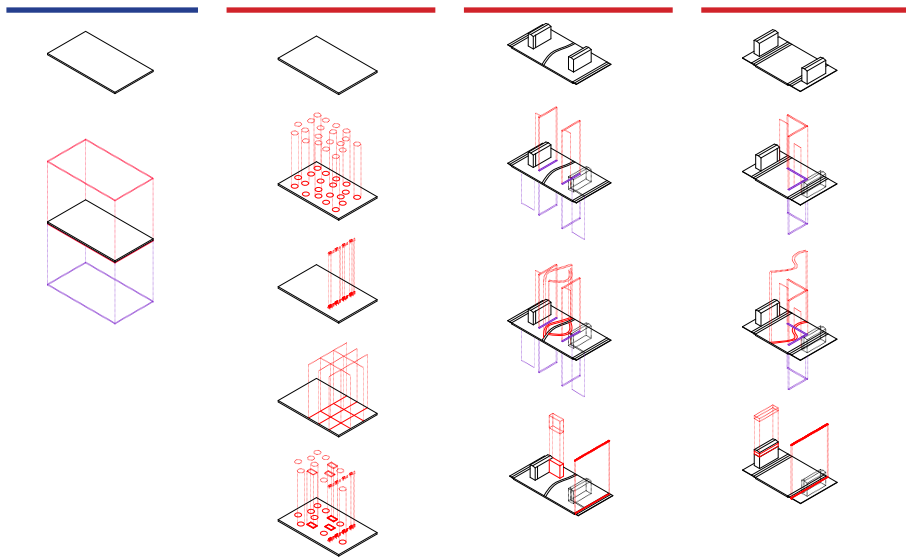
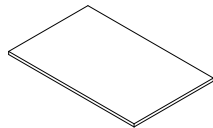


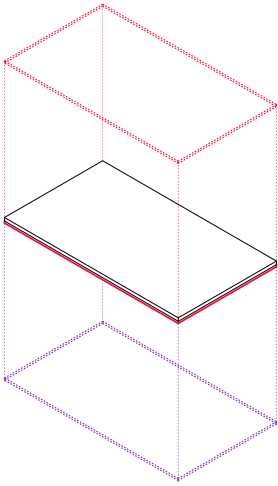
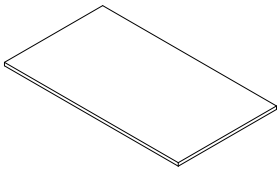
Local green areas (patch)



- Green areas
- Sports fields

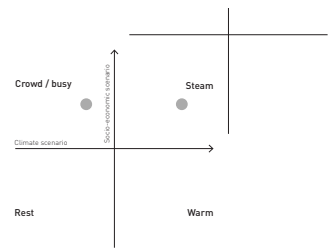
Genealogies municipal green areas

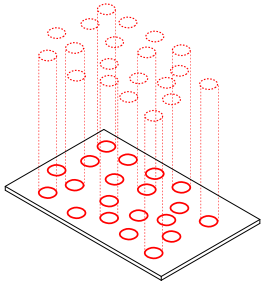
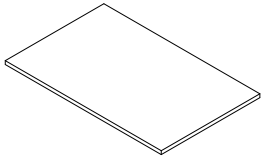




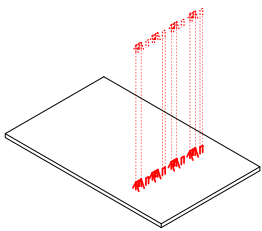
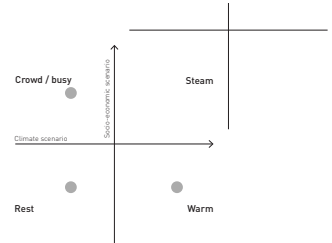
infiltration crates

soil subtraction

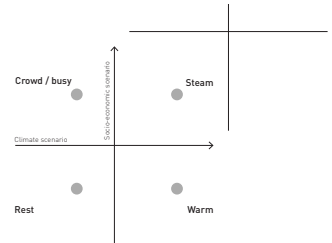




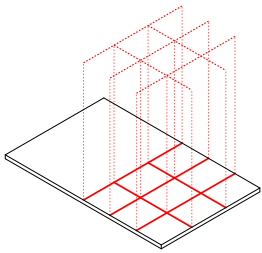
re-vegetation



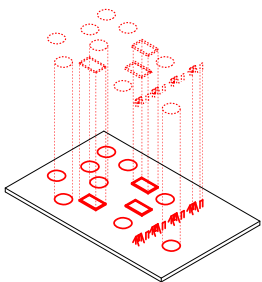
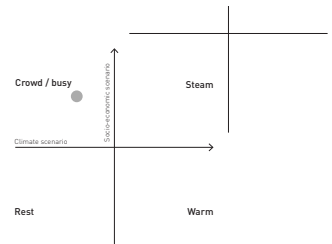
equipment



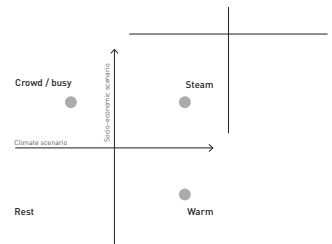
Soil Addition

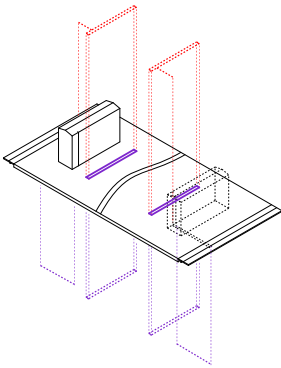
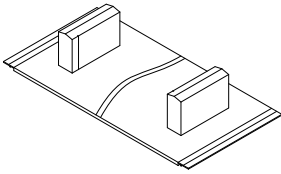


re-parcelization

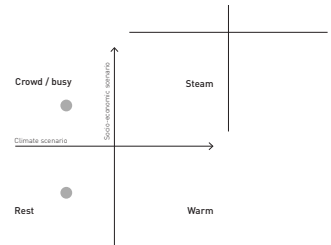


re-vegetation equipment

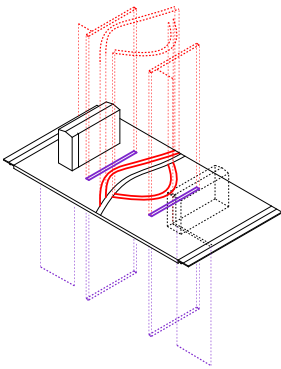




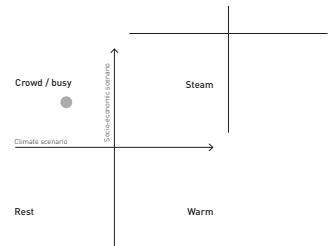
soil layers
subsurface drainage



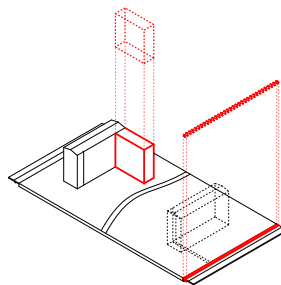
soil subtraction



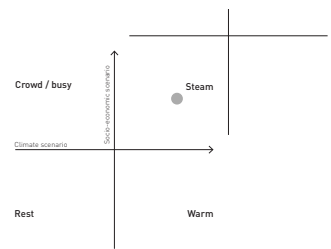
path
soil layers
subsurface drainage

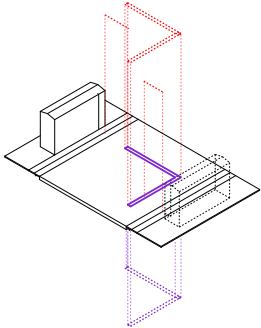
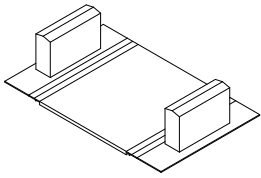


soil subtraction

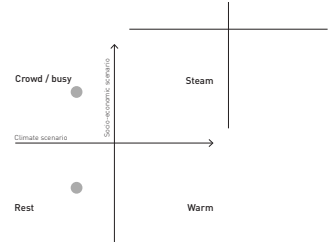


built addition
Multi Utility Tunnel

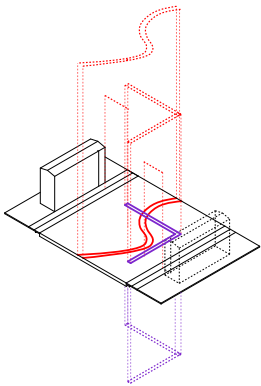




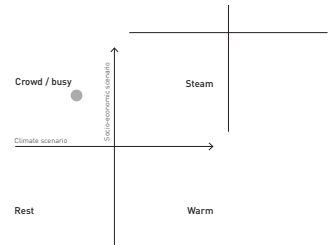
soil layers
subsurface drainage



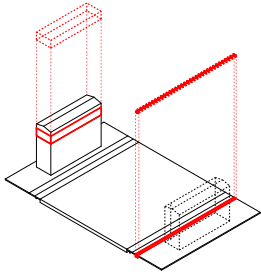
soil subtraction



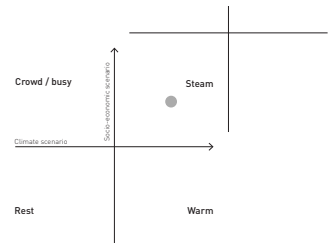
path
soil layers
subsurface drainage



soil subtraction



floor addition
Multi Utility Tunnel

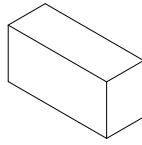


Private space intervention (patch)



- Continuos
- Discontinuos
- Industrial
- Diffuse
- Dispersed

Built Up Typologies

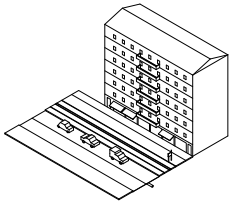


Continuous

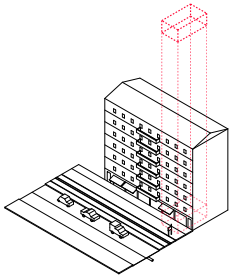


GSI
0.8
1.00

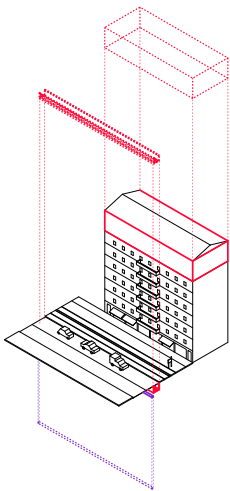




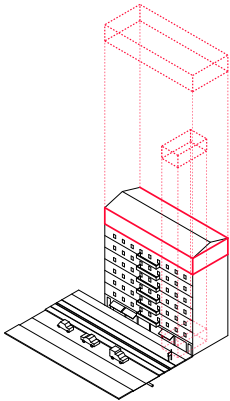
Underground water tank



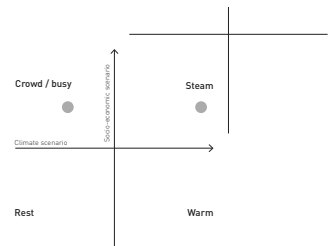
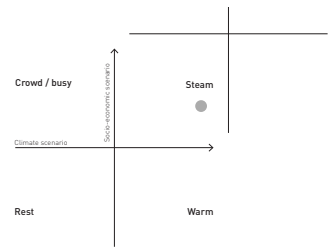
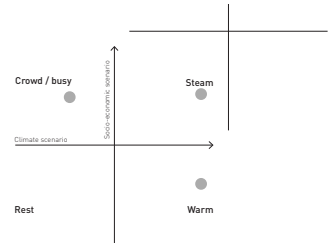
floor addition
Multi Utility Tunnel

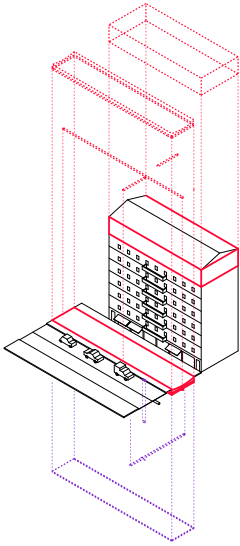


Pipes

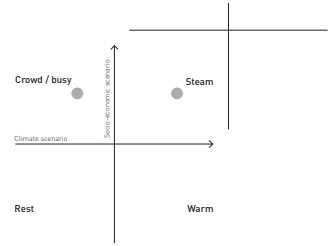


floor addition
Underground water tank

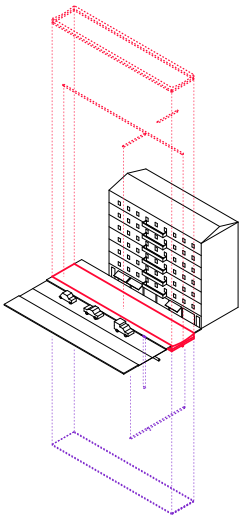




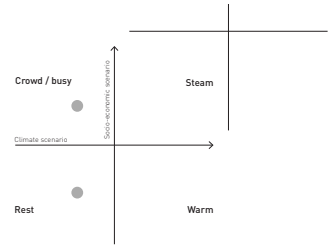
Floor addition
soil layers
subsurface drainage



curb cut
concrete subtraction



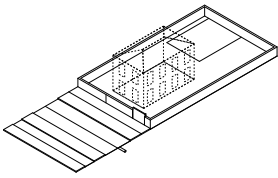
soil layers
subsurface drainage



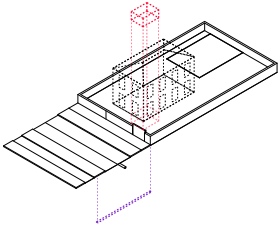
curb cut
concrete subtraction

Discontinuos

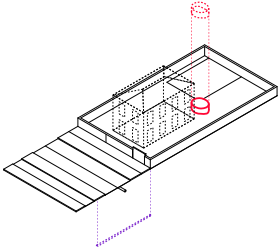




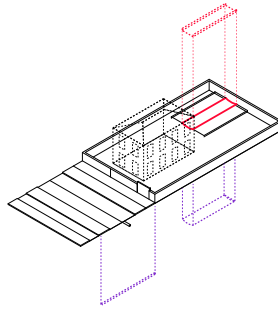
underground water tank



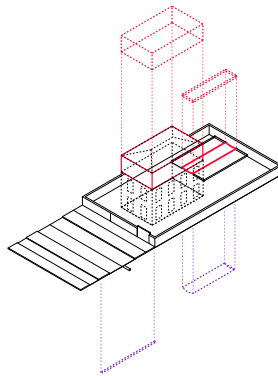
Cister water tank



soil layers

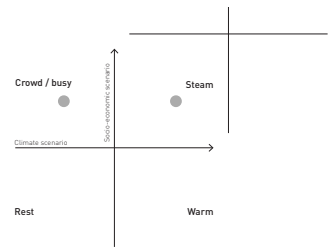
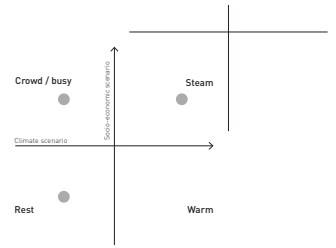
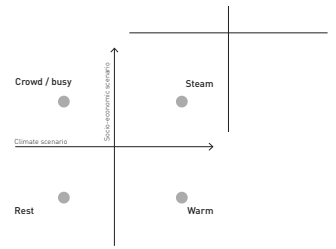
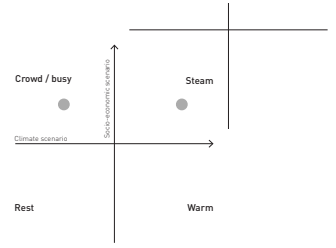


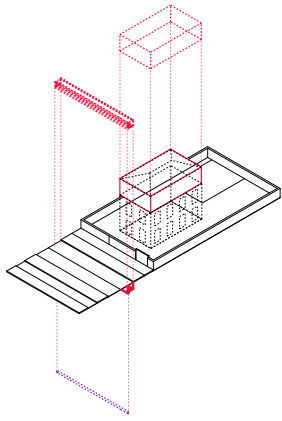
soil subtraction



floor addition
soil layers

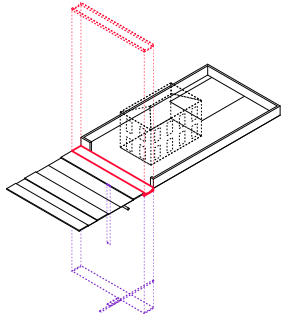
soil subtraction





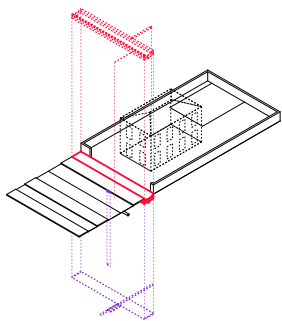
floor addition
Multi Utility Tunnel

old pipe



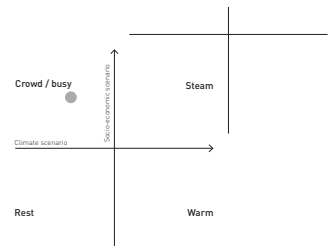
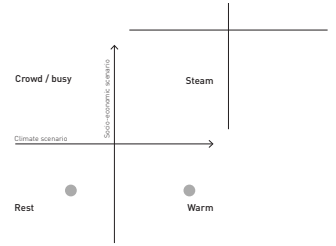
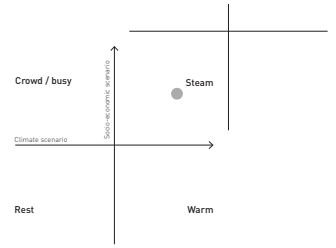
soil layers

fence subtraction



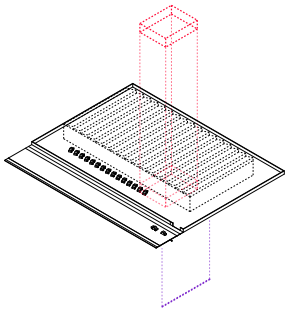
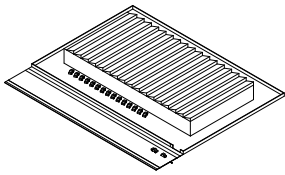
soil layers
subsurface drainage

fence subtraction

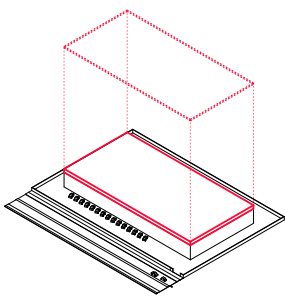


Industrial

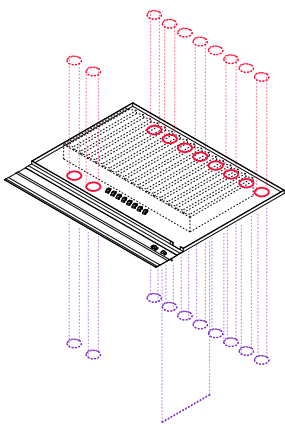




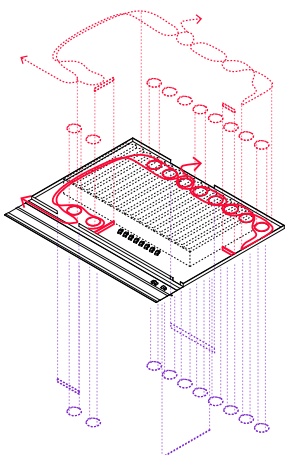
Underground water tank



soil layers



soil layers
revegetation

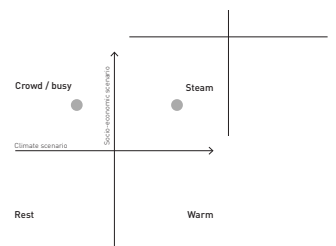
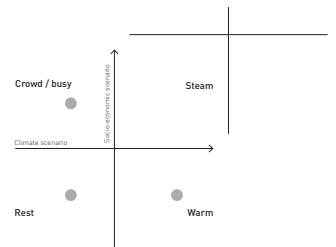
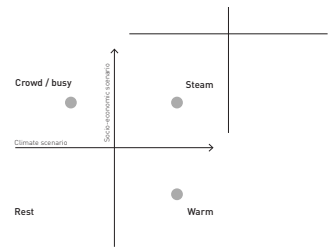
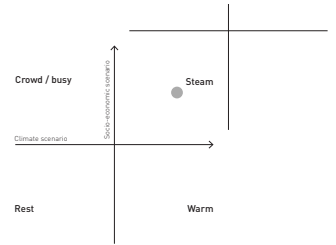


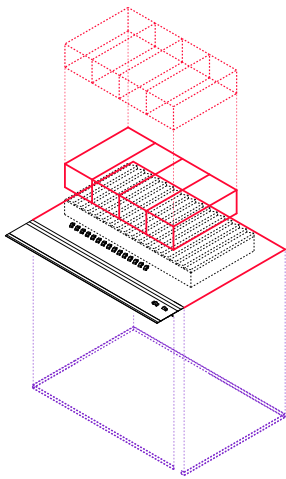
soil layers
revegetation
path
separation measure

roof subtraction

concrete subtraction

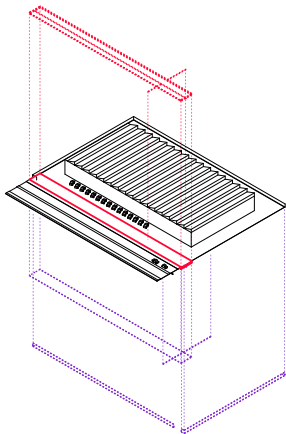
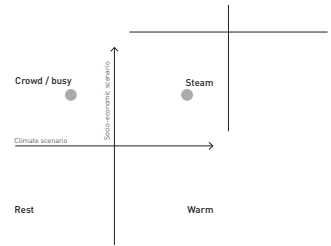
concrete subtraction





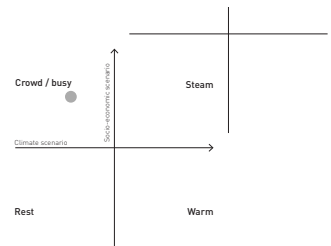
soil layers
Urbanization

concrete subtraction

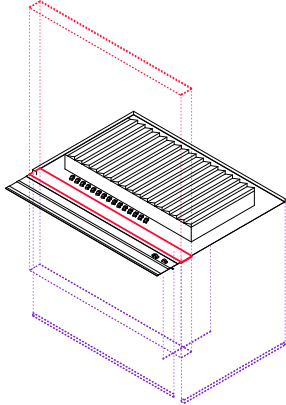


soil layers
subsurface drainage

concrete subtraction

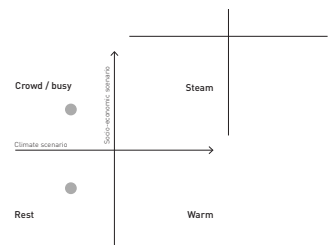


66



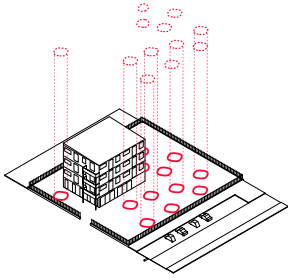
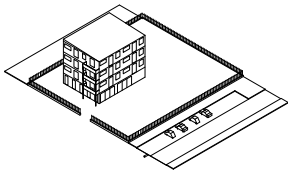
Soil layers

concrete subtraction

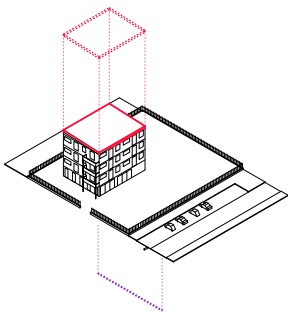
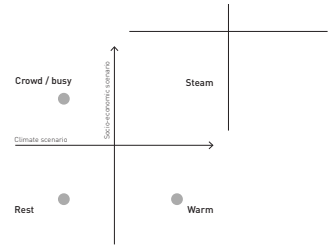


Diffuse

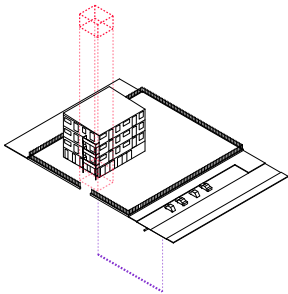
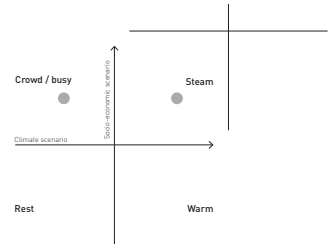




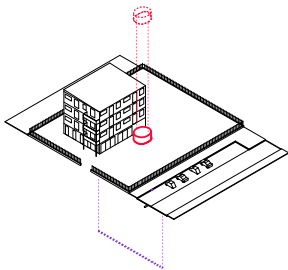
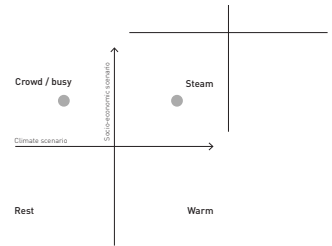
re-vegetation



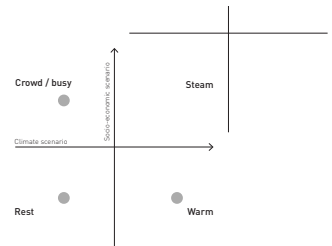
green roof



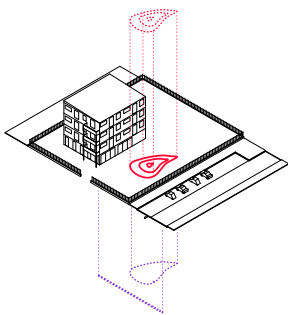
underground water tank



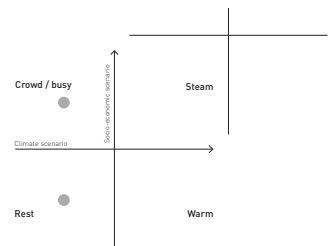
water cistern



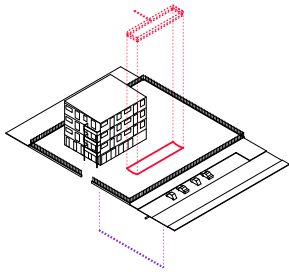
Soil Addition



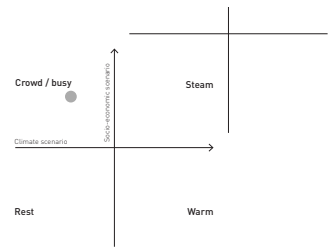
soil layers



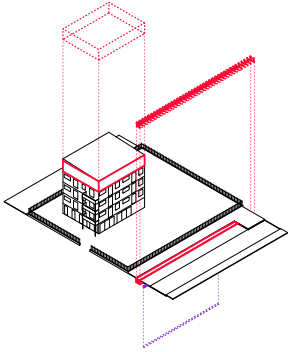
soil subtraction



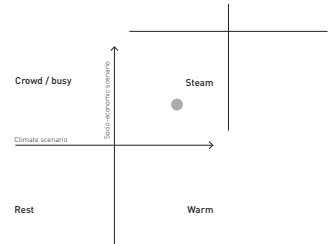
soil layers



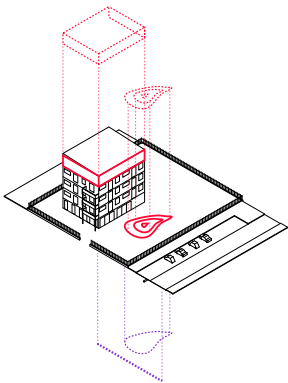
Soil Addition



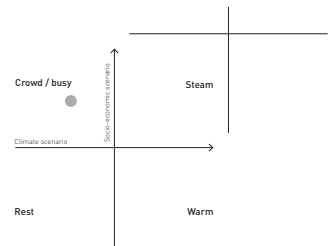
floor addition
Multi Utility Tunnel



Soil Addition

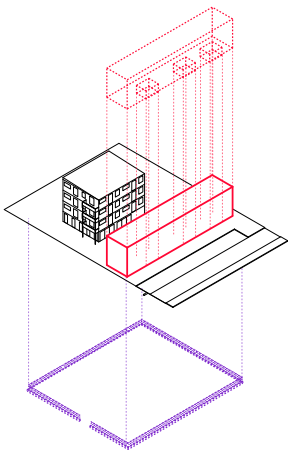


floor addition
soil layers

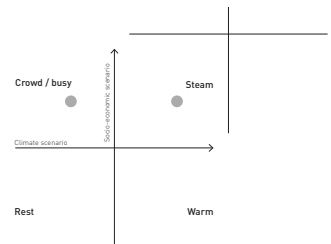


soil subtraction

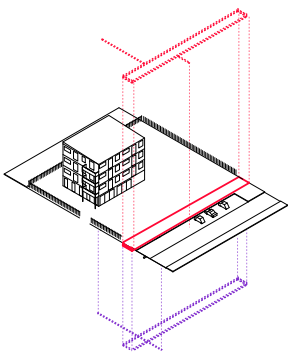
70



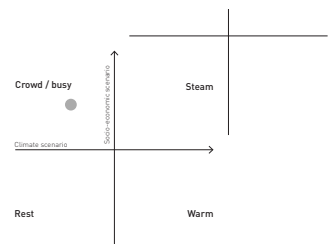
new urbanization
Underground water tank



fence subtraction



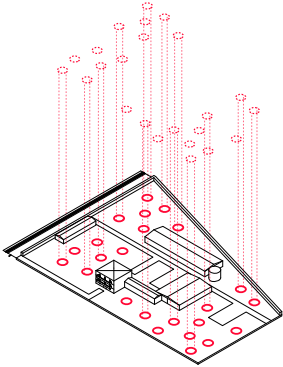
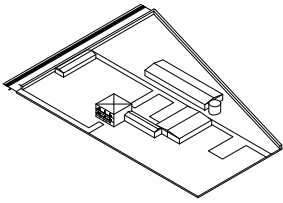
soil layers
subsurface drainage



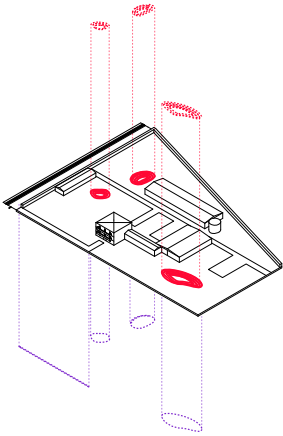
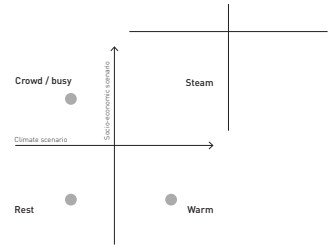
concrete subtraction
fence subtraction

Dispersed

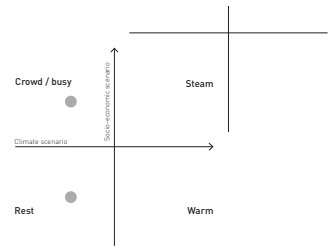




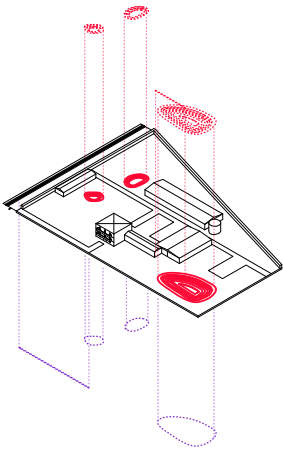
re-vegetation



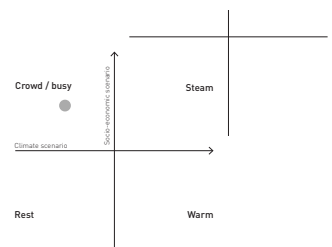
soil layers



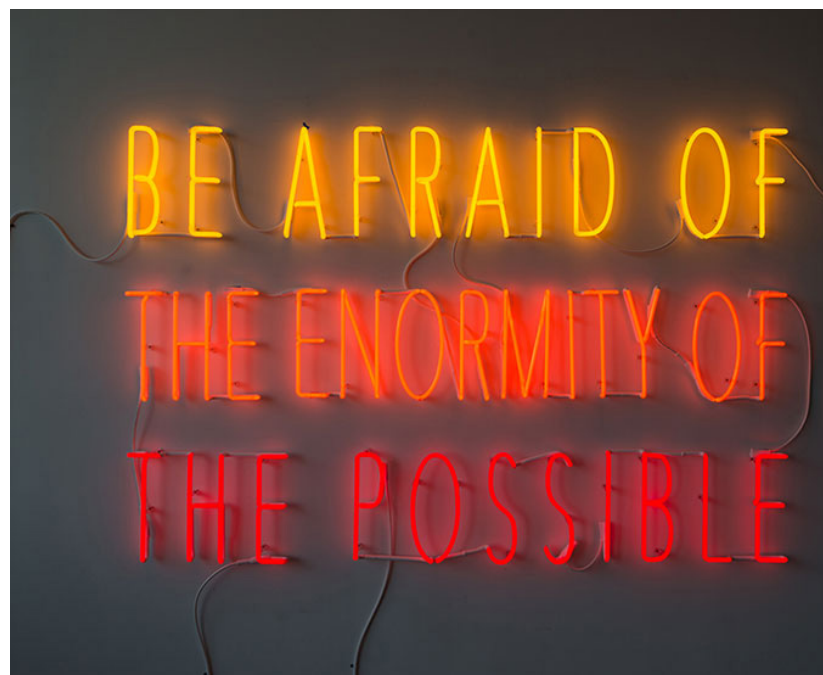
soil subtraction



soil layers
revegetation



soil subtraction



Alfredo Jaar, Art Basel, 2016.