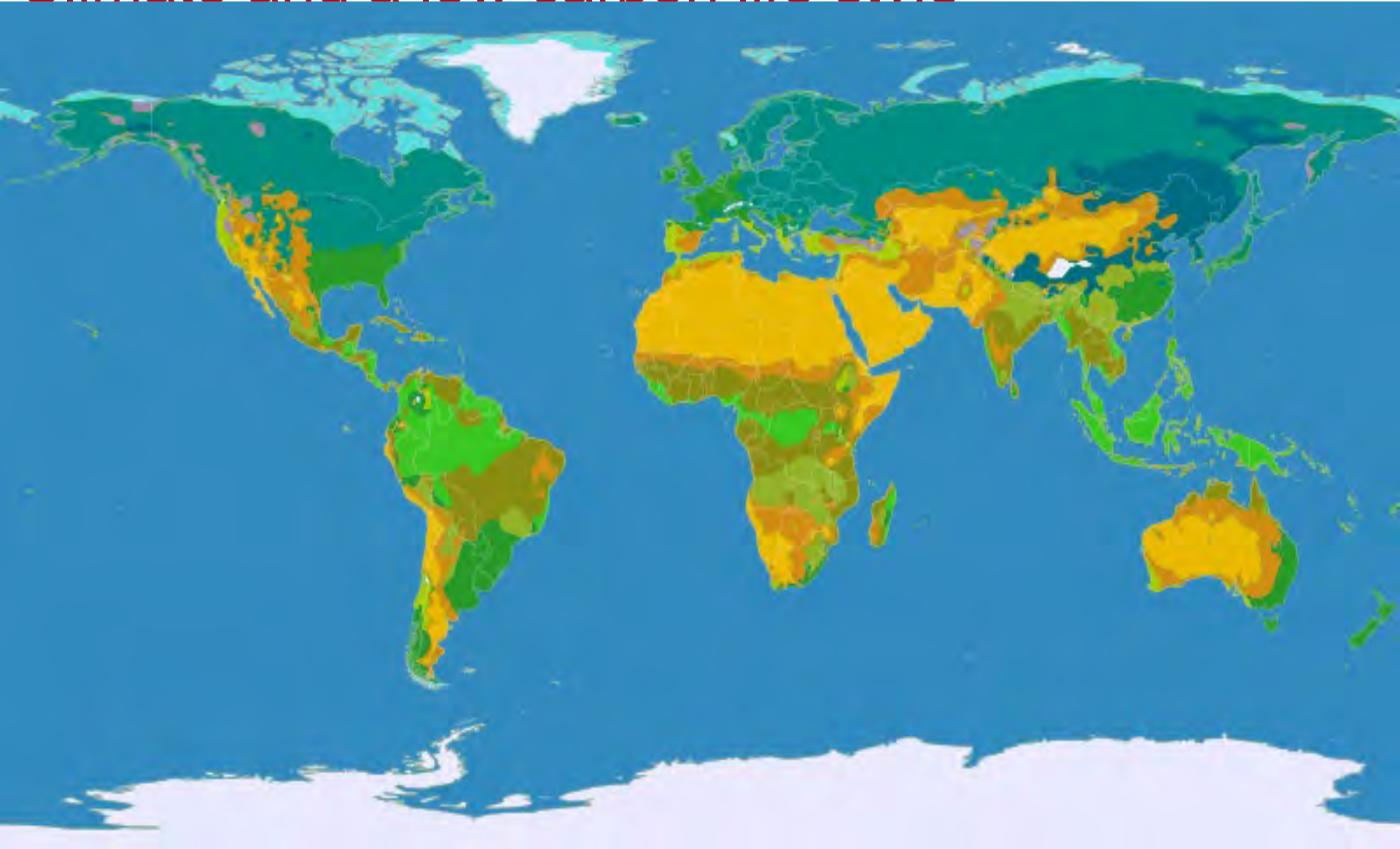


# BERLIN BEARLIN

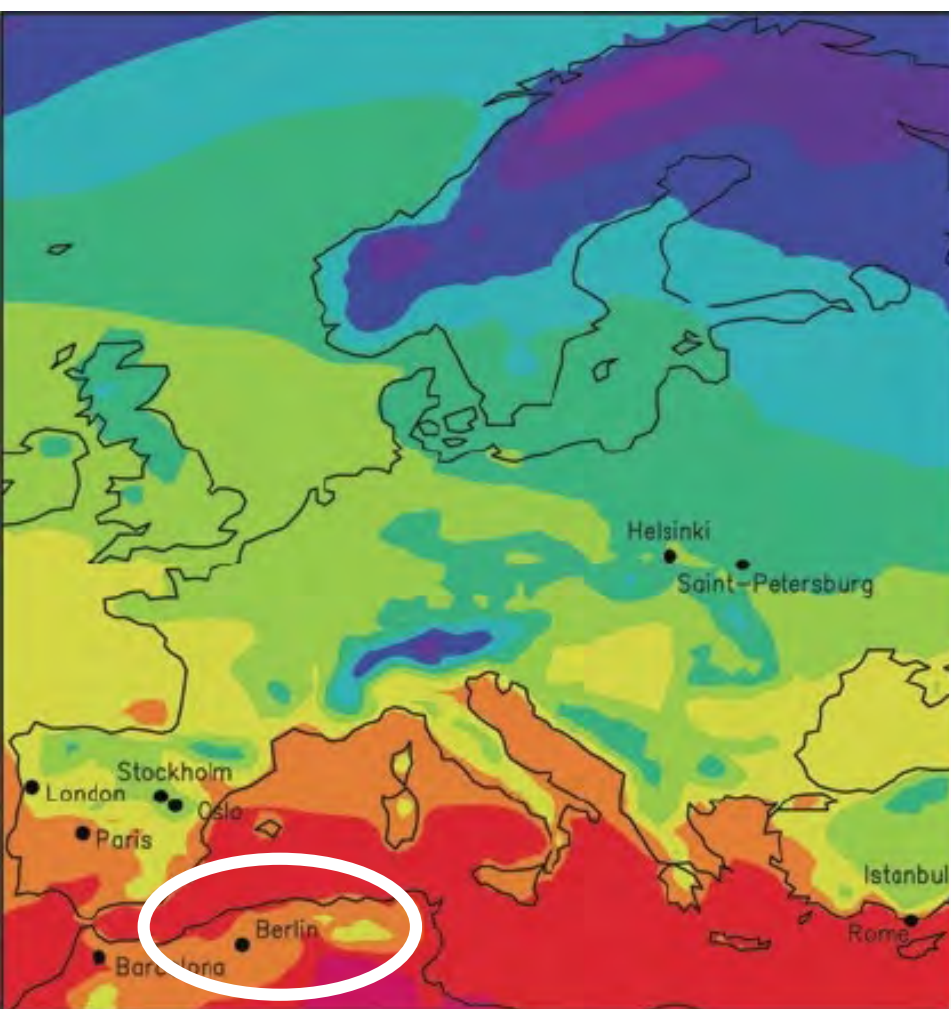
- BERLIN SUMMER  
ACADEMY  
Design for a low  
carbon life style  
**JUNE 4/5/6 - JULY  
3/4/5 2021**  
ARCH 576 DE  
4 CREDITS
- CONTACT:
- ULRIKE PASSE
- [upasse@iastate.edu](mailto:upasse@iastate.edu)



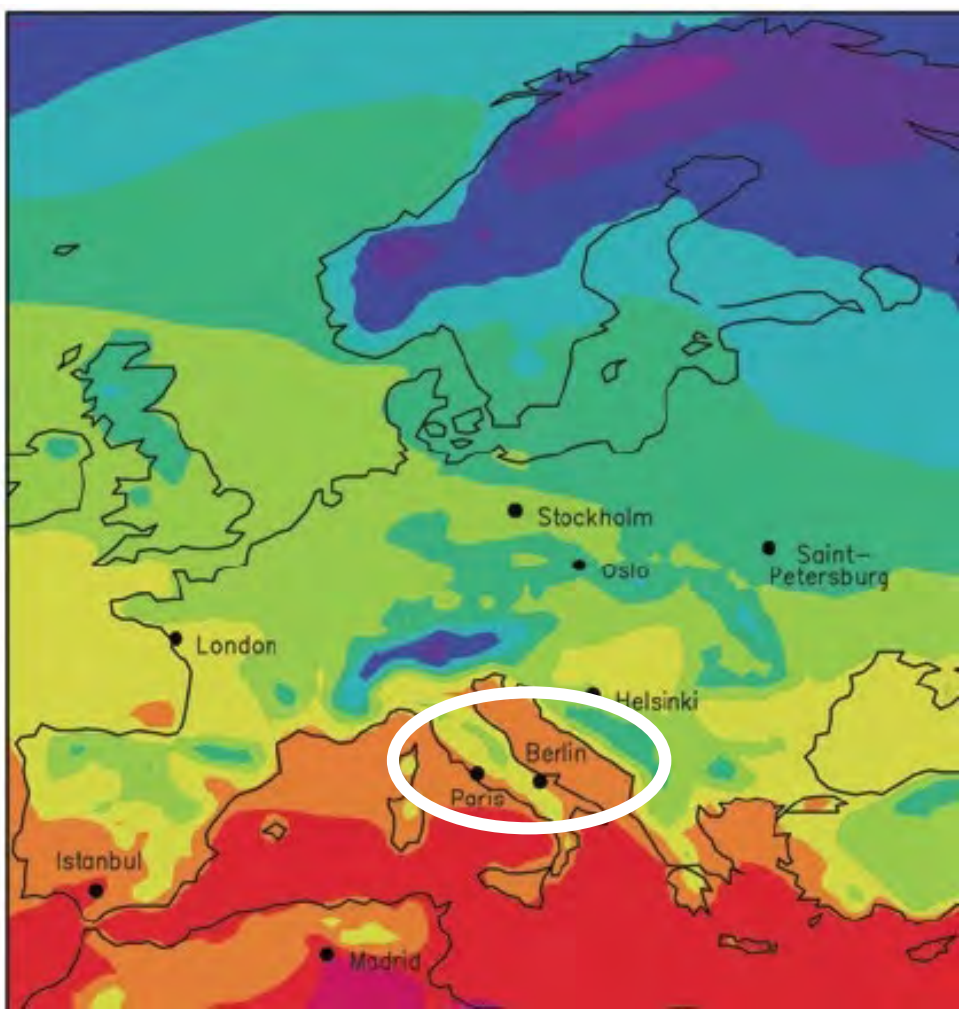
# Climate and a low carbon life style



Relocation of European climates at the end of the 21st century, Climates were characterized using three indicators: **Aridity Index, Heating and Cooling Degree Days**



Hadley Center model, **HadRM3H**, Climat Emission scenario SRES/A2



Météo-France Center model, **ARPEGE-Climat**, Emission scenario SRES/A2

# Our collaborators and partner

- City College New York, NY
  - Christian Volkmann
- GUTECH OMAN
  - [Alexander Kader](#)
- AEDES ANCB CAMPUS
- <http://www.ancb.de>



# Location: AEDES Architecture Network Campus Berlin (ANCB)







THE  
PROLOGUE  
TO  
INTERNATIONALISM

WHAT  
DOES  
INTERNATIONALISM  
LOOK LIKE  
TODAY?

WHERE DO THE  
UNDEAD OF PROLETARIAN  
INTERNATIONALISM  
LIE?

WHAT  
DOES POLITICS  
DOES ARCHITECTURE  
PRODUCE  
TODAY?



# Germany





# Berlin





# BERLIN....history





# Understand planning processes





# Sustainable Design - UBA





# The first green high rise





# Innovative construction



# OMA for real.....Dutch Embassy





# Hamburg

- Largest commercial port in Germany
- Largest urban renewal area (HafenCity)
- Port revitalization
- International building exhibition IBA





# New Urban Design - Hafencity





# Hamburg Elbphilharmonie









# Fieldtrips: Visit Bauhaus





June 18



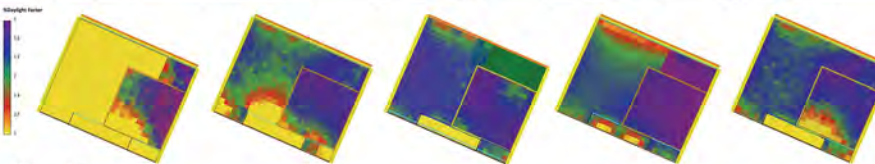
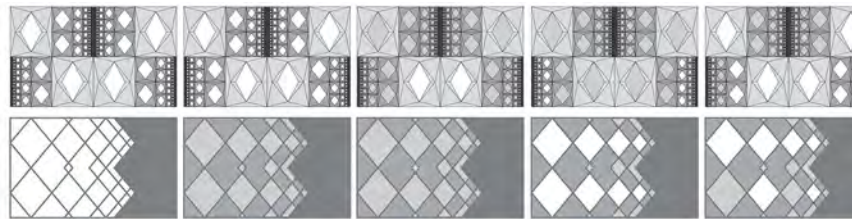


# Dessau

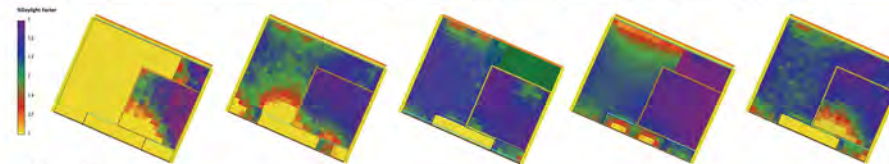
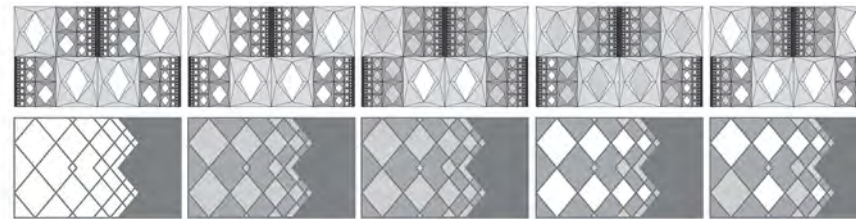


# 2020: Program: BrandWand Kletterer

- 2020: Wall Climber / Innovative Housing
- Enhanced environmental performance
- Parametric design tools for solar, energy light, air



Time lapse



Time lapse





# SITE: BOUNDARIES ? BORDER?







More....



A dense thicket of green foliage, possibly a forest or garden, with a small white bird perched on a branch in the center-left. The text "June 14" is overlaid in red in the center-right.

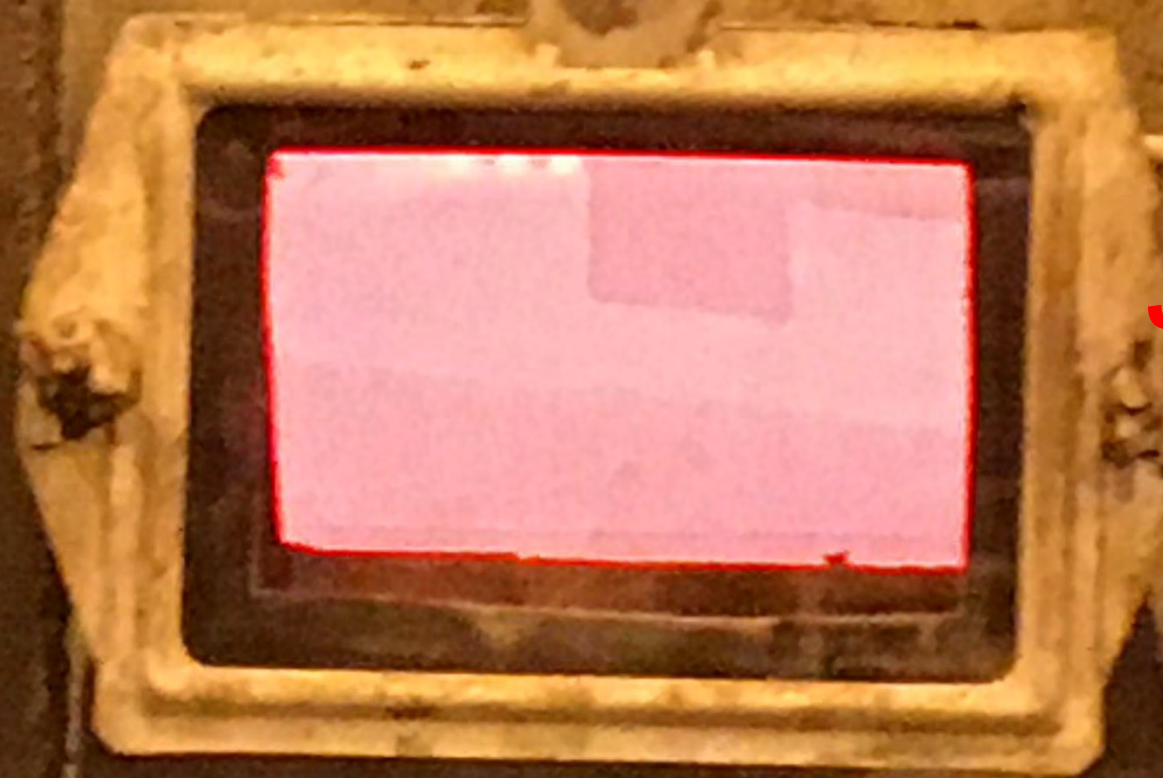
June 14



June 14







June 14



June 14

1.3.2011

1.2.2011

01.01.2019

01.05.2010

01.12.2018



June 18





**MIDSUMMER PARTY**

**LONG DAYS / SHORT NIGHTS**











June 21







June 23

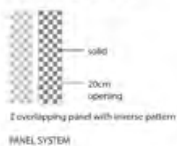




# Environmental Performance SOFTWARE LEARNING

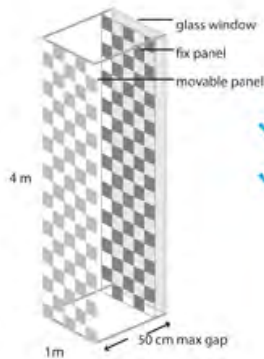
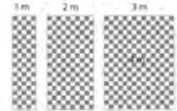
## DIFFUSER PANEL

### PANEL PATTERN

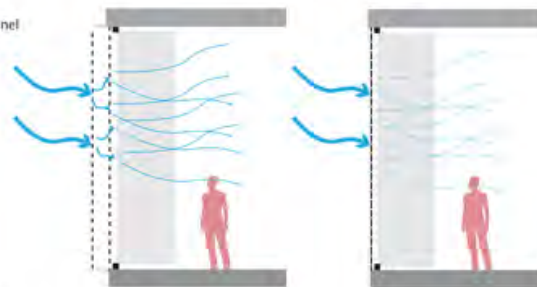


### PANEL SYSTEM

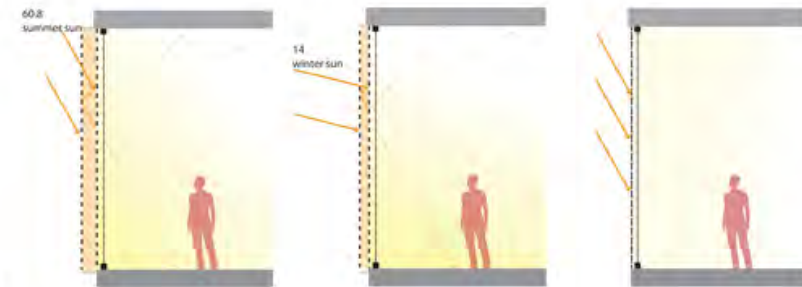
### PANEL SIZES



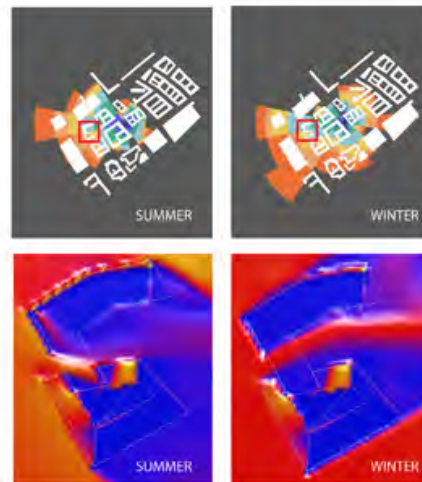
### DIFFUSE WIND



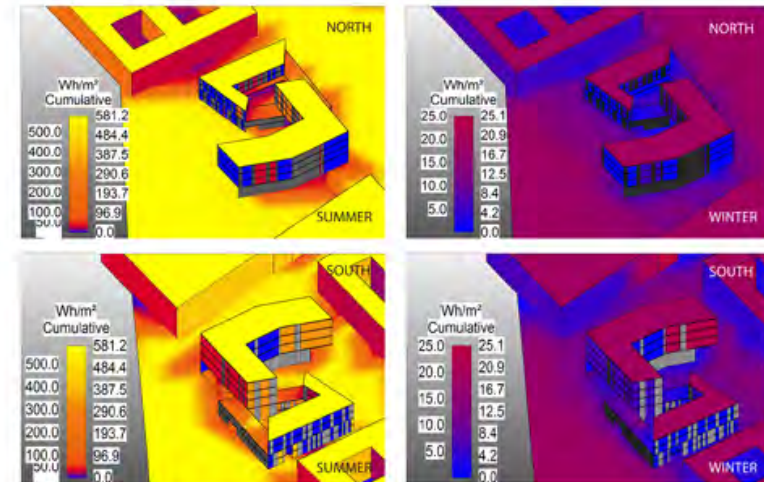
### DIFUSE LIGHT



### WIND TUNNEL

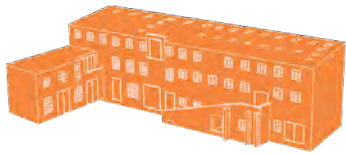


### SOLAR RADIATION

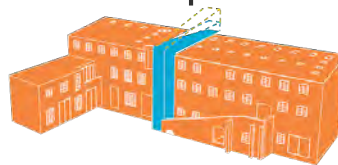




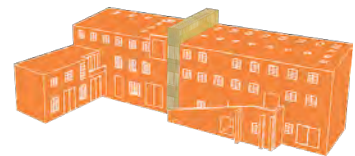
Original  
Building



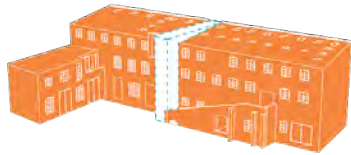
Roof Height



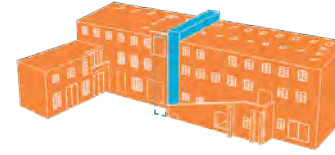
Louver Design



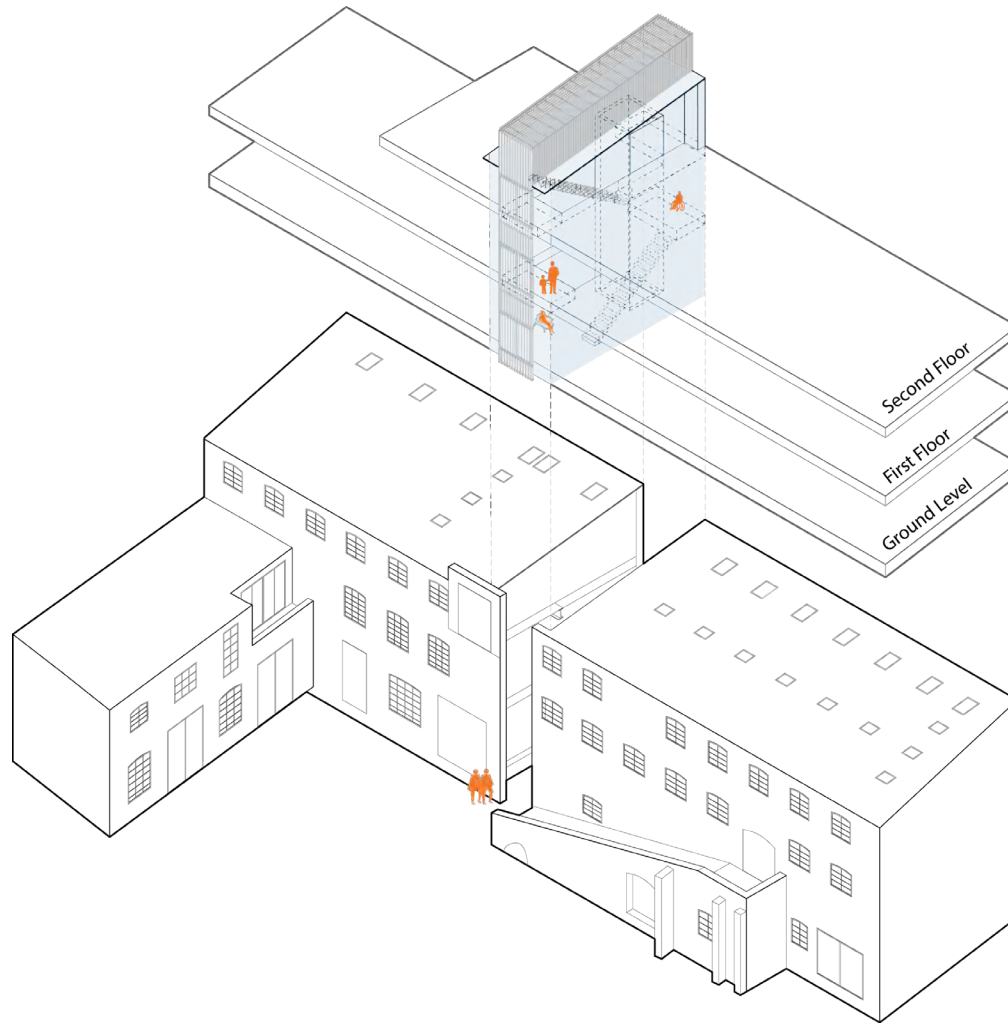
Glass  
intervention  
(location)



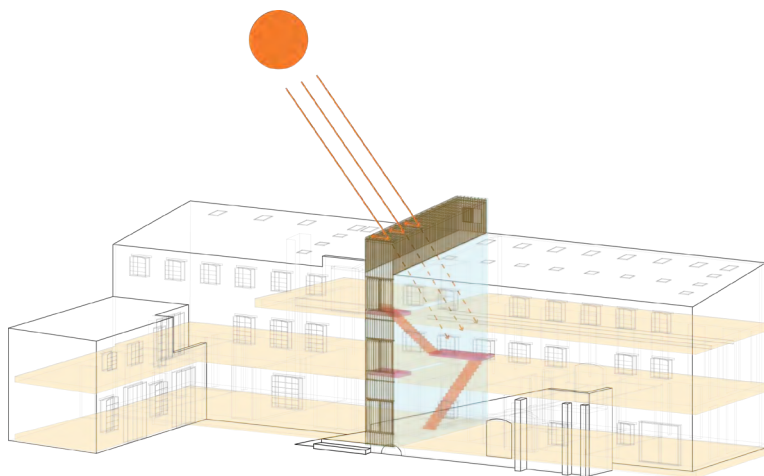
Depth of South  
Facade



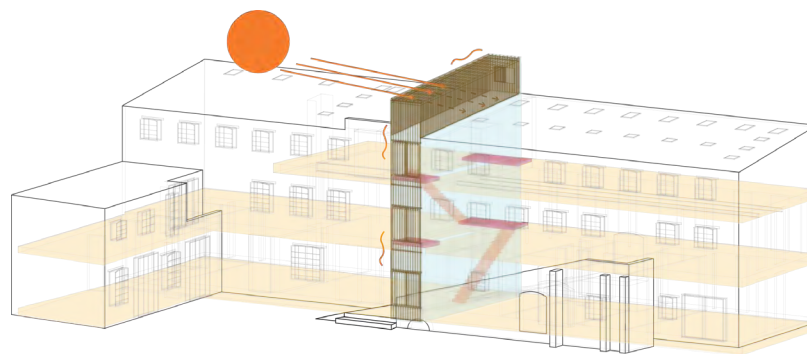






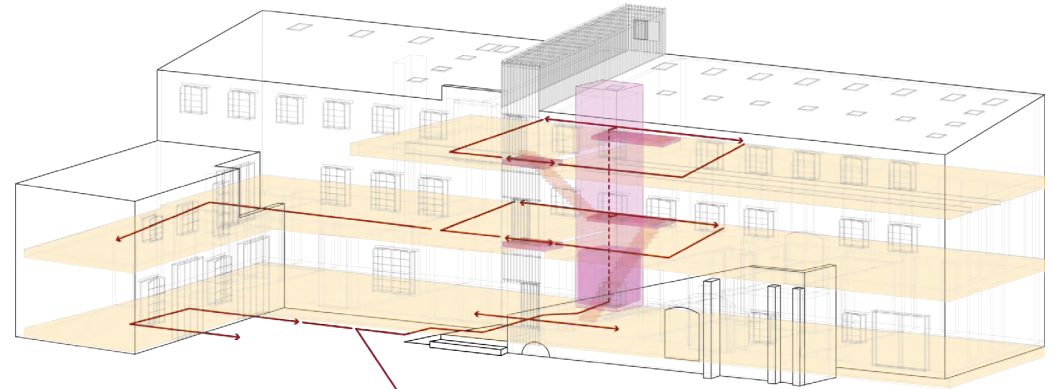
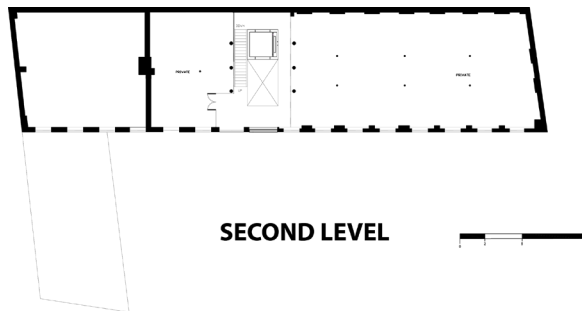
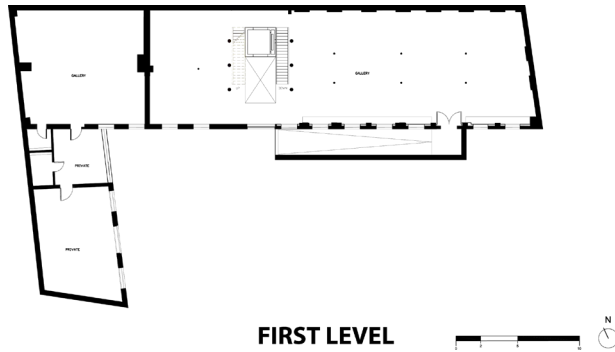
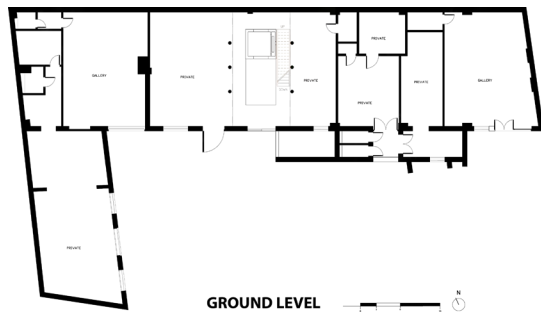


June 21st  
(60 degrees)

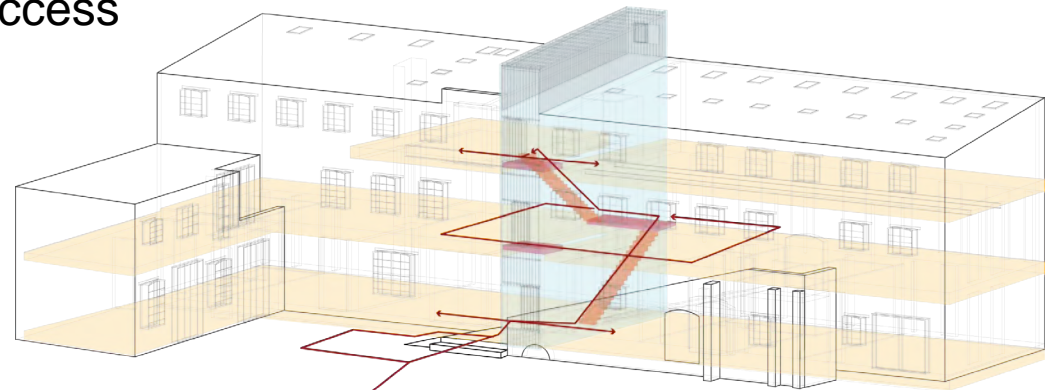


Dec 21st  
(10 degrees)



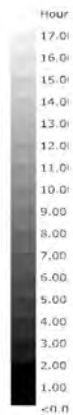


Circulation: Elevator Access

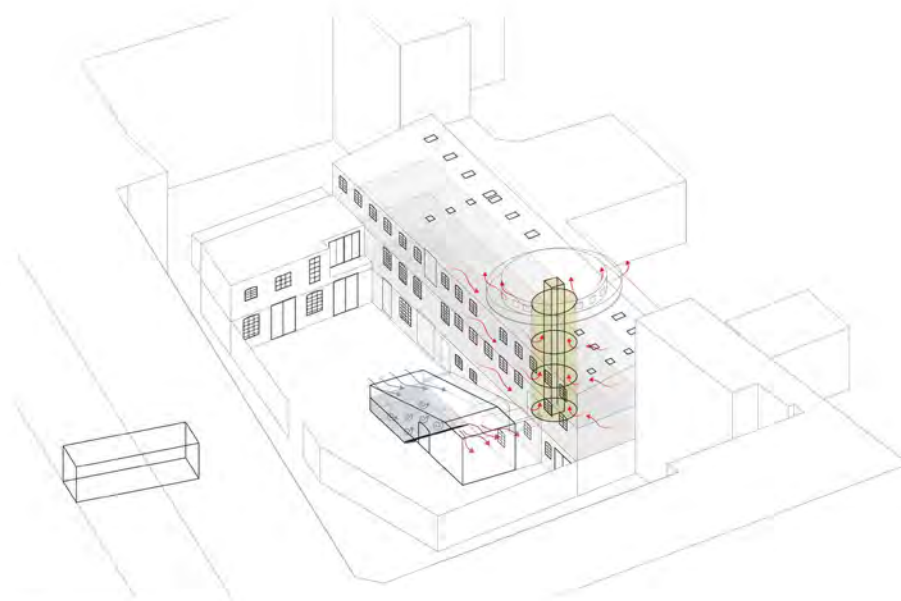


Circulation: Stair Access

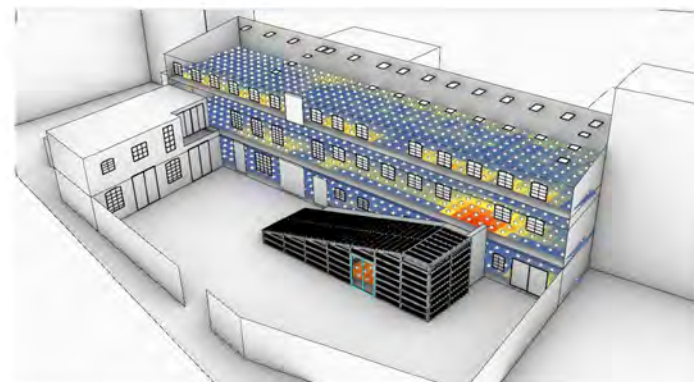




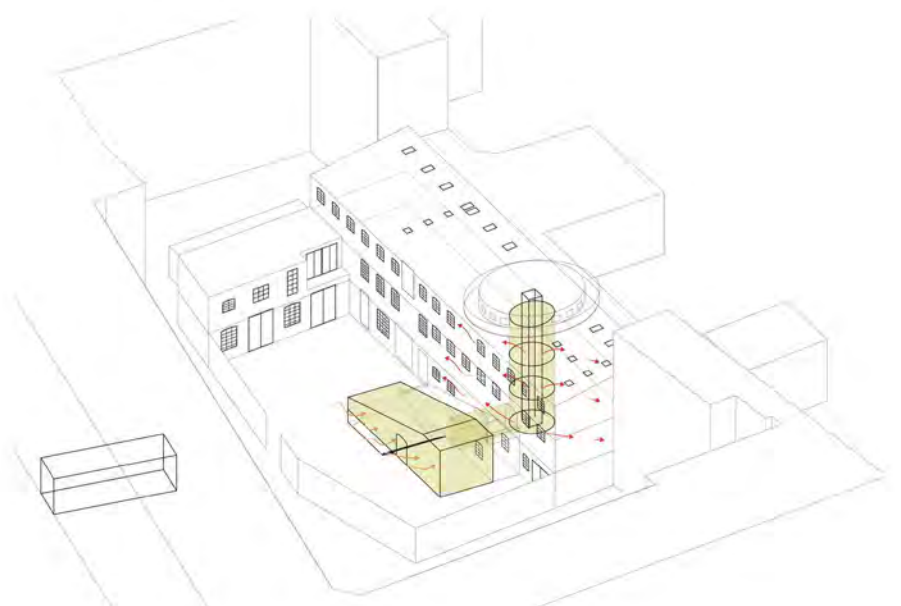
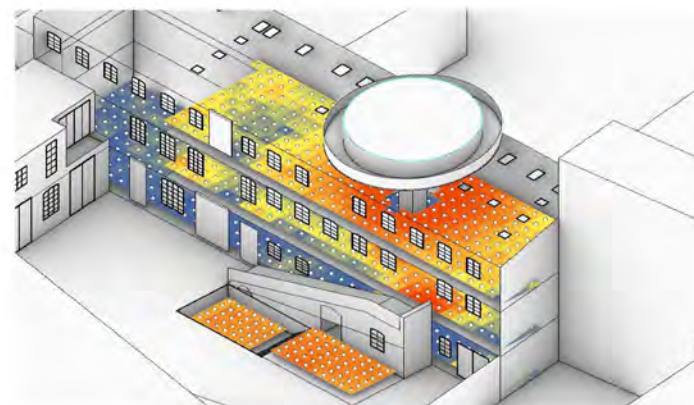
SUN HOUR 06/21

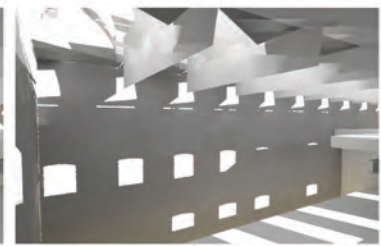
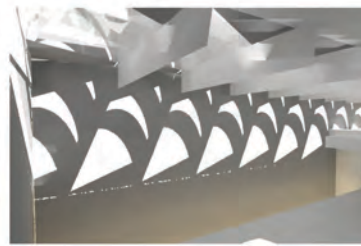
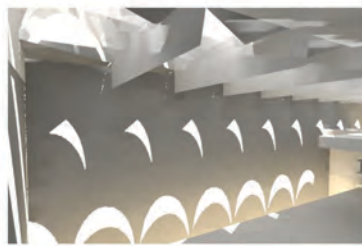
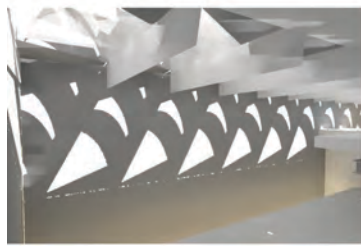
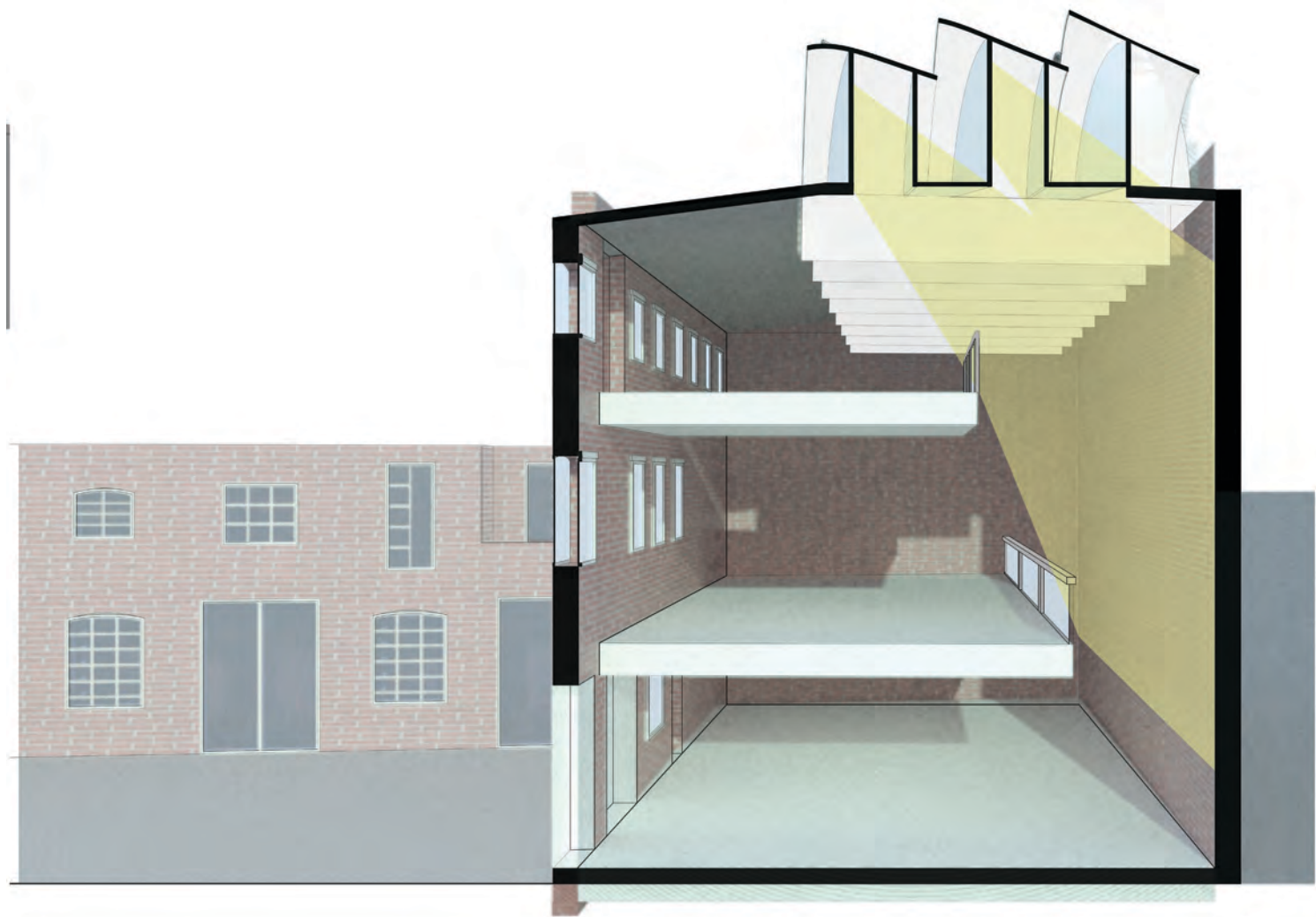


SUMMER VENTILATION



BASLINE DAYLIGHT AUTONOMY







July 1



# Housing / LOCATION in Berlin

- You can find your own housing.
- Location of studio>
- **AEDES ANCB CAMPUS**
- **<http://www.ancb.de>**



# BUDGET 2021

- PROGRAM FEE covers:
  - All instruction on site, guest lectures
  - Software tutorials / workshops
  - Workshop with professionals
  - Fieldtrips
  - Printing and other model making materials
  - Public transportation in Berlin
  - Occasional social events
  - Exhibition back in Ames

# CREDIT HOURS & TUITION

- 4 credits: ARCH 576 DE
- If you have taken ARCH 401, you can add 2 credits in the following fall to add to a 6 credit options studio (please contact me now).
- Tuition for 4 credits
- You need to get yourself to Berlin and provide housing on your own cost.







# Questions????????????????????

- <https://isuabroad.iastate.edu/?go=saberlin>

