**A. INTRODUCTION**
- fascination
- study area
- project description
- problem statement
- framework

**B. RESEARCH**

**C. DESIGN**

**AGENDA of TODAY**

STRUCTURE OF MY THESIS
natural spaces, the small architectural object,

and thinking about the wellbeing of people
GEMEENTEMUSEUM, THE HAGUE
HENDRIK PETRUS BERLAGE

TOTAL ART: SYMMETRY, PROPORTION, RHYTHM

MASS, RELIEF EN SILHOUETTE

ESTHETIC USE OF MATERIALS

TRANSITION BETWEEN STREET AND MUSEUM, SLOWING DOWN...
A DEPENDANCE + ITS PUBLIC SPACE AROUND THE HAGUE CENTRAL STATION
LIFE (ACTIVITY) AROUND THE HAGUE CS IS HAPPENING WITHIN AN OUTDOOR CLIMATE

THE OUTDOOR CLIMATE CAN BE ‘INFLUENCED‘ WITH SHADING, VEGETATION AND WATER AROUND THE BUILDINGS
FOCUS OF RESEARCH

habitable space provides

1. thermal comfort
2. visual comfort
3. acoustic comfort

related to the human use

ORIGINAL BY S. LENZKOLZER (2010), EDITOR BY AUTHOR (2011)
1. HABITABILITY

2. SHORT DURATION ACTIVITIES AND FLOWS
WHAT AND WHERE?

Moving

Activity

Action

< 3 min.

Waiting

Time

2 - 15 min.

Staying

> 15 min.
HOW TO IMPROVE THE HABITABLE CONDITIONS AROUND THE HAGUE CENTRAL STATION?

- What are the preferred characteristics of urban interior settings, micro-climates and health?

- Which architectural instruments can be applied which contribute to a micro climate responsive system?
B. RESEARCH

- methodology
- field observation
- analysis
- project strategy
METHODOLOGY

EXAMPLE

- REFERENCES

- FIELD TRIPS

- FIELD OBSERVATION

DESIGN GUIDELINES

DESIGN PREFERENCES

DESIGN CRITERIA

LOCATION + KOOLHAAS' PROPOSAL

CAFE ENGELBECKEN, BERLIN

PATIO OF THE COURTHOUSE, GAND
### OBSERVATION

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<table>
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<tr>
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<tbody>
<tr>
<td><strong>1. MAJORITY IN PAVEMENT AND STONE, LACK OF GREENERY</strong></td>
<td><strong>ENHANCE ROUTING</strong></td>
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<td><strong>2. NO POSSIBILITY TO CHOOSE IN SHELTER OR ROUTE</strong></td>
<td><strong>RELOCATE ENTRANCES</strong></td>
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<td><strong>3. JUNCTION POINT OF MANY FLOWS</strong></td>
<td><strong>ADD PUBLIC AMENITIES</strong></td>
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<td><strong>4. NO FACILITIES AND AMENITIES TO STAY OR WAIT OUTSIDE</strong></td>
<td><strong>IMPROVE MICROCLIMATE</strong></td>
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<td><strong>5. UNCLEAR CONNECTION TO LEISURE FACILITIES</strong></td>
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PROJECT PROPOSAL

LEGENDA
- ENFORCED AROUND THE CORNER ON GROUND LEVEL
- PROPOSAL
- WIND FREE ZONE / HITS THE GROUND
- SOUTH-WEST WIND

PROJECT PROPOSAL

EXISTING BUILDING (HIGHRISE 60M.) + INTERVENTION (LOWRISE 15M.) = STREET + SQUARE
MICRO-CLIMATE PROPOSAL

PLACEMENT OF DIFFERENT TYPES / HEIGHTS OF PLANTATION IMPROVES MICROCLIMATE

01. ADDITION TO BLIND WALL BREAKS DOWN WINDS
02. IMPROVES ROUTES THROUGH STREET

01. TWO LEVELS THROUGH "GATE" INTRODUCES HUMAN SCALE
02. ADD BUILDING ROUGHNESS (DETAIL) FOR BRAKING WIND

BIKE PARKING
I. LINE
IN LANDSCAPE

II. THRESHOLD
OF STREET AND SQUARE

III. DETAILS
OF LINE AND THRESHOLD

DESIGN PRINCIPLES
TECTONIC FIELD

NATURAL CONDITIONS

MATERIALS WITH TEXTURE TO TOUCH
FINENESS IN DETAILS

MASS, RELIEF EN SILHOUETTE

USE OF ROBUST MATERIALS

TRANSITION BETWEEN CITY AND STATION, SLOWING DOWN...
C. Tectonic Field

concept
routing
microclimate
design (images and plans)
VIEW INTO RIJNSTRAAT
TRANSITION IN-BETWEEN STREET AND SQUARE
CONNECTING THE PARTS
MEETING PLACE
SUN > 90%

MEETING PLACE
SHADOW = 50%

WAITING AT WATER
SUN > 80%

ROUTE SHELTERED
WIND < 50%,
SUN > 80%
MEETING PLACE / BAR
SUN > 90%

ROUTE SHELTERED
WIND < 20%,

‘INDOOR’ LIFE
PLACES IN SUN | SHADOW | WIND - SEPTEMBER 21
CREATE POCKETS WITH DECIDUOUS SHADE TREES, IN COMBINATION WITH WATER NEAR THE BUILDING

KJ SQUARE
MEETING PLACE ALONG PROMENADE

ESTABLISH INDOOR AND OUTDOOR RELATION AS EXTENSION OF OUTDOOR SPACE
PROMENADE FROM STATION

COMBINATION BETWEEN ENCLOSED AND OPEN SPACE
THE DEPENDANCE AS A QUIET PLACE ABOVE A BUSY WORLD
FORMING A GRAPHIC PATTERN, WITH RHYTHMICALLY PLACED BREAKS IN THE FAÇADE

RHYTHM AND DETAIL, IT IS CRUCIAL FOR THE OVERALL DESIGN
THANK YOU ALL!

GRACIAS A TODOS
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MICRO-CLIMATE & COMFORT

SUMMER

PEDESTRIAN ROUTE
OUTSIDE STATION
MICRO-CLIMATE CONTEXT

South West Wind is being enforced by:

01. Small opening

02. The orientation of the facade, the wind is squeezed and bounced

Intervention:

Place deciduous trees on SW

SW Wind
21.06
1 PM