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assignment

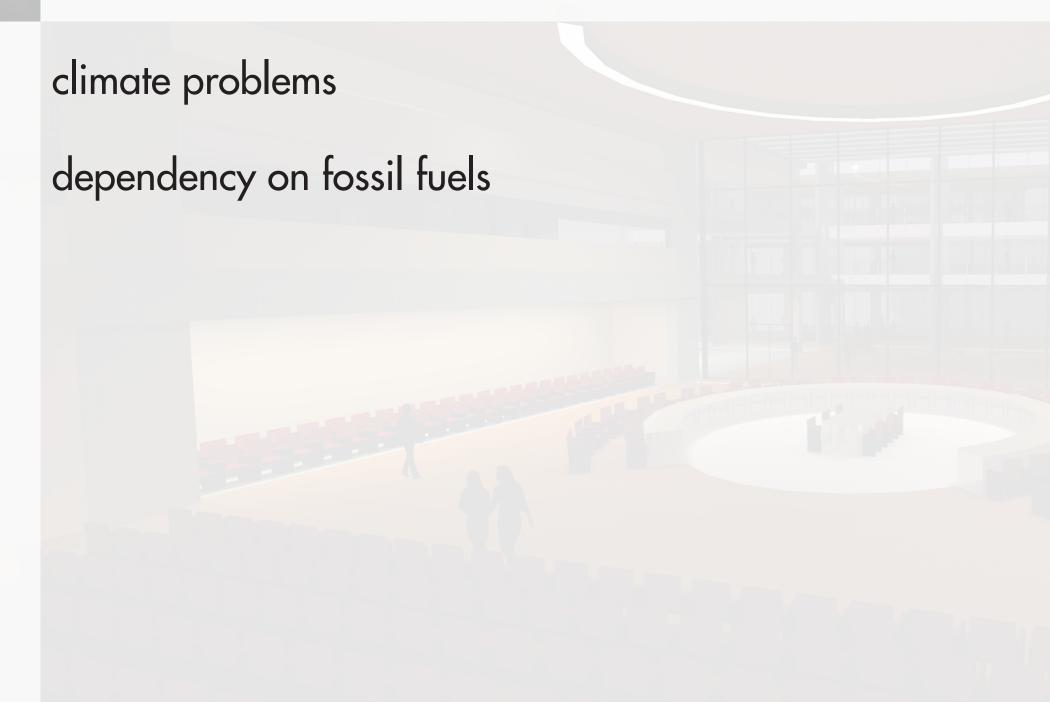
new building for a new council



new urban masterplan



the council





goals of the council

- solving the waste problem
- solving energy problem
- secure biodiversity

thereby creating a sustainable world....



the council

Which way can the council contribute to these goals

Inform: communicate knowledge

Motivate: give the people an impulse

Inspire: role model for new sustainability.



the building

Which way the building can contribute to these goals

- facilitate
- image for new architecture



requirements of the building

what should be the requirements of such a building

- security
- zero-energy
- it should generate energy
- image for the council



programme

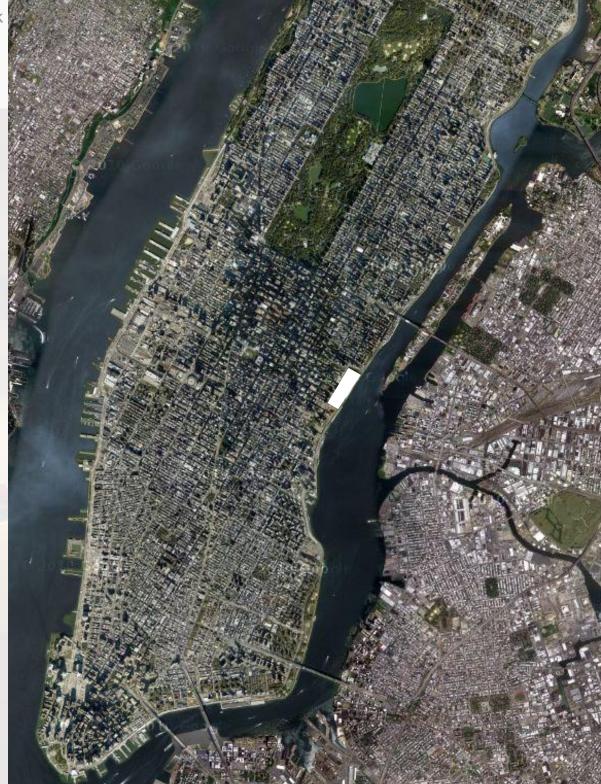
In order to fulfill the goals:

- the council room
- library & expositions
- auditoriums & meeting rooms
- offices 7000 m2



United Nations Environmental Council in New York

the location in New York





United Nations area



United Nations Headquarters













1st Avenue













New York Waterfront



New York has a history with piers



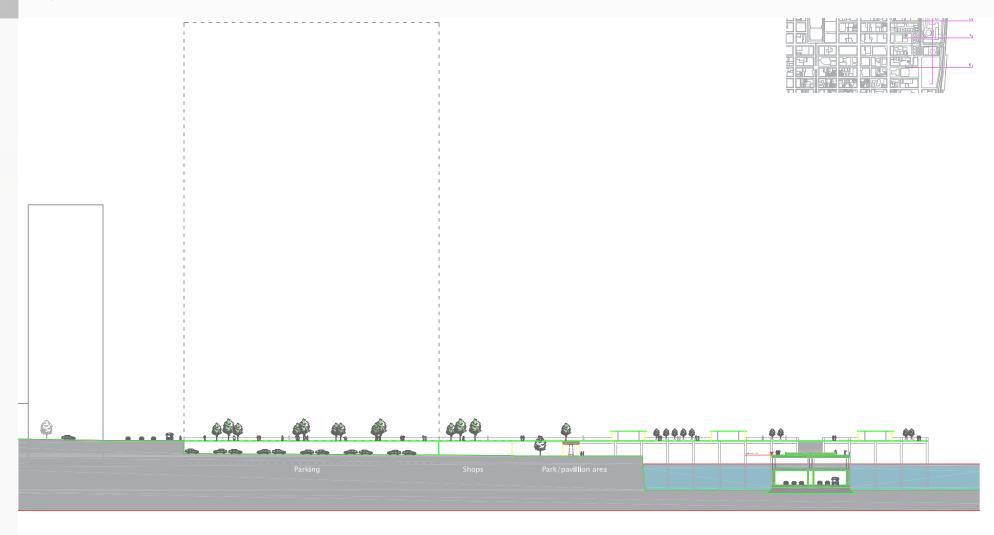
Waterfront West side Manhattan

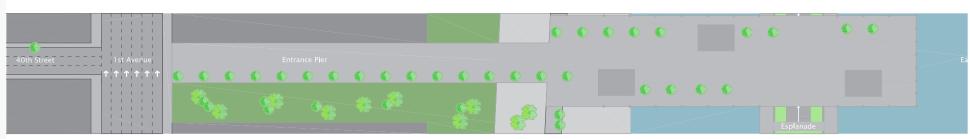






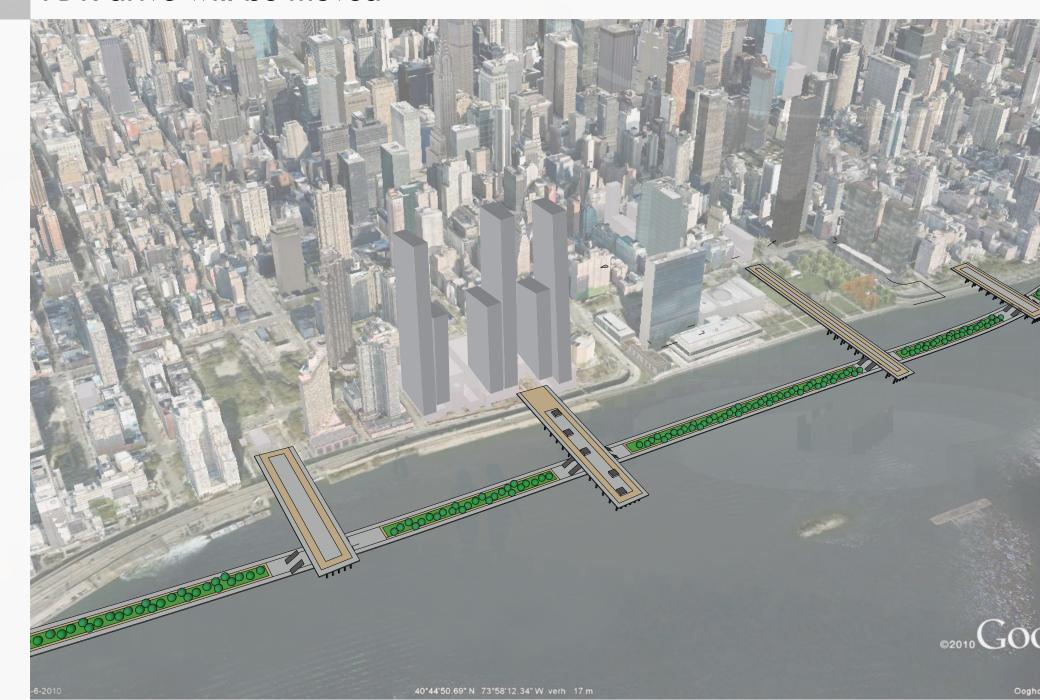
New FDR Drive





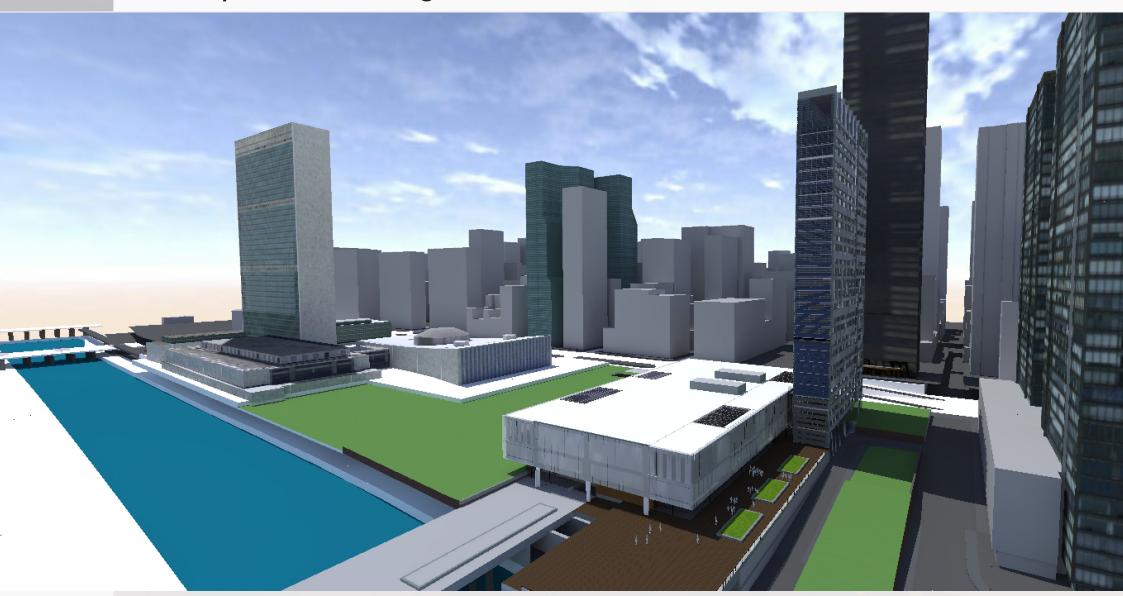


FDR drive will be moved





Use of pier in building



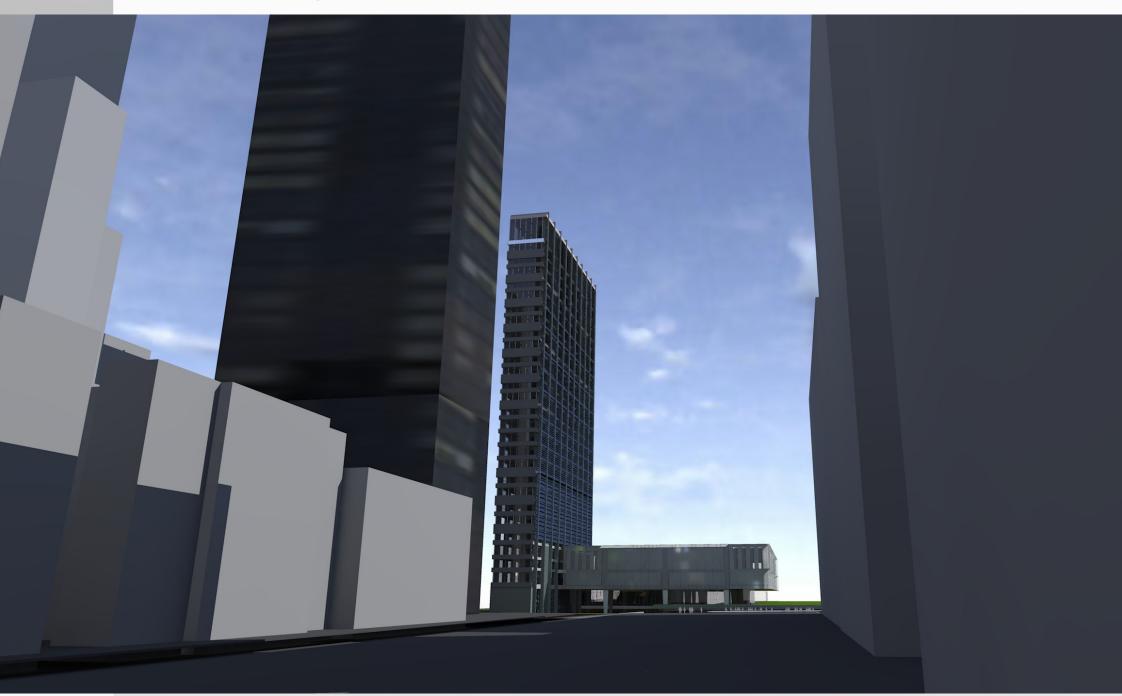








render vanaf plaza



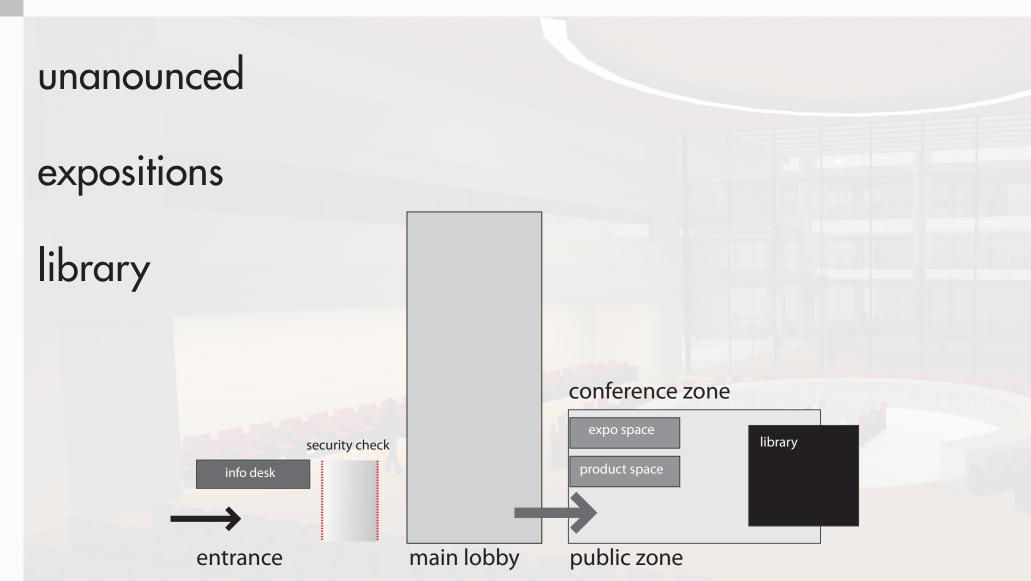


Users

- Visitors
- Press & Businessmen
- Employees
- Delegates



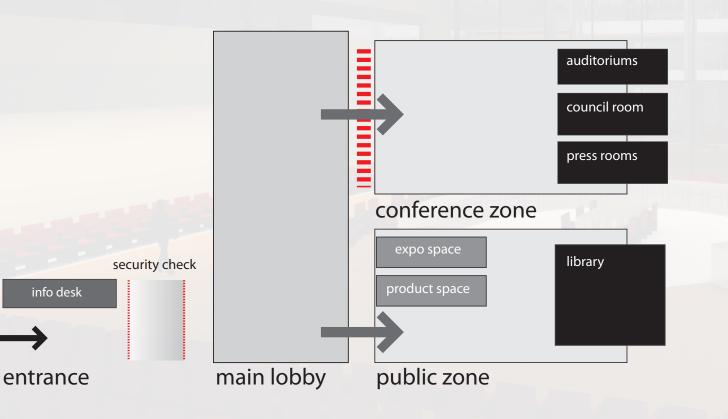
Visitors





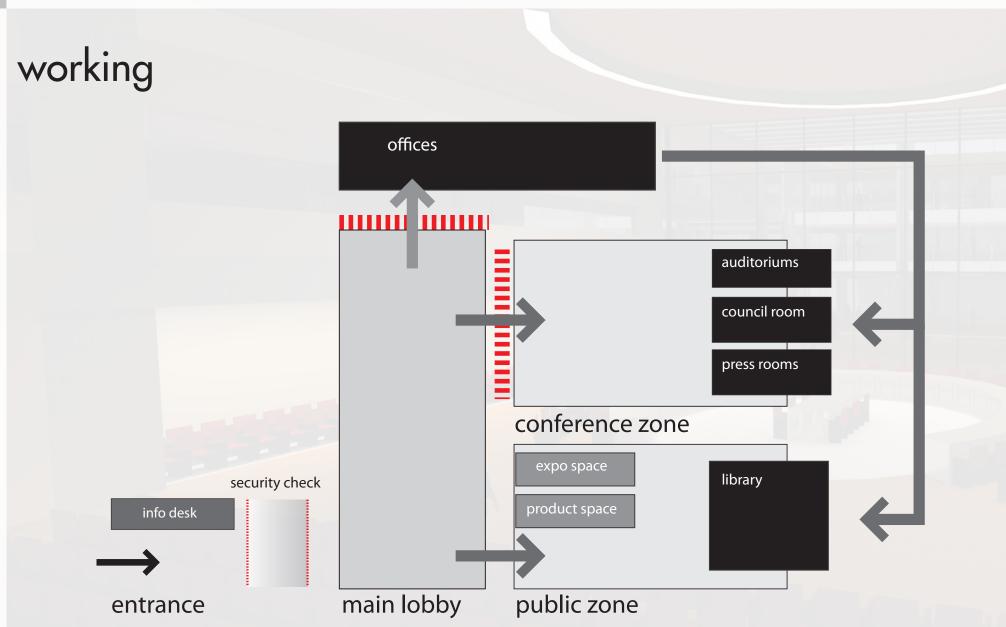
Press & Bussinessmen

- meetings
- conferences
- information





Employees

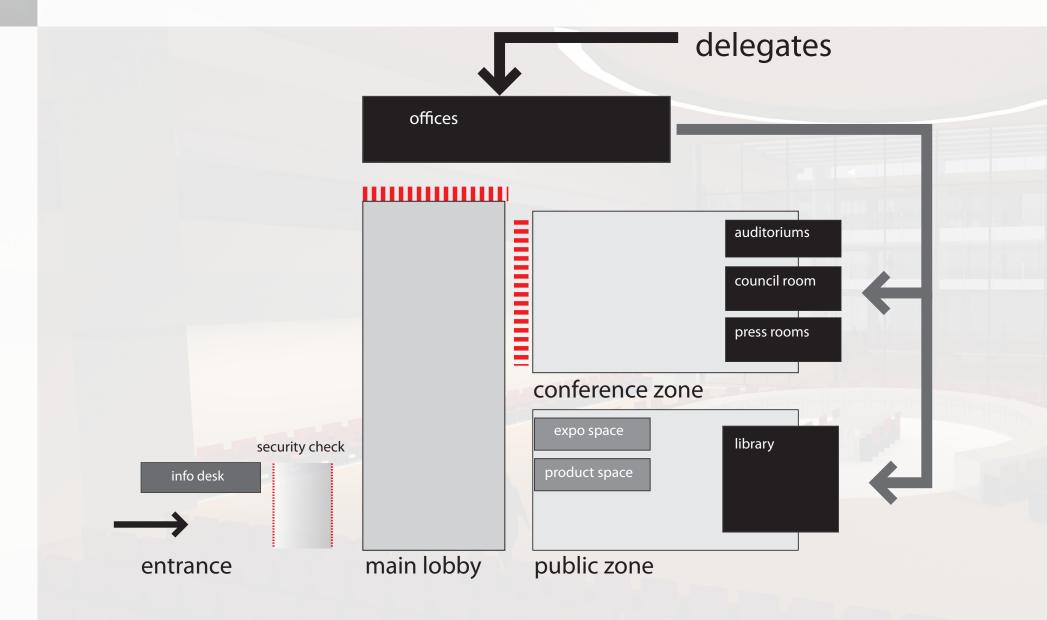




Delegates

- entourage
- council meetings
- (in)formal meetings
- backdoor entrance to most rooms





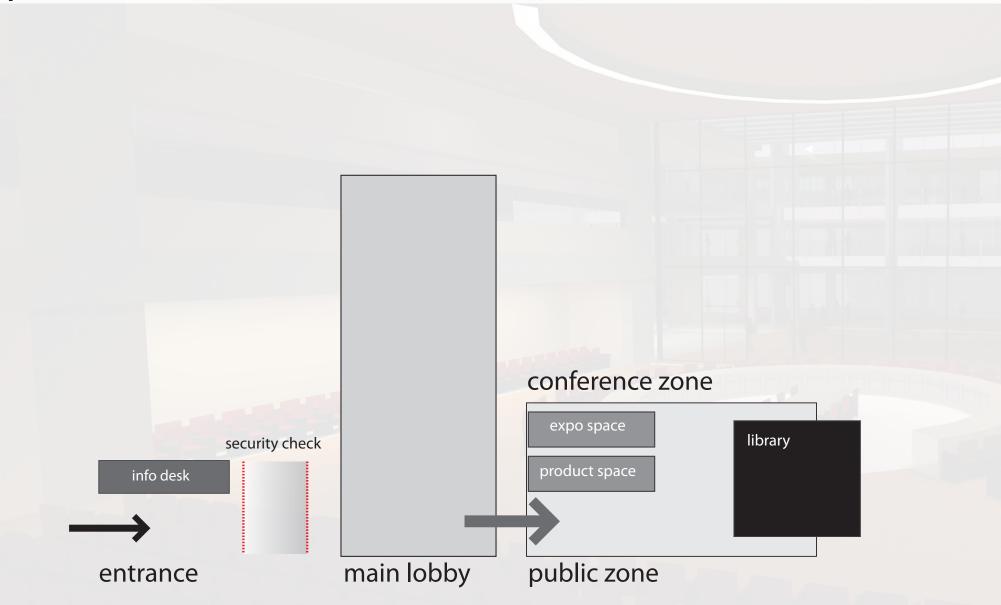


three circuits

- public
- conference
- employee/service



public circuit



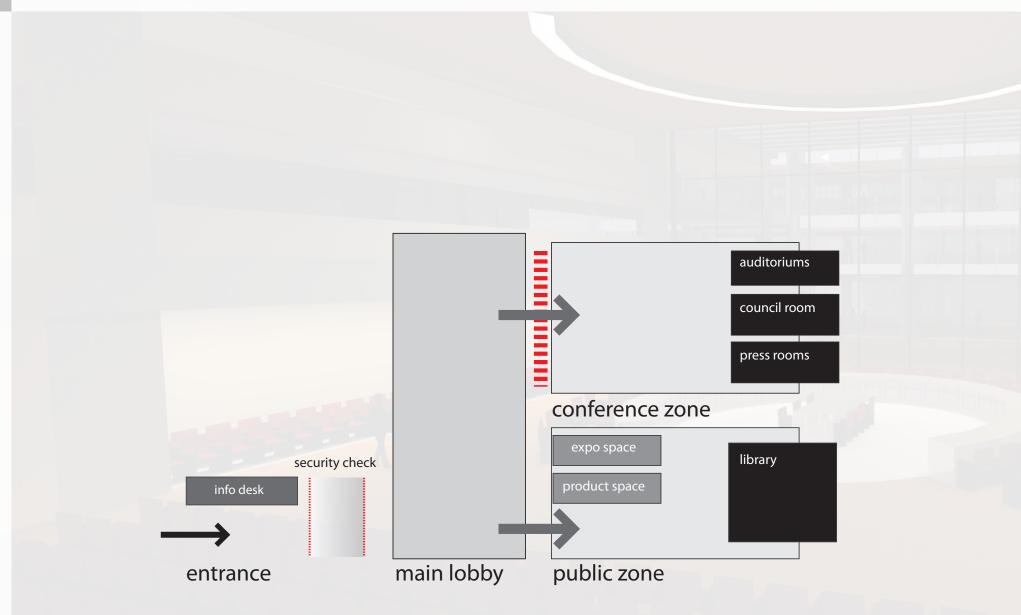


public circuit

- large crowds
- short visits easy access
- open
- connection with the pier



conference circuit



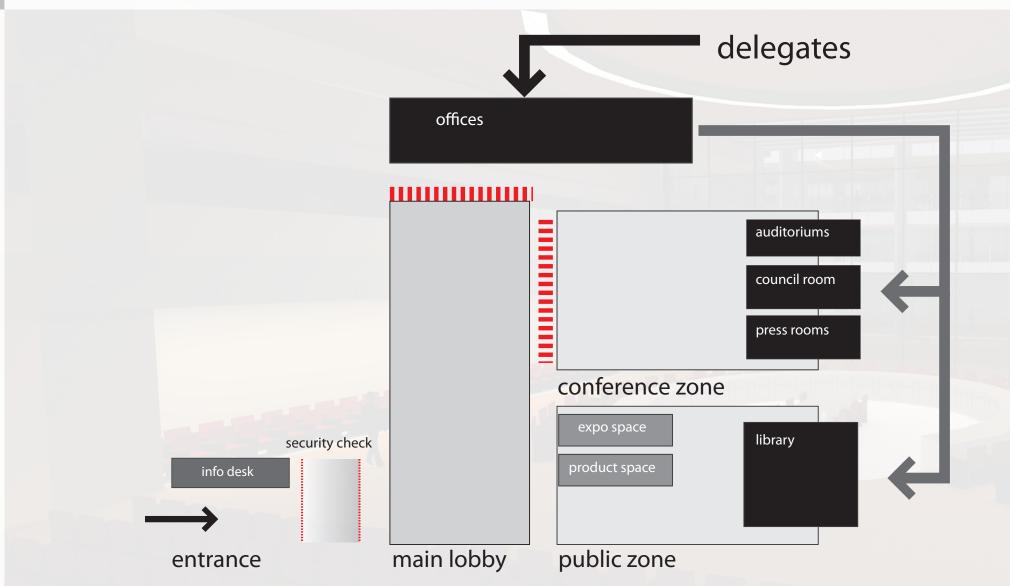


conference circuit

- large crowds
- long visits
- closed
- restaurant



employee/delegate circuit





employee/delegate circuit

- closed circuit
- access to every space without passing the other circuits



concept



conference area

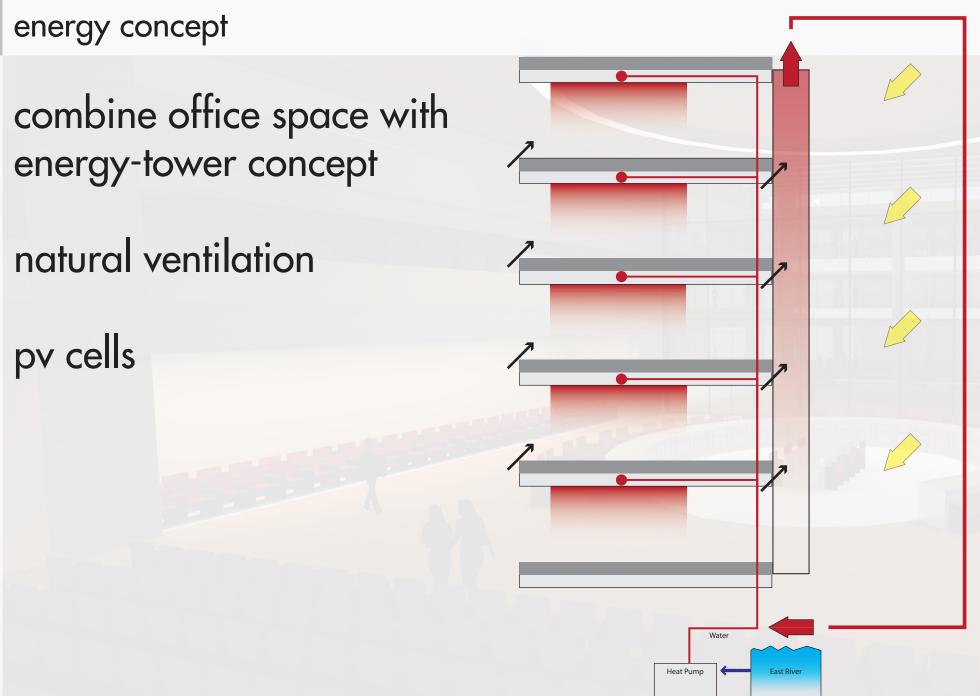
public-zone



concept

public intensive on lower floors offices spaces on higher floors landmark/headquarter image











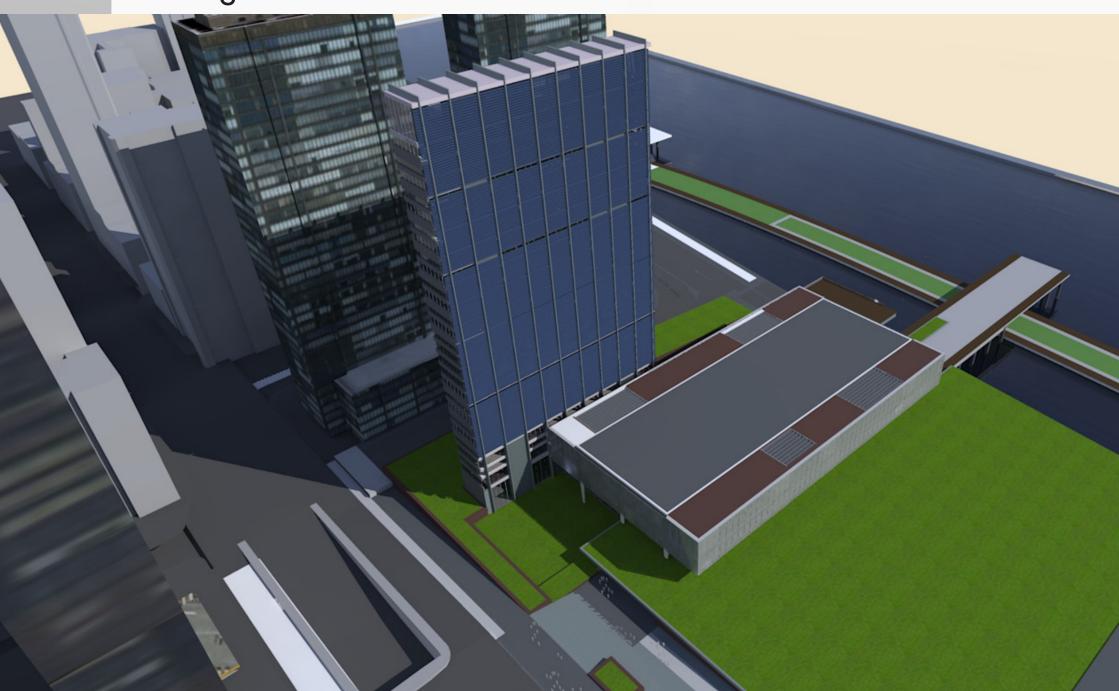


impression





building in context





public entrance







impression





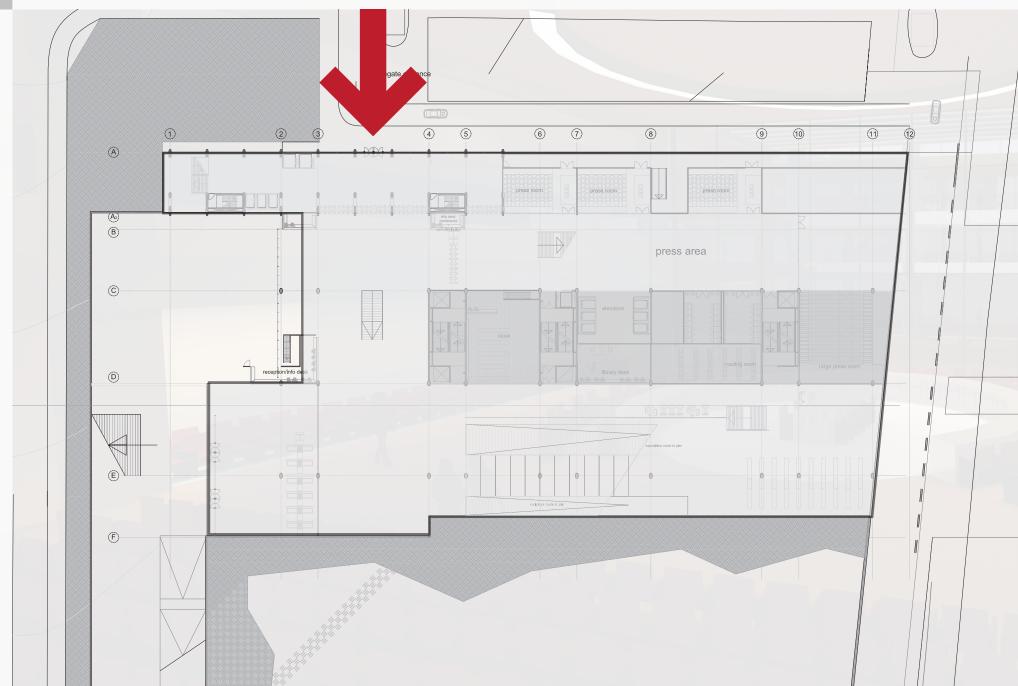


impression





Delegate entrance





public zone

Library

Kiosk

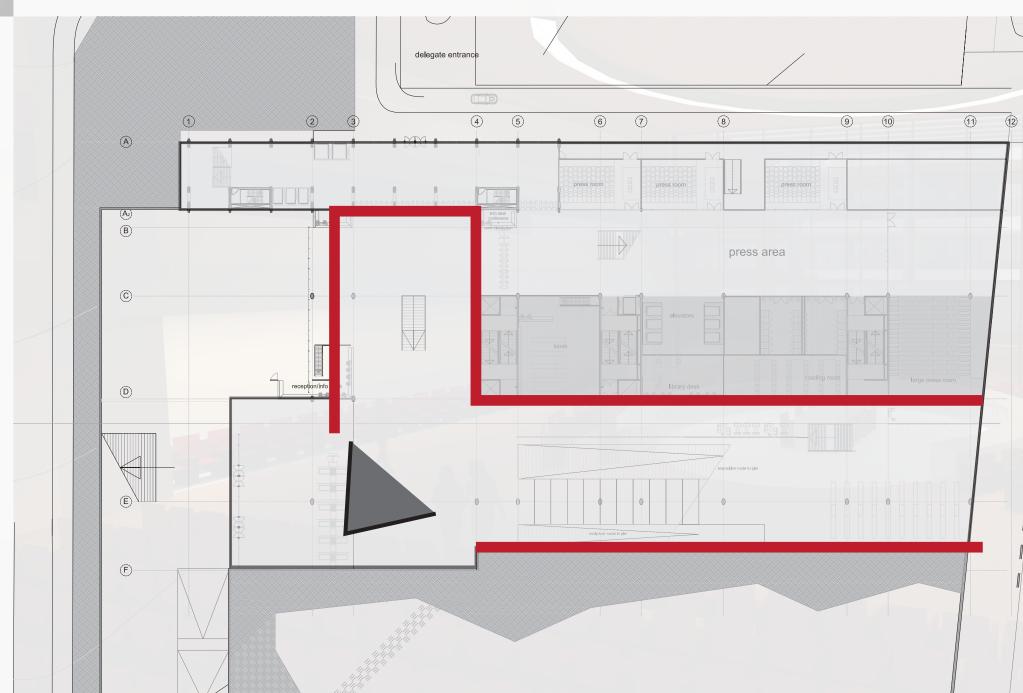
Exposition space

Service area

Connection to pier



Public zone





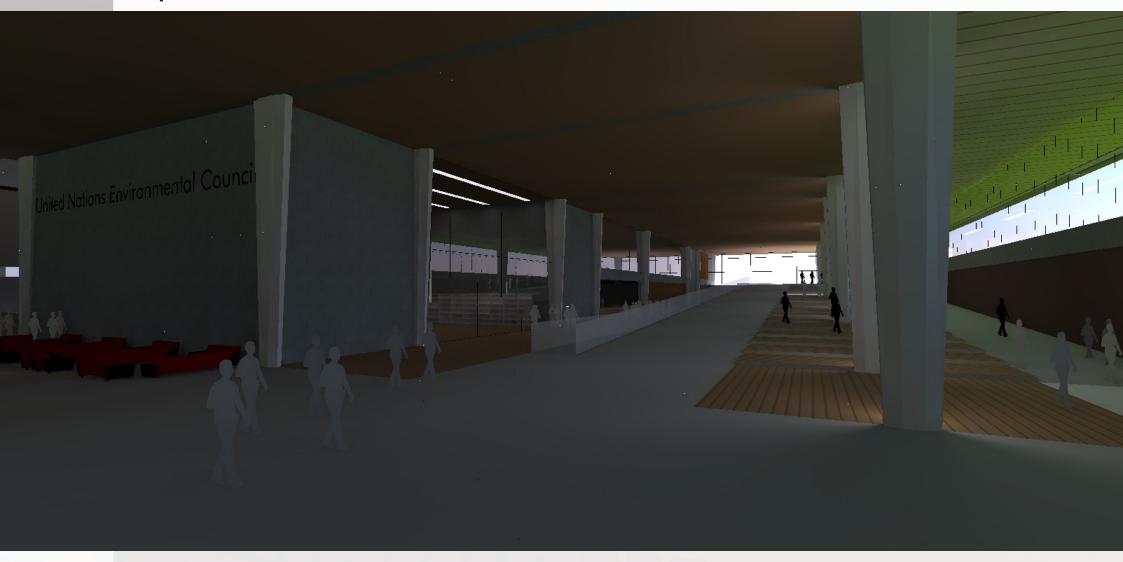


Impression



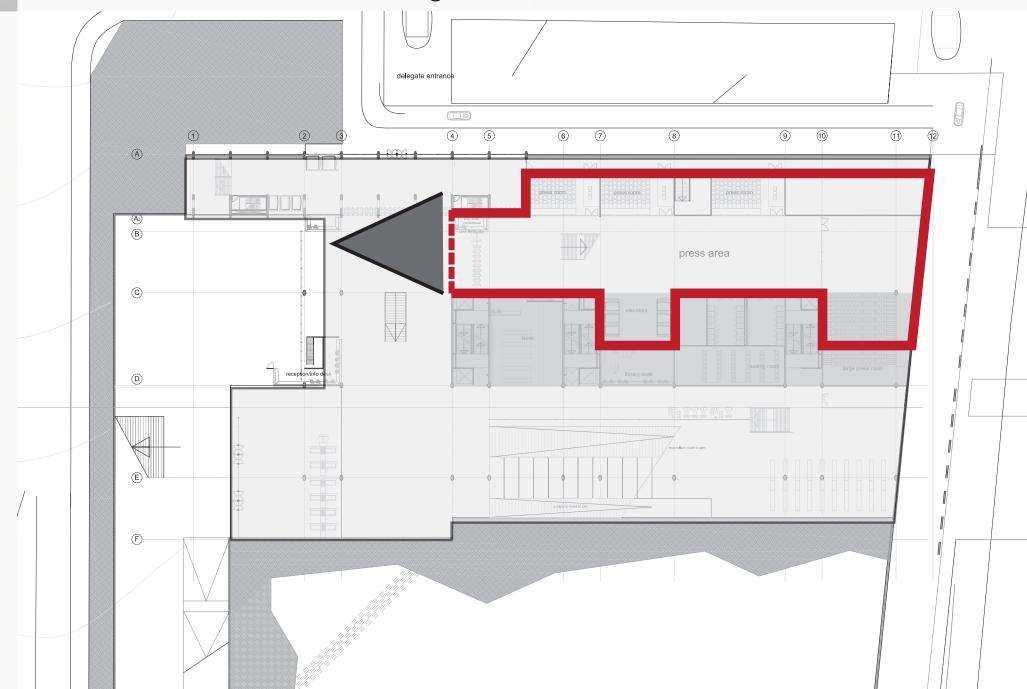


Impression





Conference zone entrance - ground floor



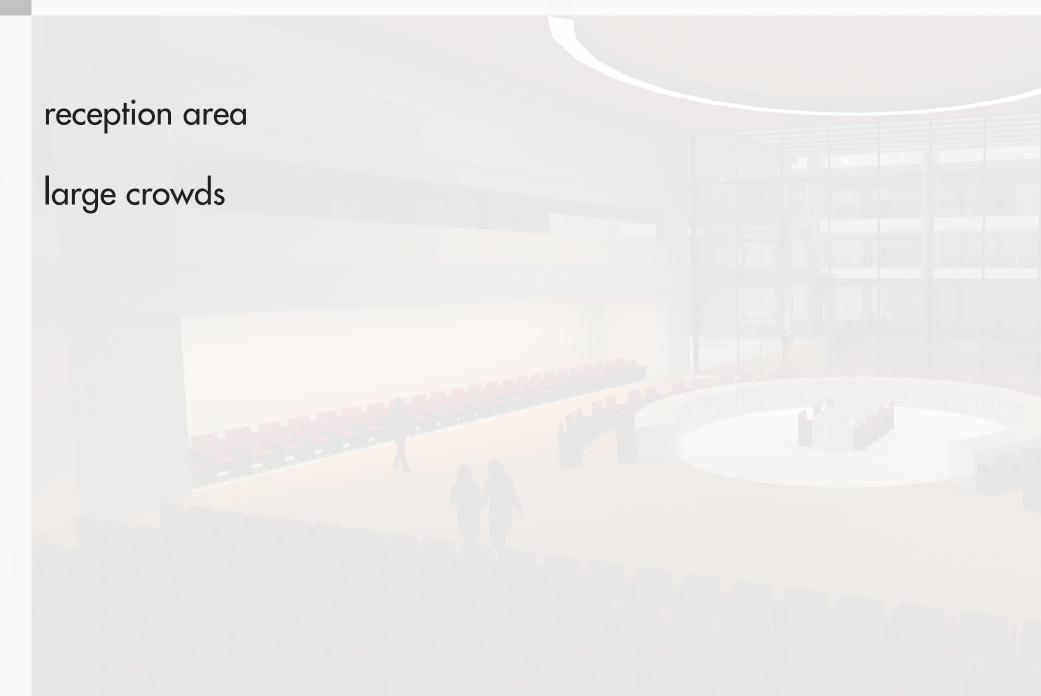


Impression



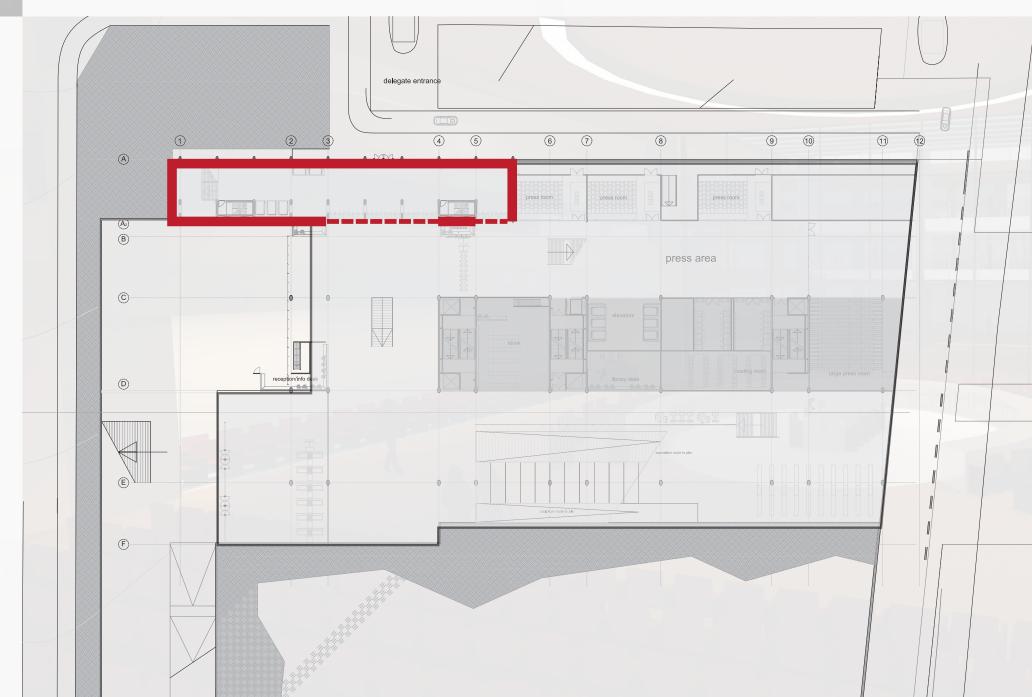


delegate zone - ground floor



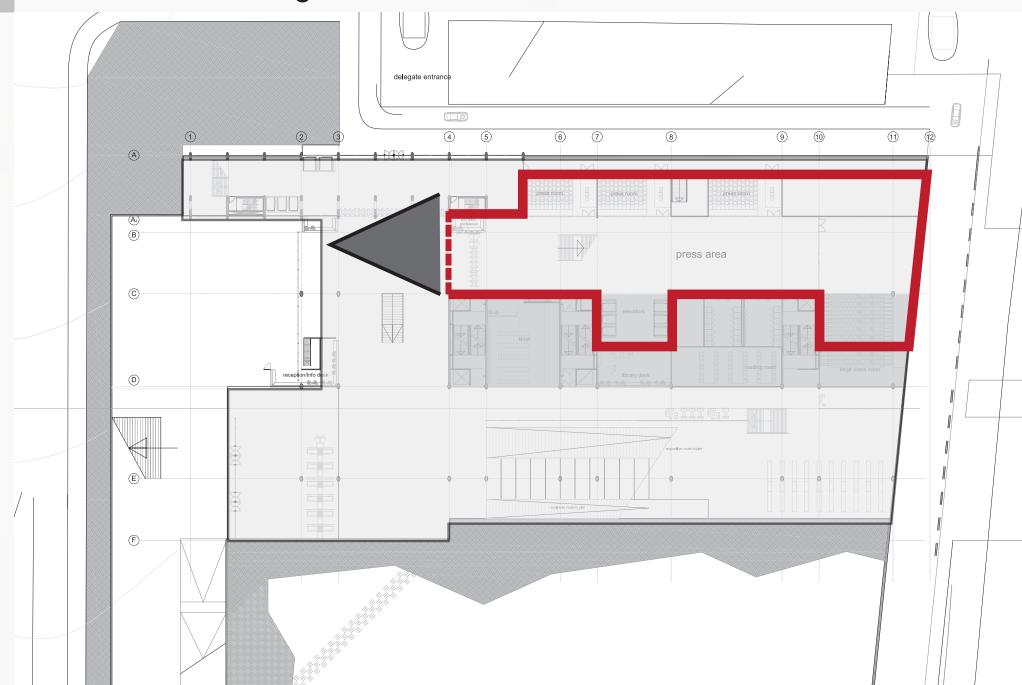


delegate zone - ground floor



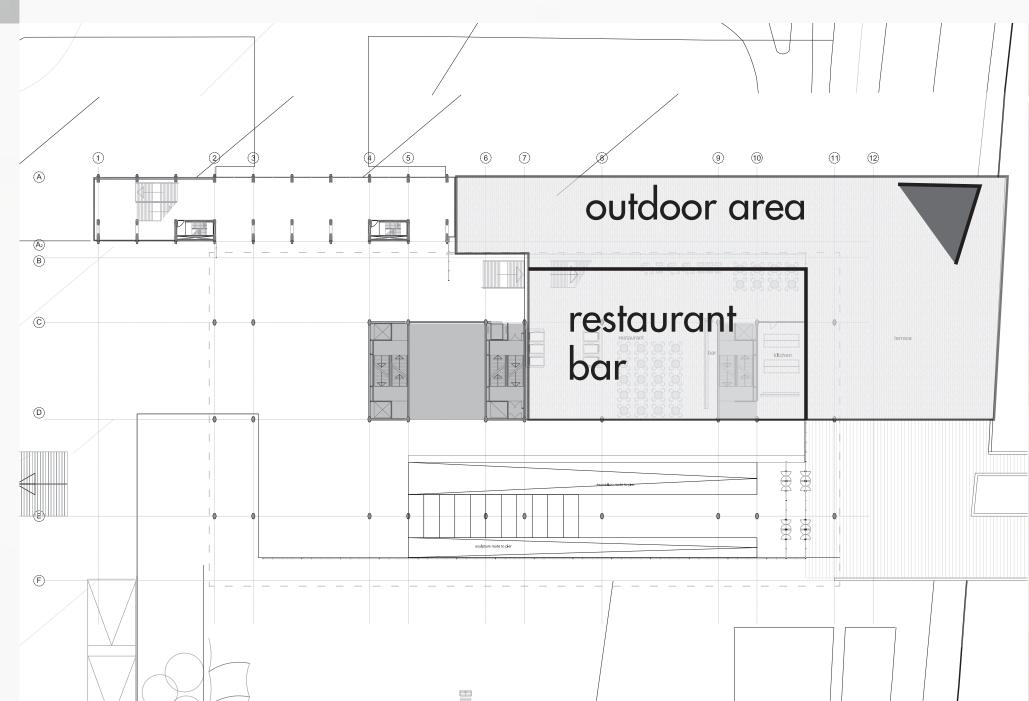


Conference zone - ground floor



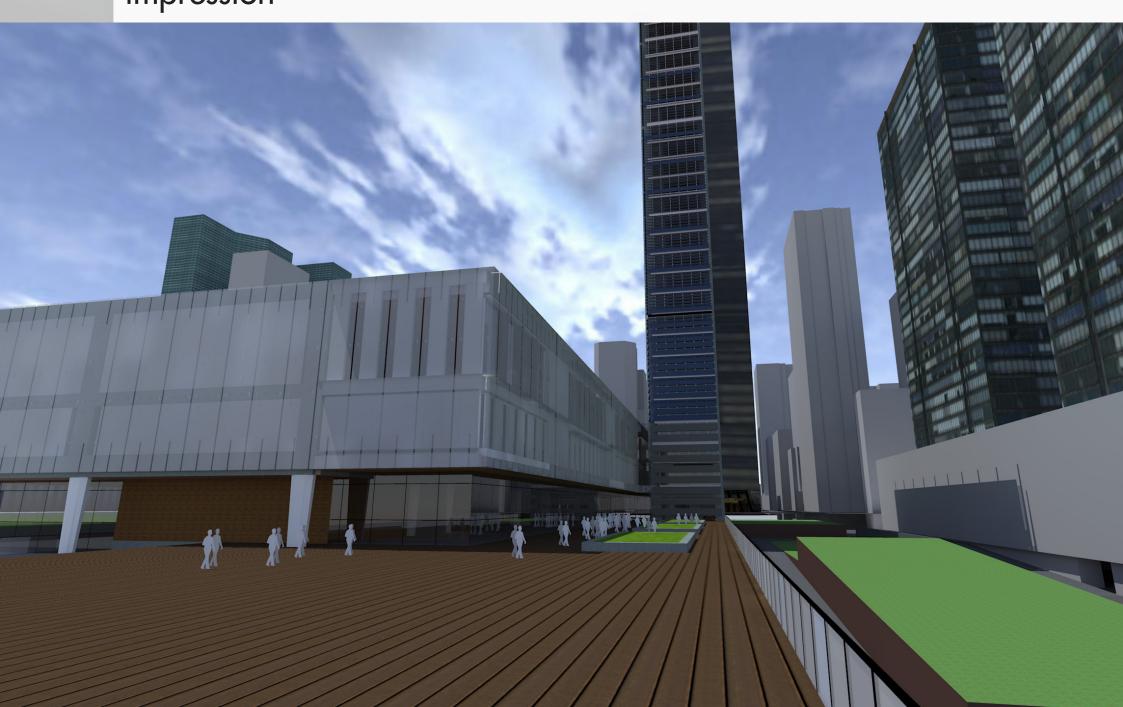


conference zone - 1st floor



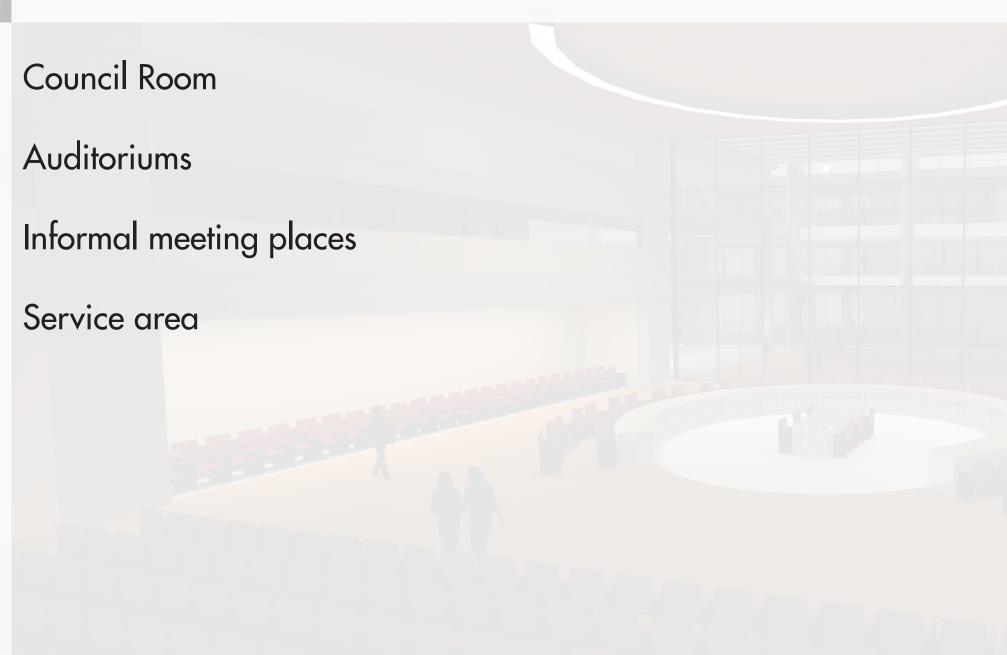


impression



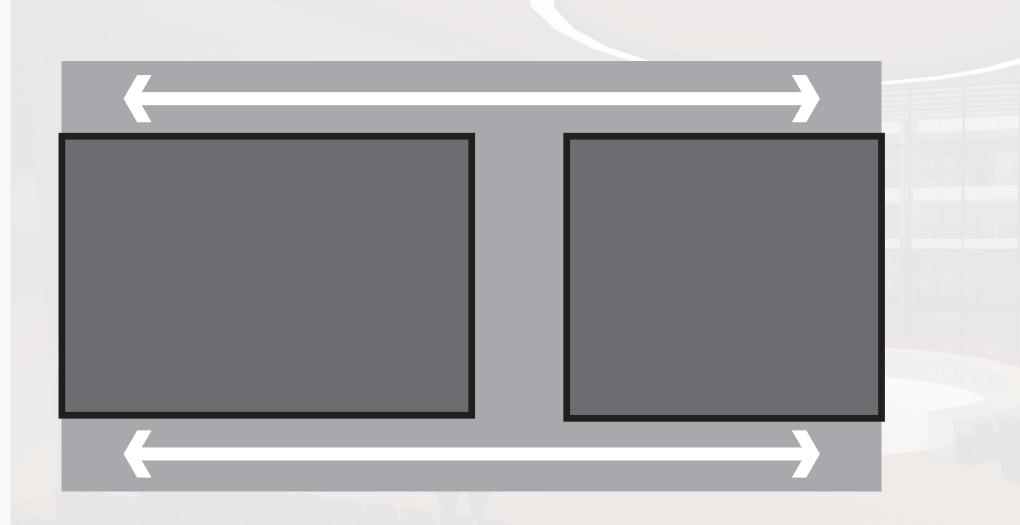


conference area - Main floor



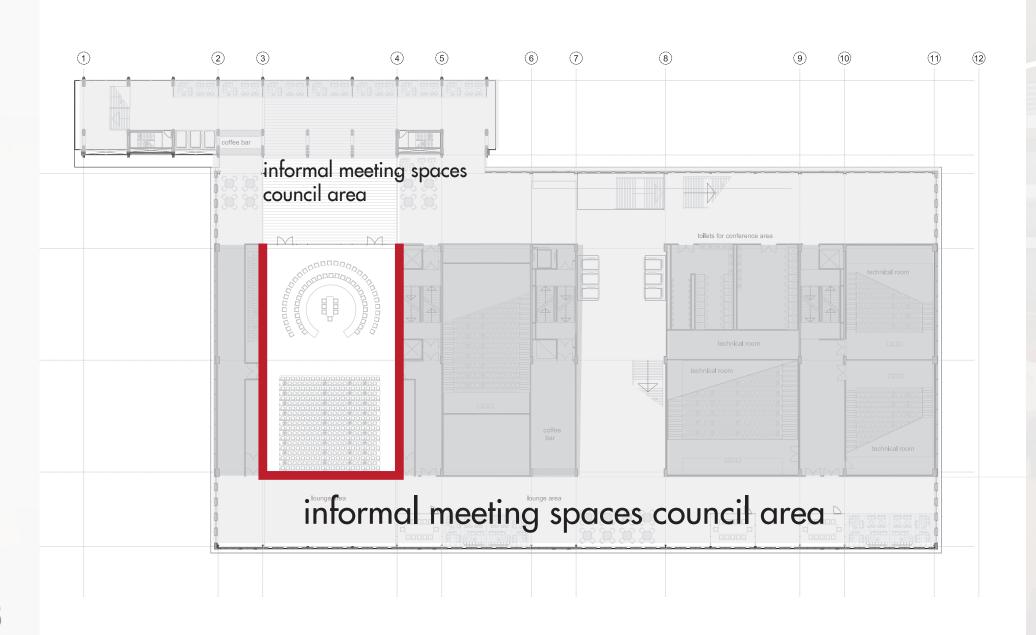


conference area concept



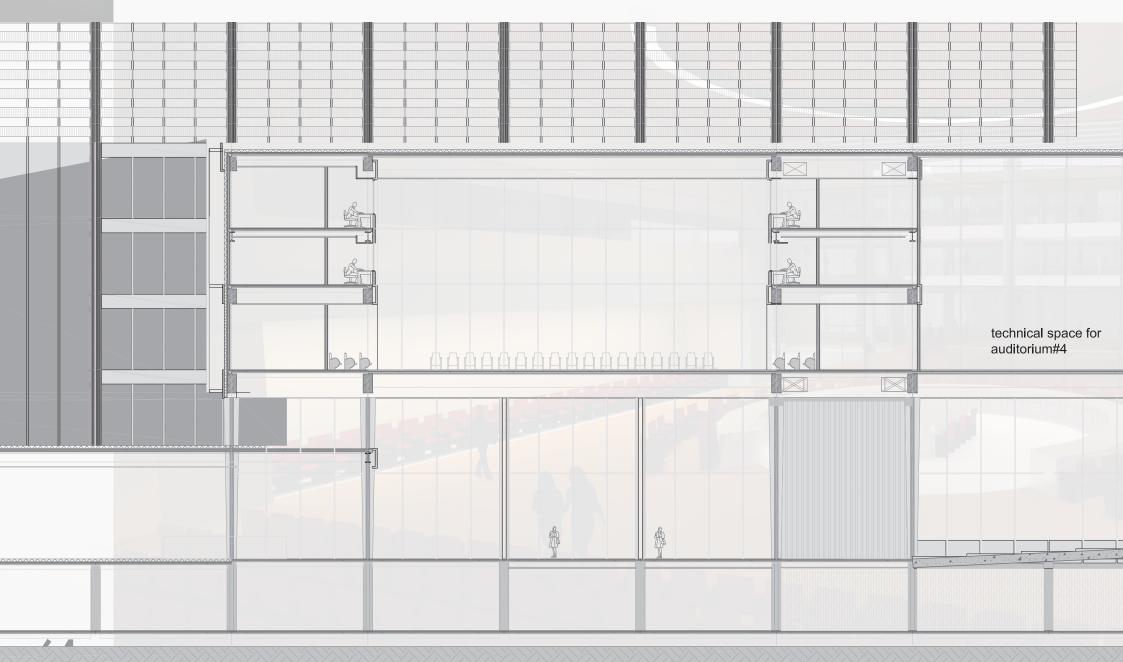


main floor - council room



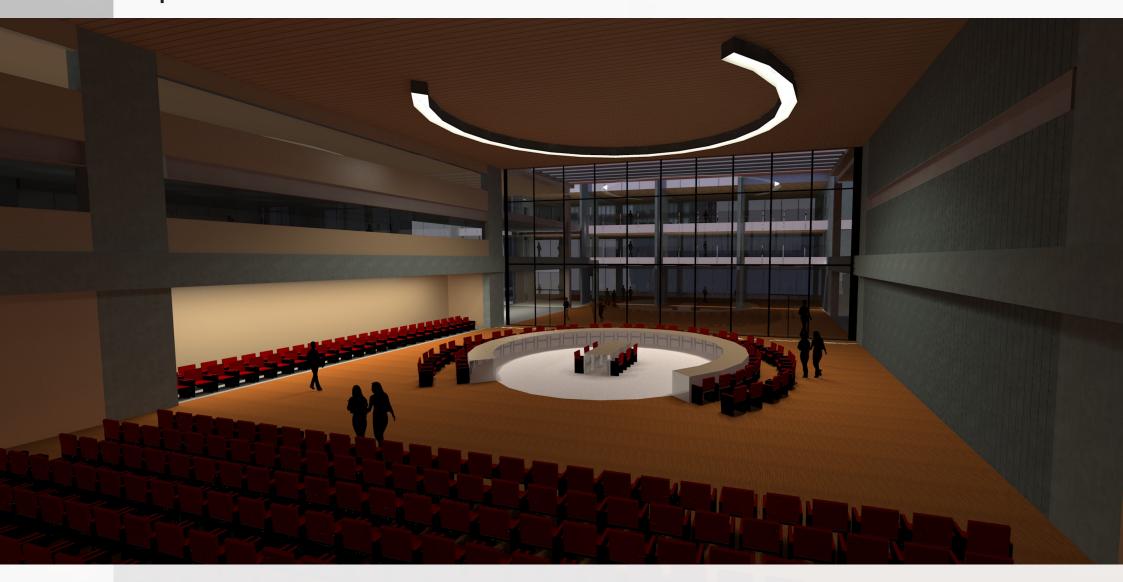
United Nations Environmental Council in New York - P5 presentation June 2011 - Joep Looman - 1375008

Section Council room





impression council room

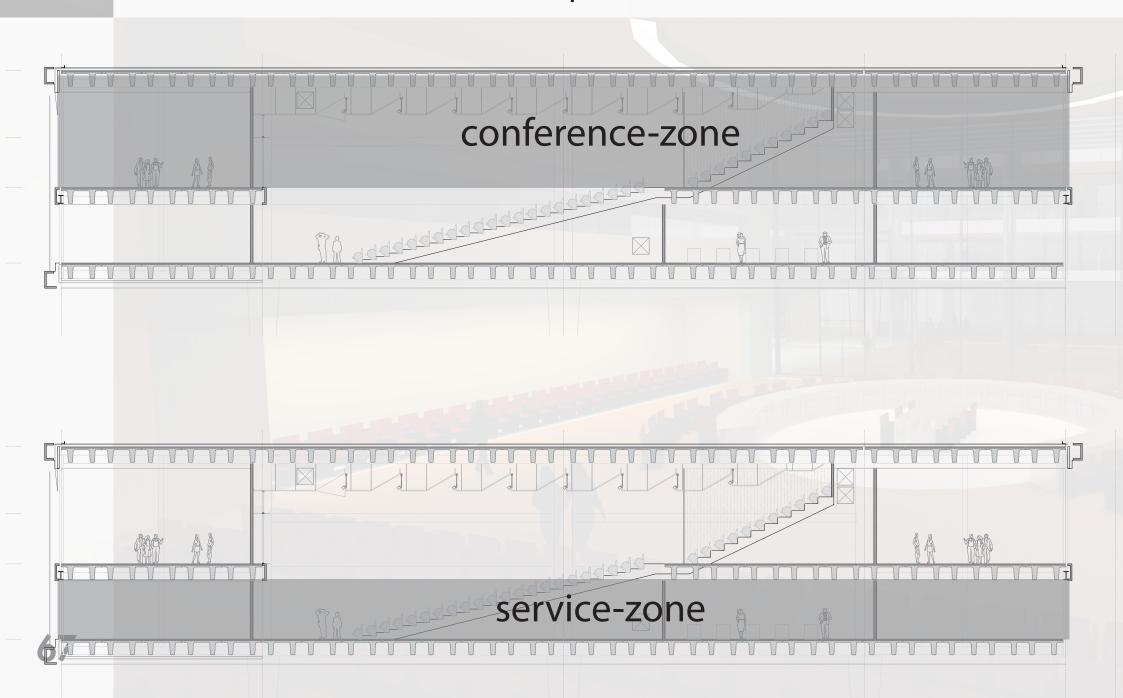


UNEC New York



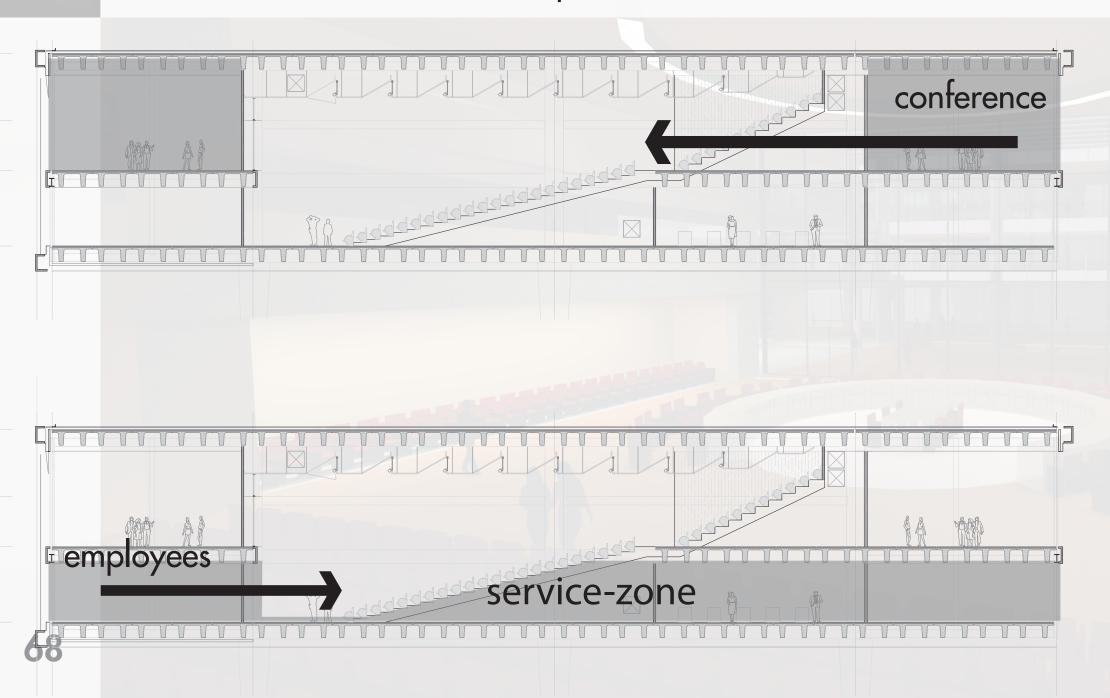


conference area - service concept



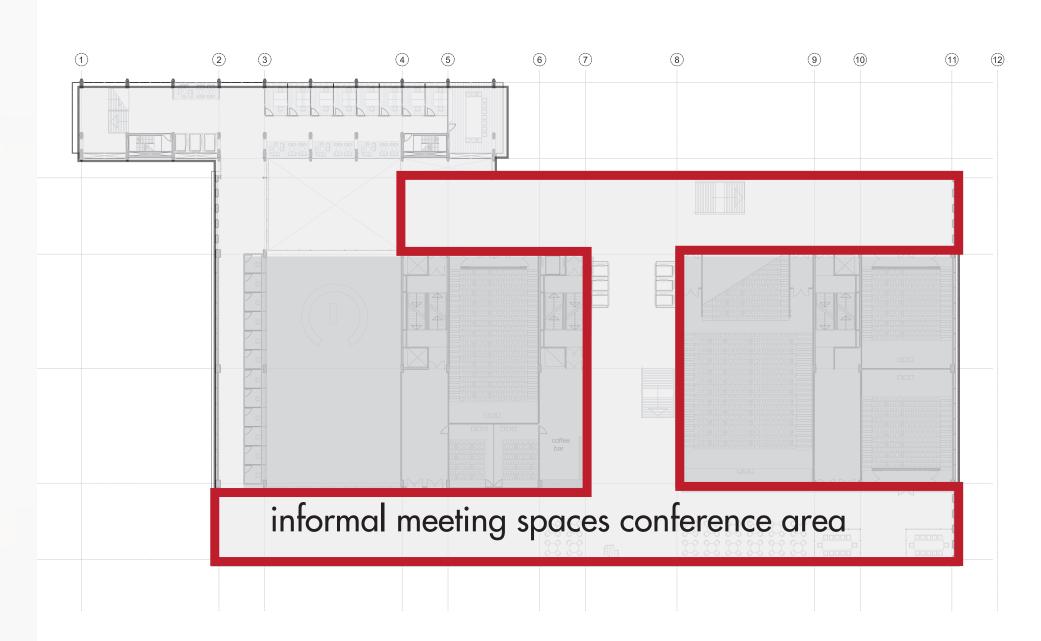


conference area - service concept





main floor - conference area

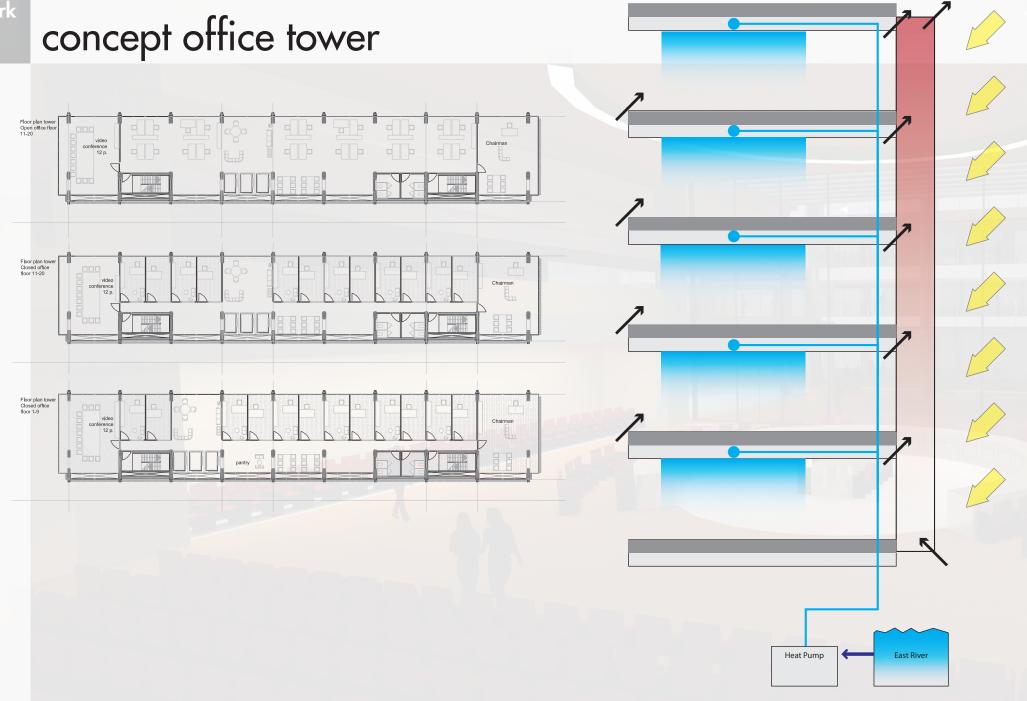




impression

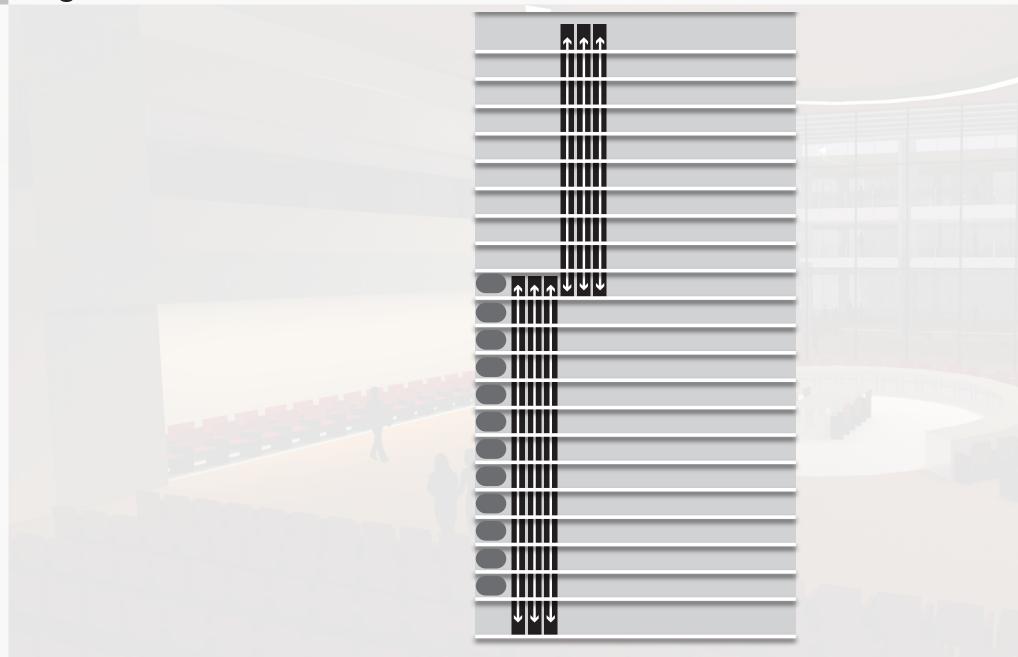








organization

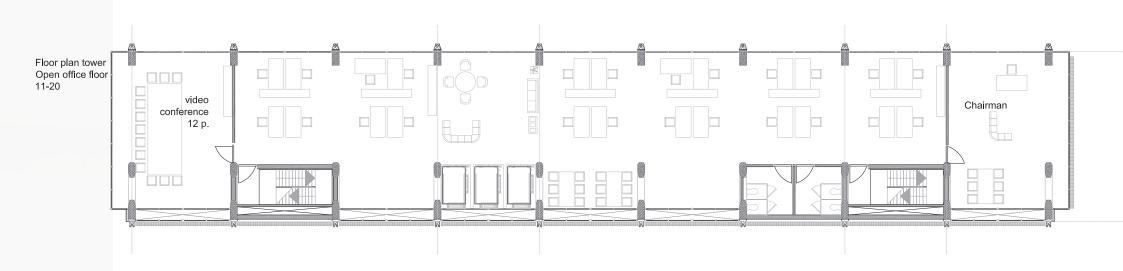




concept

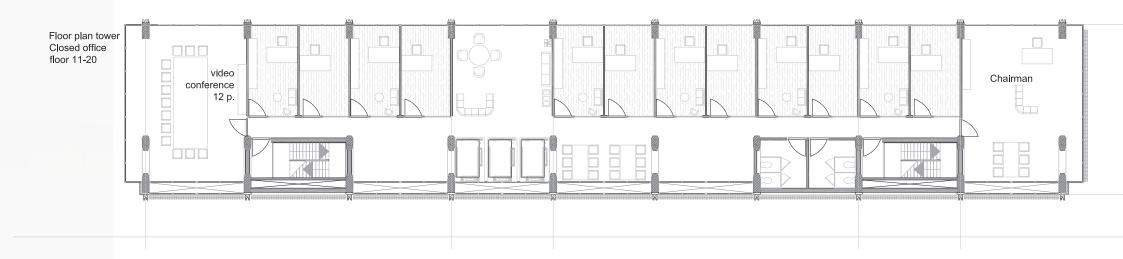














impression open office floor





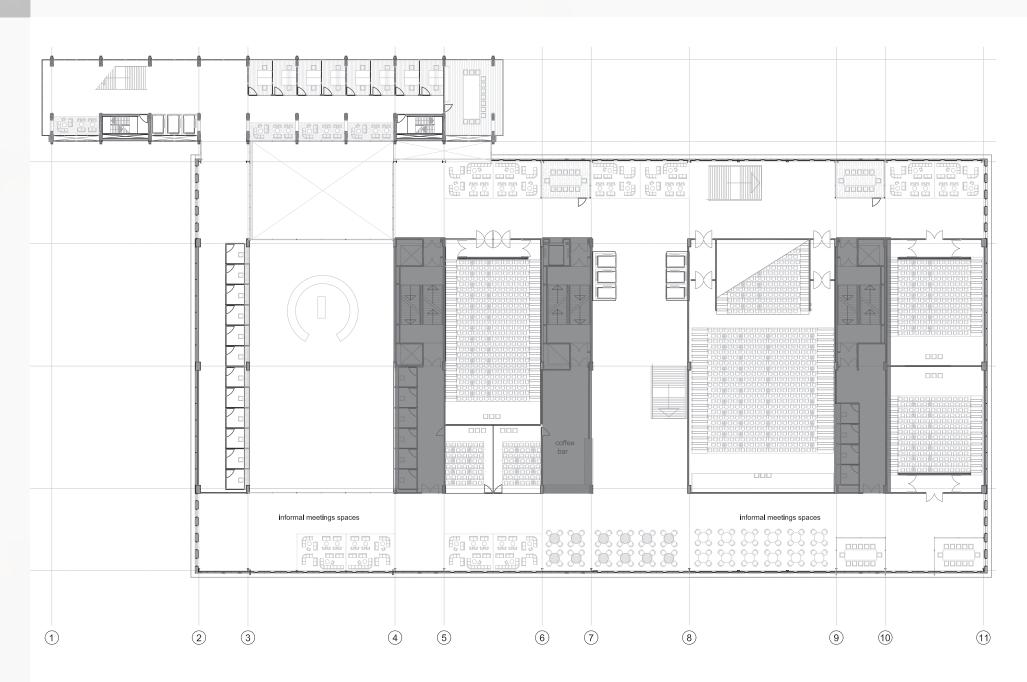
installations

Air-to-Air system for large crowds

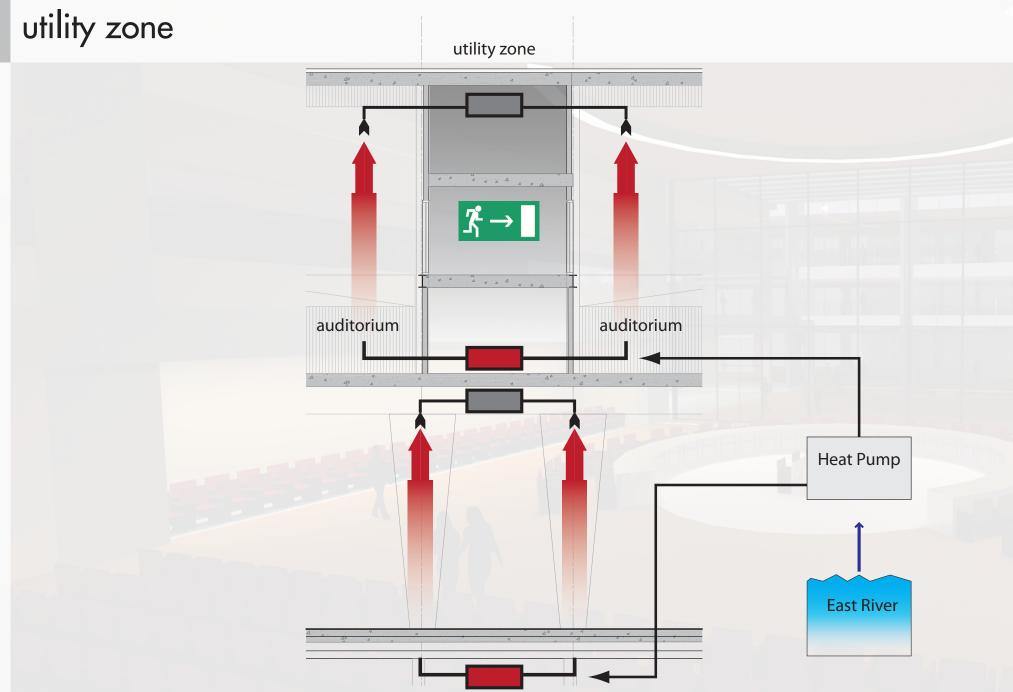
Water-to-Air for office space



installations

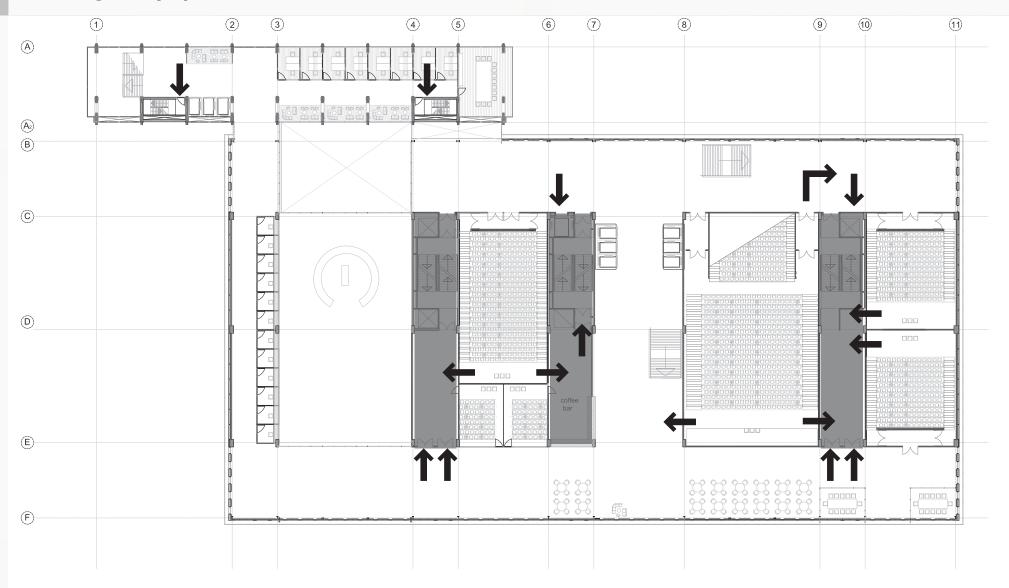






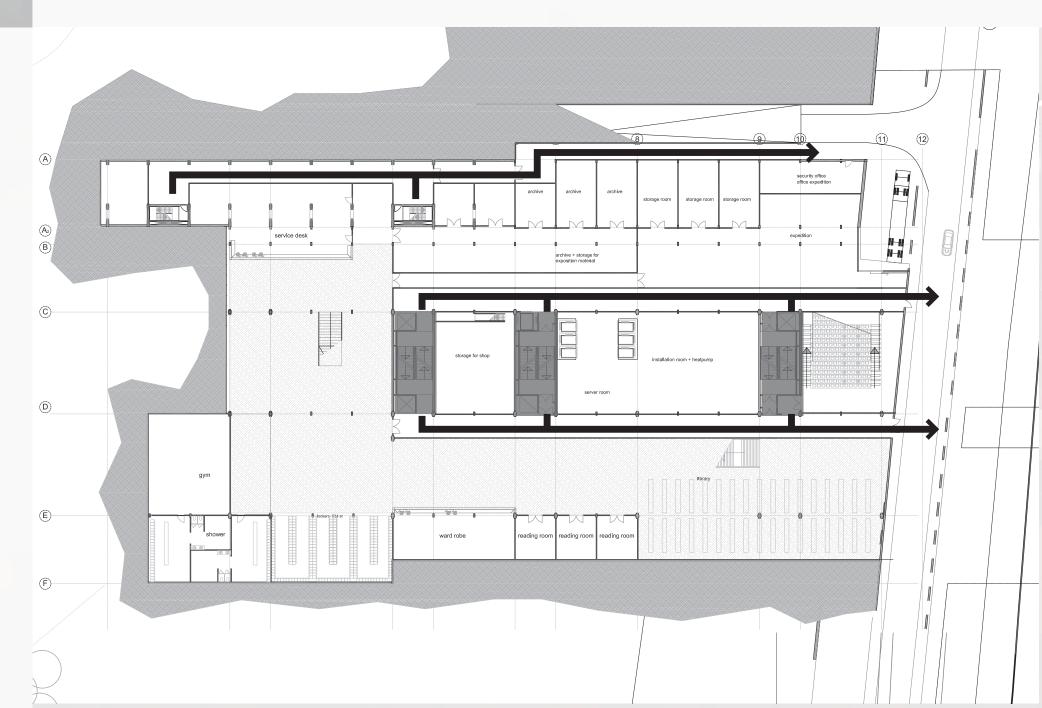


emergency plan

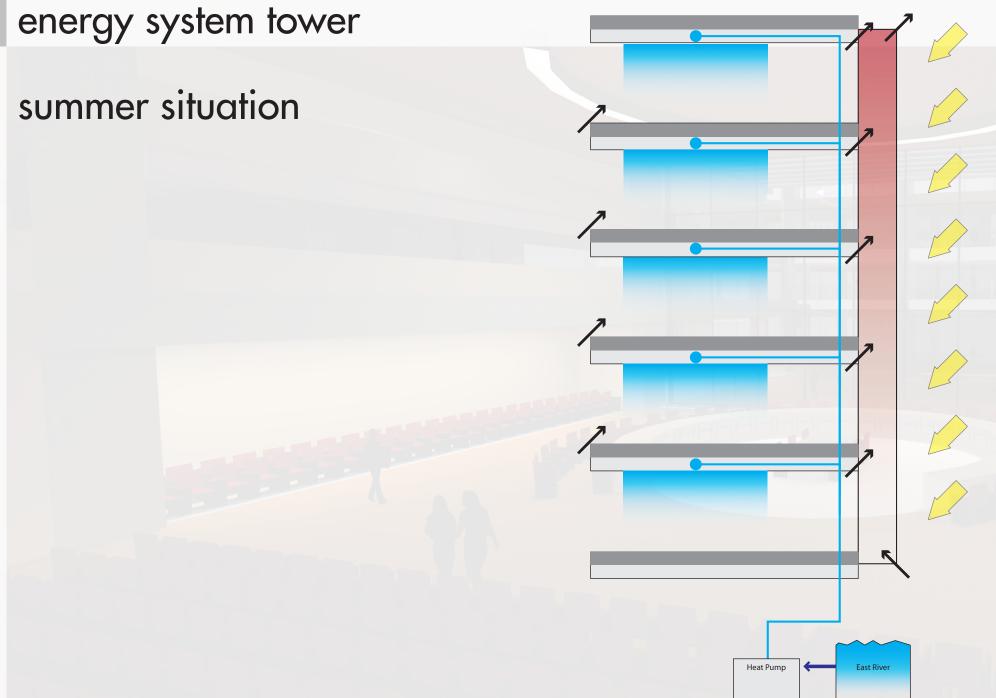




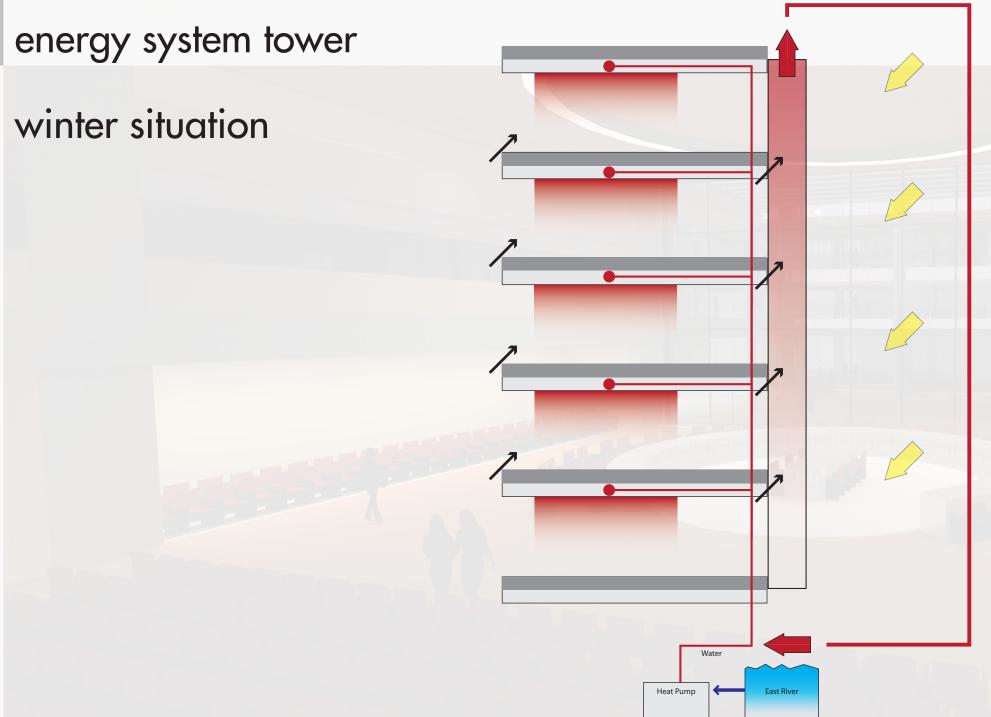
emergency plan







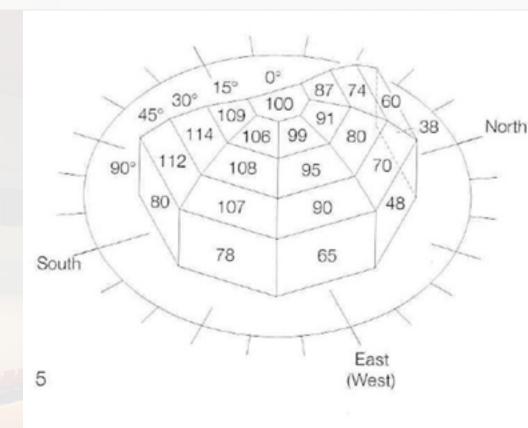






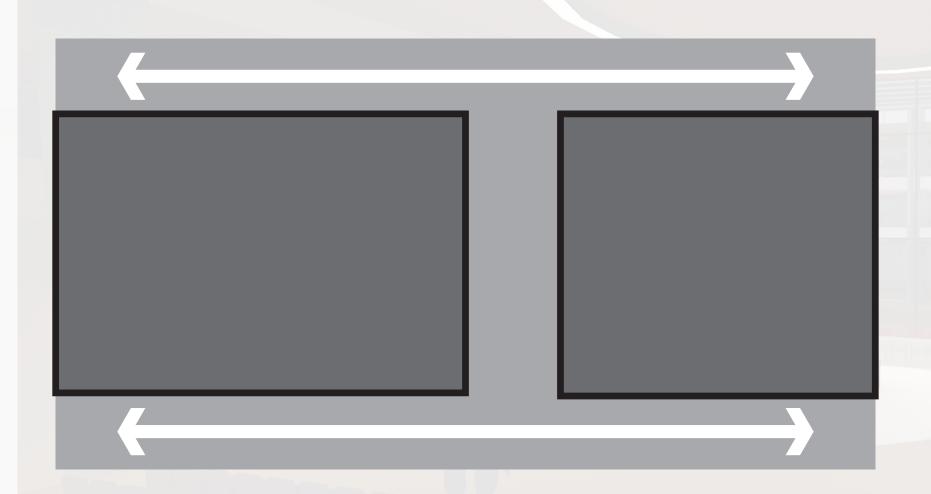
concept tower energy

Netto Office space 14 484 m2
Energy needed 125kWh/m2 year = 1 810 500 kWh
irridiation level New York = 1550 kWh/m2 year
max yield 19% - average sun hours 4.08
surface factor when placed 40 degree angle = 107%
performance ratio 90%
pv cell surface -> 6247 m2
1550 * 1.07 * 0.19 * 0.90 * 6247 = 1 771 671 kWh



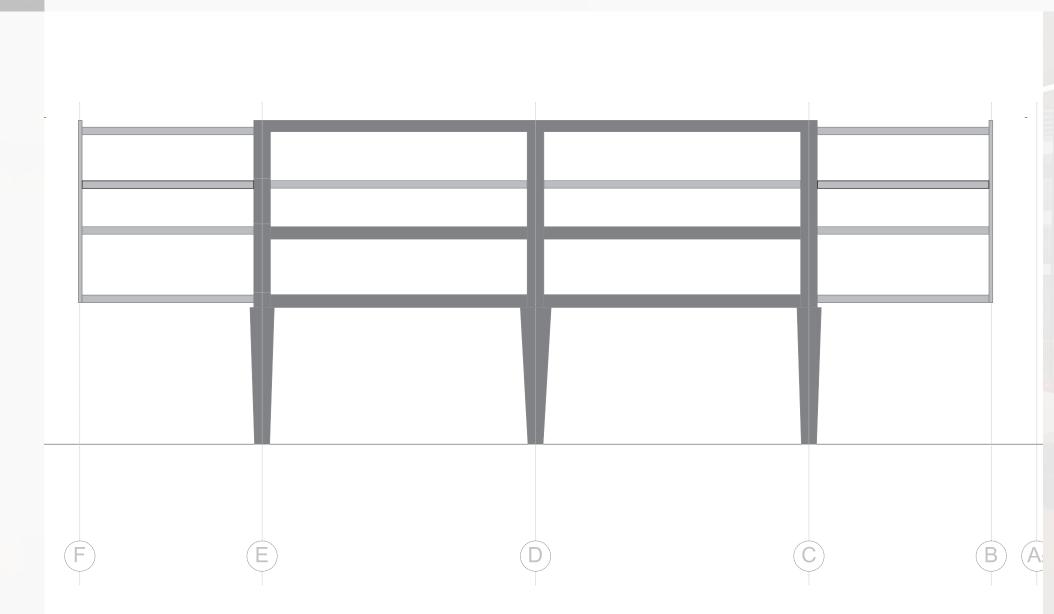


construction principle conference building

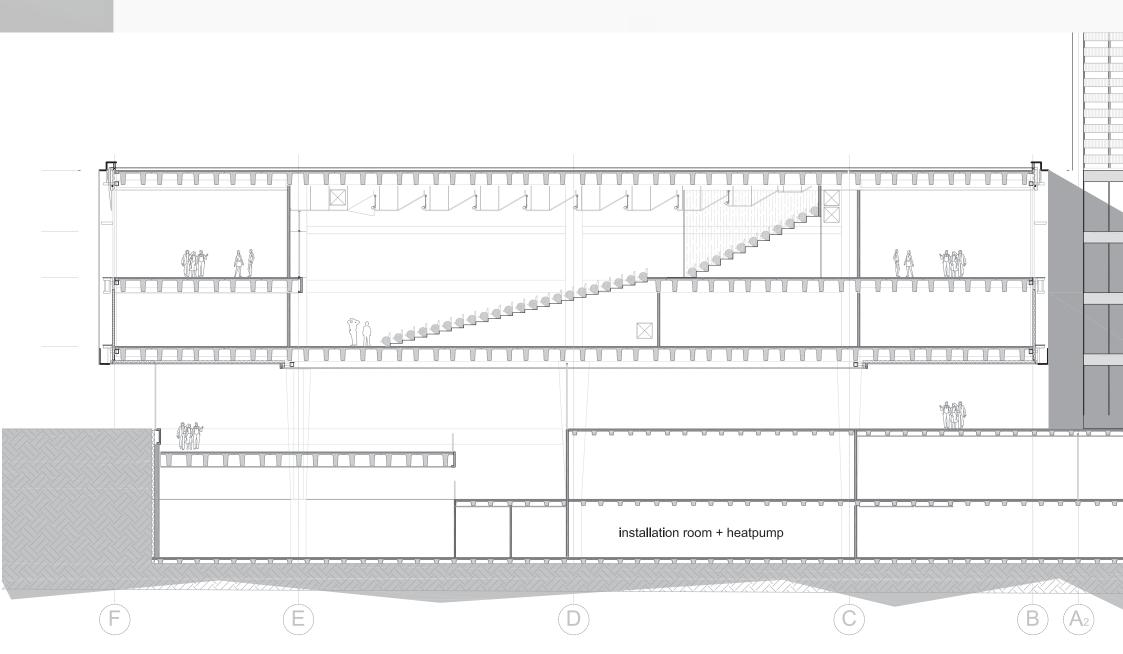




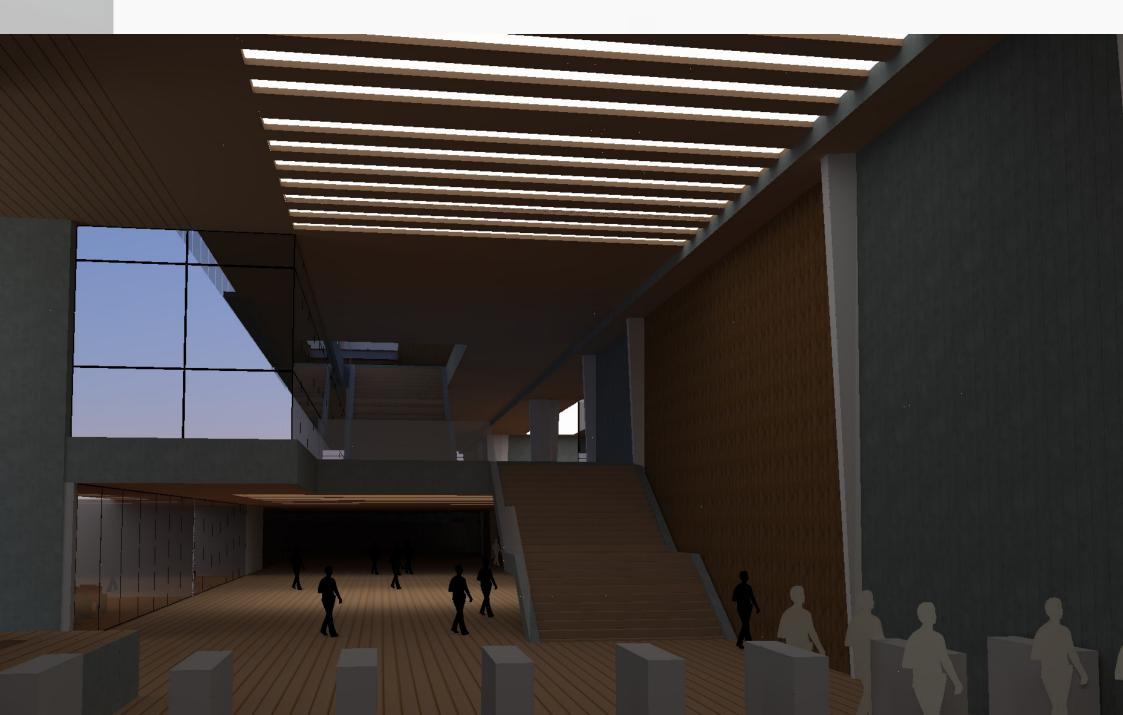
construction principle







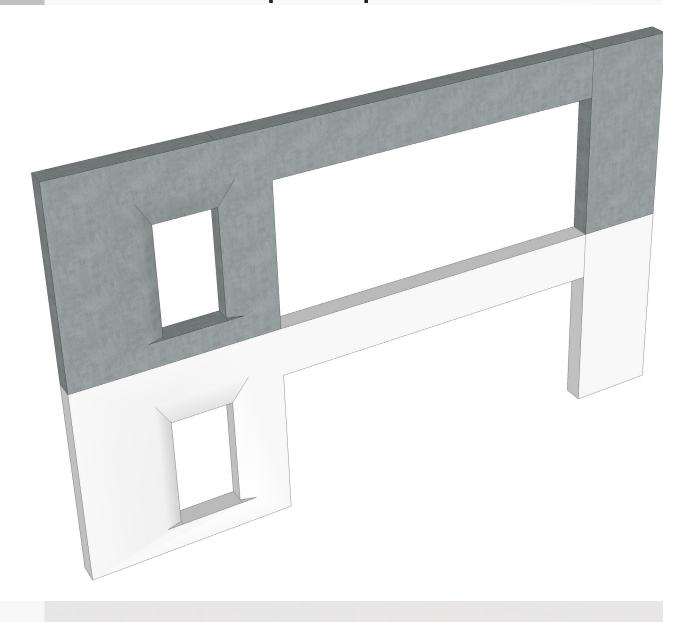


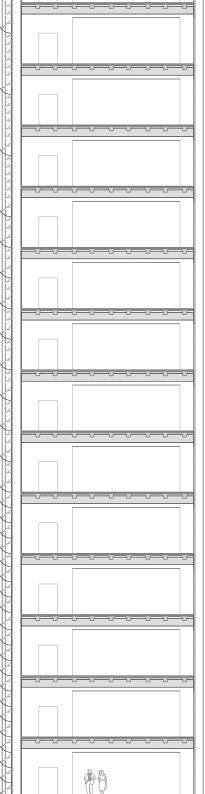






construction principle tower







impression open office floor



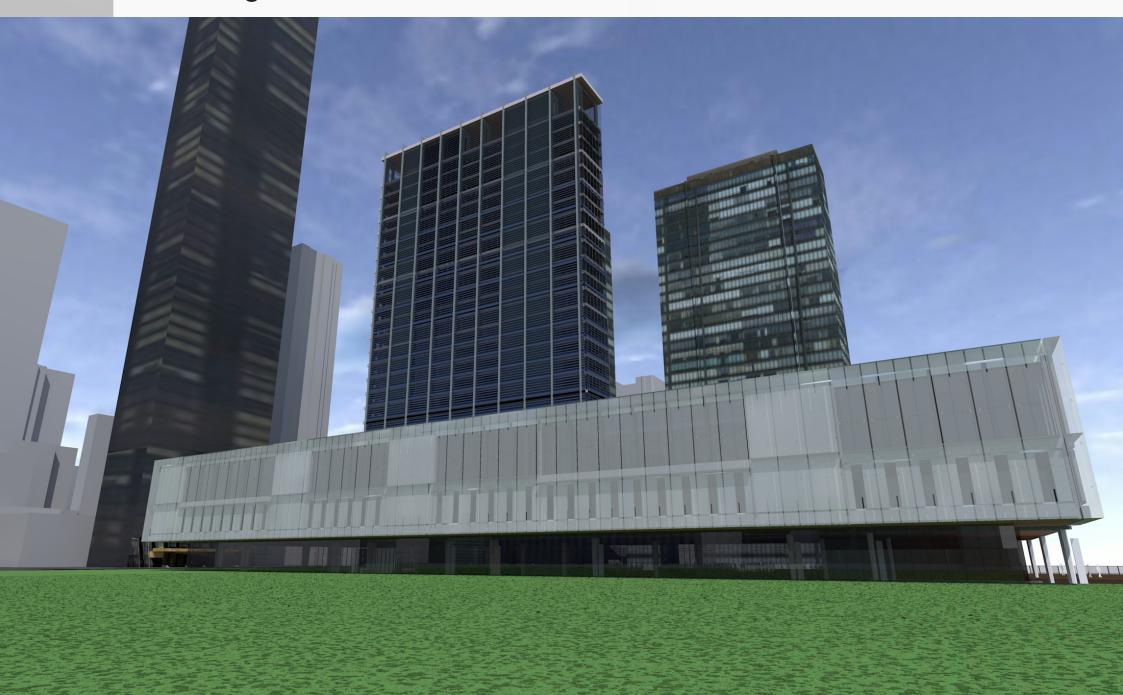


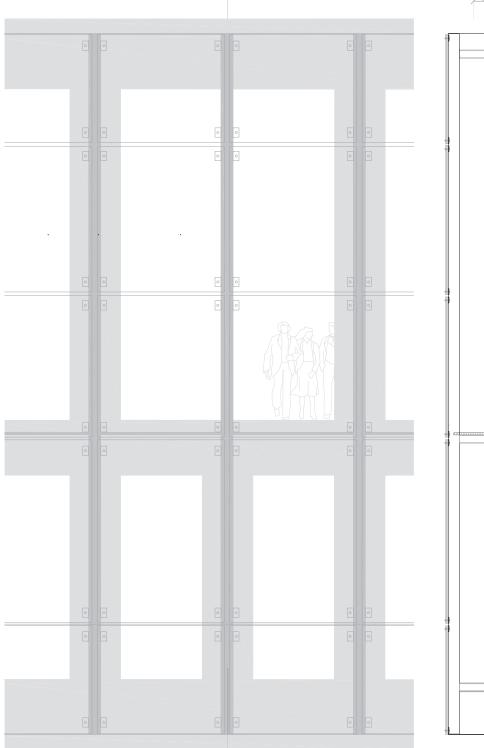
starting points of the facade

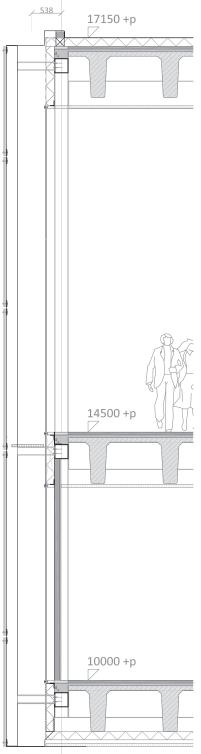
- diffuse light
- impression of the function behind the facade
- building should remain one volume/shape



diffuse light





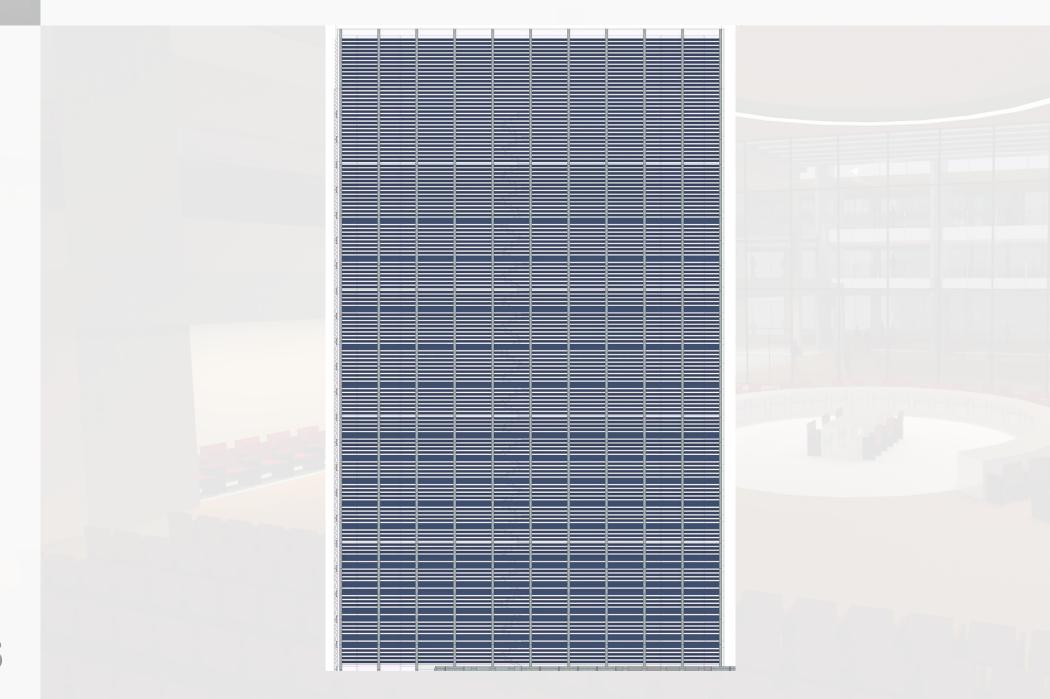




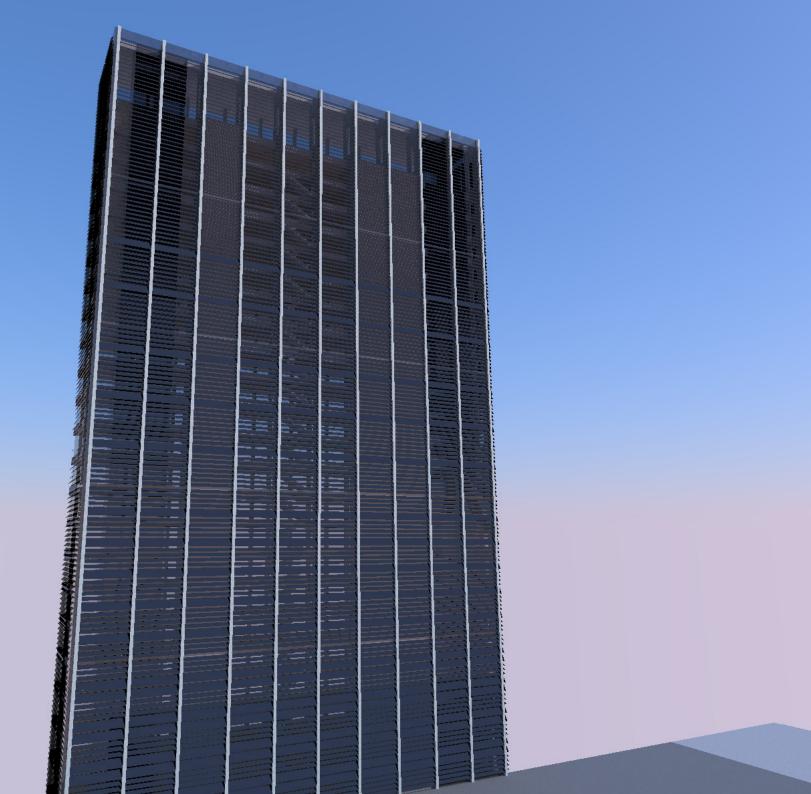
facade tower

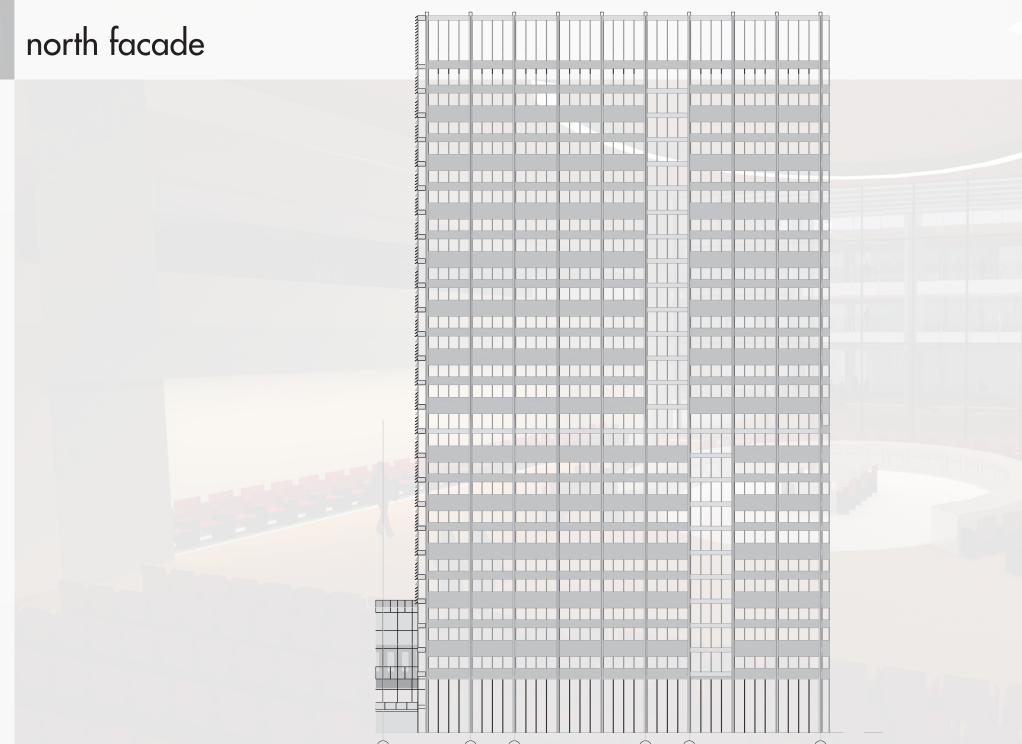
moving parts blocking view vulnerable



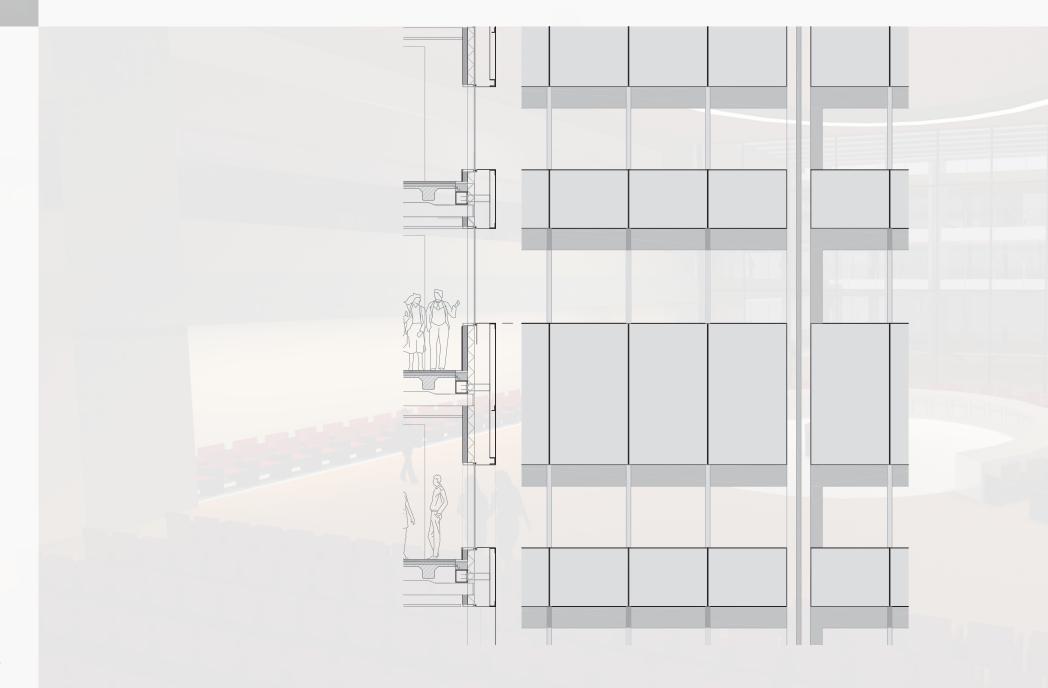














North facade tower





Questions?

