

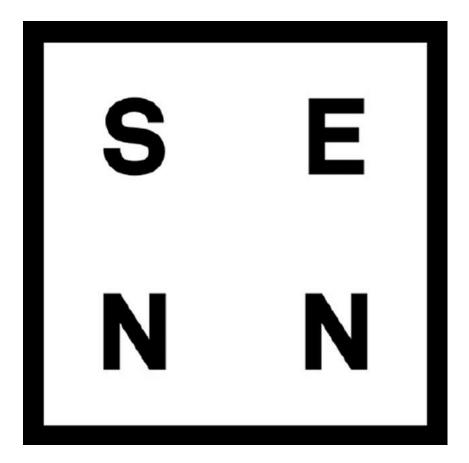
House Of Research Technology Utopia and Sustainability



A statement in radical sustainability in Basel's main innovation district 10'000m<sup>2</sup> of next-level office workspace, ready to move in 2025

The logent was a solution





S E N N



Liebe zum Ort – Entwicklung, Planung und Realisierung von Immobilien





Ein

für

Kloster

Kulinarik





B-Hive ≡ Zürich







SENN sucht Land













Ein Hochhaus wacht am Triemliplatz



Pionierbau an der Piccardstrasse





S E N N











SENN in den Medien.



#### A SENN development with Herzog & de Meuron architects

SENN was founded in 1965, is privately held and has previously gained a reputation for developing commercially viable real estate projects with particularly high standards in architecture.

#### In 2018 SENN management decided this was not enough

Commercial viability and ambitious architecture got a fierce little sister: radical sustainability. Starting with HORTUS, every SENN project is kicked off with rigorous sustainability requirements which are given the exact same importance as its economical and architectural requirements. sia Umsicht Award 2013: NOERD

Gute Bauten Stadt Zürich 2011-2015: NOERD

sia Umsicht Award 2017: Zwicky Süd

Architekturpreis des Kantons Zürich 2016: Zwicky Süd

Hochparterre «Die Besten» 2016: Zwicky Süd

Label des Deutschen Werkbunds 2018: Gesamtschau

Gute Bauten BL/BS 2018: HELSINKI DREISPITZ



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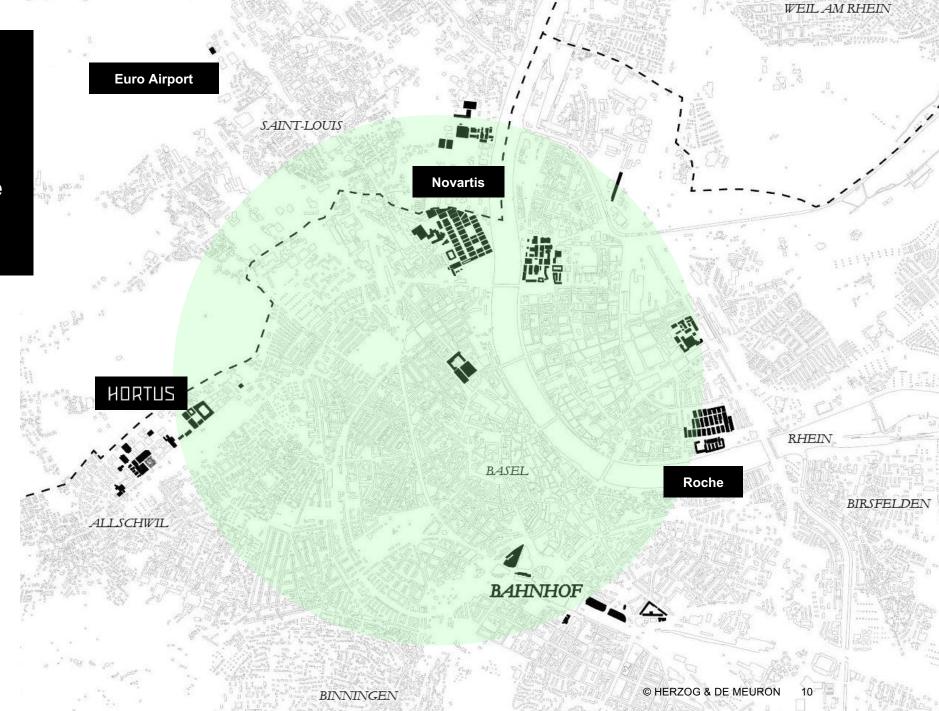


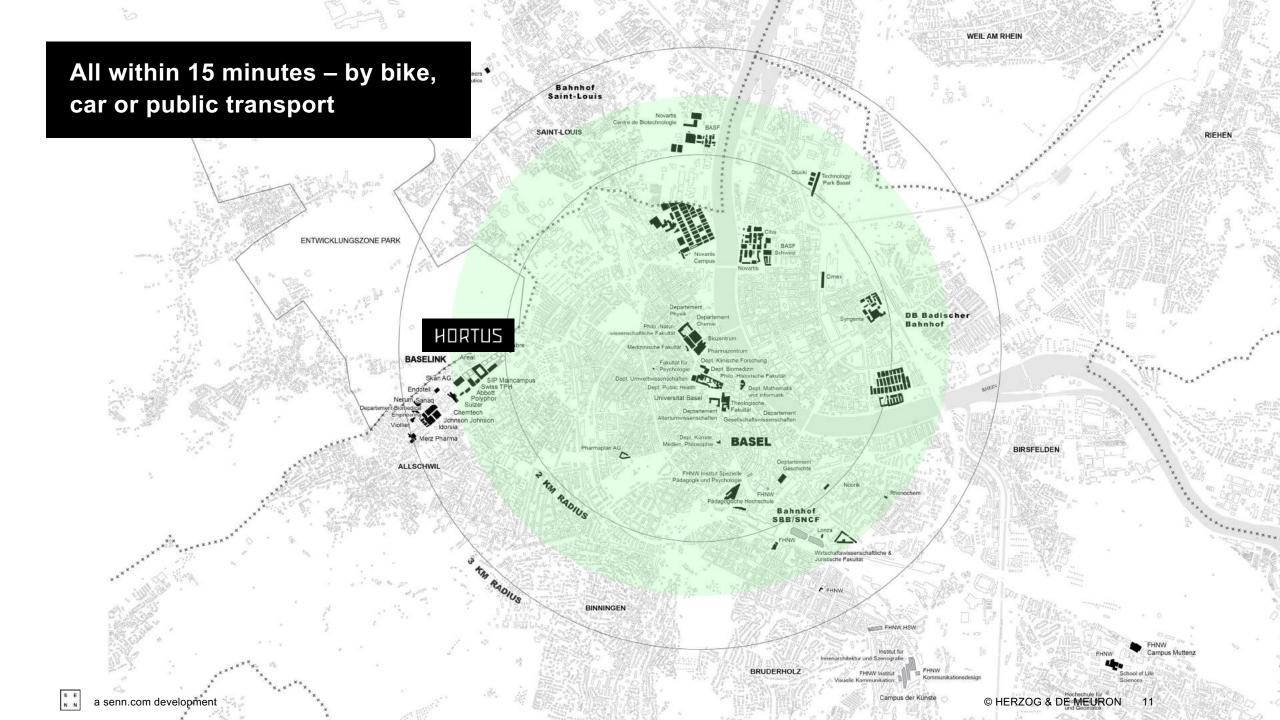
## HORTUS is part of Basel Area a tri-national life sciences hotspot of global importance



HORTUS is mid-way between Euro Airport and Basel Train station

In a triangle with Roche and Novartis campus

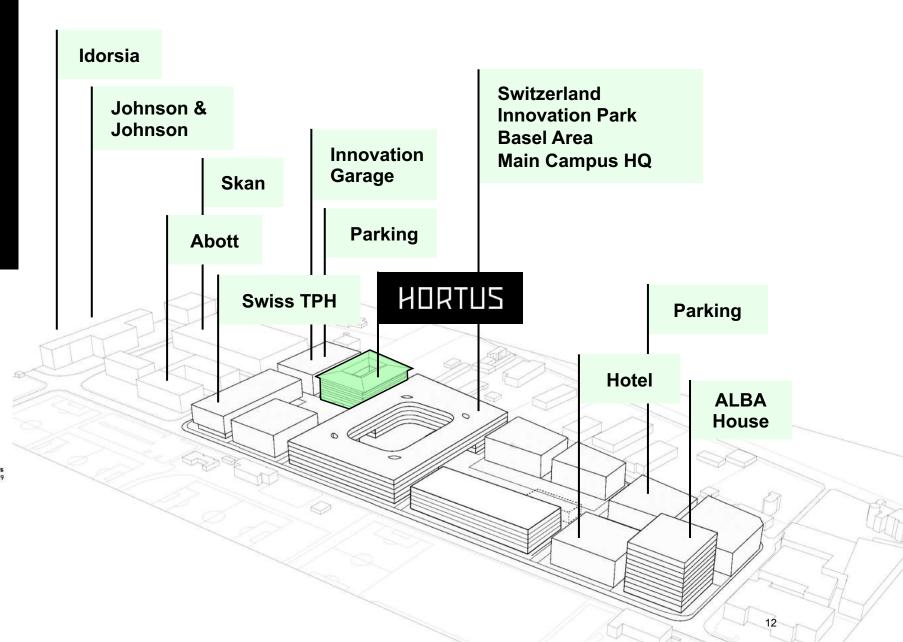




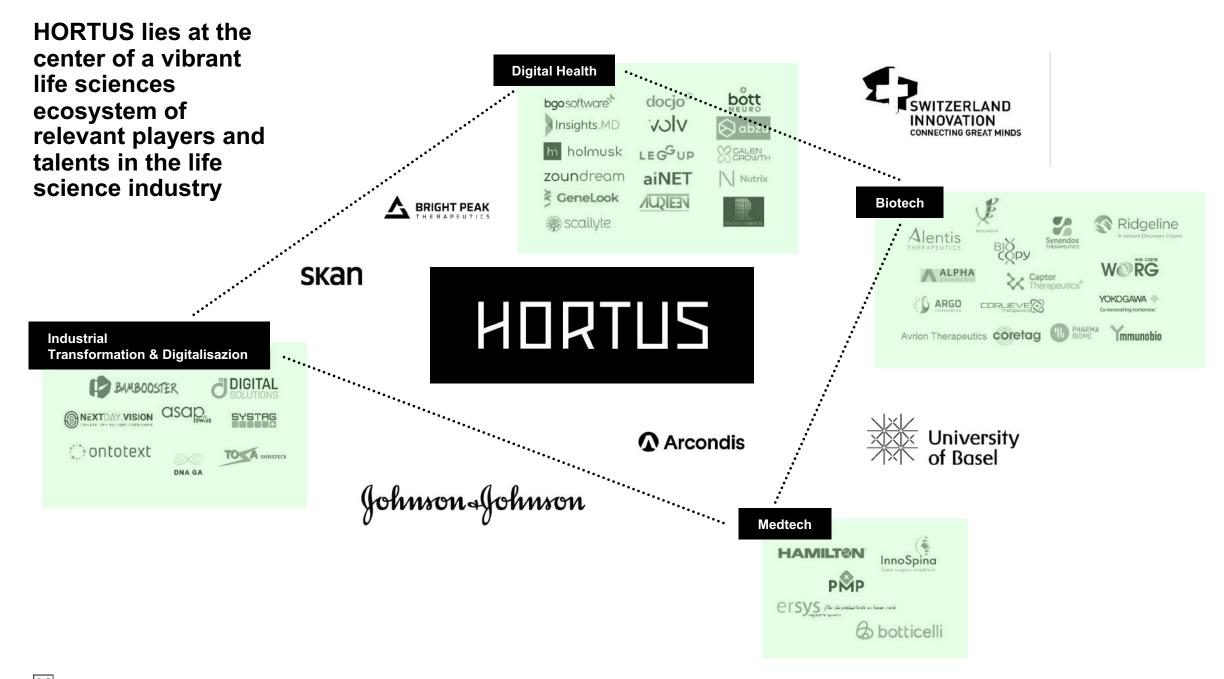
## HORTUS is part of the Main Campus of Switzerland Innovation Park Basel Area.



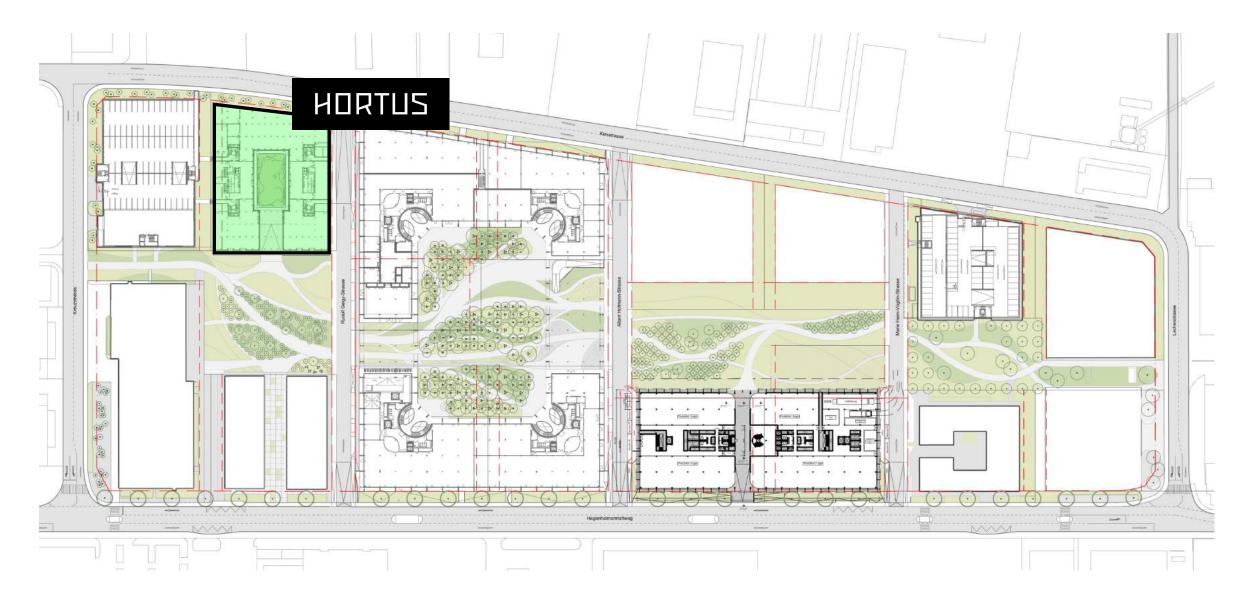




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HORTUS is part of a 75'000m<sup>2</sup> innovation campus along a green park lung. First protagonists moved here in 2021. The last will move here in 2028.

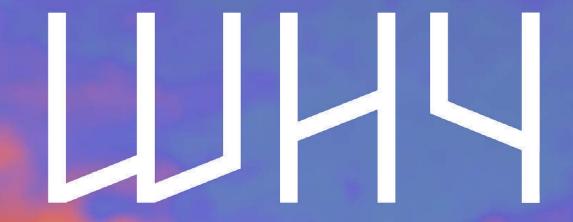


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# HORTUS

Model view by Herzog & de Meuron



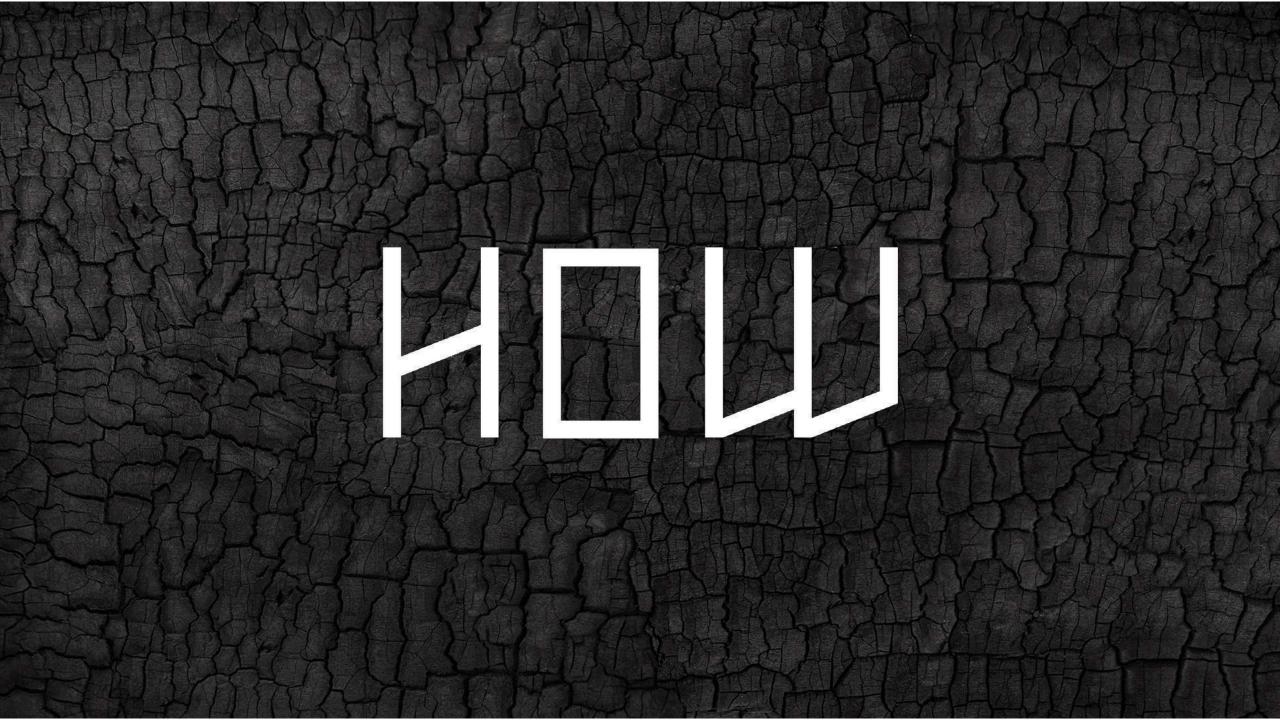
# WHY?

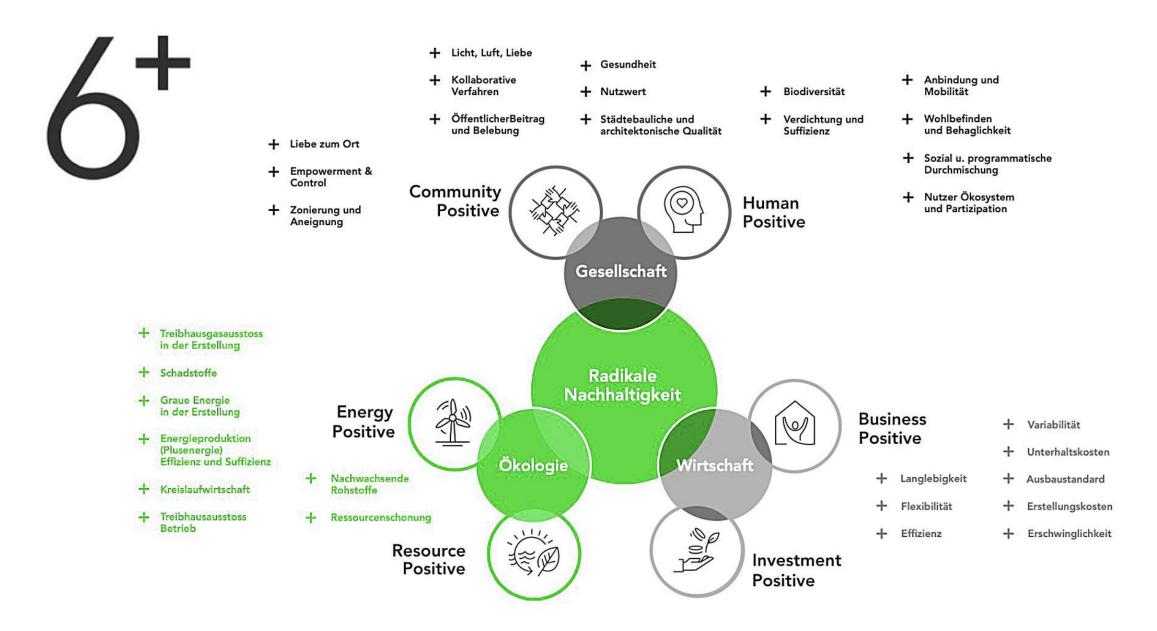
The built environment contributes significantly

- to the functionality and aesthetics of our cities
- to individual, corporate and public budgets
- to the energy and carbon footprint of society
- to quality of life today and in the future

Radical sustainability requires us to look all these challenges in the eye, with a vector of minimum 60 years from today's decision.

#### A vector that long had better be pointing in the right direction





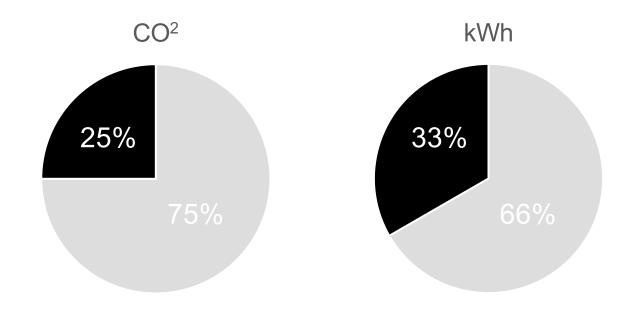
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## The new new: 5 Years between Main Campus and HORTUS

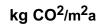
a senn.com development

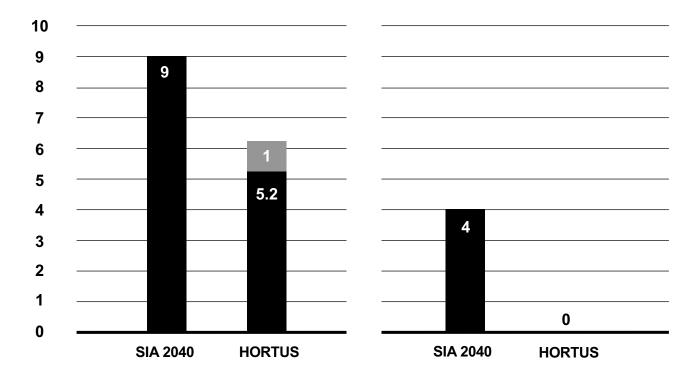


## SIA 2040 EFFIZIENZPFAD ENERGIE NETTO-NULL-ZIEL FÜR 2050:



#### TREIBHAUSGASE

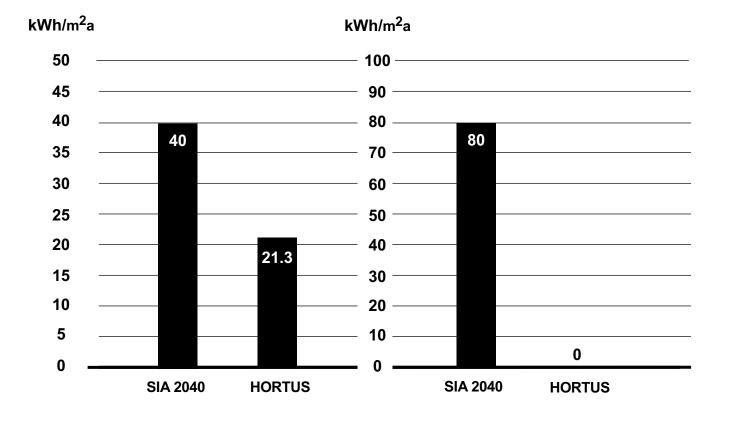




ERSTELLUNG

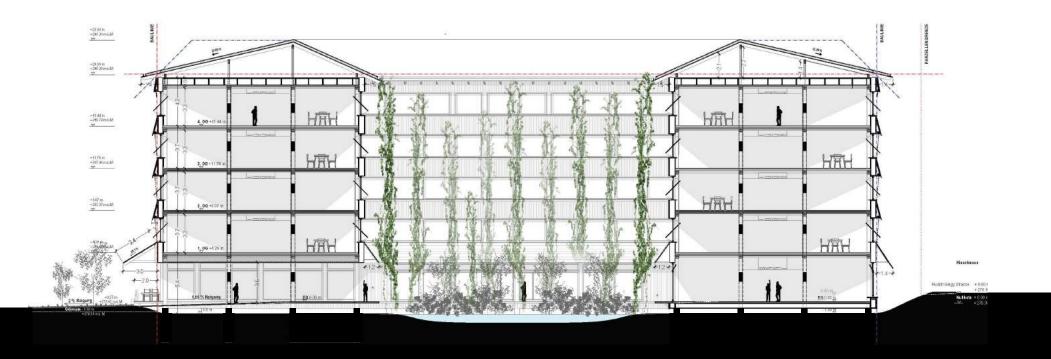
BETRIEB

## NICHT ERNEUERBARE PRIMÄRENERGIE



ERSTELLUNG

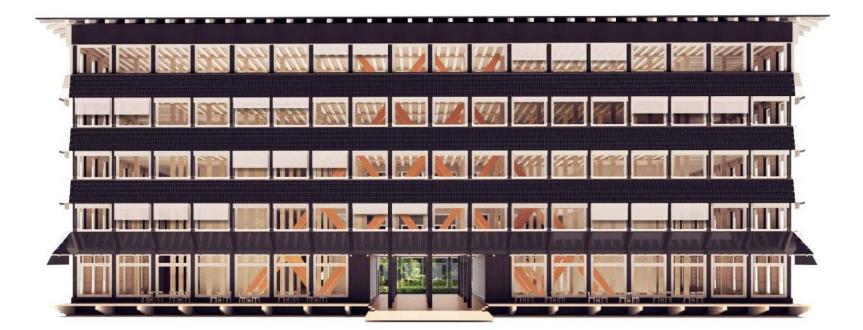
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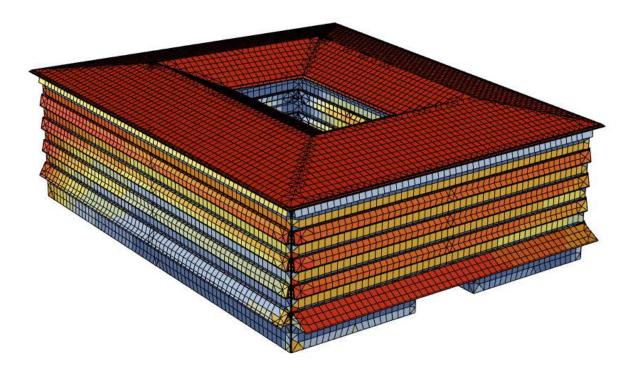






## PHOTOVOLTAIK

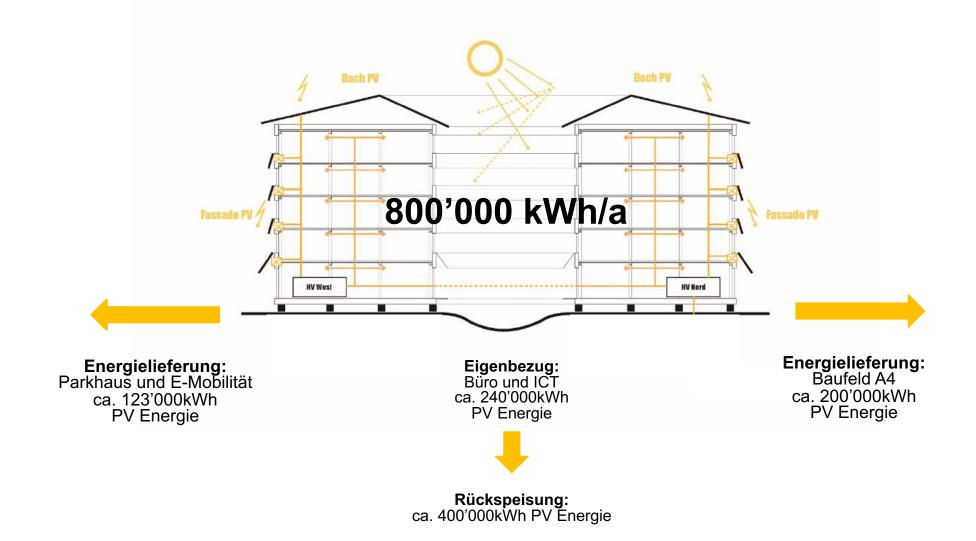




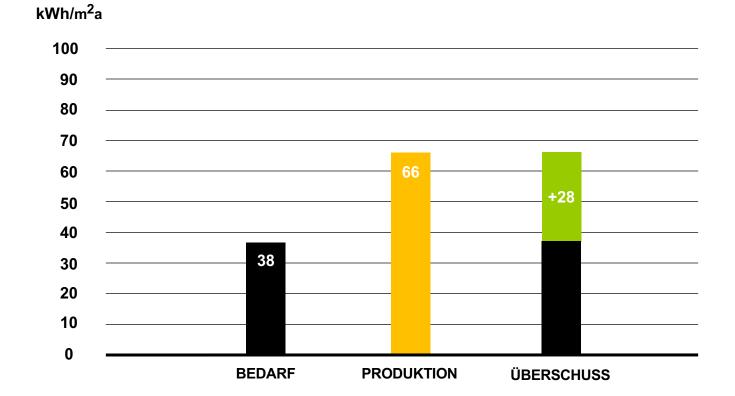
5000 m<sup>2</sup> Photovoltaik (EBF 12'500 m<sup>2)</sup>

### **ENERGIEERZEUGUNG MIT PV ANLAGEN**

PV DACH: 650 kWp -> 653'000 kWh/a; PV FASSADE: 337 kWp -> 150'000 kWh/a; Direktbezugsquote ca. 70 %

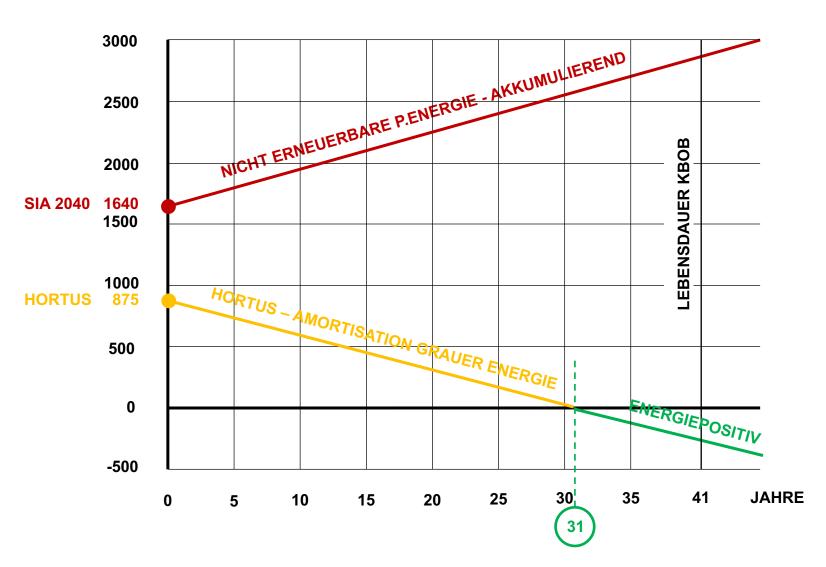


#### ENERGIEPRODUKTION

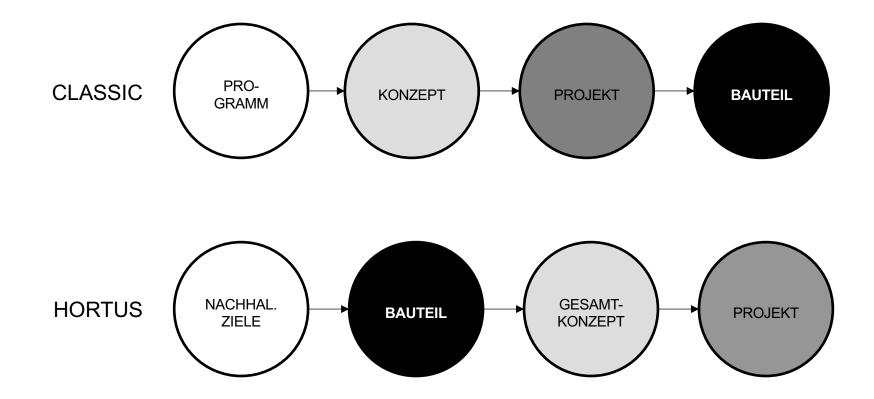


#### **ENERGIEPOSITIV IN EINER GENERATION**

kWh/m<sup>2</sup>

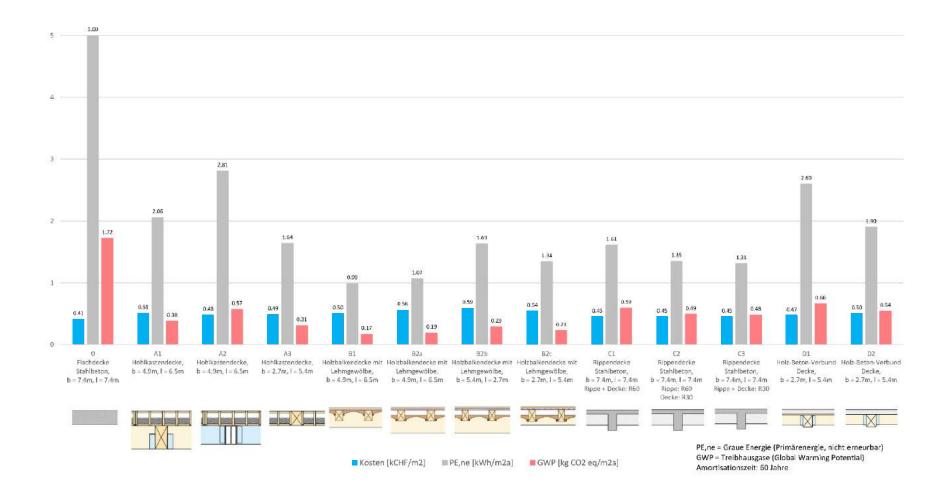


#### **INVERTIERTE ARBEITSMETHODE**



#### **DECKEN - RASTER**

#### Vergleich Deckensysteme

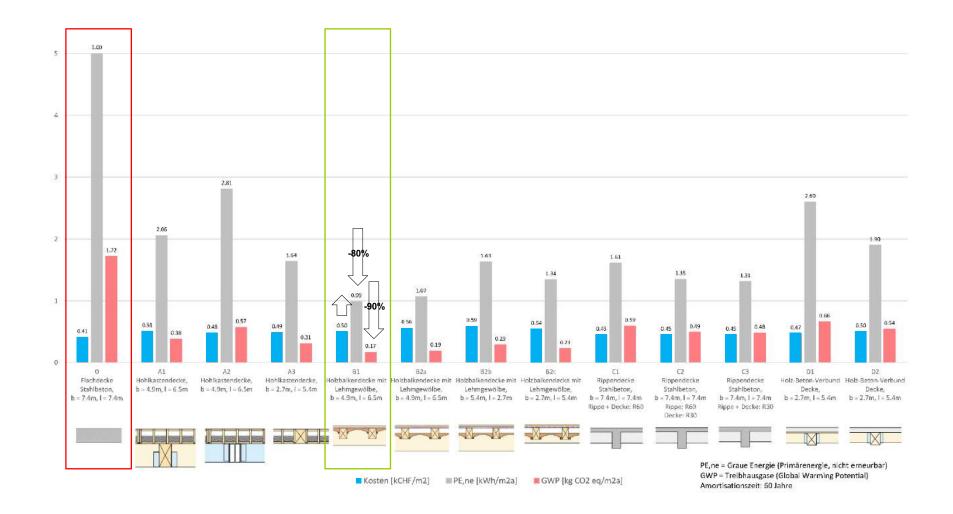


#### zpf.Ingenieure

Herzog & de Meuron

#### **DECKEN - RASTER**

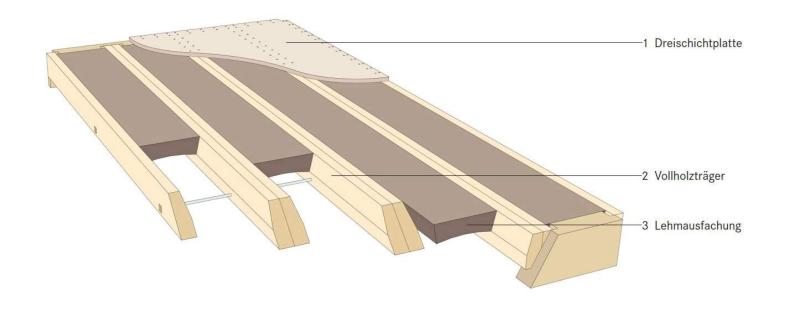
#### Vergleich Deckensysteme

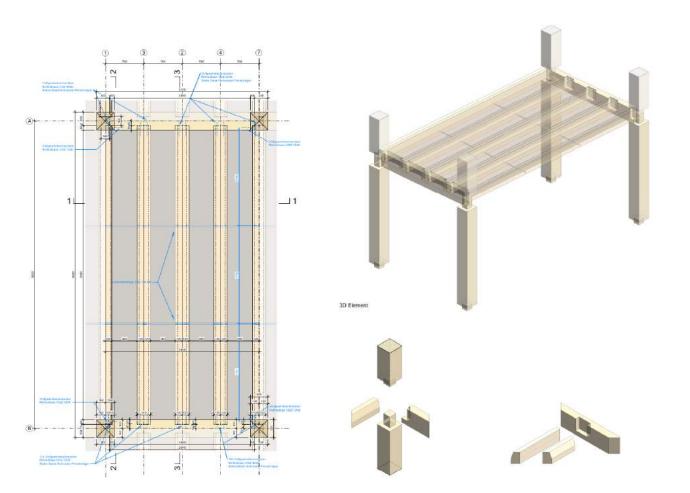


#### zpf.Ingenieure

Herzog & de Meuron

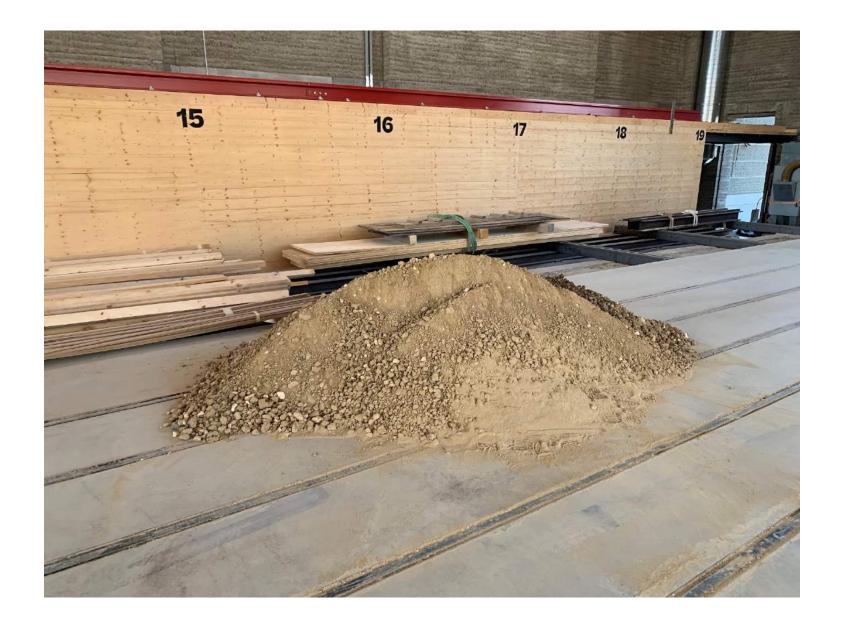






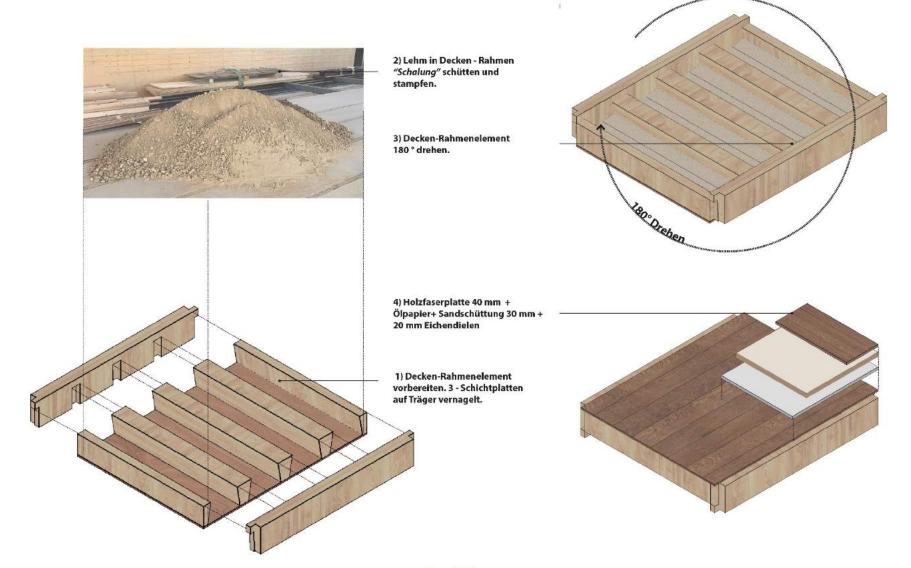






#### SYSTEM 02

#### Lehm in Holzrahmen gestampft.



Herzog & de Meuron





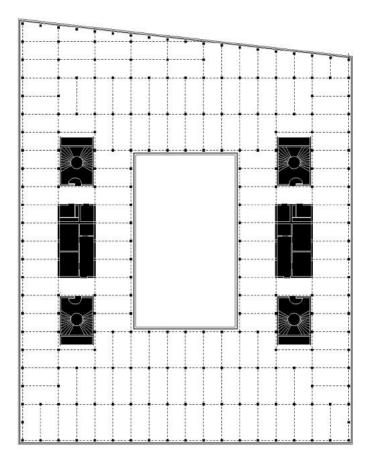






## 800 DECKENELEMENTE, 1400 STÜTZEN

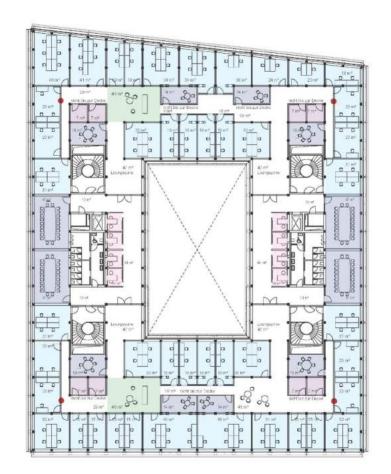




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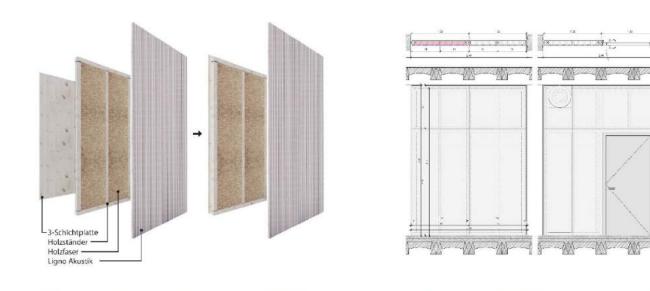


# **GESCHLOSSENE RÄUME**



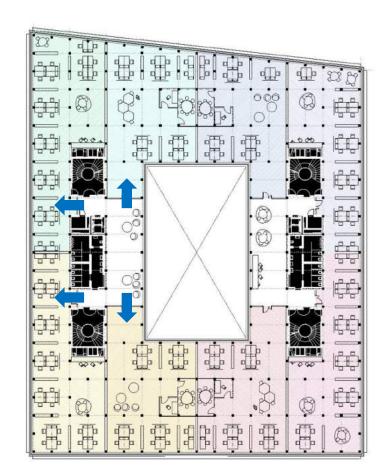
#### MIETERAUSBAU

100

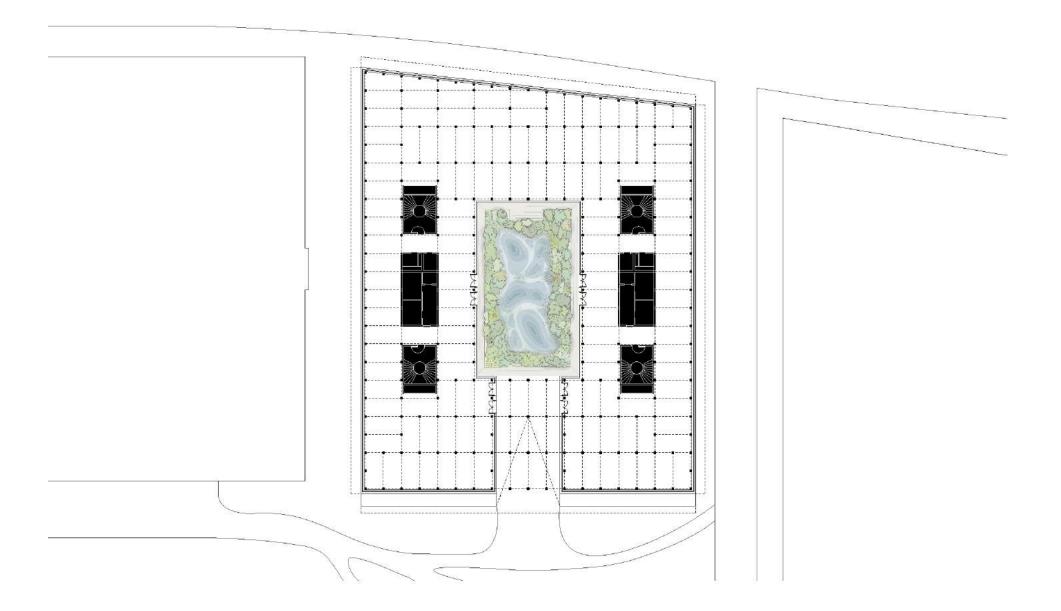




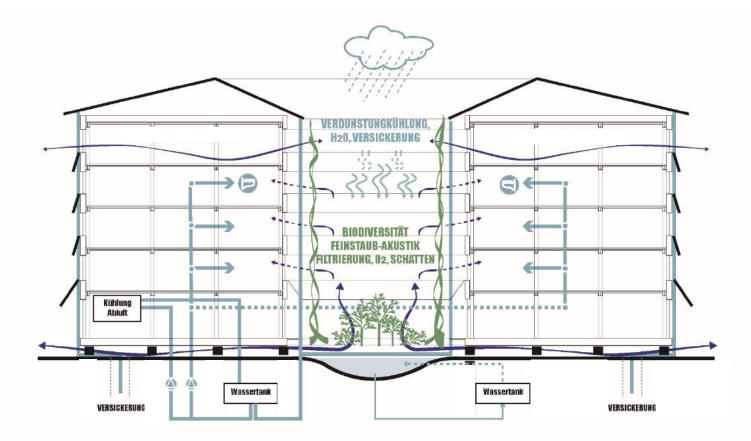
## FLEXIBILITÄT







### REGENWASSERAUFBEREITUNG



#### HORTUS CONCLUSUS





SOMMER

WINTER



1/ Geissblatt 2/ Alpen-Waldrebe Lonicera periclymenum 'Serotina'









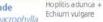
4/ Selbstkletternde Jungfernrebe Parthenocisus quinquefolia



5/ Kletterrose Rosa 'Seagull'













Hippolais polyglotta

H : 18m S. D H : 15m

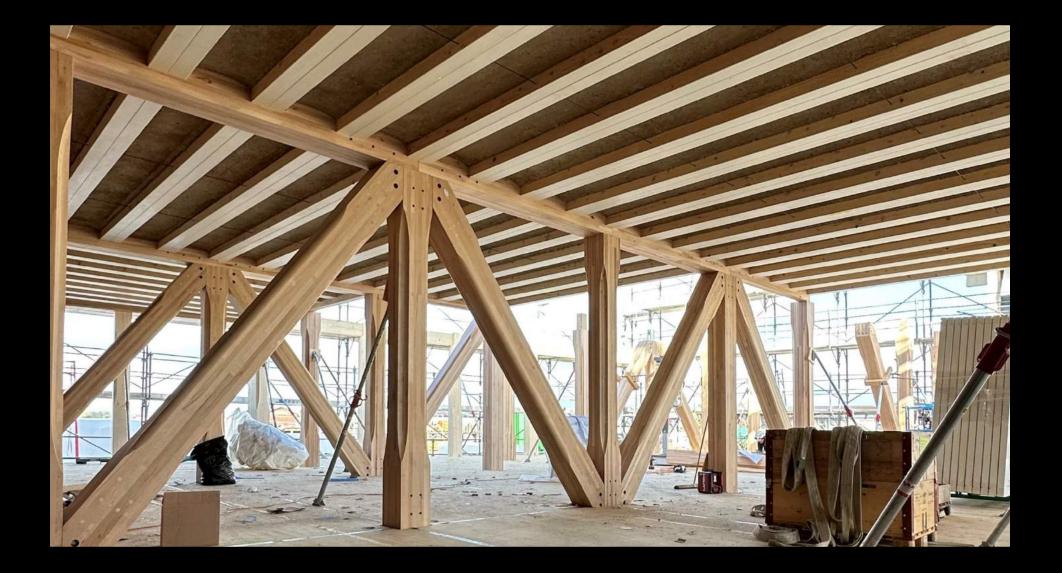
S. D



6/ Pfeifenwinde Aristolochia macrophylla Hoplitis adunca + Echium vulgare





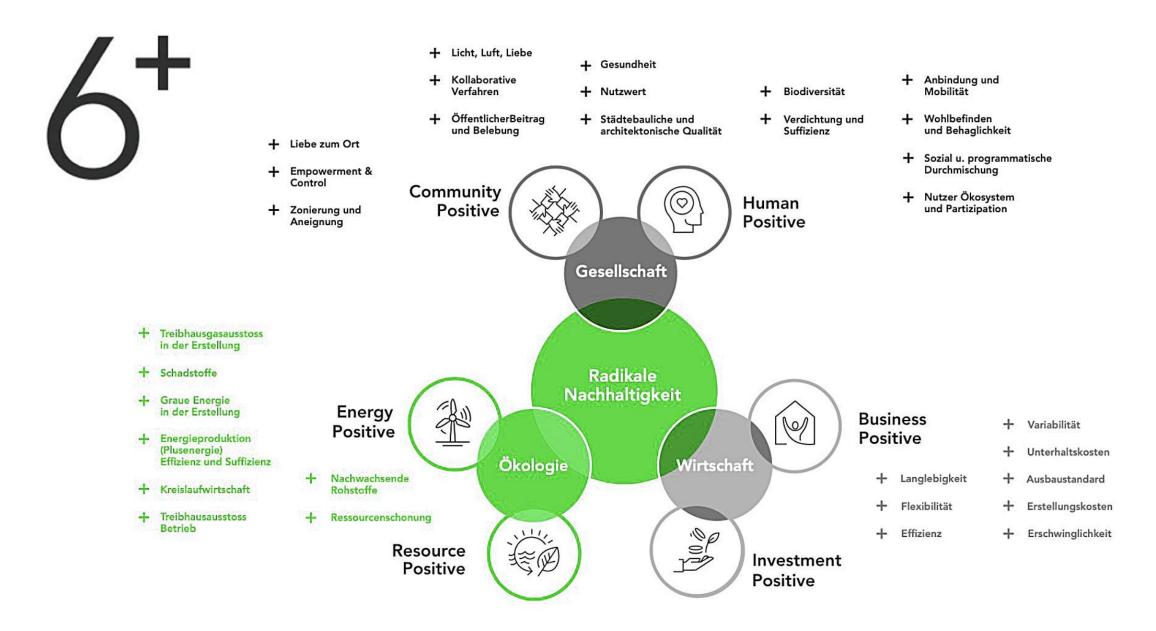




**VOR-ORT-FERTIGUNG** 3 HABÖ SCHÜTTGUT 5 MONTAGE (1) AUSHUB 0 0 (4) FELDFABRIK -1 2 0 0 ZWISCHENLAGER ЛП 4 2 3







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# WHAT?

### **Energy and Resource Positive (Ecological):**

- Grey energy (non-renewable primary energy) in the building ca. 10'000 MWh
- Surplus energy production photovoltaics approx. 5'000m<sup>2</sup>
- Amortisation time (current calculations) approx. 30 years
- Fossil-free heating and cooling (Fernwärme/Kältenetz)
- Extended rain water usage
- Construction: Swiss wood, rammed earth, isofloc, glass, photovoltaics, steel stairs, no basement
- Circularity: True, separatable materials, complete material inventory and design for future re-use

#### Benefits for tenants:

- Important step on the CO2 reduction path
- Reduce, re-use & biodiversity light house project in corporate social responsibility

# WHAT?

### Human and Community Positive (Social):

- Luxurious room height: Ground floor 3.80m i.L., upper floors 3.30m i.L.
- Biodiverse surroundings and perspectives for users
- Active temperature handling through greenery (ca. -3° in summer)
- Active temperature and humidity handling through wood/rammed earth materialisation
- Natural, agent-free, porous materials throughout, positive microbiome and tactile well-being
- Controlled air handling including filtering, humidification, swinging windows, diverse sensors (temp., humidity, CO2, VOC, lux, aerosols) and app-based transparency & monitoring

### **Benefits for tenants:**

• A new kind of focus on health and well-being of tenants and their empoyees

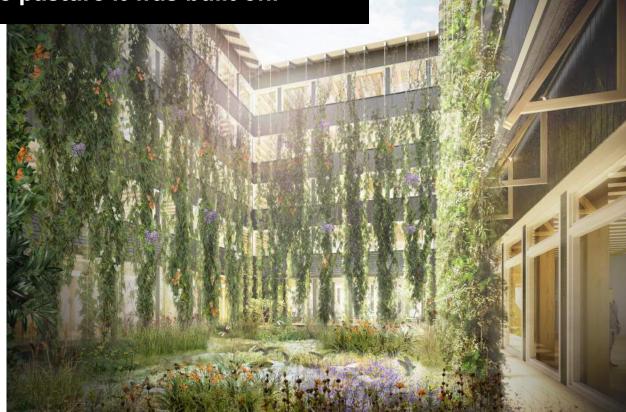


HORTUS explores new aspects of well-being through agent-free porous, microbiome- and tactilefriendly materialisation

S E N N Man Des

HORTUS furthers well-being and outlook through biodiversity.

A BFF of 0.52 means HORTUS provides more biodiversity than the pasture it was built on.







A cooling facade in summer (up to -3°C)

Maximizing natural light in winter



# WHAT?

#### **Business and Investment Positive (Economical):**

- Fit out: Ready Made incl. flooring/walls/ceiling (porous, low-energy, low-carbon materials), incl. distributed electricity and lan, incl. basic acoustics and lighting
- Easy move-in: Tenant brings own furniture, individual mood lighting and individual acoustics and can order separators/walls/single rooms additionally à la carte
- Sharing access-over-ownership lease model: Ready-made «own» space + furnished common spaces on floor
  + extensive furnished and catered common meet/work/eat lounge on ground floor
- Total lettable space for offices, meeting, F&B and services ca. 11'000m<sup>2</sup>, ca. 2'300m2 per floor

#### **Benefits for tenants:**

- More working quality at less cost and responsibility.
- More flexible lease terms possible.

HORTUS is built to be re-used. Made from wood, rammed earth, necessary glass, photovoltaics and recycled paper – a big step on any tenant's or investor's road to meeting CO<sub>2</sub> targets

All elements are inventorized, materials and systems are separated for repair and resale



**Investment Positive** 



**Resource Positive** 



Business Positive



**Community Positive** 

HORTUS delivers a new tenant model based on a ready-to-move-in fitout, with more shared spaces, allowing access-over-ownership efficiency and furthering interaction and collaboration between tenants



Separators and office/meeting room modules fulfilling HORTUS radical sustainability standards (rammed earth, isofloc, wood) are bought à la carte or made part of the lease

Redundant, battery-operated electrical system for emergency operation including cooling

Shared spaces are sustainably furnished and operated





**Community Positive** 



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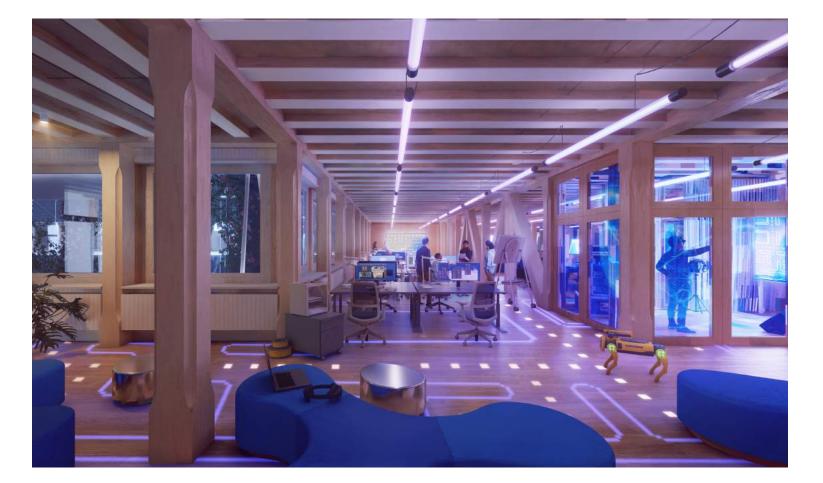
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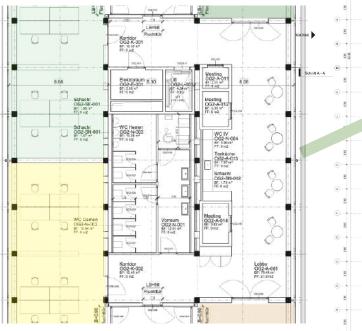
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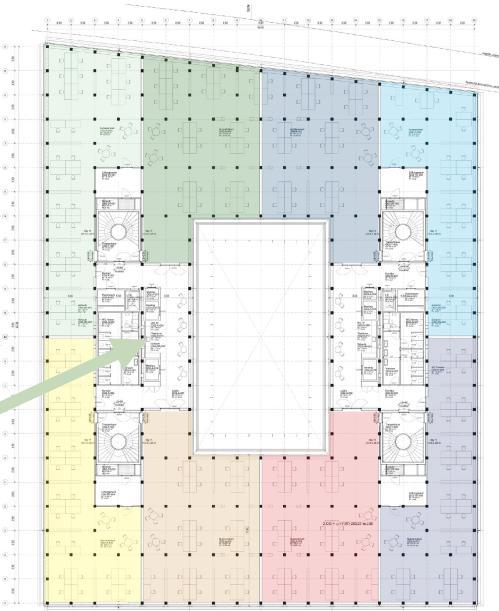
## Your offices: Xm<sup>2</sup> with 1'000m<sup>2</sup> of furnished space on top.



On the floors, fully furnished and operated common spaces are shared by adjoining tenants.

For functions, where proximity counts: Coffee, phone calls, chitchat.





The use of the furnished common spaces is factored in the tenant's lease agreements per quota, at around 10% of their rented space.

Together with the ground floor quota of 20%, each lease agreement roughly combines 70% exclusive company space and 30% shared spaces.

The actual value of access being significantly higher.

Upper Floors

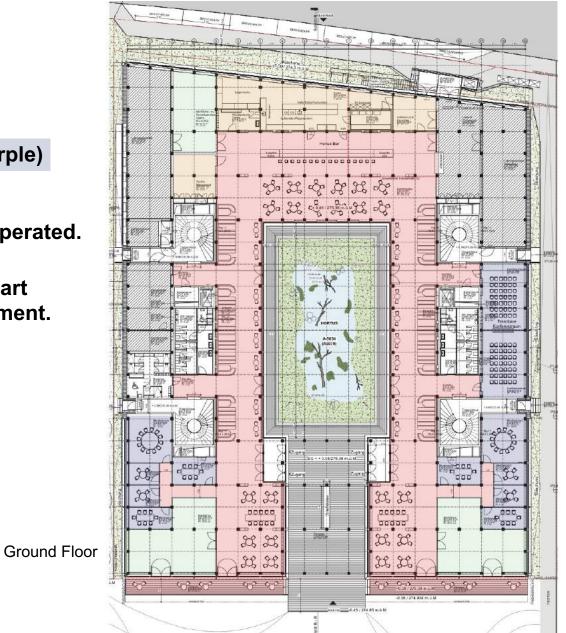
## Your offices XXXm<sup>2</sup> – with 1'000m<sup>2</sup> of expansion space



Public ground floor working lounge (pink) with meeting center (purple) and services (green),

furnished, catered and operated.

For tenants an integral part of their working environment. Maybe more important than the office itself.



The use of the ground floor is factored in the tenant's lease agreement per quota, at around 20% of their rented space.

The entire working lounge (pink) is at the disposal of tenants' employees – to work, meet and eat (if they choose to). Rooms at he meeting center (purple) can be booked/rented per use.

The host has a management contract and is at the service of HORTUS tenants.

Your space includes the ground floor, which is an expansive, catered working and meeting lounge for tenants and visitors



### **Business Positive**





## **Further Information.**

### www.hortus.ch

The full dossier, films and images

#### www.hochparterre.ch/hortus

An outside perspective by Switzerland's premier architecture and design magazine.

### www.sip-baselarea.com

Introduction to Switzerland Innovation Park Basel Area.

### www.maincampus.ch

Introduction to Switzerland Innovation Park Basel Area.

#### www.senn.com

Everything you need to know about SENN

# Thank you.



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## ej@senn.com



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