Assignment
Problem Statement
Design Brief
Situation

Urban design
Concept
New Situation

UNEC Building
Program
Concept
Design
Sustainability
Building Technology

Content
Environmental issues
A global governmental institutions is needed to solve these problems.
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United Nations
International organization which provides dialogue between the 193 members.
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New aim:
Facilitate cooperation in sustainable development.
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United Nations
International organization which provides dialoge between the 193 members.

New aim:
Facilitate cooperation in sustainable development.

Design Brief
Sustainable building for the new United Nations Environmental Council on the current UN Plot in Manhattan, New York.
International Court of Justice
General Assembly
Security Council
Economic & Social Council
Secretariat
THE HAGUE
MANHATTAN

Organisation United Nations
Manhattan UN Headquarter
Manhattan Comm
unity District 6
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W 39th ST
W 38th ST
W 37th ST
W 36th ST
W 35th ST
W 33rd ST
W 32nd ST
W 31st ST
W 30th ST
8th AVE
7th AVE
AVE of the Americas
Madison AVE
Lexington AVE
3rd AVE
2nd AVE
York AVE
5th AVE
Park
1st AVE
0 1 20.5
Commercial
warehouses and factories
Most of the industrial functions are situated at the southwest of this area.
Commercial use
Offices and Retail
Commercial functions are spread out over this area, but only a few situated along the coast.
Manhattan Commercial area & big transportation hubs
Assignment

Urban Design UNEC Building 14 / 101

Manhattan Building height & density
Manhattan Public parks, playgrounds and nature.
There is little city green in this area. On the south of UN plot, there is a large area of vacant land.

**Map of Manhattan Area: First Avenue and FDR drive**
There is little city green in this area.

On the south of UN plot, there is a large area of vacant land.
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UN Plot: Create pedestrian ring and green strip
Master plan of United Nations Plot
Materialisation Graduation Studio  SADD /  Msc3&4 / P1 Presentation

Section c-c
s1/200

Section b-b
s1/200

Section d-d
s1/200

Section e-e
s1/200

Section a-a
s1/200

Site Section B-B
s1/1000

Site Section A-A
s1/1000

UN Plot New situation
Master plan of United Nations Plot

Materialisation Graduation Studio  SADD /  Msc3&4 / P1 Presentation

Section c-c
Section b-b
Section d-d
Section e-e
Section a-a
Site Section B-B
Site Section A-A

UN Plot New FDR Drive tunnel
Users: Five groups of users

- Tourist
- Press
- Knowledge visitor
- Delegate
- Employee
### Entrance
- Entrance Hall: 400 m²
- Safety control: 150 m²
- Information Desk: 50 m²
- Card distribution: 50 m²
- Wardrobe: 60 m²
- Lockers: 80 m²
- Toilets: 30 m²
- Storage: 60 m²
- Offices: 50 m²
- **Subtotal**: 930 m²

### Collect
- Knowledge Centre: 600 m²
- Reading Room: 200 m²
- Wardrobe: 50 m²
- Toilets: 25 m²
- Offices: 800 m²
- **Subtotal**: 1,765 m²

### Propagate
- Press Room: 300 m²
- 1 Auditorium: 400 m²
- 2 Auditorium: 400 m²
- 1 Exposition Space: 400 m²
- 1 Shop: 100 m²
- 2 Bars: 100 m²
- 3 Toilet units: 75 m²
- Offices: 520 m²
- **Subtotal**: 3,545 m²

### Exchange
- Lobby (lobbies): 1,200 m²
- Information Desk: 20 m²
- Wardrobe: 100 m²
- 2 Toilets units: 60 m²
- Coffee/Bar: 150 m²
- Offices: 400 m²
- **Subtotal**: 3,330 m²

### General
- Offices: 420 m²
- 1 Workshop unit: 300 m²
- 1 Workshop unit: 120 m²
- 6 Meeting room: 420 m²
- 2 Meeting room: 400 m²
- Reproduction: 60 m²
- 5 Kitchens: 40 m²
- Archive: 700 m²
- 5 Toilets: 100 m²
- **Subtotal**: 2,680 m²

### Facilities
- Restaurant: 300 m²
- Kitchen: 200 m²
- Bar: 70 m²
- Storage: 200 m²
- Canteen: 250 m²
- Buffet: 80 m²
- Kitchen: 160 m²
- Storage: 80 m²
- Delegate Lounge: 500 m²
- Cleaning: 150 m²
- FM: 300 m²
- ICT: 200 m²
- Expedition (inside): 300 m²
- **Subtotal**: 2,790 m²

### Programm m²
**16,280 netto floor area**
<table>
<thead>
<tr>
<th><strong>Entrance</strong></th>
<th><strong>Collect</strong></th>
<th><strong>Propagate</strong></th>
<th><strong>Exchange</strong></th>
<th><strong>General</strong></th>
<th><strong>Facilities</strong></th>
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<td>Press Room</td>
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<td>2790 m²</td>
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</tbody>
</table>

**Tourist**

Exposition, shop and guided tour

1h Tourist
### Entrance
- Entrance Hall: 400 m²
- Safety control: 150 m²
- Information Desk: 50 m²
- Card distribution: 50 m²
- Wardrobe: 60 m²
- Lockers: 80 m²
- Toilets: 30 m²
- Storage: 60 m²
- Offices: 50 m²
- Subtotal: 930 m²

### Collect
- Knowledge Centre: 600 m²
- Reading Room: 200 m²
- Wardrobe: 50 m²
- Lockers: 50 m²
- Toilets: 25 m²
- Offices: 800 m²
- Subtotal: 1765 m²

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</tbody>
</table>

### Propagate
- 8 Brainstorm rooms: 240 m²
- Offices: 1000 m²
- Subtotal: 1240 m²

### Exchange
- Lobby (lobbies): 1200 m²
- Council chamber: 1400 m²
- Press Rooms: 300 m²
- Press Rooms: 300 m²

### General
- Offices: 420 m²
- 1 Workshop unit: 300 m²
- 1 Workshop unit: 120 m²
- 2 Meeting room: 400 m²
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- Reproduction: 60 m²
- Archive: 700 m²
- 5 Toilets: 100 m²
- Subtotal: 2680 m²

### Facilities
- Restaurant: 300 m²
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- Buffet: 80 m²
- Kitchen: 160 m²
- Storage: 80 m²
- Delegate Lounge: 500 m²
- Cleaning: 150 m²
- FM: 300 m²
- ICT: 200 m²
- Expedition (inside): 300 m²

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- ICT: 200 m²
- Expedition (inside): 300 m²

### Press
- Press rooms and Council Chamber on intivation
<table>
<thead>
<tr>
<th><strong>Entrance</strong></th>
<th><strong>Collect</strong></th>
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<tr>
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<td>Knowledge Centre 600 m²</td>
<td>Press Room 300 m²</td>
<td>Lobby (lobbies) 1200 m²</td>
<td>Offices 420 m²</td>
<td>Restaurant 300 m²</td>
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<td>Kitchen 200 m²</td>
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<td>Auditorium 600 m²</td>
<td>Council chamber 1400 m²</td>
<td>Workshop unit 120 m²</td>
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<td>Wardrobe 50 m²</td>
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<td>Lockers 50 m²</td>
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<td>Expedition (inside) 300 m²</td>
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Subtotal 1765 m²
Subtotal 3330 m²
Subtotal 1765 m²

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<tr>
<th><strong>Produce</strong></th>
<th><strong>Subtotal</strong></th>
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<tr>
<td>8 Brainstorm rooms 240 m²</td>
<td>3545 m²</td>
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- Kitchen: 200 m²
- Bar: 70 m²
- Storage: 200 m²
- Canteen: 250 m²
- Buffet: 80 m²
- Kitchen: 160 m²
- Storage: 80 m²
- Delegate Lounge: 500 m²
- Cleaning: 150 m²
- FM: 300 m²
- ICT: 200 m²
- Expedition (inside): 300 m²
- **Subtotal:** 2790 m²

### Produce
- 8 Brainstorm rooms: 240 m²
- Offices: 1000 m²
- **Subtotal:** 1240 m²

---

Delegates: Council Chamber, restaurant, Delegates lounge
<table>
<thead>
<tr>
<th>Entrance</th>
<th>Collect</th>
<th>Propagate</th>
<th>Exchange</th>
<th>General</th>
<th>Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entrance Hall</td>
<td>Knowledge Centre</td>
<td>Press Room</td>
<td>Lobby (lobbies)</td>
<td>Offices</td>
<td>Restaurant</td>
</tr>
<tr>
<td>400 m²</td>
<td>600 m²</td>
<td>300 m²</td>
<td>1200 m²</td>
<td>420 m²</td>
<td>300 m²</td>
</tr>
<tr>
<td>Safety control</td>
<td>Information Desk</td>
<td>Press Room</td>
<td>Information Desk</td>
<td>1 Workshop unit</td>
<td>Kitchen</td>
</tr>
<tr>
<td>150 m²</td>
<td>40 m²</td>
<td>90 m²</td>
<td>20 m²</td>
<td>300 m²</td>
<td>200 m²</td>
</tr>
<tr>
<td>Information Desk</td>
<td>Reading Room</td>
<td>1 Auditorium</td>
<td>Council chamber</td>
<td>1 Workshop unit</td>
<td>Bar</td>
</tr>
<tr>
<td>50 m²</td>
<td>200 m²</td>
<td>600 m²</td>
<td>1400 m²</td>
<td>120 m²</td>
<td>70 m²</td>
</tr>
<tr>
<td>Card distribution</td>
<td>Wardrobe</td>
<td>1 Auditorium</td>
<td>Wardrobe</td>
<td>2 Meeting room</td>
<td>Storage</td>
</tr>
<tr>
<td>50 m²</td>
<td>50 m²</td>
<td>400 m²</td>
<td>100 m²</td>
<td>400 m²</td>
<td>200 m²</td>
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<tr>
<td>Wardrobe</td>
<td>Lockers</td>
<td>2 Auditorium</td>
<td>2 Toilets units</td>
<td>6 Meeting room</td>
<td>Canteen</td>
</tr>
<tr>
<td>60 m²</td>
<td>50 m²</td>
<td>400 m²</td>
<td>60 m²</td>
<td>420 m²</td>
<td>250 m²</td>
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<tr>
<td>Lockers</td>
<td>Toilets</td>
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<td>Coffee/Bar</td>
<td>3 Video conference</td>
<td>Kitchen</td>
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<td>25 m²</td>
<td>160 m²</td>
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</tr>
<tr>
<td>Toilets</td>
<td>Offices</td>
<td>1 Exposition Space</td>
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<td></td>
<td>Storage</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>80 m²</td>
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<td>Storage</td>
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<td>Buffet</td>
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<td>60 m²</td>
<td></td>
<td>400 m²</td>
<td></td>
<td></td>
<td>80 m²</td>
</tr>
<tr>
<td>Offices</td>
<td></td>
<td>1 Shop</td>
<td></td>
<td></td>
<td>Kitchen</td>
</tr>
<tr>
<td>50 m²</td>
<td></td>
<td>100 m²</td>
<td></td>
<td></td>
<td>160 m²</td>
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<tr>
<td>Subtotal</td>
<td>930 m²</td>
<td>3 Toilet units</td>
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<td>Delegate Lounge</td>
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<td></td>
<td></td>
<td>500 m²</td>
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<tr>
<td></td>
<td></td>
<td>Offices</td>
<td></td>
<td></td>
<td>Cleaning</td>
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<tr>
<td></td>
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<td>520 m²</td>
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<td></td>
<td>150 m²</td>
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<tr>
<td>Produce</td>
<td>8 Brainstorm rooms 240 m²</td>
<td>Subtotal</td>
<td></td>
<td></td>
<td>FM</td>
</tr>
<tr>
<td></td>
<td>Offices 1000 m²</td>
<td>3545 m²</td>
<td></td>
<td></td>
<td>300 m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Subtotal</td>
<td></td>
<td></td>
<td>ICT</td>
</tr>
<tr>
<td></td>
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<td>2680 m²</td>
<td></td>
<td></td>
<td>200 m²</td>
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<tr>
<td></td>
<td></td>
<td>Subtotal</td>
<td></td>
<td></td>
<td>Expedition (inside)</td>
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<tr>
<td></td>
<td></td>
<td>2790 m²</td>
<td></td>
<td></td>
<td>300 m²</td>
</tr>
</tbody>
</table>

**Employees** Offices, conference area and facilities

**Assignment** Urban Design

**UNECA Building**
Complex usage

- **Tourist**: 1h
  - Existing buildings
  - Shop
  - Exposition
  - Council Chamber
  - Auditoria
  - Library
  - Press Rooms

- **Press**: 3h
  - Offices
  - Meeting Rooms
  - Building facilities

- **Knowledge visitor**: 6h
  - Council Chamber
  - Auditoria
  - Library
  - Press Rooms

- **Delegate**: 9h
  - Council Chamber
  - Auditoria
  - Library
  - Press Rooms

- **Employee**: 9h
  - Council Chamber
  - Auditoria
  - Library
  - Press Rooms
UNECC Strong existing composition
Connect the program
Tilting walls and roof
UNC Council Chamber visible and framed by walls and roof
UNECE Reuse former FDR drive tunnel
UNECE Office wings connect with tunnel
UNECD Preserve podium
Use the sun
Use the wind
Situation (1:1000)

Visitors area

View from the UN plaza on the United Nations complex (position 1)

Lobby underneath the Council Chamber

View from the UN plaza on the United Nations Entrance (position 2)

Bridge towards the Council Chamber

View from the podium to the new UNEC building (position 3)

One UN complex

Connect with existing buildings

Sustainable building

Flexible spaces

Reuse

Iconic

Use local climate

Architectural point of departure

Sustainable point of departure

Library

UNEC Offices

BUS

Car entrance

Employee

Delegates

Visitor

General Assembly Building

Congress Building

UN Plaza

Secreteriat Building

Congress Building

UN Plaza

UN Plot

New situation
View on the new UN plot
Visitors entrance
Assignment: Urban Design

UNEC Building

Visitors Area

UNEC visible
Floorplan -2 Knowledge Center and Press area
Delegates bridge over visitors area
View on the UNEC Council visible from outside
Greek Temples
Spaces to make sacrifices
UNECC Lobby with council temple
Lobby Route towards the Council Chamber
Floorplan - 1 Employee Entrance
Floorplan - 1 Space for sustainable use or future development
Floorplan - 2 Offices & restaurant with view over East River
Office Passive energy saving & maximum view
Office Low temperature heating & high temperature cooling in floor and ceiling
Heat and cold storage: Artificial aquifer in former FDR tunnel
Conference area Climate facade and ventilation wing
Conference area: Maximum daylight entry
Conference area PCM enhanced concrete
Front facade (South)
Front facade Climate facade with maximum view inside
Front facade Ventilation wing
Front facade Council room framed and maximum visible
Side facade Extra wide construction
Side facade Reference: Uytenhaak Architecten, RUG Groningen
Connection front & side facade
Corner detail
View on council framed by ventilation wing and side walls
The new United Nations

Thank you!
Kokerprofiel 200 mm
T-profiel 6 mm
Sandwichpaneel 120 mm
Composiet gevelelement 10 mm

Staal constructie 400 mm
Staalplaat versteveging
Hoek element sandwich paneel
Hoek element gevel paneel

Bevestigingselement
Glaspaneel

Kokerprofiel 200 mm
T-profiel 6 mm
Sandwichpaneel 120 mm
Composiet gevelelement 10 mm

Tegel
Tegelhouder
Watervoordeende laag
Hard isolatie 150 mm
Dampremmende laag
Breedplaatvloer 300 mm

Vocht & tocht afdekking
Bevestiging sandwichpaneel & gevelpaneel

Dakbedekking
Hard isolatie
Sandwichpaneel 120 mm
T-profiel 6 mm
T-profiel 6 mm
Sandwichpaneel 120 mm
Composiet gevelelement 10 mm

Detail V1 - 1:5 - Dakrand
Detail V2 - 1:5 - Composiet wand Aanzicht wand - 1:5 - Composiet wand
Detail V3 - 1:5 - Aansluiting wand - vloer
Detail H1 - 1:5 - Hoek zij/voor gevel
Detail V7 - Daklicht

- Dakbedekking
- Isolatie
- Staalplaatbeton dak
- Dakbedekking Daklicht
- Bevestigingselement

Veiligheidsglas
Buisprofiel 300 mm
Begroeiing 150 mm