

RE-DESIGN

ROTEHÄUSER DAMM 30

IMPRESSUM

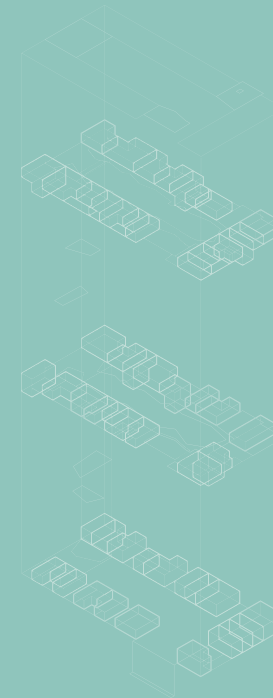
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MSc. URBAN DESIGN
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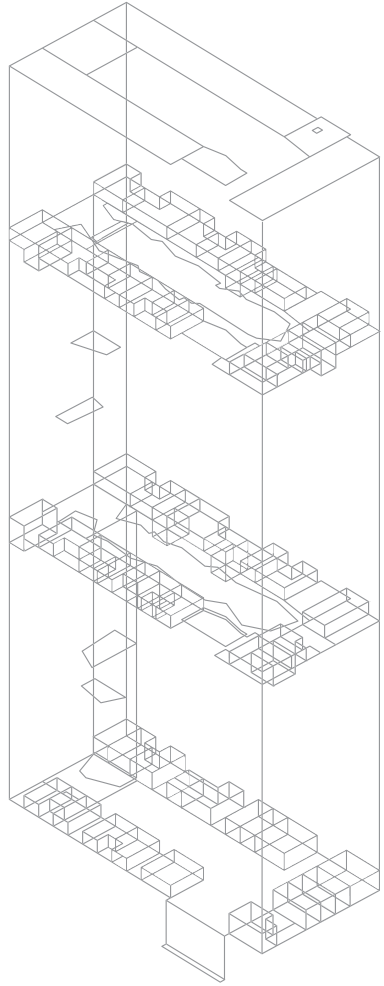
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RE-DESIGN ROTENHÄUSER DAMM 30

ABSTRACT

»Das uns offene Prozesse mindestens so sehr faszinieren, wie sie uns erschrecken, ist eine der wenigen unumstößlichen Wahrheiten der gegenwärtiger Stadtgesellschaft.«

UdN Broschüre – 2010

Starting point for this cooperative master thesis is the University of Neighbourhoods (UdN), a collaboration between the International Building Exhibition Hamburg (IBA) and the HafenCity University Hamburg (HCU). The UdN is conceived as a remaining use of a formerly abandoned building in the Reiherstieg Quarter on the Elbe river island of Wilhelmsburg. Over the period of four years the UdN has been hosting a great variety of different

research and neighbourhood activities which have been adding more value to this property. Furthermore, physical alterations have always been developed in mutual relation with the implemented programmes in order to create enabling spatial situations.

After the end of the IBA, a site clearance planned for spring 2014 should provide an empty plot for a new real estate development for an indefinite future.

Based on personal participation in different projects within the framework of the UdN, the authors want to transfer the generated resources of the UdN into an alternative scenario for a new development, in order to locally convey the project-embedded knowledge rather than just taking it back to the university.

The key aspect which can be identified at the UdN is the multifunctional use of the building ranging from workshops,

construction sites, exhibitions, housing, restaurant, screenings, theatre performances and much more. Therefore, the new proposal should follow this idea of living as a superposition of different programmes and activities, which allow an interaction of a variety of actors on local and international levels.

AUTHORS & BACKGROUND

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This cooperative master's thesis arises out of the daily practice of the University of the Neighbourhoods and shows a good example for a process of building up networks and international collaborations.

Maja Momic from Bosnia completed her bachelor of arts degree in architecture at the Università luav di Venezia, where she continued a masters programme. She carried out an internship at the UdN by joining the architecture team of the Hotel? Wilhelmsburg.

Adrian Judt on the other hand, holds a bachelor of science degree in urban planning and has gained international experiences at the ENSAPLV Paris and the University of Sheffield. He has participated in a variety of different programmes at the UdN including seminars, tree house project, the Wilhelmsburg Orchestra and construction workshops.

Both authors first met on M. Momic's arrival day at the UdN during one of the restaurant events of the Hotel? Wilhelmsburg project. During the first construction workshops in March 2013 both worked together on the building of the capsule hotel.

This first joint action prompted a reflection about the potentials of the UdN, leading to the idea for a collaborative masters thesis.

The authors would like to thank Prof. Bernd Kniess (HCU), Prof. Jesko Fezer (HfbK) and Prof. Giuseppe Longhi (UIV) for their input and supervision as well as Dipl.-Ing. Ben Becker, Dipl.-Ing. Stefanie Gernert, BA. Magdalena Maierhofer, MA Tina Steiger for their additional support.

SETTING

»Gerade diejenigen, die durch die Privatisierung öffentlicher Wohnungsbestände zunehmend vom Wohnungsmarkt ausgeschlossen werden, müssen mit Strategien unterstützt werden, die – von Bildung und Kapital unabhängige – Selbstbestimmung und Gemeinschaftsorientierung forcieren.«

Fezer/Heyden – 2007

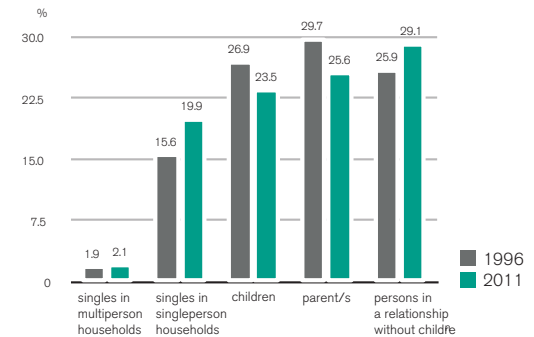
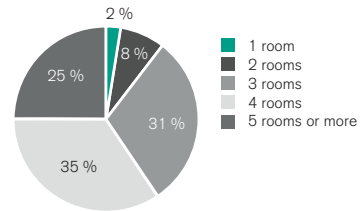
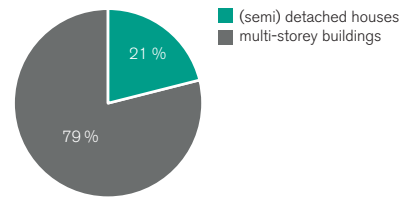
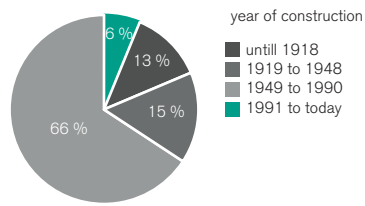


The specific focus of this thesis lies on the question of possibilities of the superposition of different programmes. The UdN is taken as a case study to reveal spatial qualities which allow a high variety of different functions to take place in the same spatial setting. With specific interest lying in the grade of determinations which can or must be made to generate a high level of appropriation opportunity.

Furthermore, the relation of the site to its surrounding neighbourhood becomes relevant. It is of importance to identify recurring themes and features in the setting of the Reiherstieg Quarter which can be implemented in a design strategy for a new development. Based on the potentials of the UdN the project wants to proclaim a new understanding of contemporary housing.

As most large cities, Hamburg is facing a rising demand for housing. Especially with big events such as the International Garden Exhibition and the International Building Exhibition this trend does not skip Wilhelmsburg. While developers mainly focus on high-price developments, the situation for middle class and low-income groups does not change but gets increasingly difficult. One general trend on the contemporary housing market is the rising demand for

Wilhelminian style apartments. These floor plan typologies are characterised by their high grade of flexibility in usage and appropriation possibilities. Today, these apartment typologies host a wide range of different programmes ranging from family housing to flat shares up to office uses and moreover mixed uses. This trend can be explained by the growing variety of lifestyles which are evolving in cities and dense urban areas, with their heterogeneous populations



and constant incoming flow of migrants. Especially in multicultural communities such as Wilhelmsburg these diverging lifestyles are a crucial theme in the local image of the neighbourhood (Frey/Koch 2011). Furthermore the density of networks of inner city quarters are a central aspect for these diverse lifestyle groups (Häußermann 2007). Nevertheless, the trend to adaptable floor plans in newly build developments is mainly limited to high-price devel-

opments, while average and low-cost housing still tends to be realised in the traditional floor plan schemes. But these standard housing typologies with their 2 to 4 room apartments for single and classic family households disregard the heterogeneous mixture of lifestyles which can also be found in average and low income groups and not only in „well off-dynamic-creative-urban milieus“. Therefore the following project is based on the idea of open building typologies

which are suitable for user participation and invite the resident to appropriate the building, an idea which can be directly drawn out of the UdN.

In the context of city revitalisation and densification the advantages of mixed use developments are becoming more and more important to generate a surplus for local neighbourhoods. Furthermore, living in a contemporary urban society cannot be distinguished in housing, work-

ing and leisure anymore, but is characterised by a continuous superposition and merging within these three classic programmes. Hence, housing can no longer be seen as a single function, but needs to be interpreted as „living“ including all possible activities and functions.

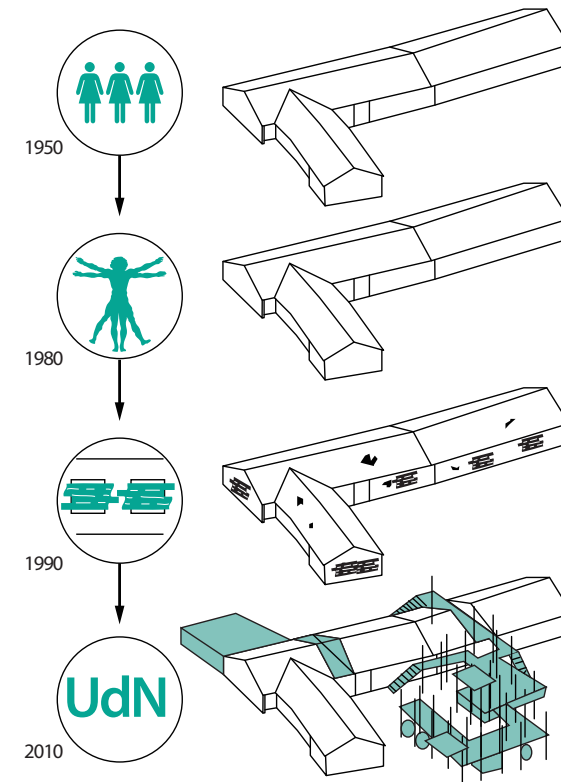
UDN – AN ONGOING TRANSFORMATION

»The history of a building is the history of its use by the people.«

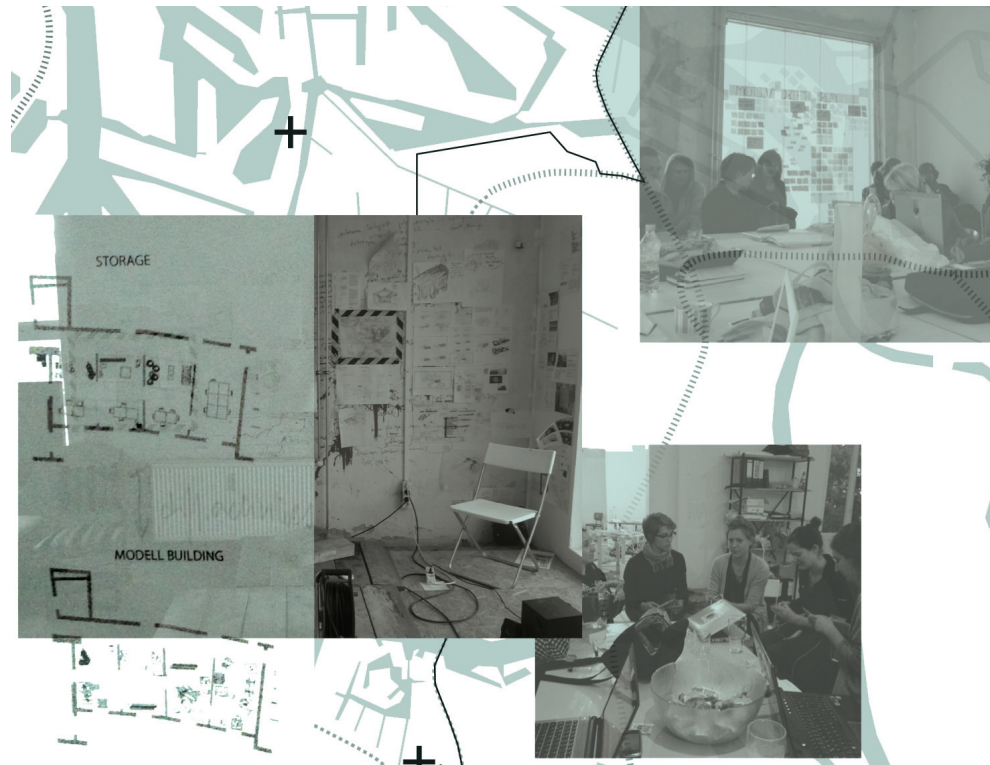
Burckhardt / Förderer – 1972

The building was constructed in the 1950s as a home for unmarried women. In the 1980s the building was transformed into a public building hosting different social services such as a local health administration centre, family counselling centre and educational support centre. However, in the 1990s it was abandoned and was left vacant for nearly 15 years. The lack of use and maintenance caused its decay as and became a site for acts of vandalism. The fact that the structure was uninhabited was an open invitation for both its destruction and appropriation. It soon became part of the IBA Hamburg which started in 2006 and was considered as collaborative project with the Hafencity Universität Hamburg (HCU), eventually leading to a "call for ideas" and architectural competition for students in

2008. The winning proposal - the only one taking the existing structure into consideration - was taken into account for a further development by the Urban Design Department of the HCU. The new programme of the University of the Neighbourhoods started with construction site internships to refurbish the rundown building and first programmatic appropriations. With the occupation of the building an ongoing process of alterations to the physical structure according to a simultaneous implementation of different programmes evolved until today. However, the contract between the city and the university expires in the end of 2013 with the final year of the International Building Exhibition and again the question of the future development of the site arises.



DIE UDN UND ICH – A PERSONAL APPROACH



2006

Das erste mal nach Wilhelmsburg, genauer gesagt ins Reihertiegsviertel kam ich bereits 2006.

Zu Beginn meines Studiums an der HafenCity Universität (Standort TU Harburg) wohnte ich dort ein gutes halbes Jahr lang. Doch nicht auf meinen Wunsch hin, sondern den Bedingungen des Hamburger Wohnungsmarkts geschuldet. Da keiner meiner Freunde hier in der Umgebung wohnte, beschränkten sich meine Aktivitäten vor Ort nur auf die Befriedigung von Grundbedürfnisse wie Einkaufen oder um zur nächsten Bushaltestelle zu gehen. Aufgrund dieser nicht nur räumlich, sondern auch für mich persönlich sozial isolierten Lage war ich dann auch nach 6 Monaten froh im Norden Hamburgs eine Wohnung gefunden zu haben.

2010

4 Jahre später: Im Zuge meines Masterstudiums fand eine Pflichtveranstaltungen in der frisch in stand gesetzten Universität der Nachbarschaften statt. Der Gedanke für ein Seminar extra den in schlechter Erinnerung gebliebenen langen Weg nach Wilhelmsburg zu unternehmen, färbte sich auch auf die UdN ab. Die UdN war somit für mich nicht viel mehr als ein beliebiges, halb fertiges Universitätsgebäude auf der anderen Seite von Hamburg. Eine kalte, im Rohbau befindliche Hülle in der man Stundenplan bedingt an einer Lehrveranstaltung teilnehmen musste.

2011

Mit dem Beginn eines Forschungsprojektes begann dann jedoch ein langsamer Wandel. In unserem Projekt (Lene Benz, Katharina Böttgers, Kathrin Dröppelmann) beschäftigten wir uns mit den „Lieblingsorten“ der Bewohner Wil-



helmsburgs. Dazu führten wir zahlreiche Interviews mit Passanten und Bekannten aus Wilhelmsburg, die uns über ihren persönlichen Lieblingsort berichteten. Nach dem wir die Interviews geführt und ausgewertet hatten, machten wir uns auf die Suche nach diesen Orten um dort unsere Eindrücke in Skizzen fest zu halten. Im Rahmen dieses Projekt lernten wir sehr viel über die unterschiedlichen Bewohner Wilhelmsburgs und über ihre Eindrücke und Wahrnehmung von Wilhelmsburg. Durch die daraus resultierenden (Wege)Beziehungen wurde die UdN für uns zur zentralen Basis von der aus wir unsere Forschungsgänge organisierten und unser Material bearbeiteten. In der praktische Ausführung war dies natürlich damit verbunden, dass wir uns im Forschungsteam für die Arbeit in der UdN verabredeten und somit auf Eigeninitiative an die UdN kamen und nicht mehr „lehrplanmäßig“ gezwungen wurden. Am wichtigsten waren allerdings die vielen

kleinen alltäglichen Dinge wie Kaffee zubereiten, zusammen einkaufen gehen und in der UdN zu kochen. Erst durch solche, an sich banalen Handlungen entwickelte sich ein erster persönlicher Bezug zur UdN.

2012

Nach einem Semester Unterbrechung durch einen Auslandsaufenthalt kam ich nicht nur nach Hamburg, sondern auch wieder zurück zur UdN und in das Reiherstiegsviertel. Für das Q-Studies Seminars „WilhelmsburgOrchestra“, einem Improvisationsorchester mit Studierenden, diente die UdN als Proberaum von wo aus wir verschiedene Gigs in öffentlichen Räumen wie auf dem Stübenplatz oder in einem Waschcenter in der Georg-Wilhelmsstraße unternahmen. Das die UdN für diesen Kurs ein zentrale Element darstellt war natürlich vorab bekannt. Anders als vielleicht ein Jahr zuvor entschied ich mich bewusst dafür, die

Möglichkeiten der UdN weiter erkunden. Durch das gemeinsame Musizieren entwickelte ich eine weitere Perspektive. Diesmal war es nicht die eine Forschungsarbeit oder die der alltäglichen Handlungen, sondern eine neue, schwer zu beschreibende Atmosphäre die sich aus dem Zusammenkommen des Orchesters und dem Gebäude selbst entwickelte. Es scheint mir heute, dass dafür das die UdN das Format des Wilhelmsburgs Orchestra perfekt geeignet ist, da es nicht explizit auf universitäre Forschung oder Projekte ausgerichtet ist, sondern aus sich heraus eine eigene Dynamik entwickelt, die von jedem Teilnehmer durchaus unterschiedlich aufgenommen werden kann. Ganz ähnlich verhält sich die UdN. Nur durch die aktive Teilhabe bzw. Teilnahme an der UdN lernt man das ihr immanente Potential kennen, dass die UdN zu etwas außergewöhnlichem macht. Nach dem Motto „von nichts kommt nichts“ müssen sich die jeweiligen

Akteure auf ihre Umgebung einlassen und aus dem Prozess heraus eine Gestaltung entwickeln.

Im Sommer 2012 intensivierte sich dann mein Bezug zur UdN. Durch das Baucamp des IKP-Seminars Baumhäuser wurde die UdN nicht mehr nur ein Stützpunkt für Feldforschungen und Interventionen in Wilhelmsburg, sondern das Gebäude selbst wurde zum Bestandteil des Projektes. Mit der „heißen“ Organisationsphase wurde UdN zum Organisationsbüro und Materiallager. In dem darauf folgenden Baucamp realisierten wir mit Kindern aus Wilhelmsburg und Studierenden der HafenCity Universität sowie internationalen Gästen verschiedene Baumhäuser im Rotenhäuser Park und auf dem Grundstück der UdN. Dabei wurden die Räumlichkeiten immer wieder als Werkstätten und für Bastel-Workshops temporär umgenutzt. Die Arbeit in und mit dem Gebäude der UdN fand von Morgens bis Abends statt,

sodass meine eigentliche Wohnung nur noch als Schlafstätte genutzt wurde und sich das Leben während dieser Zeit gänzlich auf die UdN fokussierte. Durch diese extreme Inanspruchnahme des Gebäudes zeigten sich viele Qualitäten, die zuvor nicht wirklich von Bedeutung gewesen waren. Insbesondere durch das Öffnen der großen Fensterfronten zum Park wurde das Gebäude zu einem durchlässigen Körper, der durch die zahlreichen Aktivitäten und Bewegungen in und um das Gebäude mit seinem Umfeld verschmolz. Durch diese Fülle an Aktivitäten und die große Offenheit des Gebäudes kam ich auch öfters beiläufig mit Passanten in Kontakt, die das Gebäude von früher kannten und nun interessiert daran waren was hier geschah.

Ein weiterer Schritt folgte kurze Zeit später durch meine Teilnahme an dem internationalen Forschungsworkshop „Neighborhoods“. Für circa zehn Tage wohnte und

arbeitete ich zusammen mit 20 Gastforschern aus Europa und Ägypten in der UdN, von wo aus wir unsere Forschung auf der Veddel koordinierten. Auch wenn die Wohn-Phase sehr kurz war hinterließ sie doch einen bleibenden Eindruck auf mich. Die gemeinschaftliche Nutzung des Gebäudes, nicht nur als Arbeitsplatz, sondern als wirklichen Lebensraum, der durch die alltäglichen Abläufe eine ganz andere Wahrnehmung generiert. Die UdN mein Zuhause, zumindest für 10 Tage und 10 Nächte. Hinzu kam, dass jeden Tag Kinder an der UdN vorbei kamen und in den von uns gebauten Baumhäusern spielten und man auch weiterhin von den Eltern der Kinder begrüßt wurde und dadurch das Gefühl von bekannter Nachbarschaft verstärkte.

2013
Den vorläufigen Höhepunkt in meinem Wirken in der UdN ist für mich die Mitarbeit an dem Projekt „Hotel Wilhelmsburg“.

In den mehrwöchigen Bauworkshops gingen wir noch einen Schritt weiter als im Baumhaus Baucamp und begannen mit der Transformation der bestehenden Gebäudestruktur. Die Beschaffung der Materialien erforderte weiterhin einen intensiven Umgang mit ganz unterschiedlichen Akteuren in Wilhelmsburg und verstärkte den Kontakt mit den Menschen aus dem Viertel. Hinzu kam die kontinuierlich gestiegene Intensität der Nutzungen in der UdN durch die dort wohnenden Künstler, Praktikanten und Projektbetreuer, sodass sich die UdN in einen offenen und kommunikativen Raum entwickelt hat, der sich in einem noch nicht beendeten Entwicklungsprozess befindet. Wie Benjamin Becker einmal treffend formuliert folgt die Performance des Gebäudes dem Programm der Nutzungen. Die UdN ist kein Universitätsgebäude mehr, sie ist sogar mehr als ein Treffpunkt geworden. Für mich wurde die UdN zu einem Prozess den ich aktiv mitgestalte.

Insbesondere durch Projekte wie das Restaurant und das Hotel wurde für mich die UdN zu einem Treffpunkt außerhalb der regulären Hochschulveranstaltungen. Die UdN wurde für mich zu einem Ort des Bauens, des Diskutierens, um Menschen und Kulturen kennen zu lernen, zu einem Raum der Möglichkeiten. Durch meine vorangegangenen Erfahrungen mit der UdN hat sich mein Verständnis und mein Umgang in und mit diesem Raum soweit geändert, dass ein Besuch in der UdN immer mehr zu einer Art „Besuch bei Freunden“ wurde. Ich würde sogar soweit gehen, mich selbst als Teil der UdN zu verstehen.

Aus meiner ehemals eher negativ geprägten Haltung entwickelte sich ein persönlicher Bezug, der sich über die unterschiedlichen Formate hin wandelte und die UdN für mich zu einer Institution werden lies.



The location of a room in the relation to the building and its surrounding allow a specific uses to settle.

THE UDN TODAY

»... also prozesshafte Architektur und prozesshafte Planung, die nicht deterministische Planungsverfahren als Grundlage für sich verändernde Architekturen - Architektur und Planung als offenes System - Vorgänge jenseits von Objekt und Determinismus.«

Wolff-Plottegg - 2007

The University of Neighbourhoods is a continuous learning platform. It is an ongoing building site, a stage, a laboratory and an interactive space.

It is a university site in the first place, hence the strong accent on research and educational aspects. Secondly, it is embedded in the neighbourhood and therefore most of its programmes are based on the interaction or research within its immediate context.

It is a place for leisure and entertainment with the possibility to host events, concerts, movie screenings or just enable participants and visitors to have a chat at the fireplace.

It is a work in progress, because the goal is not defined in terms of a precise architectural or economic output. It is rather an open evolution, rich with diverse inputs and improvisation: the continuous making of.

The UdN is a unique opportunity to experiment in 1:1 scale, addressing the topic of defining a spatial quality in the context of low-budget, explore the minimal requirements of private space and in this way reflect about issues of contemporary dwelling.

It adds value to the existing resources by integrating parts of the building that are already in use with new extensions. But

most of all, it is a real-life proof that space is not made by architecture but that it is created by the actions of people.

The UdN is more to architecture than just form and function, by virtue of putting people in the first place: it is made by people and for people.

The various programmes that took place in the last four years built-up networks of local and inter-national actors and local economies with a significant potential in its culturally diverse context.

hotel, university, bar, restaurant, home, work, DIY, recycling, pool, community, open,
responsibility, hospitality, appropriation, activity, exhibition, culture, events, neighbourhood,
gardening, kitchen, lectures, laboratory situation.....



TOPICS

OPEN PROCESS

The concept of the UdN is characterised by its structural openness that enables various projects with undefined outcomes. Significant for this approach was the maintenance of the abandoned building. At the beginning, only a vague concept existed which laid the base for the dimensions (for events) of rooms and facilities (kitchen). Therefore a system of subtraction was applied to create an open but divers spatial system around a central facility unit. In its present stage, the UdN is supplemented by various extensions according to the developed programme.

COSMOPOLIS

Cities have always been a hub for intercultural exchange and still today migration is becoming more and more important in our society. Wilhelmsburg and the Reiherstieg Quarter in specific are standing equivalent to this migration history. Formed by merging several river islands, Wilhelmsburg was inhabited through migration from the very first moment. Today, inhabitants from almost 100 nations are living next door in coexistence (IBA Hamburg, 2013). Even the UdN frequently hosts guests from all over the world.

SUPERPOSITION OF FUNCTIONS

Within the profession of urban planning and architecture an ongoing trend towards mixed used developments is visible. Often following the idea of the "city of short distance" the mix of different uses avoids traffic and mono functional sleeping quarters but therefore generates a frequency of activities, relations and encounters. Major criteria for these urban areas depend on scale and distance as well as the mix of different programmes such as dwelling, working and leisure. The UdN is taking this concept to another level of superposition. Within one building(site) a variety of different activities ranging from dwelling to consumer oriented functions up to manual work are overlapping within the building.

SPATIAL QUALITIES

In the architectural discussion, spatial qualities usually describe general characteristics such as the brightness or the dimensions of an architectural space as proverbial 'container'. But as each individual, or group, or even culture has its own body-performative knowledge, spatial qualities must take specific elements into consideration. It is the distinctive architectural attribute which enables or prevents appropriation and therefore spatial quality is much more than an illustration of atmosphere.

APPROPRIATION

According to Max Weber the term 'appropriation' is an activity of generating ownership by acquiring social and economical opportunities. This appropriation prevents outsiders from taking the same chances. When this concept is implemented to the physical space it brings us to the understanding that spaces open for appropriation are also spaces of opportunities. If someone appropriates space, then the spatial entity is not accessible anymore. Nevertheless, the qualities of appropriation vary from slight temporary utilisation up to permanent individual occupation.

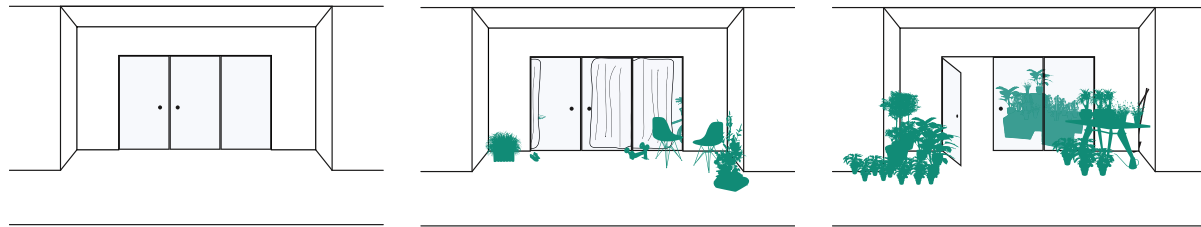
MINIMAL DWELLING

Especially for young and urban people, personal mobility and flexibility has become more and more important, leading to a reduction of a permanence of living in the same locality. Additionally, rising rents give rise to cutting costs by sharing facilities. These trends can be observed not only in student and alternative households but moreover within the wider range of contemporary society, which manifests itself in a reduction of private space.

COLLECTIVE SPACE

The reduction of private spaces within student accommodations and flat shares is based on the strategy of combining functions of different actors to generate a surplus. In recent times, this idea has become increasingly popular not only in apartments but moreover in a huge variety of housing developments ranging from cross-generational living to the rising numbers of building group projects. This surplus of combination can either be interpreted as a cost cutting measure by keeping the necessary facilities, or in the opposite way, by increasing the quality with a constant monetary input.

INDIVIDUAL & COLLECTIVE



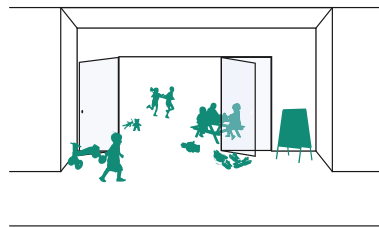
In a setting which is characterised by a superposition of various activities, where a density of different programmes takes place, where a wide range of contrasting actors with many divergent ambitions and expectations come together, it is logical that the question of differentiating between public and private zones arise.

The case study of the UdN reveals that the general terms "private // partly private // semi-public // public" which are used in the fields of architecture and planning cannot represent such complex situations. Therefore distinguishing architectonical space by these four categories does not meet the contemporary requirements if space is understood in its relational context. Furthermore, it is not possible to predetermine a part of a building or a city

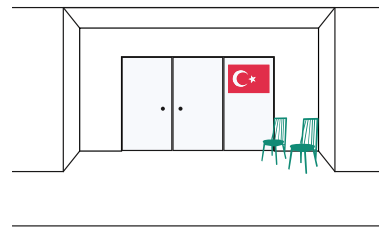
as public or private if neither the activities which take place nor the actors who are involved are yet known.

Nevertheless, the discourse with the specific situation at the UdN gives us the opportunity to understand the differentiation between public and private space in a way of collectively and individually used areas. Developing this understanding with the notion that space is under-

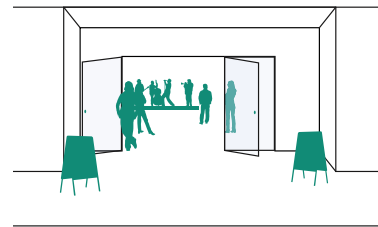
stood as "spacing and the performance of synthesis" (Löv 2001), the conclusion can be drawn that the level of privacy is determined by the grade of appropriation. The practice of appropriation goes along with the arrangement of elements (social/actors and non-human/actants) (Latour, 2002) which then is perceived by each individual person as a level of publicness / privateness.



Following this understanding, a spatial situation and its occupation by an actor is the transmitter of a perceived grade of privacy. On the other hand, it is each individual person who acts as recipient by noticing a specific scale of publicness / privateness due to his synthesis of the observed situation. Therefore it is the relation between the transmitter and the recipient which defines the character of accessibility for each individual person itself.



In a design project where a strong focus lies on the relation and interaction between individual and collective physical spaces, this understanding of possibilities of perceived privacy levels replaces the outdated definitions of "private", "half private" and so on. Therefore the following design interprets the architectural space primarily as fully accessible or the opposite, generally closed. By addition of various architec-



tonic attributes, different spatial qualities are created which facilitate or impede distinctive activities. Further on, it is the condition of these activities of appropriation - whether it is temporary or permanent, its grade of individuality or its spatial dimension - which transmit a level of privacy.

This strategy transforms the idea of „individual & collective“ into an architecture that enables appropriation and develops its „openness“ out of its own performance.

STRUCTURE OF THE THESIS

Starting with the setting of the UdN and its neighbourhood the project can be differentiated in three separate parts. The first two components describe a reciprocal research on two levels: the UdN case study on the one hand and the urban studies of Wilhelmsburg on the other. The third part connects both researches in a Design Strategy for the new development.

The first part of the analysis focuses on the UdN as a case study which is undertaken as embedded and action research. The research is structured into three different steps with each step being more detailed than the previous one. The case study starts with a general interest about the inherent potentials of the UdN. The scan is using a triangular investigation approach, which explores

the relation between actors, programmes and physical space. Through this method it is possible to reveal the high density of diverse activities and programmes which take place at the UdN and lead to forming the question of the superposition of activities.

Due to a necessary focus on only three activities (presentation / meal / retreat) the relations of actor categories, activities and spatial entities is explored more thoroughly.

Another zoom into four different programmes (Tree Houses 2012, Hotel? Wilhelmsburg, Low Budget Urbanity Congress and the Café UdN) examine the spatial characteristics which allow the coexistence of different activities within one spatial setting.

During each step, several conclusions are drawn which have an impact on a later design project.

At the same time an analysis about themes and aspects within the river island of Wilhelmsburg is undertaken.

Starting with a general introduction to the situation surrounding the UdN, the research is mainly based on already existing material which had been generated within the last years by the IBA Hamburg GmbH, the Hafencity University in general and in the more recent time, by students of the Urban Design department of the HCU. This scan of material results in a catalogue of aspects which is then solidified by additional research on the neighbourhood in specific.

Out of this catalogue different main subjects are extracted which then are transformed into six radical scenarios bringing different programmes into focus. In these scenarios a study of the direct effects on the site and the future impacts on the surroundings are undertaken.

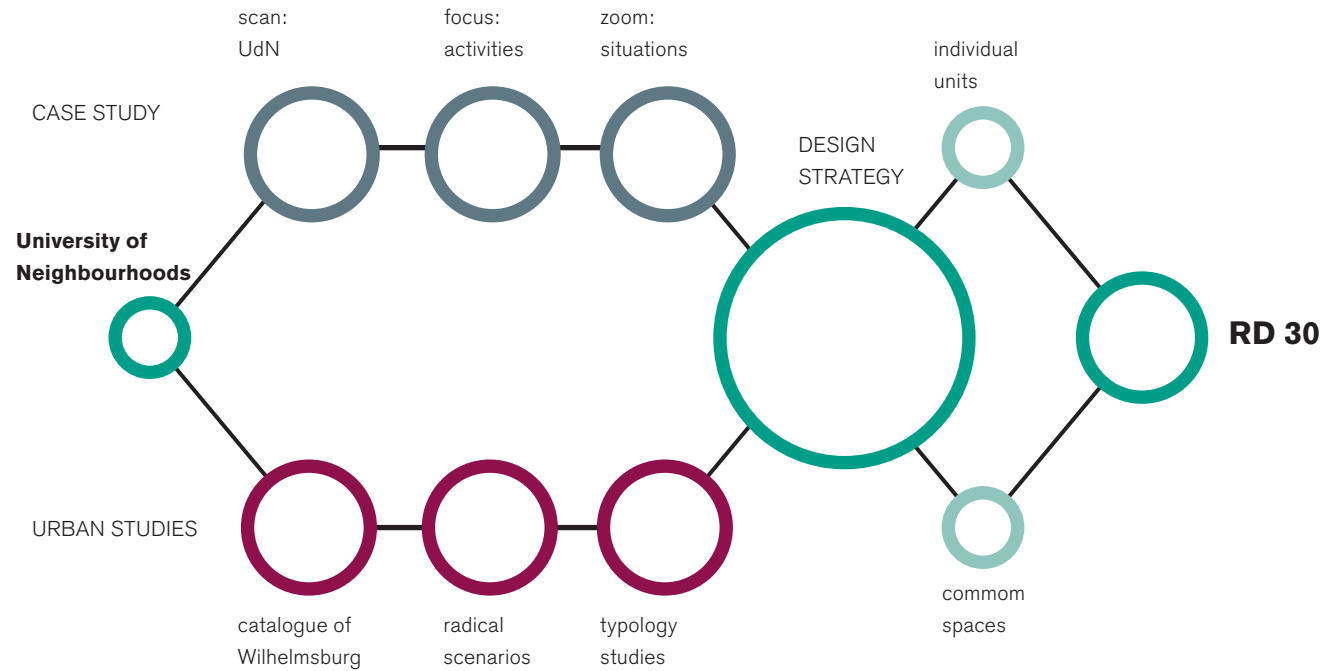
As each specific programme goes along with a typical building typology, the advantages and disadvantages of application of these typologies are studied in terms of relations to the site and their adaptability to the concept of individual and collective. In addition, this analysis is incorporated in the definition of case studies of possible building typologies on an urban level.

The third part is bringing both strings together in a programmatic approach based on the idea of individual and collective, resulting in the concept

of composed units. This leads to the formulation of a design strategy for the new development, differentiating between individual and collective components of the building complex.

The design of the individual units follows a principle of addition, producing a modular catalogue of spatial units to be inserted into a primary structure which follow the principles of the Open Building Theory. On the other hand, the design of the collective components is based on a system of spatial attributes assigned to different spaces in order to generate diverse spatial qualities open for appropriation.

Finally, the two components of the building are joined together in a scenario of a possible colonising the individual units and variations of inhabiting the collective areas.



RD 30

RE-DESIGN ROTENHÄUSER DAMM 30

During the research, it became more and more evident that the existing structure is in such a poor condition that a renovation of the existing building could only be achieved by a big effort. Some of the problematic aspects are lack of insulation, unsealed windows, open roof, sagging foundation, inefficient heating, etc. Hence, a decision to keep the existing structure would be far from sustainable. Furthermore, it is not about clinging to emotional values and trying to keep the status quo at any cost, but rather reflect on the aspects that are worth keeping and implementing them into a strategy for future development.

However the direct demolition of the building with two possible unsatisfying scenarios needs to be prevented. On the one hand, the deconstruction is immediately followed by the construction of a new building with the result, that the

time frame for a participatory process between now and the erection of the building would be too short and therefore not feasible. The second scenario would take a participatory process serious and consequently lead to a vacant plot situation.

Instead of demolishing the whole building right away, the proposition of a gradual deconstruction is made. Based on the existing setting, an embedded participation process could be implemented. The remaining still functioning building could be collaboratively used by remaining students and neighbours as well as headquarters for local initiatives and individual actors to get involved in the process of developing the in-fills for the determined primary structure and possible programmes to implement into the collective area.

INDIVIDUAL & COLLECTIVE



only collective

PROGRAMME



the programme and activities persist through the transformation process →

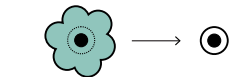
SPATIAL SETTING



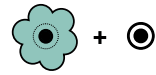
2014



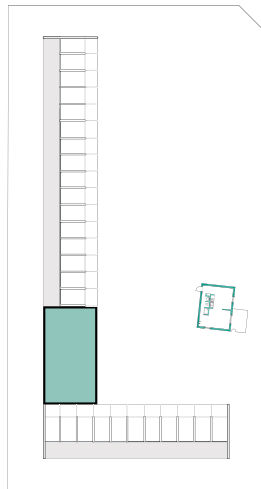
2015



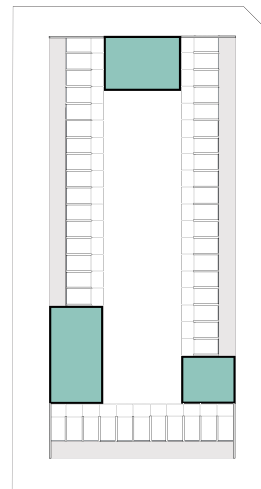
individual developed out of collective



individual & collective



2016



2017

The demolition of the existing structure starts by removing the northern wing with the individual rooms. Like this the major collective functions of the kitchen and the event space with the workspaces can still be in used as workspace, meeting and event room. Furthermore, the studio apartment is kept as individual unit occupied by a "housekeeper".

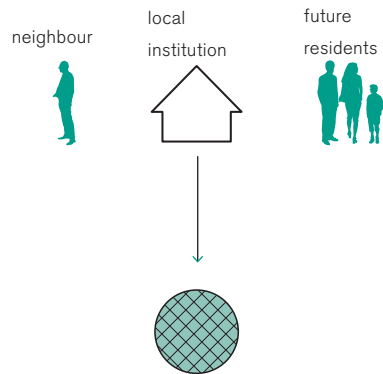
The second phase starts with the deconstruction of the remaining collective space that the studio apartment is remaining as last fully equipped unit. In this time the first two individual unit blocks with the sandwiched collective space of the event room can start to be constructed. During this time, the remaining studio apartment is kept as on-site meeting spot.

In the final stage, the last remnants of the former building are turned town and the last individual unit block and the unfinished collective space are completed.

».... von der architektonischen
Wunscherfüllung zur Wunschproduktion
.... von der Funktionserfüllung zur
Funktionserfindung«

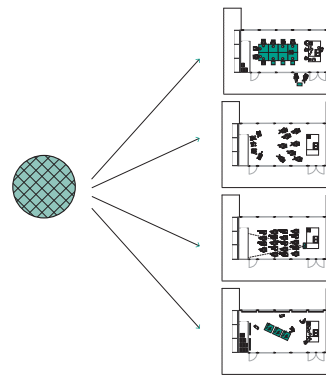
Wolff-Plottegg – 2007

OPEN PARTICIPATION PROCESS



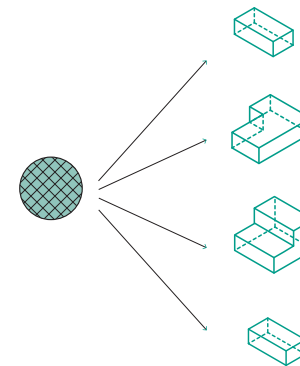
The proposed process of participation differs from known ones of building groups as there is not a specific determined group of future inhabitants. It is rather an open process of defining the parameters of the fill-ins of the collective spaces which is also open to the neigh-

DETERMINING FUNCTIONS & FIT-OUT OF COMMON SPACE



bourhood as possible additional users. Moreover, the participation process is focusing on a programme of the individual units based on their size and spatial qualities, such as counters towards the collective spaces have a high influence on the future utilisation. After that, the

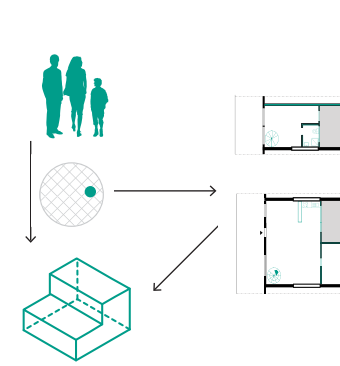
DETERMINING INDIVIDUAL BLOCK FILL-INS



precise unit-layout is taken into consideration with each individual tenant / actor group.

This process can be characterised as an experiment to develop the individual out of the collective. Therefore the following

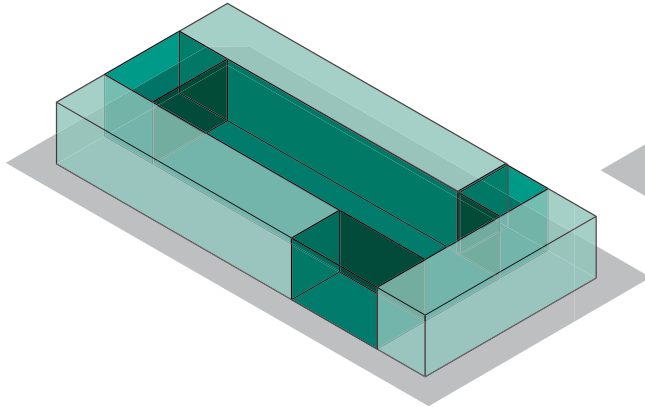
DETERMINING SPECIFIC FITOUTS OF INDIVIDUAL UNITS



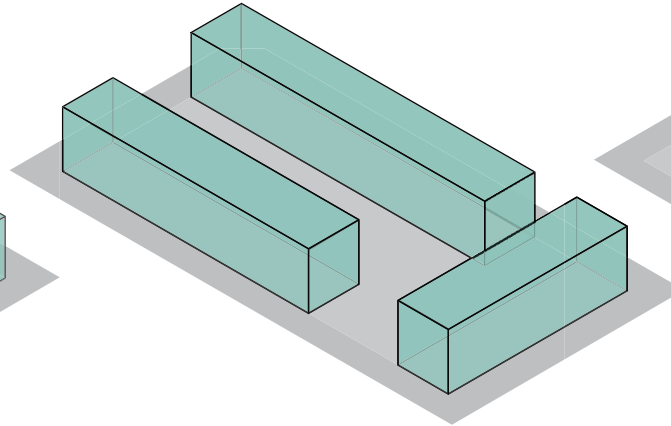
project does not propose a final architectural solution, but is rather a proposition to start a discussion about the future of the site.

RD 30

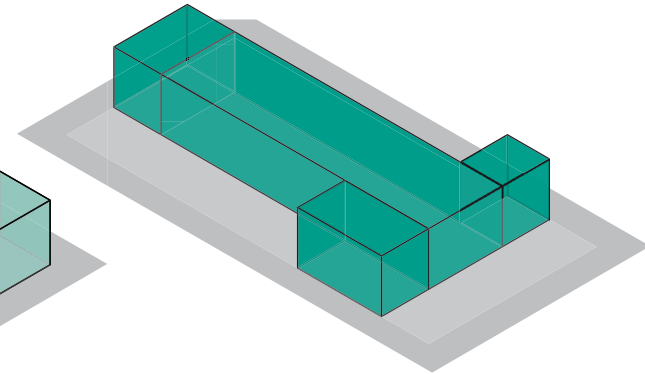
BUILDING SYSTEM



INDIVIDUAL UNIT BLOCKS



COMMON SPACE



The building is organised in three blocks which accommodate individual units. The units follow a modular system of fit-outs. The first part faces the park while the second transversal block frames the building towards the neighbouring public building structure. The last section defines the front to the street in relation to the opposite housing rows. These

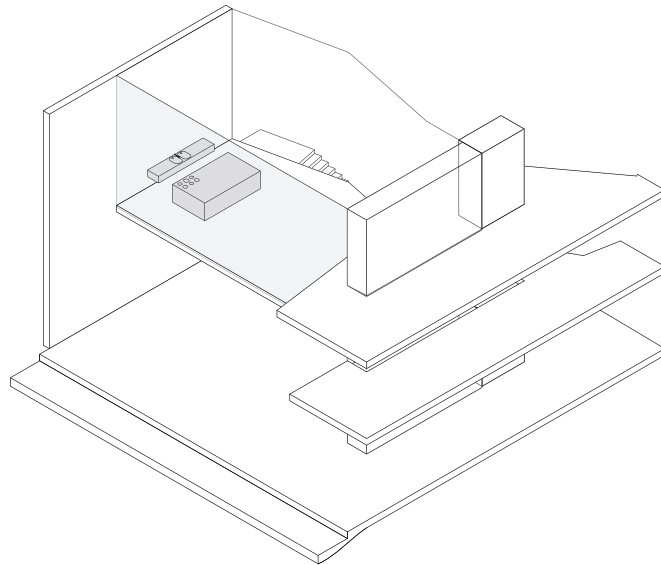
three blocks are connected by common spaces which are not defined by a programme but are open to be appropriated by the future residents and passers-by. The common space can be differentiated in three volumes set between the individual unit blocks, and the central courtyard marking the fourth common space. The latter one is composed of galleries and

staircases connecting the individual unit blocks and the common space areas. The three volumes are set in strategic locations. The biggest one is situated towards the park to enable an open exchange with this valuable green space. The second one is placed in the opposite block to enable a direct connection between the park and the Rotenhäuser Damm through

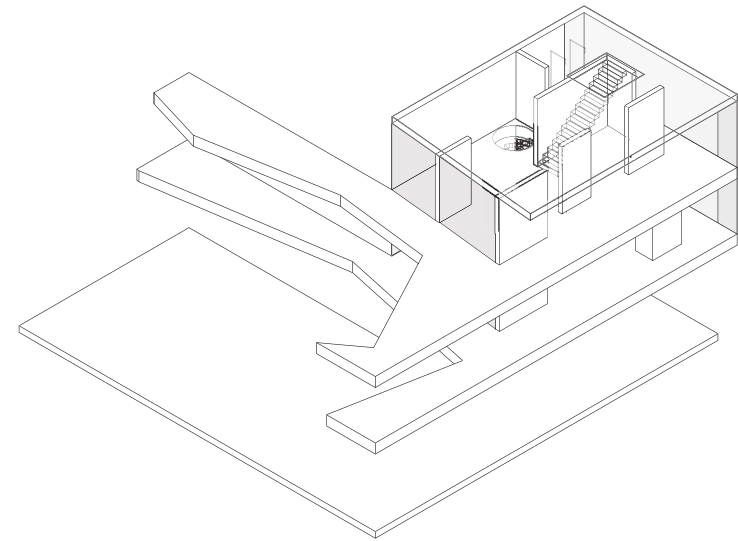
the building complex and represents an interface with to the public buildings along the street. The third volume occupies the complete northern part of the between the individual blocks to break the facades towards the single family houses.

COMMON SPACES

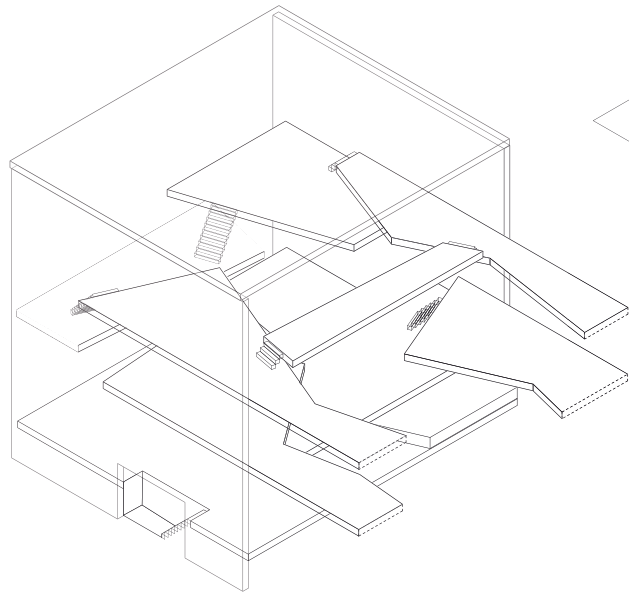
VOLUME ONE



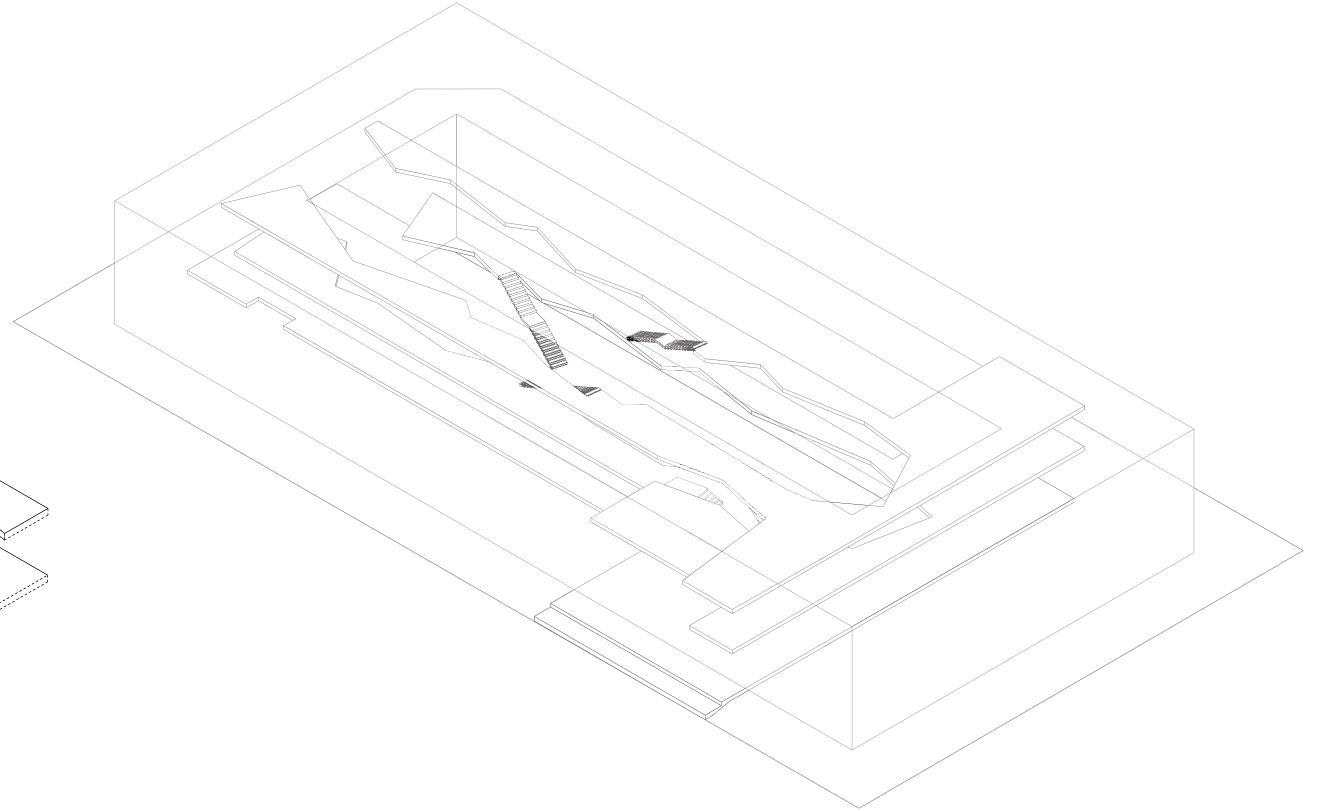
VOLUME TWO



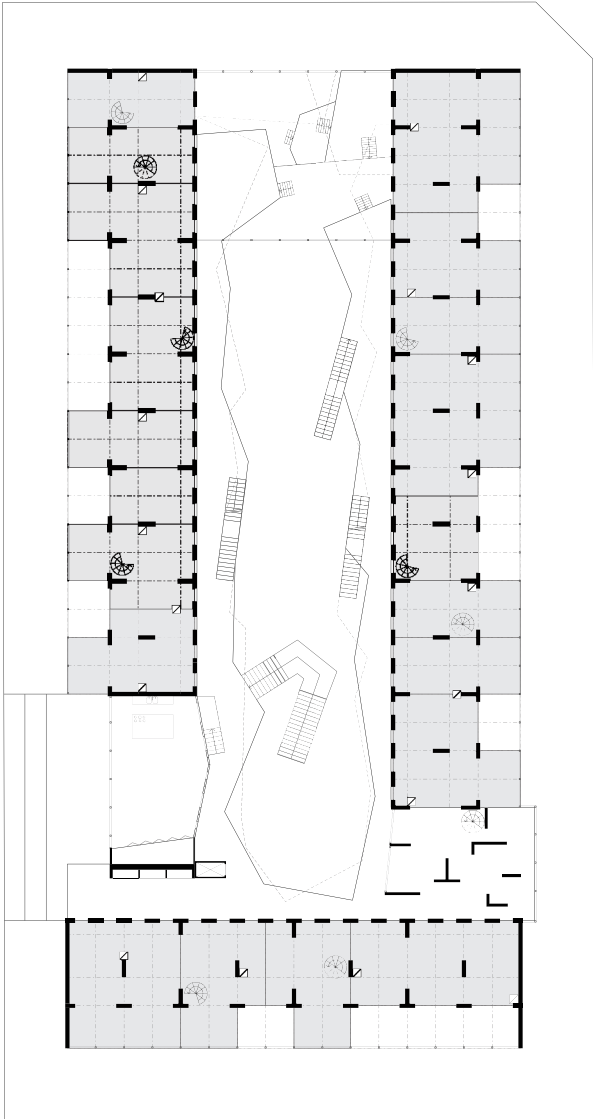
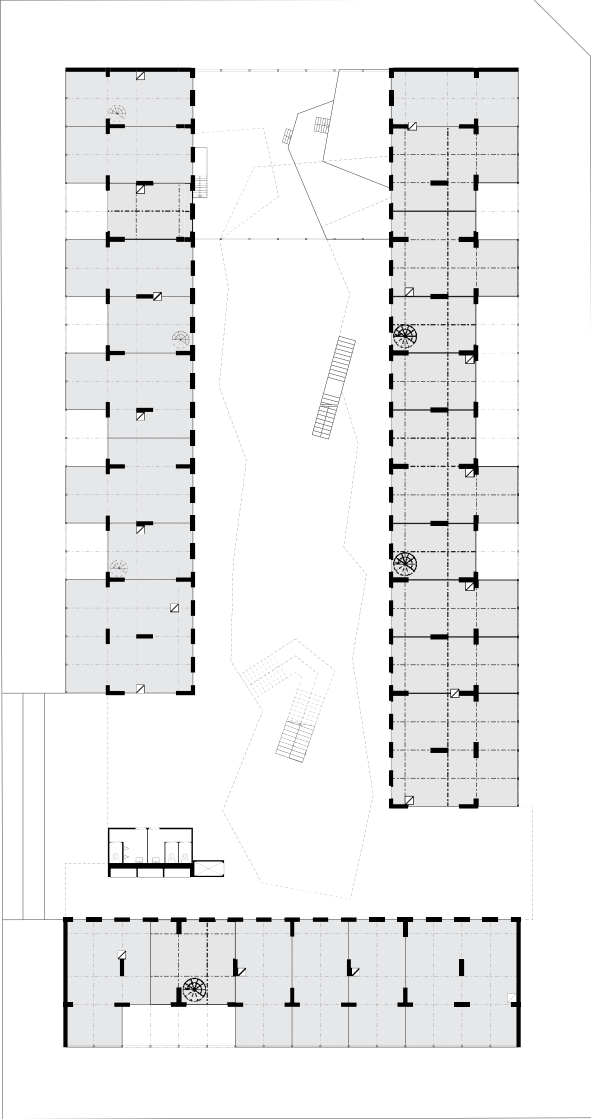
VOLUME THREE

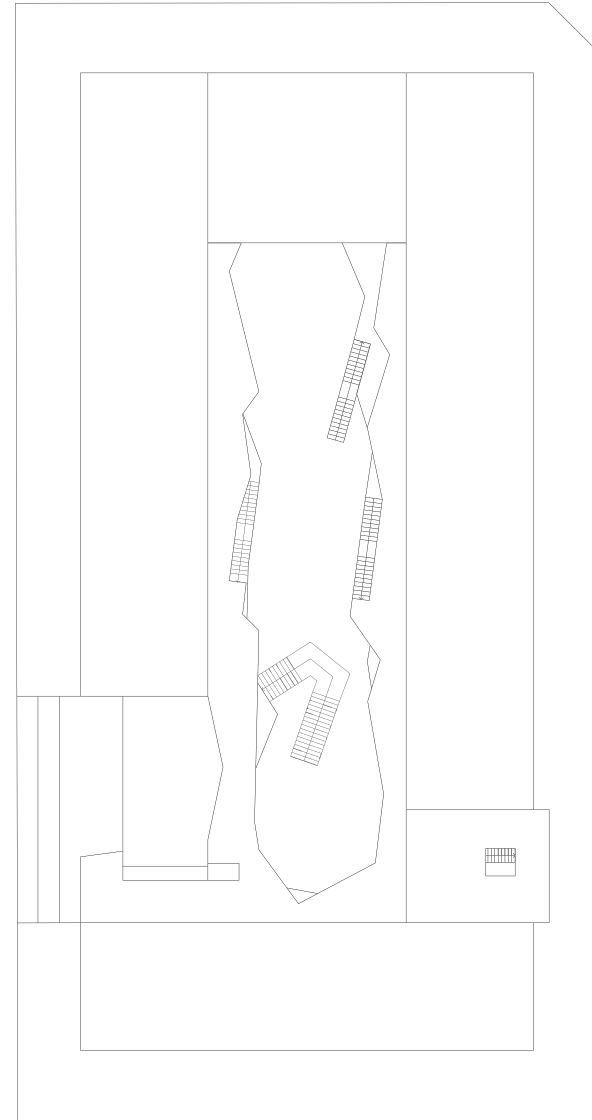
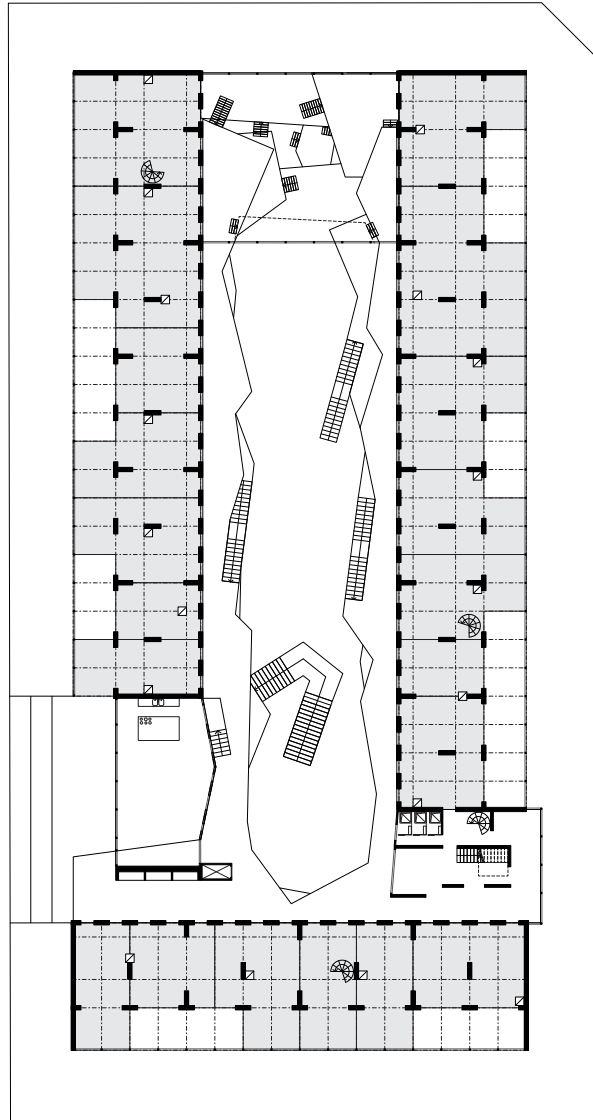


VOLUME FOUR



FLOOR PLANS





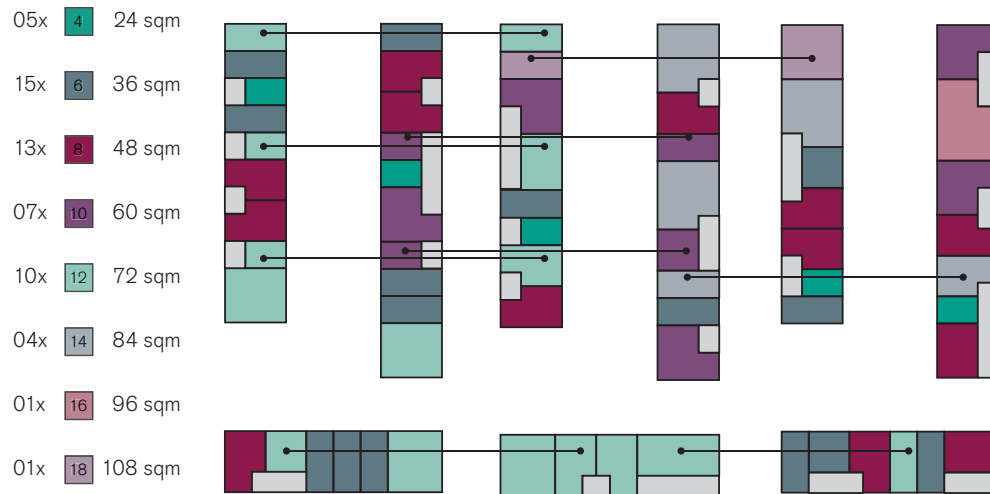
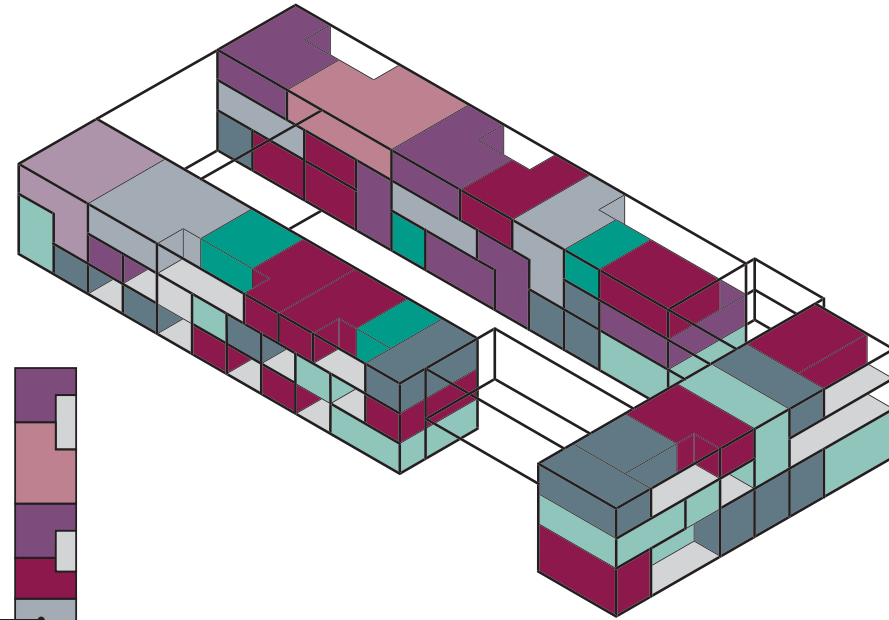
»(...) it is necessary to provide and create minimal structures that do not treat situations in such a way to close them, but to open or make them possible. Derived from this is the demand that design treats relational space topologically, thus producing an approach that might be described as diagrammatics, as catalog-like work in a series. The focus is on creating (meta-) forms as open frames that cause structures to function, thus opening new connections for using urban space and creating structural bases for urban opportunities.«

Dell - 2011

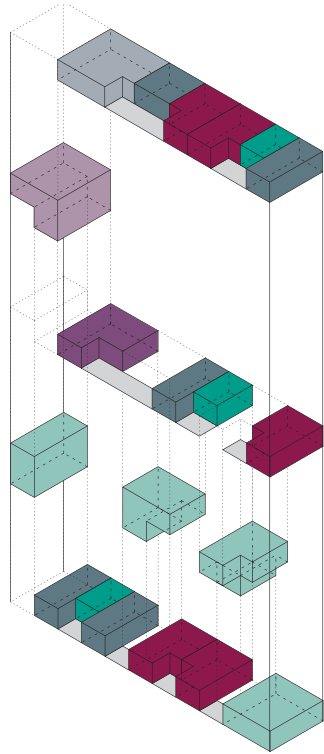
INDIVIDUAL UNIT BLOCKS

»... Good architectural space allows human beings to settle and congregate in many ways for many purposes.«

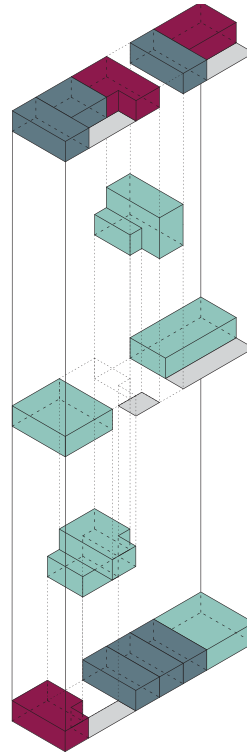
Habracken - 1996



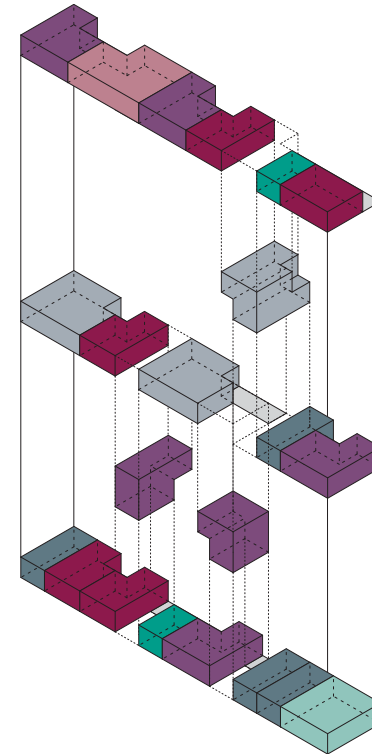
BLOCK ONE



BLOCK TWO



BLOCK THREE

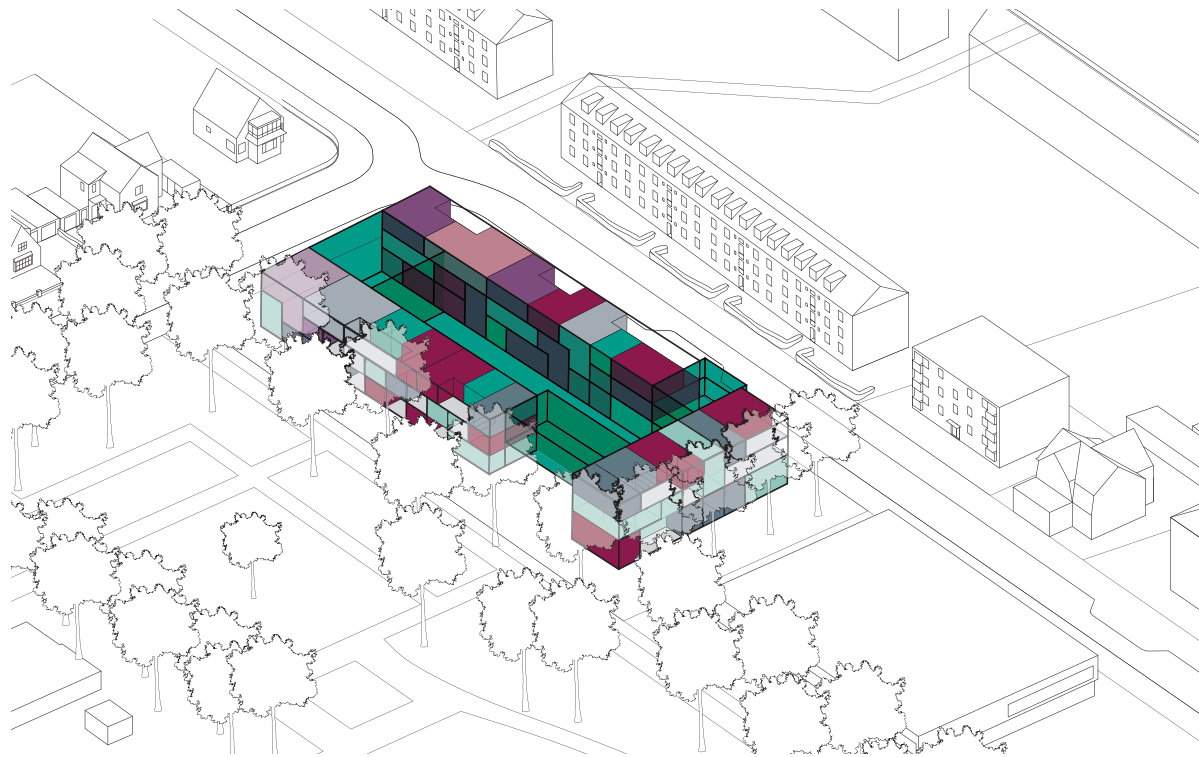


INHABITING SCENARIOS

»Architektur (verstehen) als Ort alltäglicher Handlungen und Verhandlungen und (...) (Entwicklung aneignungsoffene(r) Räume, die vielfältige Interpretationen und unterschiedliche Gebrauchsmuster zu lassen.«

Fezer/Ifau – 2001





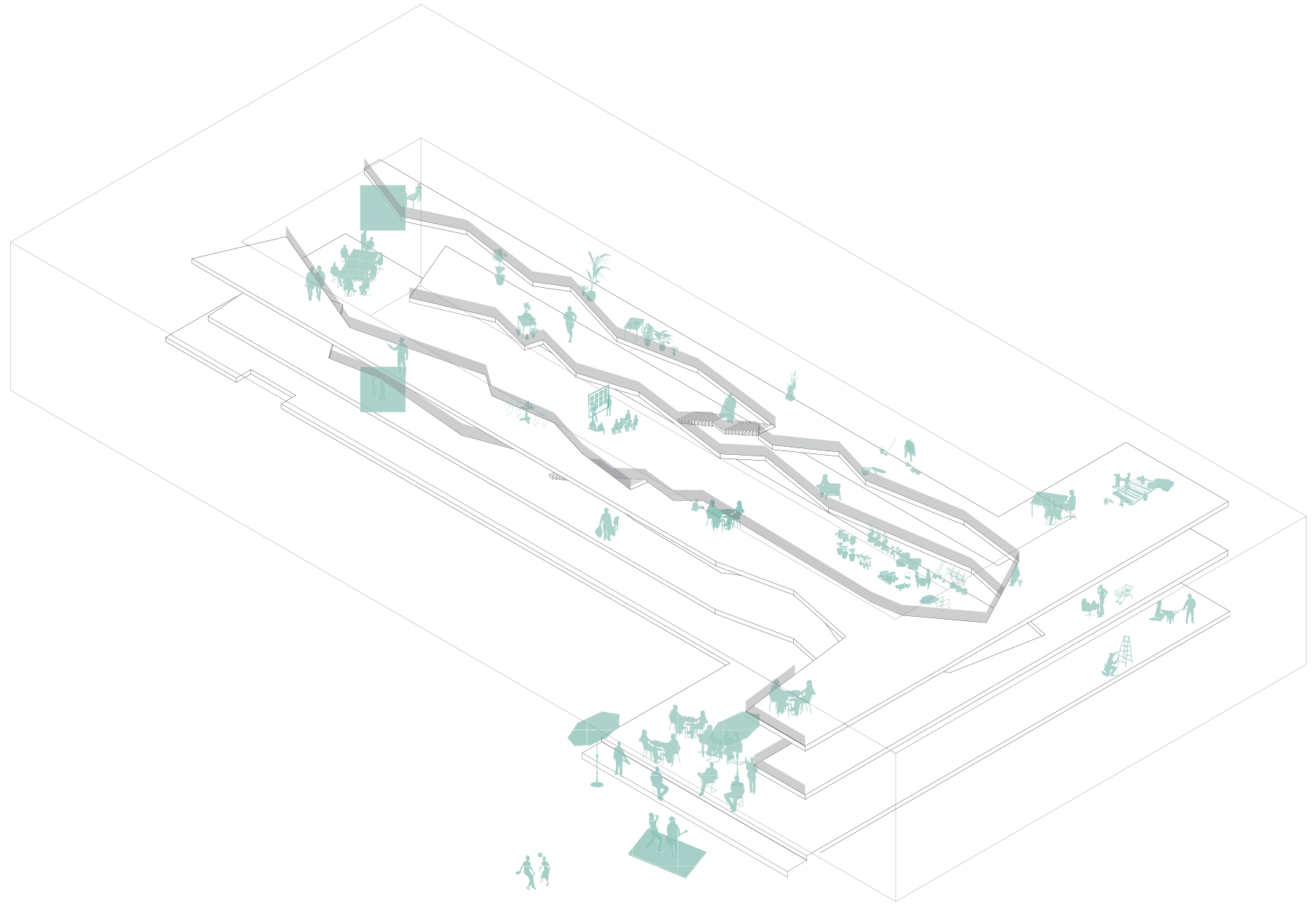
At this point the building layout is set with the primary structure and its fill-ins for the individual units as well as the determined collectively used spaces within the building system. In this stage the construction can still host any actor and any programme.

The individual unit typologies and the open building system allow a participatory process on the level of fit-outing each unit according to the wishes of the new residents. Once settled, the collective spaces offer undetermined open spaces which can be appropriated by the residents as well as neighbours or other external guests. The following scenarios visualise the variety and inherent possibilities of inhabiting the proposed structure. Three different points of focus highlight specific themes such as appropriation and the superposition of activities & programmes to emphasise the benefits of collective and undetermined spaces within the building structure.



»Der Raum ist ein Geflecht von beweglichen Elementen. Er ist gewissermaßen von der Gesamtheit der Bewegungen erfüllt, die sich in ihm entfalten. Er ist also ein Resultat aus Aktivitäten, die ihm eine Richtung geben, ihn verzeitlichen und ihn dahin bringen, als eine mehrdeutige Einheit von Konfliktprogrammen und das uns vertraglichen Übereinkünften funktioniert. (...) Insgesamt ist der Raum ein Ort, mit dem man etwas macht.«

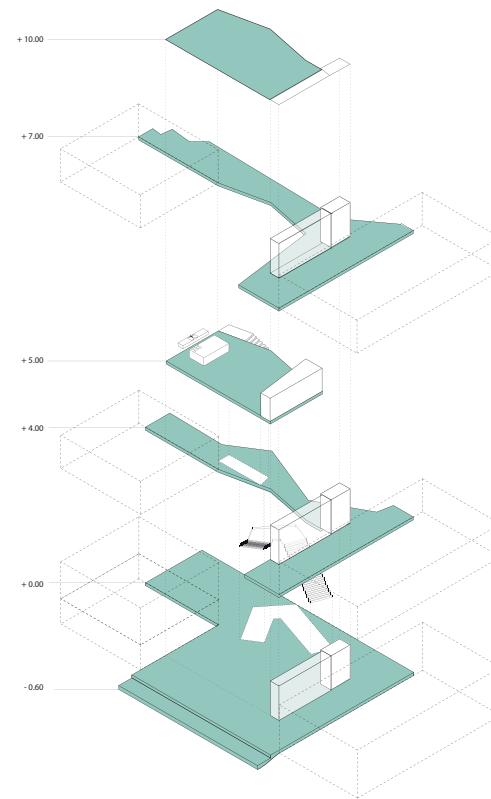
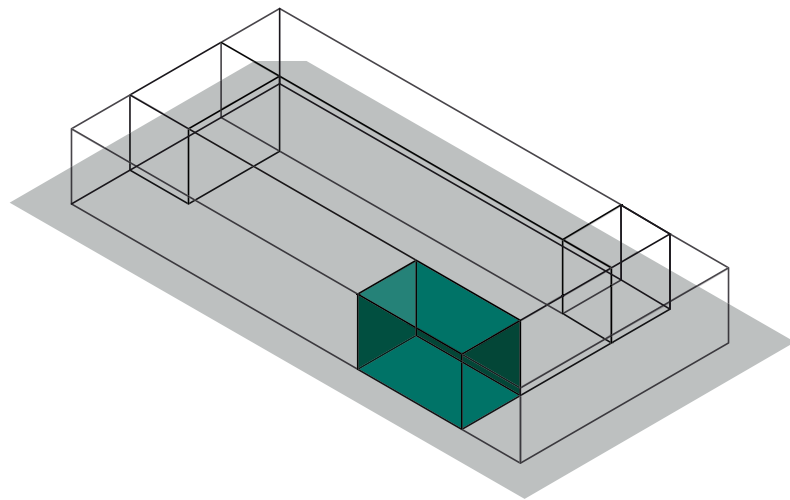
De Certeau - 1988



VOLUME ONE

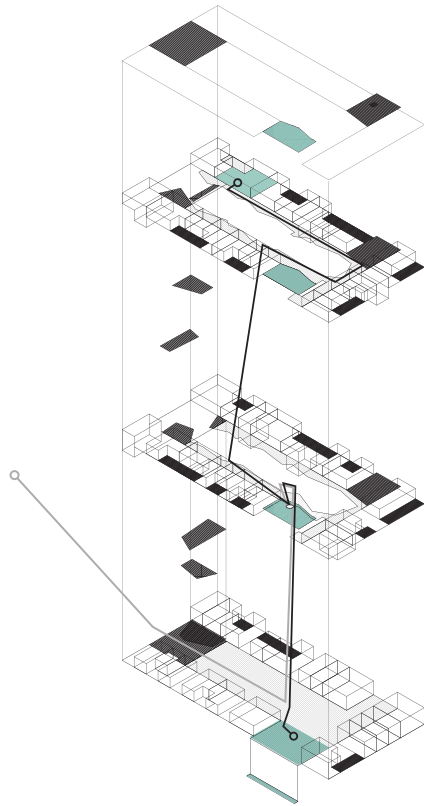
PARK TERRACE & EVENTS SPACE





The first focal point is the common space next to the park, characterised by its vast opening on the ground floor. This collective domain is designed as extended terrace towards the park and functions as entrance to the building complex and as passage towards the street. The upper level is developed as big events space with an implemented kitchen and therefore is classified as collective zone, accessible to all the residents as well as authorised external actors. Hence the emphasis on possible networks and constellations evolving from the inherent opportunities of this events space. One of the main elements of this project is the strong community aspect based on the open participation process and the concept of synergy between minimal individual units and generous shared spaces. The events space therefore plays an important role in enhancing the community spirit as it can be used for residents' meetings and events.

FLAT SHARE DINNER



flat share residents
& friends



leisure



kitchen



seating



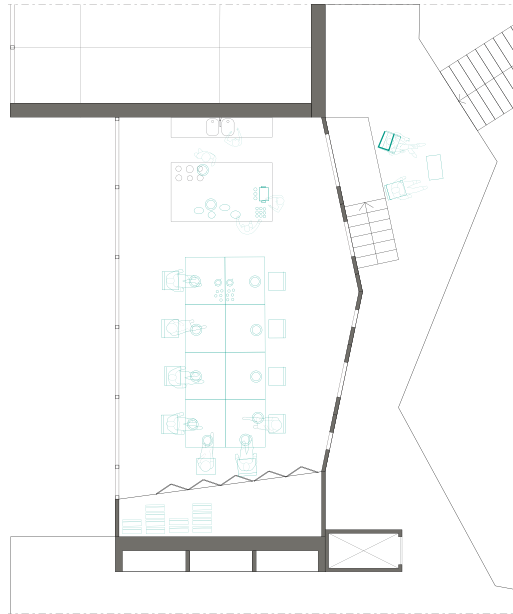
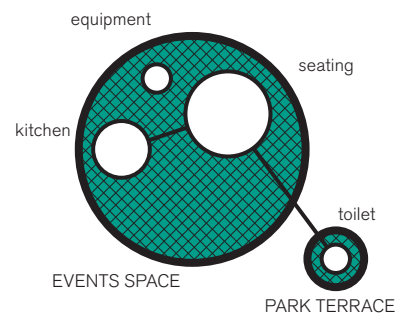
toilet



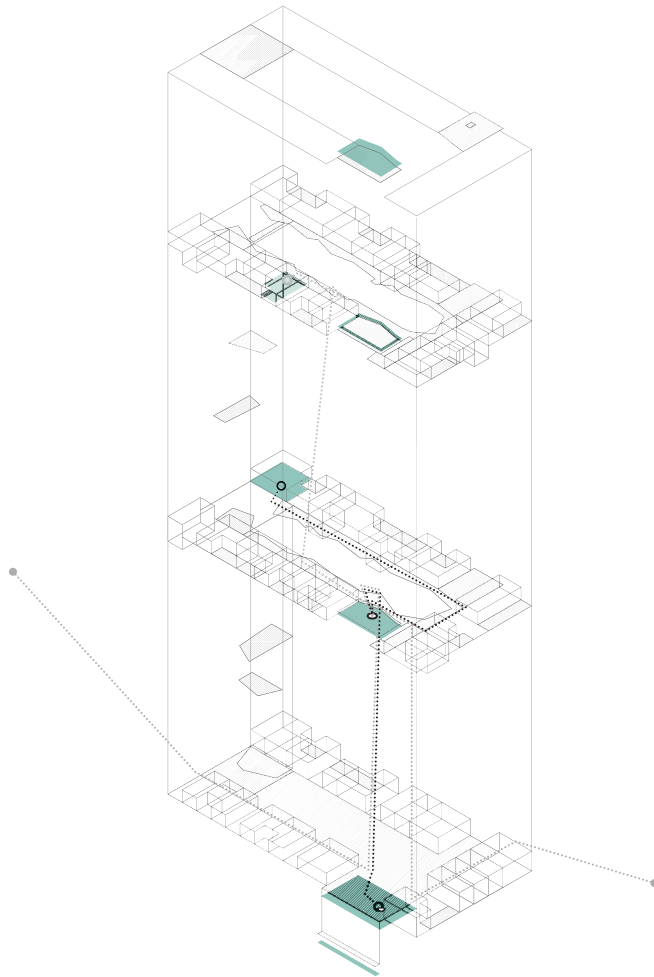
equipment



Besides big community celebrations the events space stands open for smaller happenings as well. In the following example a flat share collective uses the events space for a dinner with their friends as their individual unit has a limited amount of space.



CO-WORKING TEAM EVENT



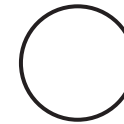
co-workingmembers



leisure



event



buffet



equipment



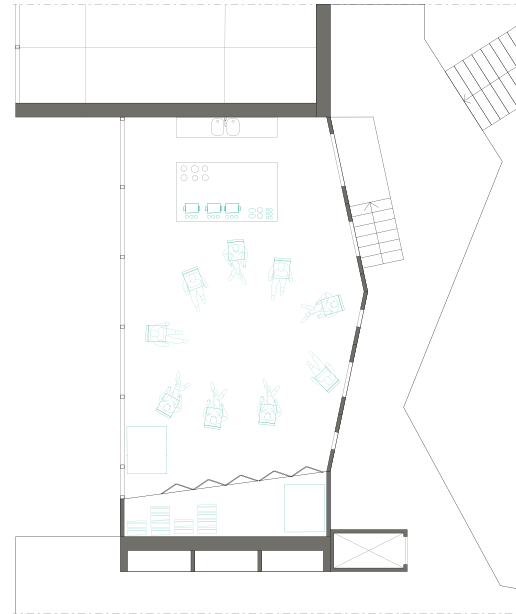
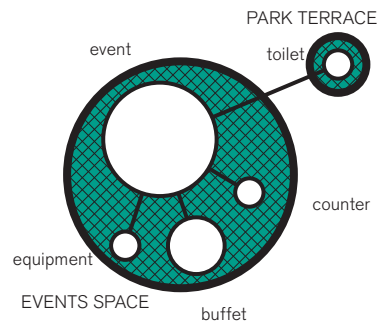
counter



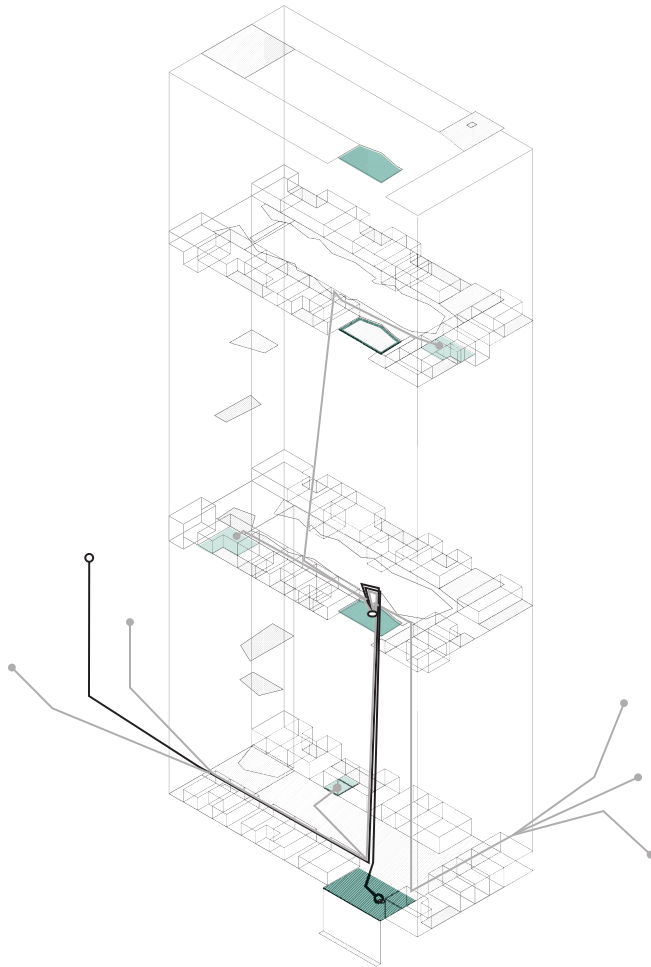
toilet



In one of the bigger units in the northern part of the third block a co-working space has opened and organises membership cooking events as special offer. Therefore the events space is booked in advance and an external cook is invited to guide the guests in cooking a five course meal. In this event only members of the co working space are participating.



EXTERNAL EVENTS



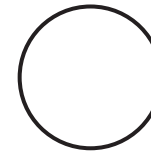
residents & guests



leisure



audience



screen



equipment



counter



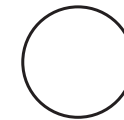
bar



toilet



audience



musicians



equipment



counter



bar



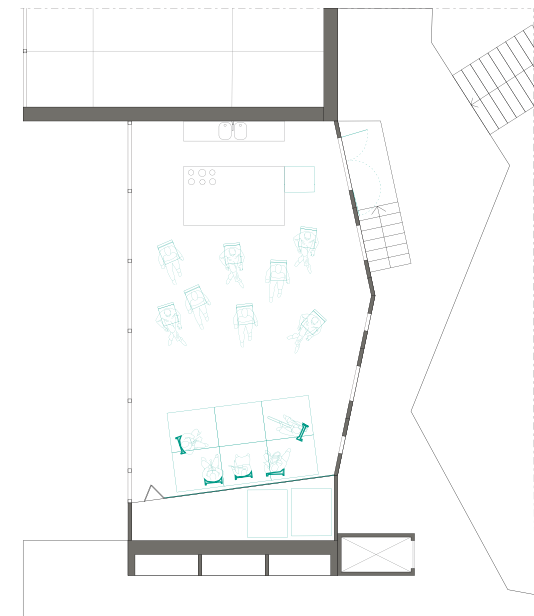
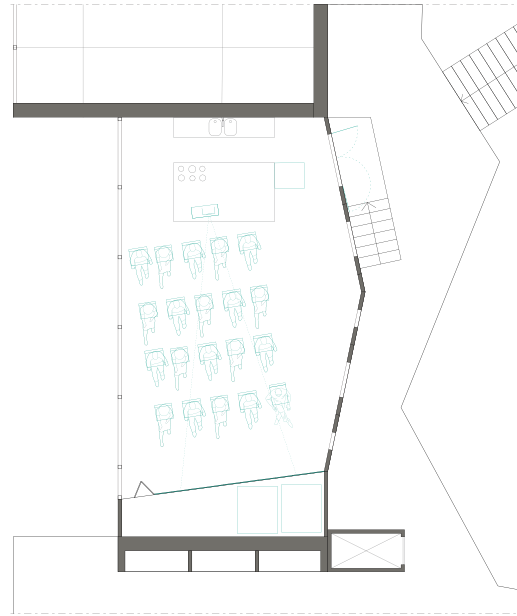
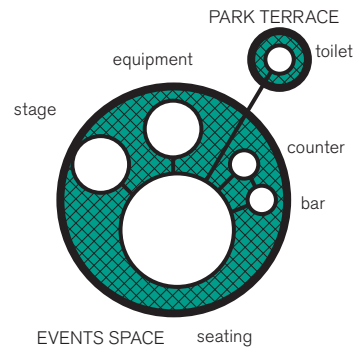
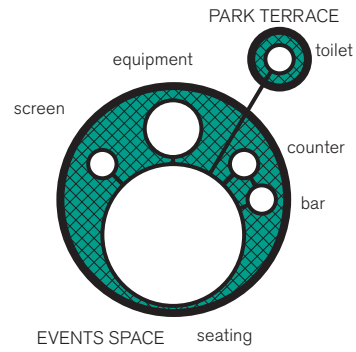
toilet

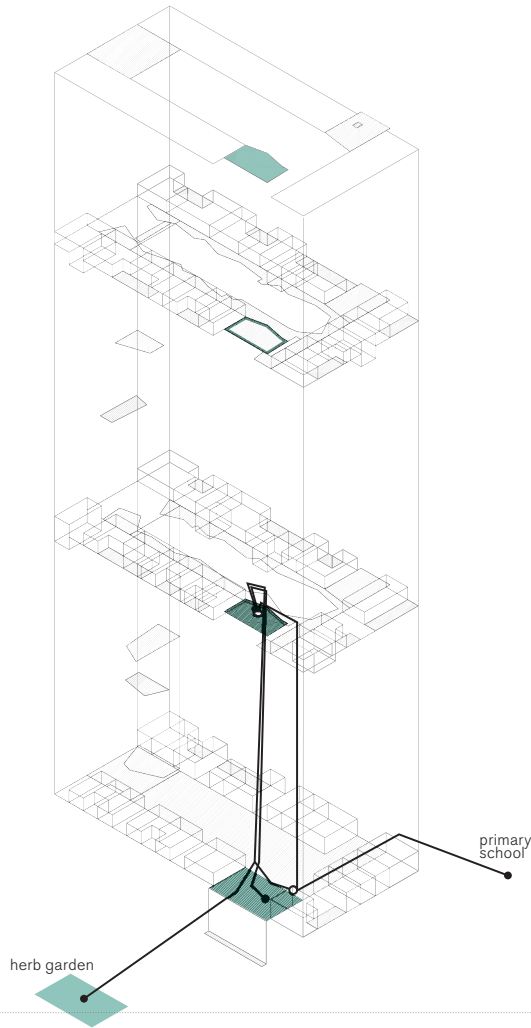


Besides the residents this space is accessible to external actors as well. Local initiatives and associations can book this space for specific events such as movie screening, as shown in this scenario.

MOVIE SCREENING

CONCERT





EDUCATION

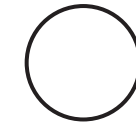
teacher & pupils



education



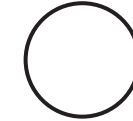
herb & veggie garden preparation



kitchen



consumption

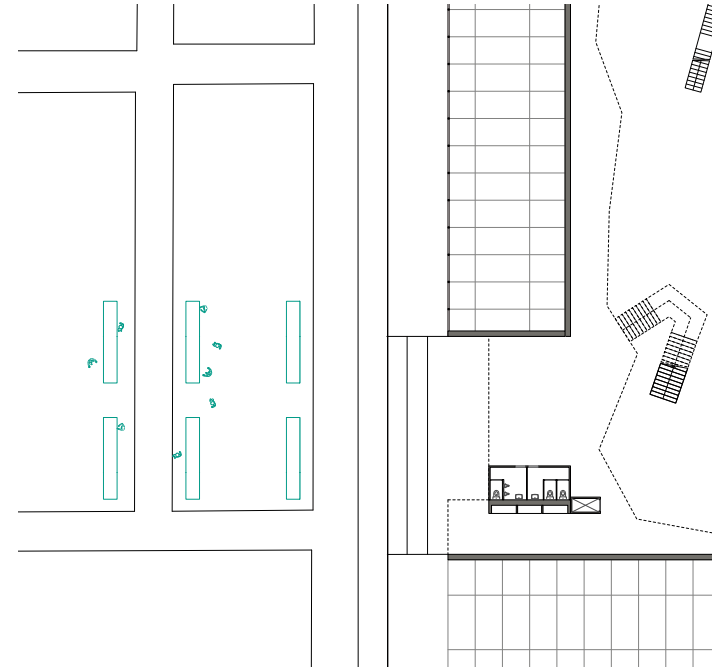
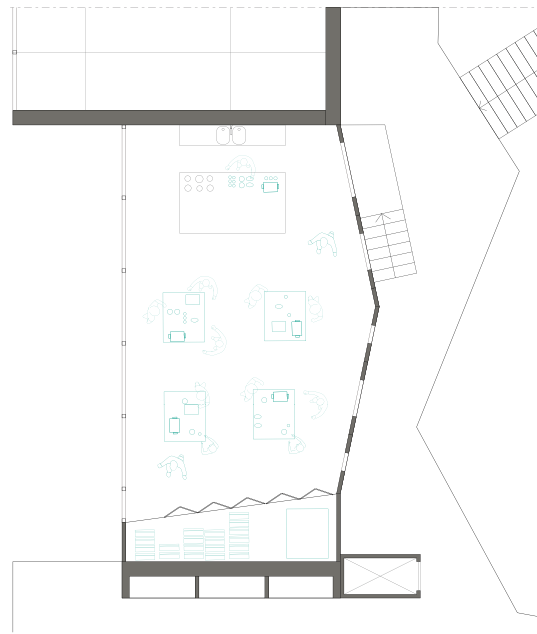
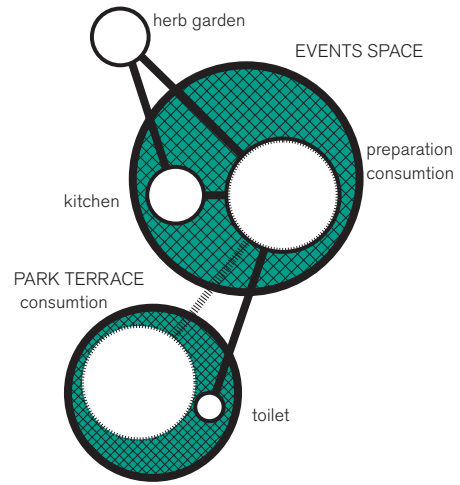


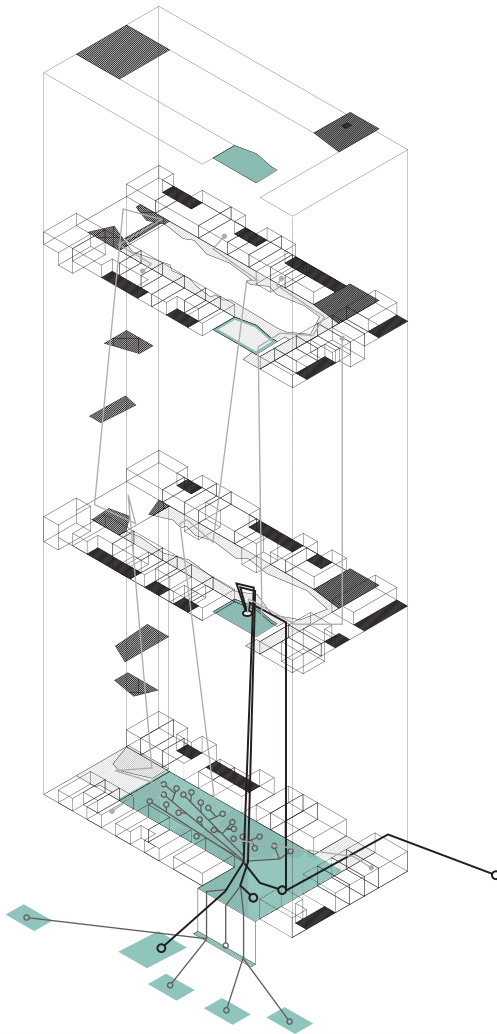
toilet



Furthermore, cooperations with local educational institutions can establish a permanent use of this space. This example illustrates a collaboration with the neighbouring school. The children could build up a herb garden in the park which is directly linked to the events space and a cooking class could take advantage of this close spatial combination. A contract with the school can allow this class to use the kitchen once a week for practical lessons about nature and food production.

SCHOOL KITCHEN





RESIDENTS FEAST

residents & guests



leisure



bar



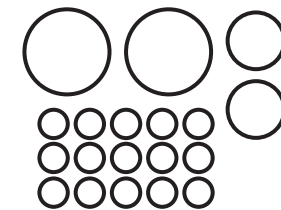
kitchen



toilet



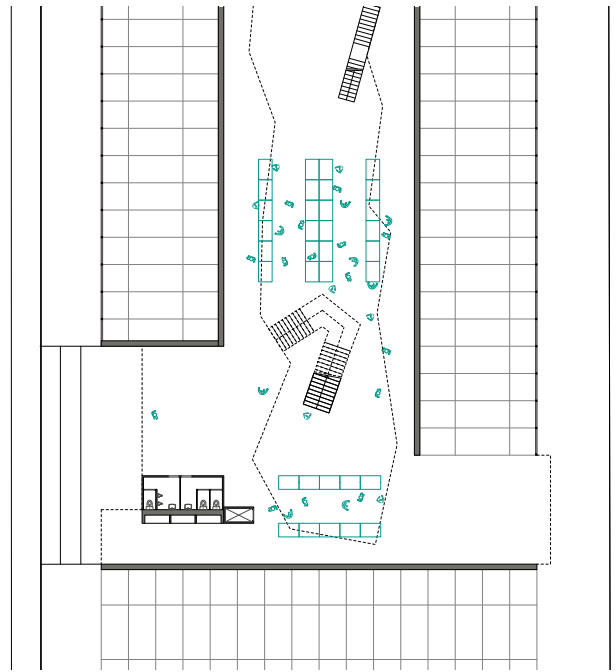
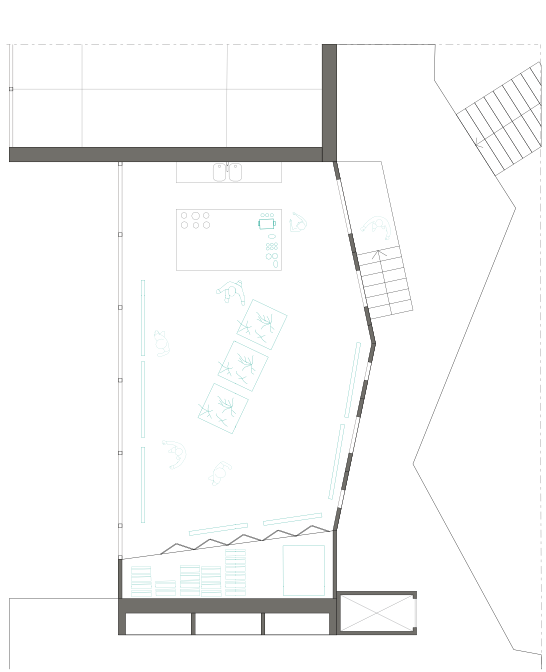
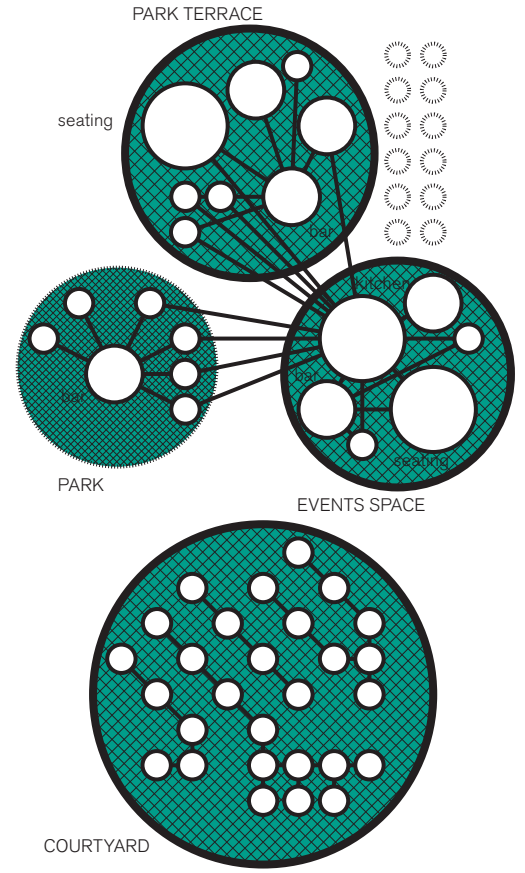
seating



flea market stands



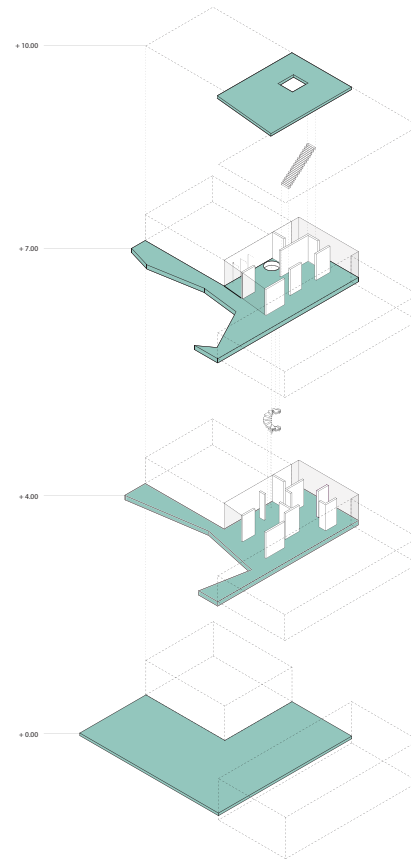
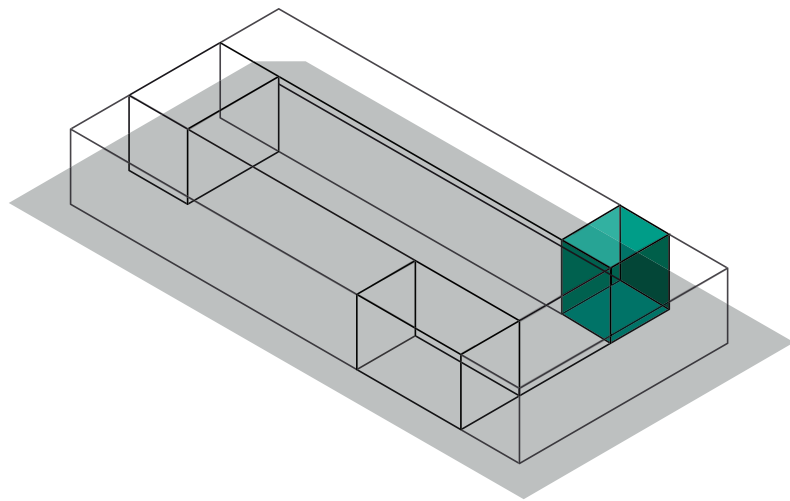
This example shows a residents feast where large parts of the common space are appropriated with the kitchen as central element. The food prepared in the collective kitchen can be offered directly in the events space which is completely opened towards the courtyard as well as to the park for this occasion. Furthermore the food can be served on the park terrace which is additionally equipped with tables and chairs as well as a temporary bar. During the whole event the courtyard hosts a flea market open to the whole neighbourhood.



VOLUME TWO

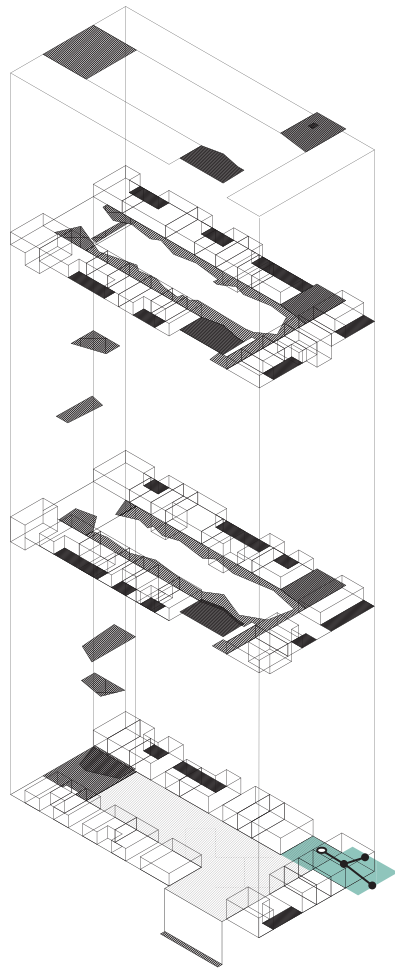
THE GATE / NICHES / ROOF TERRACE





This second part of the inhabiting scenarios is focusing on the entrance to the Rotenhäuser Damm and the two collective zones above it. The passage is designed as wide inviting entrance to the courtyard with a direct connection towards the park. The undefined area enables a variety of possible strategies to be appropriated by the adjoining units.

The two upper floors are characterised by freely arranged wall segments which divide the floor area into spaces of different sizes. Those can be kept open or easily filled according to specific programmes. Furthermore a shower entity and a staircase to the roof terrace open up the possibilities of implementing functions and allowing a variety of programmes for the units directly joined to it.



MANUFACTURING & LIVING

migrant family enterprise



dwelling



working



leisure



kitchen



bathroom



storage



counter



living room



toilet



work space



office



display

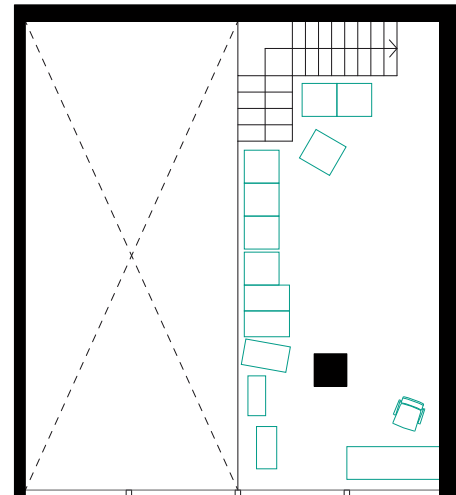
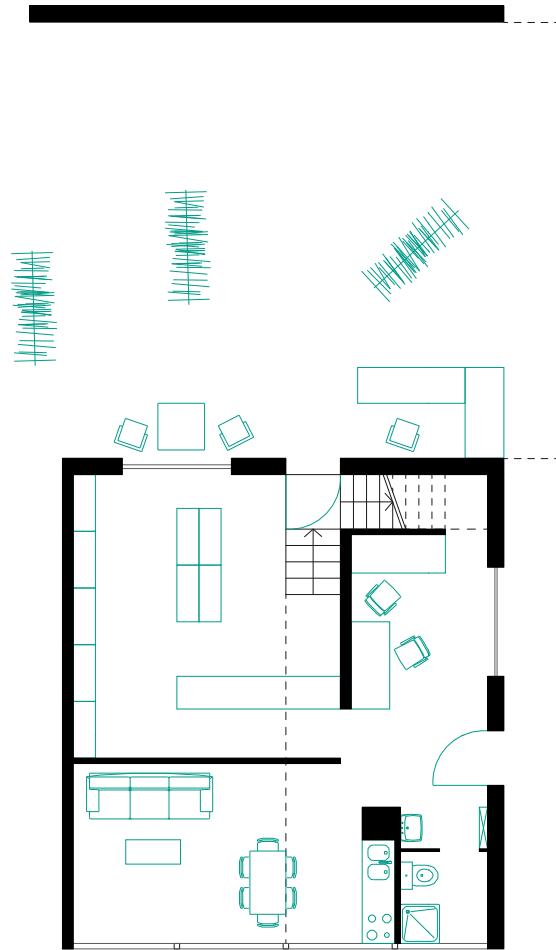
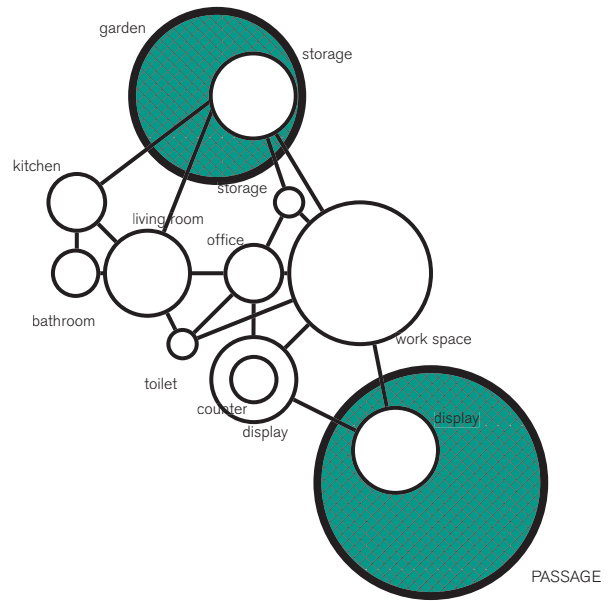


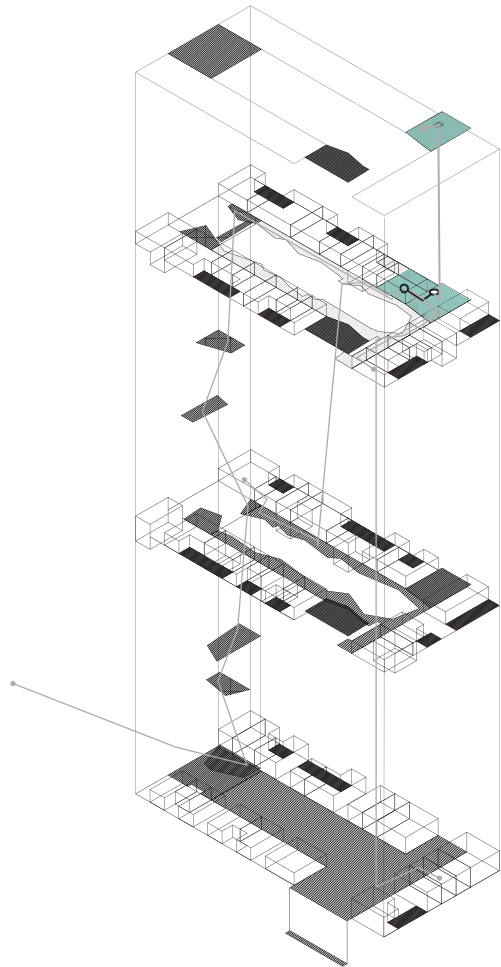
garden



The ground floor unit at the street side of Block Two is taken over by a young migrant enterprise which is manufacturing traditional items. In the tradition of migrant family economies the back part of the unit is functioning as private living room and meeting space for family members while the front part serves as production and storage zone. The height

of 4.80 meters allows the family to build on their own office and storage space on a second level. Due to its location the unit can receive deliveries directly from the street. Moreover, the public passage to the courtyard provides a potential space for products display. Over the time the unit is extended to the garden area to free more space for the production.

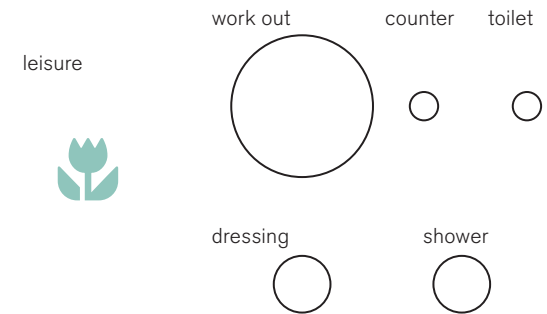


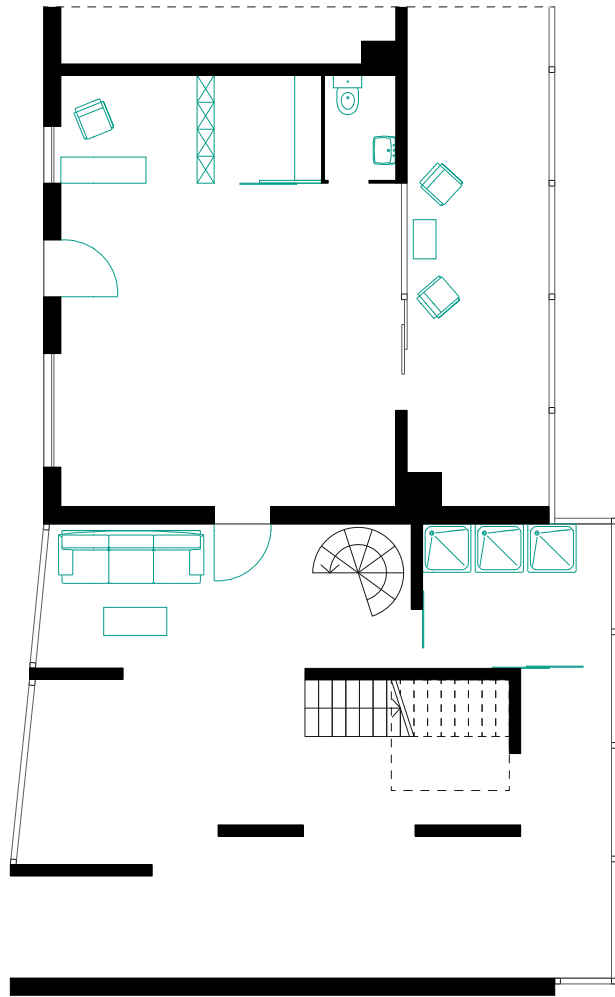
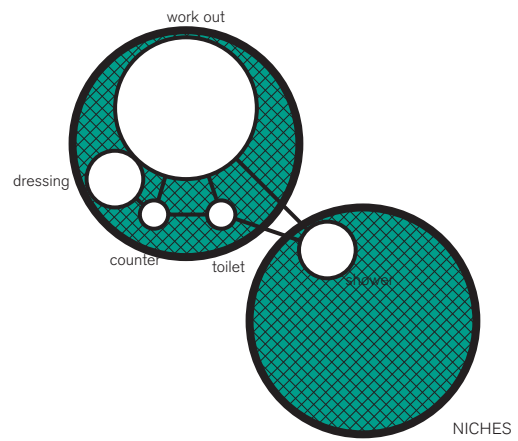


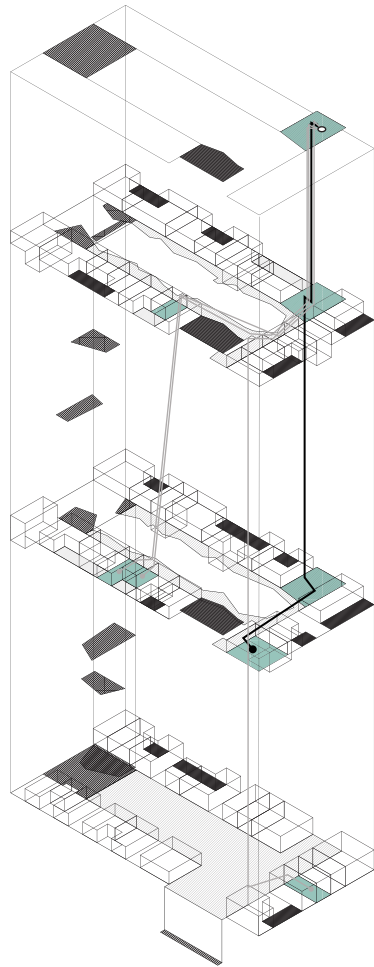
THE GYM

Based on a decision by the residents, the unit adjoining the collective zone on the third floor is finalised as recreation unit with gym facilities. The shower entities within the collective zone are spatially integrated in the gym but still accessible. The running costs for this gym unit are divided between all members including both residents (dwelling as well as working), and neighbours. Furthermore the shower facilities are used by some actors who are living in a different part of Hamburg and cycling each morning to their workplace in the building.

residents & neighbours







ARTIST COLLECTIVE & SAUNA

A small artist collective moves in to one big unit on the first floor of Block Two. As they rent the unit in a shell state they build up minimal sleeping entities in the open space of the unit which is used as atelier and living room. The collective asked for permission to build a small DIY sauna on the roof terrace as an artistic intervention. The sauna is accessible for all the residents and the users are free to choose between an improvised open air shower on the rooftop or the showers in the collective zone one storey underneath. In the event of typical Hamburg rainy weather, the gallery space towards the street within the niches is appropriated as a chill-out zone.

artist collective



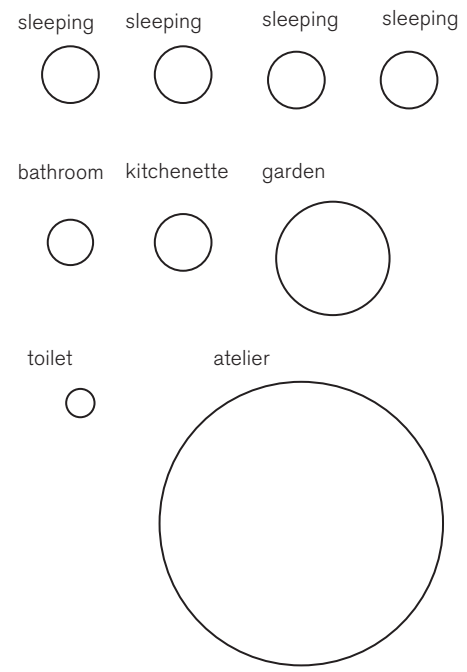
dwelling

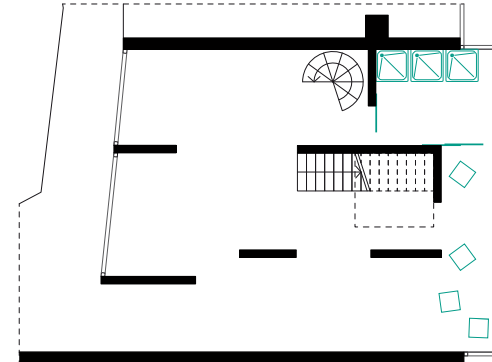
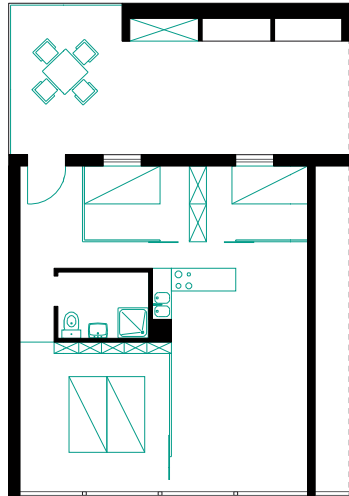
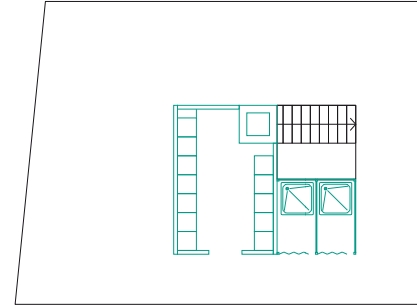
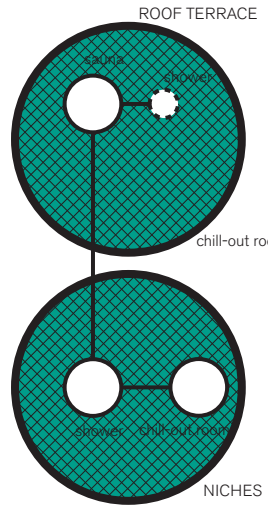
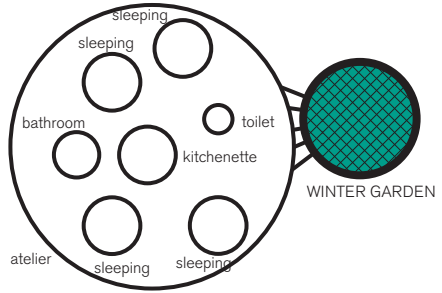


working



leisure

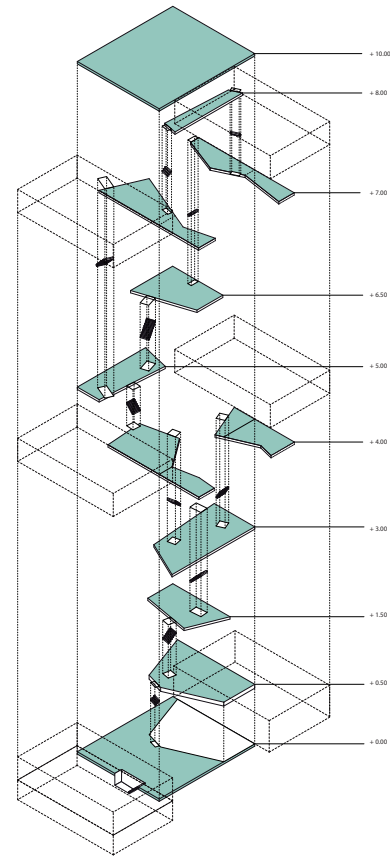
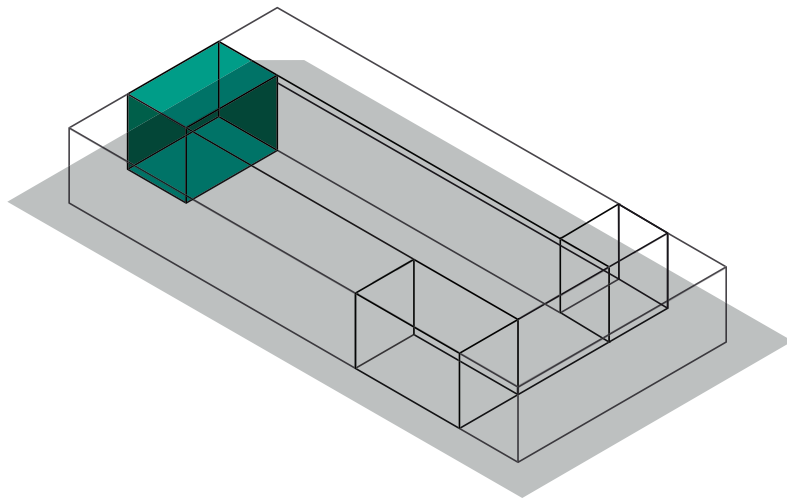




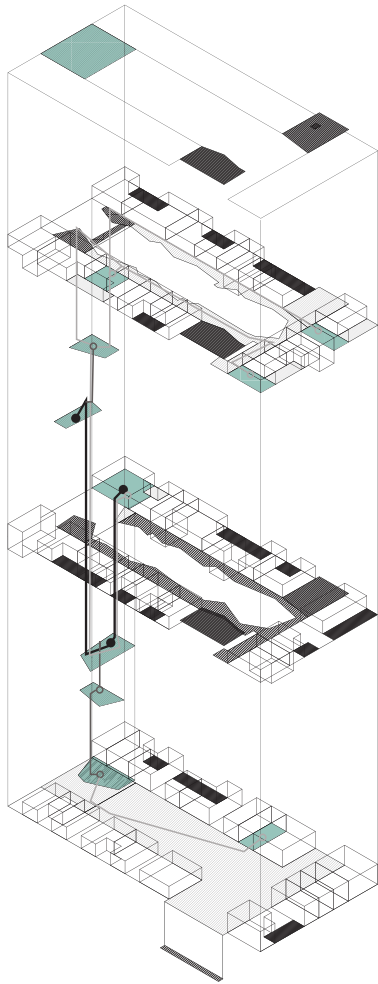
VOLUME THREE

HELIX PLATFORMS





This third common space is an open volume in which platforms of different shapes and sizes are implemented on different heights to create free standing but communicating entities. The platforms can be utilised separately or linked together by a function or temporary programme, recalling the character of the workspaces in the UdN.



CO-WORKING & CAFÉ

co-working members & residents



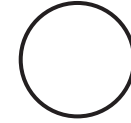
working



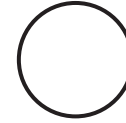
leisure



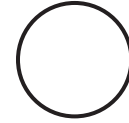
individual work



group work



recreation



technical facilities



counter meeting



toilet

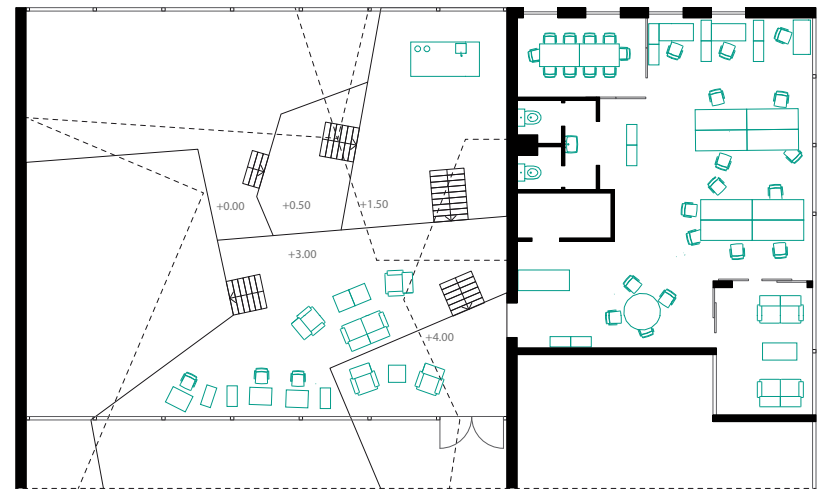
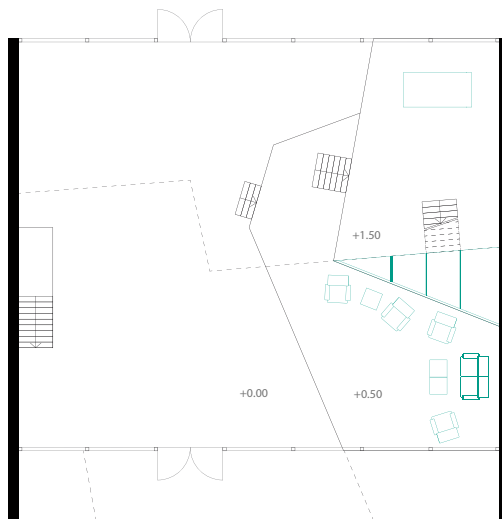
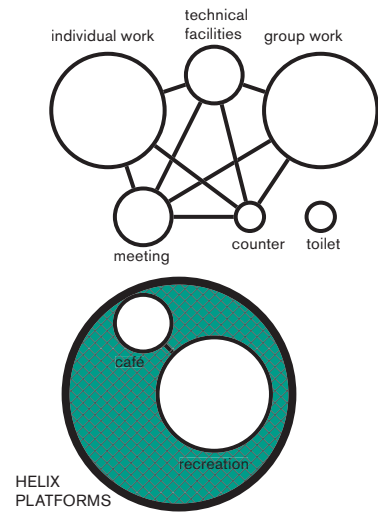


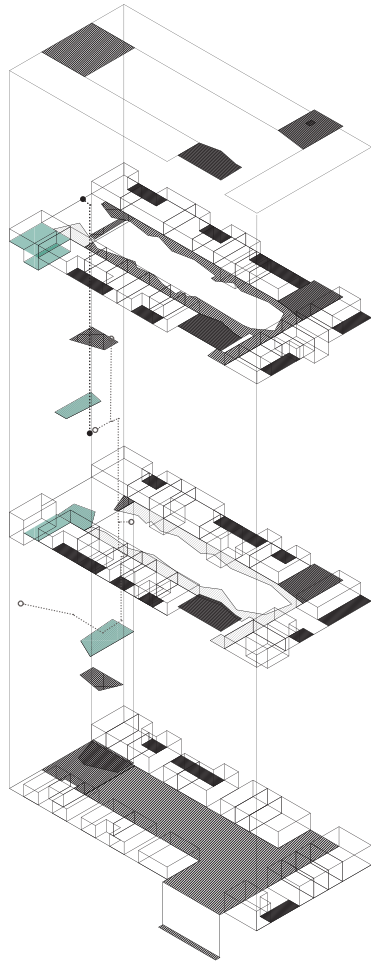
café



As the individual units are open for any programme, one of the bigger units next to the Helix Platforms is transformed into a co-working unit as it is fitted with a direct access from the collective zone. Furthermore this direct relationship allows to outsource specific temporary functions. In this case the decision was made to collaborate with the resident community to

build a small café counter and a leisure area which can be used by the co working members as well as other residents or even passers-by and thus encourage interactions between different users of the building. Moreover, the diversity of zones enables their appropriation for additional workspaces or meeting rooms.





LIVING & WORKING

resident family



dwelling



working



sleeping



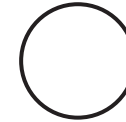
bathroom



living room



office



storage



kitchen



toilet



meeting



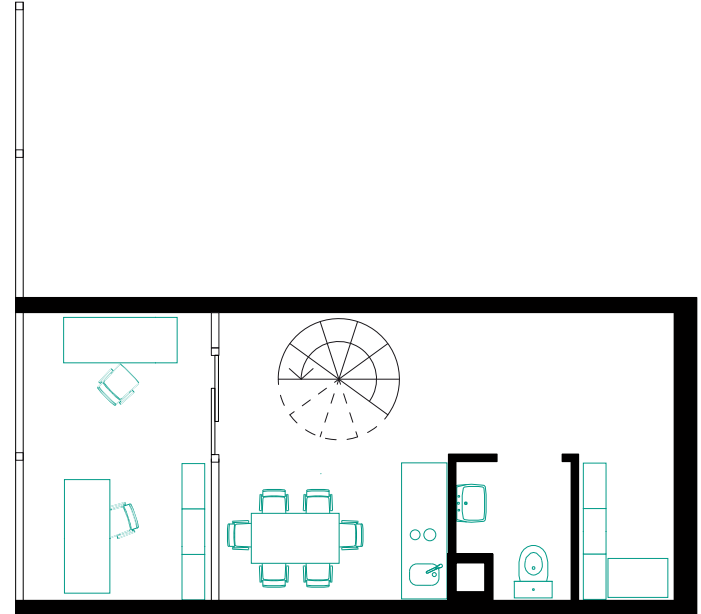
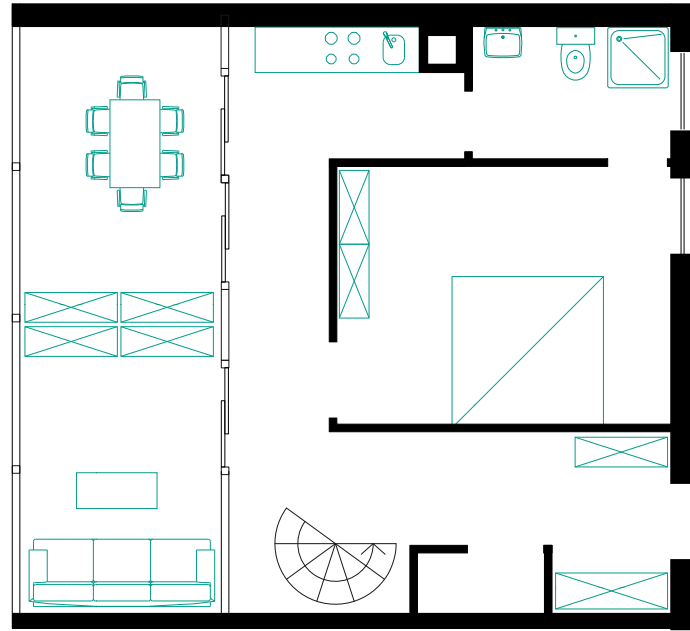
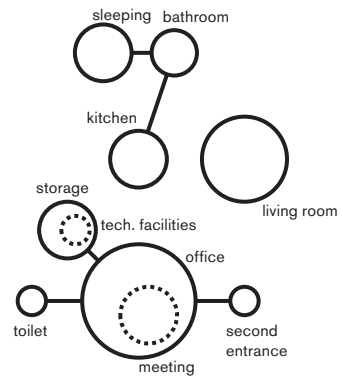
technical
facilitis

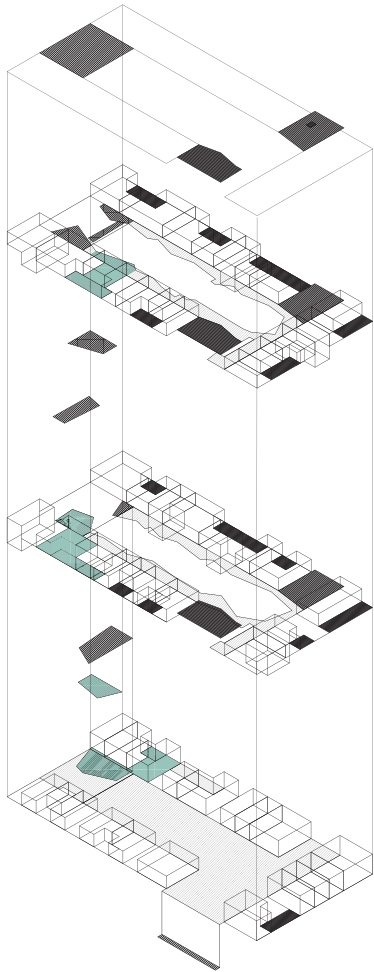


The direct access which to the collective zone generates additional quality for maisonette units which are equipped with two separated entrances. Therefore the following study examines how a maisonette unit is suitable for a lifestyle of combined working and dwelling.

The H-Type unit is inhabited by a young family who wants to start their own com-

pany. The maisonette unit provides the possibility to realise this step into independence without neglecting the family as the start-up requires more commitment and time investment. Furthermore this close relation between home and office allows them to plan their working time according to the family and not vice versa.





TRANSFORMATION OF A UNIT

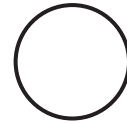
flat share



dwelling



kitchen & living



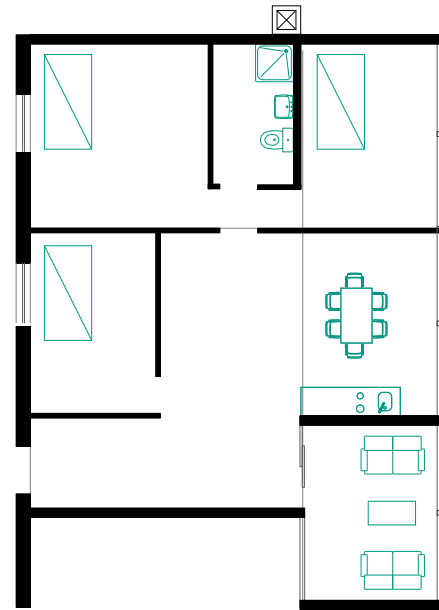
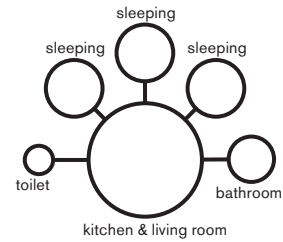
sleeping



bathroom



This scenario highlights the potential of the combination of collective spaces and individual fit-out for changes in the living conditions. At first the unit is inhabited by a flat share of three people with a big kitchen as central shared room.



couple



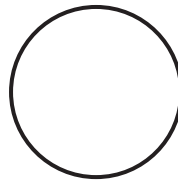
dwelling



working



living room



sleeping



bathroom



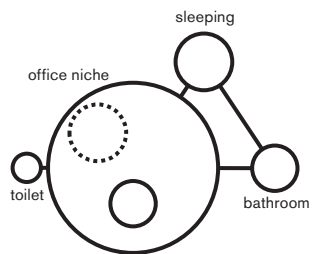
office



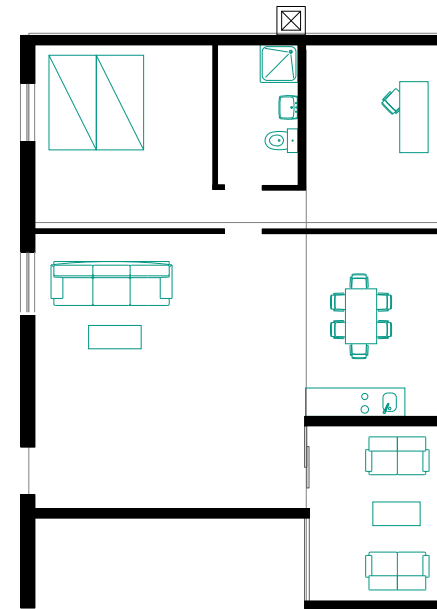
kitchen

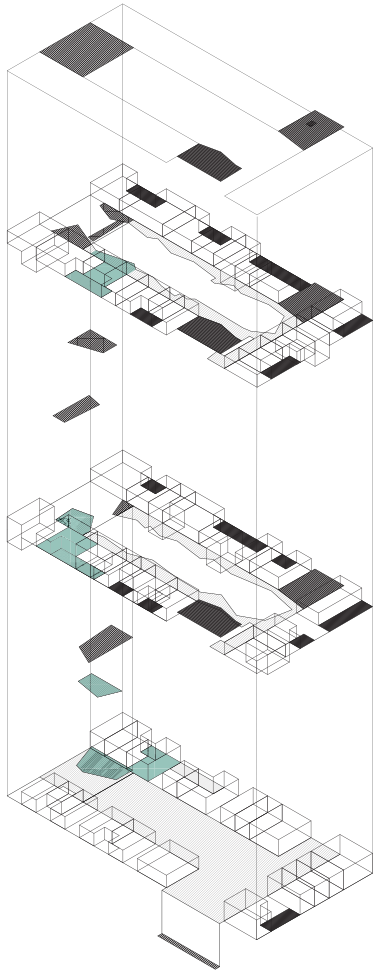


toilet



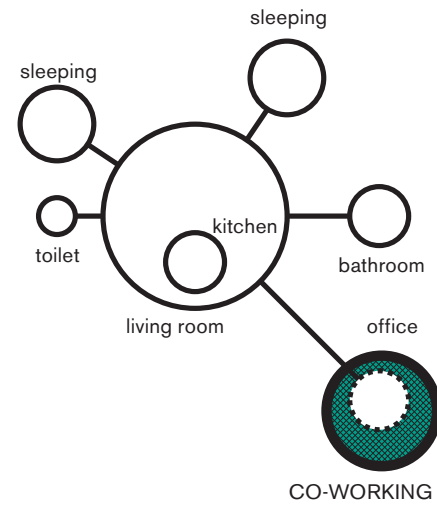
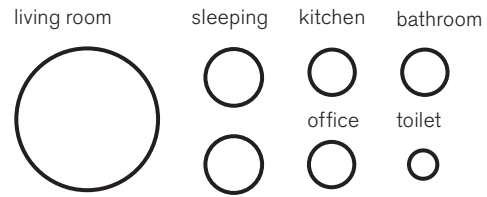
Over the time the constellation changes into a couple who takes the advantage of one empty room to combine it to a big kitchen-living room. The second one is used as home office for one partner.



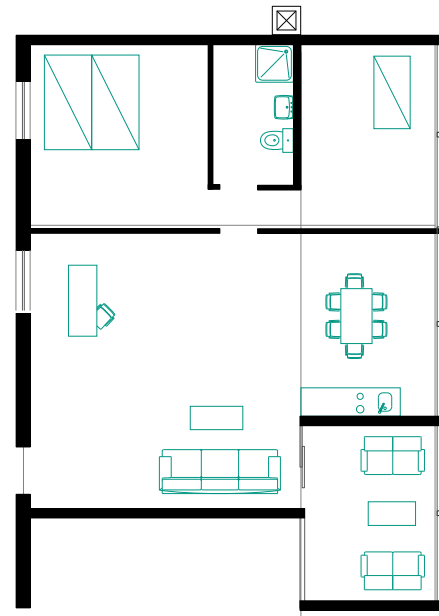


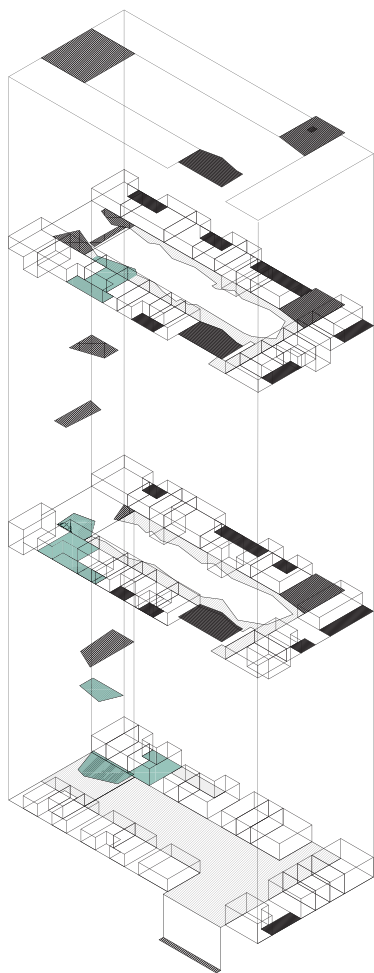
family

dwelling



In a next snapshot the couple is having child and thus the office is converted into a second sleeping room. Due to this change the working space is shifted to the existing co-working unit to stay close to the apartment.





joint venture



dwelling



working

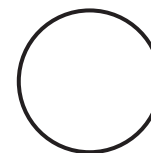


leisure



Within the co-working space the wo/man comes in contact to another resident and an external co-working member who want to rent out an individual unit out of the need for more private work and storage space. Hence these three people rent out an empty unit on the ground floor in Block Two with a direct access to the street as business entrance.

living room



sleeping



bathroom



kitchen



toilet



living room



kitchen



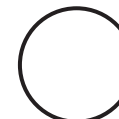
sleeping



bathroom



work



meeting



storage



kitchen

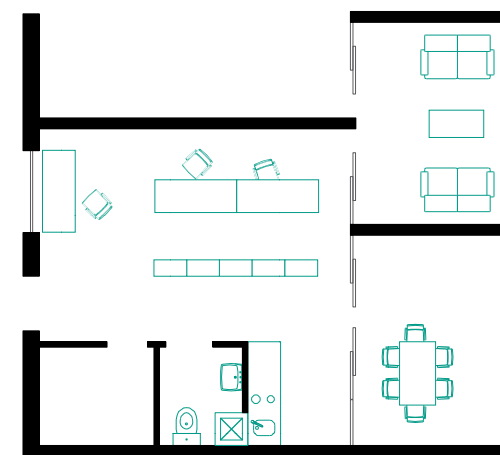
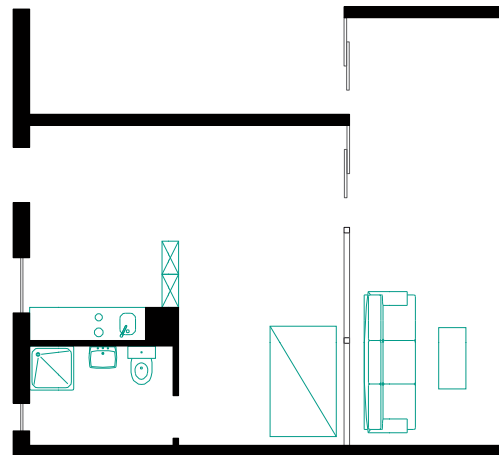
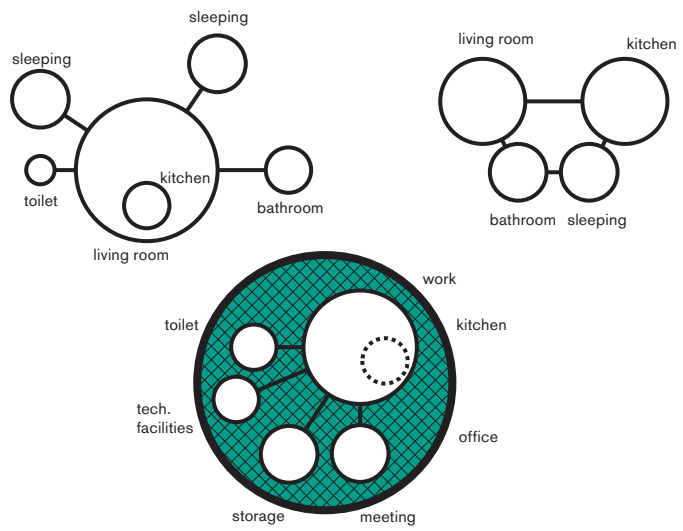


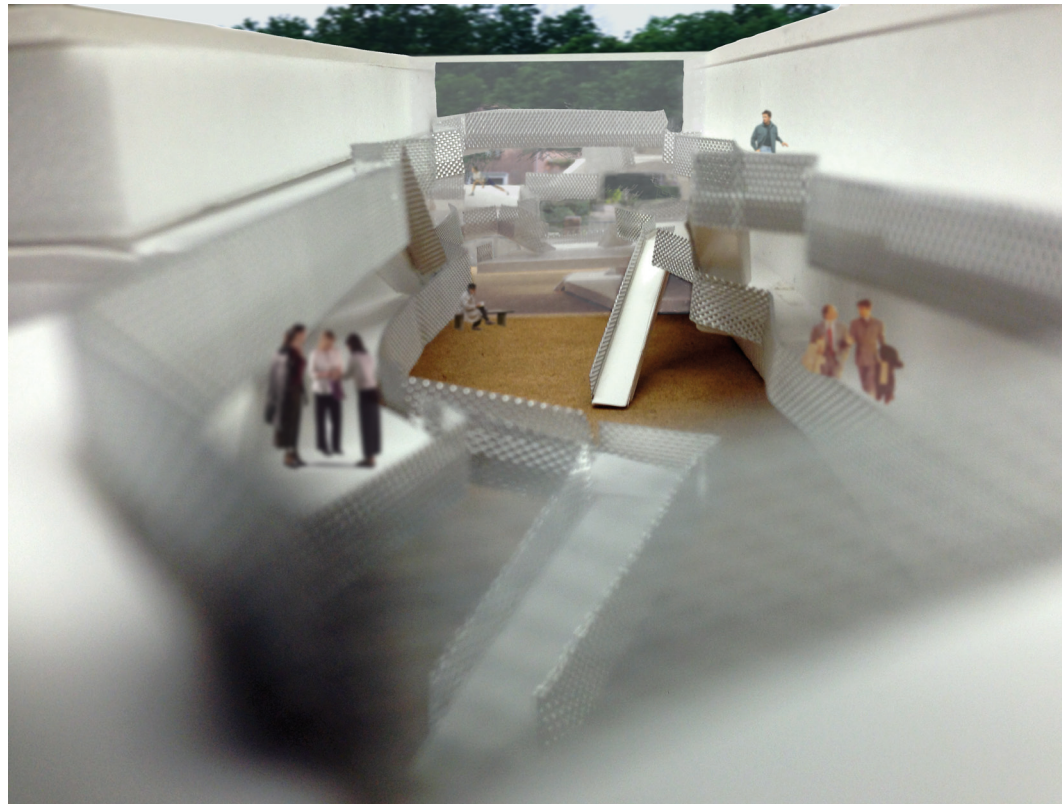
tech. facilities



toilet







» the resident does not finish
the aesthetic given by the
architect, but transforms it into
an anti-aesthetic which evolves
out of a new aesthetic form.«

Burckhardt / Förderer – 1972

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28.08.2013

ILLUSTRATIONS

PART IV

p. 36

capsule tower: <http://barepage.wordpress.com/2011/04/12/presentation-ideas/nakagin-capsule-plans-and-sections-and-axon/>

p. 37:

TEO: aat + MAKOT YOKOMIZO in: TOTAL HOUSING, alternatives to urban sprawl p. 106

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all other grafics mentioned within the