# SALUTOGENESIS

QUESTIONING ARCHITECTURAL DESIGN STANDARDS
BY IMPLEMENTING THE HUMAN AS A HOLISTIC LIVING BEING

D-ARCH ETHZ

FREE DIPLOMA THESIS JANA VON WYL DAVIDE MORGILLO

STUDIO TOM EMERSON STUDIO THERIOT

FS20

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ART BRUT

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**HAPPINESS** 

**ENVIRONMENT** 

**METHOD** 

MY HOUSE IS PRACTICAL. I THANK YOU, AS I MIGHT THANK RAILWAY ENGINEERS OR THE TELEPHONE SERVICE. YOU HAVE NOT TOUCHED MY HEART.

## HISTORICAL OVERVIEW

,The language of psychiatry is a monologue of reason about madness. Michel Foucault, The History of Madness 1961

The topic of mental health and illness has by the diagnostic tool called DSM-5- a large always been an important and difficult subject. As history shows, its architecture is Looking at the history of mental illness also an expression of the existing knowledge in means looking at the history of medicine this field. The position of humans in society has been evaluated with the definition of illness of the respective time. Whereas in the pain to the female gender. Making the lifeancient world, people with what we would call mental problems today, got guided into fell out of the ,normal', women were burnt a deep ritual sleep -the incubation- in order to heal their ,misbehavior', it became a tool of control, isolation and segregation in the showpieces for men of science. progress of time. In the 1950ies, with the contribution of medication to the field of the DSM in the 1960s, statistically seen psychology, the treatment and its architecture experienced a drastic change. Clinics became labs, where people were stripped of their rights and became guinea pigs to are more likely to talk about mental issues medical studies. From the typology of the panopticon it evolved into a more hospital sign a mental illness to women's physical like architecture.

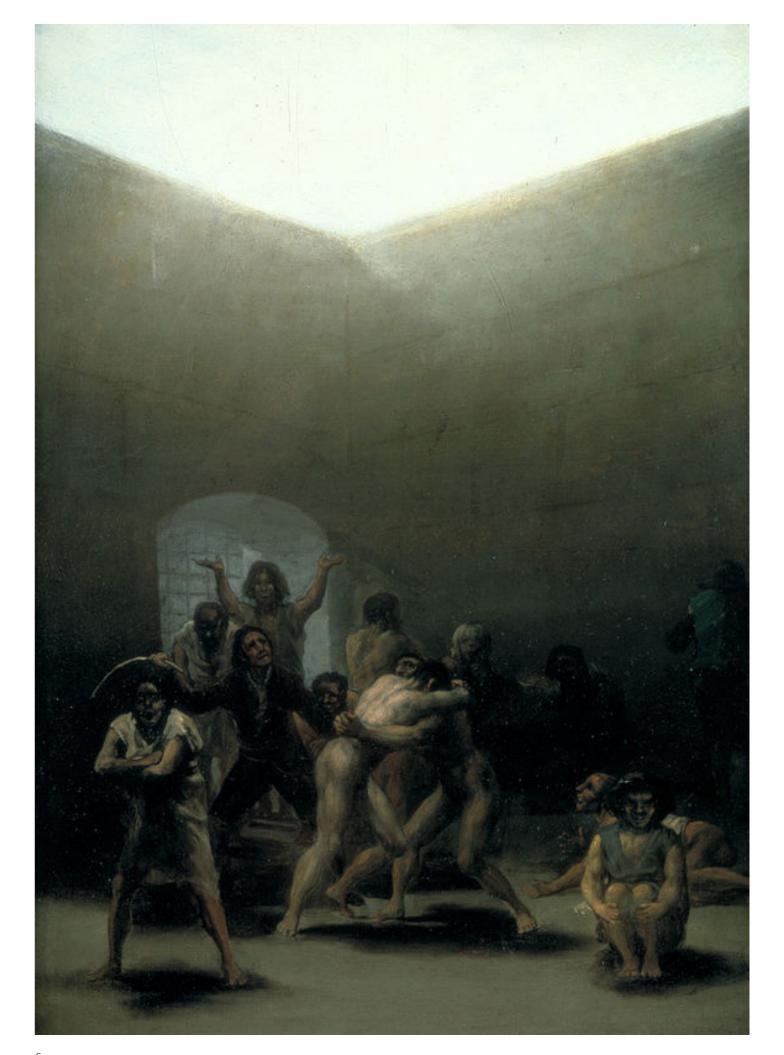
With those changes the definition of normality and simultaneously the one of illthroughout time, depending on several facthe present, the line between healthy and ill gets drawn in a very taxonomic manner,

collection of symptoms.

and women. Being the oldest mental illness ever described, Hysteria brought a lot of giving organ responsible for behavior that at the stake, their female organs were removed or later in history they even became

Even though Hysteria was removed from women are still more effected by mental illnesses than men. If this is due to gender specific paid or unpaid work, or that women or that medical staff is more inclined to ascomplaints, is not resolved yet.

By researching different approaches on how to deal with mental illnesses througness were redefined over and over again hout history, we came to question if contemporary renderings portraying new psytors such as social and cultural values. In chiatric clinics is how architecture for the mind should look like in the future.





The god cures by touching a patient's shoulder during the act of enkoimesis

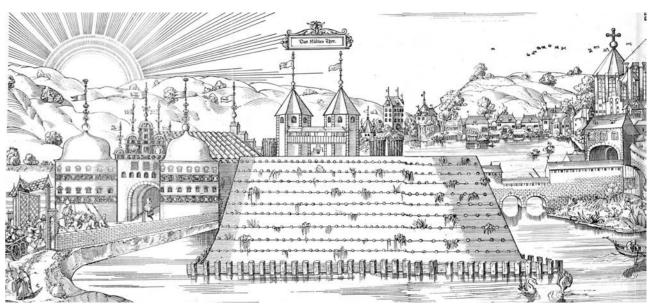
Around 30 AD was the first time something similar came up like what is called psychiatry today. The roman doctor Aulus Cornelius Celsus and the greek one Soranus von Ephesos already mentioned therapy on mentally ill humans in form of relaxing, employment (theatre, travel, play, literature) and body cleaning by diets and oil massages. If none of all this practices leaded to a solution, the last possibility would have been isolation.



Bloodletting as an act of purification and cure of mental illness

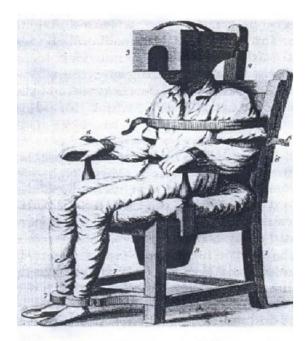


Autodafé on the Plaza Mayor in Madrid
Painting by Francisco Rizi
In the beginnings of the middle age and the rise of
Christianity they tried to find reasons for mental illness and blamed the devil for it. So the affected people, which were defined as witches and wizards got
eliminated due to inquisition.



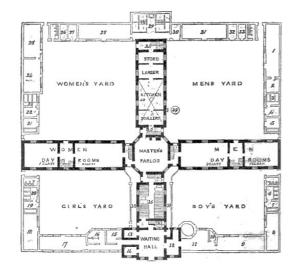
Social separation: Mühlentor-Anlage, Peter Monnik, Lübeck 1552. The lunatics got caged like animals outside the city walls without protection

6 /

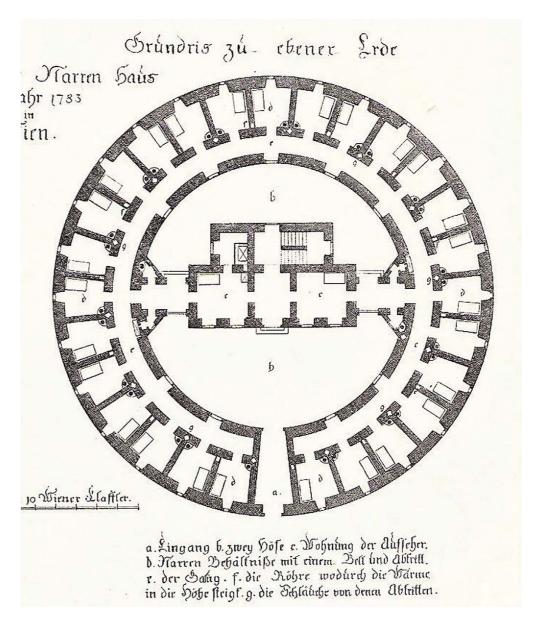


Der Tranquillizer

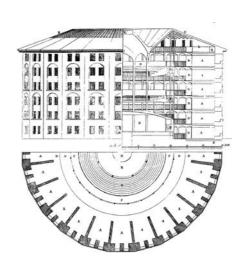
Forced treatment: Chair to control movement unrest



Square-plan workhouse, Sampson Kempthorne, 1835 In the 17. and 18. century instead of killing people by failed experiments the goal was to find an employment for the patients: workhouses and houses of correction.

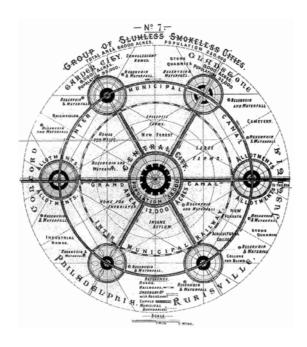


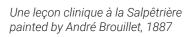
Architecture of surveillance: "Narrenhaus" Wien

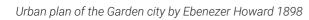


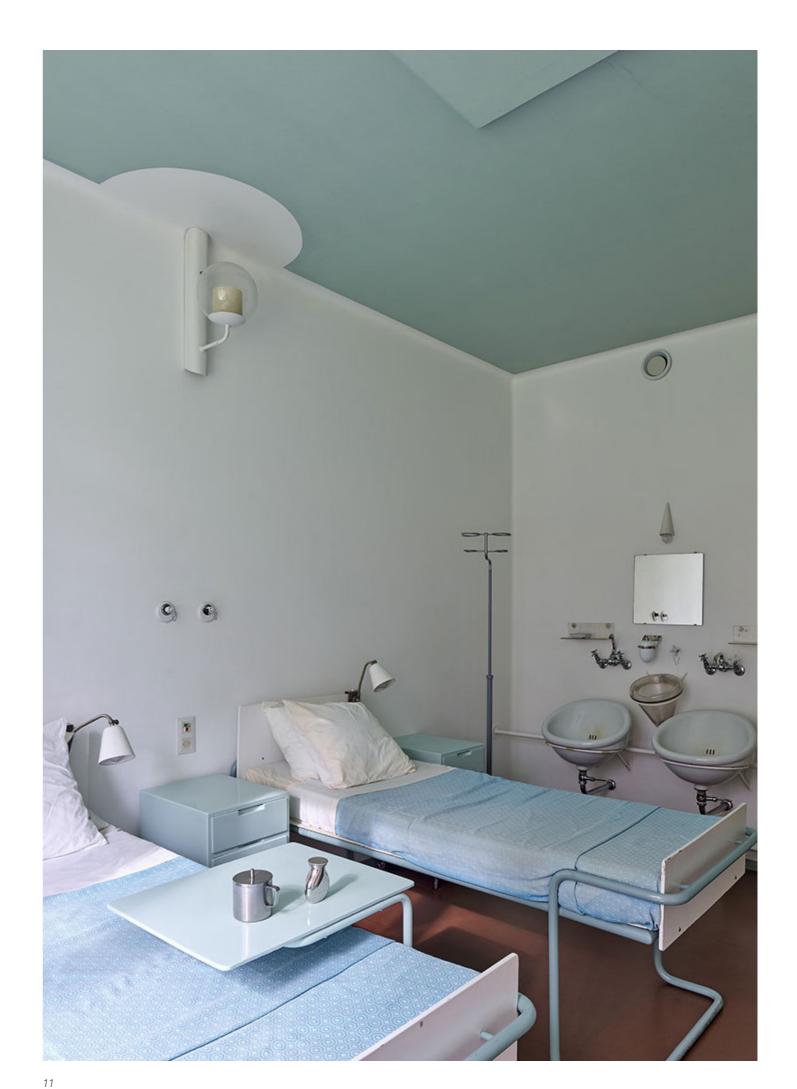
Panopticon, Jeremy Bentham

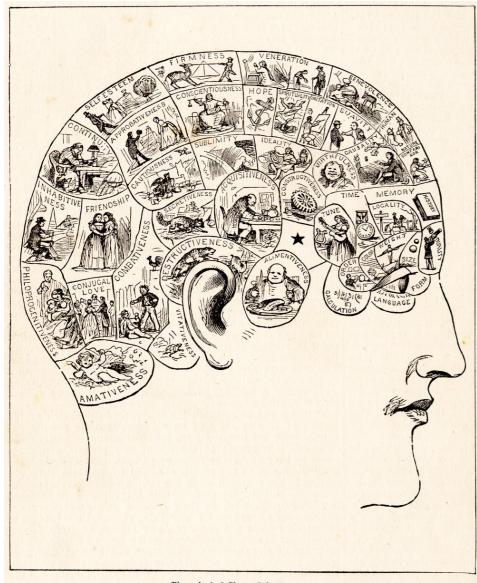






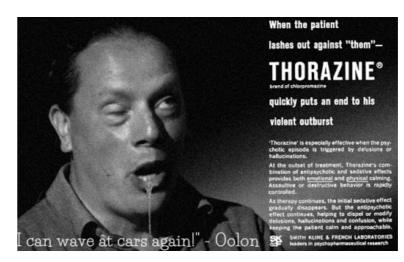






Phrenological Chart of the Faculties.

Phrenology: is a pseudoscience which involves the measurement of bumps on the skull to predict mental traits. It is based on the concept that the brain is the organ of the mind and that certain brain areas have localized, specific functions. With the progress of the research in the field of neurology some psychiatric disturbance got referred on anatomical mistakes.



1952: Evolution of psychiatric medication. THORAZINE as the first promise, later refuted tue to bad secondary effects.



Film stll Snake Pit 1948



Film still One flew over the cuckoo's nest 1975



Environmental question Psychiatric clinic Liestal, Burkard Meyer Architekten AG Under construction



# COMPLEXITY OF THE MIND

The mind is something extremely complex because of its high variety; existing as a unique and infinitive universe in each individual.

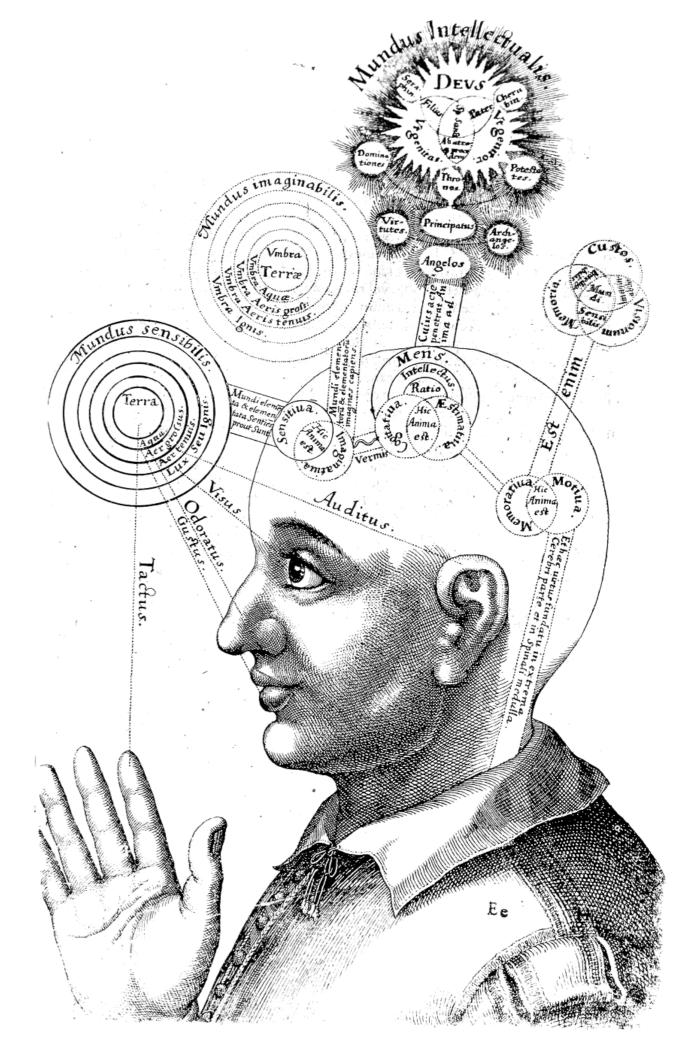
Mental disorder is classified as a pathologibody, the mind is more complex, in the way cal change in behavior and perception. An that the same mental disorder can require a other definition is, that a mental disorder occurs, when there is an objectively determinable deviation from a previous defined unhealthy does not account for the big vanorm, as well as subjective suffering of the person concerned. As norms undergo constant changes and vary from culture to sence of mental illness does not therefore culture, this definition implies that the determination of mental disorders is not static, e.g. homosexuality. As for the origins, the modern medicine does not assign specific causes to mental illnesses, as long as fined as a combination of high emotional, there is no definite biological reason. Therefore modern psychiatry is confined to symptoms and symptom combinations. This ,at the same time, it is an important indicafinds its expression in the DSM-5, a classification bible for any mental disfunction there is. Jerome Wakefield, who had a decisive mental health, but that mental health - i.e. influence on the DSM definition of mental disorders, developed the harmful dysfunction model, in which any mental disorder ted. (OBSAN 72 2016) must fulfill two conditions: there must be a In the world of design we find few nice natural dysfunction and a scientific proof, examples, that actively implement the psythat this dysfunction causes disadvantages che into their work, such as the therapy or damages.

Whereas any broken leg can be fixed more claims to care, it is precisely this topic that or less in the same way and the medicine needs caring from the architectural world. has successfully objectified the human

different approach in treatment.

The dichotomous division in healthy and riety there is. On the other hand we have the two-continua-model which states: ,The abautomatically imply the presence of mental health. Nor does the absence of mental health imply the presence of mental illness. Consequently, full mental health can be demental and social well-being and absence of mental illness.' Further over it states that tion that reducing mental illness in society does not necessarily lead to an increase in emotional well-being and mental as well as social functioning - must be actively promo-

objects by Nicolette Bodewes. As design



#### THE MEDICAL SPACE

#### **CURE**

#### MENTAL ILLNESS

DEFINITION OF ILLNESS

NORMS
MEDICAL
SOCIAL ENVIRONMNET
TIME CULTURE

<u>Crazywise</u> <u>Allen Frances: Normal</u>

CLASSIFICATION DSM - 5 IDC - 10

TYPES OF ILLNESS TYPES OF ILLNESS
DEPRESSION 30.3%
SPECIFIC PHOBIA (ANXIETY DISORDERS) 22.7%
SOMATOFORM DISORDER 20.4%
ADDICTION (ALCOHOL) 14.6%
BIPOLAR DISORDER
DEMENTIA
PSYCHOTIC DISTURBANCE
EATING DISORDER
SCHIZOPHRENIA
PERSONALITY DISORDER

WIDESPREAD DISEASE LIFESTYLE DISEASE

SOURCE OF ILLNESS BIOLOGICAL FACTORS
PSYCHOLOGICAL FACTORS
ENVIRONMENTAL FACTORS
IDIOPATHIC

PHARMACOTHERAPY brain research, brainbow Roland Kuhn: Antidepressiva

TREATMENT

INSTITUTIONS:

INSTITUTIONS

Philippe Pinel & Samuel Tuke PSYCHOTHERAPEUTIC

<u>Klaus Dörner</u> HELSINKI-DECLARATION

ROCHE NOVARTIS

LAW COMMITAL

PSYCHIATRIC CLINIC

Sigmund Freud William Tuke: The York Retreat ART THERAPY, ART BRUT

PERCEPTION OF SPACE THROUGH THE EYES OF ILLNESS

TYPOLOGY MOVEMENT PATIENTS AND STAFF ORGANISATION HOMOGENEOUS / HETEROGENEOUS STRUCTURE POSITION OF BUILDINGS

LITERATURE
Alfred Döblin: Berlin Alexanderplatz
Michel Focault: Wahnsinn und Gesellschaft
Die Geburt der Klinik
Überwaschen und Strafen
James Patterson Mauer des Schweigens
Ernstzicht Der Natreptium, Stijck

Franzobel: Der Narrenturm. Stück

ARCHITECTURE SELECTION Narrenturm, Wien, 1784 Kiyoshi Izumi: Mental health centre, 1965 Alvar Aalto: Paimio Sanatorium, 1929

architecten de vylder vinck taillieu, psychiatric clinic caritas, Melle, 2016 Maggie's

SWISS ORGANISATIONS
Pro Mente Sana
Mad Pride
Verrueckte Kindheit Institut Kinderseele
Trajets (work reintegration)
Stiftung ipt (work reintegration)

#### THE SOCIAL SPACE

#### **PREVENTION** MIND

MENTAL HEALTH
MENTAL WELLNESS
EMOTIONS, FEELINGS, MOOD
WELL-BEING
HAPPINESS
Gallup Inc: Collecting Data of Happiness (Questions 0 to 10)
WHO: "A state of complete physical, mental and social well-being"
William Davies: Nervous state: How feelings took over the world

EMOTIONAL CAPITALISM HAPPINESS AGENDA GROSS NATIONAL HAPPINESS (GNH)

EVERYDAYLIFE QUALITY OF LIFE HUMANISATION

**SWITZERLAND**FACTS, STATISTICS OF OBSAN BERICHT 72

WORLDWIDE

COUNTRYS:

Stiglitz-Sen-Fitoussi-Commission
AS A COUNTER ARGUMENT TO GNP
RANKING OF HAPPY COUNTRIES

URBAN SCALE

Italo Calvino: Invisible Cities Neurourbanistik

5 PONTS OF WELL-BEING: 1 CONNECT (SOCIAL BONDING, COMMUNITY) 2 KEEP ACTIVE 3 TAKE NOTICE

4 KEEP LEARNING 5 GIVE

NEIGHBOURHOODS APRTEMENTS A PLACE FOR RESTING A PLACE FOR FAMILY GATHERING

IMPACTS OF HEALTH WHERE WE LIVE ENVIRONMENT GENETICS INCOME EDUCATION

RELATIONSHIPS FRIENDS/FAMILY

ARCHITECTURE SELECTION

Epidaurus ca 4th century BC vastu shastra & feng shui Owen Williams: Pioneer Health center, Peckham, 1926 Finsbury Health centre, 1930

BEHAVIOR MOVEMENT

ARCHITECTURE PSYCHOLOGY

METHAPHYSICS SURREALISM

DREAMS SUBCONSCIOUS Lucien Lévy-Bruhl: participation mystique C.G. Jung

**EXPIRIENCE** EXPIRIENCE
PHYSICAL MATERIAL
ATMOSPHERE
SMELL
SUN, LIGHT
AIR
GREENERY
COLOUR

kopvol

COLLABORATION ARCHITECTS & PSYCHOLOGISTS

ENVIRONMENT

Heini Heidiger: Animal psychology Humphry Osmond William Ittelson

EXPERIMENT

Owen Williams: The Peckham Experiment
Stanford-Prison-Experiment, 1971

#### **PREVENTION BODY**

INFRASTRUCTURE

HYGIENE SPORT, EXERCISE PHYSIOTHERAPY NUTRITION

Topic overview Davide Morgillo & Jana von Wyl

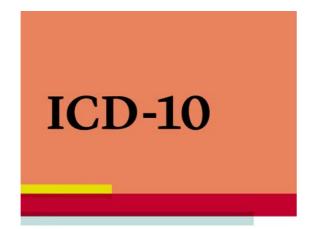


Deutsche Ausgabe herausgegeben von Peter Falkai und Hans-Ulrich Wittchen

mitherausgegeben von Manfred Döpfner, Wolfgang Gaebel, Wolfgang Maier, Winfried Rief, Henning Saß und Michael Zaudig

2., korrigierte Auflage





Horst Dilling Harald J. Freyberger (Hrsg.)

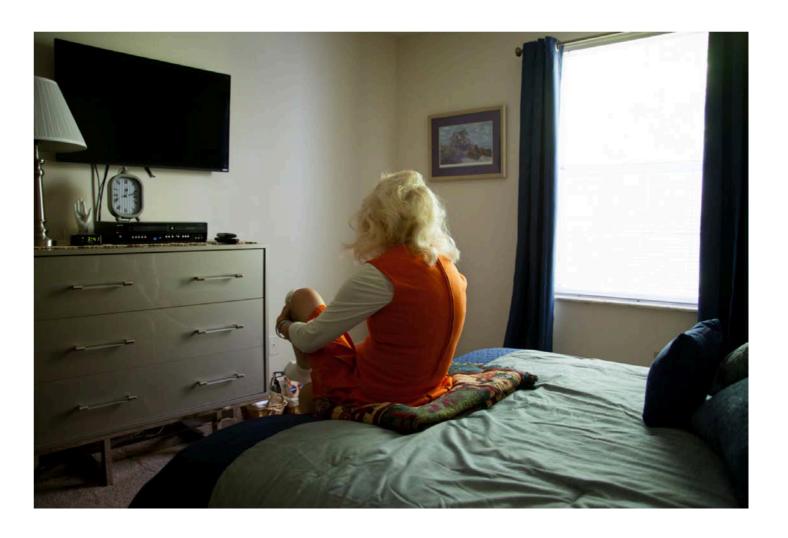
Taschenführer zur ICD-10-Klassifikation psychischer Störungen

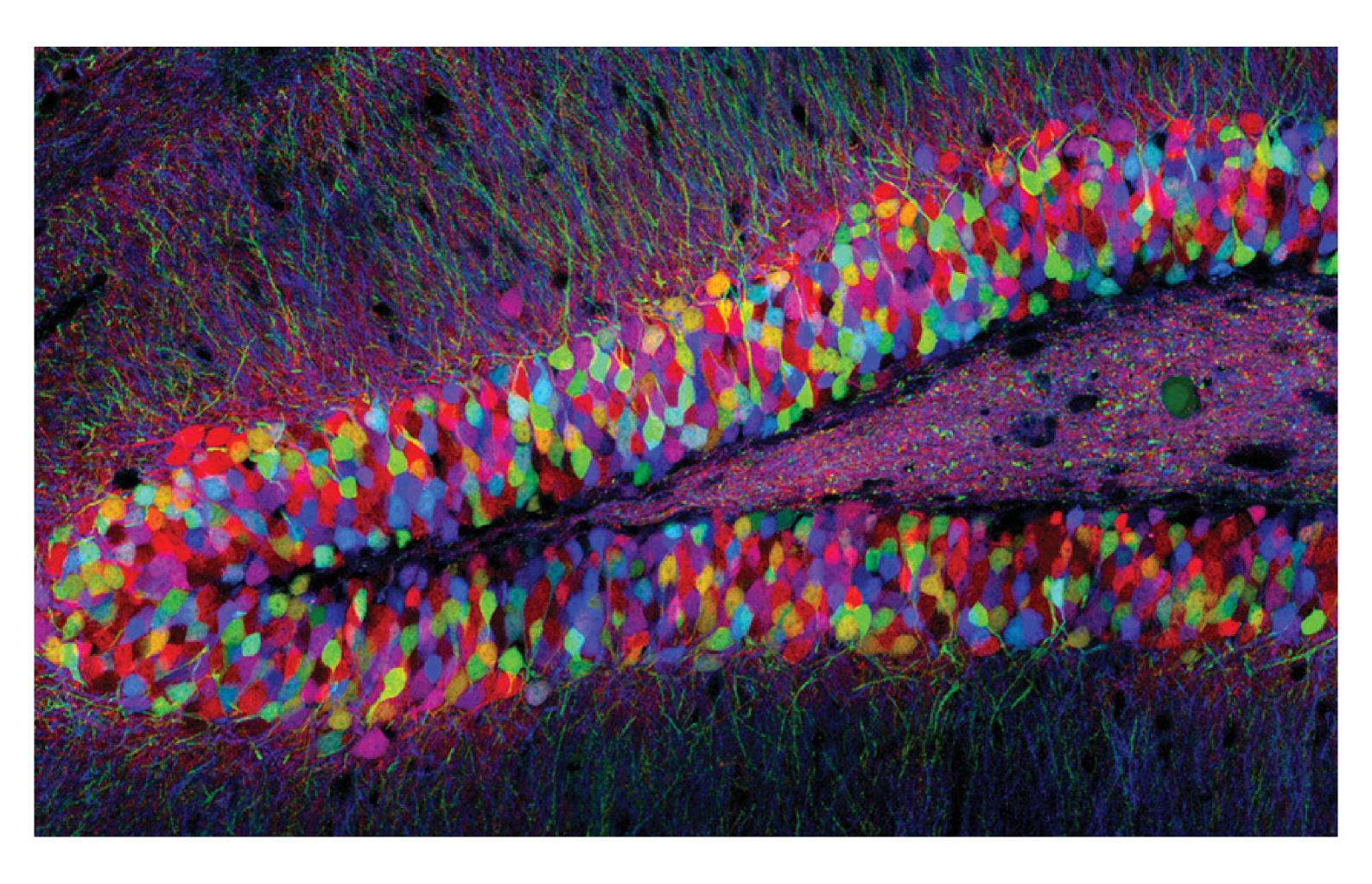
Nach dem Pocket Guide von J. E. Cooper

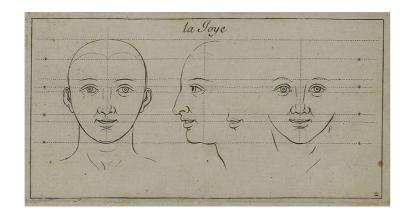
9., aktualisierte Auflage entsprechend ICD-10-GM

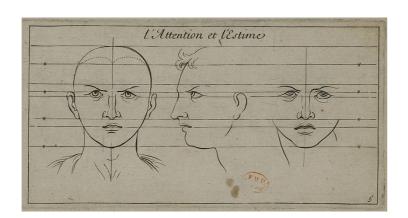


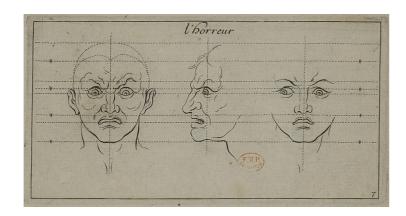


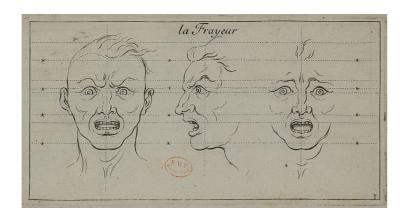












# APPEARANCE OF ILLNESS

1 Delusion

2 Hallucination

3 Disorganized thinking

4 disturbed behavior

5 negative symptom

Two or more, one of the symptoms needs to be 1, 2 or 3.

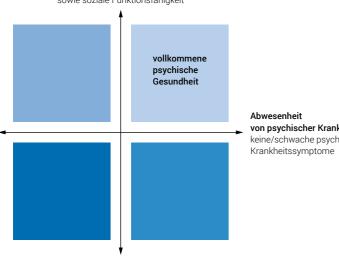
#### Zwei-Kontinua-Modell Psychischer Gesundheit und Krankheit

Vorhandensein von psychischer Krankheit

viele/gravierende psychische Krankheitssymptome

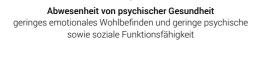
#### G 1.1

Vorhandensein von psychischer Gesundheit hohes emotionales Wohlbefinden und hohe psychische sowie soziale Funktionsfähigkeit



von psychischer Krankheit keine/schwache psychische Personen mit hohem psy-chischen Wohlbefinden, ohne psychische Störung Personen mit hohem psy-chischen Wohlbefinden, mit diagnostizierbarer psy-chischer Störung Personen mit geringem psy-chischen Wohlbefinden, ohne psychische Störung

Personen mit geringem psy-chischen Wohlbefinden, mit diagnostizierbarer psy-chischer Störung

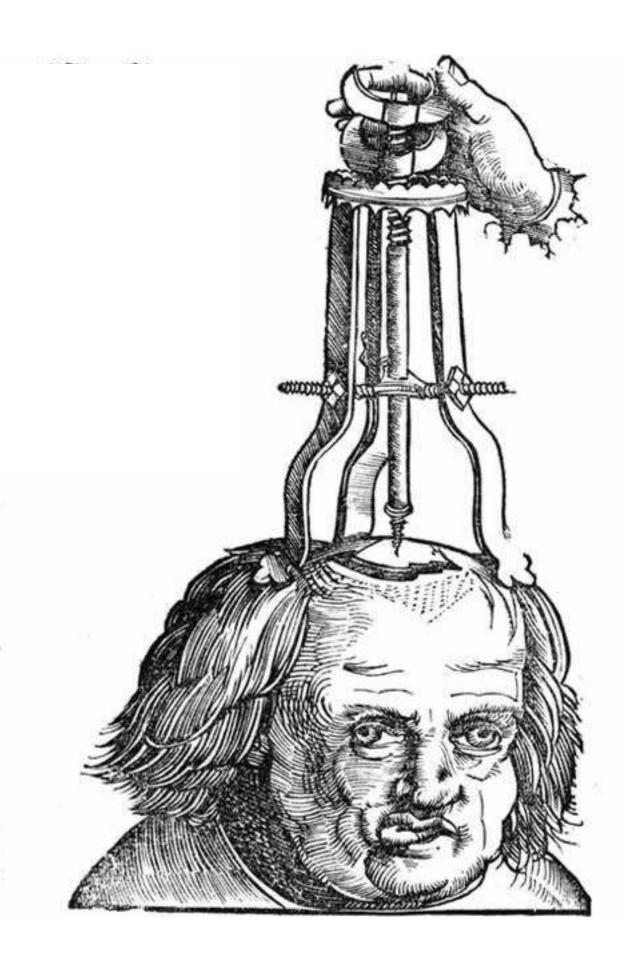




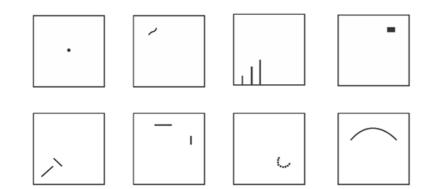
Two-continua-model Westerhof & Keyes 2010

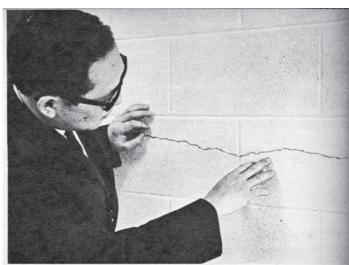
Therapy objects Nicolette Bodewes, 2016



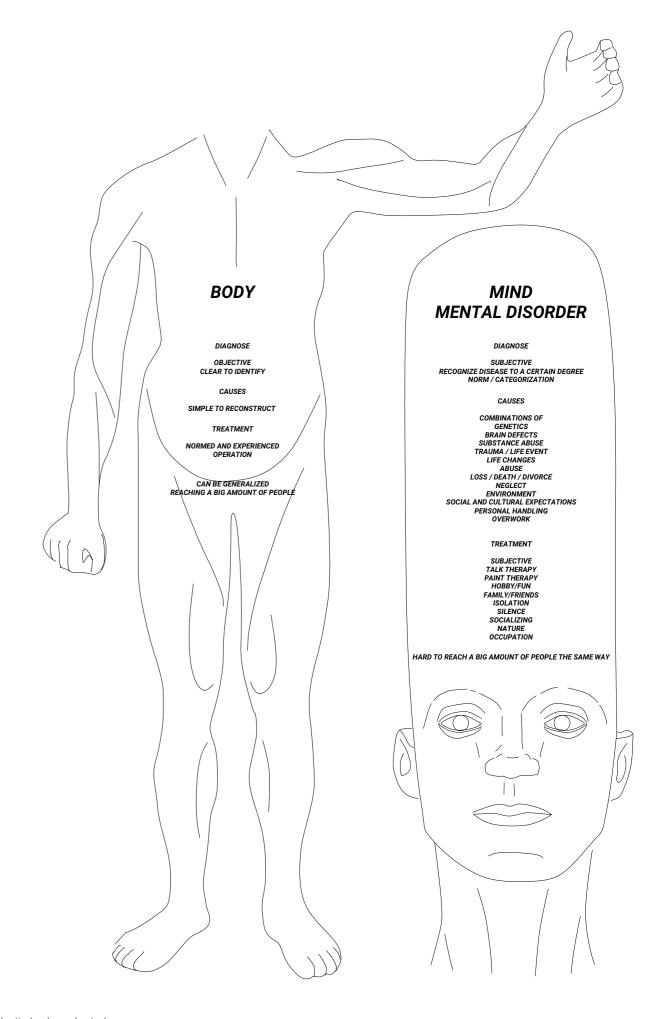


Trepanation





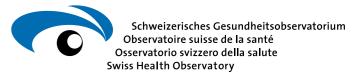
"I saw a crack in the wall and it frightened me. I imagined it was a huge crevice," says Izumi. This is typical of fear suffered by schizophrenics.



Wartegg drawing test, 1939

Kiyoshi Izumi

Complexity body and mind Davide Morgillo & Jana von Wyl



### CONTEXT SWITZERLAND

13 % of Swiss people have a mental disorder according to the monitoring review of 2016. This generates costs of 7 Mrd. each year. Wittchen and Jocobi have found out in their research in 2005 that almost every second person will suffer from a mental disorder in their life. Therefore it is an issue that affects everyone and should also be part of the design world.

The international focus on healthcare is tion and so people often end up remaining evident. Several of UN's 17 climate goals relate to healthcare aspects, and strategies for healthy cities are recently formulated by WHO. All over the world strategies for healthy living and general wellbeing are developed. The report from 2015 ,Psychological Health in Switzerland- an inventory and fields of action' concludes, that gaps in measures for mental health in Switzerland exist and sees a primary need for action in the fields of raising awareness, destigmatization and information, in the implementation of activities within health promotion, prevention and early detection, in advocacy and knowledge and in the field of structures and resources.

According to the report, there is good, highquality mental health care in Switzerland, which enables mentally ill people to receive treatment in line with their needs, but sees potential improvement especially in the ambulant treatment and the linkage between the individual offers. The average duration of stay of a patient in a psychiatric clinic is approximately 29 days, of course strongly varying depending on type and degree of

After a stationary stay the reintegration in familiar work environment is very difficult, parameters to the project. amongst other factors due to stigmatiza-

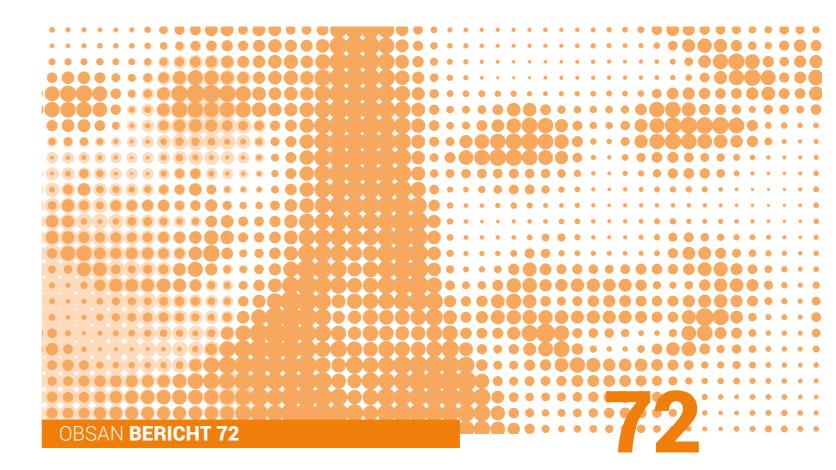
ghosts along the edge of society. The vision needs to be to prevent mental disorders and to raise awareness through its visibility as far as it is possible with the means of

As society transformed itself more and more towards great individualization, former values of collectivity got replaced by self-actualization and felt loneliness within society increased. The demand of one person households grew significantly during the last ten years.

The preventive measures that exist in Switzerland are based on campaigns and dialogues, but do not have an agenda concerning the built environment.

As there is still a lack in systematic and broad empirical data, the statistics should be carefully read, but as it is still a topic that lacks visibility and wide spread knowledge within society, it is an important part of the political agenda in Switzerland.

We think that global challenges such as mental health, climate change, limited resources, gender aspects and quality of life must be acknowledged as factors, that increasingly influence architectural design. We see prevention and collectivity as two



# Psychische Gesundheit in der Schweiz

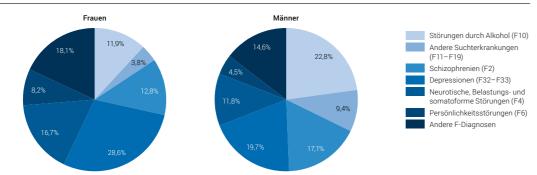
Monitoring 2016

Daniela Schuler, Alexandre Tuch, Nathalie Buscher, Paul Camenzind

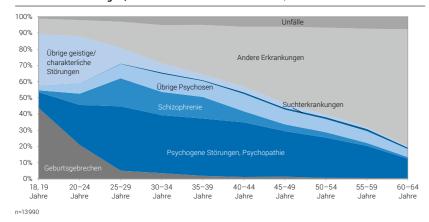


#### Verteilung der Hospitalisierungen nach psychiatrischen Diagnosen (Fälle), nach Geschlecht, 2014

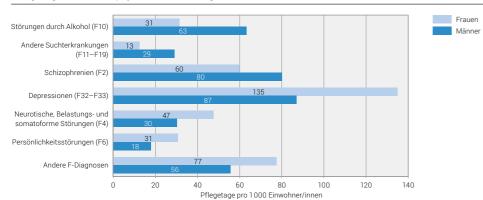




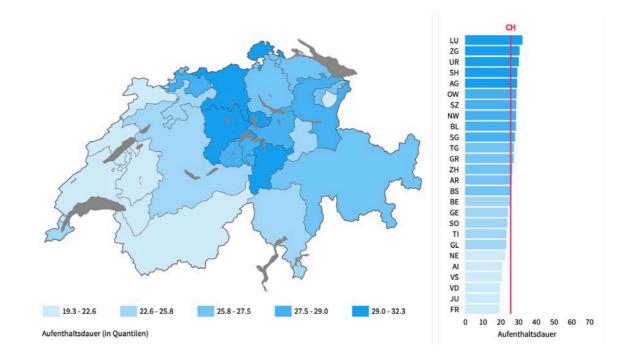
#### Anteil Neuberentungen, nach Alter und Invaliditätsursache, 2015



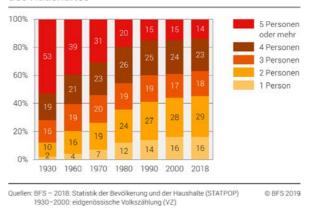
#### Pflegetageraten nach psychiatrischen Diagnosen, nach Geschlecht, 2014



Statistics from OBSAN Bericht 72, 2016
Percentage of hospitalisation according to mental illness diagnosis
Amount of retirement
Stay duration according to psychiatric diagnosis



# Personen in Privathaushalten nach Grösse des Haushaltes



Statistic OBSAN, 2020 Stay duration in days

Statistic Bevölkerung und Haushalte BFS, 2019 One person housholds

35

### -16 YEARS **EXPECTATION OF LIFE DURATION**

1:4 FOR EACH DOLLAR OF THERAPY -**4 DOLLARS OF PRODUCTIVITY RESULTS** 

**NON-PRODUCTIVE DAYS DOUBLED THE LAST 10 YEARS** 

**4**x **MORE SUICIDES THAN TRAFFIC ACCIDENTS** 

29 DAYS **AVERAGE STAY DURATION** 

**30 YEARS OLD** IS THE AVERAGE AGE FOR DEPRESSION

36% **SUFFER LONELINESS** 

40% OF THE SWISS POPULATION DON'T FEEL VITAL AND FULL OF ENERGY

OF ALL THE IV IS DUE TO PSYCHIATRIC DISORDER

**50% OF COSTS ARE INDIRECT** 

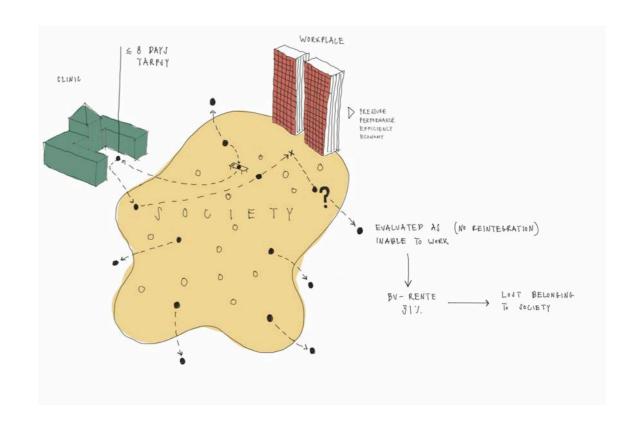
118 PATIENTS PER YEAR FOR EACH PSYCHIATRIST

1900 EURO **PER PERSON** 

14.5 MIA. COSTS BECAUSE OF PSYCHIATRIC DISORDER IN SWITZERLAND

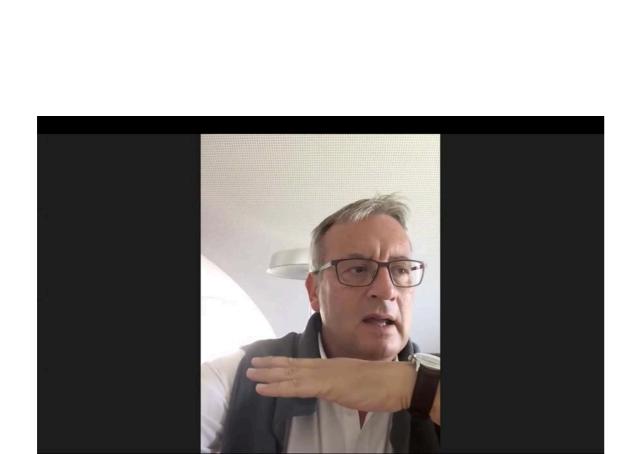
3/4 OF ALL MENTAL ILLNESSES REMAIN UNTREATED "If the topic of mental health would have more visibility within the increasingly self-oriented society, it would contribute a lot to the prevention of mental illness."

Kerstin Jüngling ZHAW School of Health Professions Institute of Health Sciences



Graphic simplification of the stigmatization Davide Morgillo & Jana von Wyl





"Our head psychiatrist hands out coupons for 'mindfull spaghetti eating'. The patient becomes a plate full of the best spaghetti Ma 'Kaira with a delicious tomato sauce. You then simply order the dish and enjoy it in the dinning hall, trying to be completely aware of every bite and taste for several minutes."

Zoom meeting with Walter Denzler, administrative director Psychiatric clinic Hohenegg



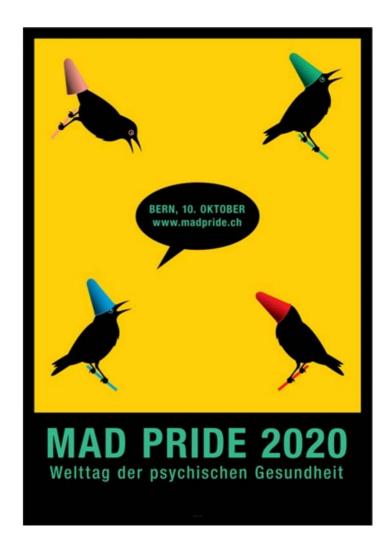


		UNION	PUBLICATION	RESEARCH	LAW	ECONOMY
WORLDWIDE		World Health Organization (WHO)	Prevention and Promotion in Mental Health  Prevention of Mntal Disorders-Effective Interventions and Policy options  Promoting Mental Health - Concepts + Emerging evidence + Practice			
	FEDERAL GOVERNMENT	Bundesamt für Gesundheit (BAG)  Schweizerisches Gesundheitsobservatorium (Obsan) Independent Analysis of the Health system of Switzerland for the federal government and cantons	Magazin "spectre"		Psychiatrische Patientenverfügung	<u>SwissDRG</u> <u>TARPSY</u>
LAND	CANTONS	Schweizerische Konferenz der kantonalen Gesundheitsdirektorinnen und -direktoren (GDK)	Psychische Gesundheit in der Schweiz - Bestandsaufnahme und Handlungsfelder	FHNW - Gesundheitsförderung und Prävention		
SWITZER	FOUNDATIONS/ORGANISATIONS	Zürcher Stadtmission Pro Mente Sana Gesundheitsförderung Schweiz Radix feel-ok.ch Aktionsbündnis Psychische Gesundheit Schweiz Netzwerk Psychische Gesundheit Schweiz Netzwerk Psychische Gesundheit Schweiz NPG/RSP bündnis gegen Depression mental help club ensa - erste Hilfe für psychische Gesundheit	Zürcher Stadtmission - Jahresbericht Clubmagazin "KONTEXT" Pro Mente Sana Newsletter	Consultation in form of newsletter, talks, chats, peers education support group		
	CAMPAIGNS/SOCIAL	Wie geht's dir?  Rote Ber ales, but the truckers, and the truckers	10 Schritte für psychische Gesundheit  The state of the s			



"Of course there's a need of work for destigmatization like our institution is doing but at the same time you feel like fighting against Goliath when the media repeatedly report about a person suffering from shizophrenia attacked someone else, eventough the possibility is very very very small."

Zoom meeting with Nadia Pernollet, employee psychosocial Pro Mente Sana





# AKTIONSTAGE PSYCHISCHE GESUNDHEIT

**20.-30.**lesgutebasel.ch OKTOBER **2019** 

Record of the spontaneous activities Pioneer Health centre

## HEALING ARCHITECTURE

It needs an appreciation of the role the environment plays in meeting our fundamental psychological needs such as stimulation, security and identity. All this requires an approach to the design and organisation of space that does not treat it, as so much architecture does, as an abstract geometrical construct, but as a social and psychological one. Prof. Bryan Lawson

goes back to the nurse Florence Nightingale. She resisted the expectations for women fe and having a family and became the head of a nursing home and founded the Nightingale School of Nursing at the St. Thomas's Hospital in London instead. She was one of the first, documenting the effects of entients. As the more recent founding figure of healing architecture, Roger Ulrich needs out of a patient's room influences the heathesis, that spatial quality influences people both physically and psychologically, is nowadays widely accepted and proven. Alongside the health architecture department at the TU Berlin, many researchers dedicate their work on how to improve the our project tries to implicate it into the arhealth system by improving the architecture of clinics and hospitals. Evidence based design theory, that tries to base the physical environment onto scientific research is part of the healing architecture agenda. The results require from architects to have a deep understanding of the social psychology

One might say, that healing architecture of space and it needs a shift from seeing health facilities as machines of treatment to places of healing. The number of publisin the 19th century of becoming a housewihed research papers on this topic has risen up to 1000 over the last few decades. The applied knowledge can nicely be seen in the Maggie's centers. They try to provide a space for people affected by cancer outside of the hospital athmosphere, to exchange vironmental factors on the recovery of pa- with other cancer patients, to engage in conversations or to simply be. A caring environment. An other example is the Vidar to be mentioned. His study on how the view clinic in Sweden. It is based on anthroposophic views and provides the patients a spaling process is seen as the ground stone tial sequence from privacy to reconnecting to the healing architecture movement. His with others, that accompanies the healing process.

Healing architecture is about re-humanising the physically built world of the health care system. As it only finds its application in the architecture of clinics and hospitals, chitecture of the everyday.

APPENDIX VII See Chapter x

# Record of the spontaneous activities

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NB Two swims aday allowed in school holidays

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Florence Nightingale 1820-1910 social reformer, founder of modern nursing Vidar clinic Erik Asmussen, 1985

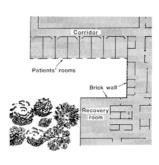


Fig. 1. Plan of the second floor of the study hospital showing the trees versus wall window views of patients. Data were also collected for patients assigned to third-floor rooms. One room on each floor was excluded because portions of both the trees and wall were visible from the windows. Architectural dimensions are not precisely to scale.

HEALTH

Bauen für Kinder

2017

#### **EVIDENZBASIERTE DESIGNFORSCHUNG**

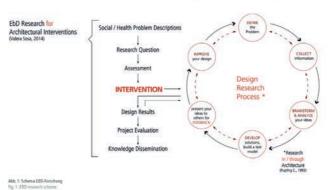
## CHRISTINE NICKL-WELLER & ALVARO VALERA SOSA

2012 unterstützte das deutsche Bundesministerium für Gesundheit (BMG) eine umfangreiche Literaturprüfung zu den Aus- und Einwirkungen der Architektur auf gesundheitsrelevante Ergebnisse. Die Ergebnisse wurden in dem Buch From Concepts of Architecture to German Health Economics veröffentlicht. Sie betonten die Dringlichkeit, rigorose Methoden zu entwickeln, um Nachweise über die heilenden Fähigkeiten und wirtschaftlichen Auswirkungen der Architektur zu sammeln, und zweitens das Bedürfnis, auf transdisziplinäre Weise zu arbeiten, um Kommunikationsprobleme in der Planung zu überwinden. Ab diesem Zeitpunkt wurde das Evidence-based Design (EBD) Researcher Cluster in der Abteilung "Architecture for Health" der TU Berlin etabliert.

Das relevanteste Kommunikationsproblem war die offensichtliche Inkompatibilität von Forschungsansätzen, die in den Gesundheitswissenschaften und Designdisziplinen bestanden, zusätzlich zu Konzepten, Begriffen und Terminologie.

Dieses begriffliche Problem wurde teilweise mit dem folgenden Modell angegangen, das eine mögliche Integration eines laufenden Designforschungsprozesses mit einem objektiveren Ansatz angeht und dadurch die Ergebnisse evaluieren und gültige Ergebnisse verbreiten möchte.

In der Praxis wurde dieser EBD-Ansatz von Nickl & Partner bei der Entwicklung von Kinderkrankenhäusern angewendet. Es wurden retrospektive Informationen



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Roger Ulrich View through a window may influence revorery from surgery 1984

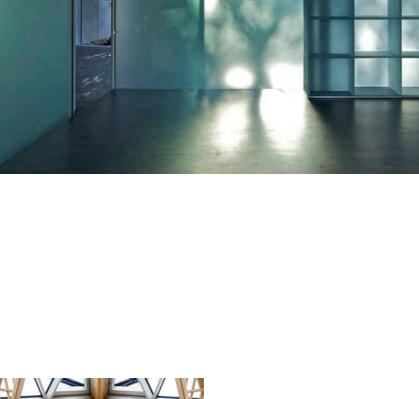
> Nickl and Partners Evidence based design research 2017

That maxim was important for our design work, but it was also a barb directed at political decision-makers. The building's spaces were equated with somatic medicine's equipment, as though to hint, "Who knows anything about medical technology equipment? We have no choice but to make the necessary investment!" Or: "Everyone knows how important technological equipment is in medicine," with the same affirmative response. Throughout the entire project, which ended up taking five years to complete, we maintained a lively *dialogue* about the role of architecture in healthcare—from detail to whole—for the benefit of the final design results.

In the anthology *Architecture as Medicine*, written just over two years after the hospital's completion, I tried to describe what I thought contributed to the project's good results. In the chapter "The Architect Speaks," I make an argument in ten parts with a total of forty recommendations for how architecture for psychiatric inpatient care should be designed. I could have chosen to briefly summarize those points here, but instead—with the benefit of the five intervening years—I will restate them in a slightly different way. I am now able to formulate them in a more focused and fundamental way than before. The most important aspects can be summarized in the following seven recommendations:

- Promote dignity!
- Encourage normalcy!
- Create a free and open atmosphere!<sup>5</sup>
- Promote social interaction!
- Promote patients' independence!
- Offer views to the outside and free access to the outdoor environment!
- Balance the demands for a safe and healing healthcare environment!

Promote dignity! It is important that the building be able to convey an expression of dignity. Psychiatric care has often been relegated to older facilities—sometimes the facility left behind when a somatic ward gets a new one. Psychiatry has often had to make the best of a hospital's worst spaces, and accept its role as "a minor medical specialty"—in spite of the fact that about 40% of today's medical leave costs are related to mental



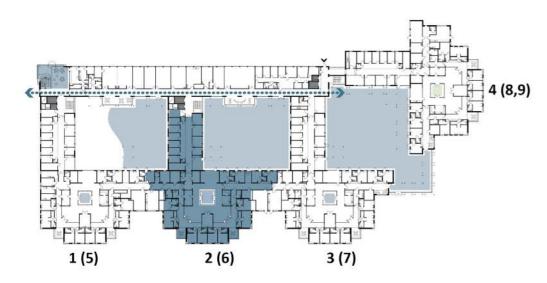


Maggie's center Glasgow OMA 2011

Maggie's center Manchester Foster + Partner 2016

<sup>&</sup>lt;sup>5</sup> A concept used by the Danish architecture firm PLOT in conjunction with the architectural competition for the design of the psychiatric wing for the Helsingør Hospital.

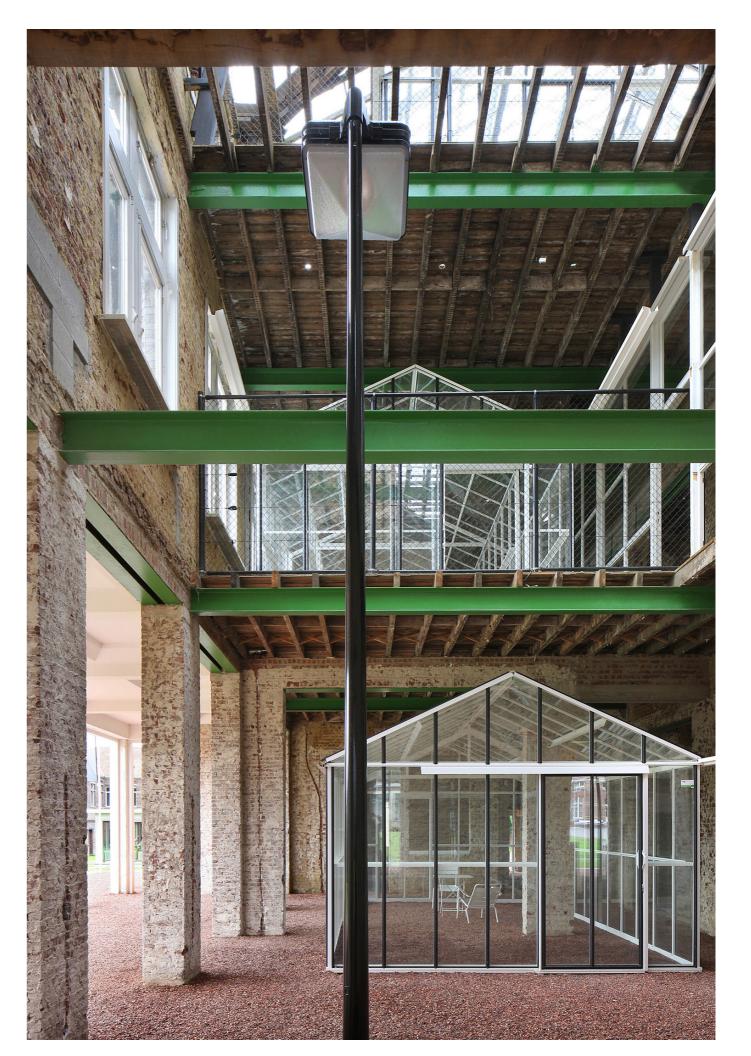




9 wards, 124 beds and three internal courtyards

Evelina London Children's Hospital Hopkin Architects 2005

Sahlgrenska Östra psychiatric clinic Stefan Lundin Sweden Health care building award 2007



# **BODY-MIND INFRASTRUCTURE**

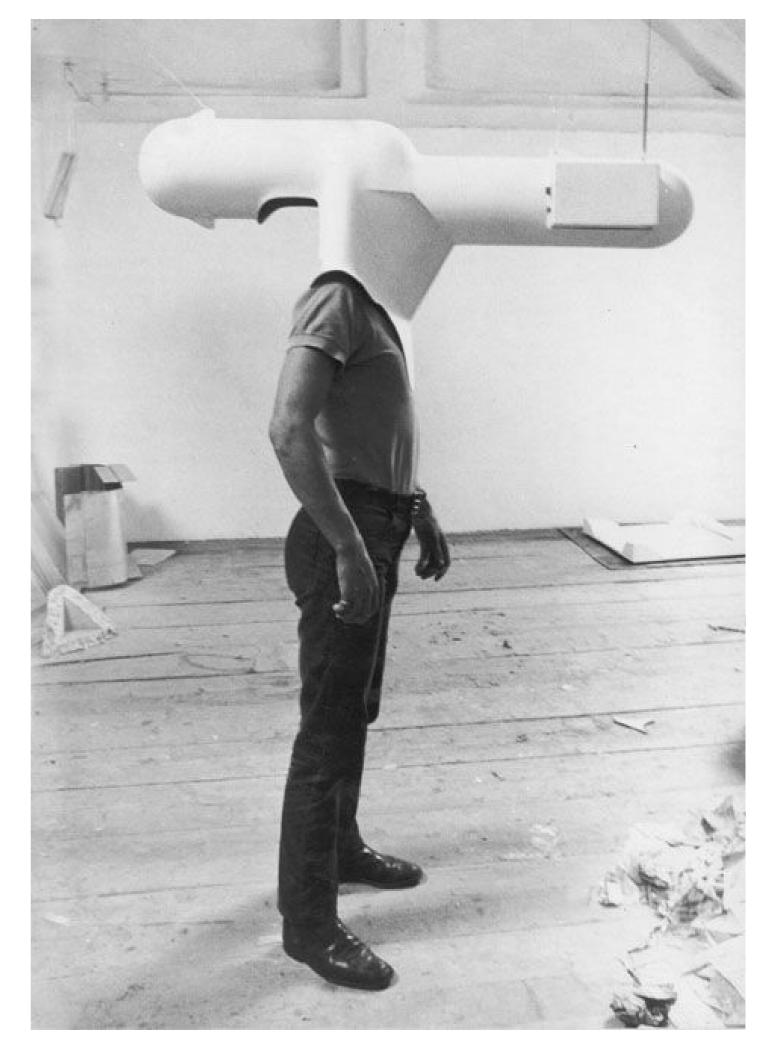
In this respect, the Peckham experiment could be interpreted in the sense of a historical anthropology that deals with "images of man" and thereby reflects on the conditions under which they were created, i.e. the knowledge and practices involved in the genesis of these images.

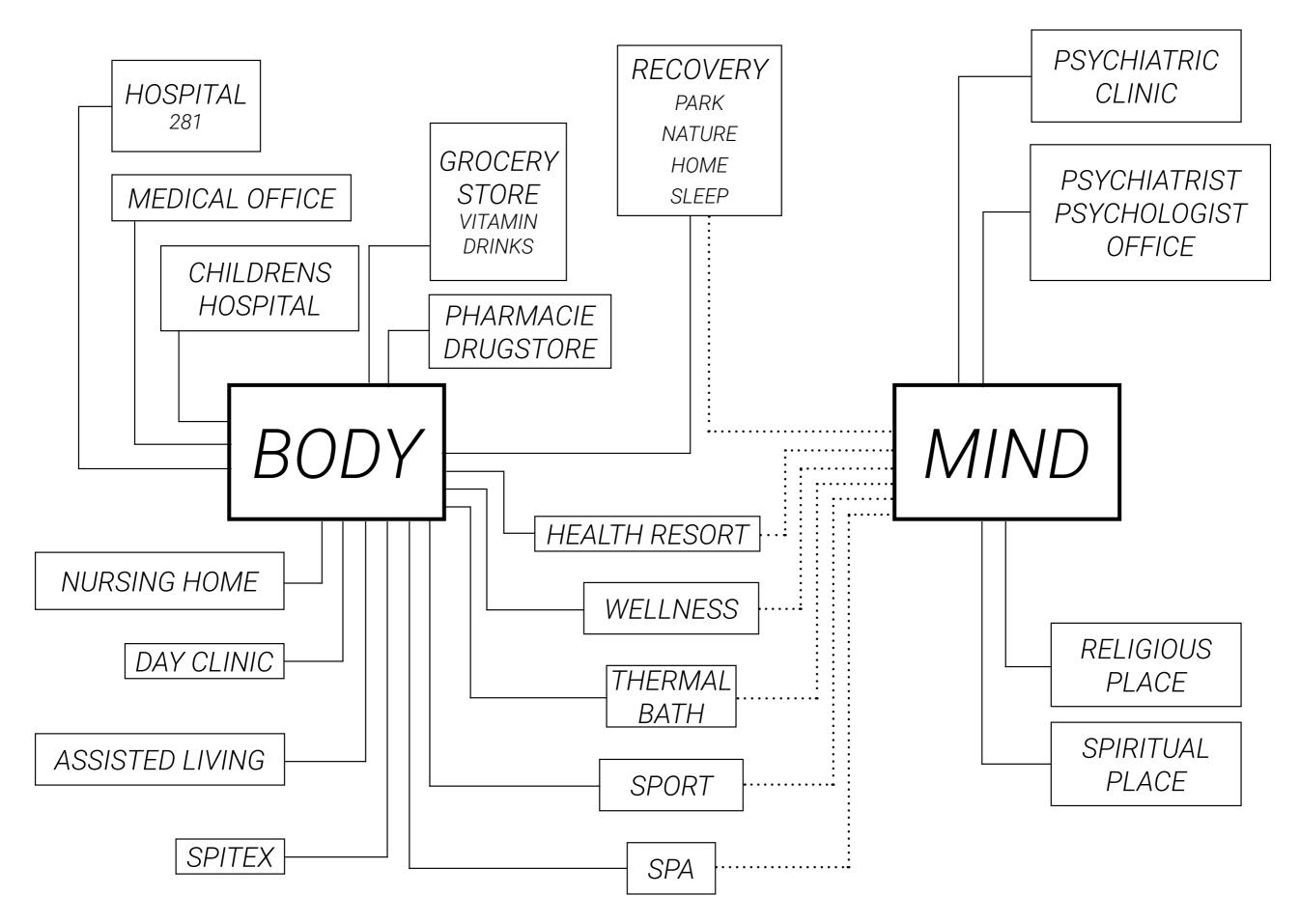
Self-responsibility as an experiment The London Pioneer Health Centre (1926-1950) David Kochenbuch

Comparing the infrastructure for the body Looking back in history the Epidauros from and the one for the mind, an imbalance stands out. Even though the body and the mind can not be separated from each ot- into a whole complex around the topic of her, acting on the body is more part of the health. More modern examples such as everyday life. The access is simple, cheap and comes with high variety. Gyms became a natural part of the townscape, vitamin drinks can be bought in each store, while on the other hand, we have the invisibility families from the close neighbourhood had of ,homey', yet impersonal Ikea furnished rooms, where people talk to psychiatrists. Especially in the situation that we are now with the invisible threat of Covid-19, health became the topic number one, the internet owed or not within the building. After a is full with videos on how to stay or become short period of chaos, a friendly togetherfit and the amount of joggers in the streets has risen drastically. Since the effects are more visible, when someone works on its ment was established. body and as we live in a society, where progress and performance are established values, the mind often gets neglected. With the individualization of society former authorities, such as the church, lost influence. With that, common places for spirituality got scarce, at least in the context of Switzerland. Religious institutions that partially replaced the traditional churches, such as ICF and other ,free churches' are less about self-awareness and mental issues, than about worshiping and celebrating an exclusive community.

ancient Greece provides a different picture. There mental health was imbedded visibly the Pioneer Health Centre in London from 1935 show, that there can be provided a different kind of infrastructure to tackle the issue of the mind. In this experiment only permission to use the building. In exchange the condition was to subscribe for a health check once a year including discussions. Else there were no rules on what was allness and interest in ones physical and mental health, as well as in the social environ-

In China we can also find projects of centers that try to integrate mental health more into the everyday life, be that by cooking together or having a communal garden within complexes that are spread in the city fabric. As we see some spirituality lost in the Swiss way of living and do not want to institutionalize it in the way, religion has been institutionalized, our project aims to bring back an awareness towards mental health.



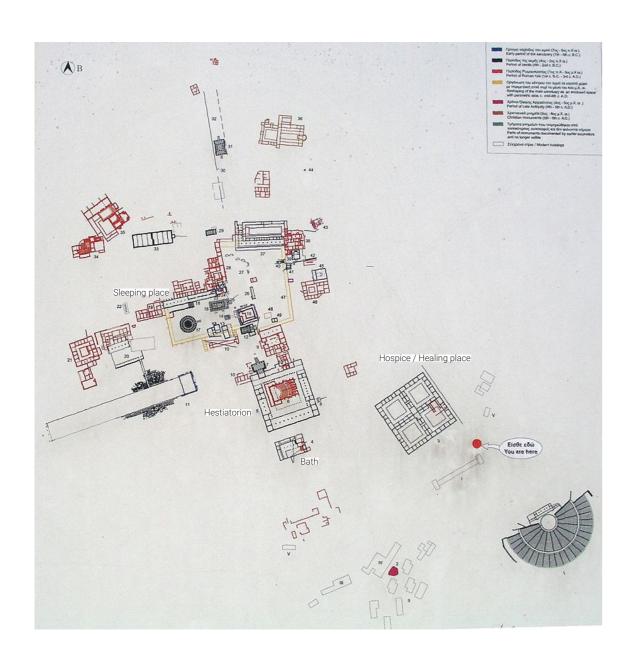








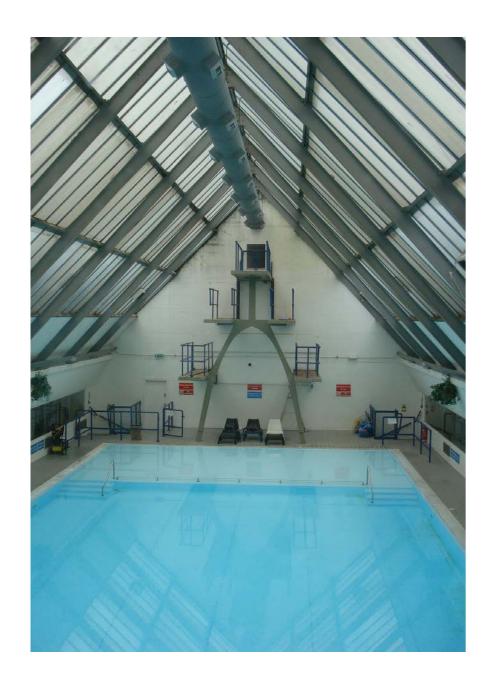
Advertising Gym Vitamin WELL drinks







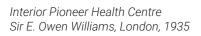
Finsbury Health Centre Berthold Lubetkin, London, 1938











Cover of The centre monthly magazine Published by the people of the Pioneer Health Centre, July 1950



Mental health facilities Beijing's hutongs Cameron Clarke, 2019

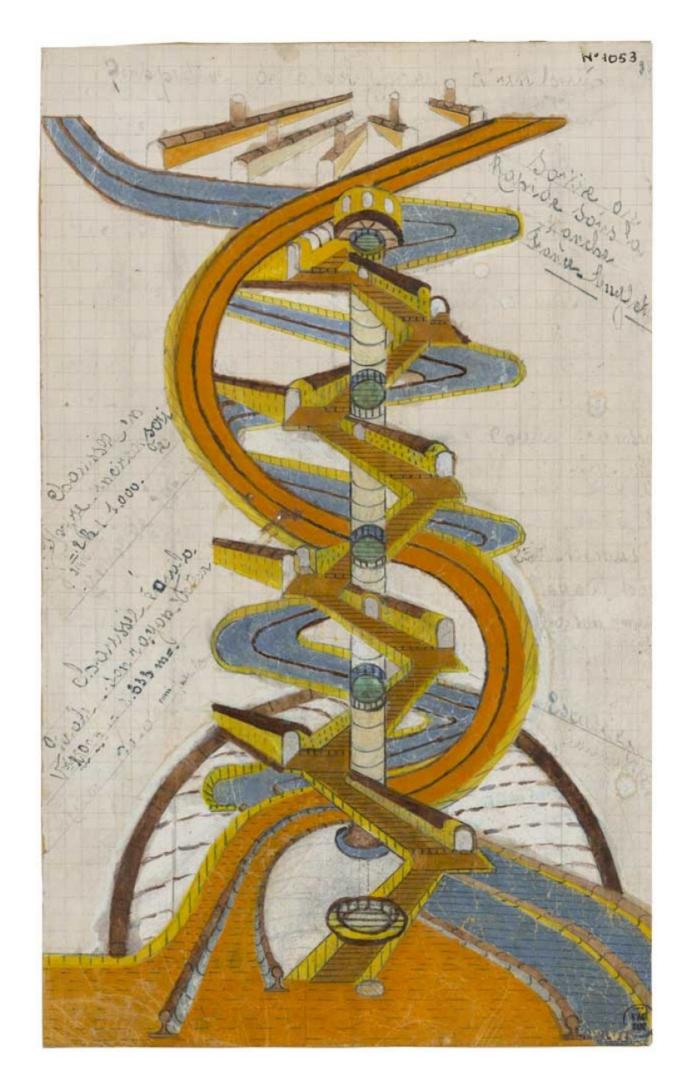
### ART BRUT

.The house is the extension of the soul.' C.G.Jung

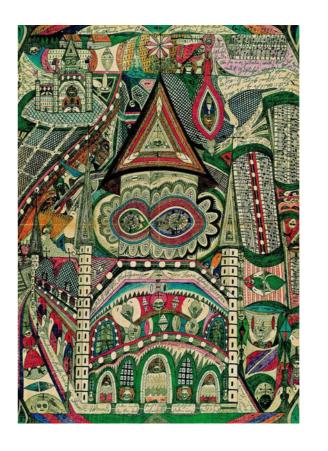
As our body gets sick, the inner perception of the body space changes and with the same and we don't feel to be a part of normal, we do not. In that state we are no longer a functioning member of the sociesociety can not integrate members, that them a vessel. But what if the division in healthy and unhealthy gets dissolved? What if we agree that all of us are somewhat craillness as a space creating factor? How can we bring a relief, to those, who feel "abby trying to force it back into normality?

In language we find many spatial expressions when talking about emotions. Falling into a deep hole feels familiar to most of us. hole. So how can an emotion evoke a spa-

Some answers we find in the book Die Erkrankung des Raumes by Koppen Vollmer: that the space around us deforms. The ,Body and space are one, are merely two same happens as we get a mental illness. states of one and the same connection, The world around us does not seem to be which differ in the distribution of attention and the proportions of the consciit anymore. As everything continues to be ous and unconscious, [...]. If the body deforms, the surrounding space deforms with it. If the body is infirmed, the space ty and we feel extremely isolated. As the as a whole becomes sick. The more rigid the boundaries of the surrounding space, deviate from the norm, the clinic provides the more cemented, functional and impermeable the architecture, the more the individual spirit suffers from the cramped maintenance of the standardized reality.' zy? How can we use the potential of the Without the intention of creating art, the authors of Art But are people from hindered circumstances. Be that a mental illness or normal" by integrating the abnormality into a mental handicap. To deal with their suffethe normality? How can we give illness a rings they use art in an autodidactic manspace that does not deny its right to exist ner, either in the context of a therapy or out of sheer necessity to express oneself. Very subjective visions of the world, including individual, distorted and phantasmasized views on architecture, reveal a glimpse into the minds, that see beyond the standardeven if we have never fell physically into a ized reality. Hence our projects tries to see illness as an asset and finds many beautiful tial experience that is even felt physically? and interesting inspirations in the Art Brut.







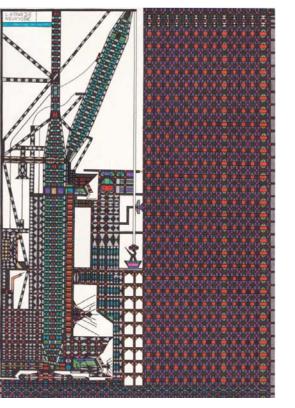


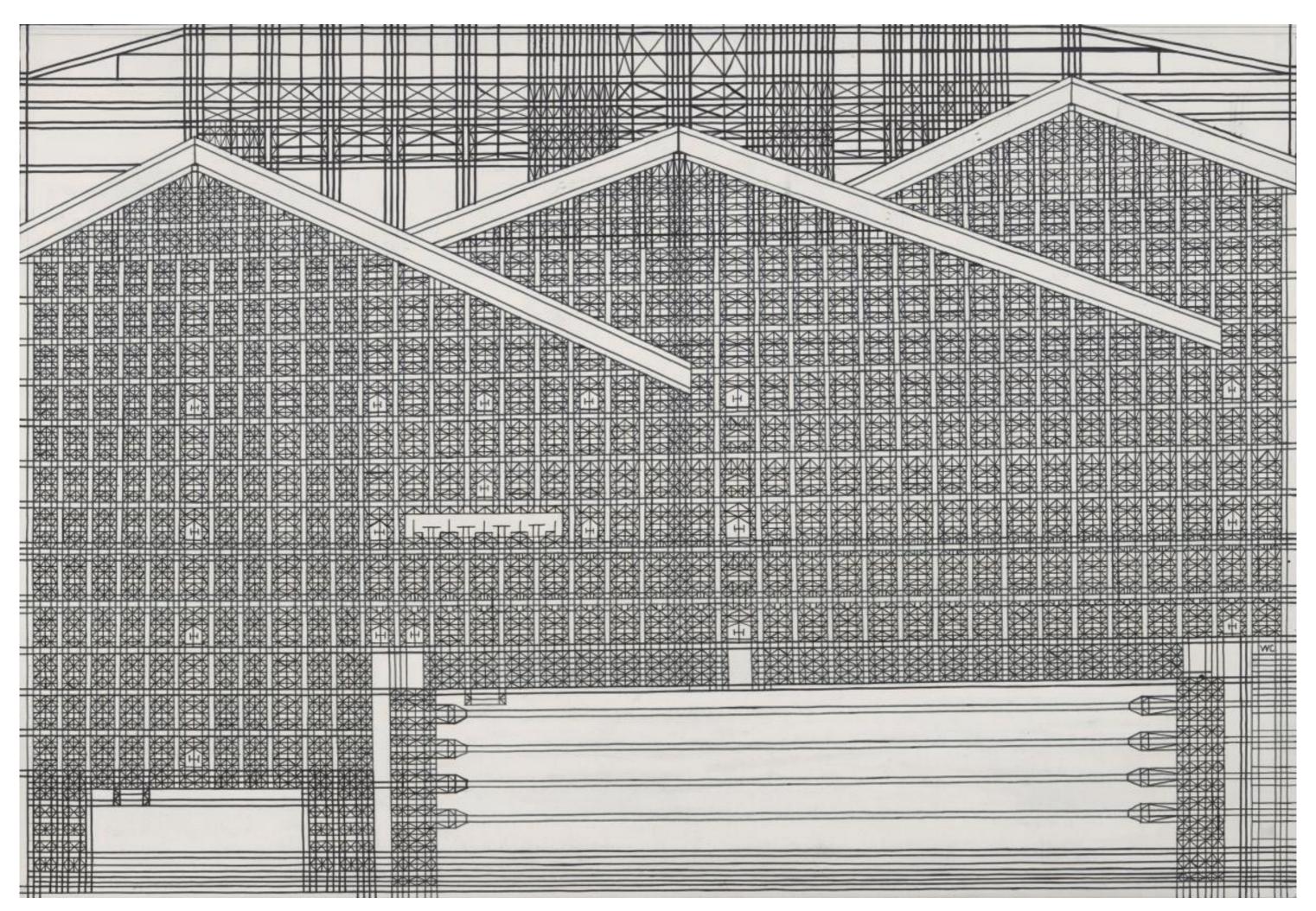
Marie-Rose Lortet, Maison de fils

Portrait of Alois Wey



La tour de New York painting by Diego





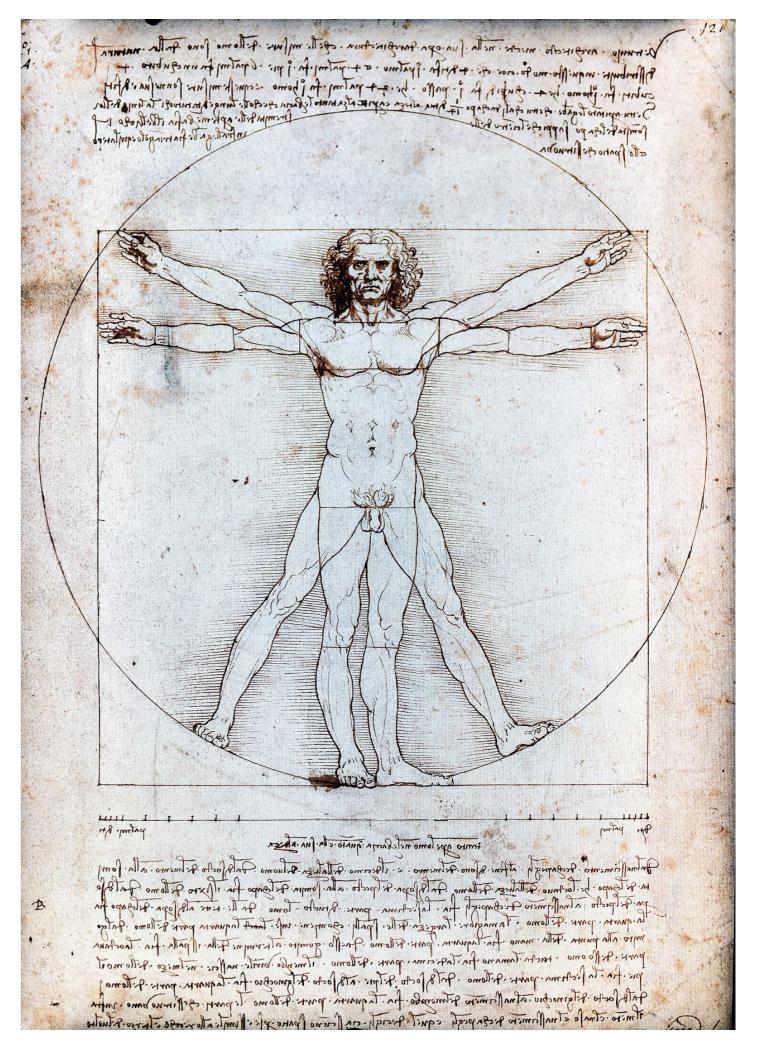
Vitruvian Man Leonardo da Vinci 1490

### FORM FOLLOWS EMOTIONS

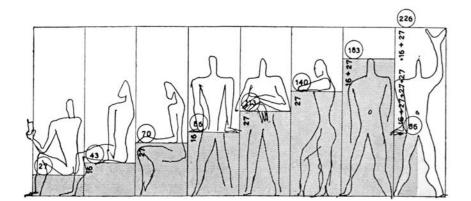
,We don't heal worlds with idyllic worlds. Rather, we should strive for a built environment in which mischief enjoys its raison d'être in a way that breaks the taboos, makes it visible and gives it a sense of identification. Koppen Vollmer

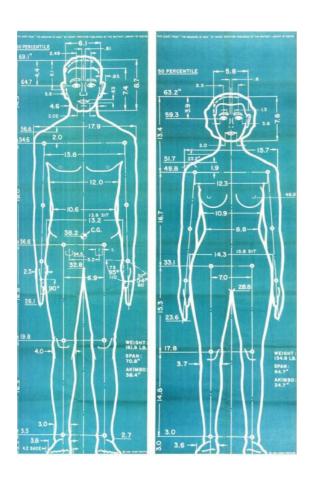
The human body has been used as a mea-created based on this system. sure throughout time in various ways. Anthropomorphism was and still is an idea afflicted with all sorts of contradictions and controversies, but it has repeatedly played support. In the Ten books on Architecture by Vitruvius the perfect man is described and was later used in Leonardo da Vinici's proportions. For architecture, however, this use of body as measurement focuses on the body as an organic, mathematical construction. This idea disappeared with Leon Battista Alberti's writings in which he bases architectural principles on proportions from music and harmony. Anthropomorphism has experienced a revival with Le Corbusier's Modulor, but again it is used not understood in a holistic manner. As all the ideal figures on which many scientific as one of the projects parameters. fields, including architecture, have based their principles on, are male, it has contributed a lot to the inequality between genders. Also with Joe and Josephine a normative body has been created. Their incarnation can nowhere be found in reality and as they do not include many, it can create great discomfort when interacting with objects

Only a modest number of architects succeed in seeing the unlimited spatiality of the body without prejudice as a psychological quality and use it to create space. In art a role in relation to architecture - both as a we see various examples of the permeation form of thought and as an argumentative of body and space. Oscar Schlemmer for examples uses the deformation of the body to experience space from anew and does not see architecture as a container, but drawing, depicting the ideal human body more as a possibility for transformation. Also in the endless house by Kiesler the enclosing space is seen as an extension of the body and a new housing typology evolves by combining spirituality and practicality. Instead of striving for highest efficiency and performance in a functionalist way, our project tries to go further than the body's biological marginality, by understanding the holistic vitality of it and continuing it as such as a mathematical figure and the human is in the enclosed space. Therefore one could define the dogma "form follows emotions"









Modulor Le Corbusier 1948

Joe and Josephine Henry Dreyfuss 1955

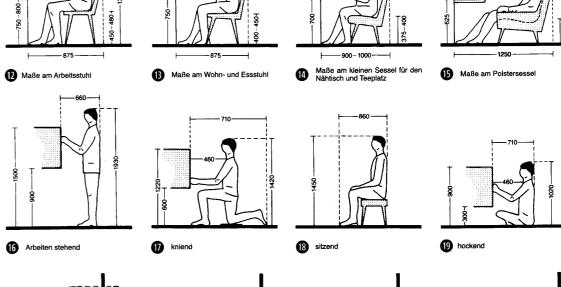
#### MASSGRUNDLAGEN UND MASSVERHÄLTNISSE KÖRPERMASSE UND PLATZBEDARF

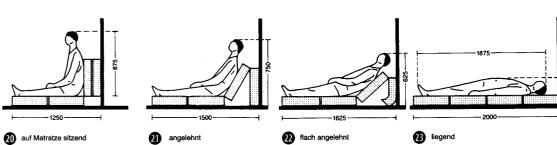
Grundlagen



Der Mensch als Maß und Ziel Das Maß aller Dinge Körpermaße und Platzbedarf geometrische Maßverhältnisse Maßordnungen









,It is a miracle that we as parasitic invaders do not go crazy in it [the house] and because of it. Maybe we have to bring some form of insanity into it first.

Frank Lloyd Wright

Cleary differentiated from the healthy, the Mediterranean cheerfulness of a "healing ber, living space for bacteria, we deny our incorporated part of our touchability, we do not want it to "suffer with us". Only the radicreators and the unleashing of the aestheof life of built environments will be orienpeople and the permeability of their physical boundaries, instead of remaining limited in the normal state. Suffering is an interior designer with a prohibition to work. Spatial anthropodysmorphism the keyword of modern times. When our efforts to create "Shaped by my contemplation space for the sick come to an end and we finally begin to give space to illness, a new era will arrive. It then consciously draws from the deviation from the normal state and finds in the room-anthropodysmorphic architecture the escape from the dialectic of our experienced space, which until now has always stood on two secure legs, black and white, ill-healthy, terribly beautiful. To abolish dysmorphism as an anomaly makes it possible to gain it as the third pole of architectural design. We do not vet know - perhaps never with certainty - whether this pole can be represented and proven as the "madness of the house" of Frank Lloyd Wright, as the "sadness of the buildings" of Alain de Botton or as the "body-space symbiosis" of Rem Koolhaas. Possibly even the

sick body forms its space. Dark, narrow architecture and beautiful living culture" and oppressive, it deforms it and awakens outlasts the temporal in the eternal claim the desire to move to a new bodily home, of human doings. With the recognition of which offers identification, refuge and a the ability of space to become diseased, perspective in the middle of the realization however, the loss of physical integrity and of being fragile, defenseless and finite. We the confrontation with one's own transienmake little use of this knowledge to shape ce and omnipresent threat to existence our living spaces. Although we accept our now reminds the creators of future spaces body as a space, as a cavity, birthing cham- to commit themselves not to healing but to alleviating it. Relief that we do not find in the built spaces their corporeality. Although the simple enlightening of darkness, but in the space is a product of our perception and an illumination of the ominous, the inhabitable access of the night side of our existence. For the case from normal reality deconscal change in the perception of space by its tructs the house of the cancer patient at the drawing table of the spiritual representation tics of "healing and beauty" will achieve that of his space. A space that, in its potent and the future structure, dynamics and quality homely external appearance, knows how to use scars, crusts and double membranes ted towards the limitless consciousness of as an enticement to the architecture with its affective anthrophodysmorphic tone, and as such could well have promised relief to Goethe, who was less in love but life-threateninaly ill:

> the corner helps me to love what is sick, because in him, space and time infinite (meaningless) appear"

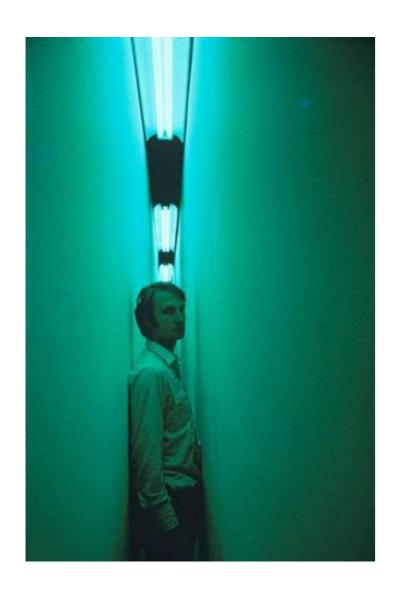


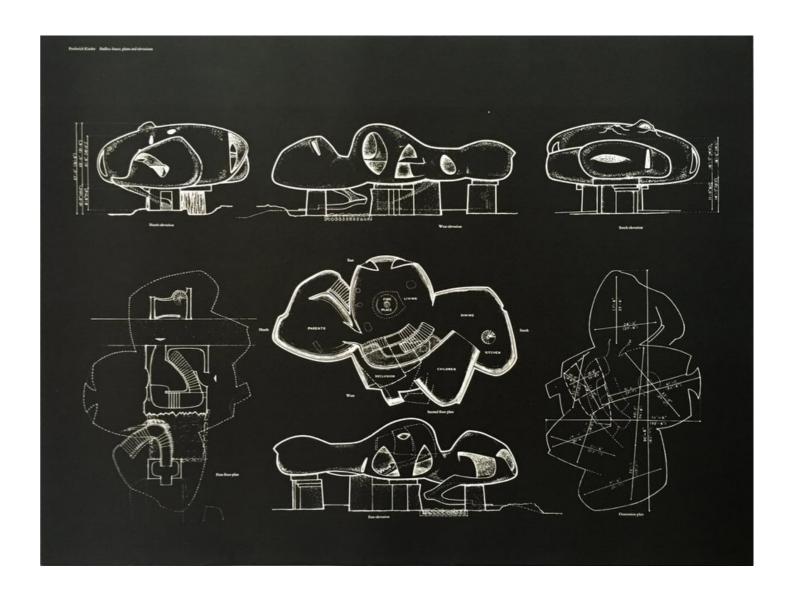






Closing Statement Die Erkraknung des Raumes Vollmer Koppen 2010

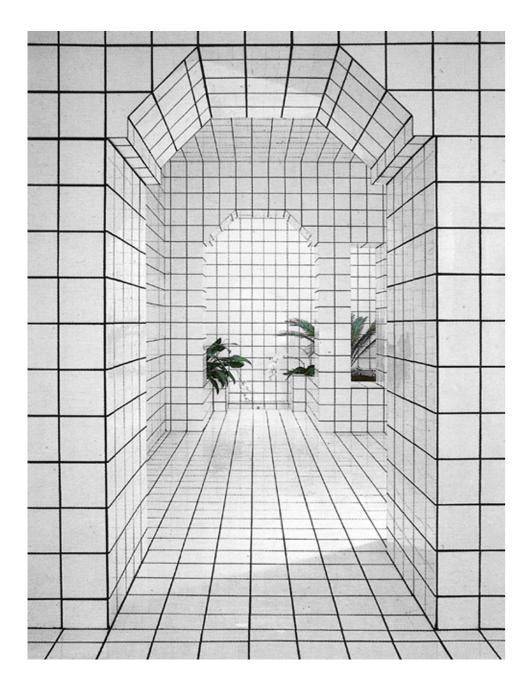






Corridors Bruce Nauman 1969

Plaster your Head and one Arm into a Wall Paul McCarthy 1973

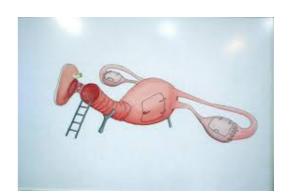


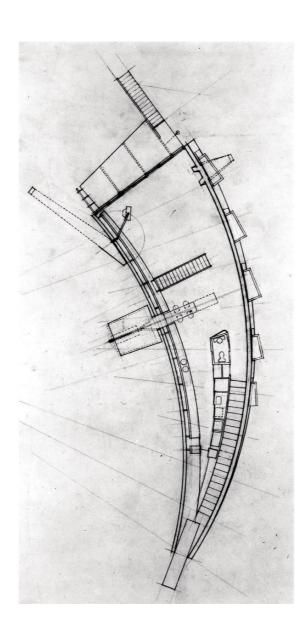




La Maiso de la celle-saint-cloud Jean-Piere Raynoud 1974



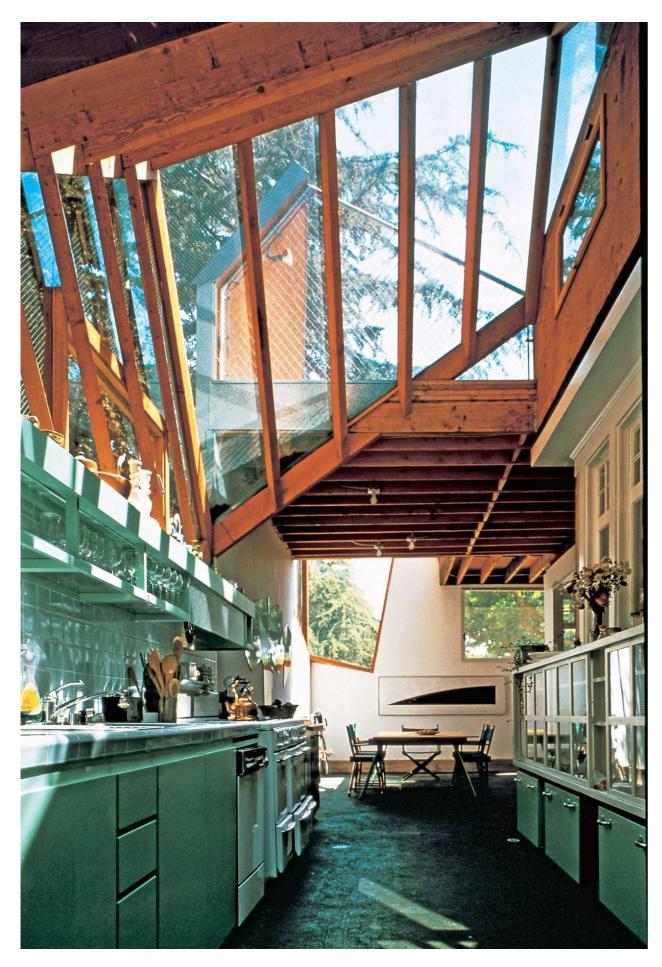








Wombhouse Atelier Van Lieshout 2004



Santa Monica House Frank Gehry 1978



Wie erleben Sie Ihren Wohnraum?

#### "Ich habe alles, was dunkel war, raus geworfen!

Alles vom Dunkel ins Hell verwandelt. Im Wohnzimmer mussten die dunklen Gardinen weg. Die Wände hab ich neu, sonnig angemalt. Die Möbel, die dunkel waren, habe ich weiß gestrichen, weil das Dunkel mich erdrückt hat. Mein Traum wäre, alles nur noch aus Glas zu haben, die Wände, das Dach. Nur Glas, ganz viel Glas, ganz hell, dass überall die Sonne rein kommt. Dann würden die Pflanzen einziehen, ganz viele Pflanzen, ganz viel Grün! Wenn ich schlafen gehen und mein Bett würde mitten im Raum stehen, könnte ich durch das Glasdach abends direkt in den Sternenhimmel sehen. Die unendliche Weite. Jeden Abend.

Schon jetzt sind die Sterne mein Trost und meine Zuflucht, wenn körperliche Schmerzen und die nächtlichen Ängste mich wieder verfolgen und mit mir ins Bett steigen wollen ..."



World Happiness Report 2020 Ranking of Happiness (Countries) 2017 - 2019

# **HAPPINESS**

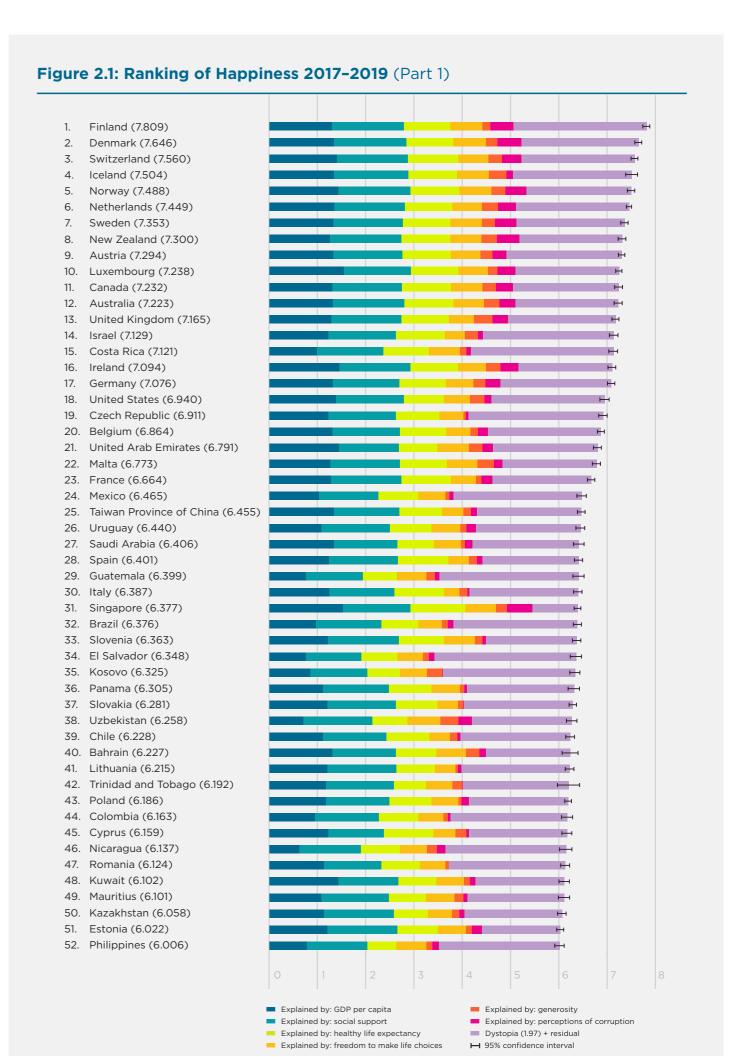
After the financial crisis in 2008 the means and values for measuring our life quality have shifted. The pure economic gross domestic product got questioned by global politics.

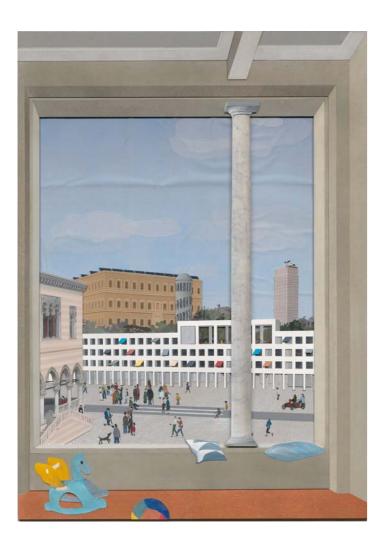
The question came up, how to measure The list of happiness by activities published well-being or the life quality of a country or city. The GDP got tackled by Indexes focusing more on Happiness. The government of Buthan is guided by the differently minded philosophy of the Gross National Happiness, in short GNH. The goal is to measure well-being in an alternative way and achieving happiness, defined as the "fundamental human goal."

The American analytics and advisory company Gallup Inc. collects in surveys a huge amount of data related to happiness. Questions like "How did you feel yesterday overall?" with an answering range from 0 to 10 result in the yearly published World Happiness Report, placing countries and cities in a ranking, which commodifies happiness and generates competition amongst the nations. Income, social support, values (generosity), freedom to make life choices, trust in government and health are the defined criteria and with that the key points of the definition of well-being.

by George MacKerron and Susana Mourato finally finds an implementation in architecture to a certain degree. The Water Street Tampa district is the first project that is going to be certified by the WELL building institute as a whole neighborhood, fulfilling given requirements of a point system. Collecting points in all the different criteria like air, water or light results, depending the reached amount, in different certifications. Despite the positive statement of this certificate the result leaves much to be desired due to questionable demands.

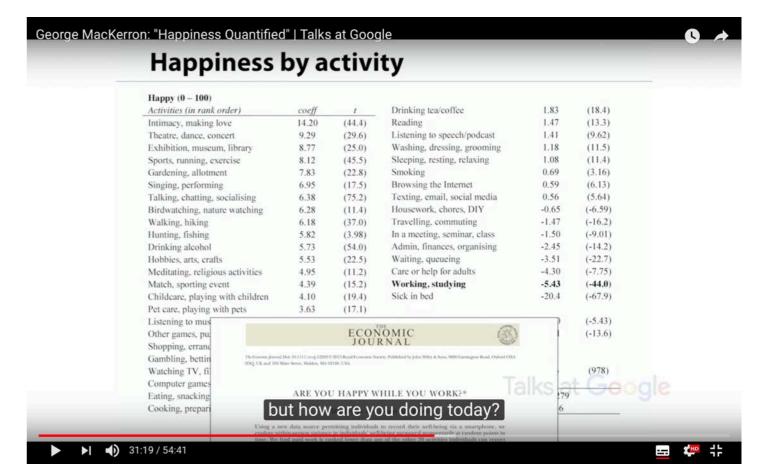
87







Exhibition "our happy life" CCA Collages made by Bovenbouw Architects







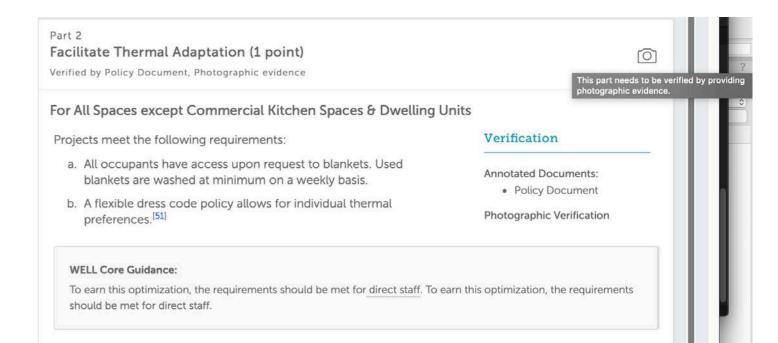
# Part 1 Provide Access to Nature

Verified by Professional Narrative

#### For All Spaces

A narrative describes how projects integrate and encourage occupant access to nature within the building and project site (external to the building) through the following:

- a. Direct connection to nature through at least two of the below:
  - 1. Plants.[32,38]
  - 2. Water. [32,38]
  - 3. Light.[32,38]
  - 4. Nature scenes (e.g., scenic views, nature views). [35,39]
- b. Indirect connection to nature through use of natural materials, patterns, colors or images.<sup>[32,38]</sup>
- Space layout, addressing placement of natural elements along common circulation routes, shared seating areas and rooms (e.g., conference rooms, common spaces) and workstations (as applicable) to enhance occupant exposure.



WELL building standard certificate Requirements of the point system



Vita Glas advertising

# **ENVIRONMENT**

The environment affects human experience and behavior, while humans shape and influence the environment according to their experience and behavior.

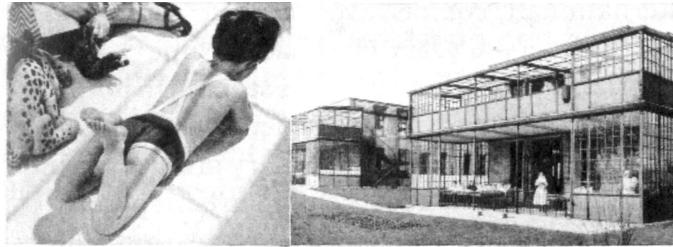
and nature takes. Therefore the beneficial factors, that natural phenomena have on and rise social competence. nature and culture dichotomy and thinking also our mental health. about a non-human architecture.

As many clinics in Switzerland take advantage of the beneficial factors of nature, such as greenery, unobstructed view and animals, they are located outside of the city. Also with the garden city movement an attempt was made to counteract the harmful consequences of industrialization and improve the living conditions of people. On the downside Suburbia was created.

Sunlight invokes the production of vitamin D and serotonin, which smoothens feelings of aggression, fear and sorrow and induces in return feelings of calmness and satisfaction. It also has an impact on sleep

Mental illness is something natural. It has and the body's temperature regulation. The always occurred throughout human history; slow movement of fishes for example has first documentations date back into ancient a calming effect on humans and caring for times. As simples as it sounds, nature gives an other living being, be that a plant or an animal, can reduce the feeling of loneliness

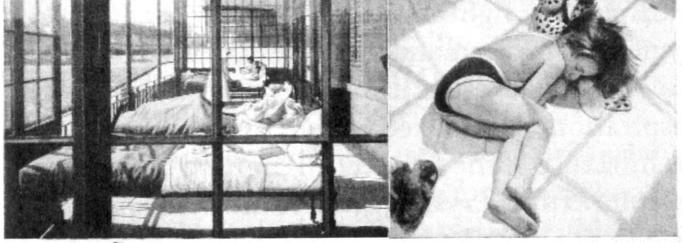
our mental health, are well researched and As we see a fundamental connection and find their implications in the environmen- awareness with nature having been lost. tal psychology. Environment has to be un- our project wants to reconnect humans derstood as a system and as we live in the with the 'natural' environment. Having a age of anthropocene a new thinking has to conscious interaction with ones surrounemerge, facing the challenge of undoing the ding would not only benefit the climate but



#### HEALTH RAYS OF THE



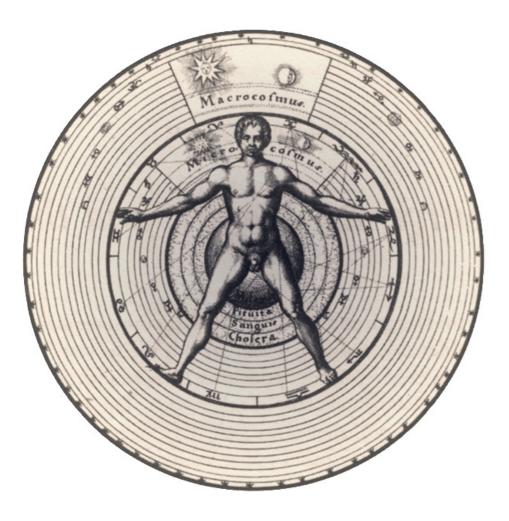
# DAYLIGHT PERMANENTLY THROUGH



# "VITA" GLASS WINDOWS

Ordinary window glass shuts out the ultra-violet health rays "Vita" cathedral by Mcllowes & Co. Ltd., Sheifield. of daylight, "Vita" Glass admits them permanently. The properties of "Vita" Glass do not faile away in a year or obtainable from local glass merchants, plumbers, glazicis two; they are guaranteed permanent, and that guarantee and builders. "Vita" is the registered trade mark of has been confirmed by tests made by the Building Research Pilkington Brothers, Limited, St. Helens, Station. (Write for copy of report 62/B.R.S. 36/12/4 - Nov. Lancs, whose Technical Department is 1933.) Two views are shown above of the "Vita" Sun available for consultation regarding proper-Balconies at Harrogate Infirmary. Roof glazing in a ties and uses of glass.

Side glazing in 25 plate "Vita" Glass. "Vita" Glass is

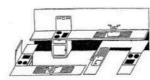




Man in the microcosm within the universal macrocosm Robert Fludd, 1617

Poster of Letchworth Garden city, 1925

- 20 The minimum provision should be an installation capable of heating the areas used for work and circulation to 55° F. and the living and dining area to 65° F., when the outside temperature is 30° F. Wherever family requirements will demand it, a more expensive installation capable of heating the bedrooms as well to 65° F. will represent the greater value for money. (69)
  21 Whether the minimum installation is provided or something capable of heating more of the house, there is a clear trend of demand towards systems which are clean and have little or no work associated with them. (70)
- 22 It is desirable that the occupier should be able to control the expenditure on heating
- 23 The costs of various ways of heating houses are considered in Appendix 2.
- 24 Thermal insulation practice should be brought up to at least the level of the new Model Byelaw 51A. (74-75)



- $_{25}$  Kitchens must be designed for efficient working and equipped with adequate drainers and worktops. A sequence is commended for general use. (79-81)
- or The design must provide for the housewife to keep washing machinery near the sink and space in or near the working area for additional machinery in the future. (83-86)

  7 Kitchens must have adequate storage, which we put at 80 cu. ft. for family houses. Almost as much is required in smaller homes. (87)
- Almost as much is required in smaller homes. (87)

  28 Accommodation for the storage of food should be reconsidered. A cool cupboard is nevertheless required. (88–99)

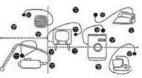
  29 Condensation in kitchens is a widespread and serious problem to which there is no inexpensive answer. (91–92)

- 30 The requirements for general storage are given in full in the Table on page 35.
- 30 The requirements for general storage are given in full in the Table on page 3531 Storage for garden equipment, bicycles, and other purposes is required for
  4 and 5 person houses at the rate of 50 sq. ft. per dwelling, clear of refuse containers, fuel bins and access ways. The storage space need not all be on the same
  floor, so long as there is at least 25 sq. ft. on the ground floor. (97)
  32 Flats and maisonettes should have storage comparable to that in a house. Four or
  more persons require 15 sq. ft. of general storage within the flat. There should be
  a separate store elsewhere of 20 sq. ft. for each flat, whatever the size of family.
  If the dwelling has a garden, additional storage is required for garden tools. (98)
  33 The storage arrangements in private enterprise dwellings should be improved
  upon. (101)

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34 The roof space should be put to wider use. (102)
35 For all except the main bedrooms (and preferably these as well) there must be clothes cupboards at the rate of 2 ft. of rail per occupier, not less than 2t ins. deep internally to allow for clothes on hangers. (103)

- 36 There should be space for hats, coats and outdoor footwear near the main entrance of the dwelling. (104)
  37 Every home must have a cupboard for the storage of linen that can also be used for airing or keeping dry. (105)
- 38 Storage for solid fuel can remain at 12 sq. ft., 20 sq. ft. for two appliances or in rural areas, and 9 sq. ft. for flats. (107-109)



D ELECTRIC SOCKET OUTLETS

39 To cope with the increasing ownership of electrical appliances and to avoid the dangers of trailing flexes, we recommend at least 15 electric socket outlets for the 5 person house. A scale is recommended which is applicable to dwellings of different sizes. The installation should be planned so that it can conveniently service future outlets. Research is needed into methods of doing this. (110–115)

E SAFETY IN THE HOME

40 A list of points against which a design can be checked for safety is given in Appendix 4. (116)



#### Aspects of living in flats

41 The human problem for the future in the design of flats and maisonettes is to provide for people who live in them an environment as workable and as satisfactory as for people who live in houses. The economic problem is to reduce the costs. (117-120)

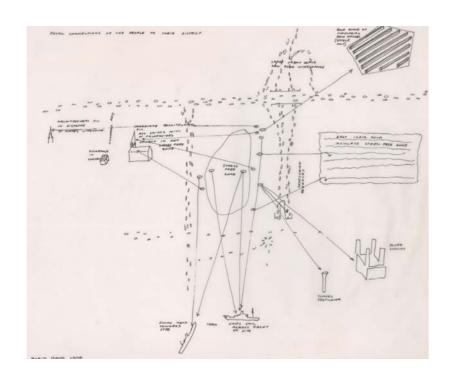
- 2 Present practice indicates that a lift service should be provided in buildings in which the entrance to any dwelling is on the fourth storey or above. In buildings of more than 6 storeys two lifts should normally be provided. (125)
  43 At least one lift should be large enough to take eight persons. (128)
- 43 In a state of the same though of the lift, the speed of travel, the arrangement of stops, the number of people living in the building, the peak traffic times and the frequency of maintenance. Insufficient information is available. (129)

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Parker Morris Committee: Homes for today & tomorrow, 1961

Adverstising for the Finsbury Health Centre Berthold Lubetkin, London, 1938



safe, comforting calm, light, bright, gentle, non clinical





Mural on a building in Kiev, 2018 Leonie Fuhrer



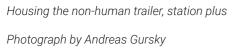
Keywords for the Maggie's centre Manchester Foster + Partner, 2016

Light therapy











Paintings by Nomata Minouru

CONNECT (SOCIAL BONDING)
the quantity and quality of social connections

KEEP ACTIVE physical activity

TAKE NOTICE being aware of thoughts and feelings

KEEP LEARNING participation and modification

GIVE pro-social rather than self-centred behaviour

SPACES FOR SOCIAL INTERACTION

SPACES FOR ENCOUNTERS

ORGANISATION

MOVEMENT

SUN / LIGHT

GREENERY / NATURE

ISOLATE / PRIVACY

NOISE

COLOUR

ADAPTABILITY

SMELL

**ATMOSPHERE** 

MEMORY

AIR

TEMPERATURE

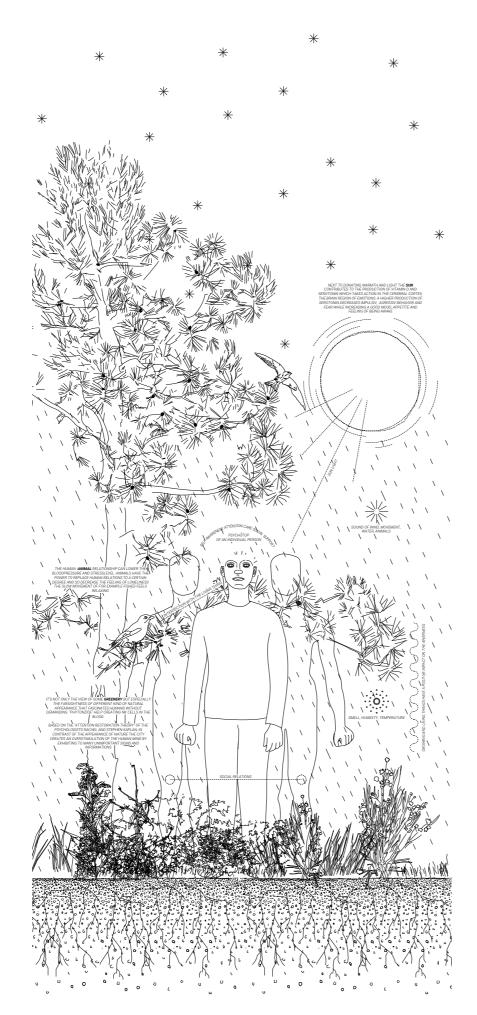
HYGIENE

SAFETY

VIEWS / TRANSPARANCY

CONTROL

**ACCESSIBILITY** 



#### **PSYCHOLOGICAL ENVIRONMENT**

#### **WEATHER CONDITIONS**

Light

Warmth

Serotonin and Vitamin D

Shadow WIND

Speed / Intensity

Duration Temperature TEMPERATURE 20-23°C

HUMIDITY 40-60% AIR PRESSURE 101'325 Pa

RAIN SNOW.

#### MOON

#### LIVING THINGS

HUMANS ANIMALS PLANTS.

#### AIR CONDITION

SOCIAL SPHERES SELF-AWARENESS.

**FAMILY** 

RELATIONSHIPS, FRIENDS WORKPLACE COLLECTIVE, CLUB.

CULTURE MUSIC DANCE

THEATRE.

ECONOMY

INCOME.

POLITICS
POLITICAL SYSTEM, STABILITY.

NATURE DIVERSITY; SHAPE, SIZE, COLOR, SMELL, USE.

NUTRITION HEALTHY NUTRITION.

SLEEP

QUALITY DURATION PRODUCTION OF MELATONIN

ACTIVITIES HOBBY SPORT

LEARN NEW THINGS PARTICIPATE RELAX

TALK

**SMELL** 

VISUAL SHAPE COLOR FARSIGHTNESS.

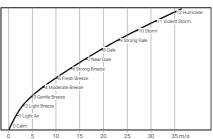
FEEL

SOUND NOISE < 75dB.

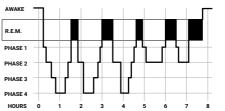
TASTE

#### DAYLIGHT / SUNLIGHT

UNCOMFORTABLE STARTING FROM BEAUFORT SCALE 7, 13.8 m/s, TREES SWAY & RESISTANCE TO WALK AGAINST THE WIND. DRY AND WARM FOEHN WIND HAVING A NEGATIVE INFLUENCE ON HUMANS WELL-BEING



FOOD SUCH AS BANANA, PINEAPPLE, ORANGE, RICE AND CEREALS CONTAIN MELATONIN



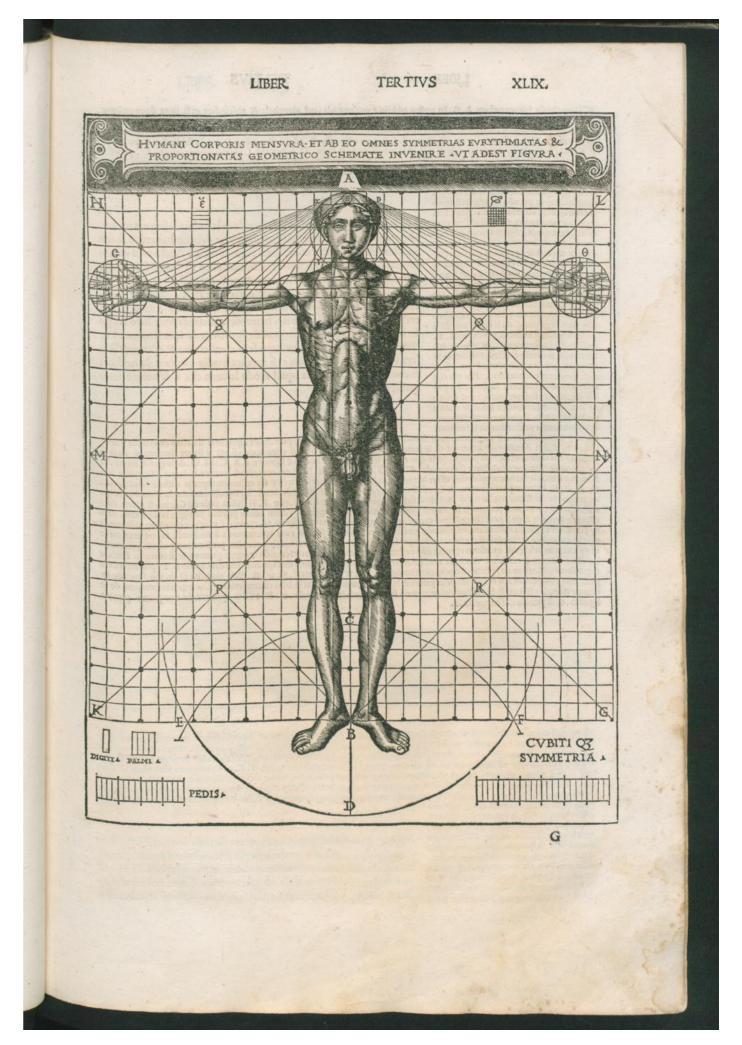
# **METHOD**

Several outdated building guidelines need to be guestioned by implementing the human being as a holistic living thing.

As an encyclopedia today we understand In Vitruvius ten books on architecture we share knowledge. The word encyclopedia first one γκύκλιος enkýklios which means metries and roman infrastructure. comprehensive or general and the second παιδεία paideía, signifies breeding and eduou Dictionnaire raisonné des sciences, des arts et des métiers published by Denis Diwas to gather all the current knowledge, to motivating to autonomous thinking, striving for the separation from religious and encyclopédistes worked on the finally 38 volumes, which are a fundamental artefact of the Age of Enlightenment.

a reference work, representing all kind of find the first encyclopedic work in the field knowledge of one or several disciplines in of architecture. In all the volumes he dean alphabetic or other systematic order. scribes the field of architecture precisely, This basically means to collect, order and deepening topics like the education of architects, fundamental principles of archiis composed out of two greek words, the tecture, urban planning, proportions, sym-

In the mid 16th century Sebastiano Serlio's work contributed explicitly to the contempocation. The purpose of the *Encyclopédie* rary needs of architects and builders. Even tough Leon Battista Alberti in 1486 published the first unillustrated reference work of derot and Jean Baptiste le Rond d'Alembert the renaissance in Latin, Serlio added high quality illustrations to the text, written in Itamake it available to everyone and thereby lian and sometimes French, which allowed him to reach a much broader audience. His work called Tutte l'opere d'architettura et absolut images of masteries. 142 so called prospetiva is also known under the title of I

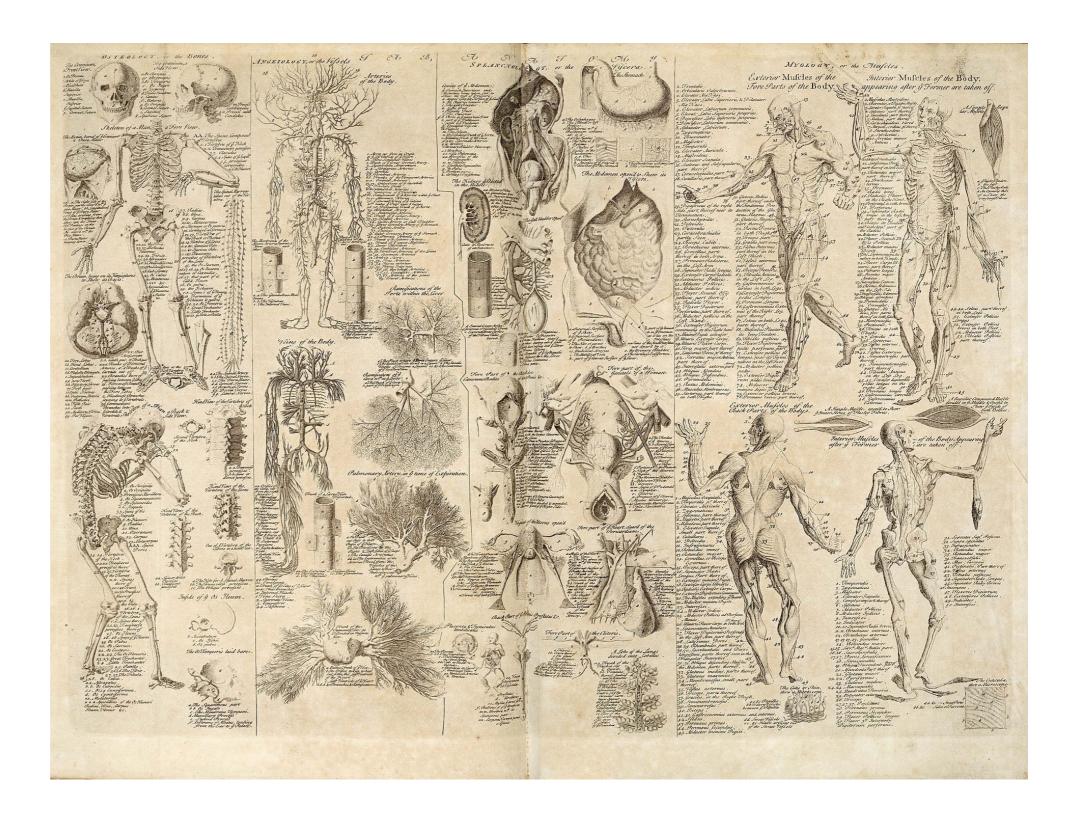


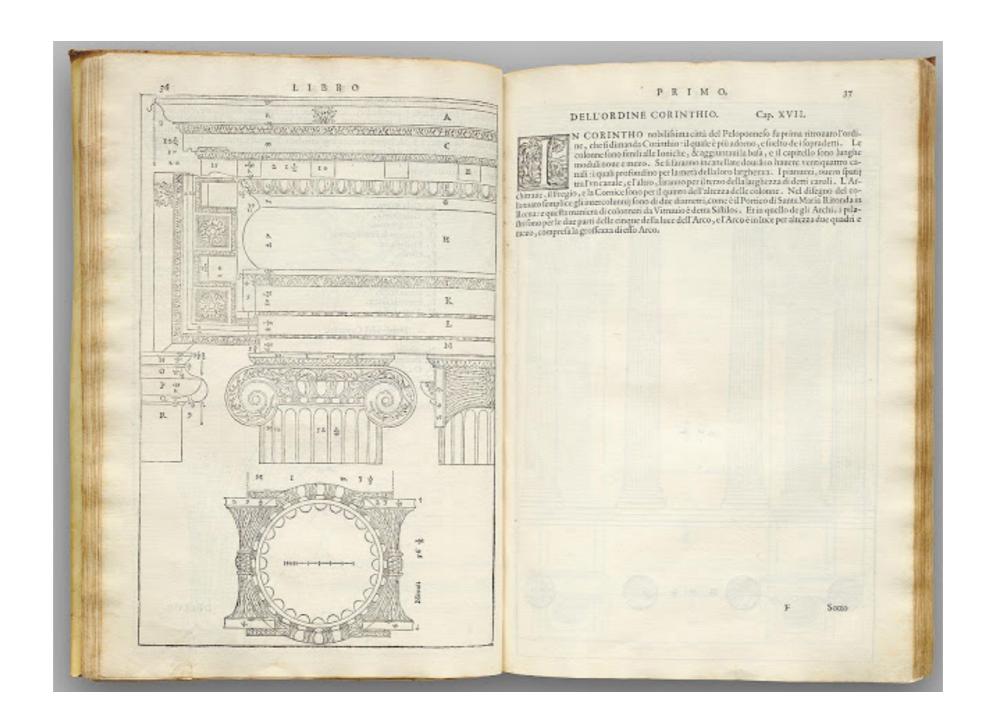
sette libri dell'architettura.

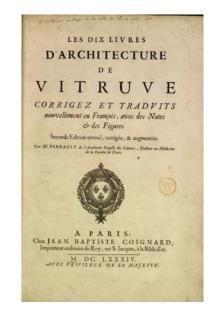
The idea and principles on how to build changed continually with time. During modernism there was a strong will of change, which consequently guided to new statements of what contemporary architecture should accomplish. Le Corbusier published a book called Vers une architecture, in which he illuminated some modern principles of his architecture. Within that the creation of the modulor, a normed measurement tool of the human body came up, referencing architectural space with all its components to an ideal dimensioned person. This can be brought back to a general standardization and mass production of industrial times. In 1936 the German architect Ernst Neufert published the book Bauentwurfslehre, which is a reference book focusing completely on standards and norms in the wide field of architecture. In 18 chapters, reaching from the very basics to building installations, it provides help to design functional buildings by providing extensive information about spatial requirements. The clear visualization of normality in dimensions, functions, habits and building process, ignore that the field of architecture is much more manifold. It should not reduce itself on definitions of norms when adressing human matters. The human is not considered as a holistic living being in architecture building manuals. ,Through the natural selection derived continuously over millions of years from his own

sense of beauty, man forms himself into an ideal of the beauty that dwells in him [...]. Beyond this, this proportion series seems, in the sense of Greek thought, to represent the general law of nature's germination [allgemeine Sprossungsgesetz der Natur] independent of man and his feelings.

Ernst Neufert, Bauordnungslehre, 1943

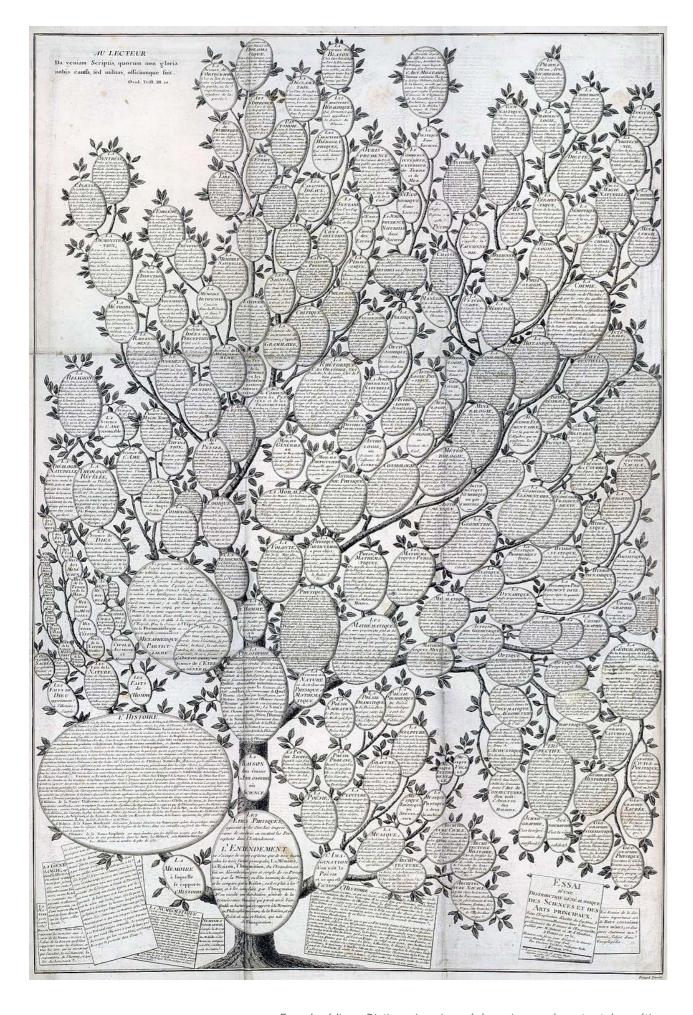


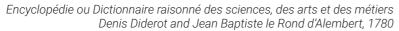


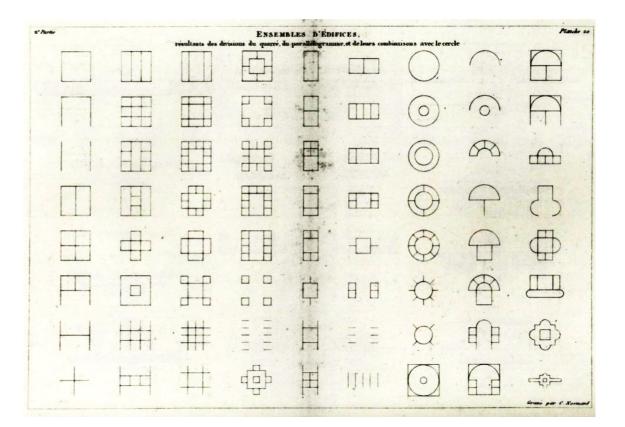


The four books of architecture Andrea Palladio, 1570

Vitruvius' Ten Books on Architecture, corrected and newly translated in French with notes and pictures Claude Perrault, 1673







BOOK I PREFACE THE EDUCATION OF THE ARCHITECT THE FUNDAMENTAL PRINCIPLES OF ARCHITECTURE THE DEPARTMENTS OF ARCHITECTURE THE SITE OF A CITY THE CITY WALLS THE DIRECTIONS OF THE STREETS; WITH REMARKS ON THE WINDS THE SITES FOR PUBLIC BUILDINGS **BOOK II** INTRODUCTION THE ORIGIN OF THE DWELLING HOUSE ON THE PRIMORDIAL SUBSTANCE ACCORDING TO THE PHYSICISTS SAND LIME **POZZOLANA** STONE METHODS OF BUILDING WALLS TIMBER HIGHLAND AND LOWLAND FIR **BOOK III** INTRODUCTION ON SYMMETRY: IN TEMPLES AND IN THE HUMAN BODY CLASSIFICATION OF TEMPLES THE PROPORTIONS OF INTERCOLUMNIATIONS AND OF COLUMNS THE FOUNDATIONS AND SUBSTRUCTURES OF TEMPLES PROPORTIONS OF THE BASE. CAPITALS. AND ENTABLATURE IN THE IONIC ORDER **BOOK IV** INTRODUCTION THE ORIGINS OF THE THREE ORDERS, AND THE PROPORTIONS OF THE CORINTHIAN CAPITAL THE ORNAMENTS OF THE ORDERS PROPORTIONS OF DORIC TEMPLES THE CELLA AND PRONAOS HOW THE TEMPLE SHOULD FACE THE DOORWAYS OF TEMPLES TUSCAN TEMPLES CIRCULAR TEMPLES AND OTHER VARIETIES BOOK V INTRODUCTION THE FORUM AND BASILICA THE TREASURY, PRISON, AND SENATE HOUSE THE THEATRE: ITS SITE. FOUNDATIONS. AND ACOUSTICS **HARMONICS** SOUNDING VESSELS IN THE THEATRE PLAN OF THE THEATRE **GREEK THEATRES** ACOUSTICS OF THE SITE OF A THEATRE COLONNADES AND WALKS RATHS THE PALAESTRA HARBOURS, BREAKWATERS, AND SHIPYARDS BOOK VI INTRODUCTION ON CLIMATE AS DETERMINING THE STYLE OF THE HOUSE SYMMETRY, AND MODIFICATIONS IN IT TO SUIT THE SITE PROPORTIONS OF THE PRINCIPAL ROOMS THE PROPER EXPOSURES OF THE DIFFERENT ROOMS HOW THE ROOMS SHOULD BE SUITED TO THE STATION OF THE OWNER THE FARMHOUSE THE GREEK HOUSE ON FOUNDATIONS AND SUBSTRUCTURES **BOOK VII** INTRODUCTION **FLOORS** THE SLAKING OF LIME FOR STUCCO VAULTINGS AND STUCCO WORK ON STUCCO WORK IN DAMP PLACES. AND ON THE DECORATION OF DINING ROOMS THE DECADENCE OF FRESCO PAINTING MARBLE FOR USE IN STUCCO NATURAL COLOURS

CINNABAR AND QUICKSILVER

ARTIFICIAL COLOURS. BLACK

WHITE LEAD, VERDIGRIS, AND ARTIFICIAL SANDARACH

SUBSTITUTES FOR PURPLE, YELLOW OCHRE, MALACHITE GREEN, AND INDIGO

BLUE. BURNT OCHRE

CINNABAR

**BOOK VIII** INTRODUCTION HOW TO FIND WATER RAINWATER VARIOUS PROPERTIES OF DIFFERENT WATERS TESTS OF GOOD WATER LEVELLING AND LEVELLING INSTRUMENTS AQUEDUCTS, WELLS, AND CISTERNS **BOOK IX** INTRODUCTION THE ZODIAC AND THE PLANETS THE PHASES OF THE MOON THE COURSE OF THE SUN THROUGH THE TWELVE SIGNS THE NORTHERN CONSTELLATIONS THE SOUTHERN CONSTELLATIONS ASTROLOGY AND WEATHER PROGNOSTICS THE ANALEMMA AND ITS APPLICATIONS SUNDIALS AND WATER CLOCKS BOOK X INTRODUCTION MACHINES AND IMPLEMENTS HOISTING MACHINES THE ELEMENTS OF MOTION ENGINES FOR RAISING WATER

WATER WHEELS AND WATER MILLS THE WATER SCREW THE PUMP OF CTESIBIUS THE WATER ORGAN THE HODOMETER CATAPULTS OR SCORPIONES BALLISTAE THE STRINGING AND TUNING OF CATAPULTS SIEGE MACHINES THE TORTOISE HEGETOR'S TORTOISE MEASURES OF DEFENCE

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Di Lucio Vitruvio Pollione de architectura libri dece

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#### LIBER

#### TERTIVS

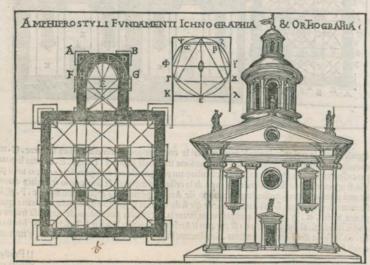
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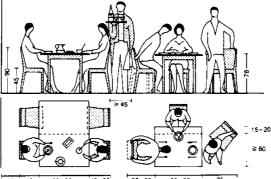
empta Sabini habent. Inde huc armati Superata ualle media tendunt : At tu Pater deum hominumg hinc faltem arce hostes : denie terrorem Romanis : fugam-13 fordam fiste hic ego tibi templum Stato ri Ioui: o monumentum sit Posteristua præsenti ope seruatam urbem esse uoueo hæe præcatus ueluti si sensistet uoueo ces hinc inquit Romái Iupiter Opt. Max, resistere ateg iterate pugnam iubes Resiste, re Romani tanqua cælesti uoce justi sipse

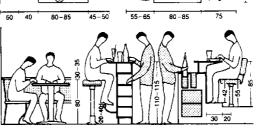
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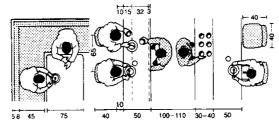


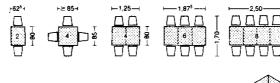
Mail Peripteros sara quale hauera in la fronte & nel postico sei colum ne: Et in li lati con le angularie undeci talmente che epfe columne collocate che lo interuallo de la latitudine del intercolumnio: sia da le pa riete circa a li extremi ordini de le columne. Et había la ambulatione circala cella de la æde per quel modo che e in lo portico de Metello. de Ioue statorio: o di Hermodio & a li Mariani il templo del honore & de la uirtute, facto da Mutio senza postico.

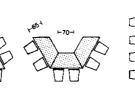
ad primiores Romulus uolat. C. Hermo/
dio. fu nominato Mercurio p che e dicto interpte de li Deì. φ græ. hermes dicif. Et a li Mariani ben che in uno margine de uno dio. fu nominato Mercurio p che e dicto interpte de li Dei. o græ. hermes dicif. (Teta li Marianiben che in uno margine de uno texto e sta scripto Martiana ma molti dicco Marianasides loci che sono così da Mario denominati de li honori dil quale Mario le/gerai de la uita di epso in Plutarcho & uederai li gradi honori & le aureæ statue che gli sece assentare Caio Cæsare nel Capitolio : ma Vitruuio dice che questa Aede era si como quella de la Dea del Honore in lo quale templo no era licito ad alcuni intrare se prima no passaua per lo templo de la Dea Vittute : adeuidente cosquisõe quisti dui templo nos era licito ad alcuni intrare se prima no passaua per lo templo dela Dea Vittute : adeuidente cosquisõe quisti dui templo nos era licito ad alcuni intrare se no essere licito potere confequire honore senza Vittute . questa cola si ha da molti digni auclori : così no solum in Roma erano costituiti si templi a queste sorte de Deæ : ma a molte altre: como templum Pacis & sic de multis alis consimilibus secundum diui nos esses et et perso Vittutuio dice questa ædes sa da dunio : cioe quello excellente & costiniso Mutio dil quale narra Liuio libro secundo ab urbe condita dil quale diro qualche cosa breuemère: Quello no hauendo potuto occidere il Re Porsena & in cambio di quello hauendo occisto uno suo Canzellero: in præsentia di Porsena si bruso la mano: minazado afaia esso dicendo che etiam. 300. Gioueni Romani sono di cocordia iurati occidere esso Porsena: Et non hauendo potuto lui occiderlo che certo no scampara da qualcumo deepsi soi compagni. Per la qual così hauendo ueduro Porsena tanta costantia durata per il soco dibitando speraltri no esse e conciu describito per questo libro lo asfedio de la Ciuita di Roma: Questo teplo aduncha era como uedi in la figura: ma circumalato: cioe in Circo sa sto in uolte seu sono le porte de la fronte & postico: laltre so/no de le ante exteriore: & doue, G. H. pono esse concluy deno la cella: si como uedi per la fignatice de le littre: & doue sono le littere. F. sono le porte de l

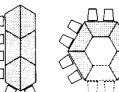


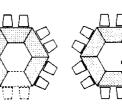


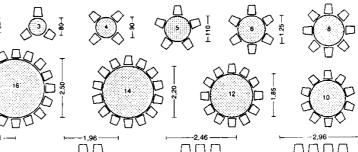


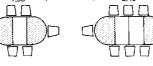












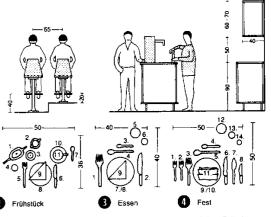
#### **GASTRONOMIE GASTSTÄTTEN**

GASTRONOMIE

siehe auch Essräume S. 154

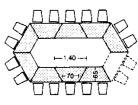
Um bequem essen zu können, braucht eine Person Tischfläche von rund 60 cm Breite u. 30–40 cm Tiefe. → 10 – 10 Dadurch genügend Abstand zum Tischnachbarn. In der Tischmitte wird ein 20 cm breiter Streifen für Schüsseln, Schalen und Terrinen benötigt, so dass eine Gesamtbreite von 80-85 cm für einen Esstisch ideal ist. Bei Tellerservice reichen 70 cm und bei Schnellgastronomie 60 cm Tischtiefe aus.

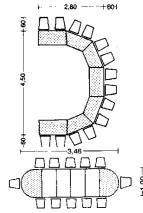
Abstand zwischen Tisch und Wand ≥ 75 cm → 10 , denn schon der Stuhl braucht 50 cm Stellfläche. Dient der Raum zwischen Tisch und Wand auch als Durchgang, sollte der Abstand ≧ 100 cm betragen. Runde Tische brauchen etwas mehr Stellfläche, Unterschied bis zu 50 cm.



eck 1: Tee- o. Kaffeekanne; 2: Milchkanne; 3: Marmelade-

Frühattücksgedack 1: Toe- o. Kaffeekarine; 2: Michkanne; 3: Marmelade- o. Bullerdose; 4: Zuckerdose; 5: Desserfabel; 6: Desserfabel; 6: Dessertmesser; 7: Kaffee- bzw. Teelöffel; 8: Dessertleler; 9: Sarviette; 10: Untertasse; 11: Kaffeedasse; 1: Bouillon- o. Nachtschlöffel; 4: Essöffel; 5: Bierglas; 6: Wein- o. Dessertweinglas; 7: Suppontellor; 8: Esstoller; 9: Serviette Featgedeck 1: Desserfgabel; 2: Fischgabel; 3: Speisegabel; 4: Bouillon- o. Nachtschlöffel; 4: Essöffel; 5: Essöffel; 5: Essöffel; 5: Speisermesser; 7: Fischmesser; 8: Dessertmesser; 9: Suppenteller; 10: Essteller 11: Serviette; 12: Bierglas; 13: Rotwein- oder Weißweinglas; 14: Likör- o. Dessertweinglas





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Di Lucio Vitruvio Pollione de architectura libri dece Book III, 1521

#### THE MANUAL OF THE DWELLING

Demand a bathroom looking south, one of the largest rooms in the house or flat, the old drawing-room for instance. One wall to be entirely glazed, opening if possible on to a balcony for sun baths; the most up-to-date fittings with a shower-bath and gymnastic appliances.

An adjoining room to be a dressing-room in which you can dress and undress. Never undress in your bedroom. It is not a clean thing to do and makes the room horribly untidy. In this room demand fitments for your linen and clothing, not more than 5 feet in height, with drawers, hangers, etc.

Demand one really large living room instead of a number of small ones.

# IKEA 1985

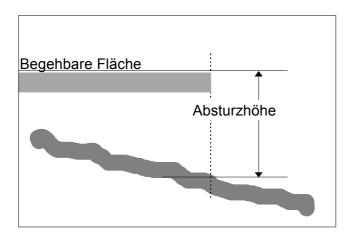


Varsågod, 300 sidor heminredning med Moment-soffan i spetsen för alla nyheter, med starkare erbjudanden än någonsin och priser som gäller ett helt år. Lägg fram den! Låt den ge dig nya idéer och spartips året runt. Katalogen gäller från den 30 juli 1984 t o m den 28 juli 1985.

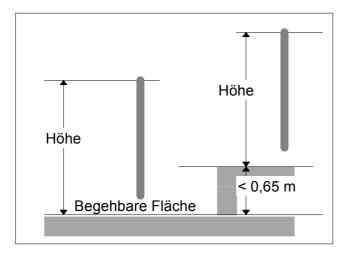
PRIS 10:-

## **ANHANG 1 Schemazeichnungen**

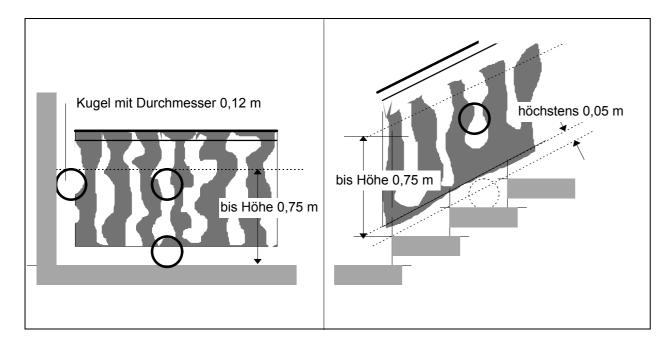
Ziff. 2 11 Absturzhöhe



Ziff. 3 11 und 3.12 Höhe Schutzelemente



Ziff. 3 22 Offene Geländer und Treppen

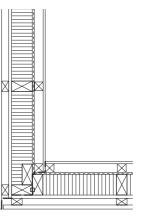


SIA-Norm 358 "Geländer und Brüstungen"

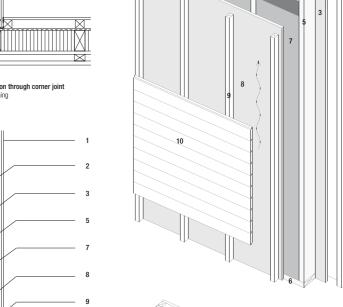
MATERIALS - MODULES

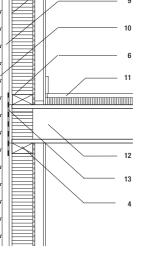
Timber

# Fig. 51: Timber platform frame element, layers and sheathing 1 Internal lining, 12 mm 2 Vertical battens (services), 50 mm 3 Wood-based panel (vapour-tipith, 12 mm 4 Frame: head binder, 60 x 120 mm to 60 x 200 mm 5 Frame: stud, 60 x 120 mm to 60 x 200 mm 6 Frame: bottom plate, 60 x 120 mm to 60 x 200 mm 8 Insulation, e.g. ISPCLOC, 120-200 mm 8 Bitumen-impregnated wood fibre insulating board, 18 mm (airtight) 9 Vertical battens, ventilation cavity, 40 mm 10 Horizontal sheathing, 24 mm 11 3-ply board with tongue and groove, impact sound insulation 12 LIGNATUR box element 13 Airtight membrane over butt joint 14 Counter battens, 40 mm (needed to guarantee vertical continuation of ventilation cavity) 15 Horizontal battens, 40 mm 16 Vertical sheathing, 24 mm

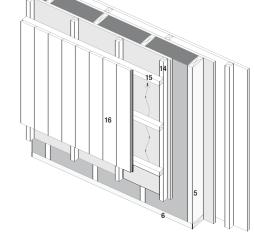


Horizontal section through corner joint Horizontal sheathing



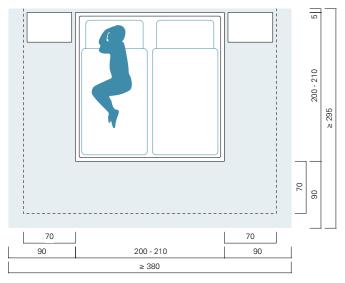


Section through wall-floor junction Horizontal sheathing

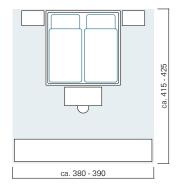


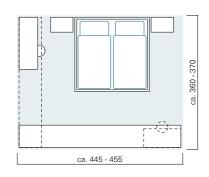
Axonometric view of layers Horizontal sheathing (top) and vertical sheathing (bottom)

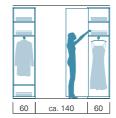
#### Schlafen



Stell- und Bewegungsfläche beim Doppelbett. Gestrichelt dargestellt ist die Mindestbewegungsfläche (70 cm) und zusätzlich die empfohlene Bewegungsfläche (90 cm) um das Bett und der daraus resultierende Platzbedarf, M 1:50







Ankleideraum, empfohlener Bewegungsraum etwa 140 cm, M 1:100

#### Orientierung

Individualräume sollten Besonnung erhalten. Für die Orientierung der Räume ist daneben die Abschirmung von störendem Lärm und anderen Umwelteinflüssen zu beachten.

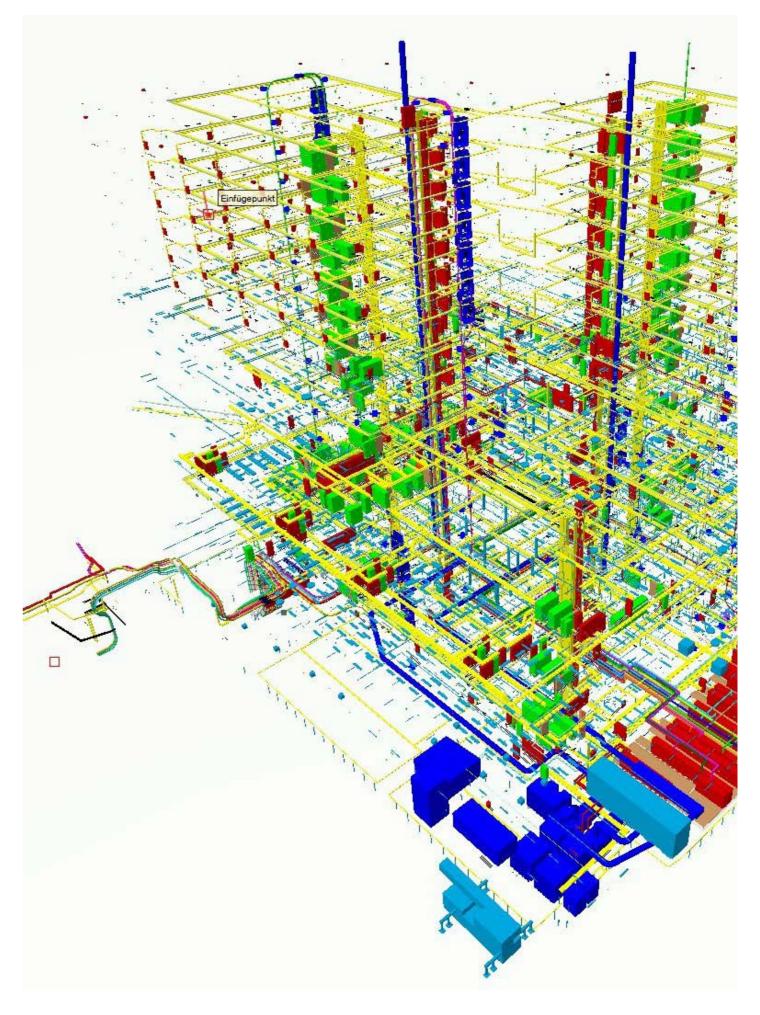
#### Raumdimensionierung

Für Individualräume sollte möglichst eine nutzungsneutrale Raumgröße mit mindestens 14 m² bis 15 m² eingeplant werden (siehe Kapitel "Nutzungsneutral").

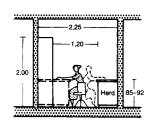
Eine Verkleinerung um circa 2 m² ist möglich, wenn die Flächen für Kleider- und Wäscheschränke und für das Ankleiden an anderer Stelle vorgesehen sind (zum Beispiel in einem getrennten Ankleideraum).

Flächenbedarf bei unterschiedlicher Anordnung der Möbel, M 1:100

Raumpilot Grundlagen 235



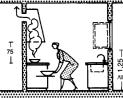
Raumpilot Grundlagen Thomas Jocher, Sigrid Loch, 2012



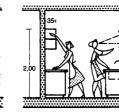
### Küchenquerschnitt mit 2 Arbeits-

Erschließung Küchen bereiche Bäder enräume

мво DIN 18022 DIN EN 1116



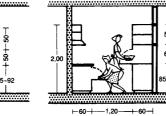
Tief liegende Herdzüge beanspru-chen angemessenen Bewegungs-raum; über Kochstellen Abzug anordnen



2 Küchenquerschnitt mit Platz für 2 Personen



Durchreiche zwischen. Küche, und Essplatz mit darüber liegenden Geschirrfächern; nach beiden Sei-



0

Arbeitsablauf

zu erreichen sein  $\rightarrow$  **3**.

te Lampen erfolgen  $\rightarrow$  **7**.

Öffnen der Fenster zu vermeiden  $\rightarrow$  3.

Abstände berücksichtigt werden.

Die Anordnung der Kücheneinrichtung soll einen rationellen und

kräftesparenden Arbeitsablauf ermöglichen. Neben einer sinn-

vollen Reihenfolge der Geräte, Stell- und Arbeitsflächen → S. 150

können Arbeitsabläufe auch durch gegenüberliegend angeordnete

Die Küche kann darüberhinaus durch entsprechend versetzte An-

ordnung der Arbeitsflächen und Geräte bei gleichem Platzbedarf

Hochschränke und Ablagefächer sollten den entsprechenden Ar-

beitsbereichen sinnvoll zugeordnet werden und müssen problemlos

Arbeitsflächen mit auf die jeweilige Tätigkeit abgestimmten Höhen

Küchen sind häufig benutzte Bereiche innerhalb der Wohnung und

Es ist sinnvoll, Fensterbrüstungen in ausreichendem Abstand über

den Arbeitsflächen festzulegen, um ein Abräumen der Flächen zum

Die Anordnung von Schaltern und Steckdosen sowie der zusätzli-

che Platzbedarf von Vorwandinstallationen, Heizkörpern und deren

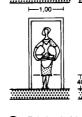
Rohrleitungen sollte bereits bei der Planung der Stellflächen und

können die Küchenarbeit nicht unerheblich erleichtern  $\rightarrow$  \$.

müssen deshalb bequem und einfach zu reinigen sein  $\rightarrow \mathbf{0}$ . Die Beleuchtung sollte durch unter den Oberschränken angeordne-

Arbeitsflächen optimiert und verkürzt werden  $\rightarrow$  1.

von zwei Personen gleichzeitig benutzt werden  $\rightarrow$  **2**.

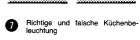


Zwischen Anrichte u. Speisezimmer am besten in Tritthöhe beschlagene Tür

HAUSRÄUME

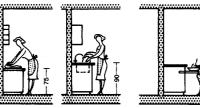
KÜCHEN



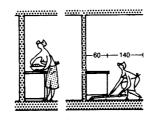




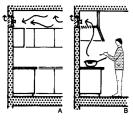
Übliche Tischhöhe von 85 cm liegt zwischen günstiger Arbeitshöhe für Backplatz und Spültisch



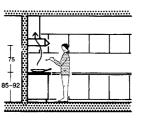
Ausziehbare Arbeitsplatte für Tätig-keit im Sitzen vorsehen



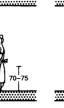
4

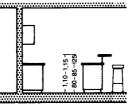


9 Künstliche Entlüftung durch Ventila-tor (A) oder Wrasenabzug (B)



10 Dunstabzugshaube





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154

16 An der Essbar

154

rasewives, despite its good HAUSRÄUME KÜCHEN hexilly Pacis Arbeitsablauf Die Anordnung der Kücheneinrichtung soll einen re ittaanerunden Arbeitsablauf ermöglichen. Neben einer sinnvollen Reihenfolge der Geräte, Stell- und Arbeitsflächen → S. 150 können Arbeitsabläufe auch durch gegenüberliegend angeordnete Arbeitsflächen optimiert und verkürzt werden → 9.00 (active Die Küche kann darüberhinaus durch entsprechend versetzte Anordnung der Arbeitsflächen und Geräte bei gleichem Platzbedarf vor wei Persone gleichzeitig benutzt werden → ●. H-60+ 1,10-1,20+60-Hochschränke und Ablagefächer sollten den entsprechenden Arbeitsbereichen sinnvoll zugeordnet werden und müssen problemlos zu erreichen sein → . that about de HAUSRĀUME Arbeitsflächen mit auf die jeweilige Tätigkeit abgestimmten Höhen können die Küchenarbeit nicht unerheblich erleichtern → . Küchen sind häufig benutzte Bereiche innerhalb der Wohnung und ereiche Băde müssen deshalb bequem und einfach zu reinigen sein  $\rightarrow$  3. Die Beleuchtung sollte durch unter den Qberschränken angeordnete tampen erfolgen → . 324 MBO den Arbeitsflächen festzulegen, um ein Abräumen der Flächen zum DIN 18022 DIN EN 1116 Öffnen der Fenster zu vermeiden → . Die Anordnung von Schaltern und Steckdosen sowie der zusätzliche Platzbedarf von Vorwandinstallationen, Heizkörpern und deren Rohrleitungen sollte bereits bei der Planung der Stellflächen und Arbeits- und Ablagetische 60 cm tief Abstände berücksichtigt werden. 2 Zvischen Anrichte u. Speisezimmer am besten in Trithöhe beschlagene Tül 6 men 2 weren soos this lock 9 Künstliche Entlüftung durch Vertöletor (A) oder Wasenabzug (B)

Dunstabzugshaupe

> Bauentwurfslehre reworked Davide Morgillo & Jana von Wyl

# CAN WE CHALLENGE ARCHITECTURAL METHODOLOGIES AND MANUALS BY IMPLEMENTING THE HUMAN AS A HOLISTIC LIVING BEING?

Our work starts from the premise that today's building standards are outdated as they originate from a stigmatizing definition of normality. Moreover the work wants to bring the human mind into the architectural discussion of creating space. Within that, different manuals like the Bauentwurfslehre, which had an enormous influence as it was printed in 42 German editions and translated into 18 languages, will be revisited. We see those documents as the nucleus of modern building practice, and its result is widley visible in the built environment. The question now is, if we can create a more "subjective-Neufert" by bringing in all the above determined parameters, such as collectivity, environment, emotions. The building guidelines will be adapted and complemented by considering mental well-being as a fundamental human need, that contemporary and future architecture should provide. It will then be tested out in an active design. Imagining an alternative design method based on subjectivity and emotions implies a fundamental reassessement of western architecture norms and codes as a core design tool.

