



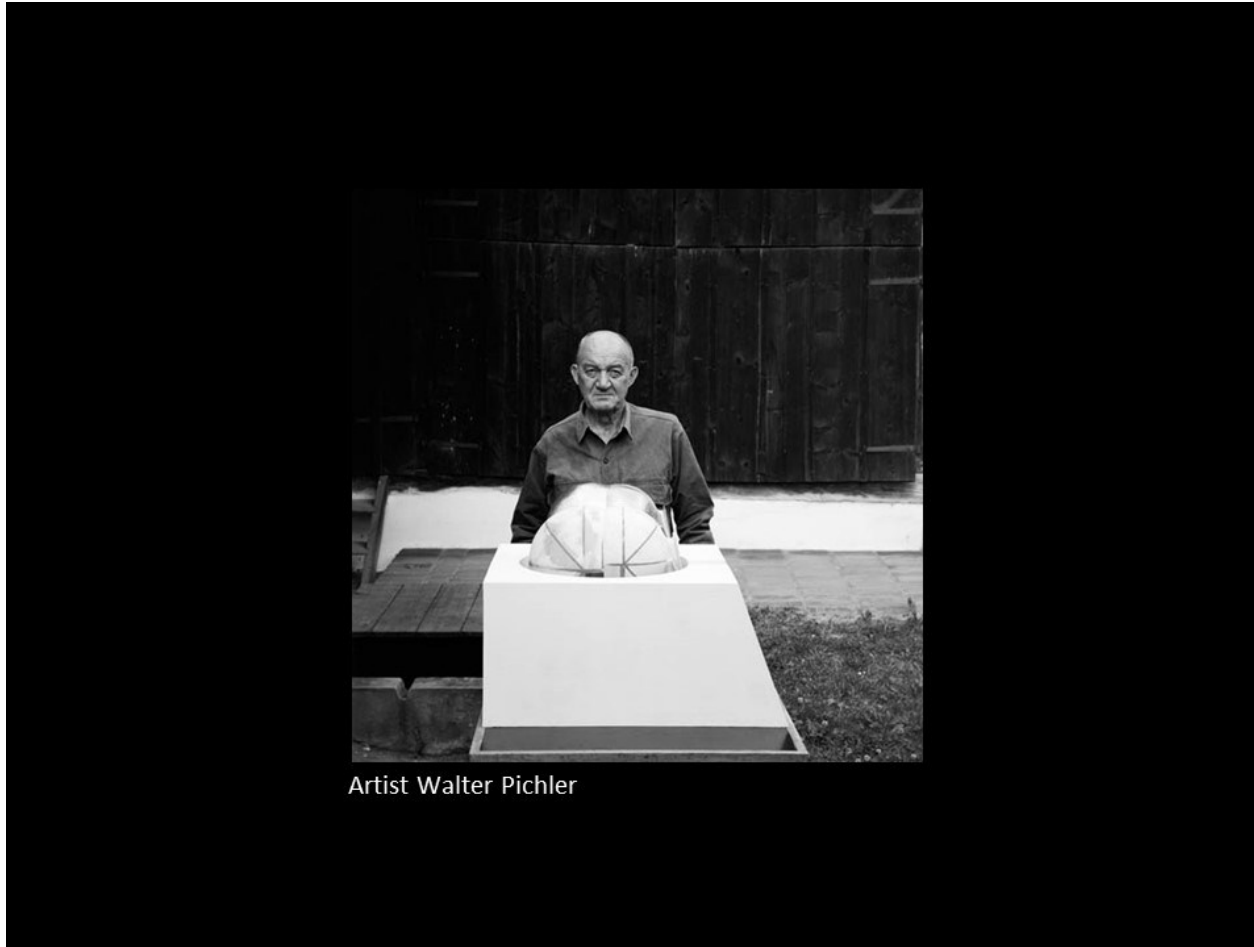
Local-isation | From global to local part_01

Arch. Peter Pichler

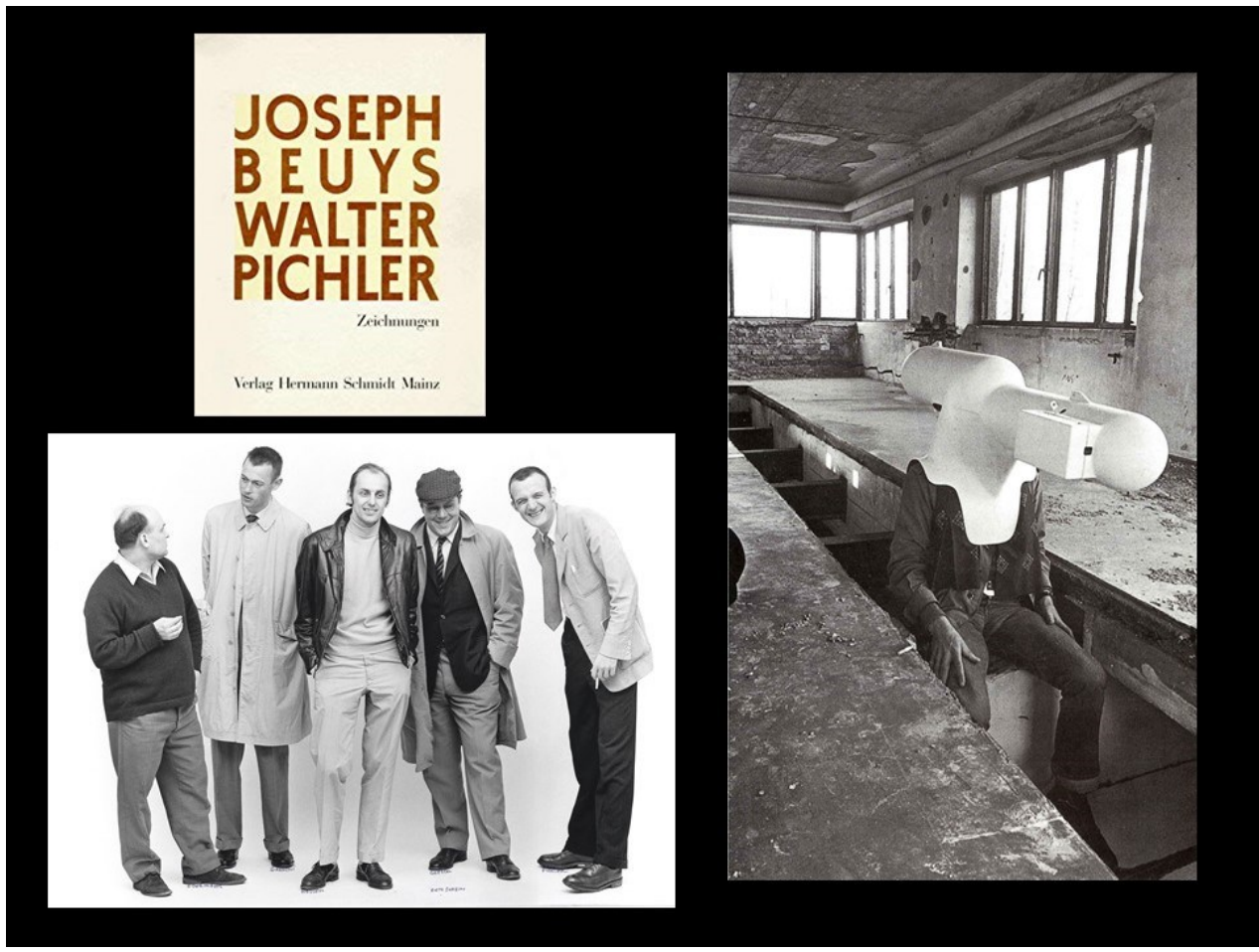
Peter Pichler Architecture

27/05/2021

**PETER
PICHLER
ARCHITECTURE**

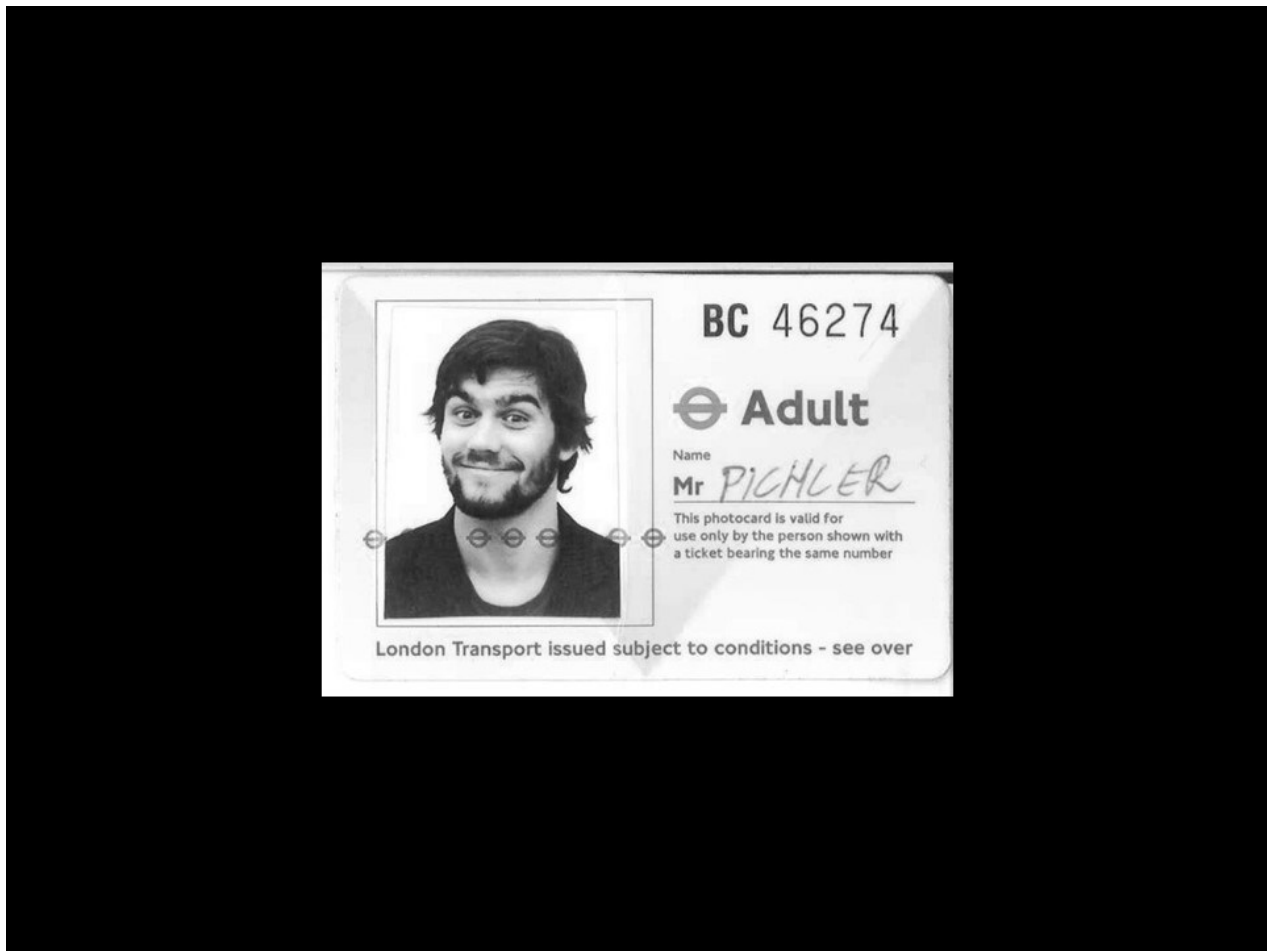


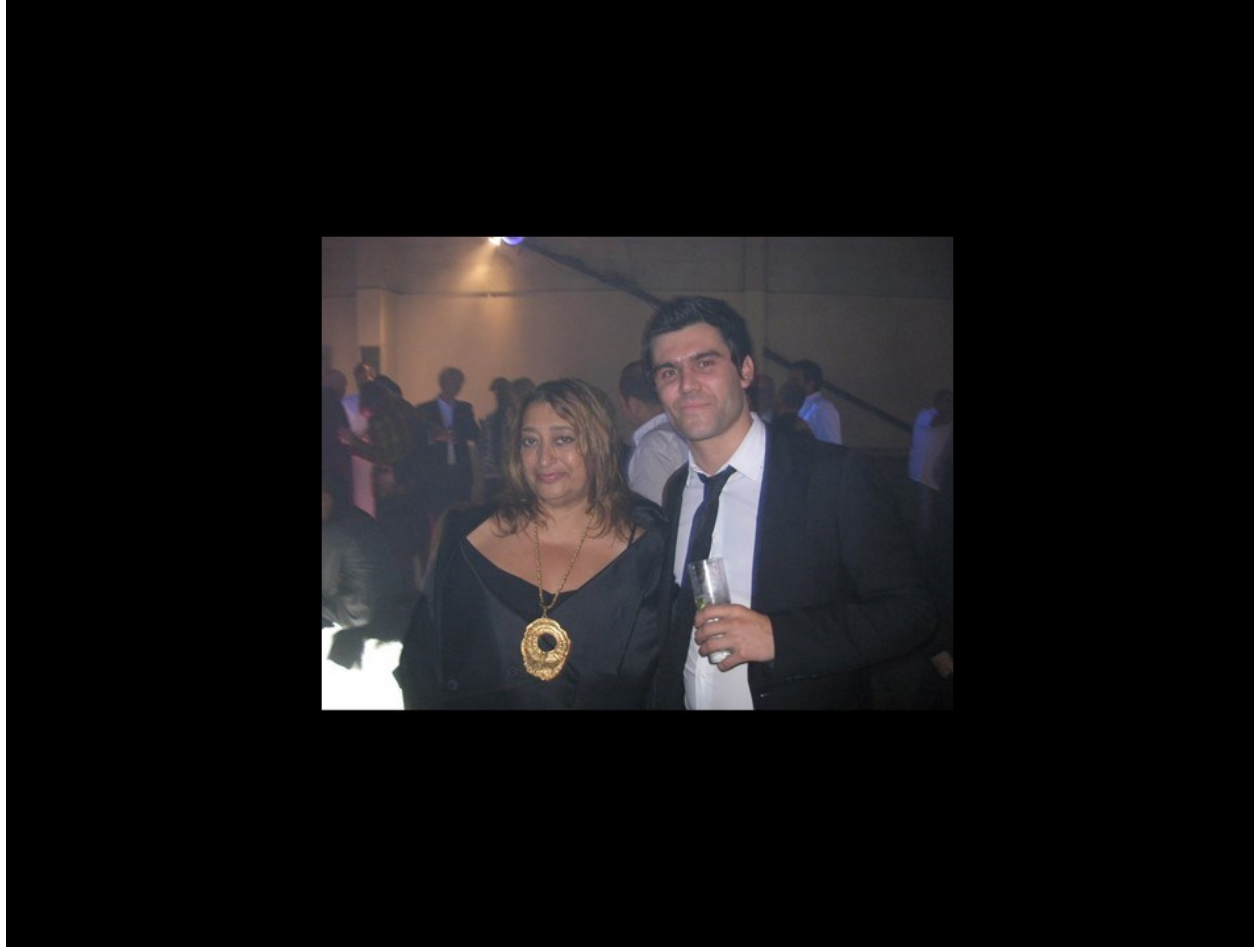
Artist Walter Pichler





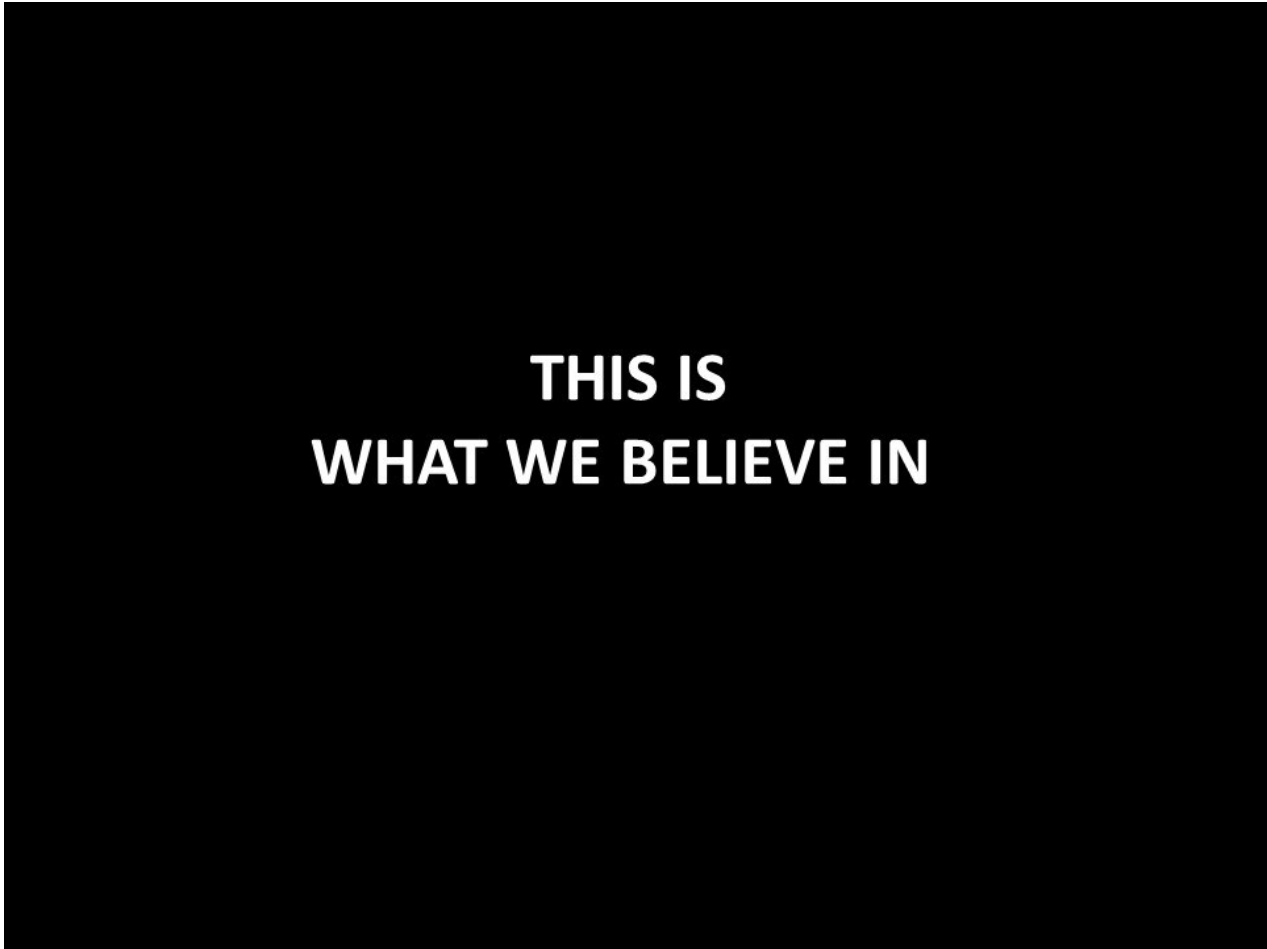














TRADITION AND EVOLUTION

We believe that tradition lies
at the heart of evolution.



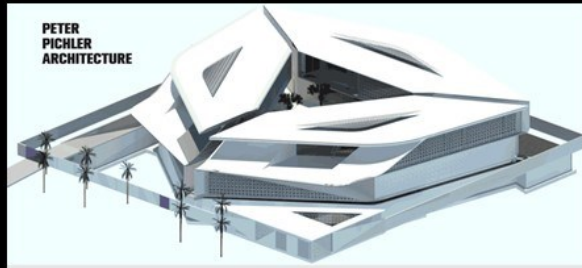
SUSTAINABILITY AS RESPONSABILITY

We believe in a radically
different approach;
we pursue a positive impact.



CULTURE, SOCIETY AND ZEITGEIST

Context goes beyond the
immediate physical surroundings
of the architectural objects.



New approach suggests path to emissions-free cement

MIT researchers find a way to eliminate carbon emissions from cement production — a major global source of greenhouse gases.

[Listen](#)

David L. Chandler | MIT News Office
September 16, 2019



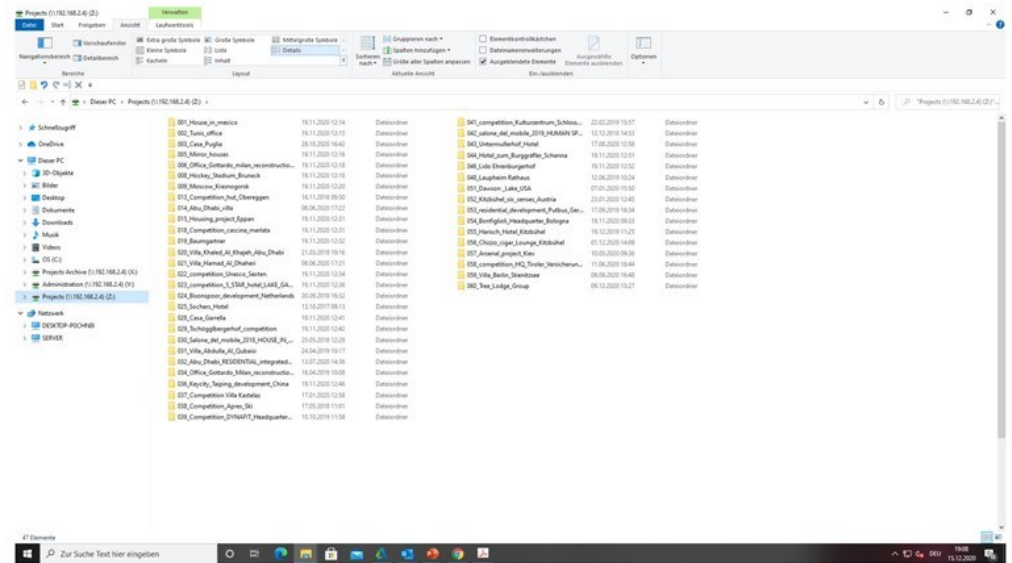
RESEARCH AND TECHNOLOGY

At PPA research is the origin and driver of every project.

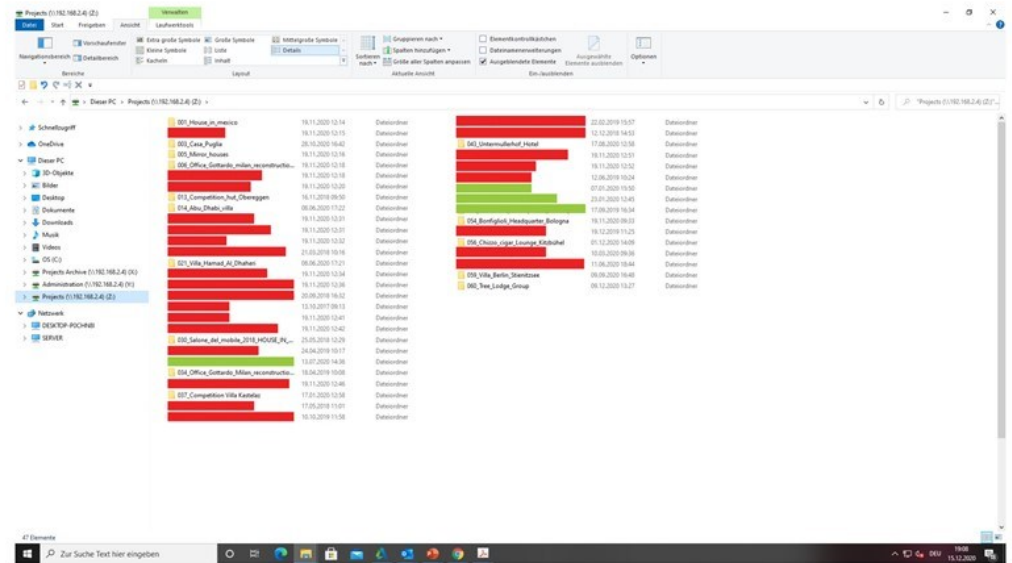
Virtual Reality in Architecture

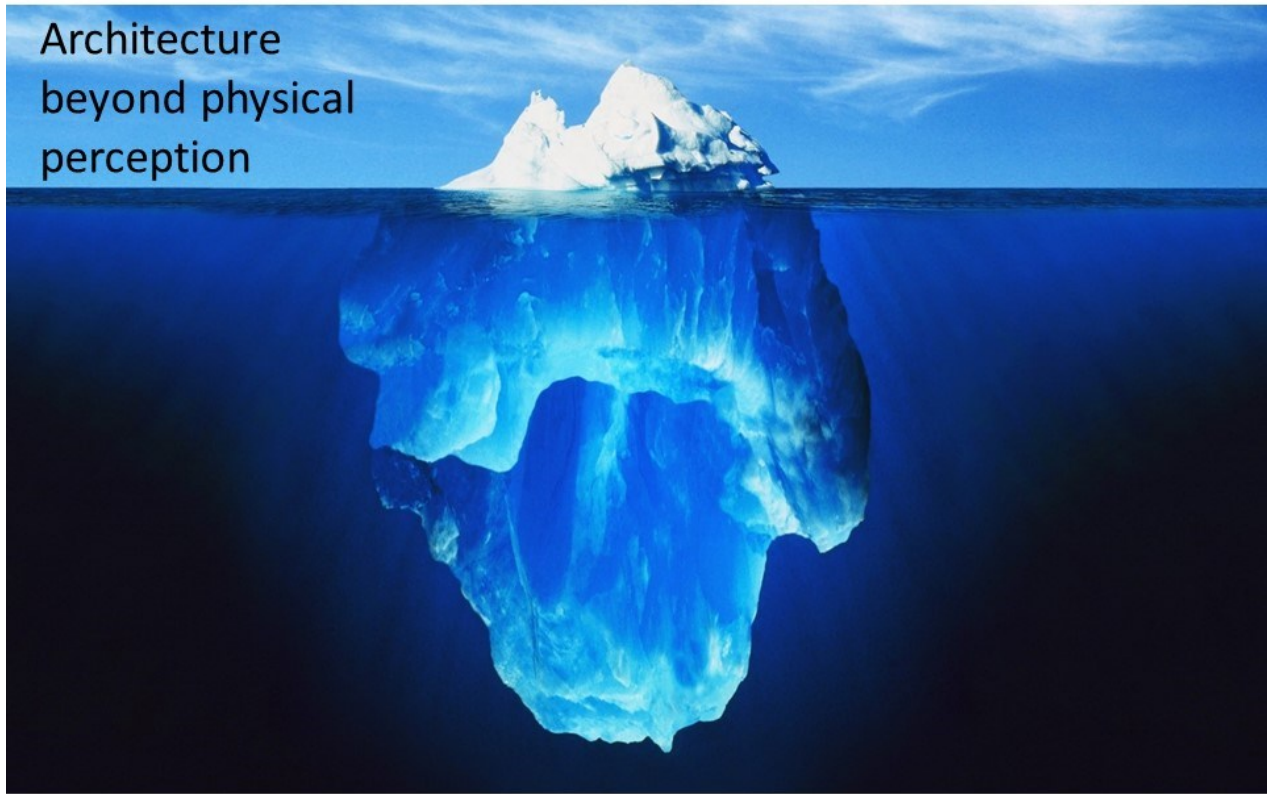


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Non-fungible tokens are revolutionising the art world

Artists have been dismayed to find their work ending up in the 'control' of others



▲ A digital art collage by Beeple, a pioneer of the exploding virtual art market, which sold for a record \$69.4m. (NB image has been cropped) Photograph: Christie's Auction House

INSIDER

Take a look at the digital 'Mars House' that just sold for over \$500,000 — the world's first crypto real-estate sale

Grace Kay Apr 5, 2021, 6:11 PM

The Clouds of Today, Secured Against the Threats of Tomorrow

VIDEOS YOU MAY LIKE

- 20 construction
- Jeff Lane's 510

The Unreasonable Ecological Cost of #CryptoArt (Part 1)

Memo Akten Dec 14, 2020 · 23 min read



Energy usage: **263,538 kWh** ⓘ
Emissions: **163,486 KgCO₂**

Equivalent to:



- 🏠 An EU resident's electricity consumption for **77 years**
- ✈️ Flying for **1.5 thousand hours**
- 🚗 Driving **838 thousand Km** (petrol)
- 🍵 Boiling a kettle **3.5 million times**
- 💻 Using a laptop for **2.5 thousand years**
- 🖨️ Using a computer for **636 years**

In under half a year, one artist's multi-edition NFTs have a footprint of 260 MWh, 160 tonnes of CO2 emissions.

ZUKUNFTSVISION

Bionikerin: "Wir werden uns von der Natur abkapseln müssen"

Um Tiere und Pflanzen zu schützen, müssen wir uns in digitale Welten zurückziehen, sagt die Bionikerin Ille Gebeshuber. Nur mehr die Reichen werden in der realen Welt leben

INTERVIEW Jakob Pallinger 30. Jänner 2021, 12:00 404 Postings



Kann die Natur eines Tages genauso schön sein, wenn wir sie nur aus sicherer Entfernung oder in digitalen Welten erleben?

Foto: Getty Images/Stockphoto

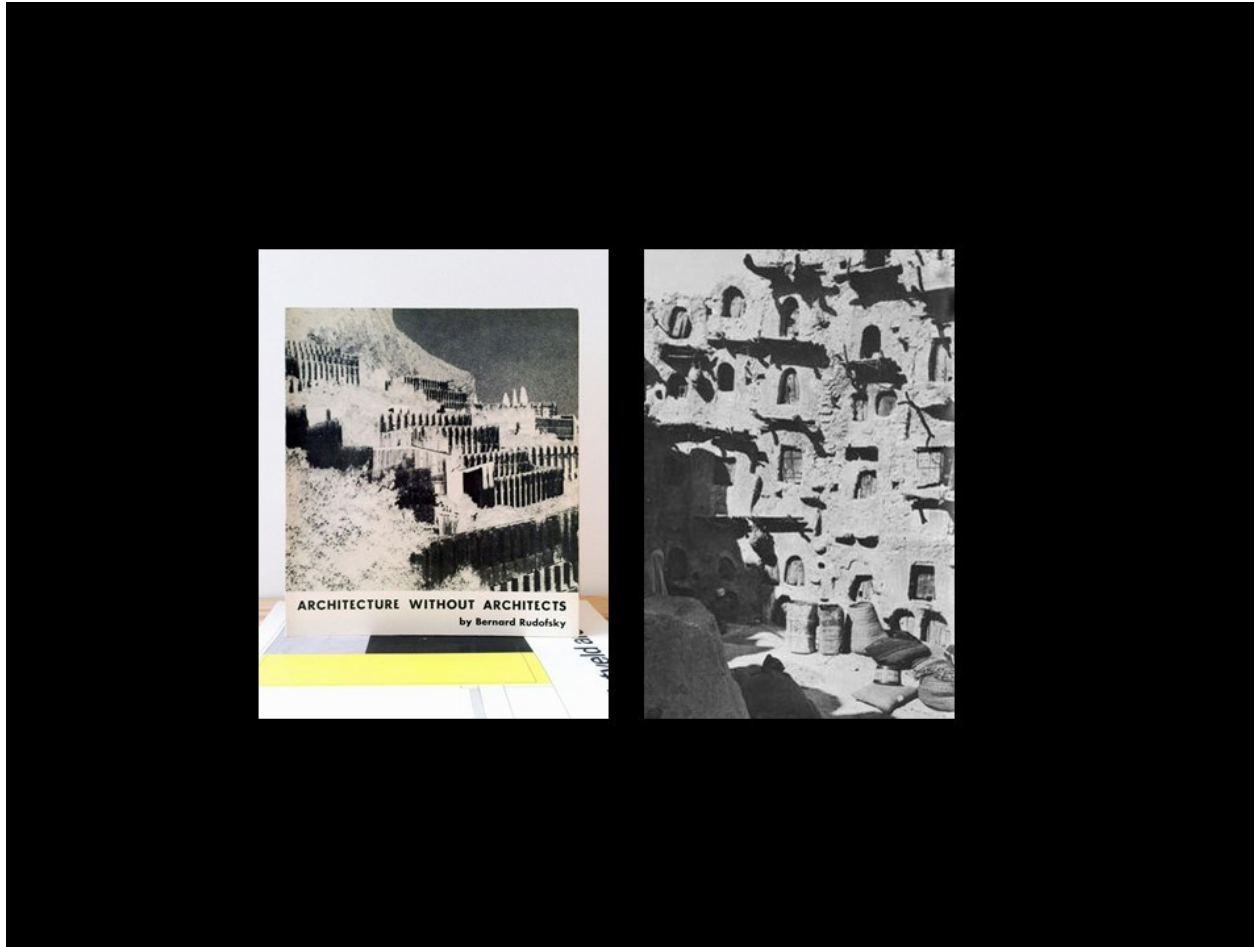
CONTEXT ?

Architecture and architectural context goes beyond
immediate physical surroundings of the architectural object

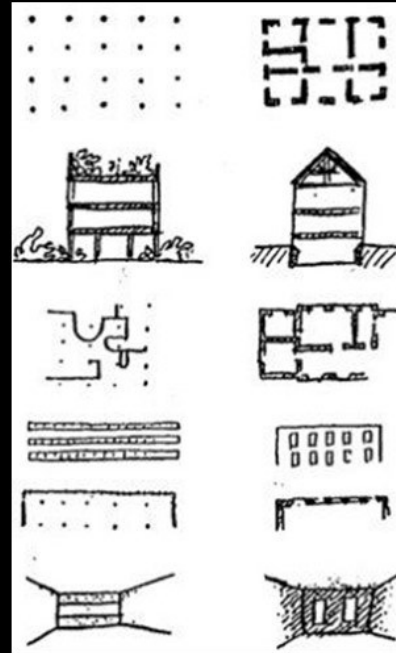
It is shaped by larger cultural, geographical, political, societal, economical content as well as technology, vernacular and many other factors.







Corbusier, 5 points of architecture



Marc-Antoine Laugier, primitive hut



LOCALISATION

FROM GLOBAL TO
LOCAL



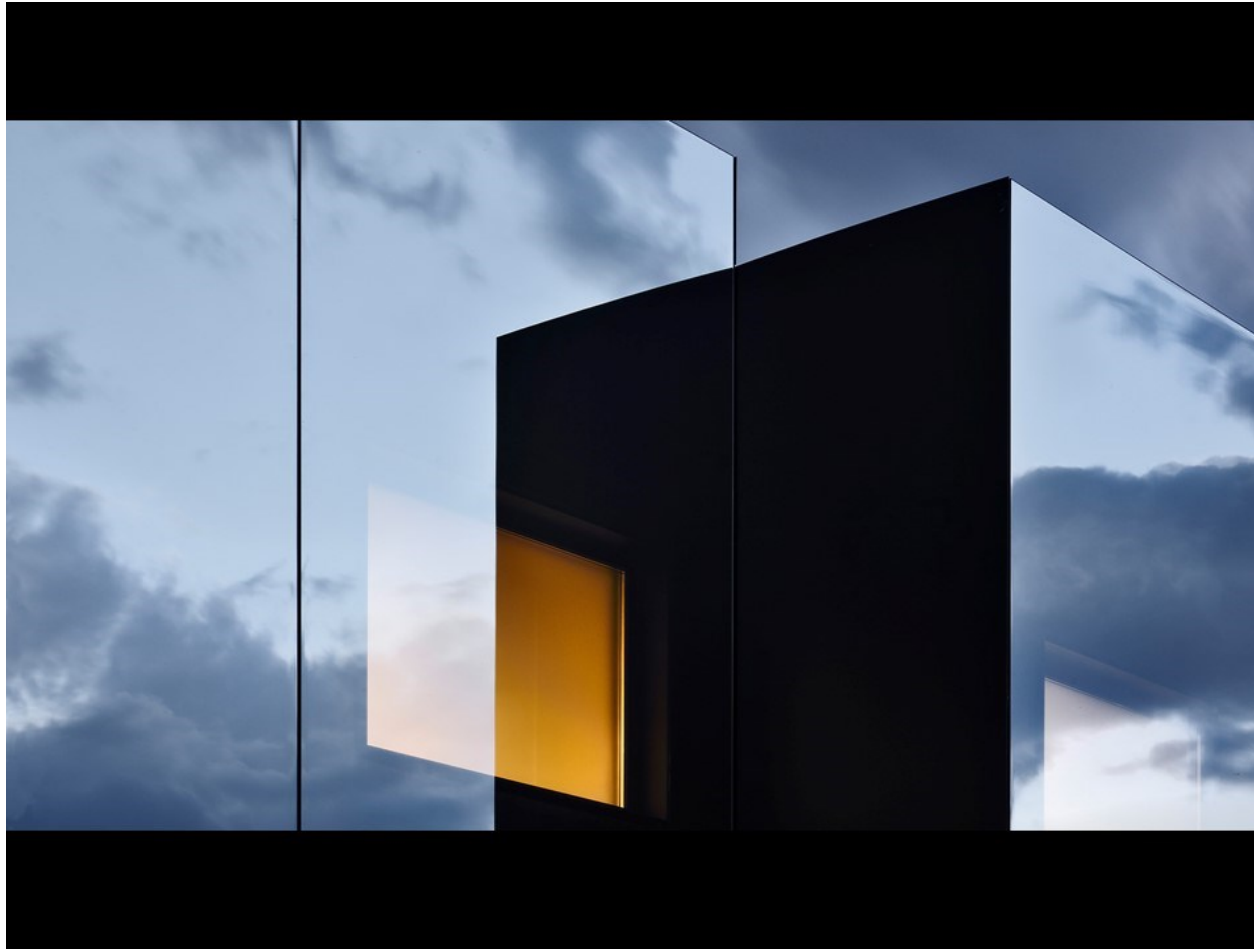








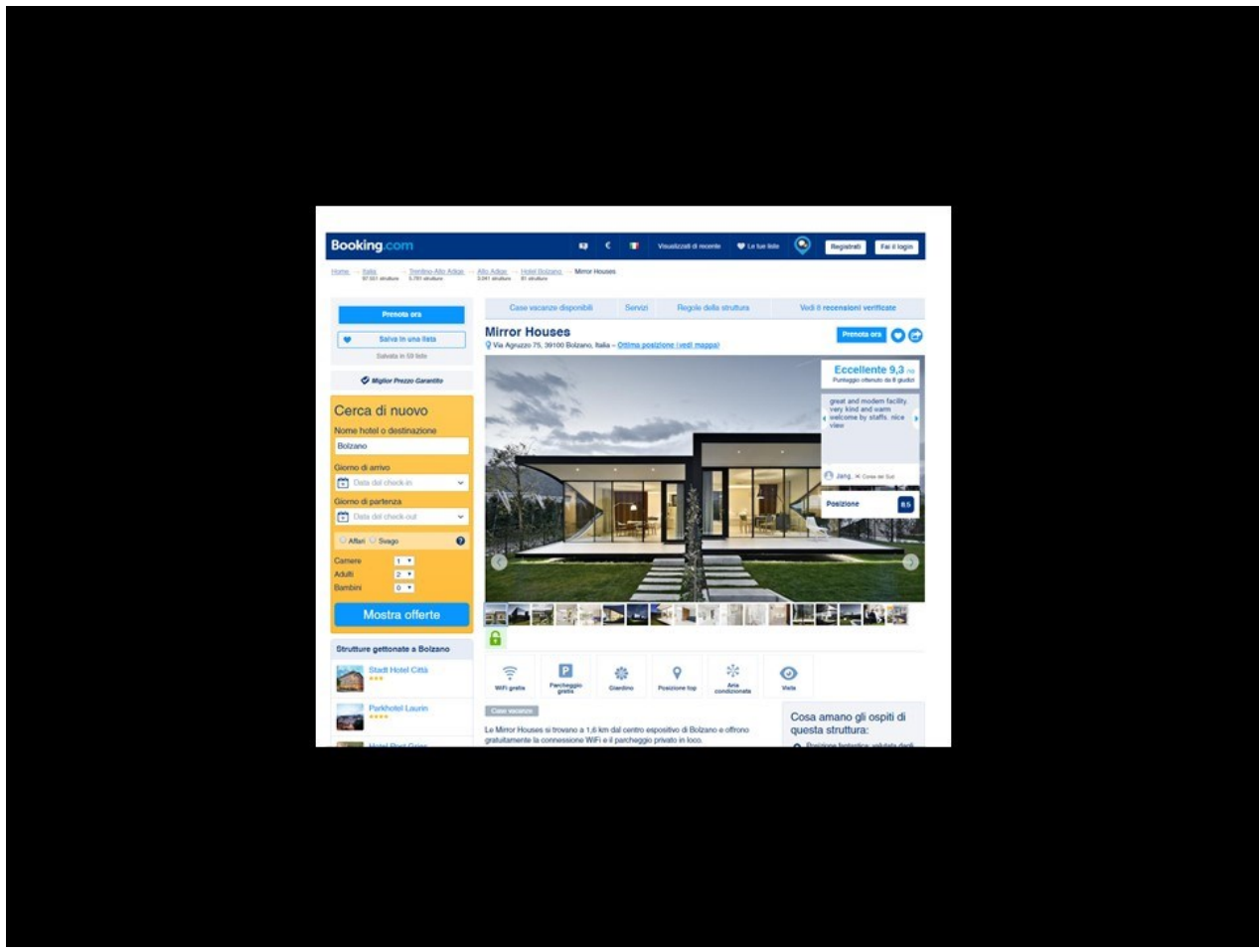




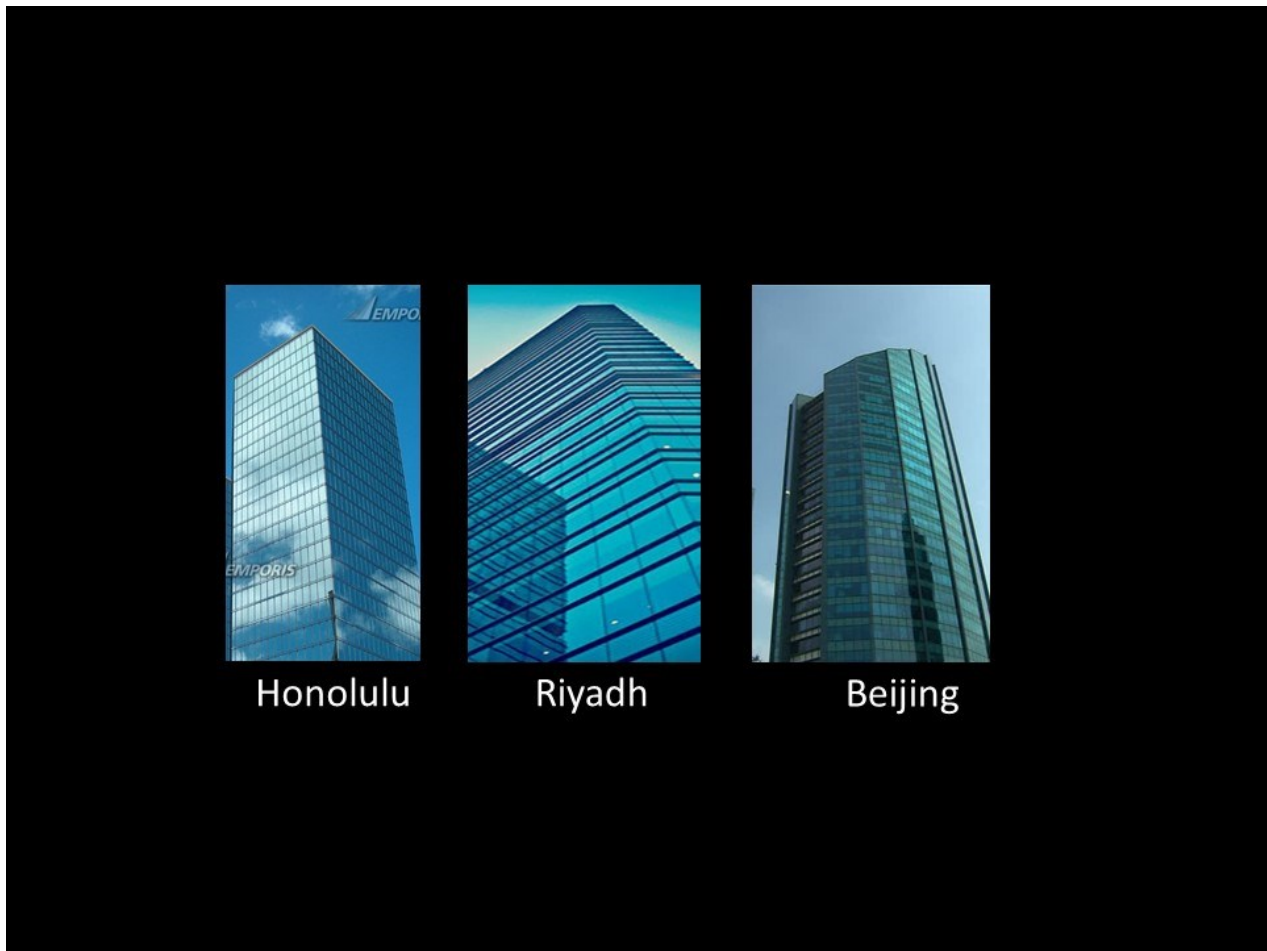












Honolulu

Riyadh

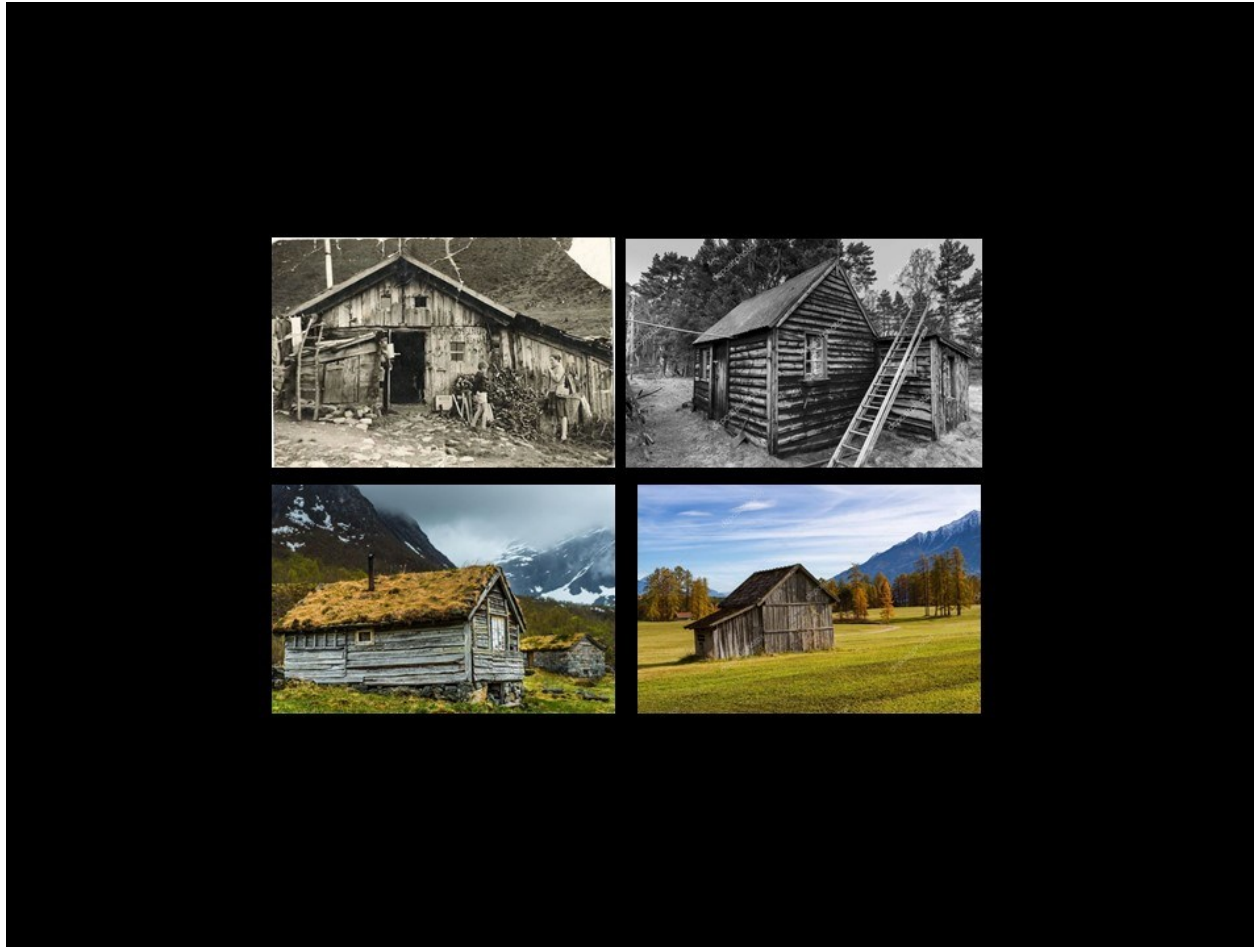
Beijing

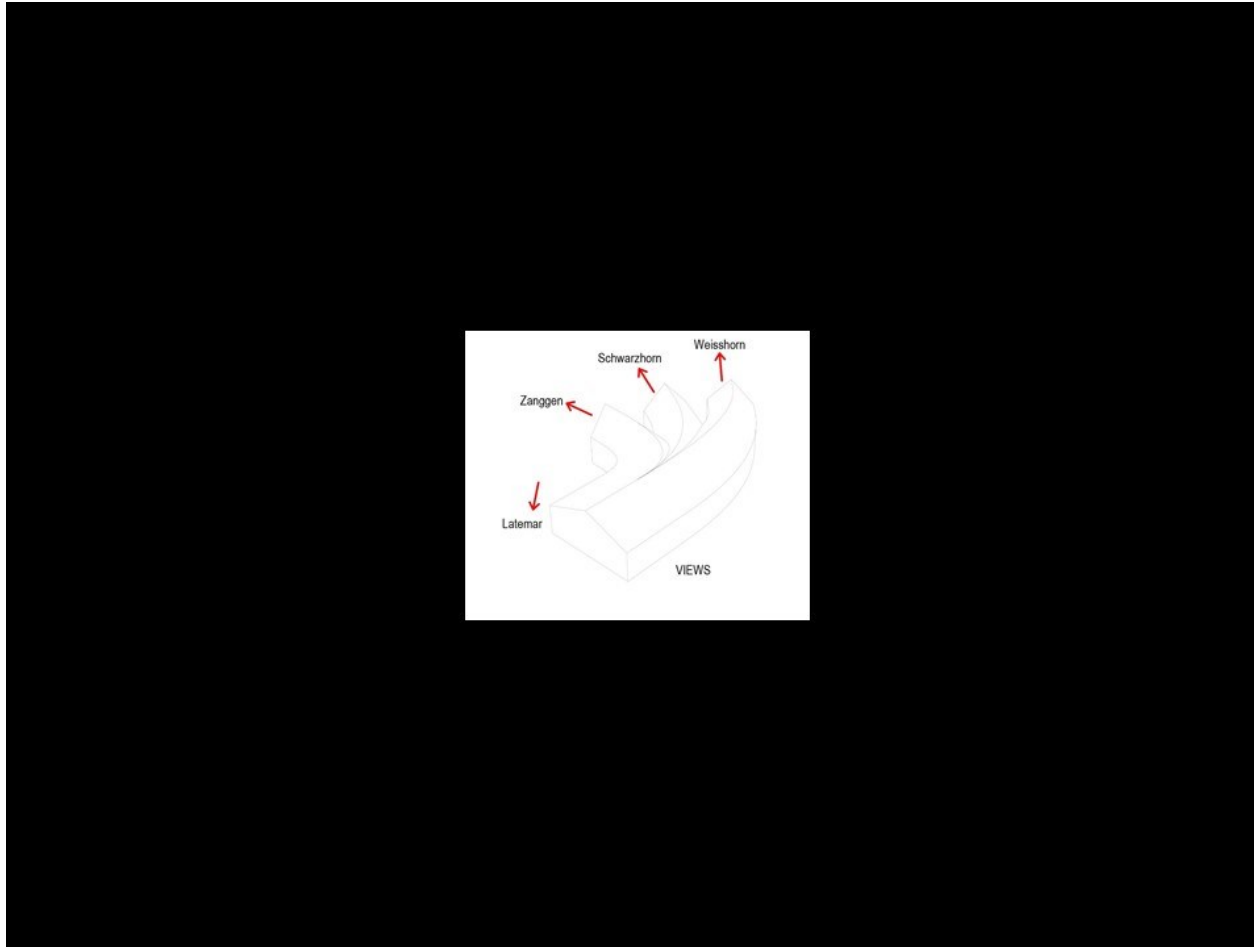


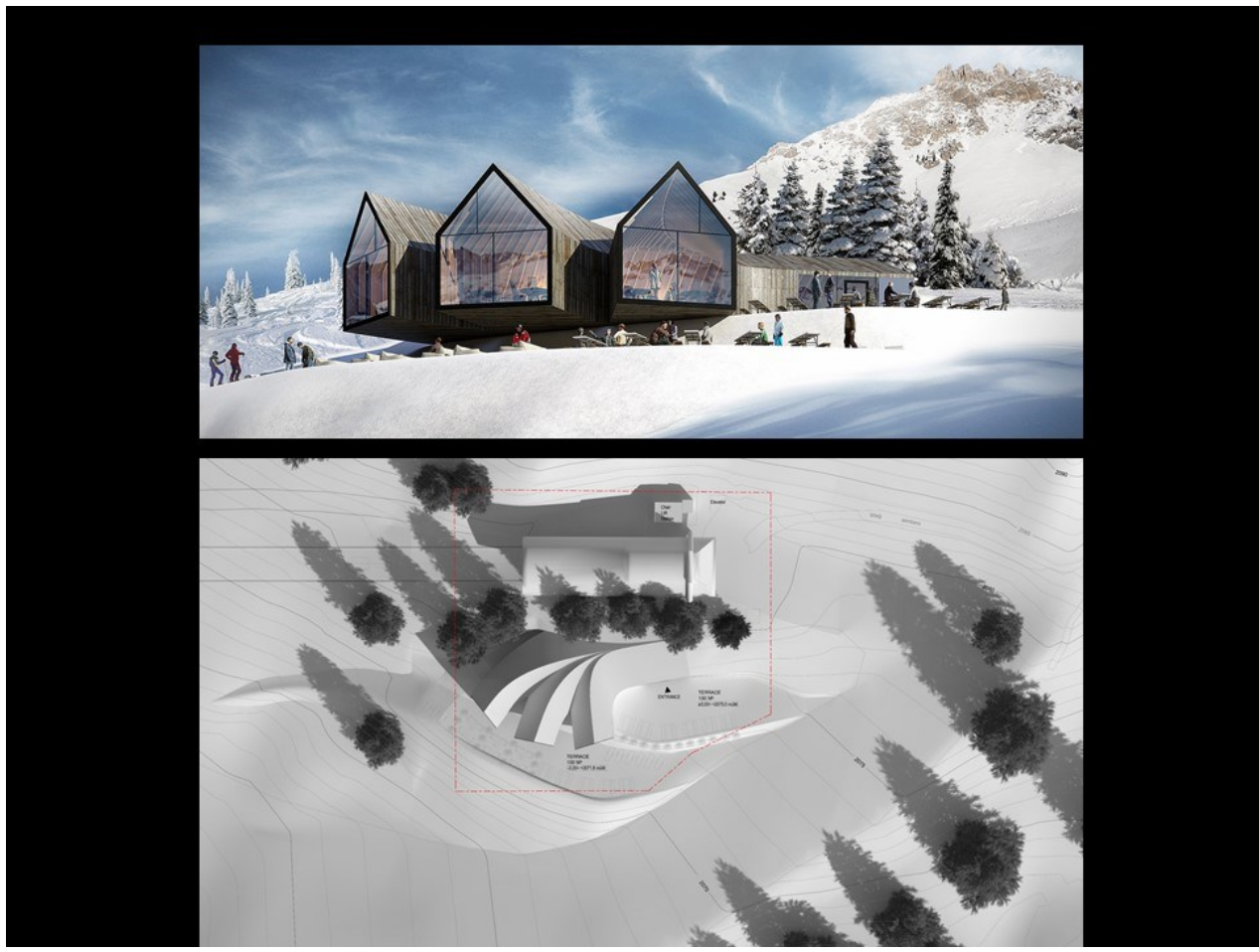


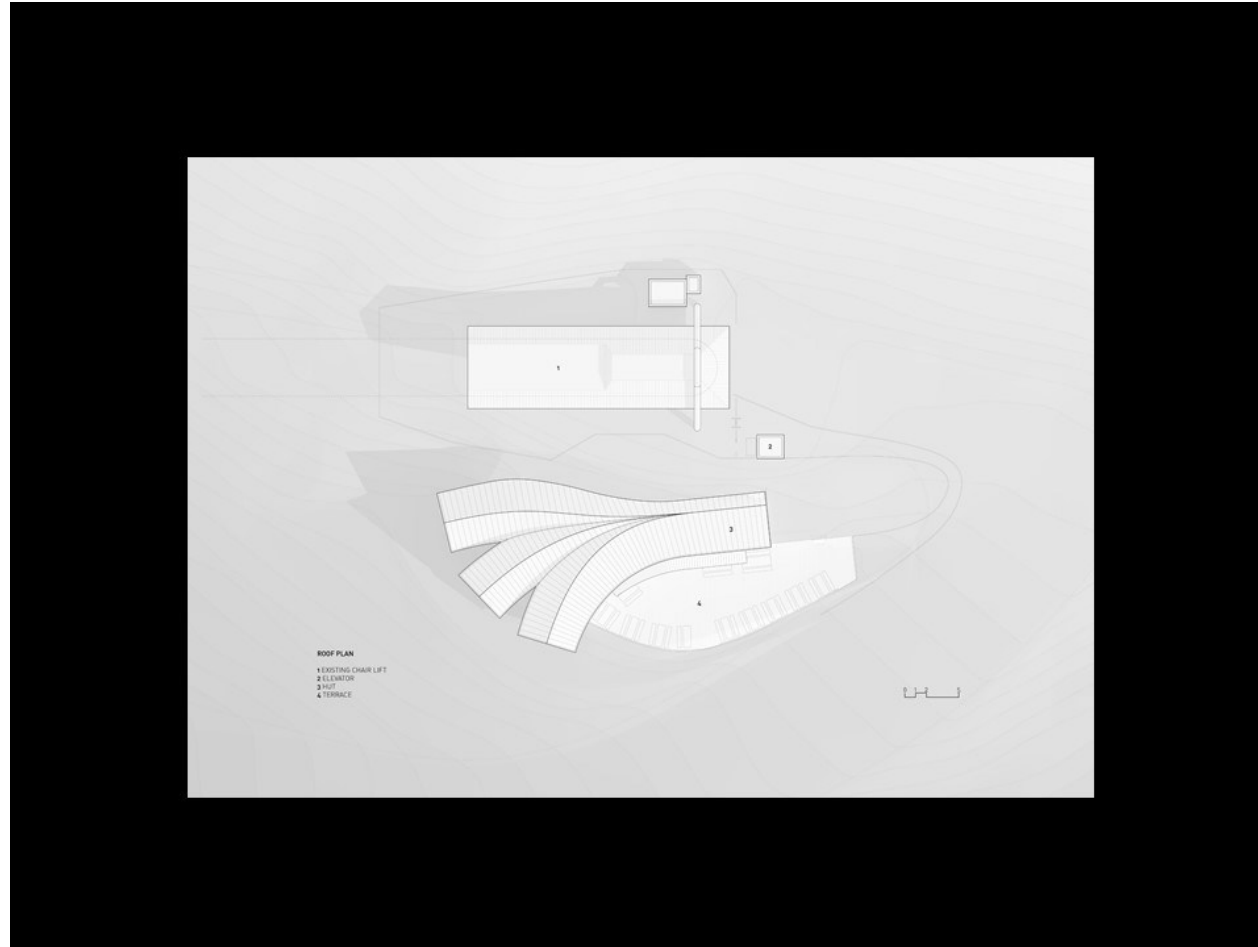








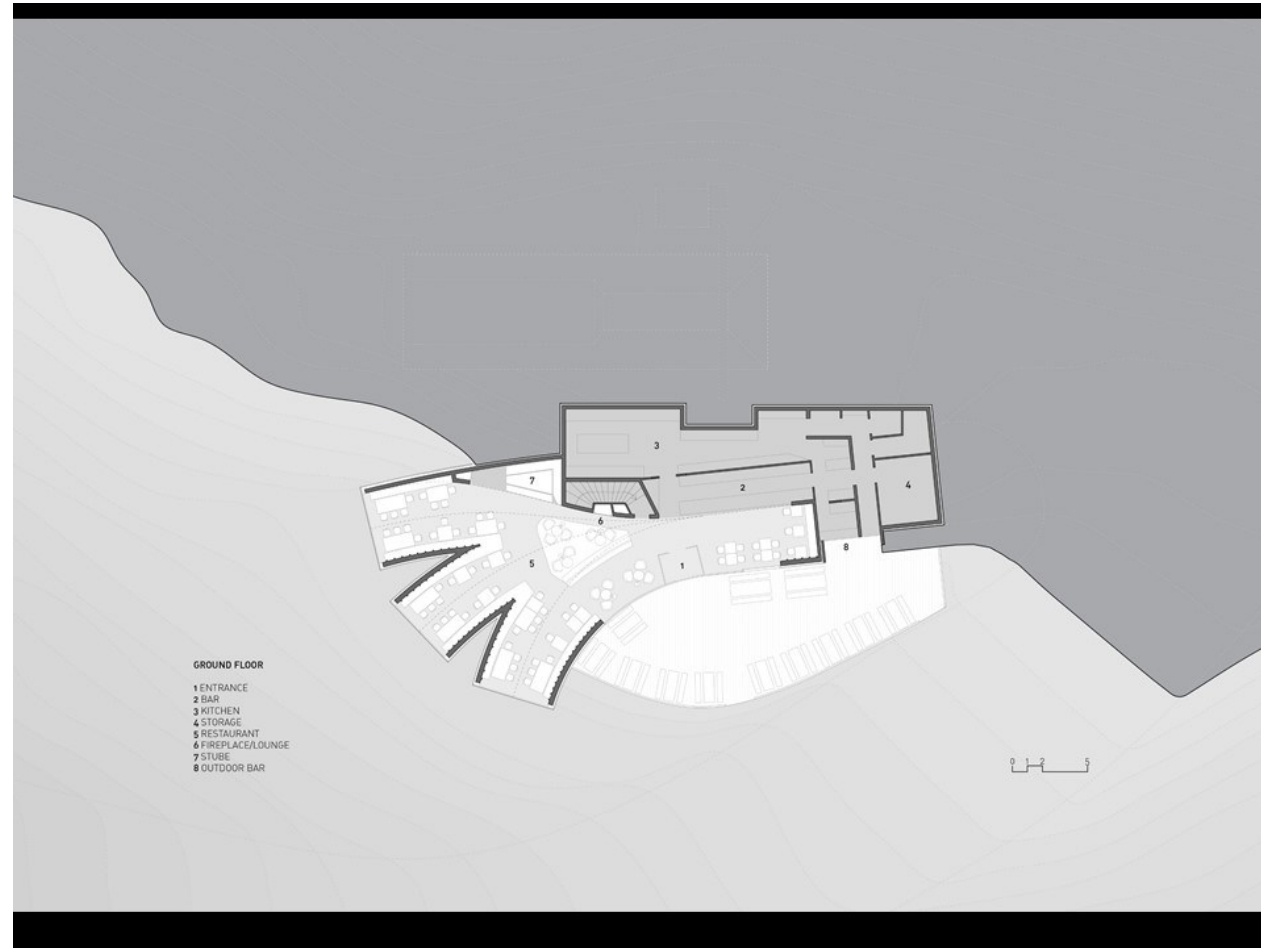


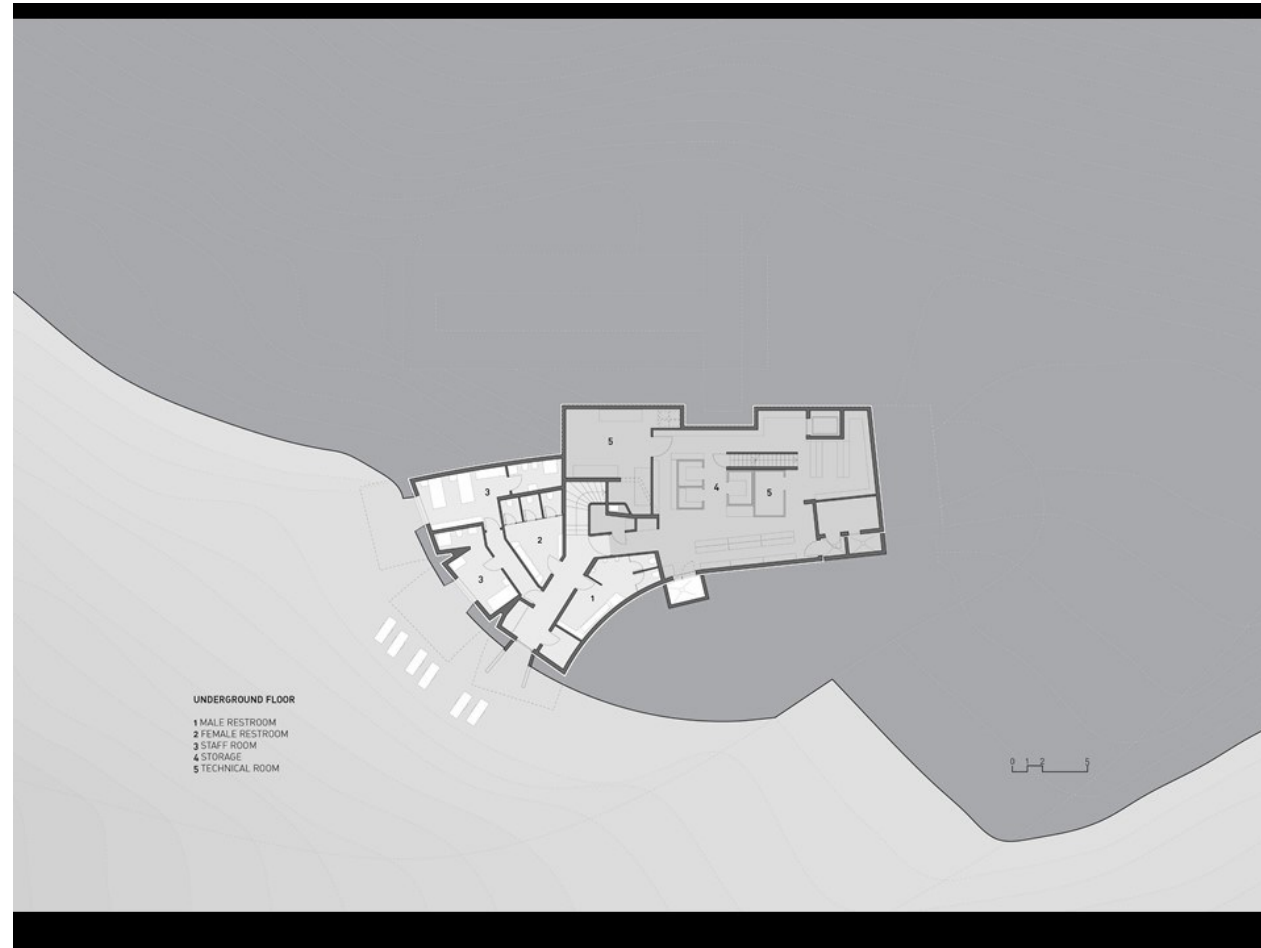


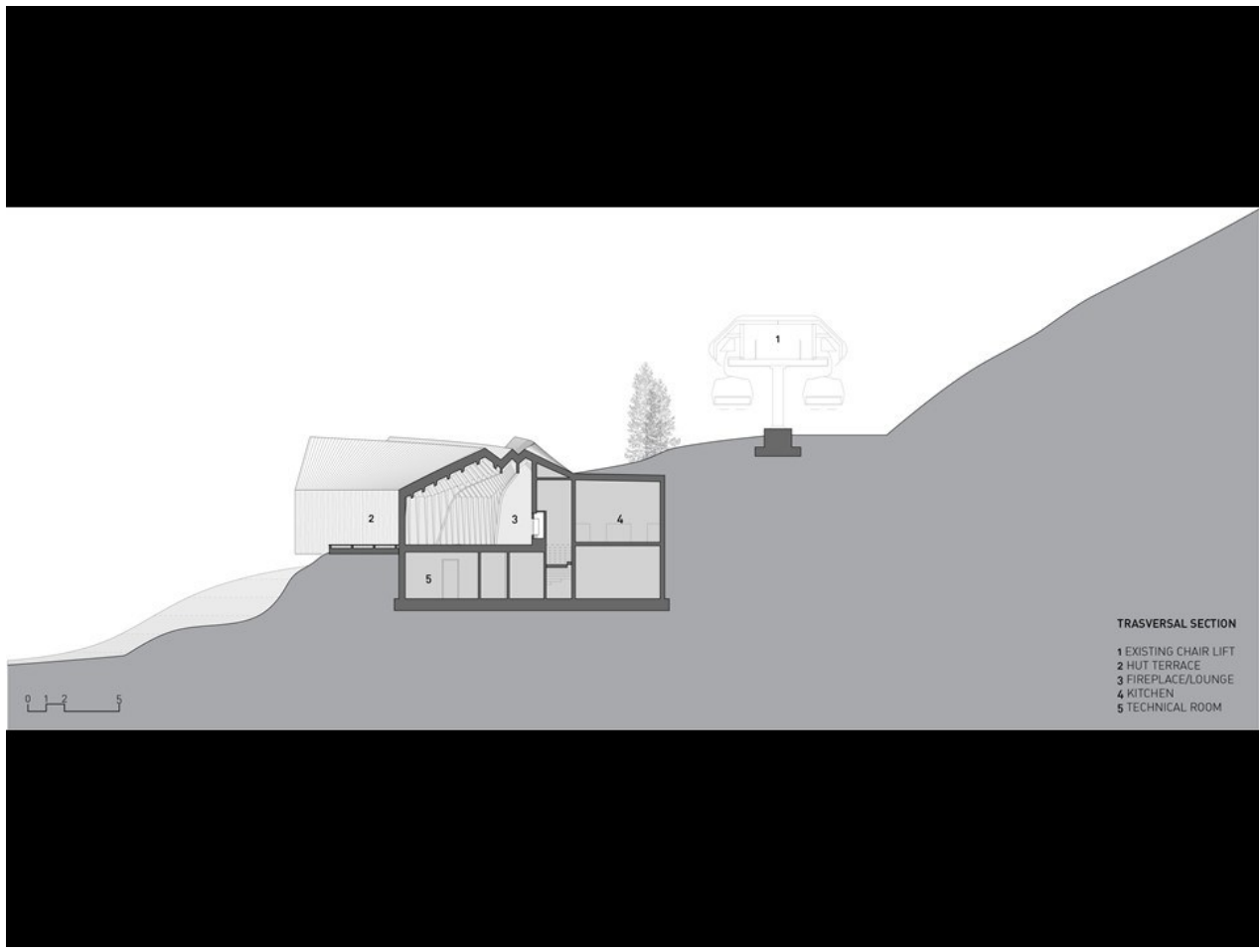


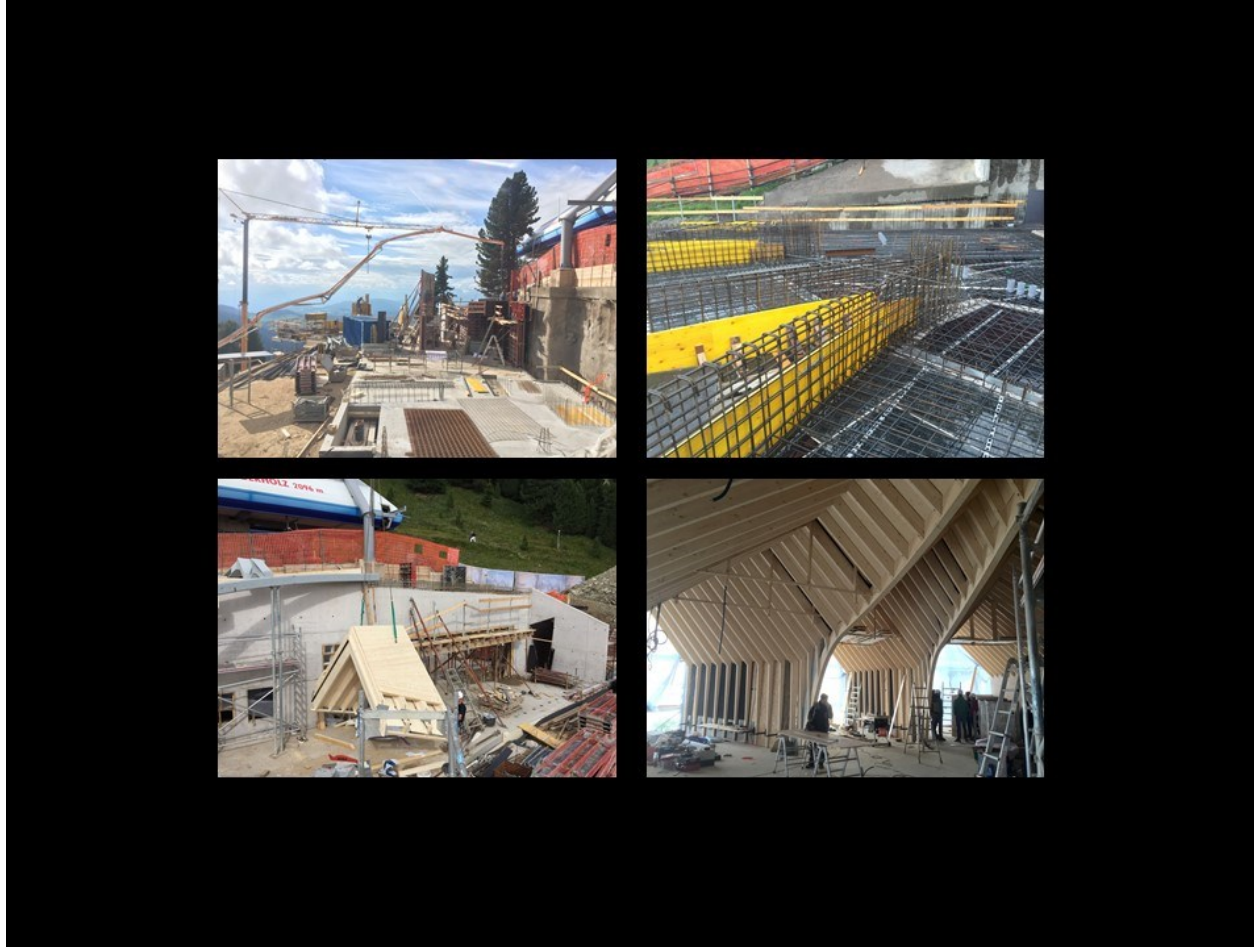


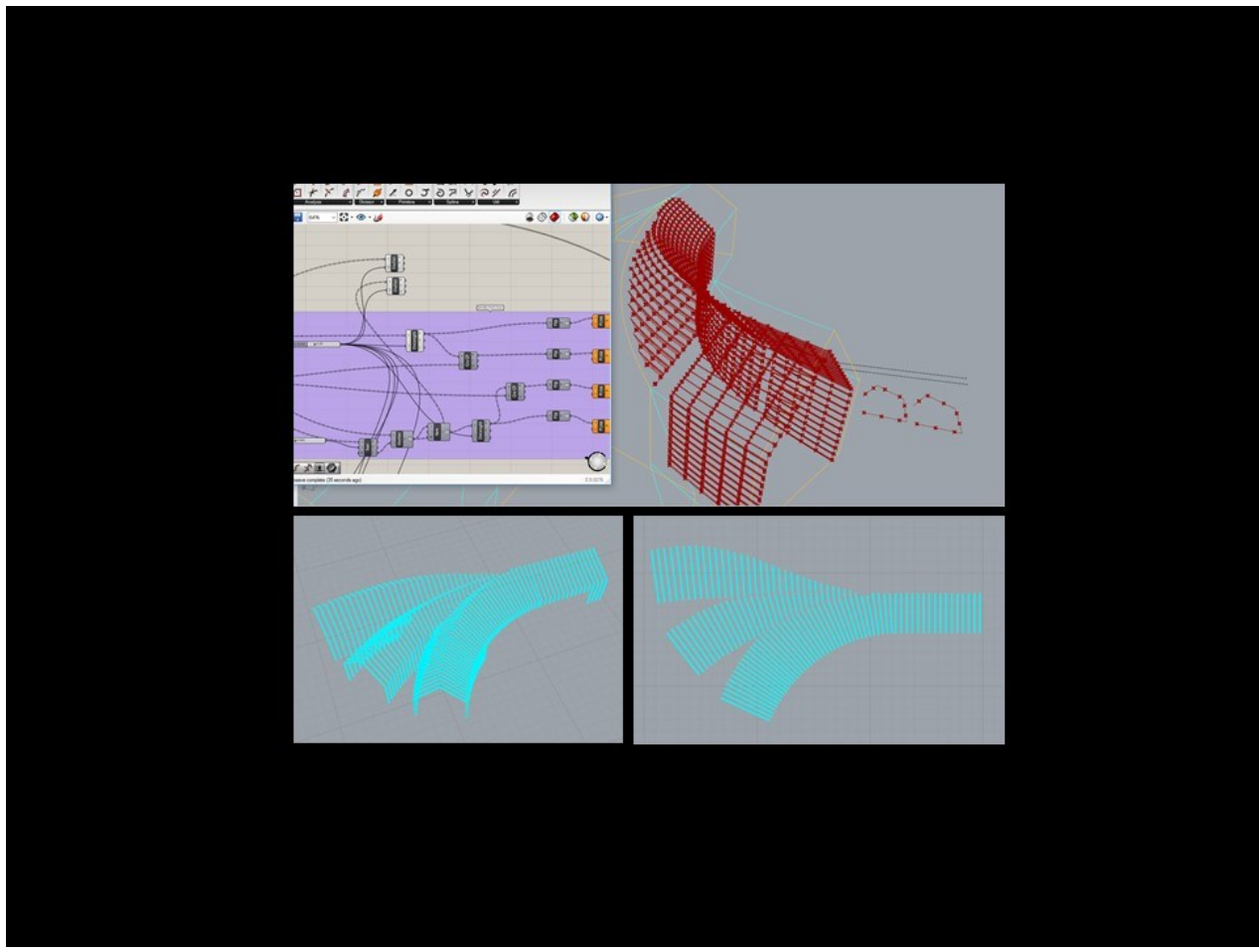






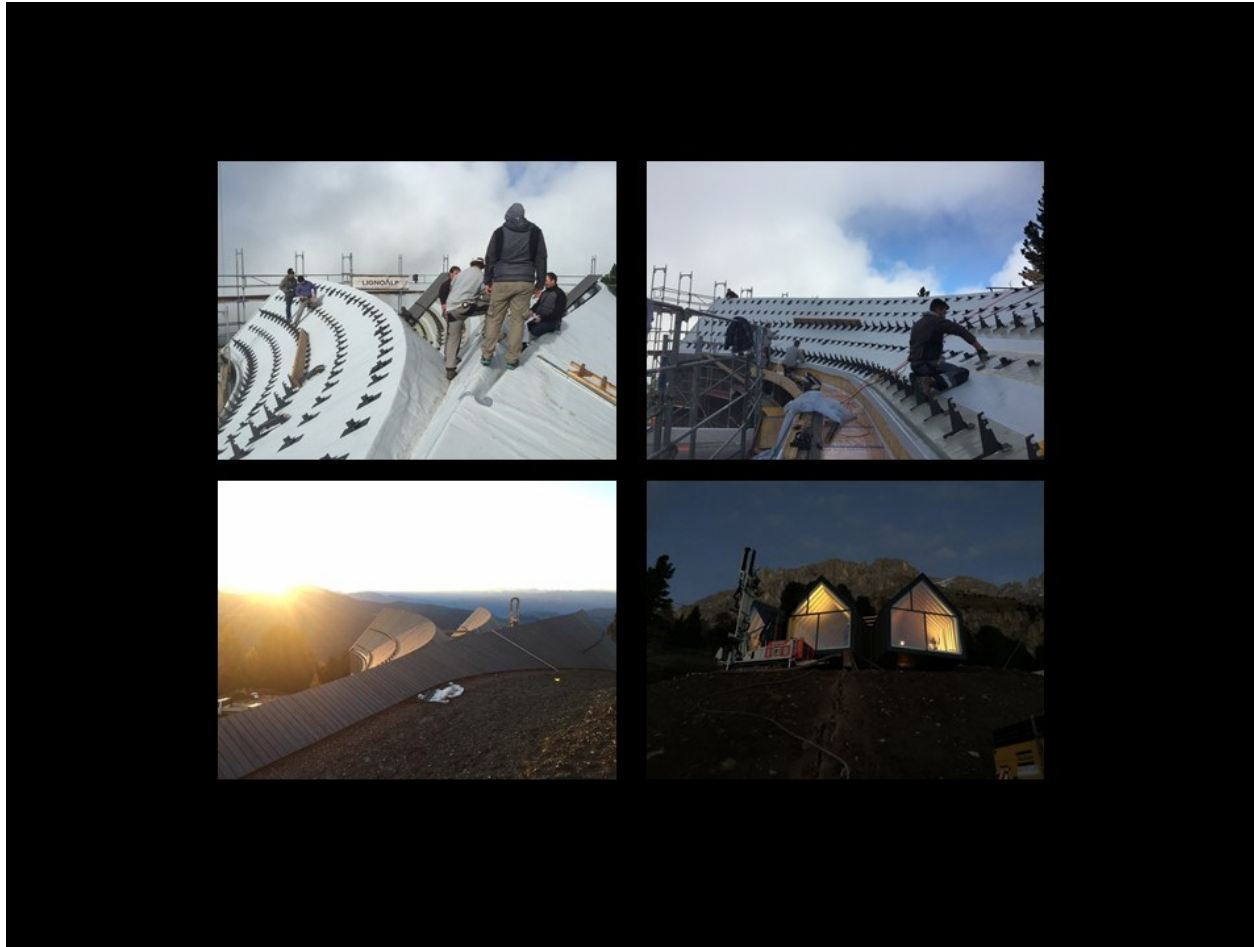












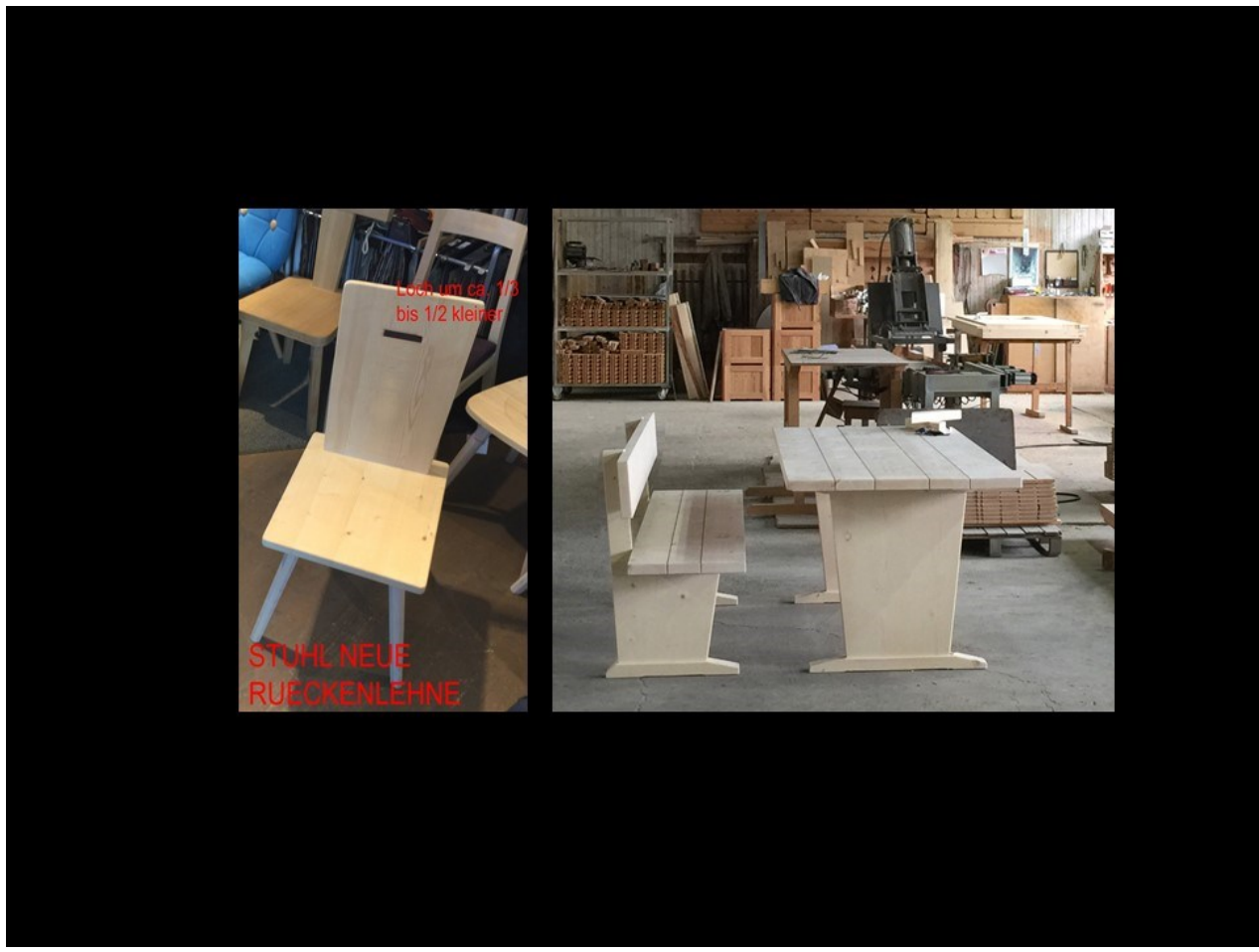




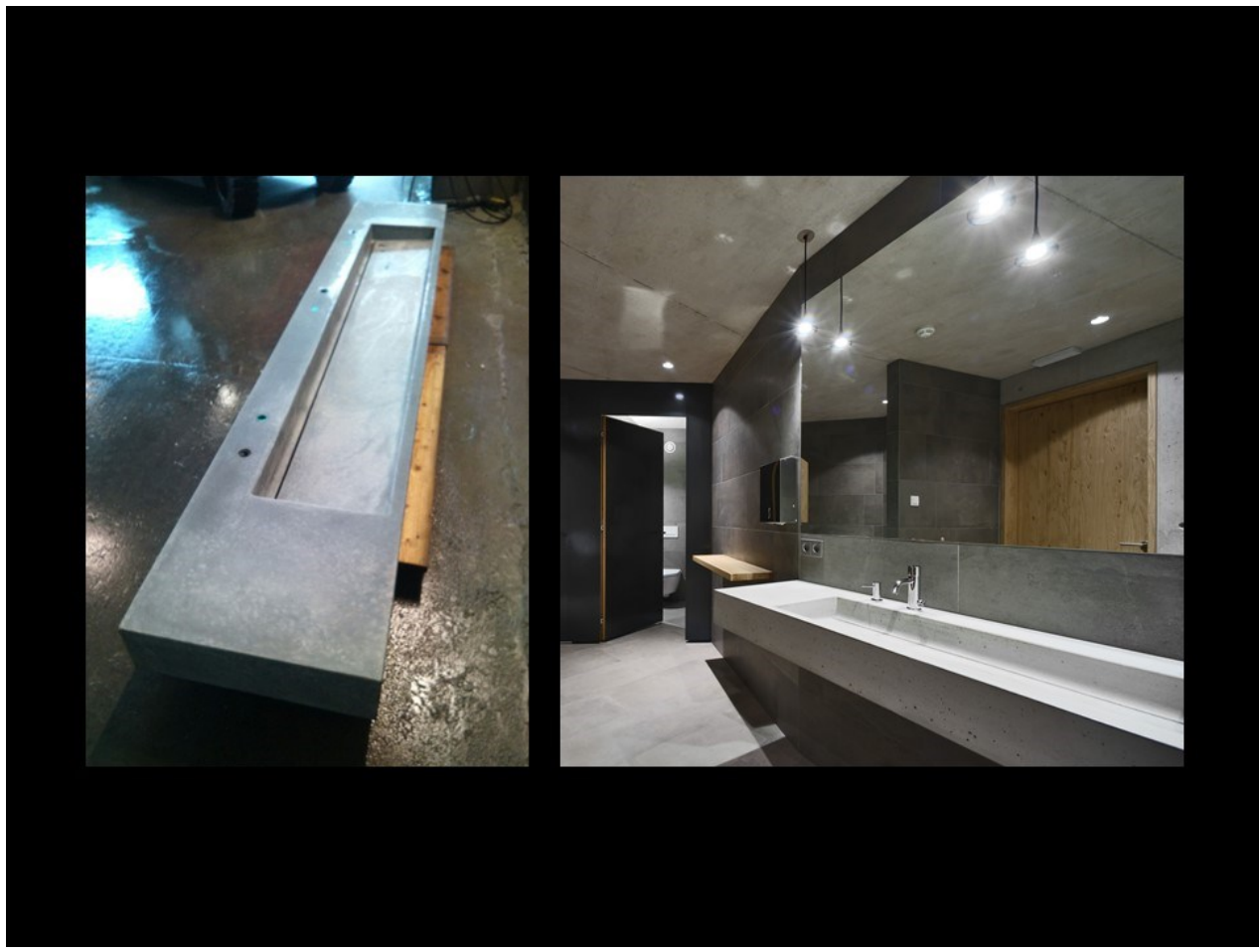
























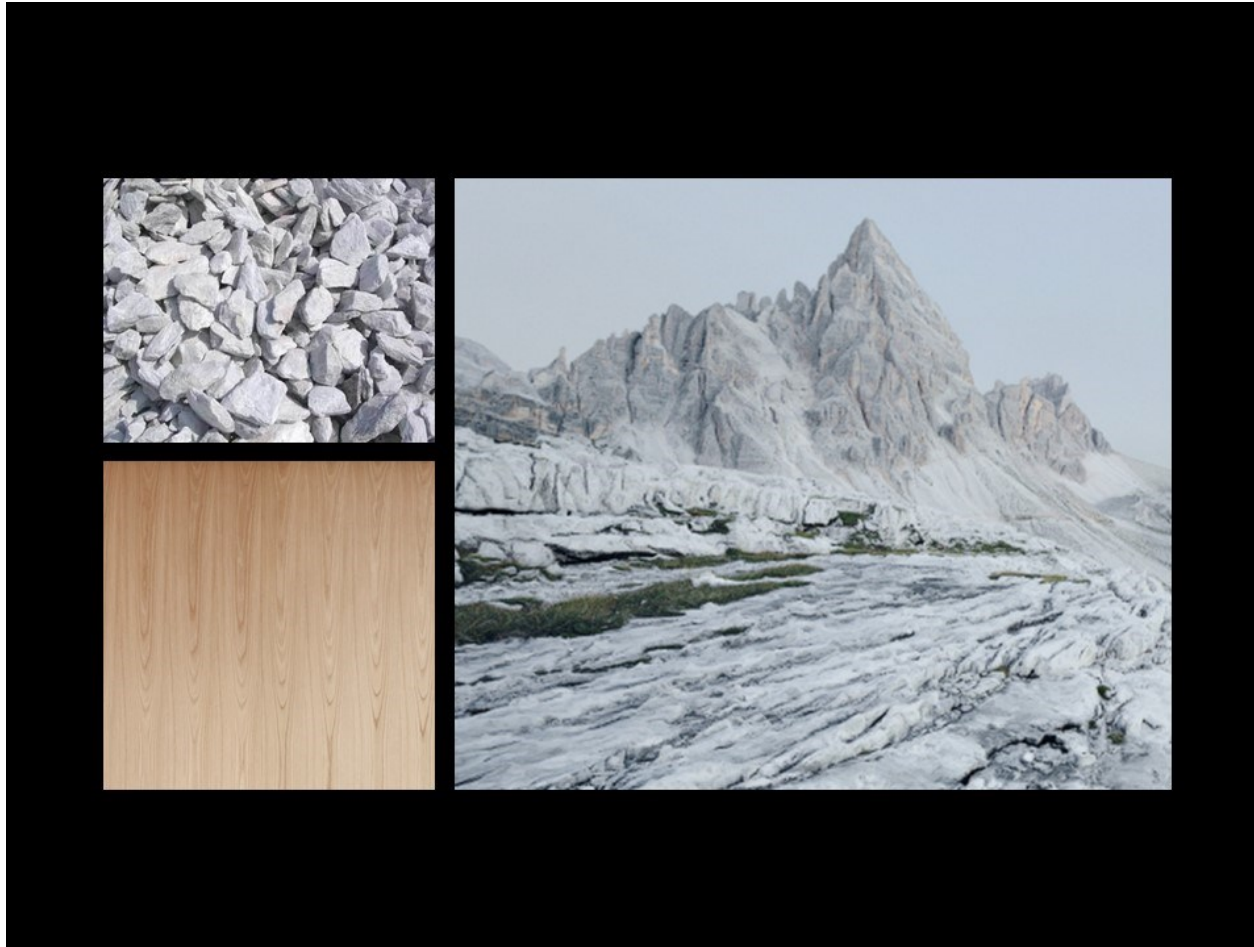










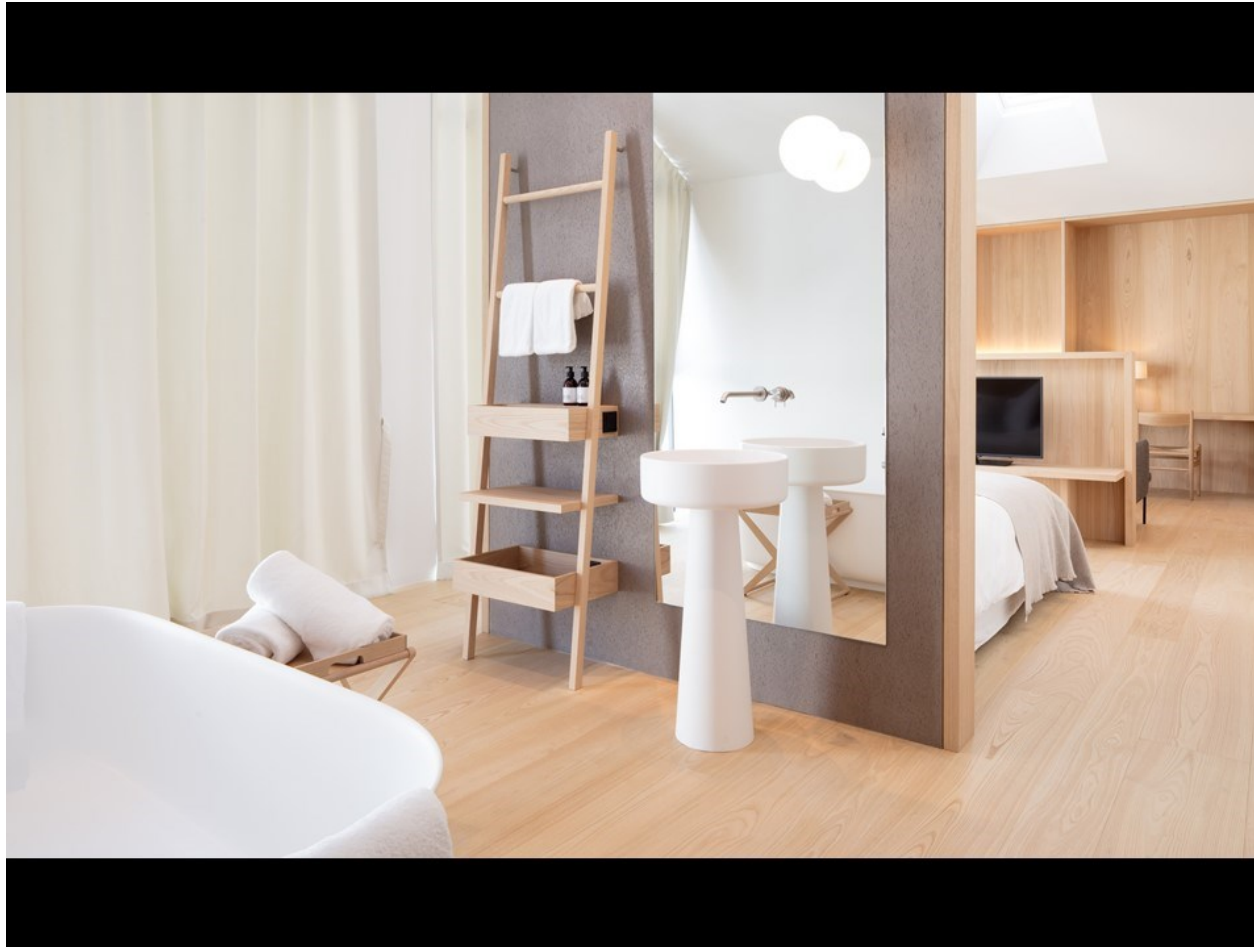


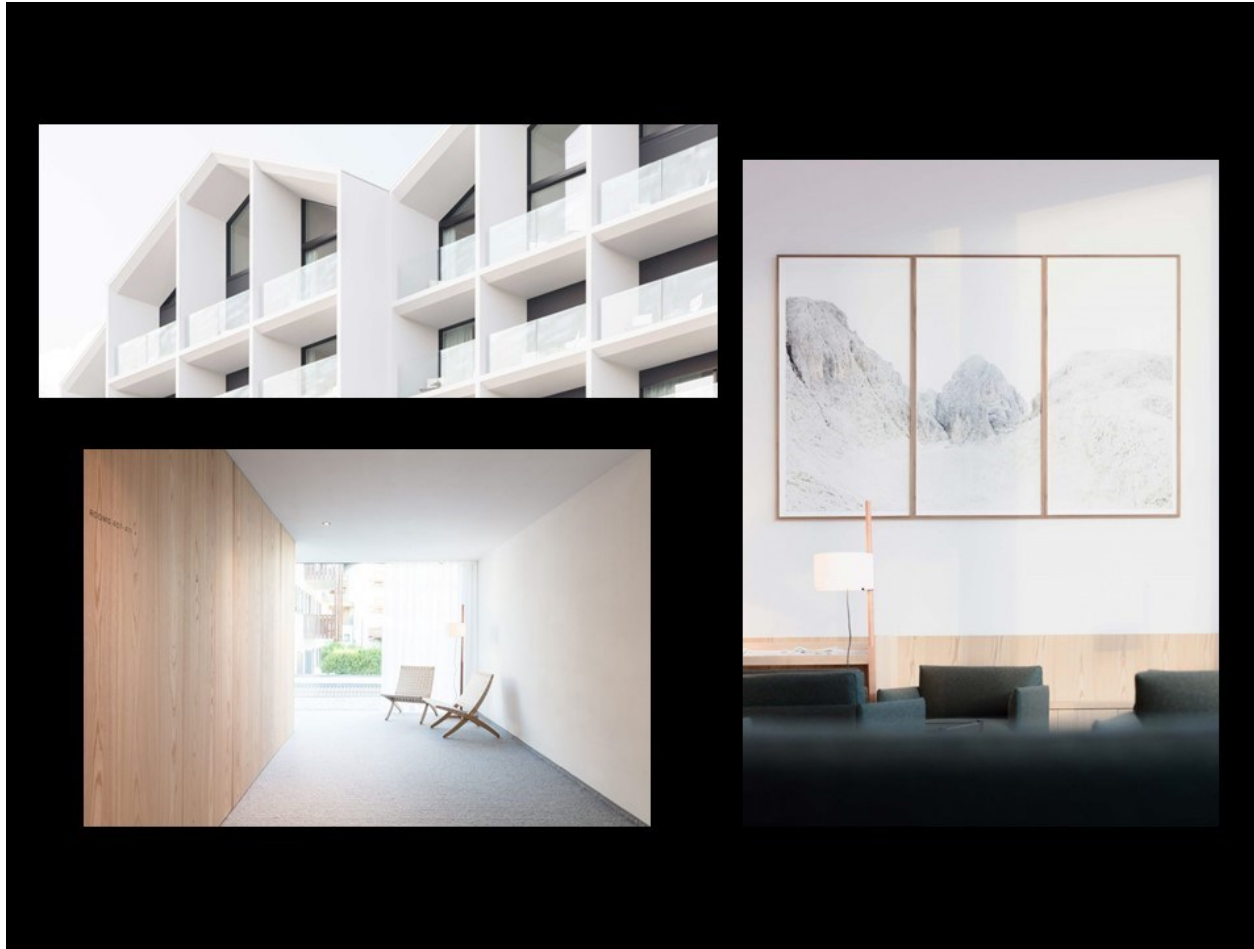


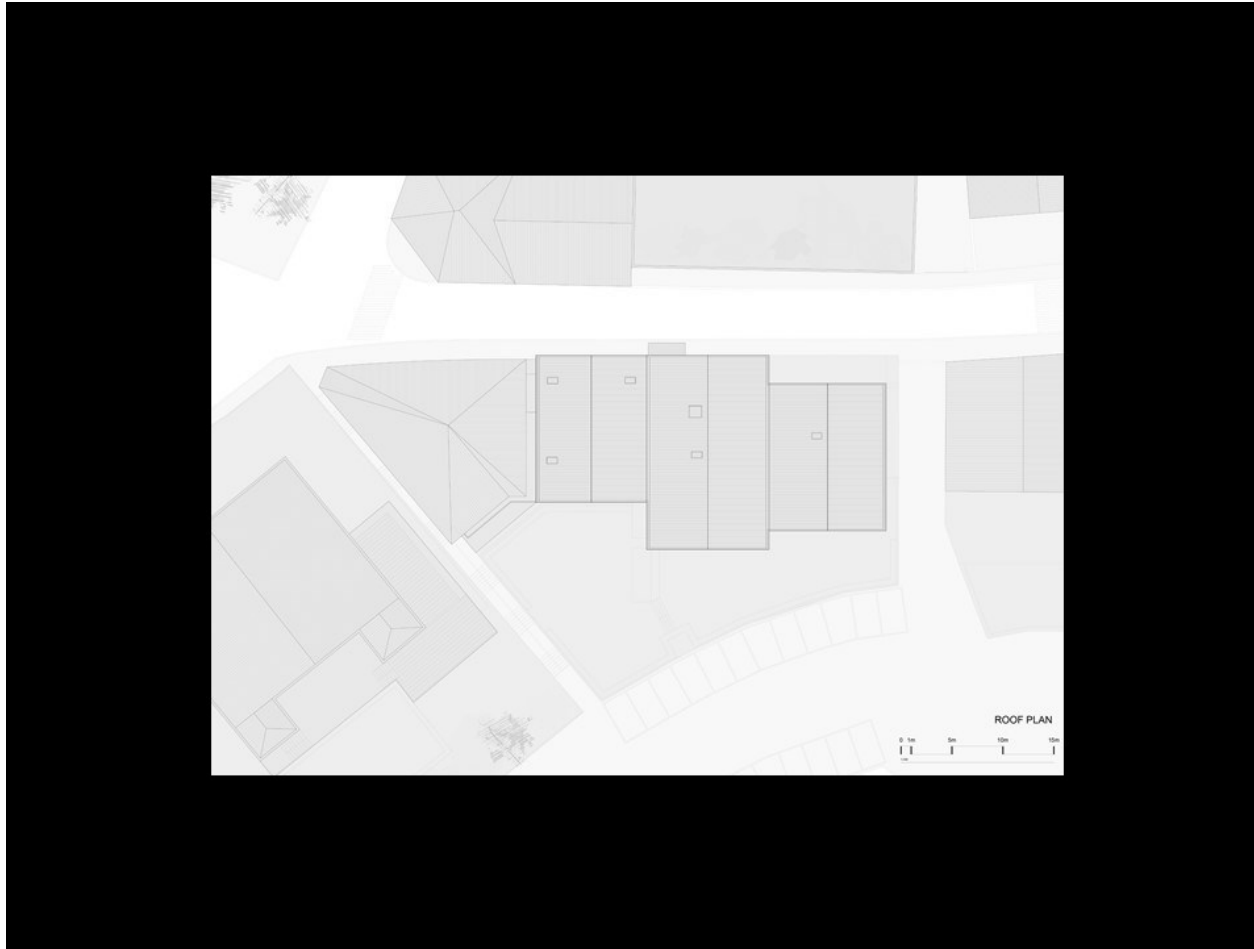


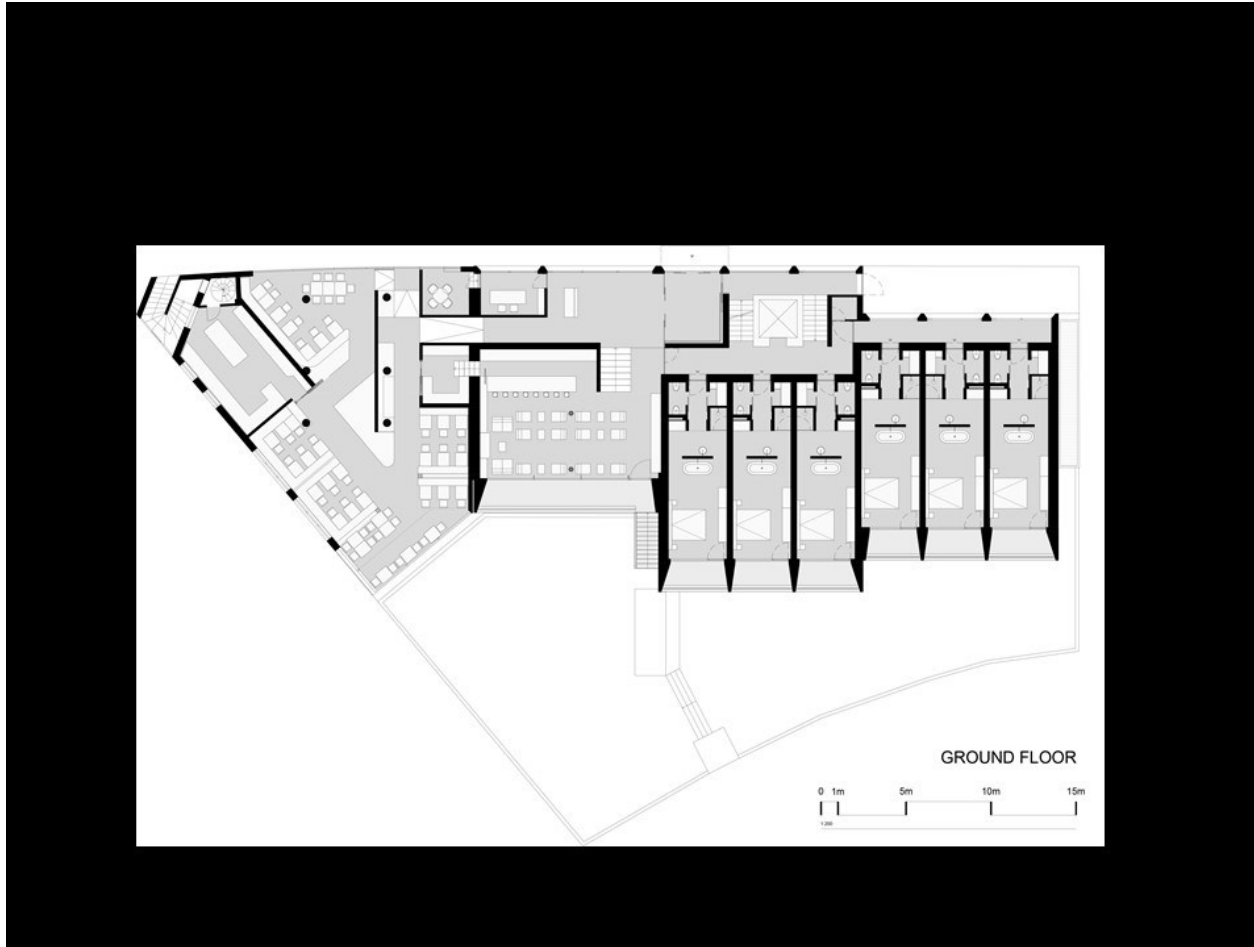


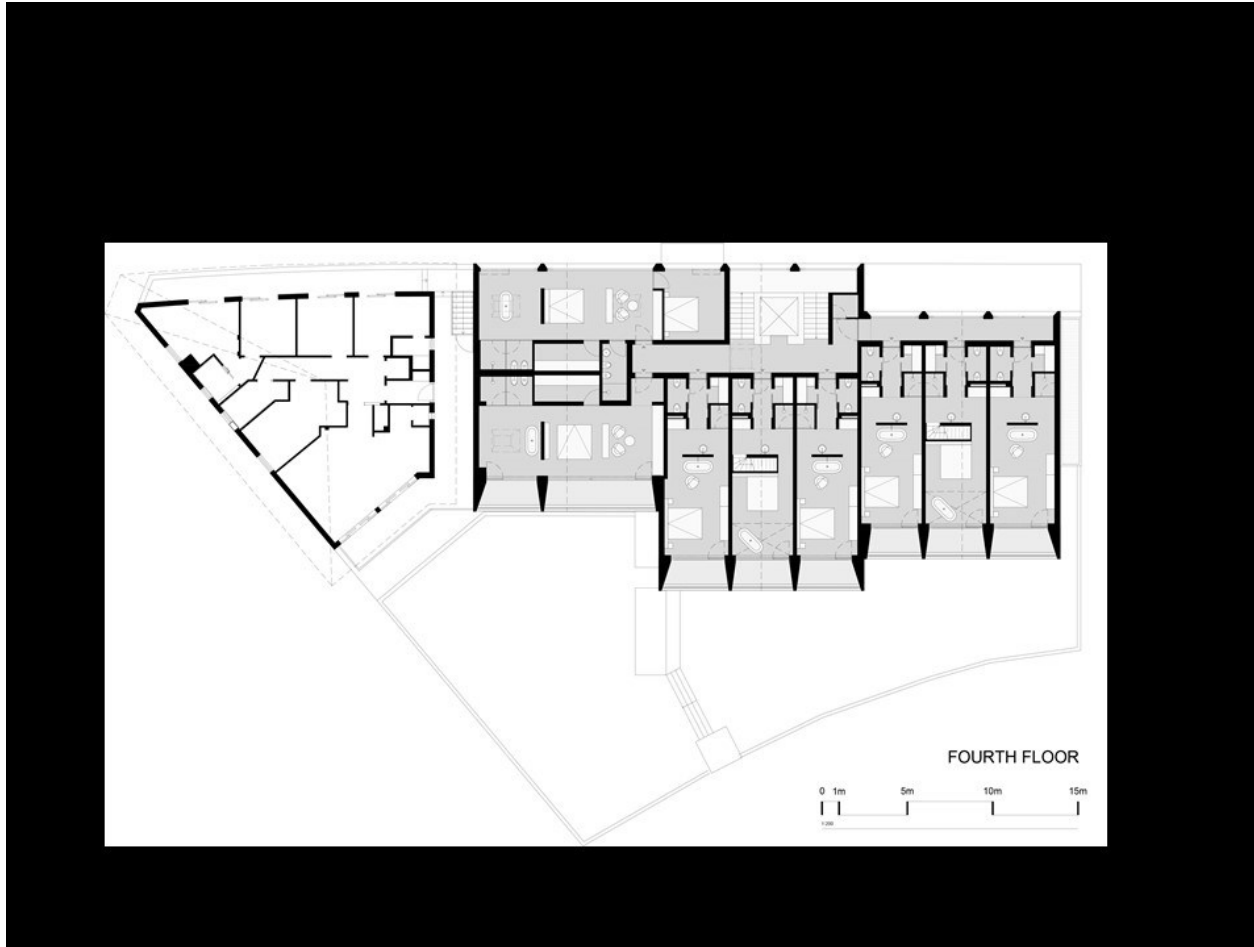






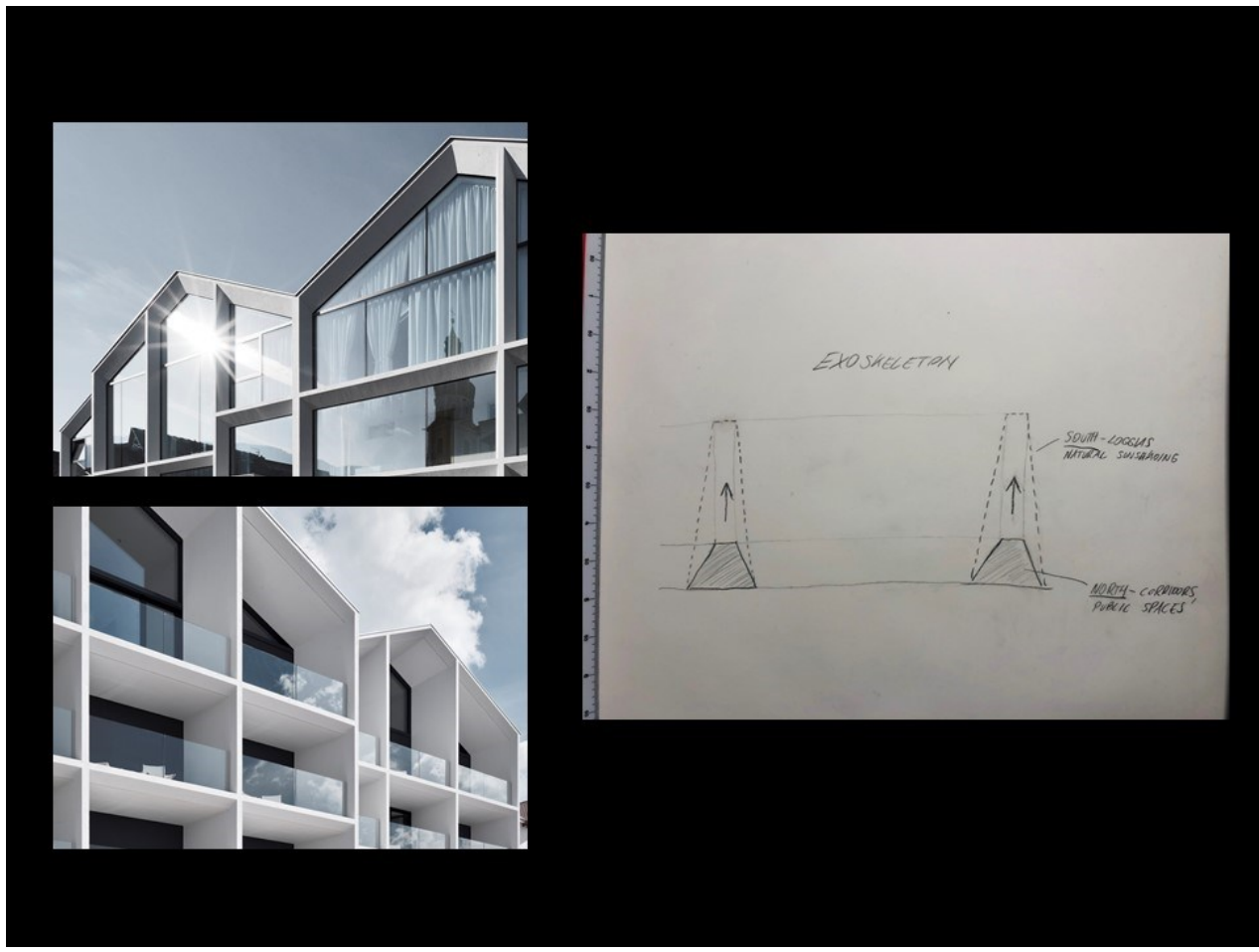


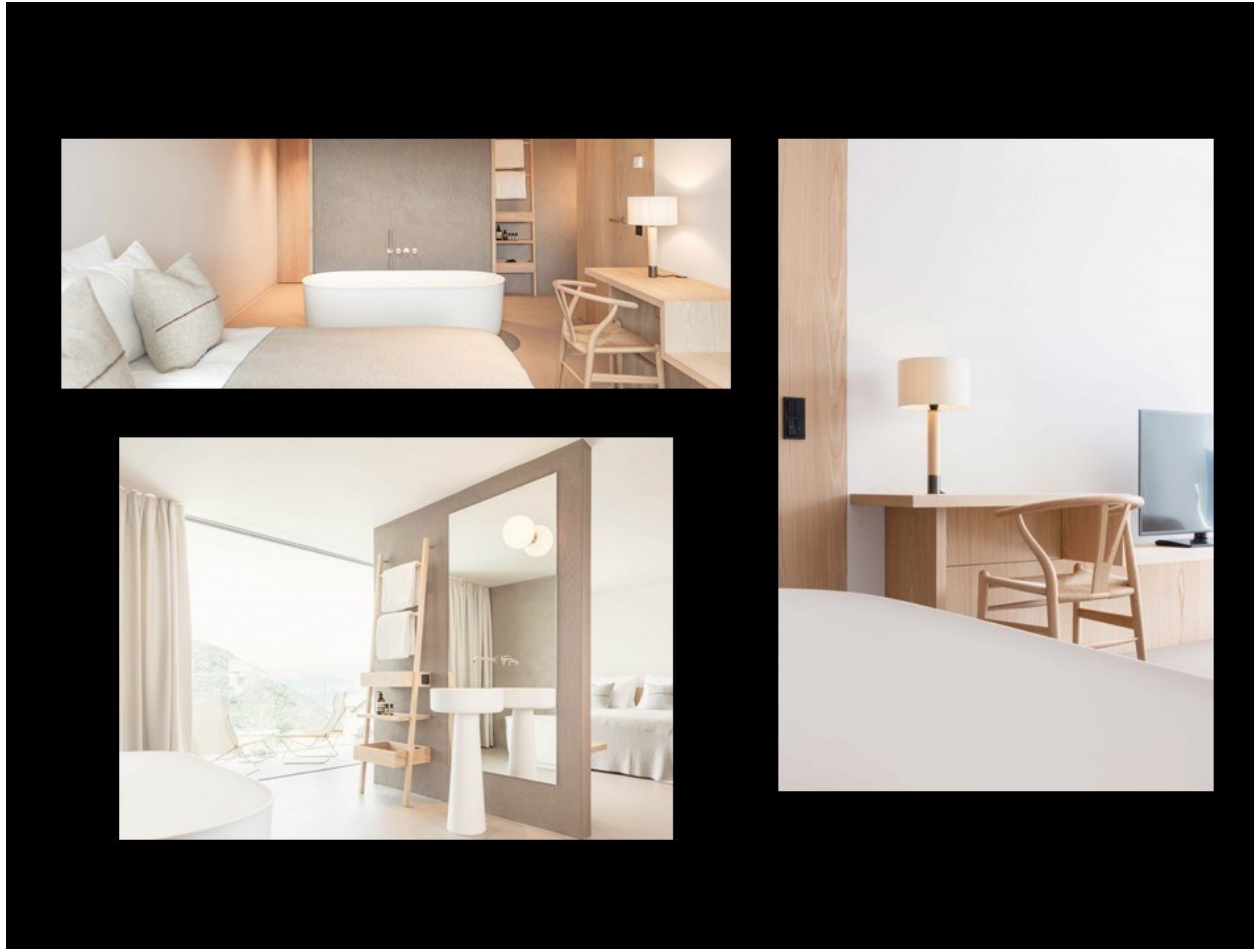




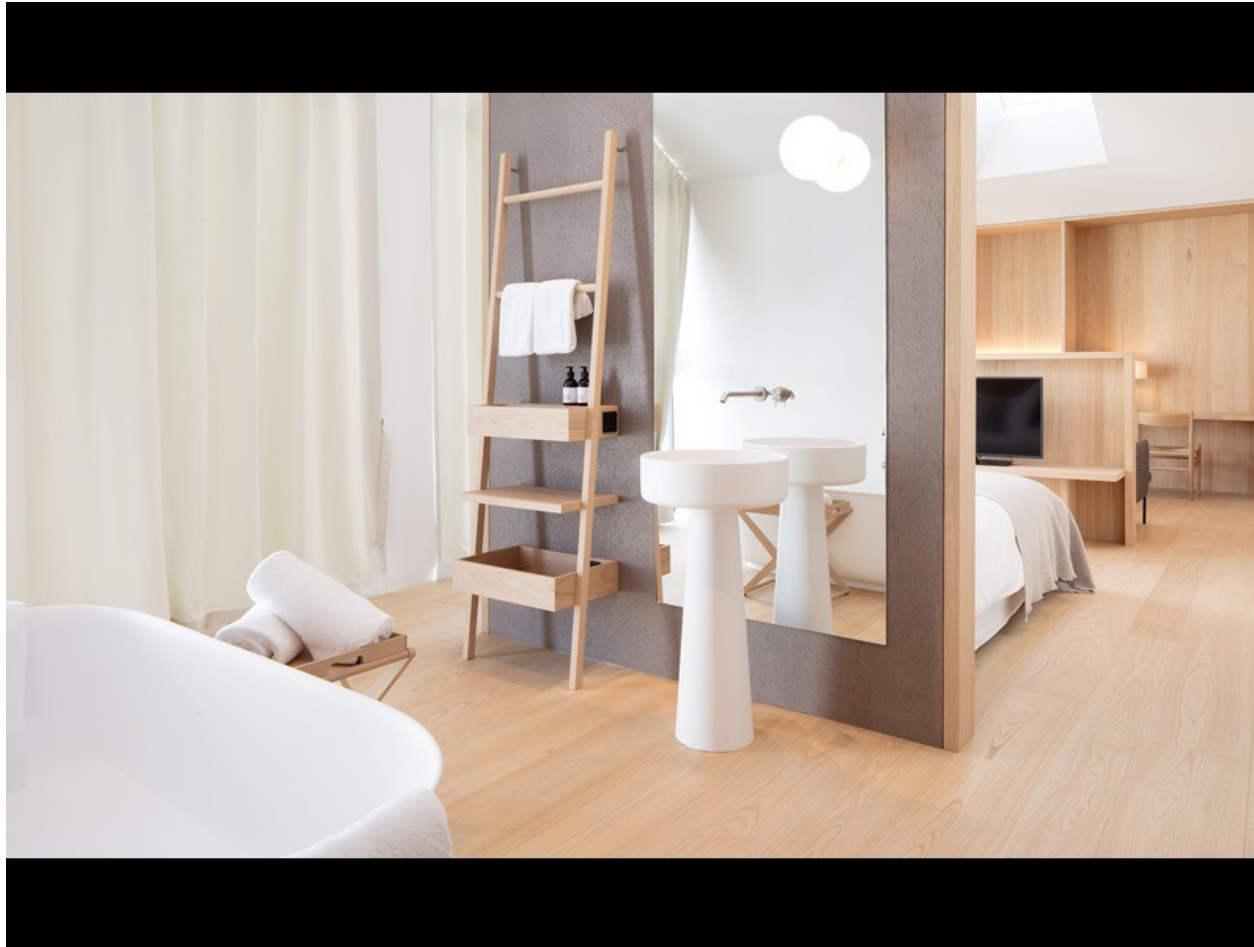


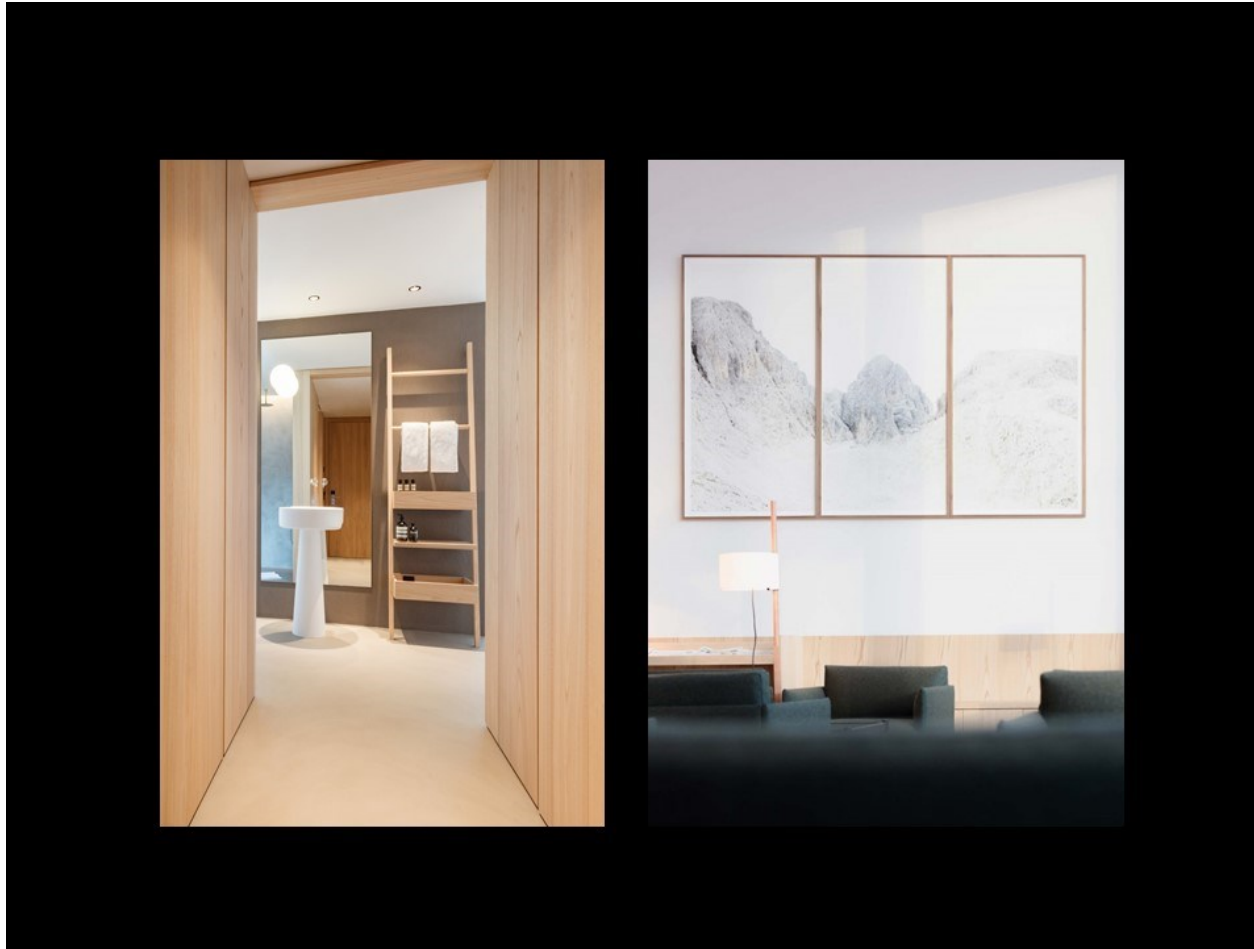


























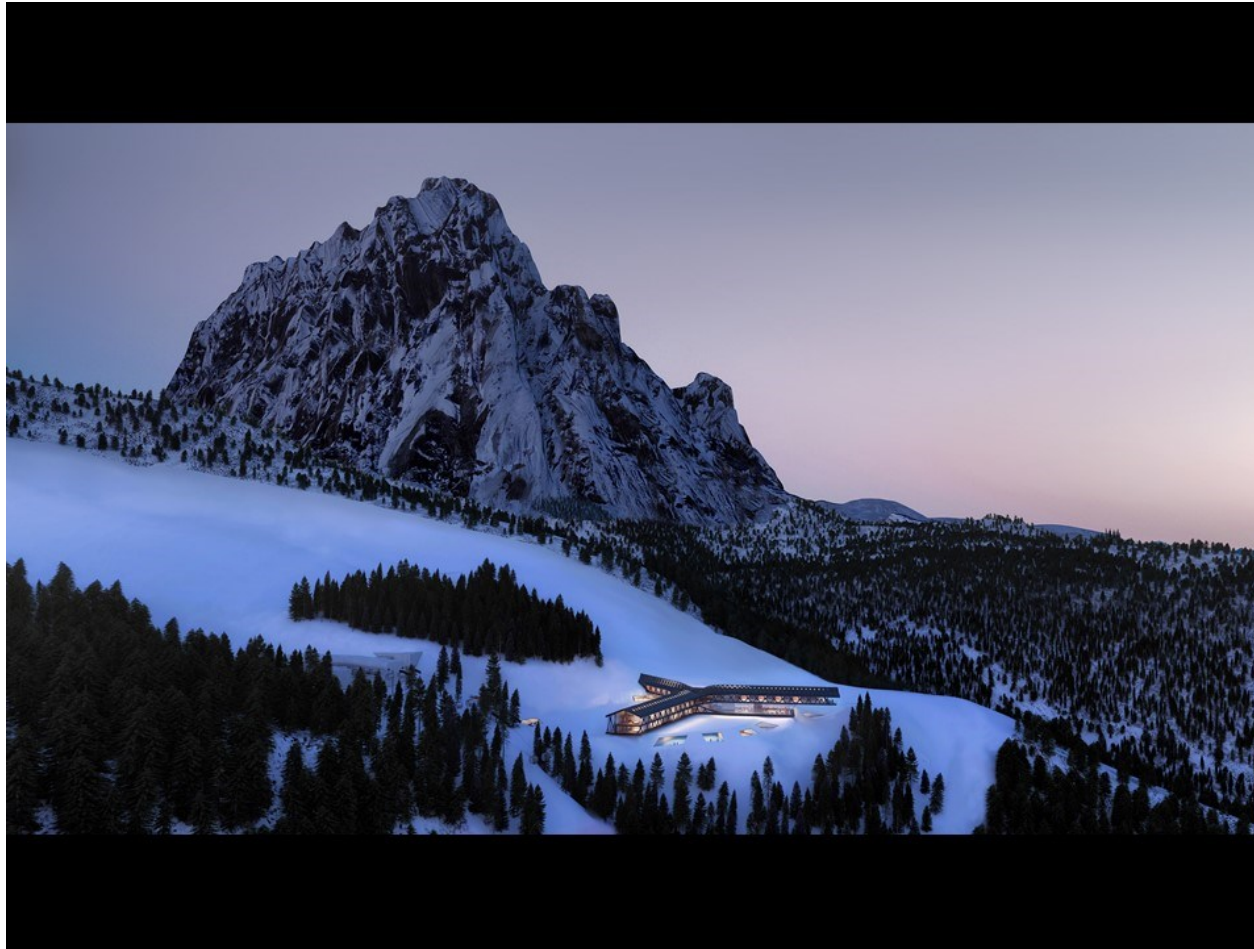


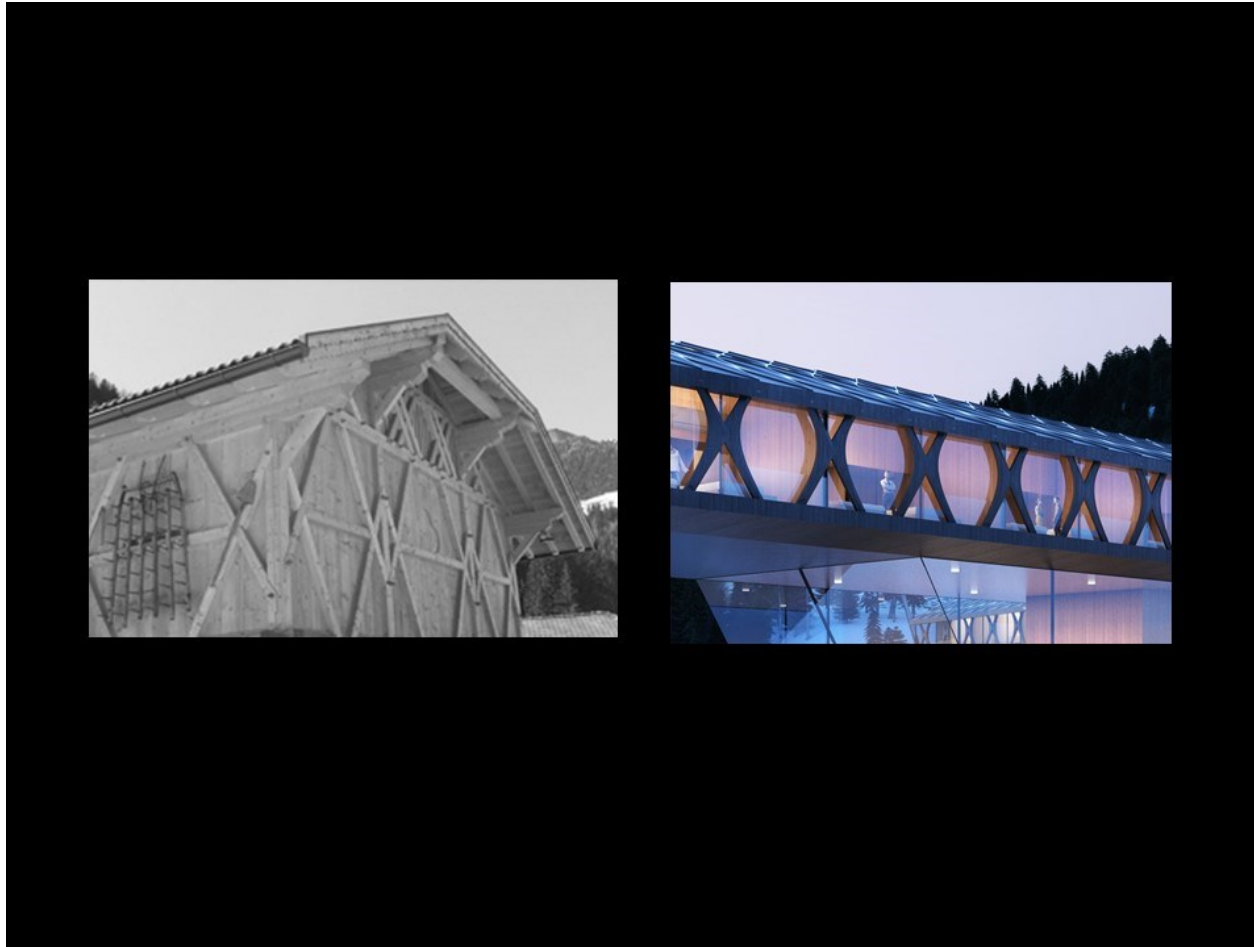


















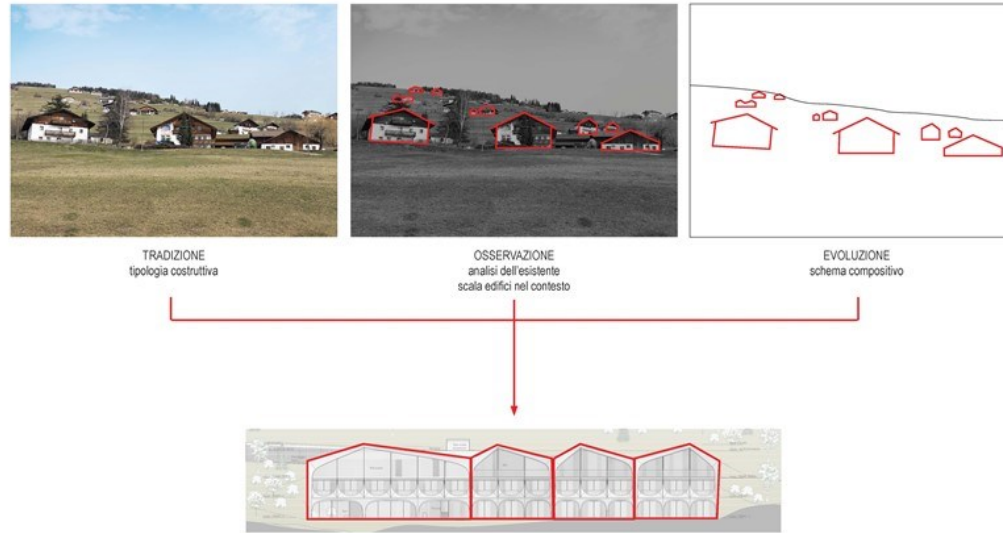






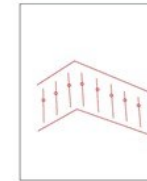


COSTRUZIONI CON TETTI A FALDA



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BALCONI E DECORAZIONI DEL LEGNO



TRADIZIONE
balconi in legno

OSSERVAZIONE
analisi dell'esistente

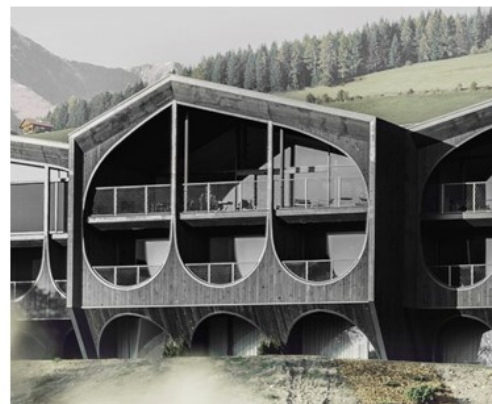
EVOLUZIONE
linguaggio compositivo

DA PATTERN...
decorazione



... A STRUTTURA
esoscheletro

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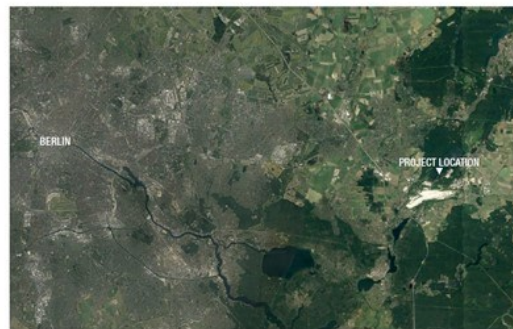












PROJECT LOCATION
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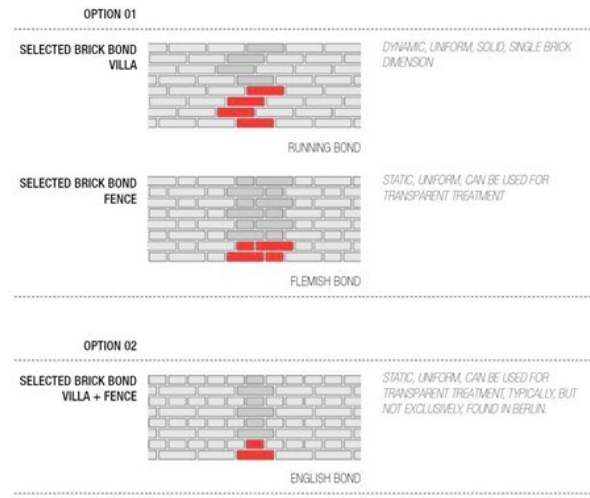
SITE PHOTOS

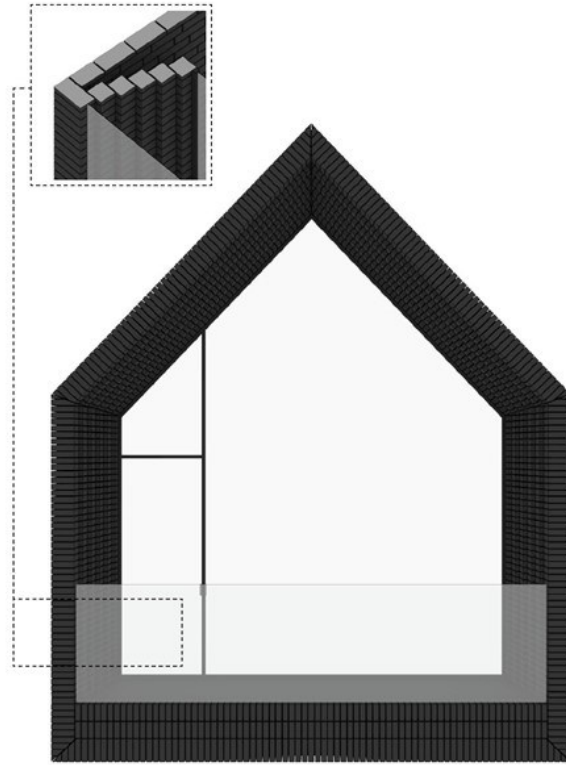
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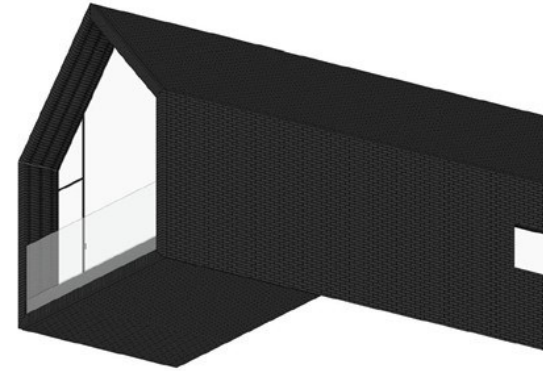
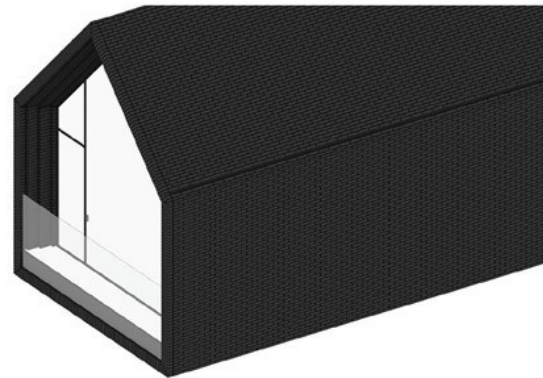








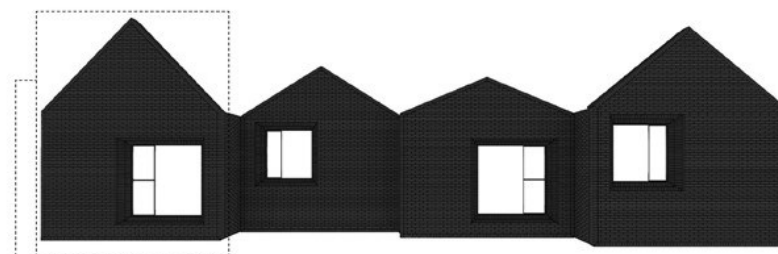
TAPERED FRAME APPROXIMATION



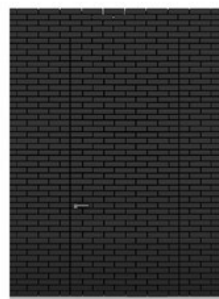
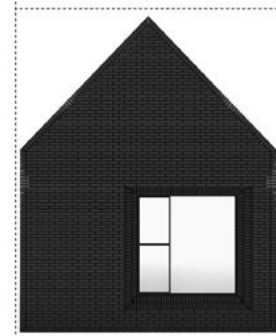
OPTION 01 | HORIZONTAL BRICKS WITH INTEGRATED GUTTER

BRICK DETAILS CATALOGUE

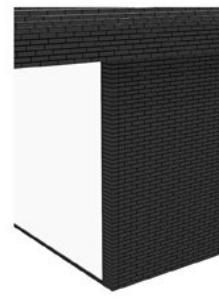
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THIN FRAME AROUND EDGE WITH SET BACKED WINDOW



HIDDEN MAIN DOOR WITH BRICK TEXTURE



BRICK DETAIL AT GROUND FLOOR

BRICK DETAILS CATALOGUE

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PUTBUS, RÜGEN, GERMANY



PROJECT AREA

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RUBNER



SOLTECH
Soluzioni Tecniche per l'Edilizia in Legno S.R.L.





ROOF TYPOLOGIES

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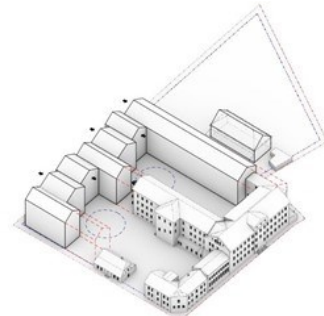
VIEWS

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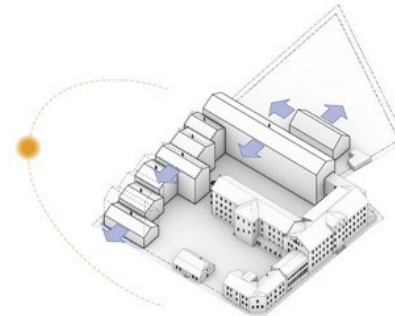


VIEW FROM ALLEESTRASSE

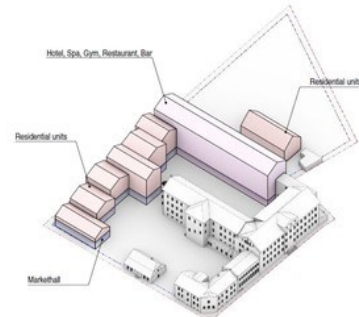
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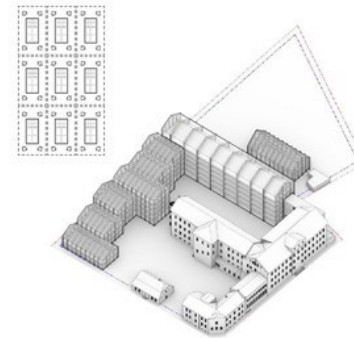
01. CONTINUATION EXISTING MASSING TO DEFINE COURTYARDS



02. VIEWS AND MAXIMIZE NATURAL LIGHT

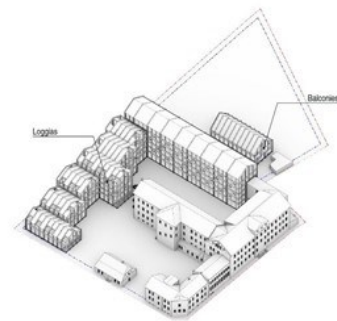


03. PROGRAM & PUBLIC GROUND FLOOR

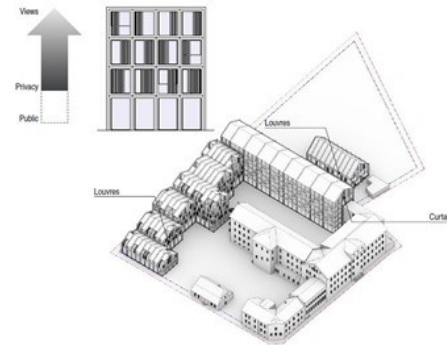


04. EXO-SKELETON INSPIRED BY EXISTING BUILDING FACADE

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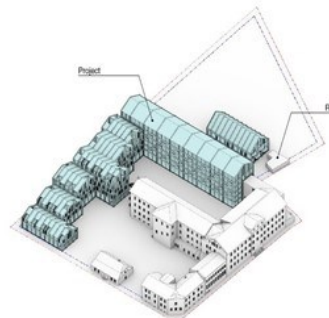
05. LOGGIAS & BALCONIES



06. LOUVRES & CURTAINS FOR PRIVACY



07. GREEN COURTYARDS & UNDERGROUND PARKING



08. PROJECT & RUIN

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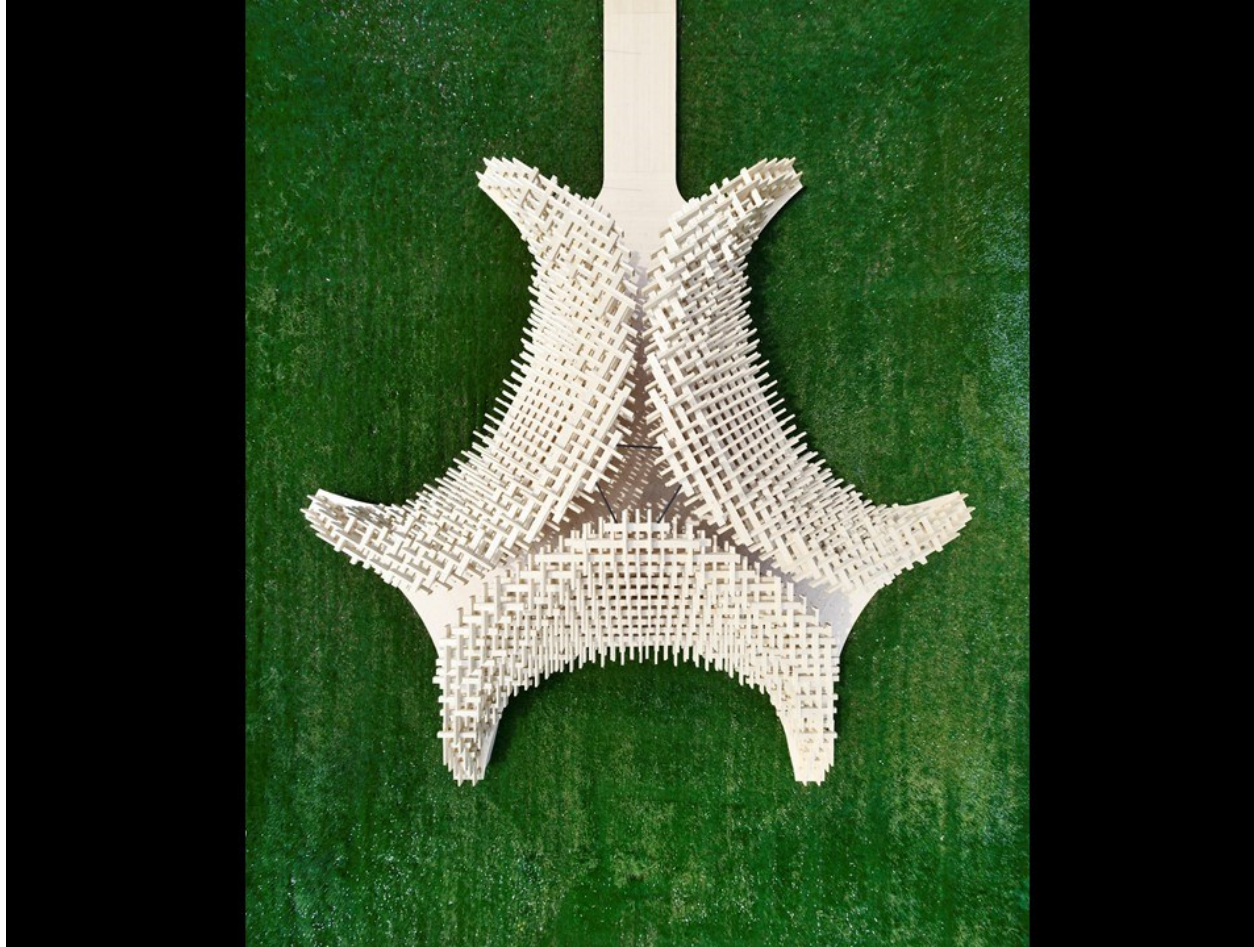


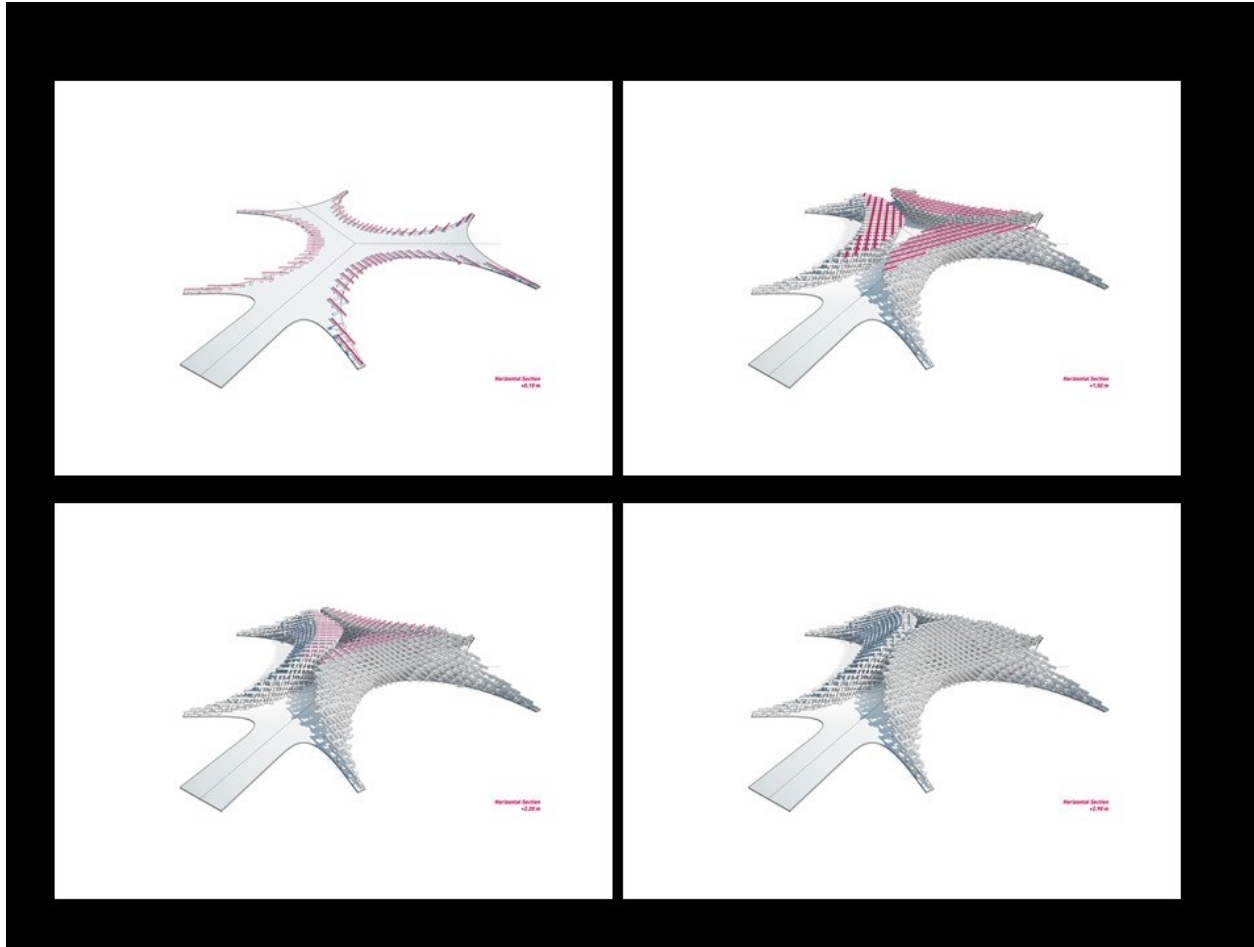
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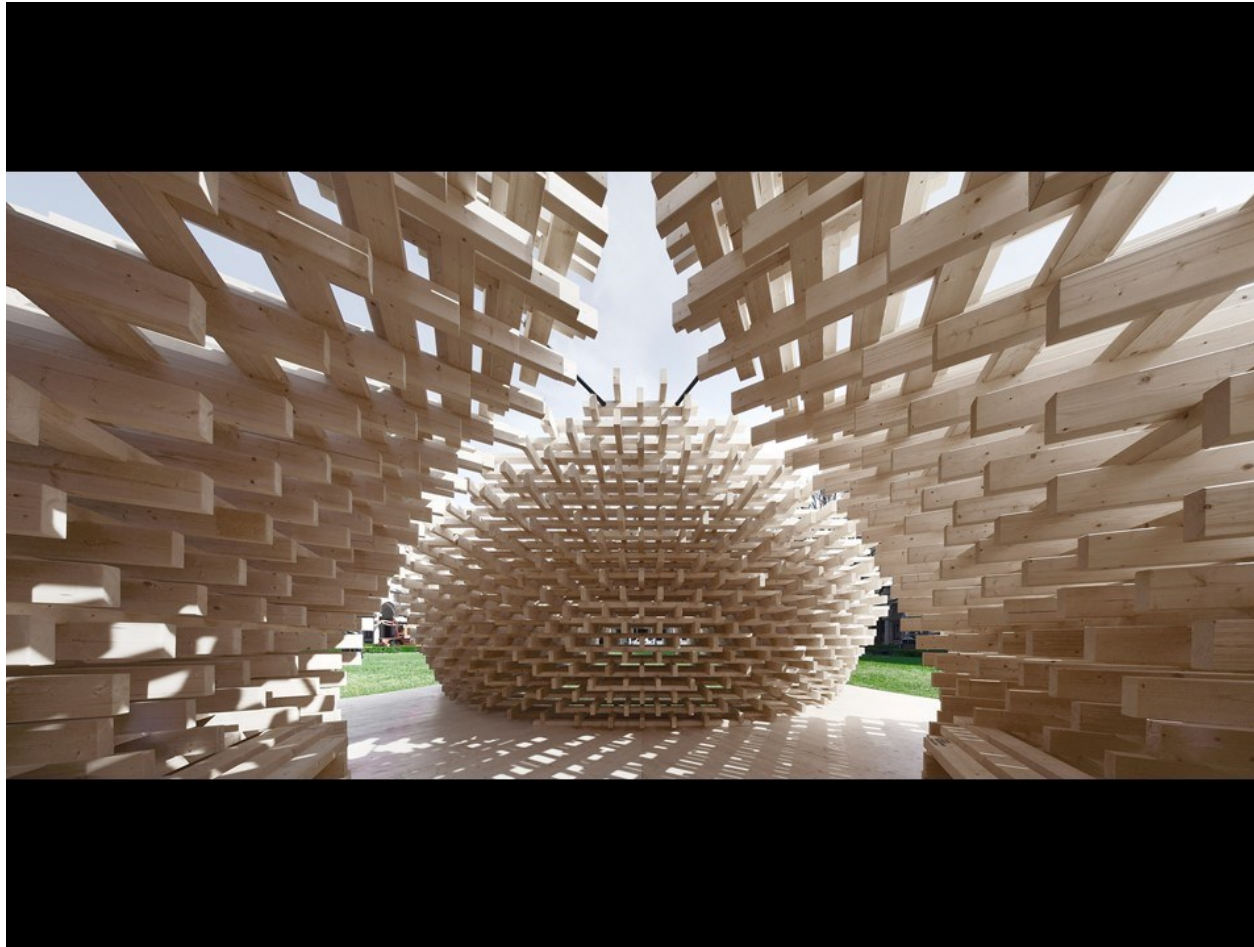










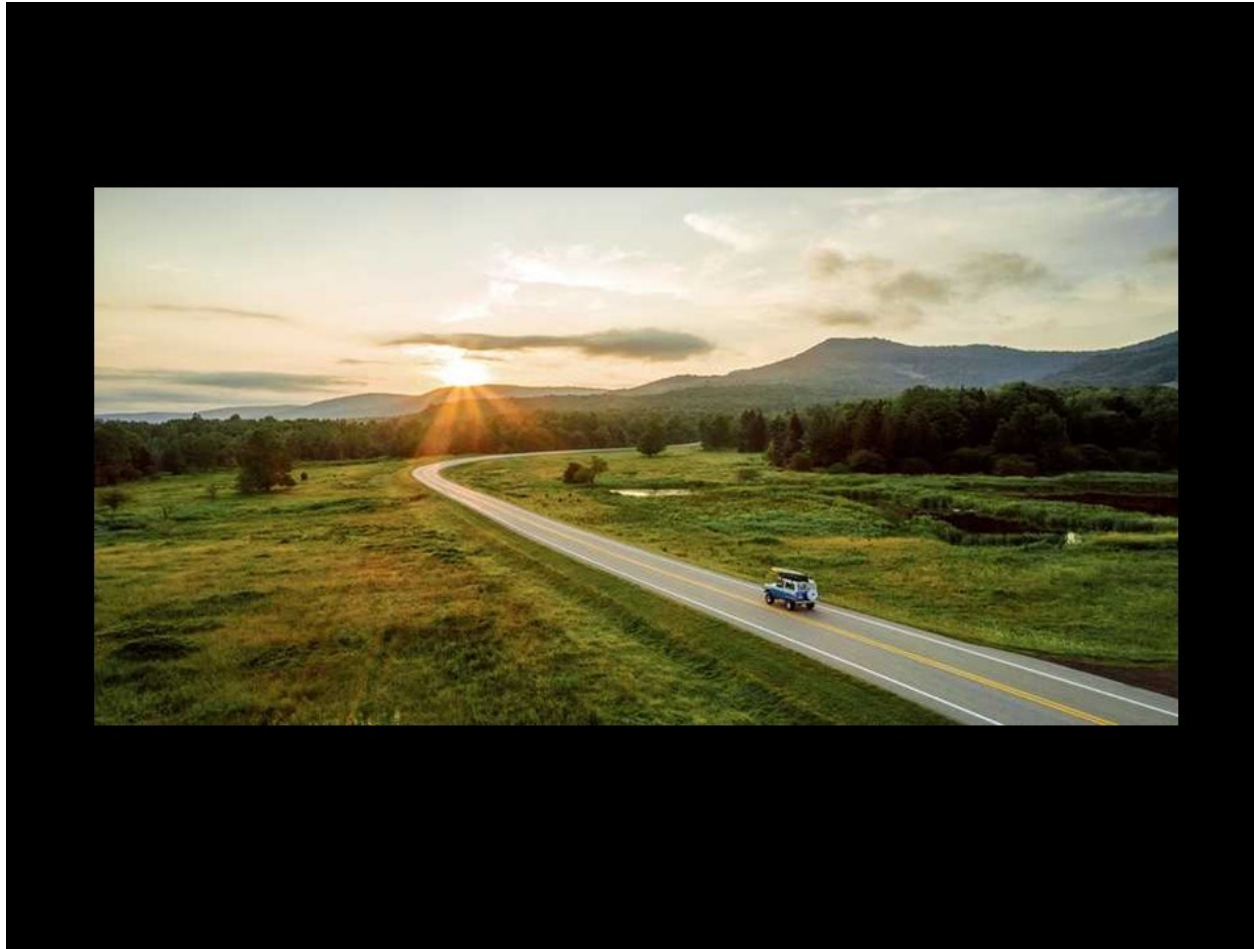




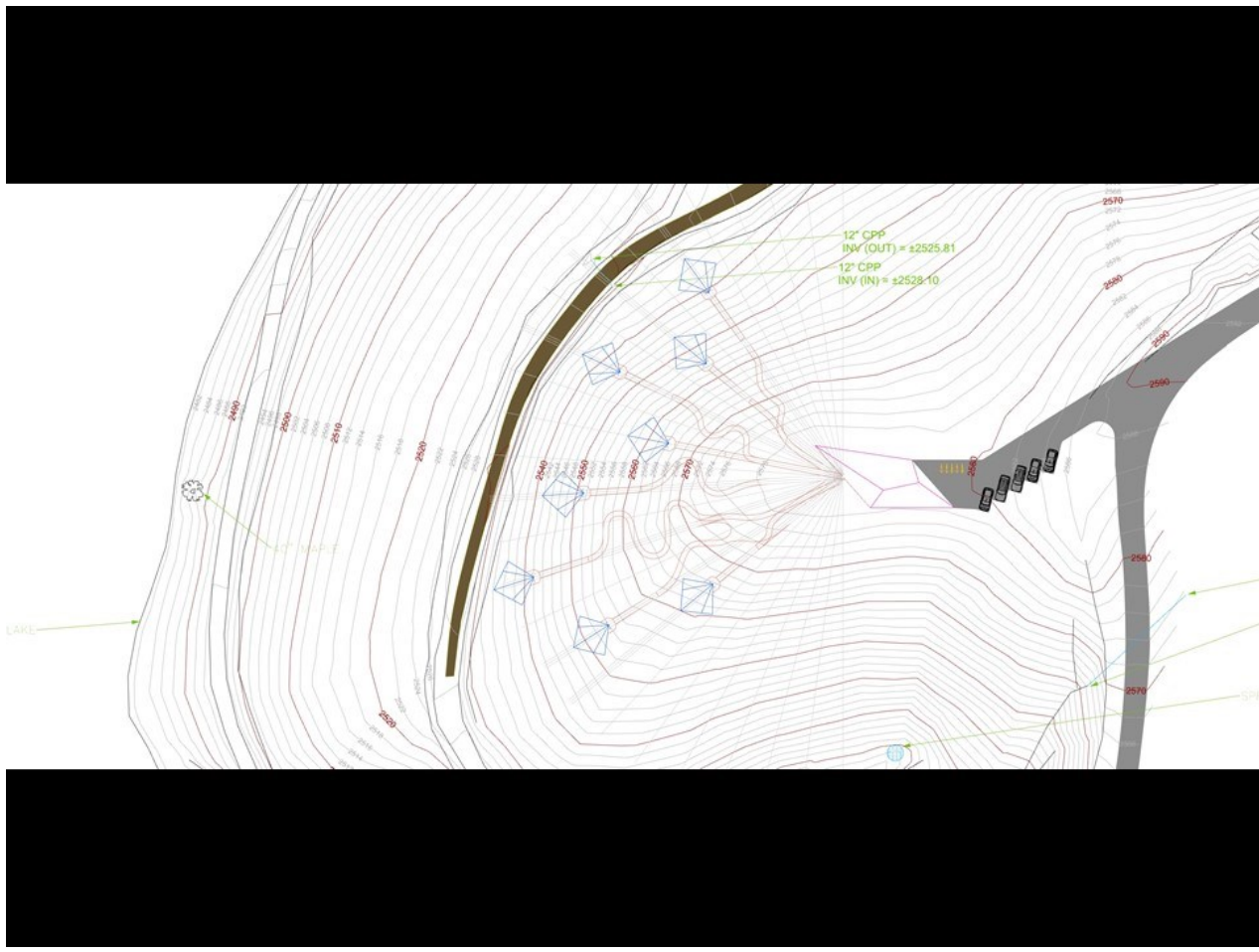


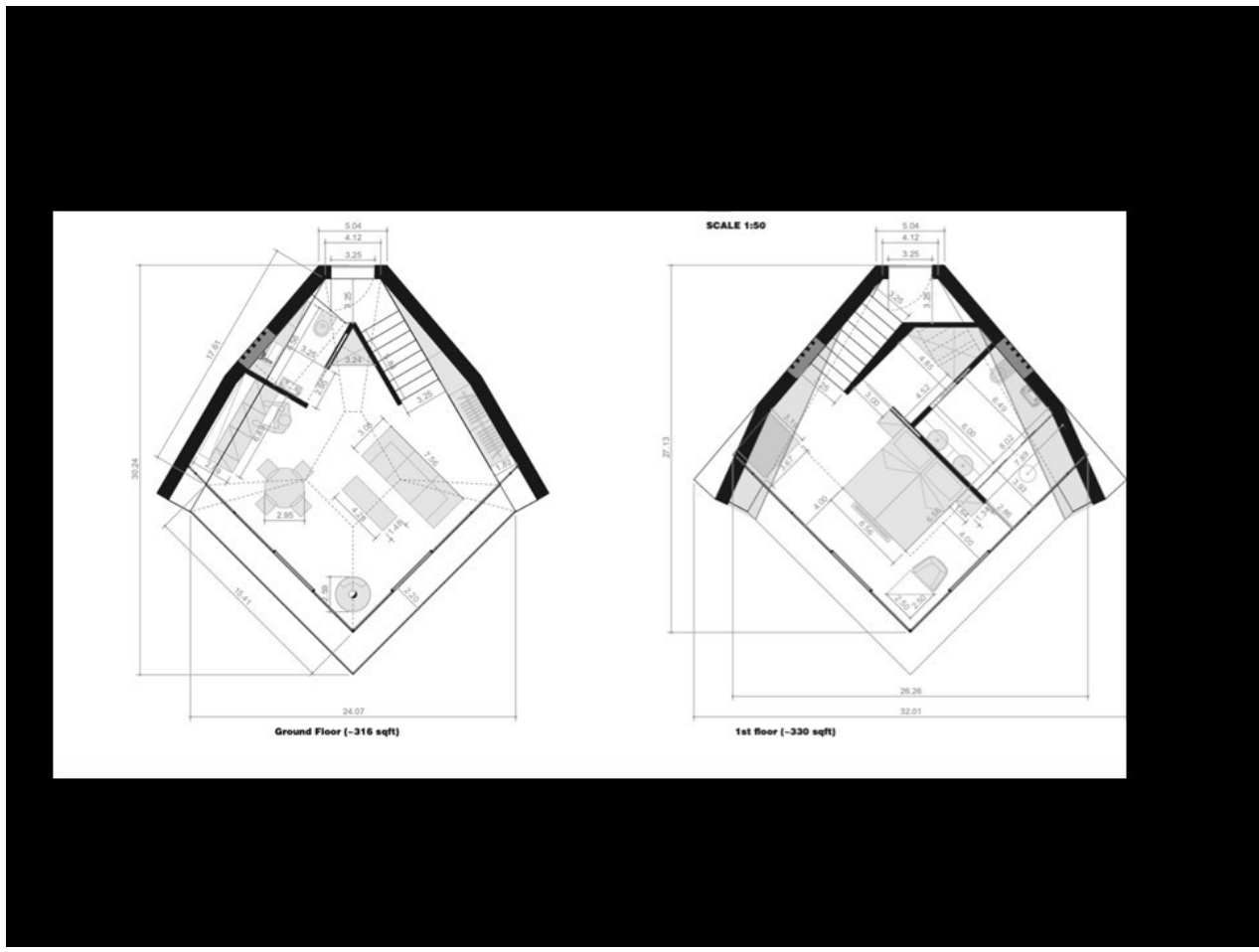




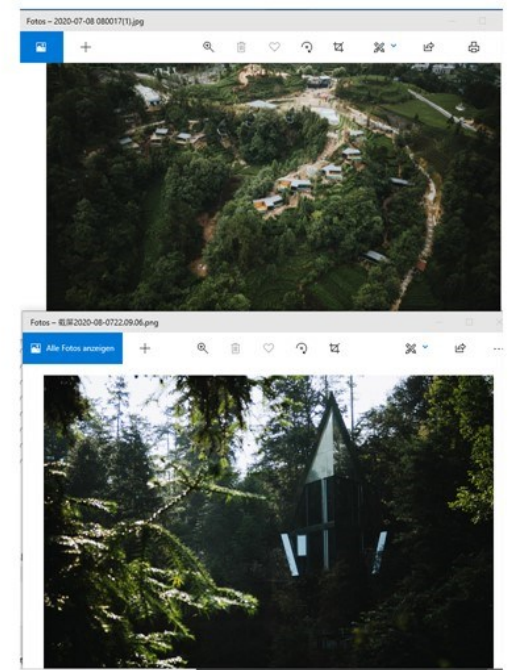
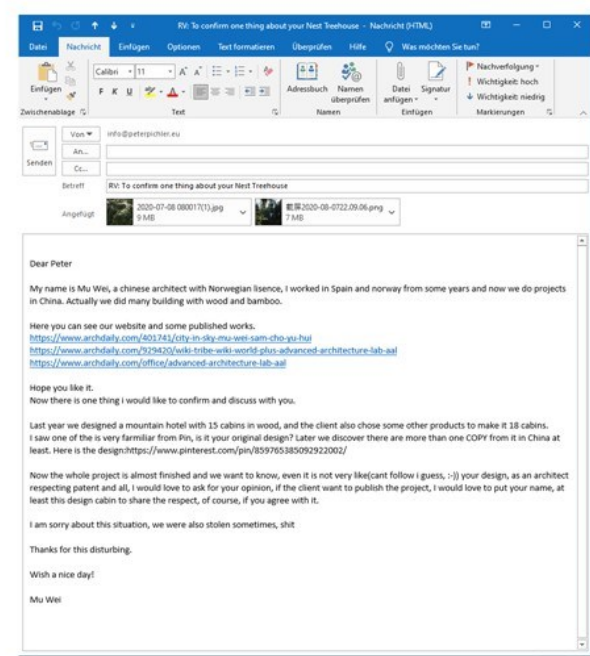


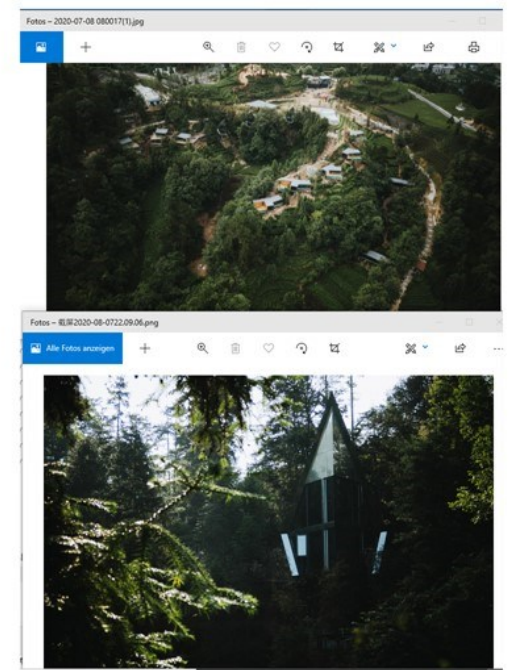
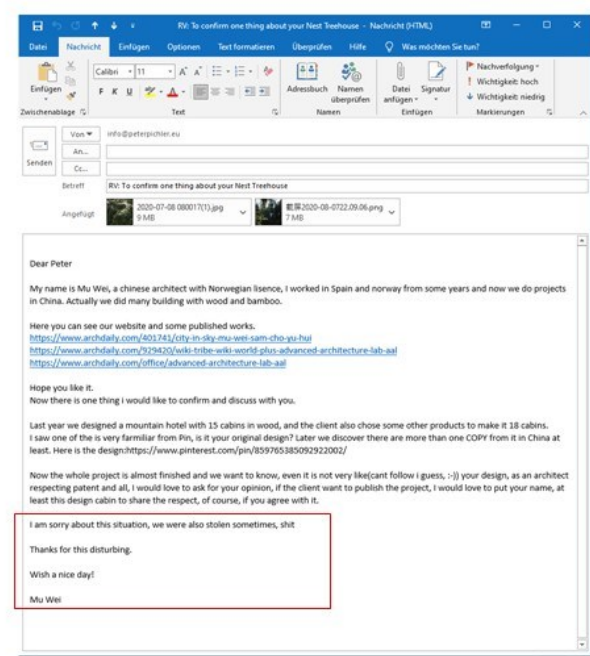




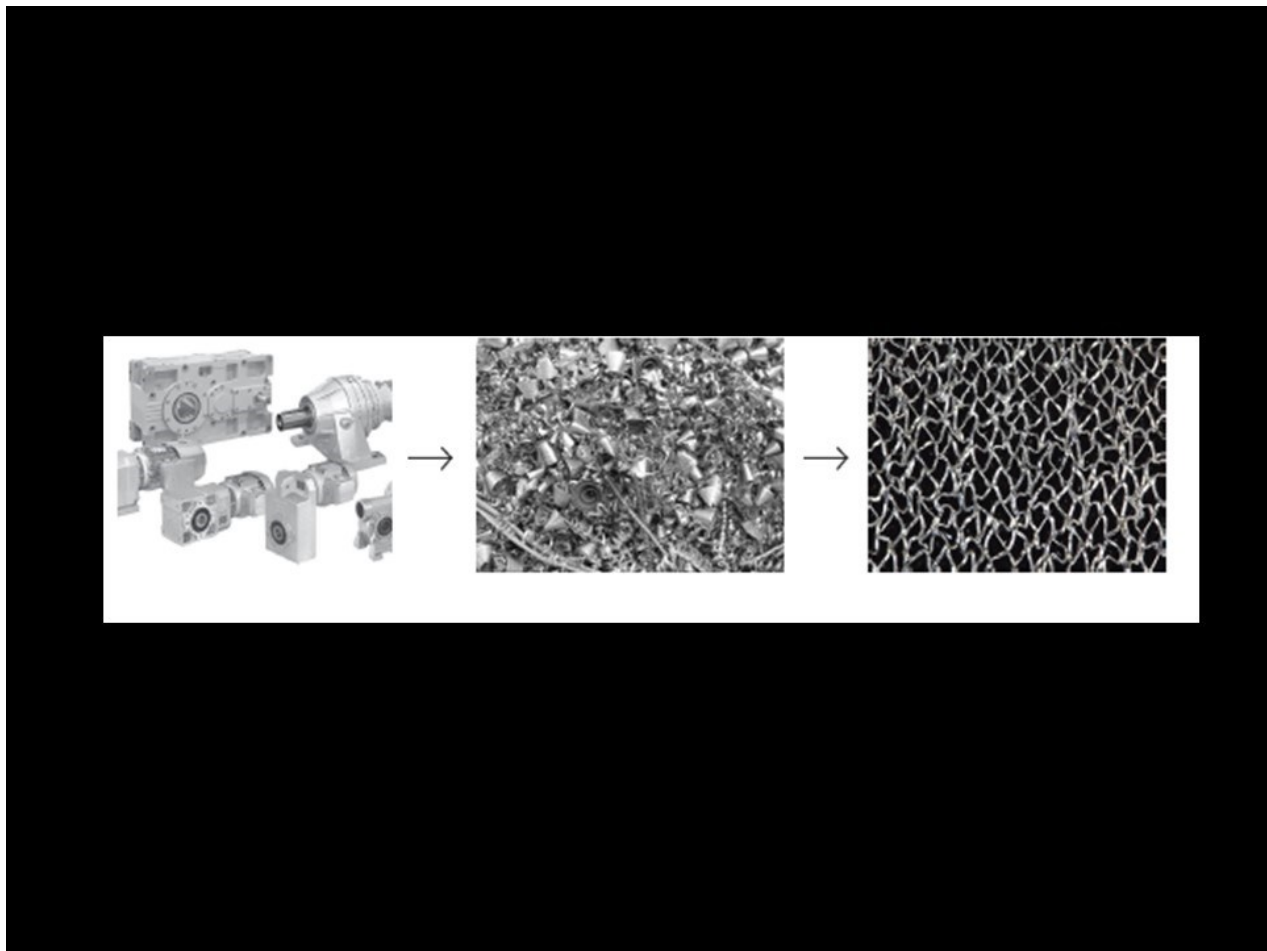












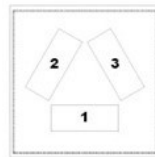




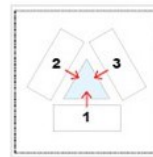
CONCEPT

PROGRAMATIC / FUNCTIONAL

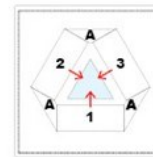
3 units as main program
(1 for client/ 2 for sons)



equal views oriented towards
inside/ heart of building
(water as central element)

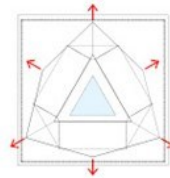


additional functions
spaces/amenities

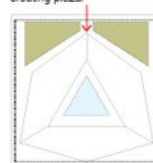


OPTIMIZATION PROGRAM

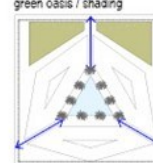
optimizing form
depth spaces/
optimizing area

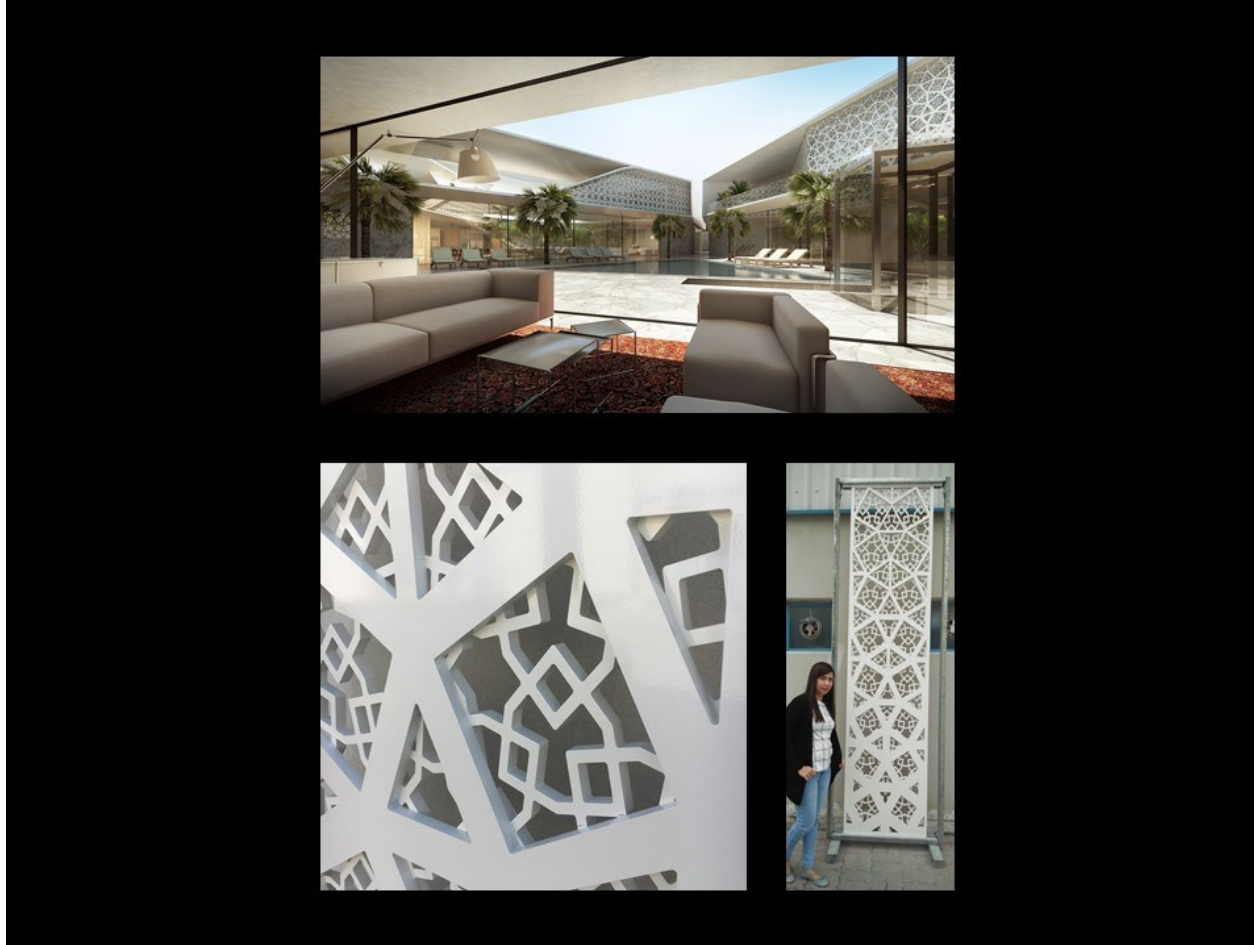


compact form
accentuating
main entrance/
creating plaza



cutting blocks
for airflow within
main atrium
adding green sub-atriums
green oasis / shading





CONFERENCE TRACK TOUR 2021



ANNUAL AND DAILY SUN PATH AND SHADOWS

Summer at 1 PM (Solstice)

Spring at 1 PM (Equinox)

Winter at 1 PM (Solstice)

- Sun will be at its highest point during solstice and equinox.
- Shading of outdoor spaces will be needed during this time to avoid thermal discomfort.

BURKHARDT ENGINEERING

ANNUAL INCIDENT SOLAR RADIATION

W/m²

2388.74+

2388.00

2387.26

2386.52

2385.78

2385.04

2384.30

2383.56

2382.82

2382.08

2381.34

2380.60

2379.86

2379.12

2378.38

2377.64

2376.90

2376.16

2375.42

2374.68

2373.94

2373.20

2372.46

2371.72

2370.98

2370.24

2369.50

2368.76

2368.02

2367.28

2366.54

2365.80

2365.06

2364.32

2363.58

2362.84

2362.10

2361.36

2360.62

2359.88

2359.14

2358.40

2357.66

2356.92

2356.18

2355.44

2354.70

2353.96

2353.22

2352.48

2351.74

2351.00

2350.26

2349.52

2348.78

2348.04

2347.30

2346.56

2345.82

2345.08

2344.34

2343.60

2342.86

2342.12

2341.38

2340.64

2339.90

2339.16

2338.42

2337.68

2336.94

2336.20

2335.46

2334.72

2333.98

2333.24

2332.50

2331.76

2331.02

2330.28

2329.54

2328.80

2328.06

2327.32

2326.58

2325.84

2325.10

2324.36

2323.62

2322.88

2322.14

2321.40

2320.66

2319.92

2319.18

2318.44

2317.70

2316.96

2316.22

2315.48

2314.74

2314.00

2313.26

2312.52

2311.78

2311.04

2310.30

2309.56

2308.82

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2302.90

2302.16

2301.42

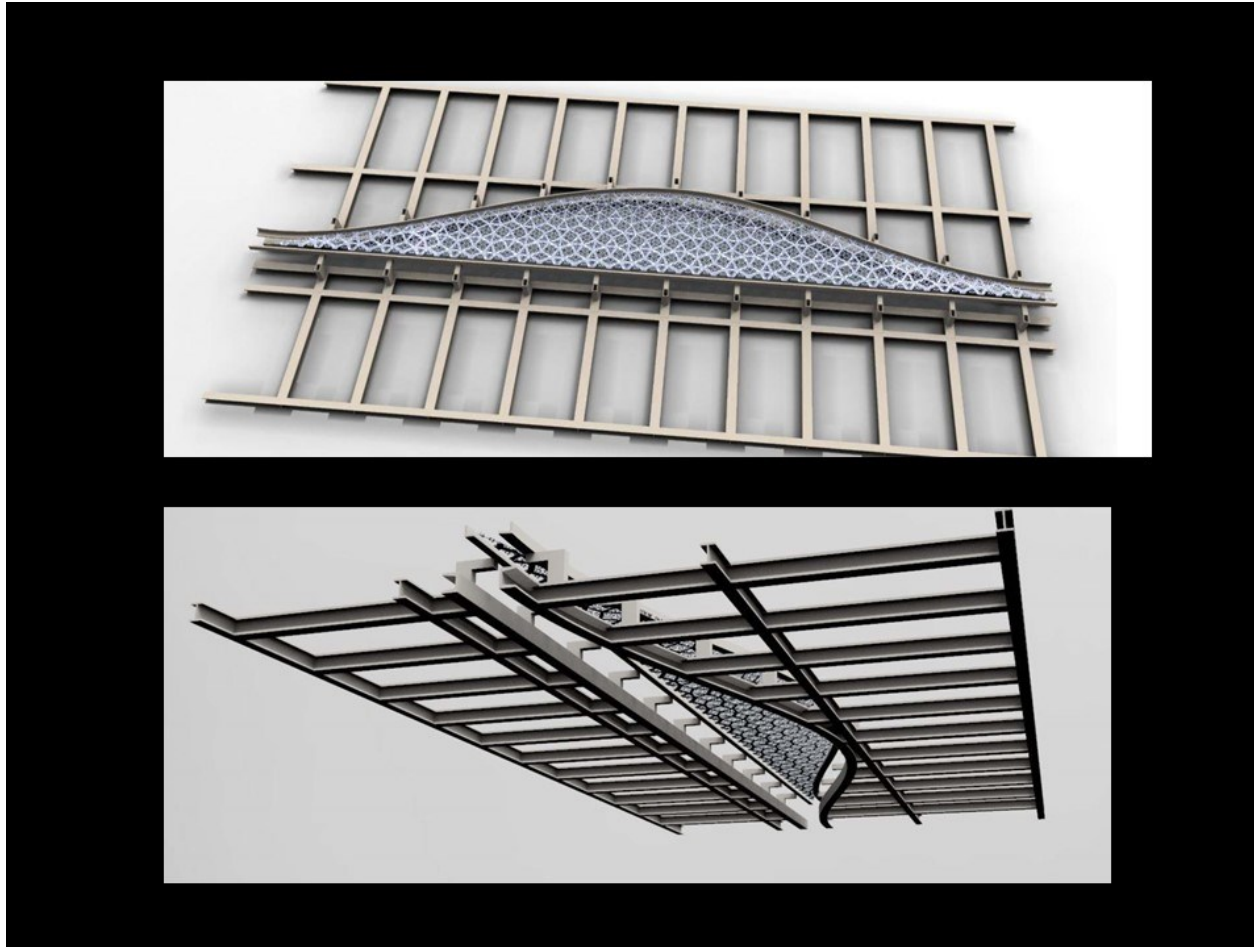
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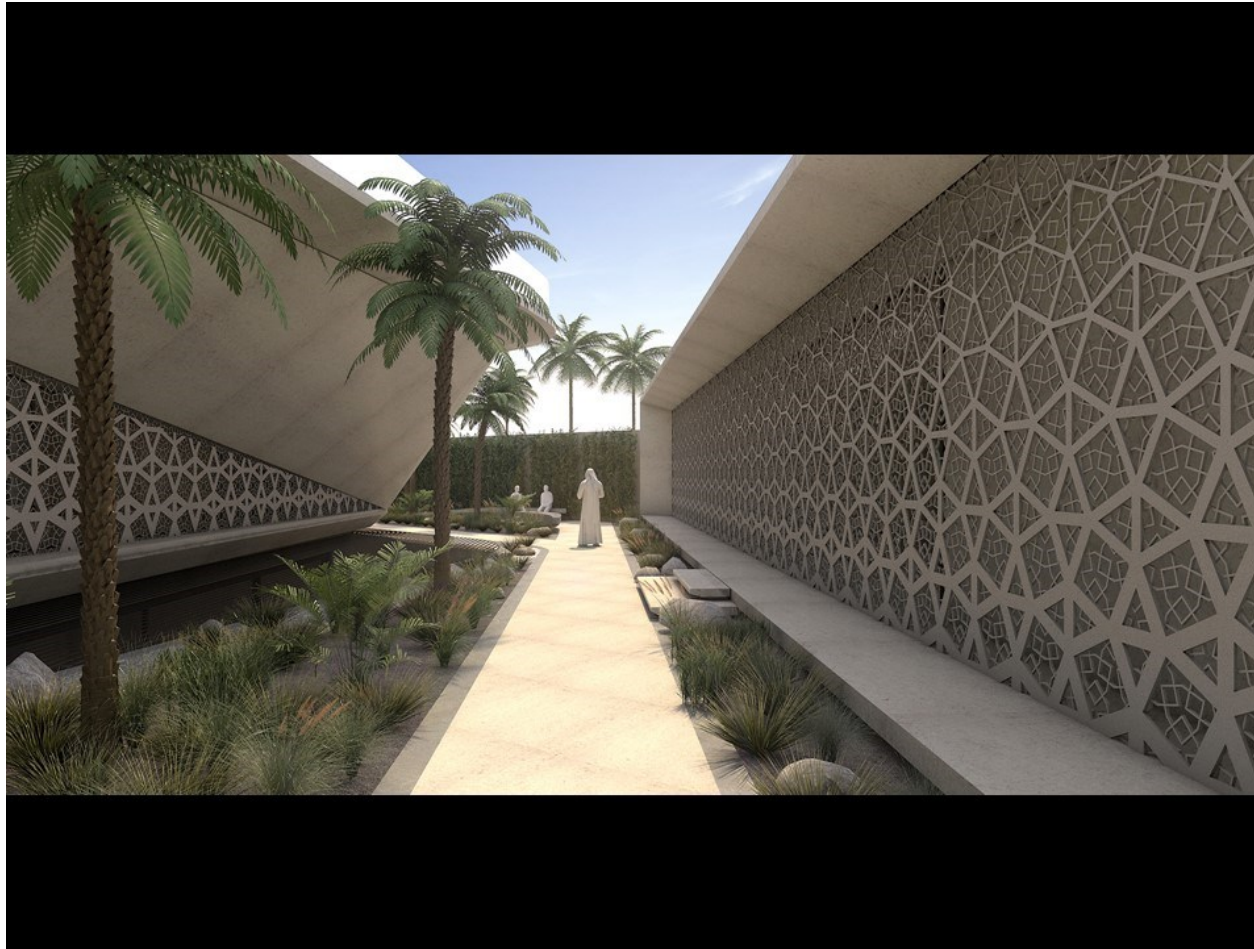
2300.00

BUILDING ENVELOPE - EXTERNAL SHADING DESIGN PRINCIPLES SHADING STUDY FOR SOUTH EAST FACADE

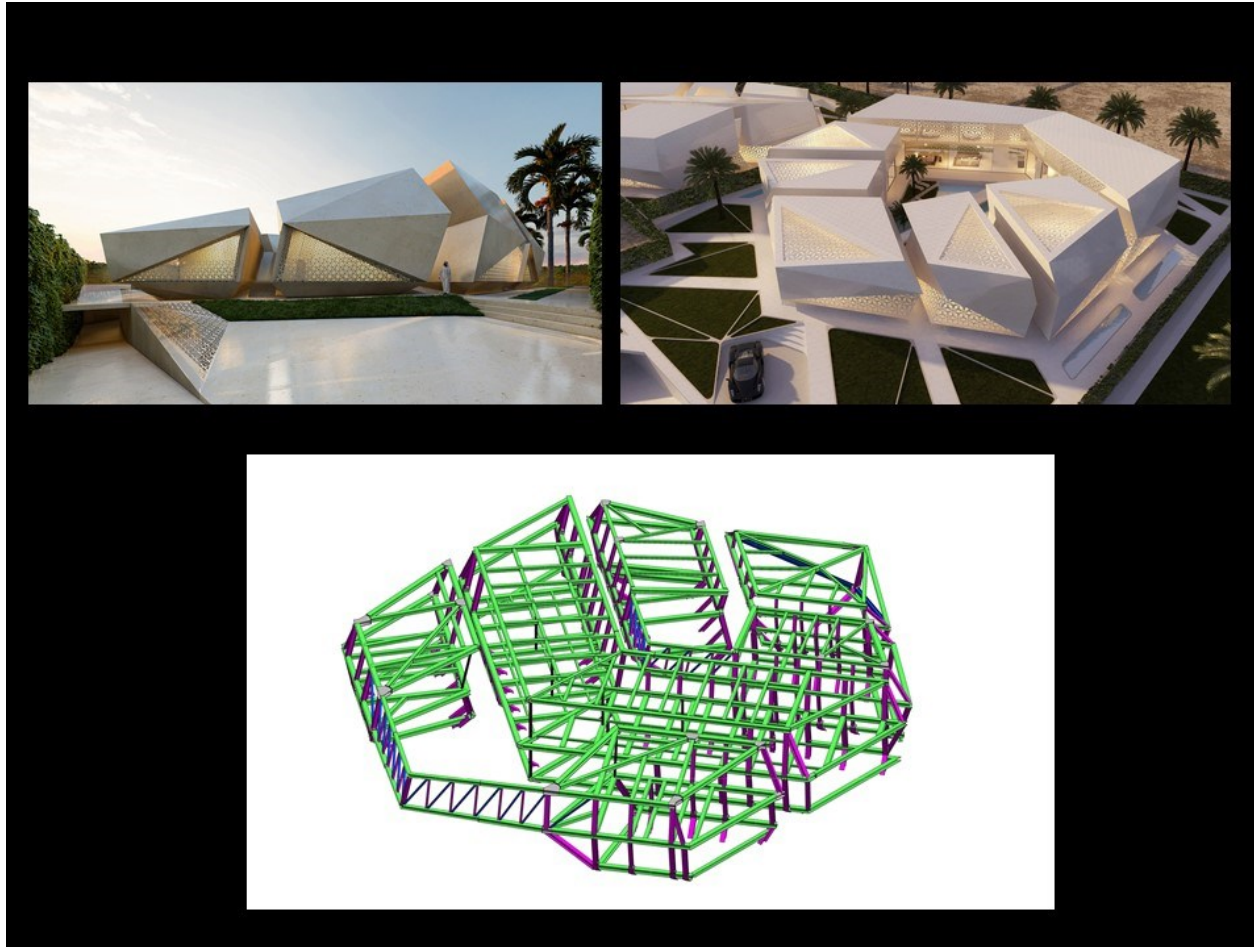
Villa Mashrabiya Screen on SE Facade

- ASHRAE Baseline solar gain per façade area: 213 kWh/m²; ASHRAE g-value: 0.25
- It is predicted that the Mashrabiya would achieve approximately 50% reduction from ASHRAE.

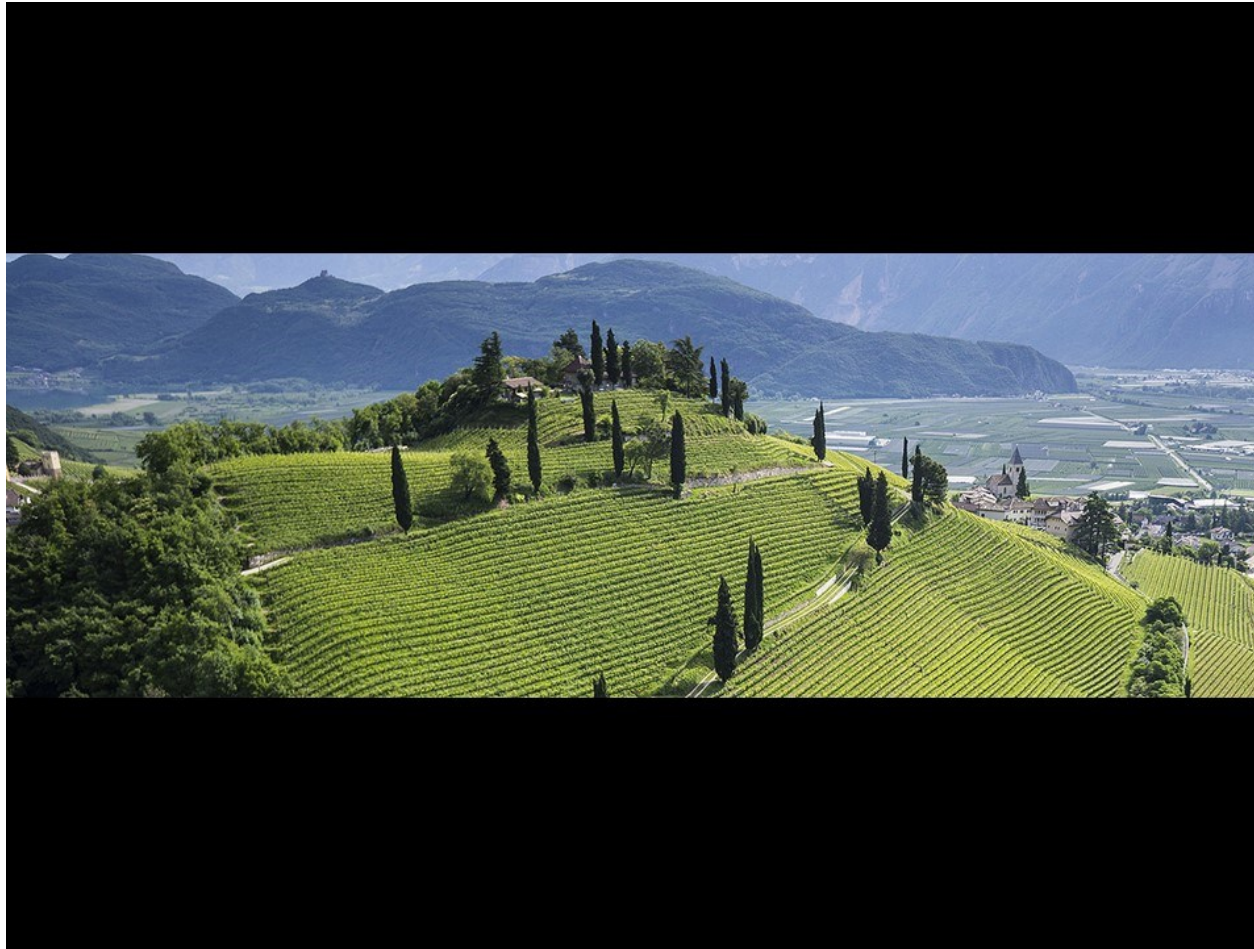






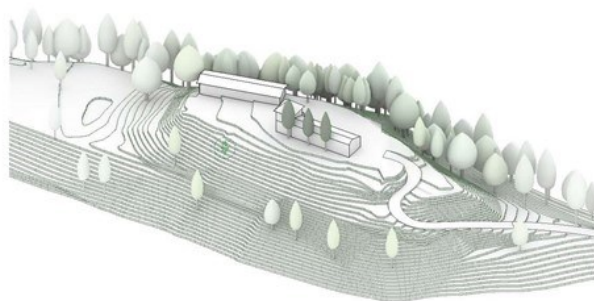


landscape

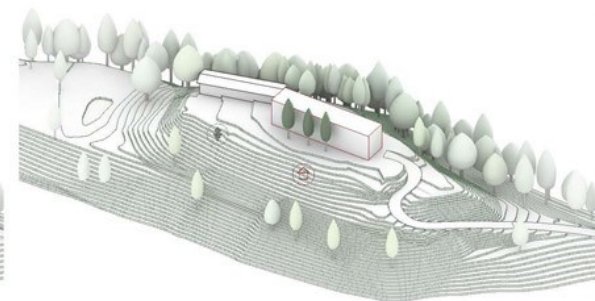




ANALISI VOLUME



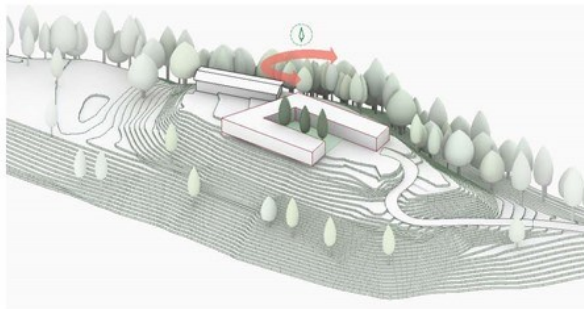
EDIFICI ESISTENTI



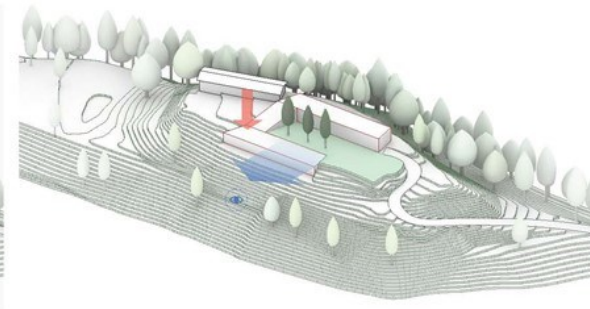
VOLUME SOLIDO / NUOVO VOLUME

PETER PICHLER ARCHITECTURE info@peterpichler.eu www.peterpichler.eu

STUDI VOLUMETRICI / CORTILE



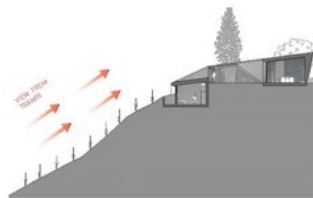
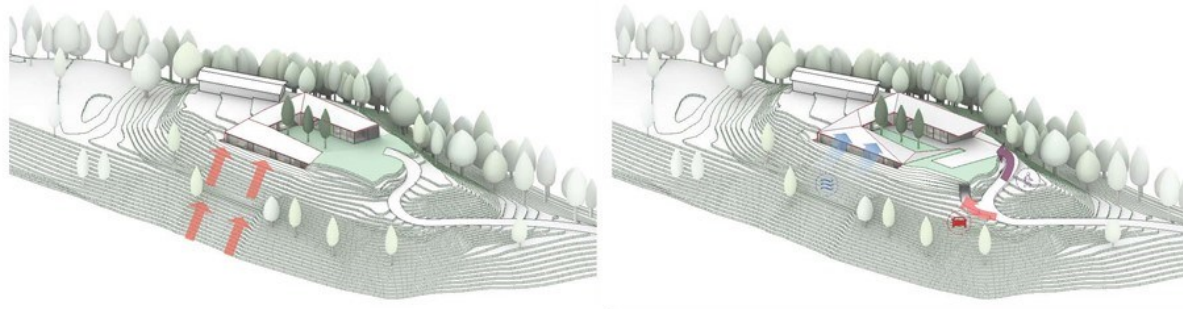
VOLUMETRIA CHE AVVOLGE IL CORTILE



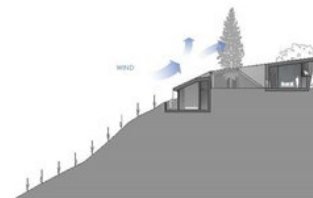
INTEGRAZIONE AMBIENTALE / OPTIMIZZAZIONE DELLA VISTA

PETER PICHLER ARCHITECTURE info@peterpichler.eu www.peterpichler.eu

INTEGRAZIONE AMBIENTALE / PROTEZIONE DAL VENTO

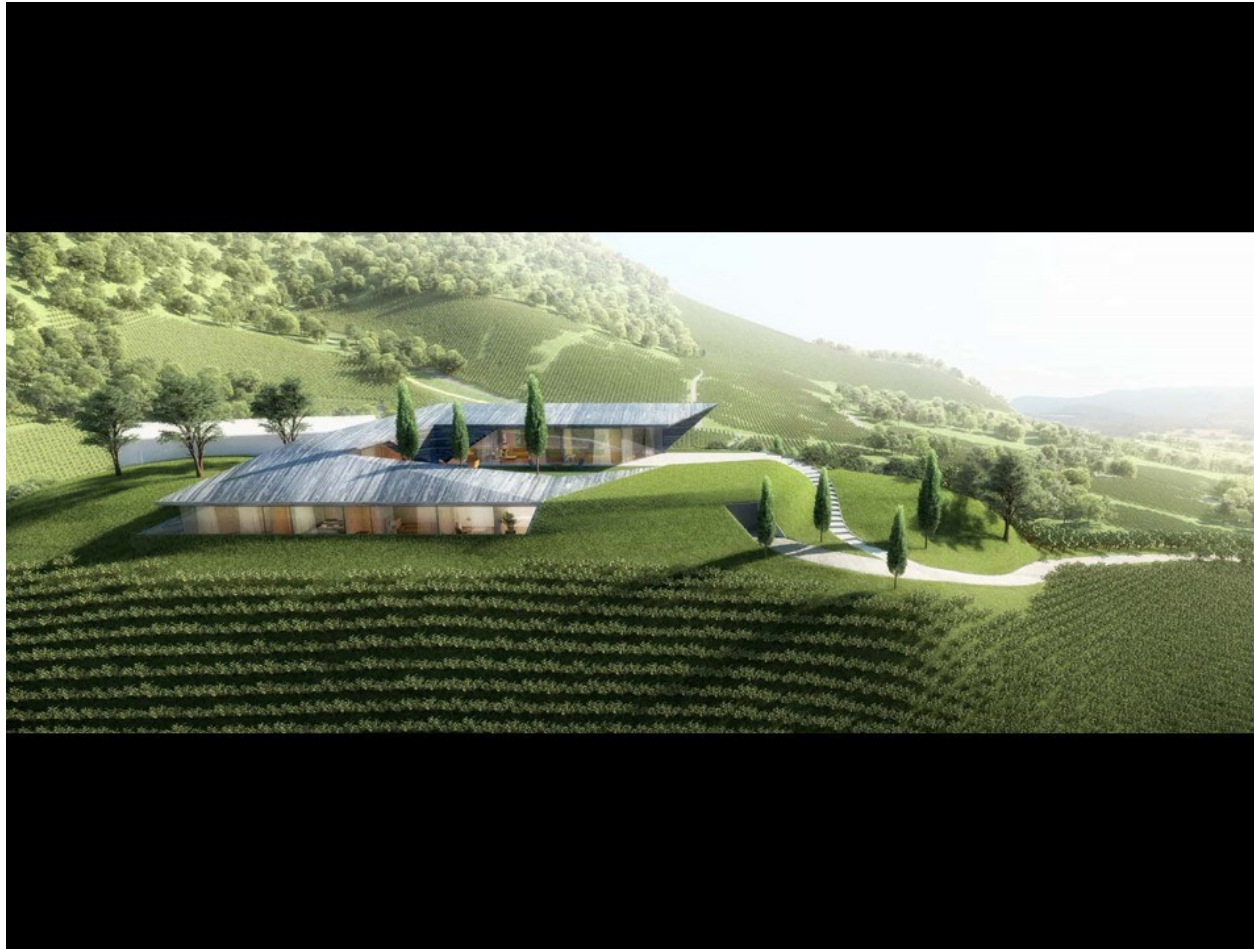


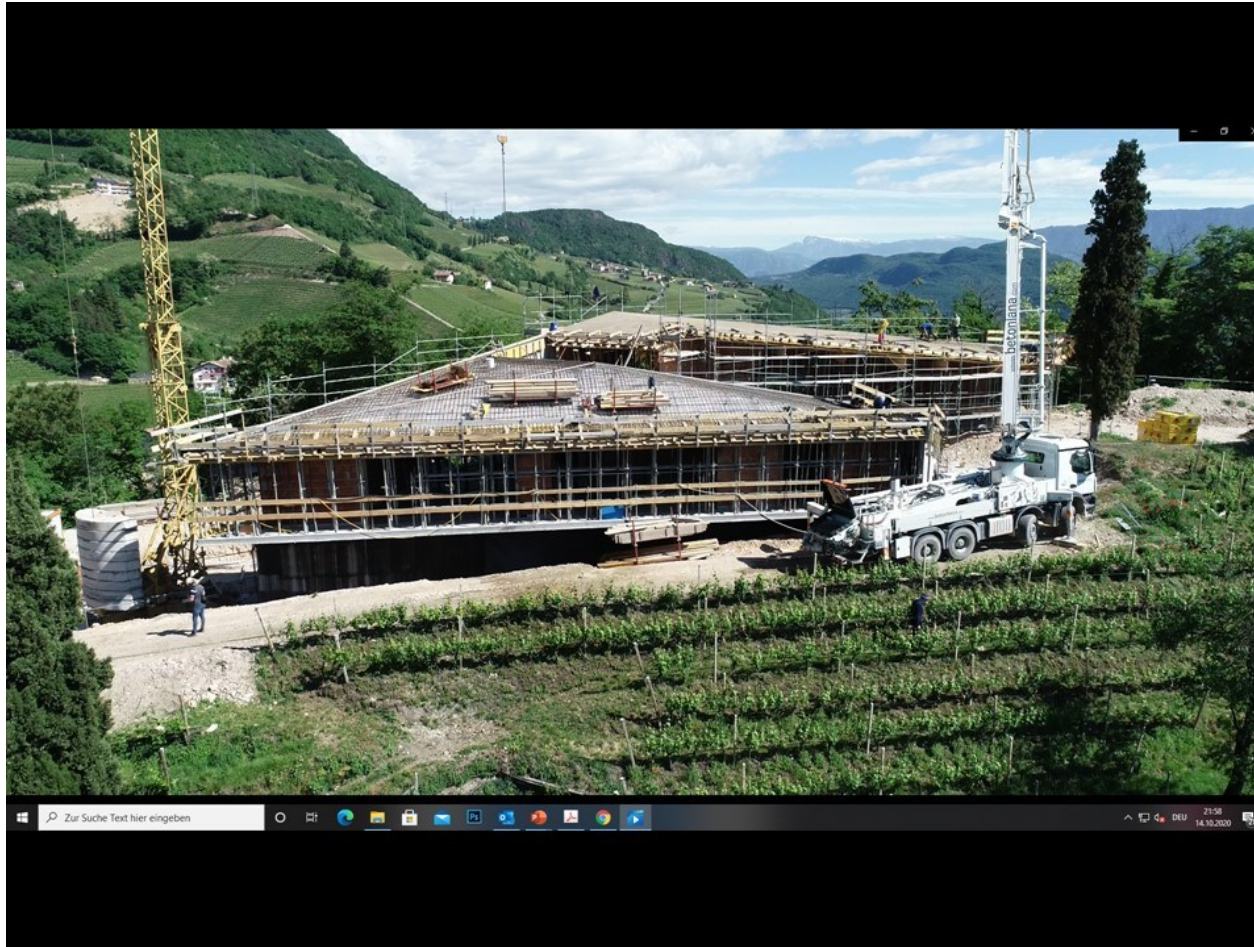
PRIVACY / ISOLAMENTO VISIVO



GEOMETRIA TETTO IN ACCORDO CON FLUSSI AERODINAMICI

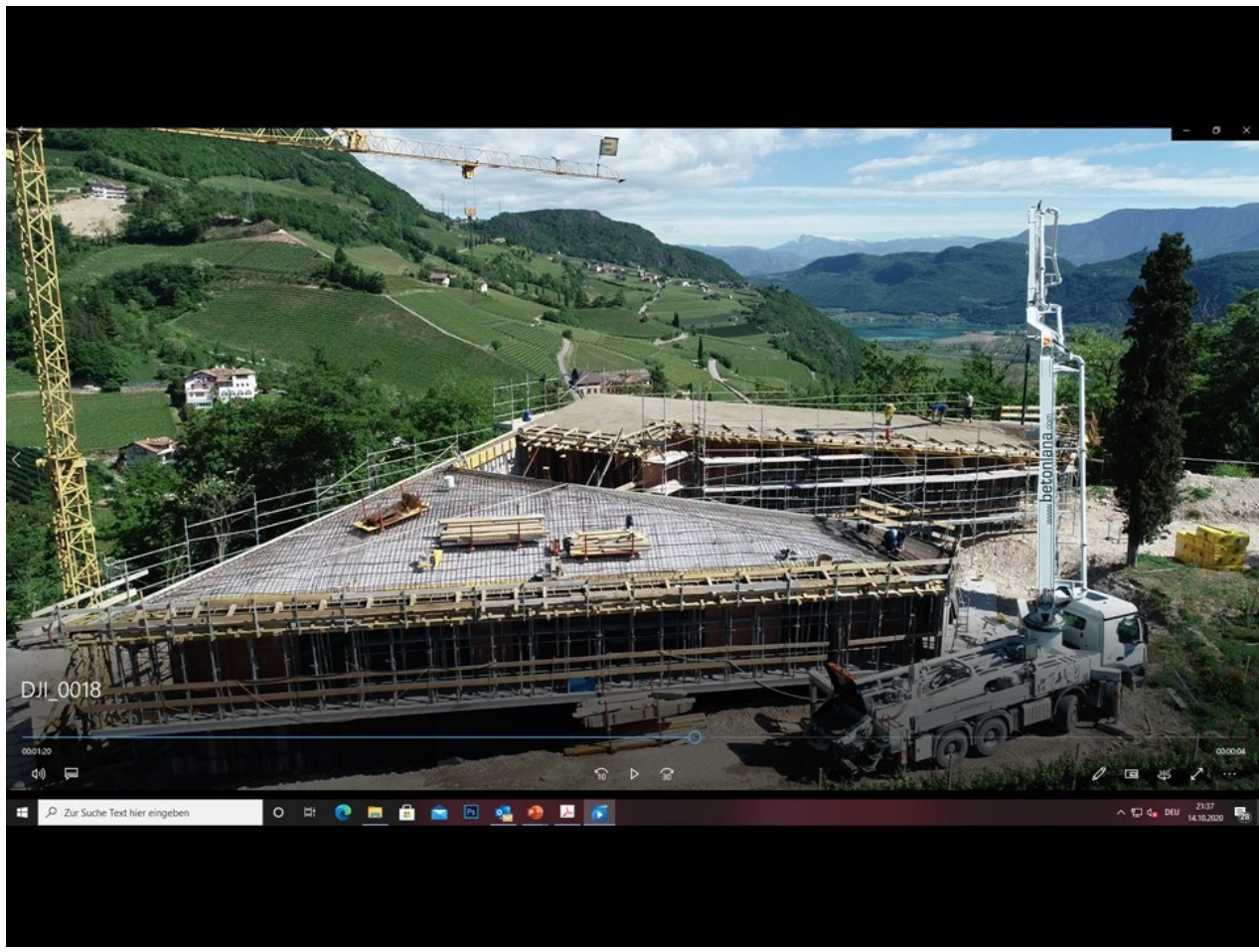
PETER PICHLER ARCHITECTURE info@peterpichler.eu www.peterpichler.eu

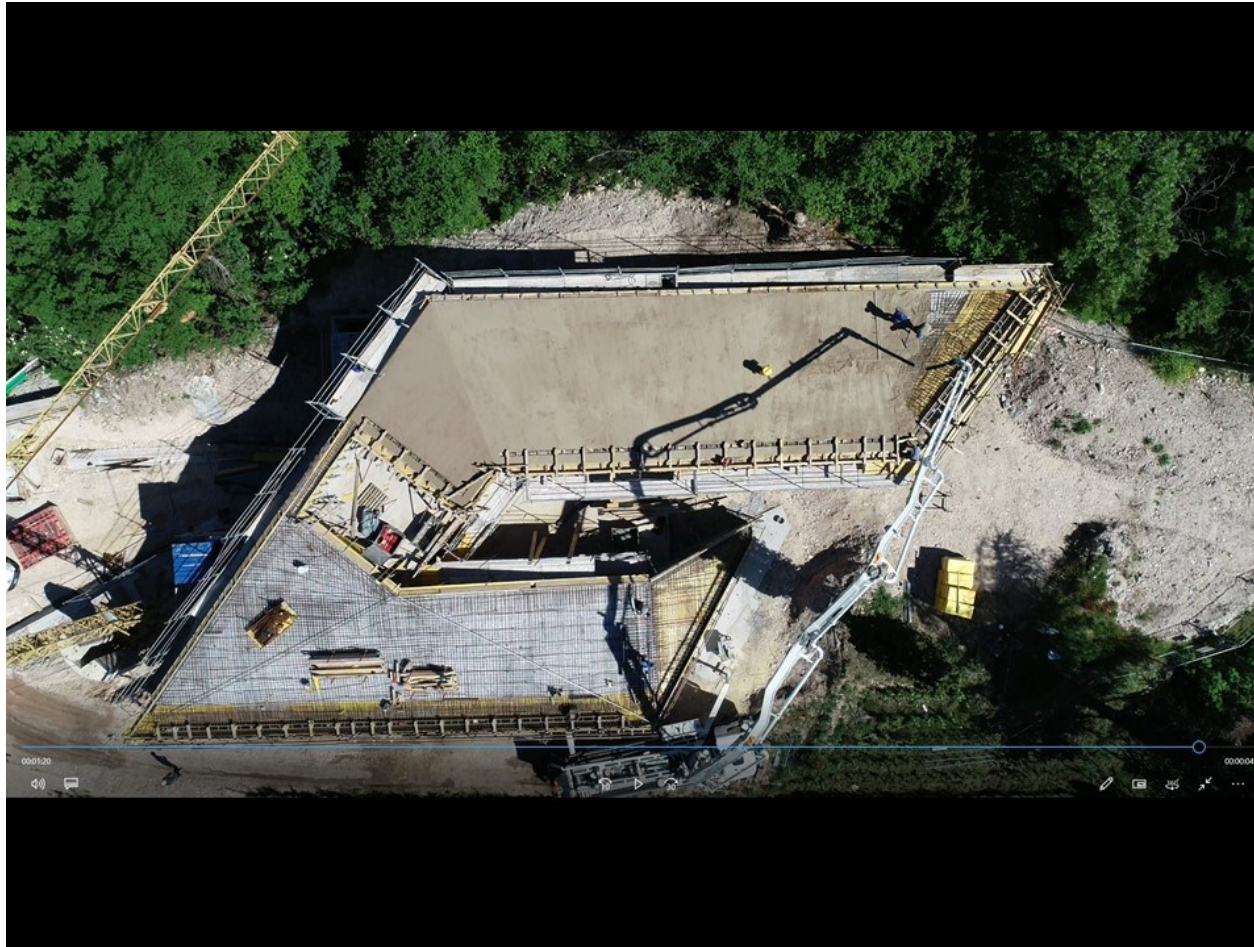














TRADITION
or
REVOLUTION
?

TRADITION
or
REVOLUTION
EVOLUTION

**PETER
PICHLER
ARCHITECTURE**

Organizzato da:



In collaborazione con:



Promosso da:



Partner tecnico:



Con il patrocinio di:



Con il supporto di:



Media partner:



Partner tecnico finanziario:



Premium partner:

