



The library - a catalyst for urban development.

Reshape, refurbish, reorganise - rethink!

Liber architectural seminar - Præsentation 18.04.2012 -

Helle Juul, Architect MAA, Ph.D, CEO JUULFROST Architects Copenhagen



The library - a catalyst for urban development.

1. Role of the future library -

2. Learning from cities, universities, users - in change

3. Rethink the learning library



Moving Media City, Malmö



Royal Copenhagen, Frederiksberg



Bøgebakken - new housing area, Værløse



Grønttorvet - new district, Valby

1. House + Housing

2. City + Space + Landscape

3. Research + Communication

JUUL | FROST

ARCHITECTS

Staff competences

urban planners

architects

landscape architects

constructing architects

Ph.D programme

Communication manager

architecture interns

accounting/administration

Secretary

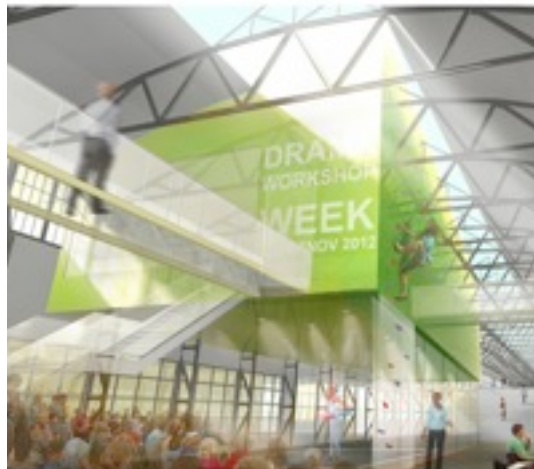
27 people



Risø DTU



DTU, Campus Lyngby



UCC Professionshøjskolen



Quarter Paradis - Lund



Campus Development Lund Uni.



Ørebro

- 1. House + Housing
- 2. City + Space + Landscape**
- 3. Research + Communication

Staff competences

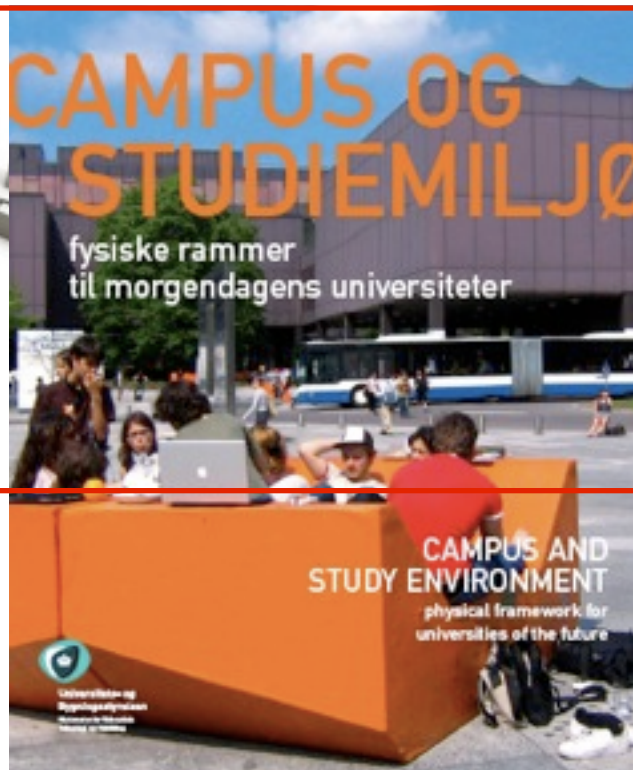
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ARCHITECTS

1

2



BYENS RUM

BYENS RUM

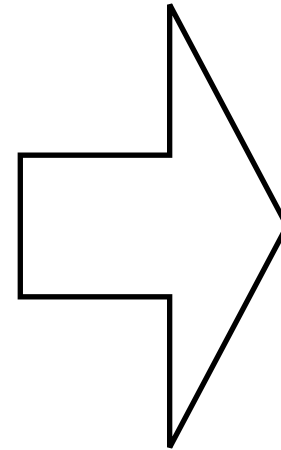
JUULFROST

ARKITEKTER

1. House + Housing
2. City + Space + Landscape
3. Research + Communication



Denkmal Bebelplatz, Humboldt



Seattle Library

Prag - Liber 2012

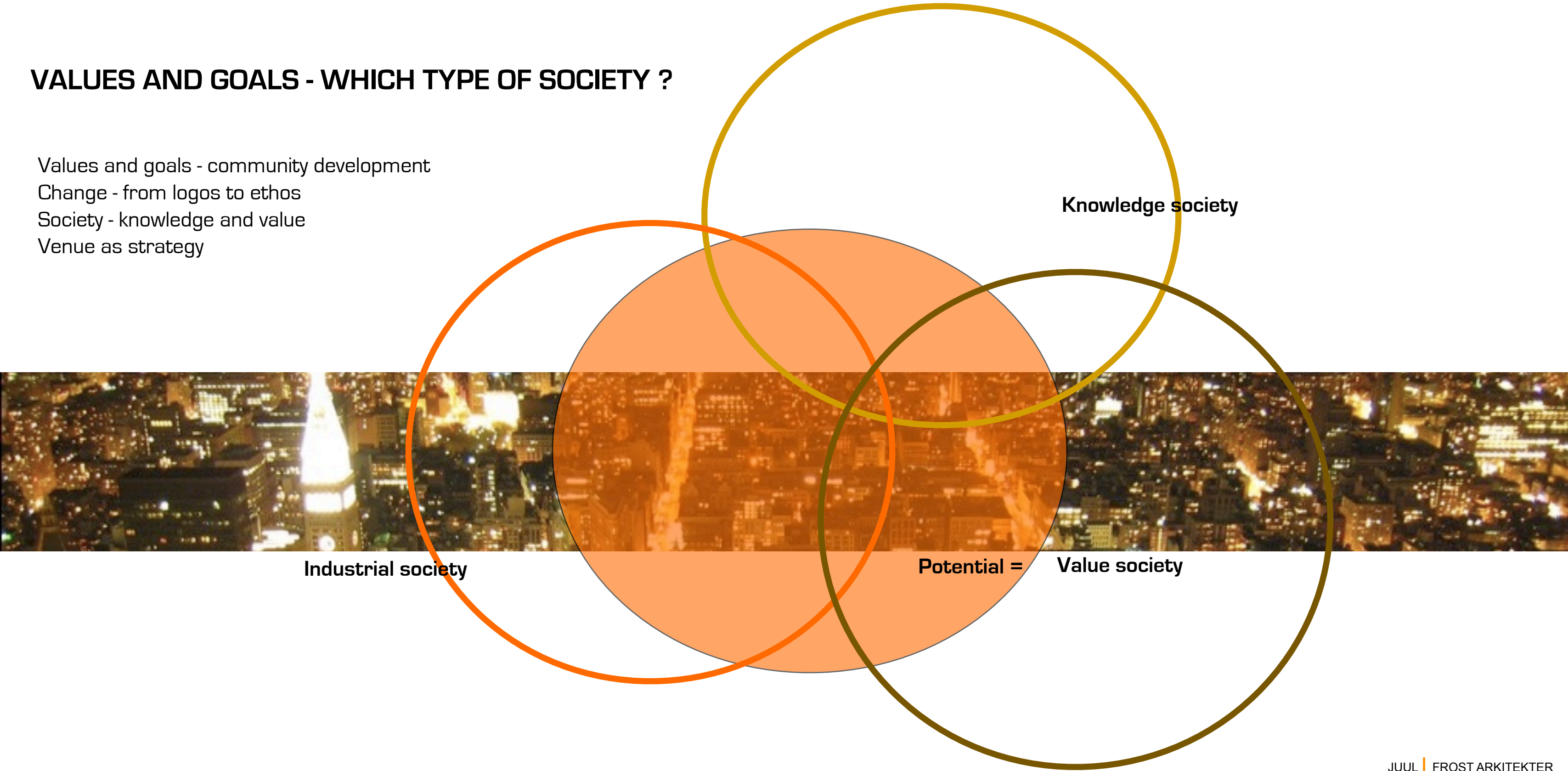
Helle Juul, Architect MAA, Ph.d, CEO JUULFROST ARCHITECTS Copenhagen



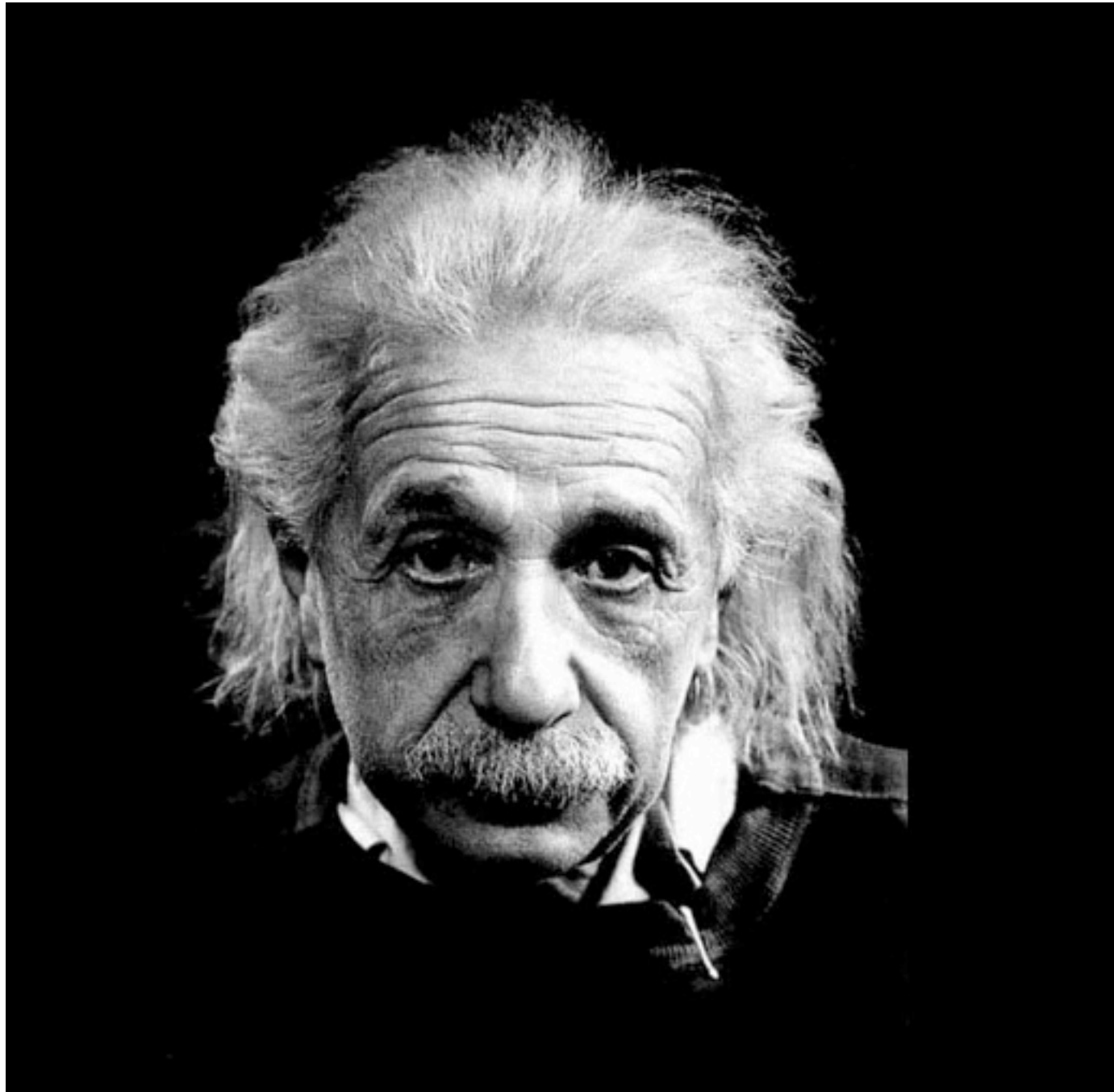
2_ KNOWLEDGE CITIES - change as conditions

VALUES AND GOALS - WHICH TYPE OF SOCIETY ?

Values and goals - community development
Change - from logos to ethos
Society - knowledge and value
Venue as strategy



TOMORROWS SPACE OF KNOWLEDGE - the user perspective



"I never teach my pupils;
I only attempt to provide the conditions in which they
can learn".
- Albert Einstein

TOMORROWS KNOWLEDGE SPACE



STAND



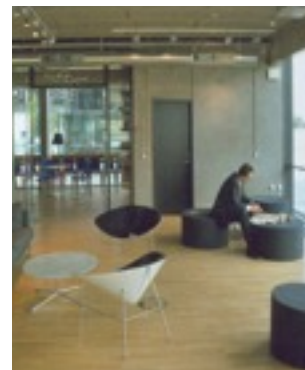
MOVEMENT

Gangareal



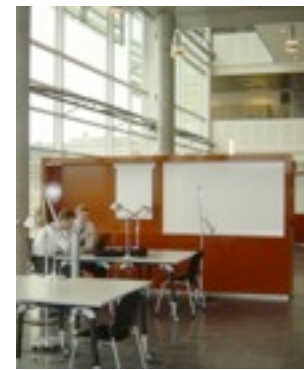
RELAX

Loungezoner
Stillerum
udezoner



WORK

Stillerum
Cell
Auditorium
EDB-Lab



EXCHANGE

X-punkter:
Formelt
Uformelt



PLAY

Chill-outzoner
udezoner



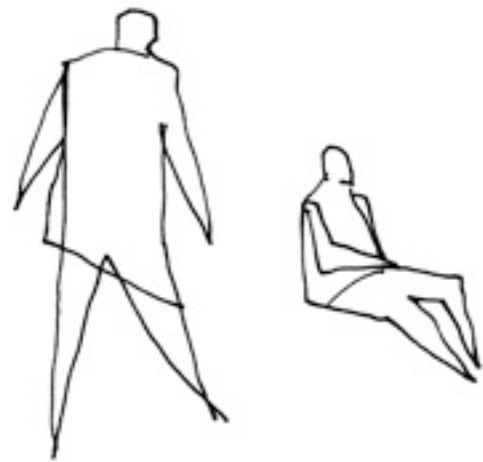
TOMORROWS KNOWLEDGE SPACE

From monofunctionality to
- new learning processes, new
forms of cooperations, lifelong learning,
distance learning –



TOMORROWS KNOWLEDGE SPACE

Reflect the surrounding community - learning takes place in many spaces, impermanence and randomness unplanned recording.



TOMORROWS KNOWLEDGE SPACE

formal - the informal?
the social?
movement?
stay?
diversity?
individual?
culture?
break?

SPACE FOR ...

the quiet life?
lively?
innovate?
it changing?
traditional?
the experimental?





3_ LIBRARY - RE-THINK

- LEARNING FROM

LEARNING FROM CITIES

BARCELONA

Cultural Planning

Barcelona har igennem de sidste årtier gjort sig bemærket ved hjælp af "kulturel planlægning": en satsning på kultur, arkitektur og gode urbane rum som generatorer for udviklingen af byen. Blandt mange projekter skal nævnes "22@" - et ambitiøst ønske om et nyt bykvarter der kan markere Barcelona i en vidensbaseret verden. Her er det intentionen at lokale universiteter skal have "plug outs".

STOCKHOLM

The Knowledge City - Bio Research City

Denne lokale forskningsalliance – bestående af Karolinska Institutet, det Kongelige tekniske Institut og Stockholms Universitet, har til hensigt at bygge en platform for tværfaglige bio-videnskabelige forskningsmiljøer. (www.vetenskapsstaden.se)

TRONDHEIM

Densifying and Intensifying Education

Trondheim forsøger, i kampen for at opretholde sin førende norske uddannelsesposition, at intensivere og fortætte sin uddannelsesmuligheder, og derved markere sig selv som videnby. Dette sker i tæt samarbejde med "Norges teknisk-naturvidenskabelig Universitet" i Trondheim.

MANCHESTER

From Industrialism to Knowledge City

Som andre postindustrielle byer har Manchester gennemgået en rivende byudvikling med fokus på omdannelsen af gamle industriområder til attraktive moderne (by)rum med en blanding af beboelse og erhverv. Ikke kun en opprioterung af lokale uddannelsesinstitutioner skal gøre Manchester til en moderne videnby, men også satsninger som bl.a. vært for Commonwealth legene i 2002 (sport city) har været med til at brande byen.

BOSTON

Knowledge City pr. Excellence

Boston er kendetegnet ved en helt særlig grad af vidensintensitet. Med sine otte forskningsuniversiteter tiltrækker Boston virksomheder der satser på forskning og viden.

LYON

Urban Space Policies

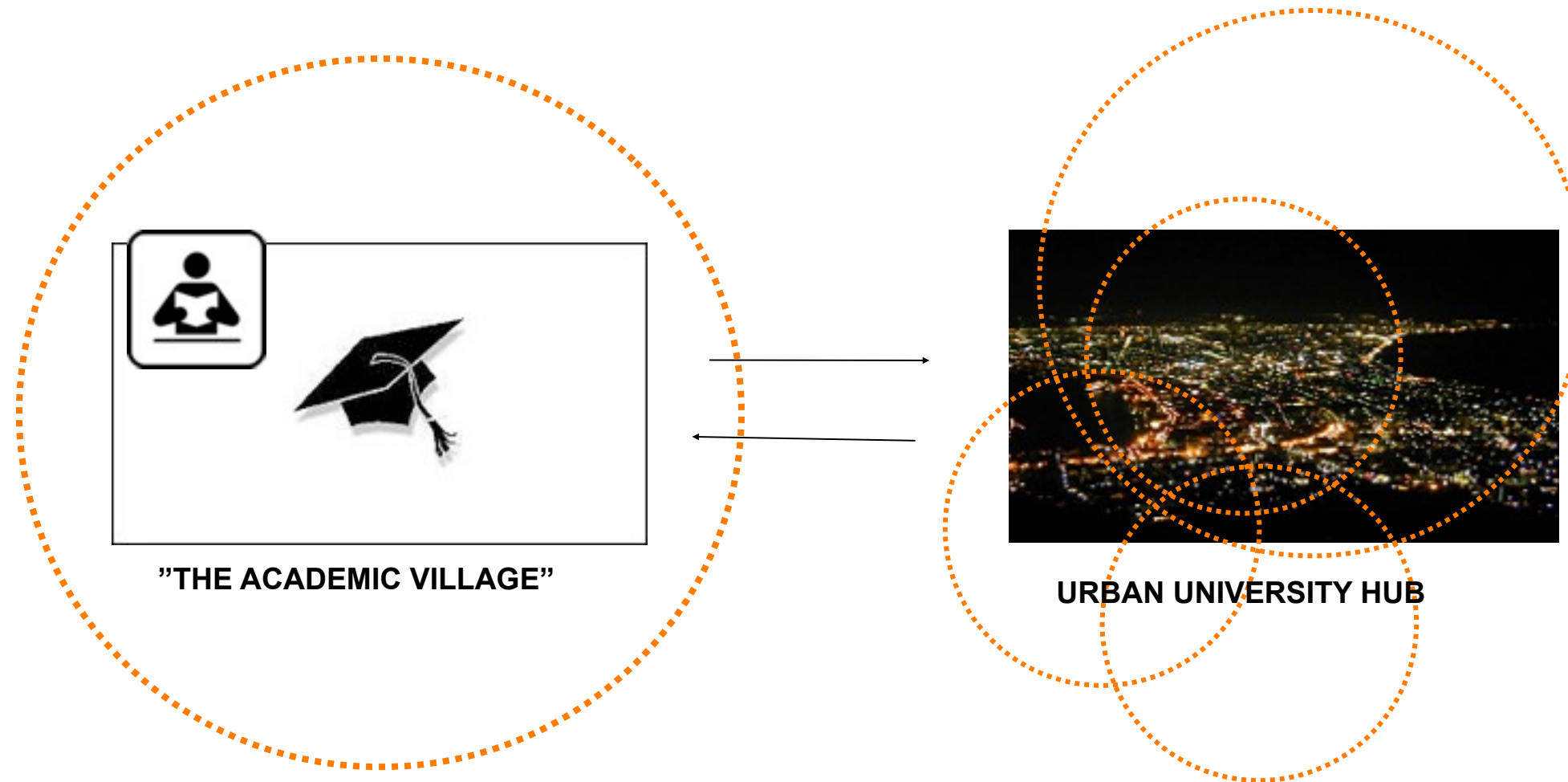
Lyon har gennem en bevidst byrumspolitik indsats forvandlet gamle industrielle områder til nutidige poetiske kvarterer og rum til gavn for byens borgere. Dette er foregået under mottoet "en bedre by for alle". Således har der siden 1980'erne været gennemført flere hundrede byrums-projekter, suppleret af kulturelle tiltag, i forsøget på at gøre Lyon til en helt særlig by. Omdannelsen af gamle tobaksbygninger til brug for Lyon Universitet 3 er et tydeligt billede på denne politik.

KNOWLEDGE
BRAND
CULT(URE) CITY

LEARNING FROM UNIVERSITIES

Future proofing - new challenges - fusion

Client: The danish university and property agency



METHOD: the user perspective

1. Functional needs



2. Social needs

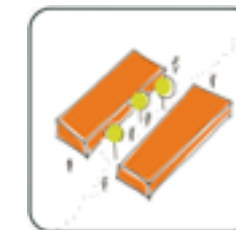


3. Learning needs



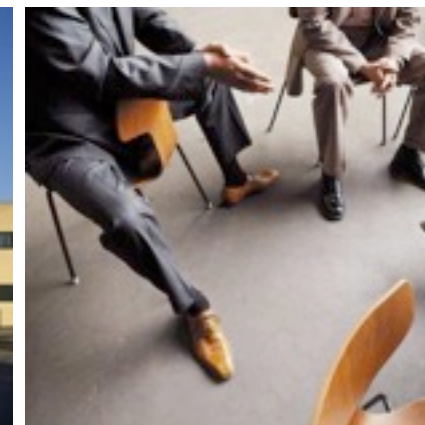
4. Urban needs





1. FUNCTIONAL, PHYSICAL NEEDS

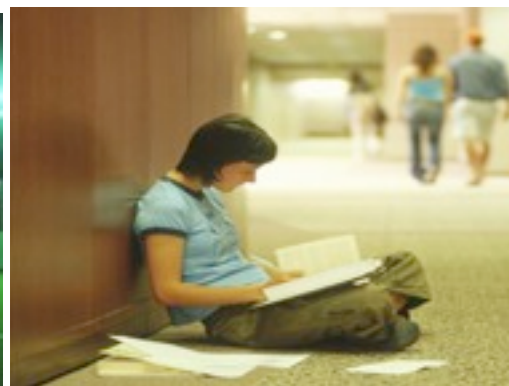
campus-area location - urban, semiurbant or landscape
campus area housing structure
campus area and programmatic distribution
the spatial use of each building





2. SOCIAL NEEDS

diversity and complexity
density and intensity
public sphere - private spaces
spaces for the unexpected, the futility and the many possibilities





3. LEARNING NEEDS

traditional learning environments
project-oriented learning environments
artistic learning environments





4. URBAN NEEDS

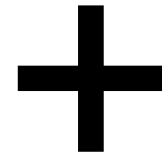
Urban, semi-urban or landscape
pitches, lawns, streets, alleys and streets on campus
context - surrounding buildings
arrival and transition - well defined or overlooked (flows and exchange)



To-days challenge - Monofunctionality



Functionally divided cities



Monofunctional teaching machines

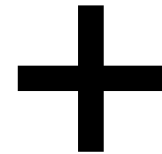


Challenge

- Monofunctionality



Functionally divided cities



Monofunctional teaching machines



= to many years of study and to little personal challenge

Challenge

- Exchange with the surroundings



+



+



=

a world of meeting places

new ways of learning, working

networks and hybrids

Challenge

- Exchange with the surroundings



+



+



=



a world of meeting places

new ways of teaching

networks and hybrids

POTENTIALS !!!

CAMPUS - what is ?

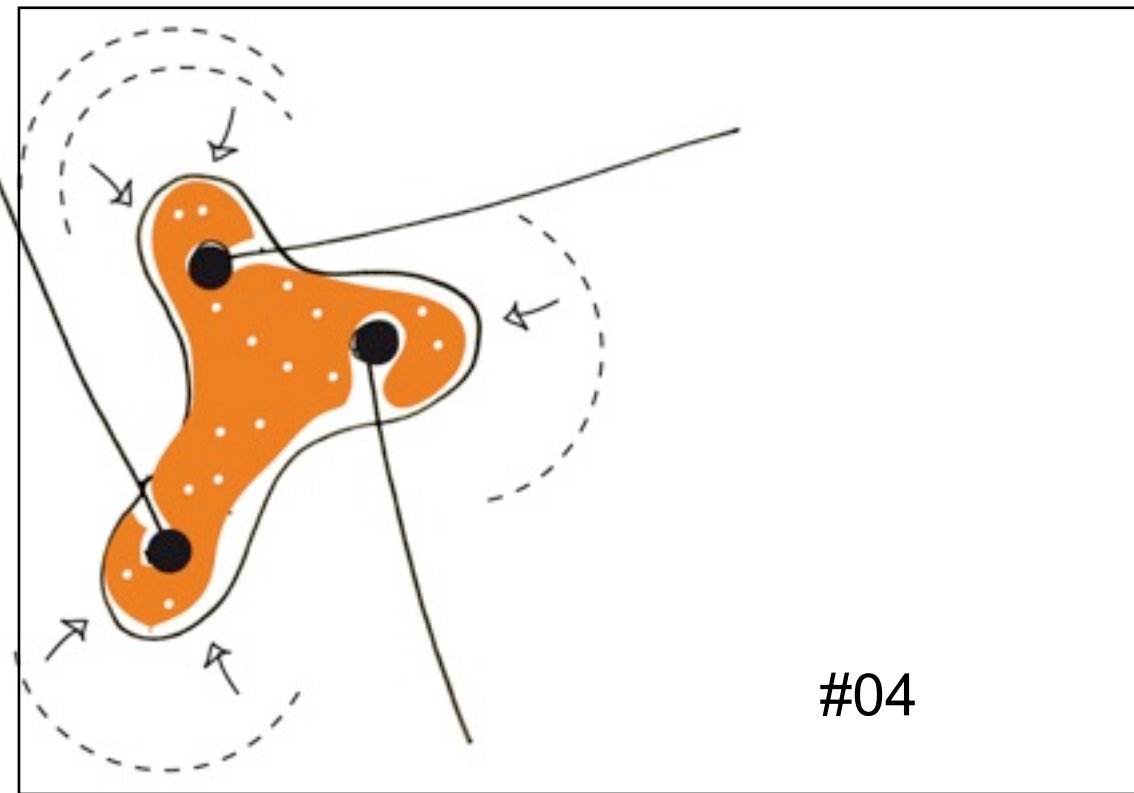
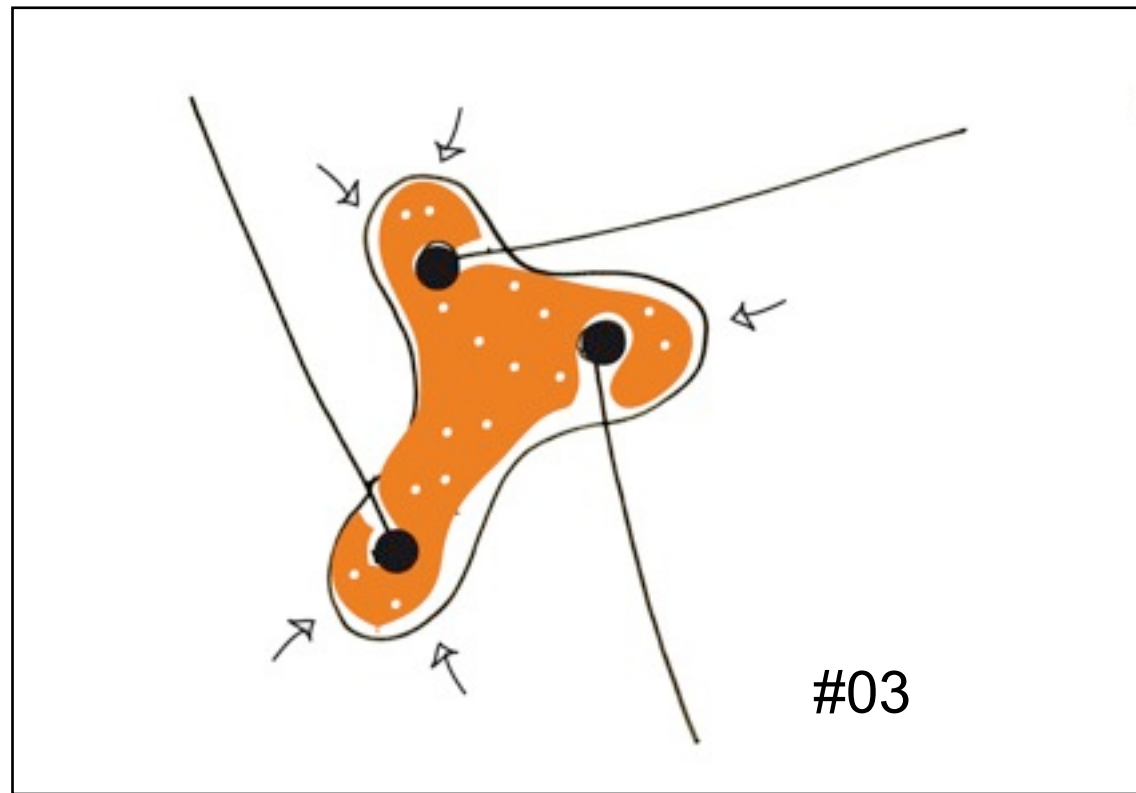
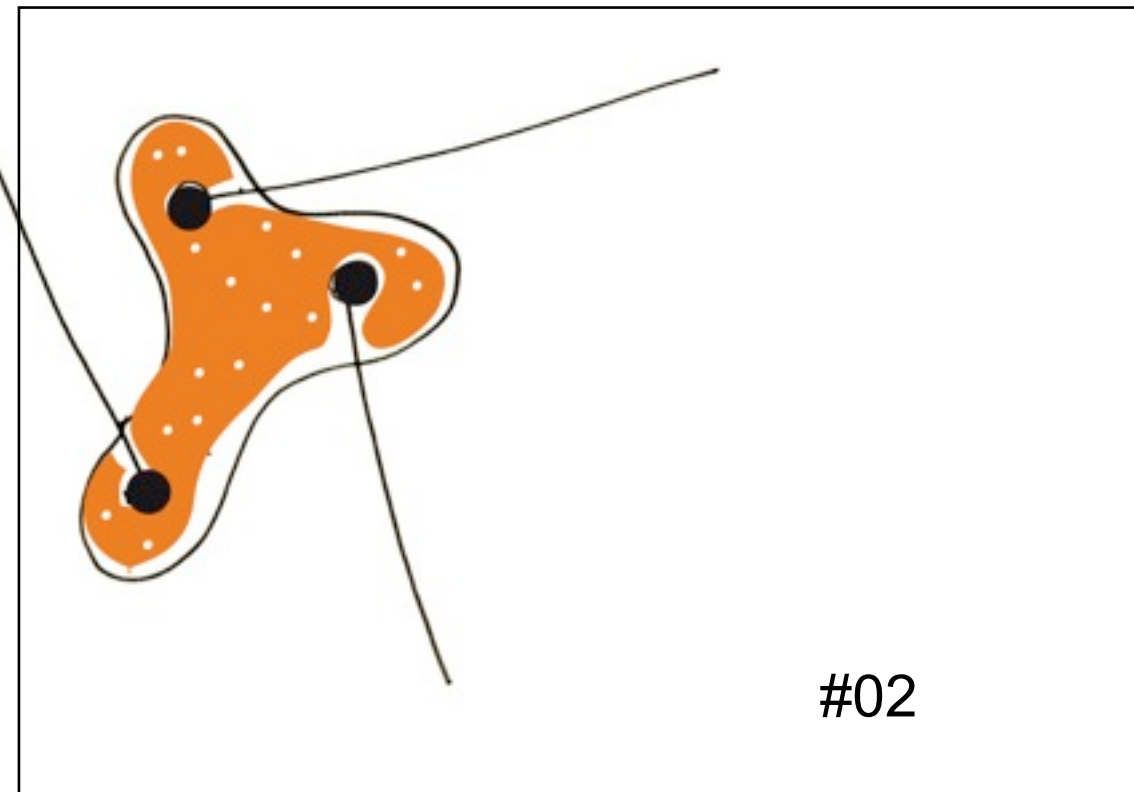
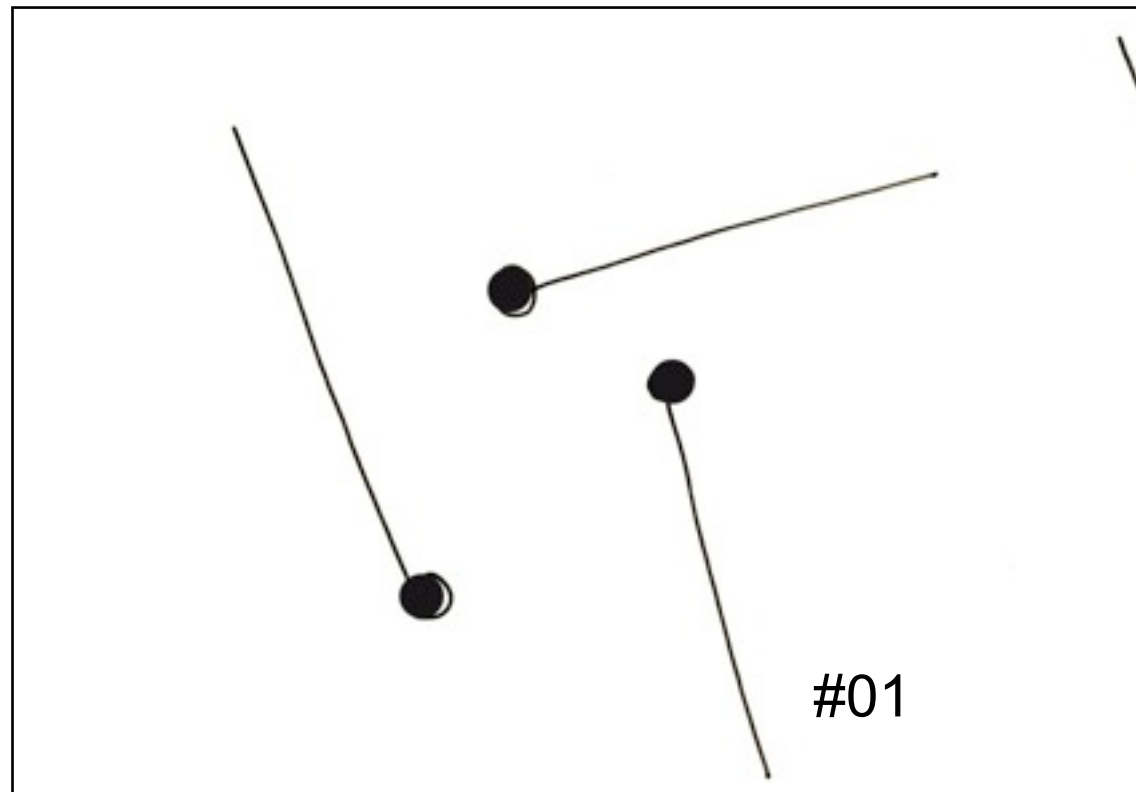
Campus: latin for "open piazza" or a field.

Princeton University i New Jersey (1775)

Identifying new themes.



URBAN UNIVERSITY HUB





COMPETITION PARAMETERS

Robustness

Interdisciplinarity

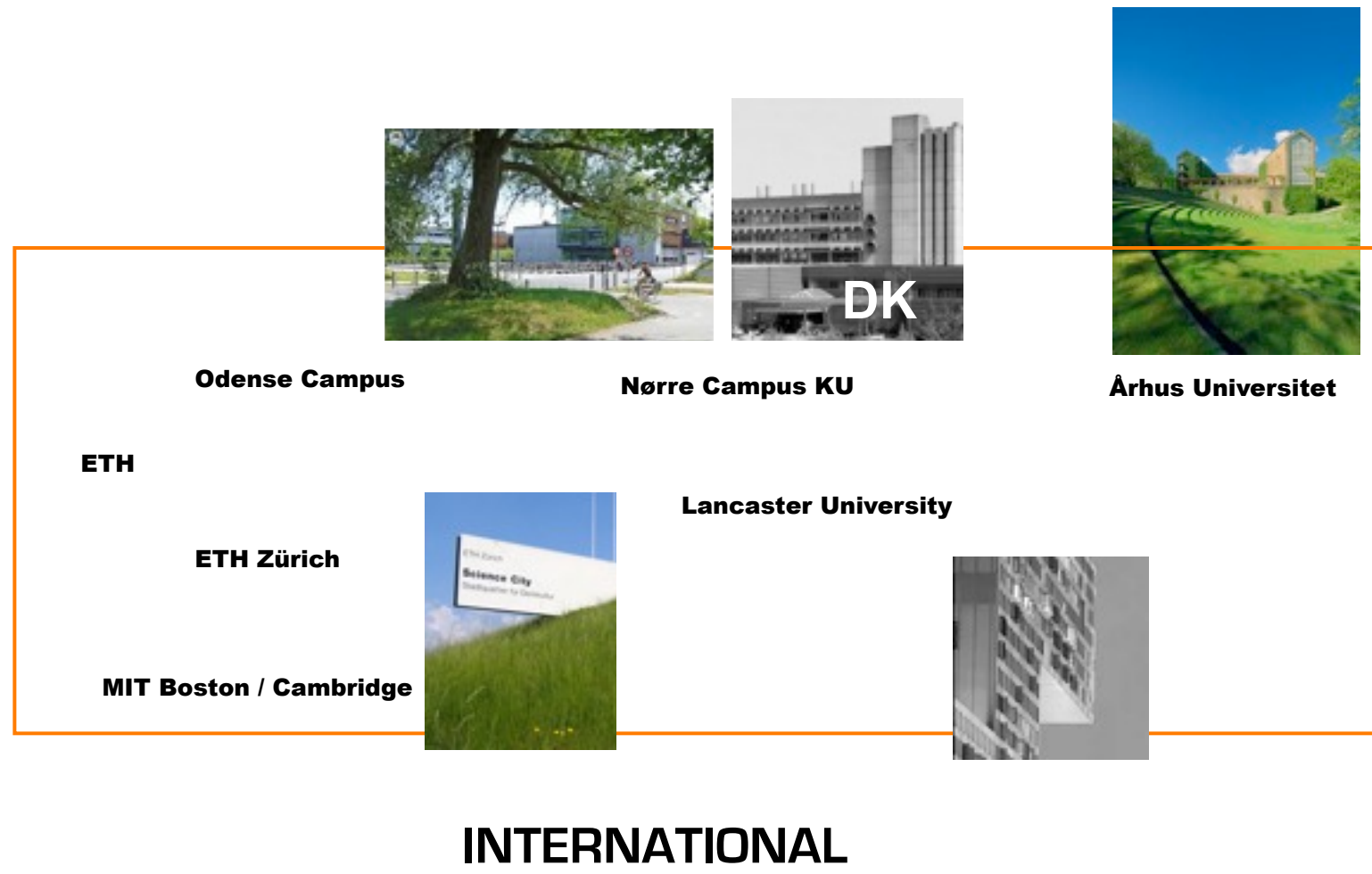
Diversity

Cooperation with business

Urbanity

Holistic approach

ANALYSIS AND MAPPINGS





Historic developments / Typologies

From year 1000 till app. 1700 / Campus as part of the city

Universities that have grown within the city as - Oxford og Cambridge
KU Copenhagen from this period as well

[Oxford from 1096 og Cambridge from 1209]



University of Cambridge

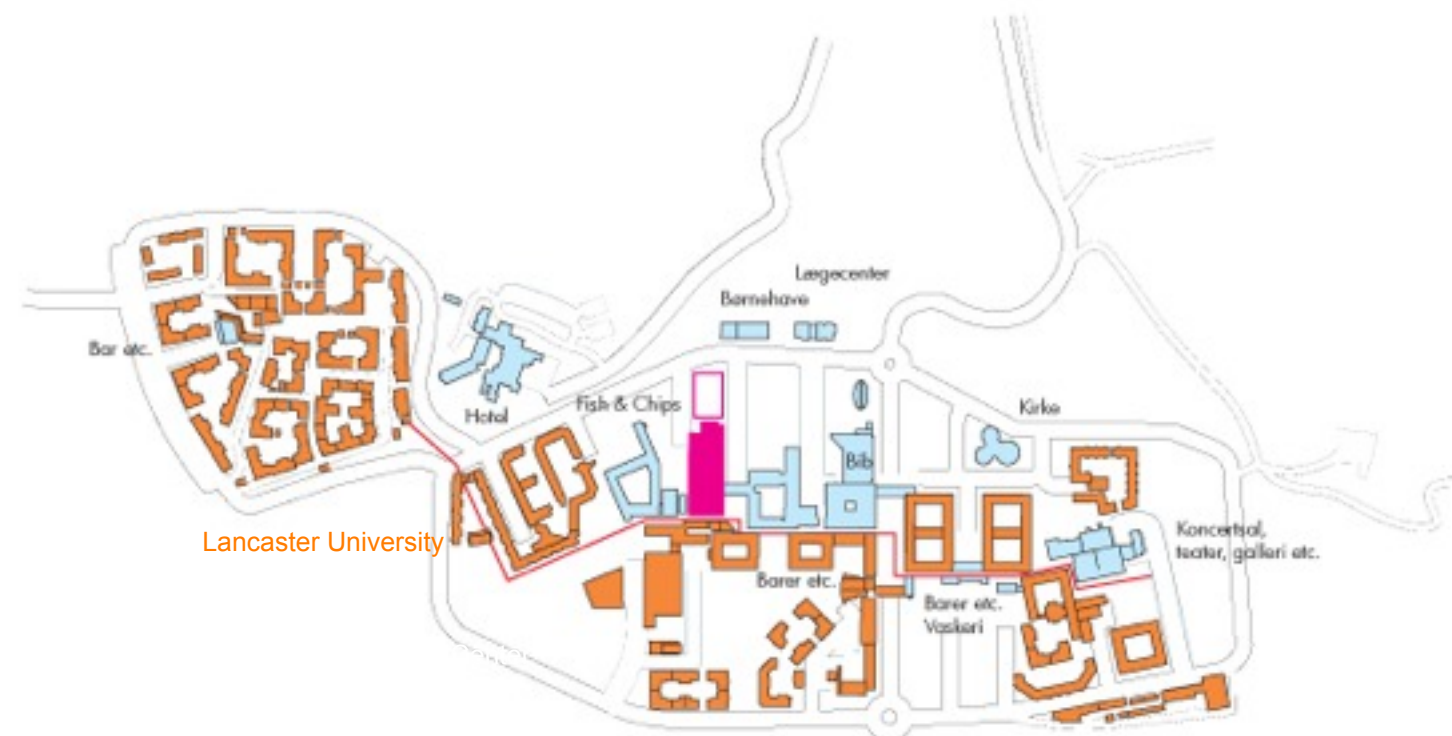


Historic developments / Typologies

Efter 1945 / After 2.nd worldwar - monofunctional outside cities

Political wish for education for all - has consequences for huge university development.
In England and Denmark we see new universities placed in campuses outside the cities.

[Roskilde Universitets Center from 1972 og Lancaster University 1964]



Kilde: "University Builders", Martin Pearce, 2001



YEAR 1000 - 1700

YEAR 1750

YEAR 1900 - 1938

YEAR 1945 onwards

2000 onwards

FUTURE CAMPUS



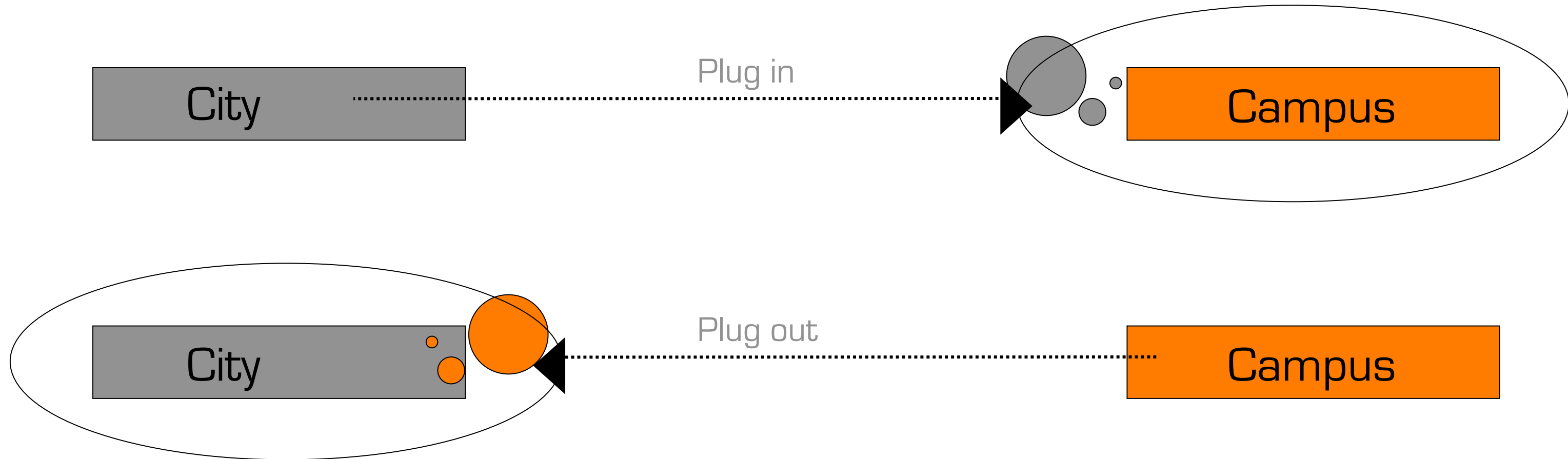


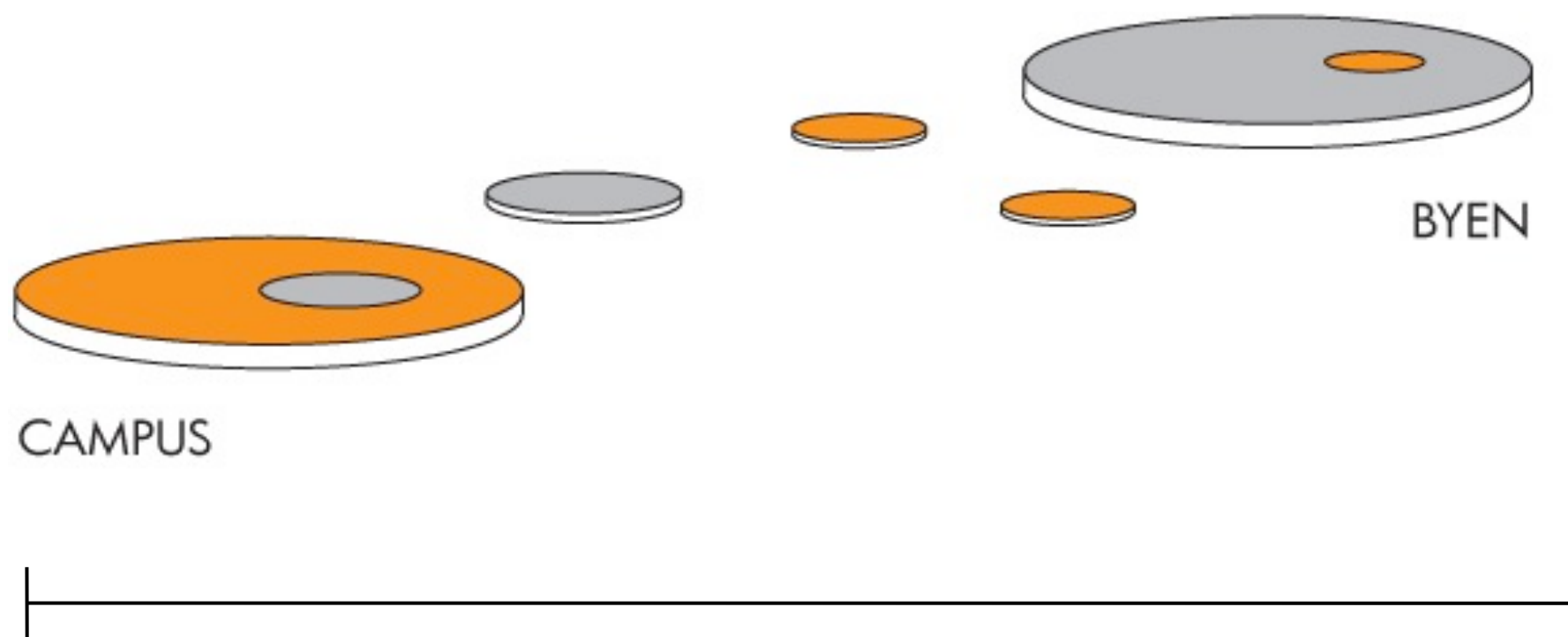
FREMTIDENS
CAMPUSOMRÅDE



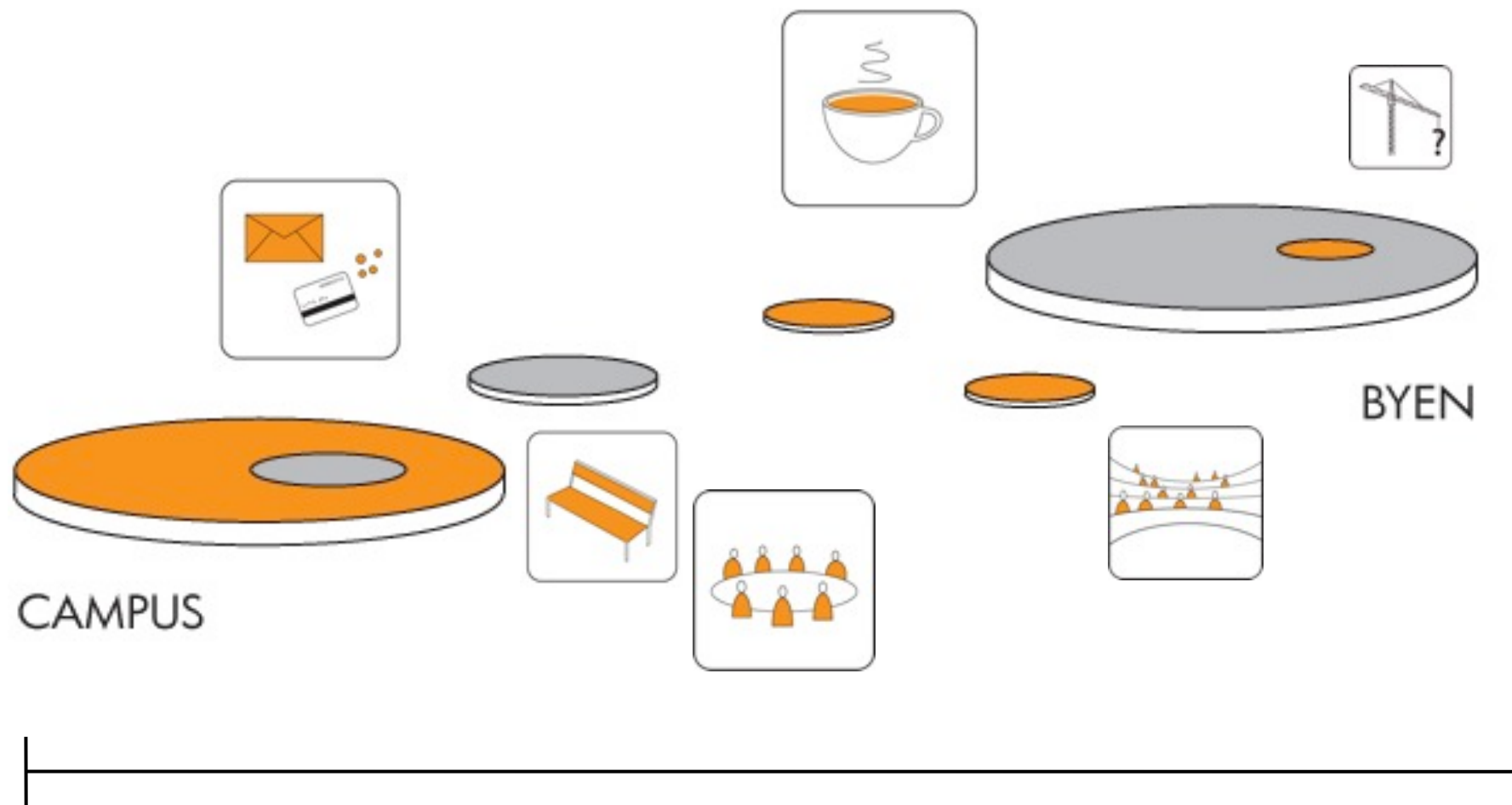
.... **BACK TO THE CITY**

The collective challenge





FUTURE CAMPUS - EXCHANGE CITY AND CAMPUS



FUTURE CAMPUS = **URBAN NEEDS ARE ADRESSED**

Trends:

- Interdisciplinary
- Overlaps
- 24/7
- New hybrids
- Exchange
- Multifunctionality
- Synergies between areas
- Openness and visibility -

WHICH BUTTONS TO TURN?



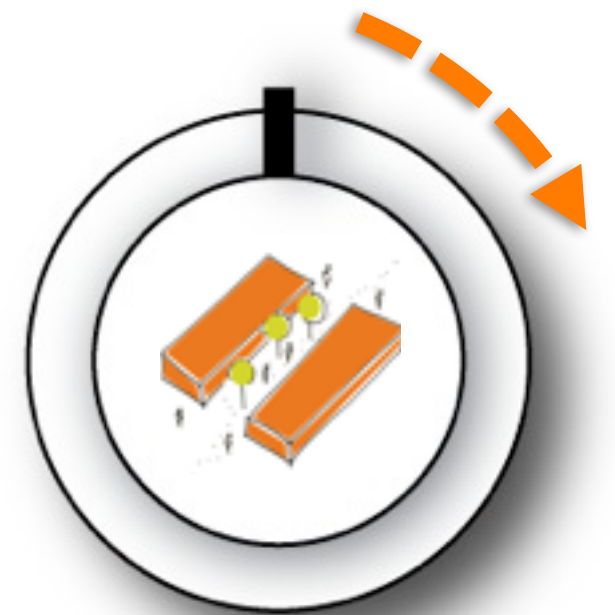
Urban needs



Learning needs



Social needs



Physical needs

4_ LIBRARY - RE-THINK

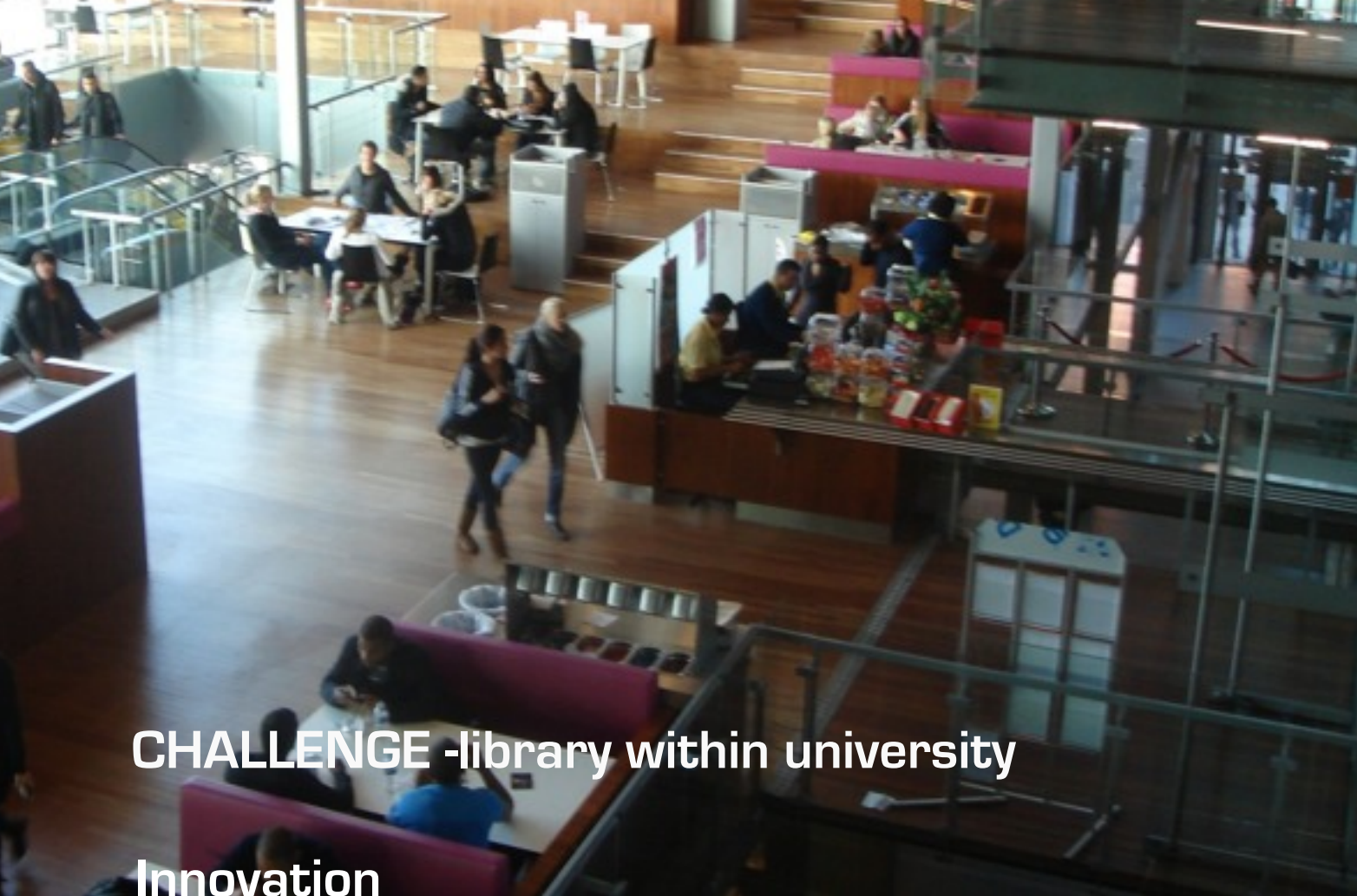
What is..

1. creating knowledge
2. consuming knowledge
3. communicating knowledge



LIBRARY RE-THINK?

**Innovation
Business Briefing
Globalization
Interdisciplinarity
Project Briefing
Diversity
Holistic Orientation
????**



CHALLENGE -library within university

Innovation

Business Briefing

Globalization

Interdisciplinarity

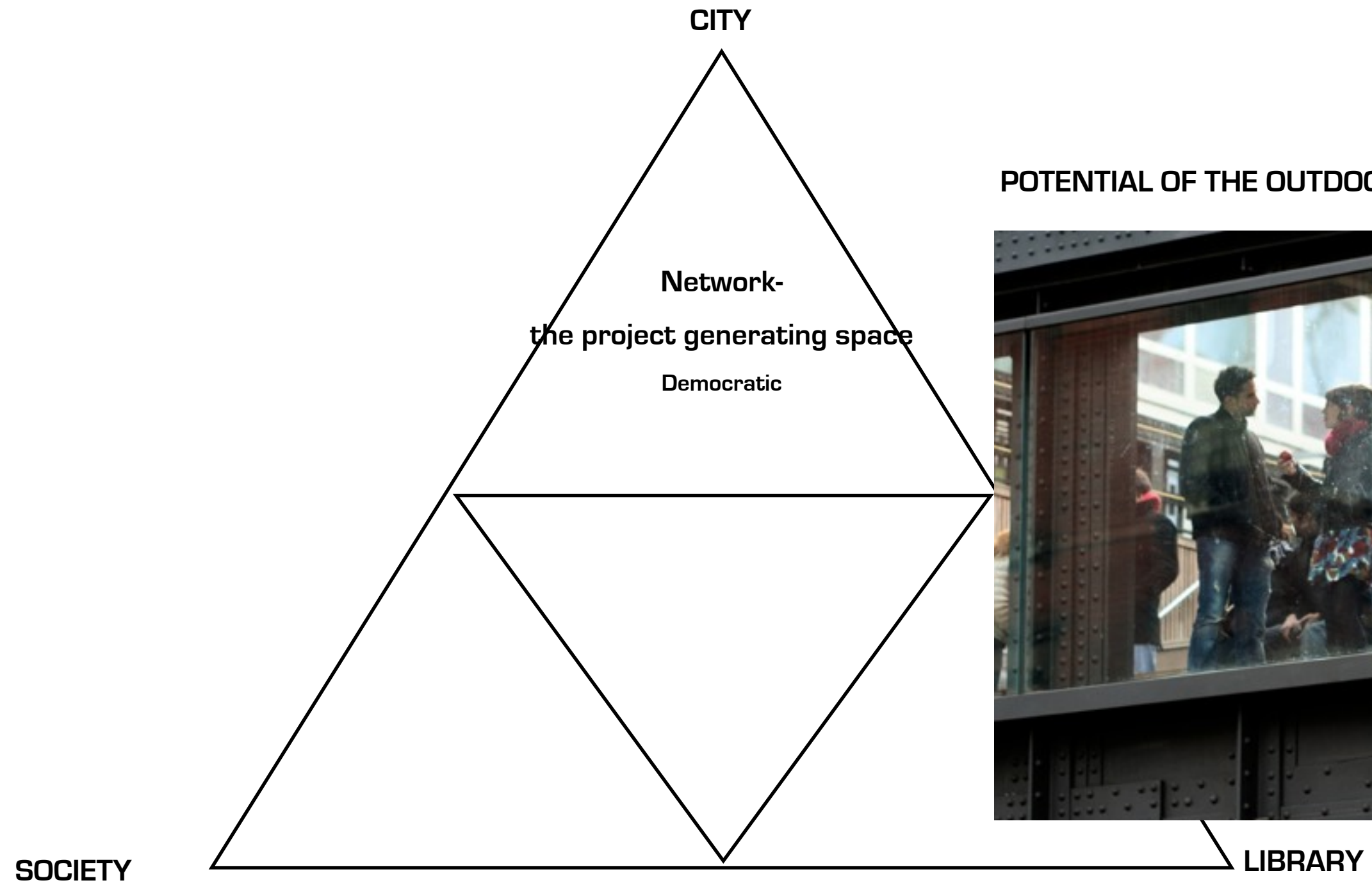
Project Briefing

Diversity

Holistic Orientation



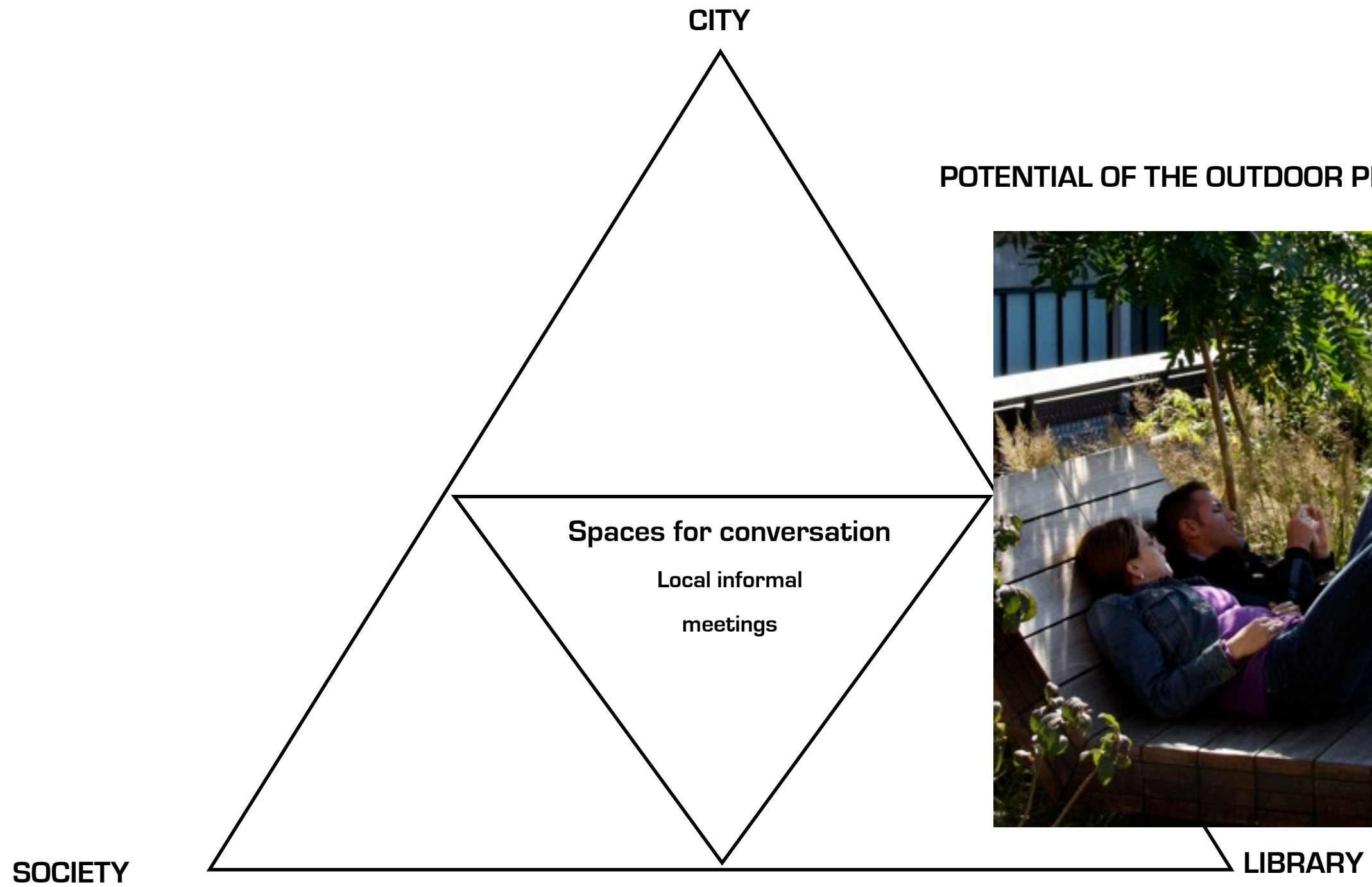
LIBRARY - RE-THINK!



POTENTIAL OF THE OUTDOOR PLAZAS



LIBRARY - RE-THINK!



POTENTIAL OF THE OUTDOOR PLAZAS



LIBRARY - RE-THINK!



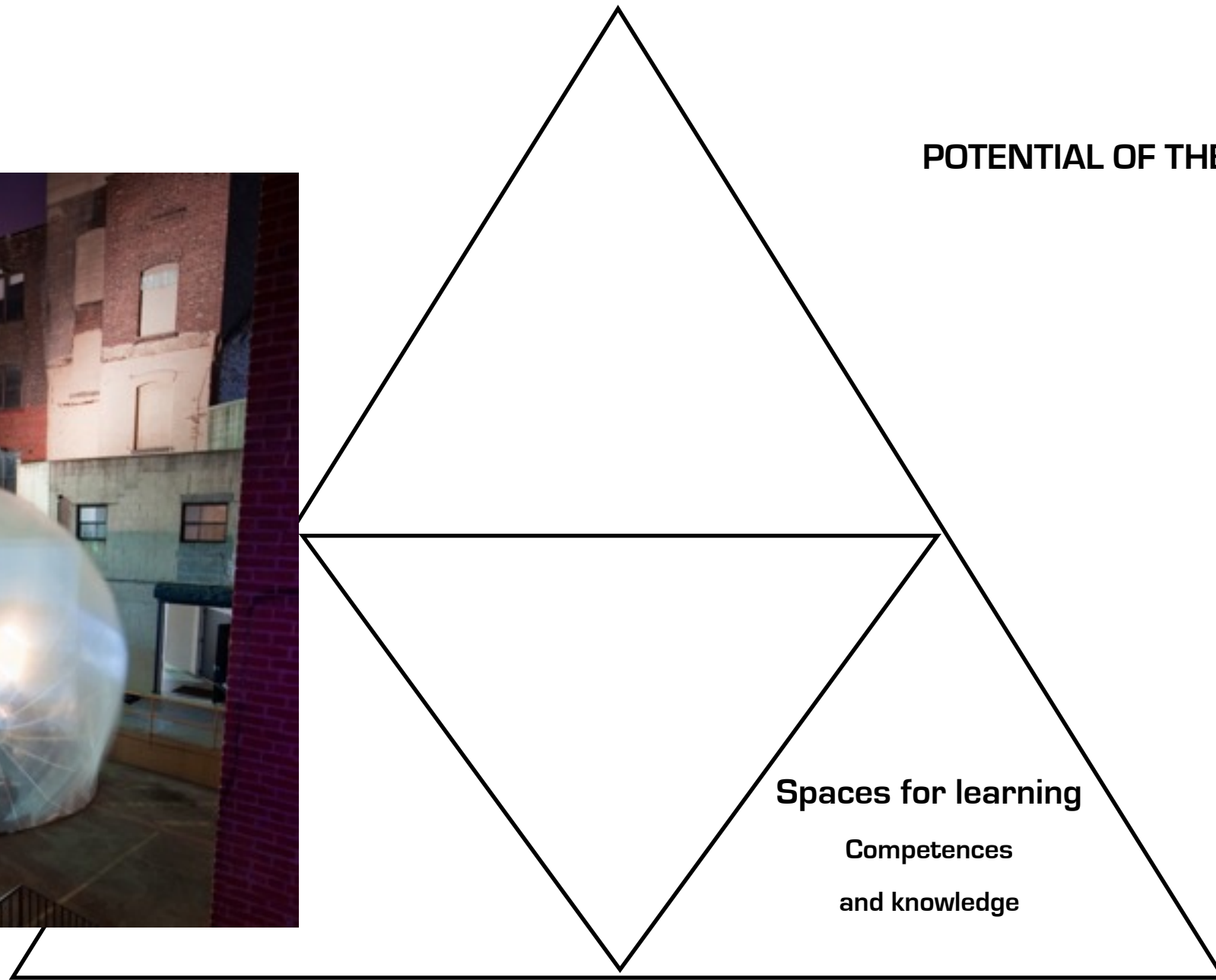
SOCIETY

CITY

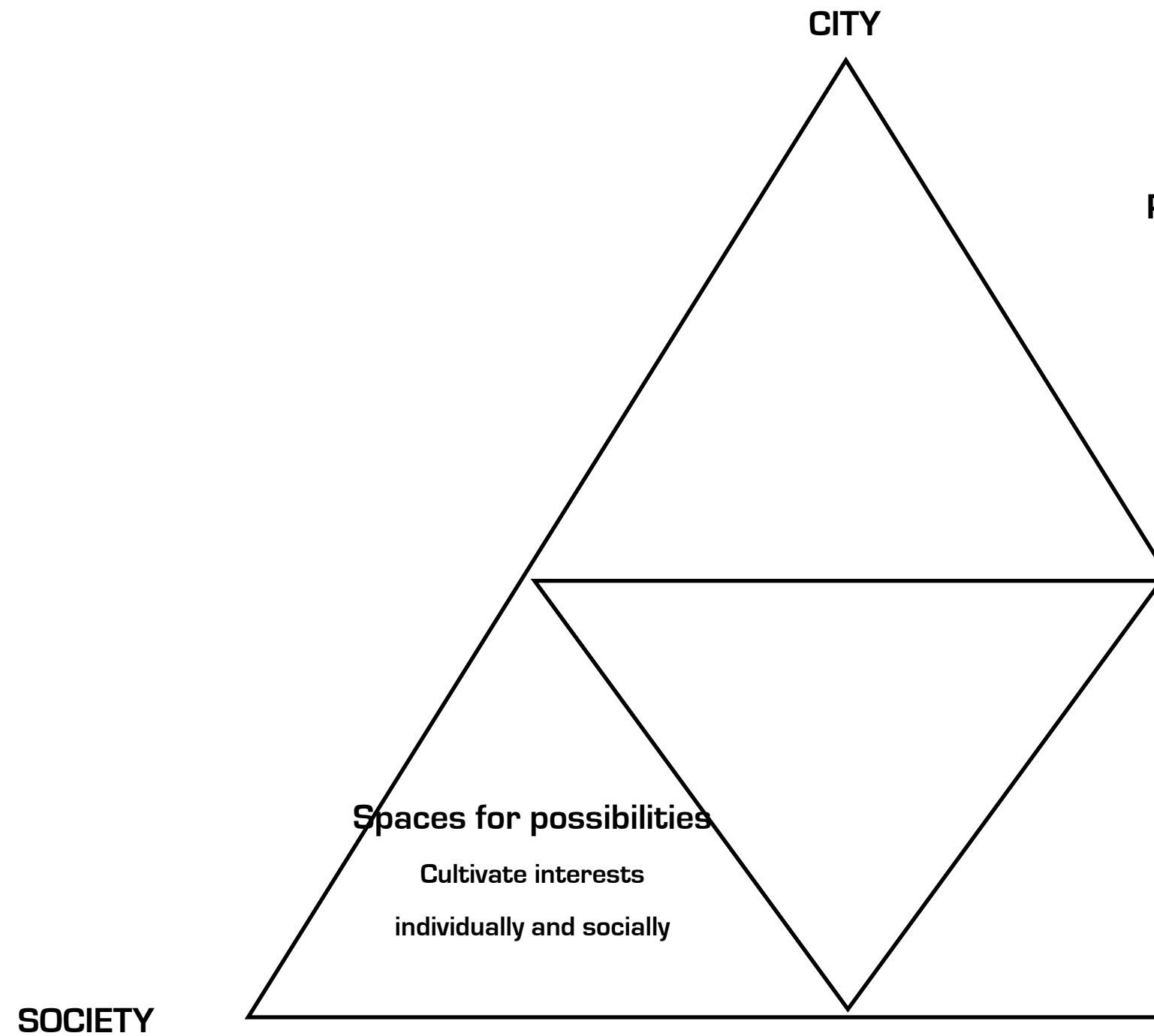
POTENTIAL OF THE OUTDOOR PLAZAS

Spaces for learning
Competences
and knowledge

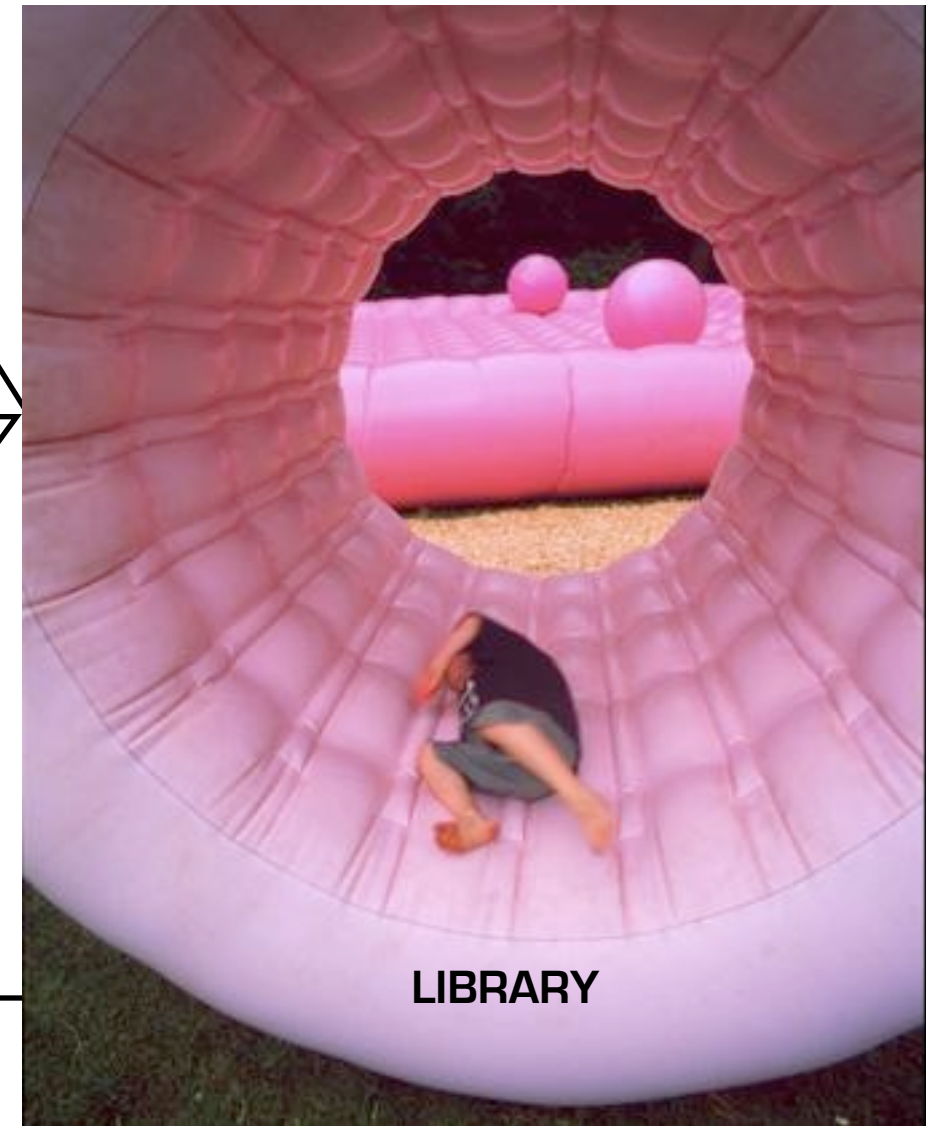
LIBRARY



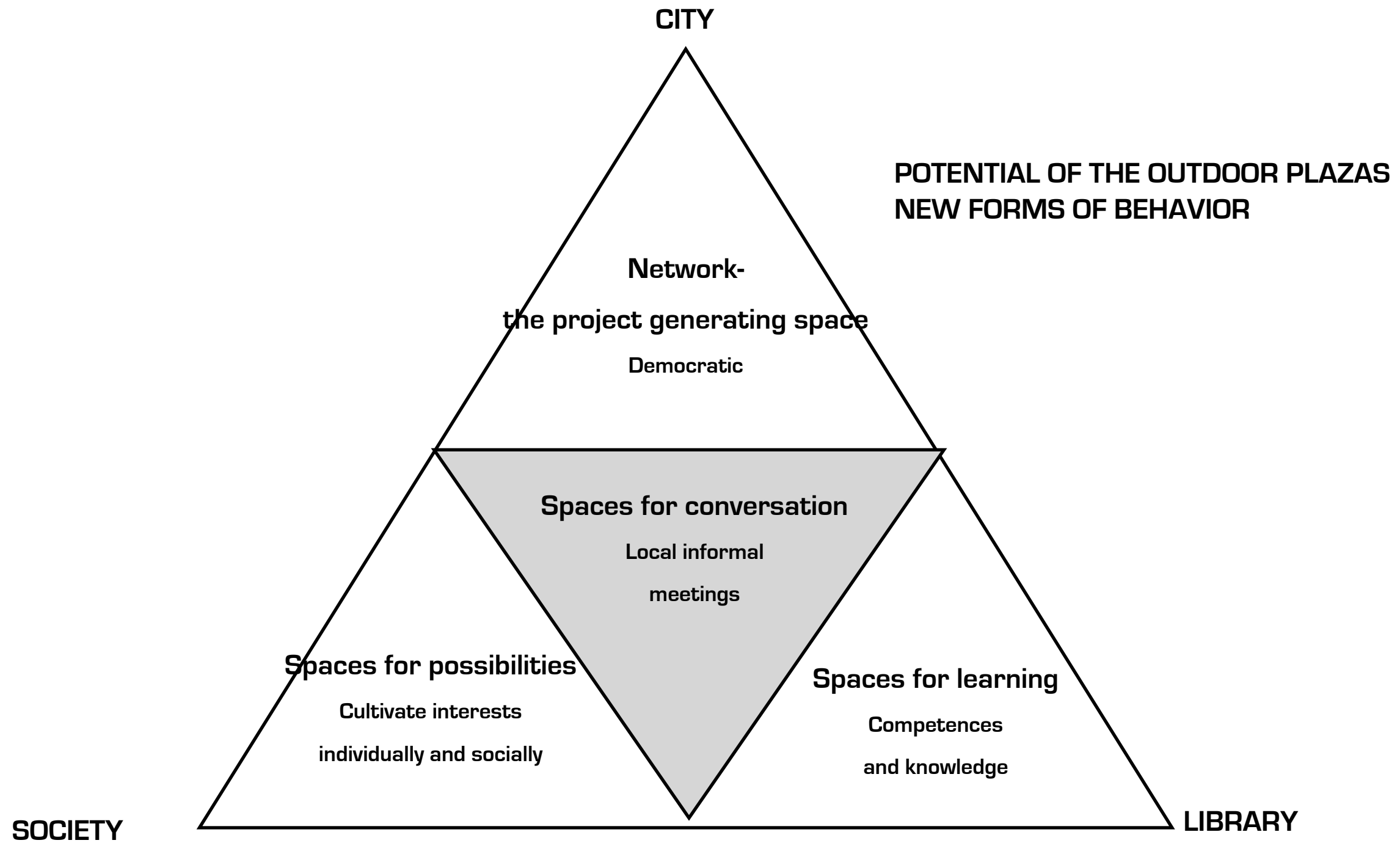
LIBRARY - RE-THINK!



POTENTIAL OF THE OUTDOOR PLAZAS



LIBRARY - RE-THINK!



LIBRARY - RE-THINK!

University



Innovation

Business Briefing

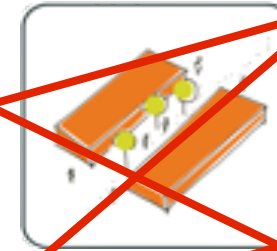
Globalization

Interdisciplinarity

Project Briefing

Diversity

Holistic Orientation



Urban space needs

social needs

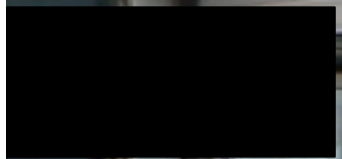
learning needs

TOOL-BOX



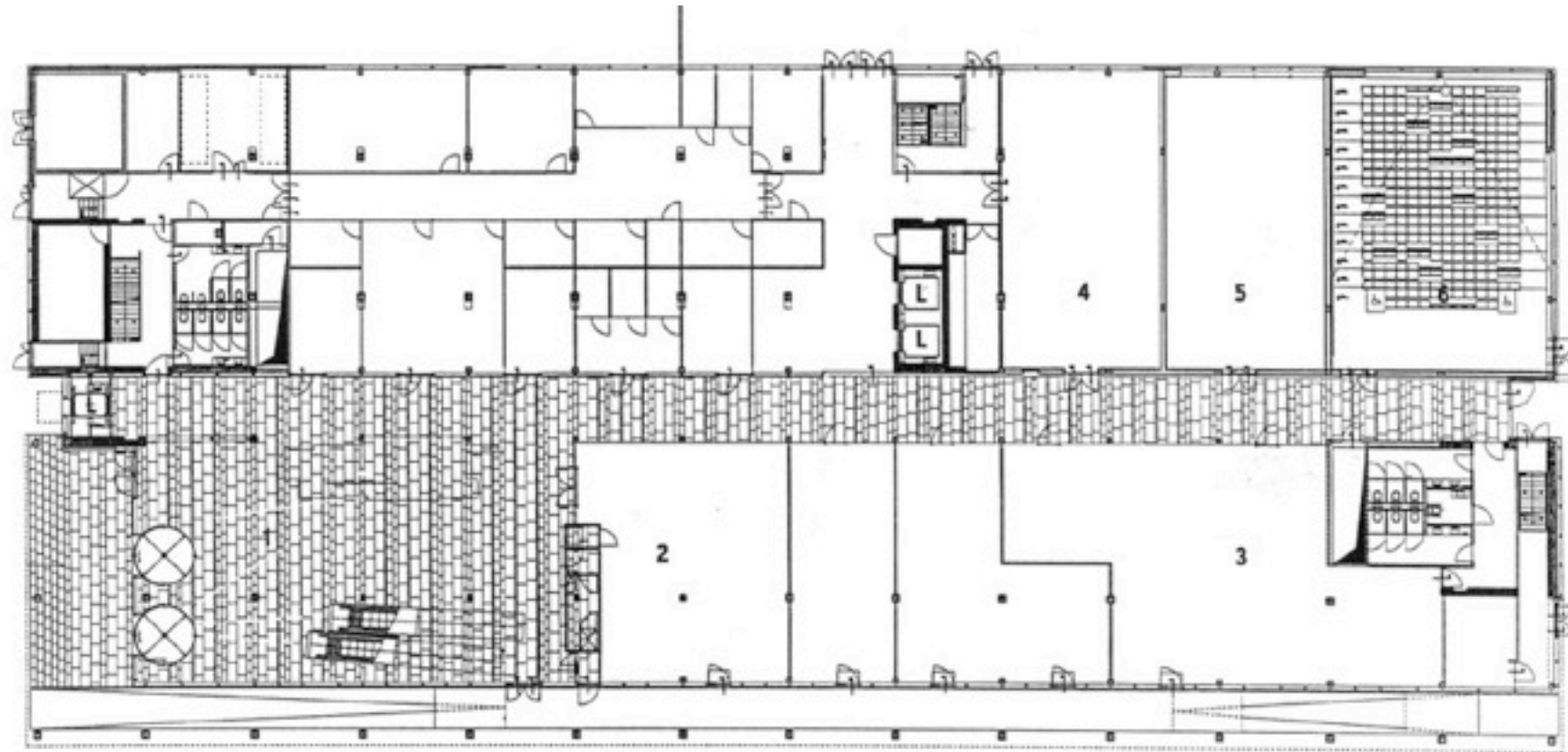
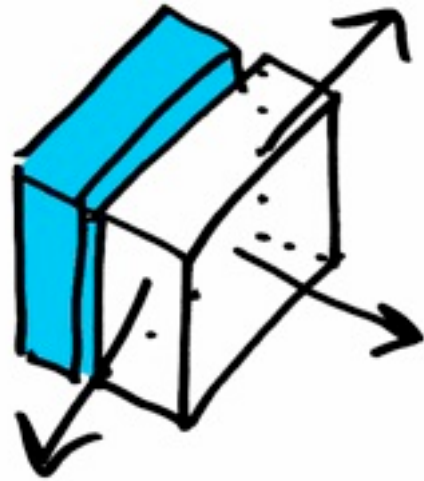


HOGESCHOOL INHOLLAND
Rotterdam, Holland
2 cases ..



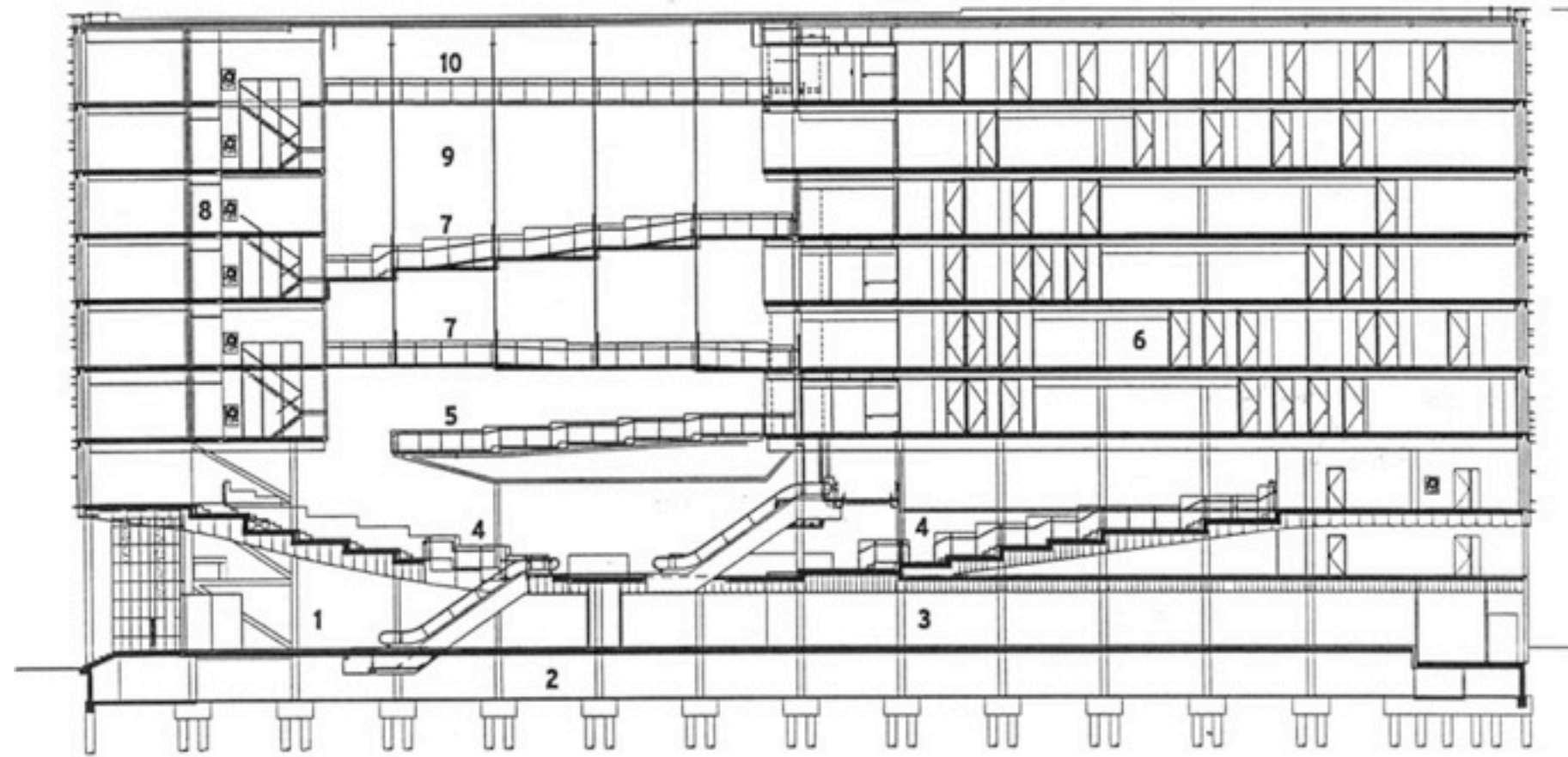
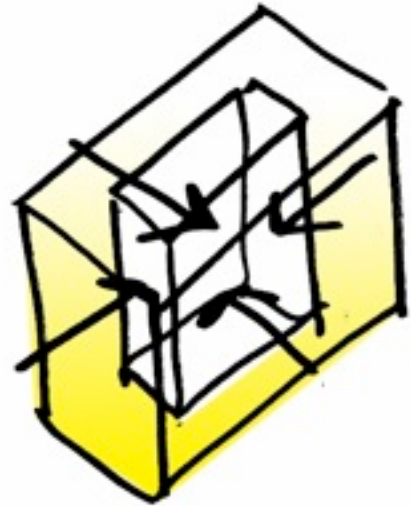
HOGESCHOOL INHOLLAND - PLAN

NEW WAYS OF WORKING / NEW WAYS OF LEARNING - library within



HOGESCHOOL INHOLLAND - section

NEW WAYS OF WORKING / NEW WAYS OF LEARNING -



WHAT IS THE FUTURE KNOWLEDGE ENVIRONMENT

Flexibility

Flexible spaces and / or flexible people?

Flexibility in this context means 'adaptability to a diversity of situations'

Flexibility should be seen as choices



Space for specific situations

IT - integrated - Computerworkstations
and the open library

WHAT IS THE FUTURE KNOWLEDGE ENVIRONMENT

Space for processes and sharing knowledge
informal as formal

WHAT IS THE FUTURE KNOWLEDGE ENVIRONMENT



Space for intensiv coop..

WHAT IS THE FUTURE KNOWLEDGE ENVIRONMENT



exchange with city

WHAT IS THE FUTURE KNOWLEDGE ENVIRONMENT



visibility and cooperation.

WHAT IS THE FUTURE KNOWLEDGE ENVIRONMENT



spaces for social meetings....

WHAT IS THE FUTURE KNOWLEDGE ENVIRONMENT



WHAT IS THE FUTURE KNOWLEDGE ENVIRONMENT



Library as driving force

OMA - Seattle central library

Oma´s ambition is to redefine the library as an institution no longer exclusively dedicated to the book, but rather as an information store where all potent forms of media - new and old - are presented - equally and legibly. The design is about simultaneity of media, curatorship of content, flexibility, circulation, palette and structure ... and diversity...



city areas of knowledge....

THE FUTURE KNOWLEDGE ENVIRONMENT



city areas of knowledge....

THE FUTURE KNOWLEDGE ENVIRONMENT



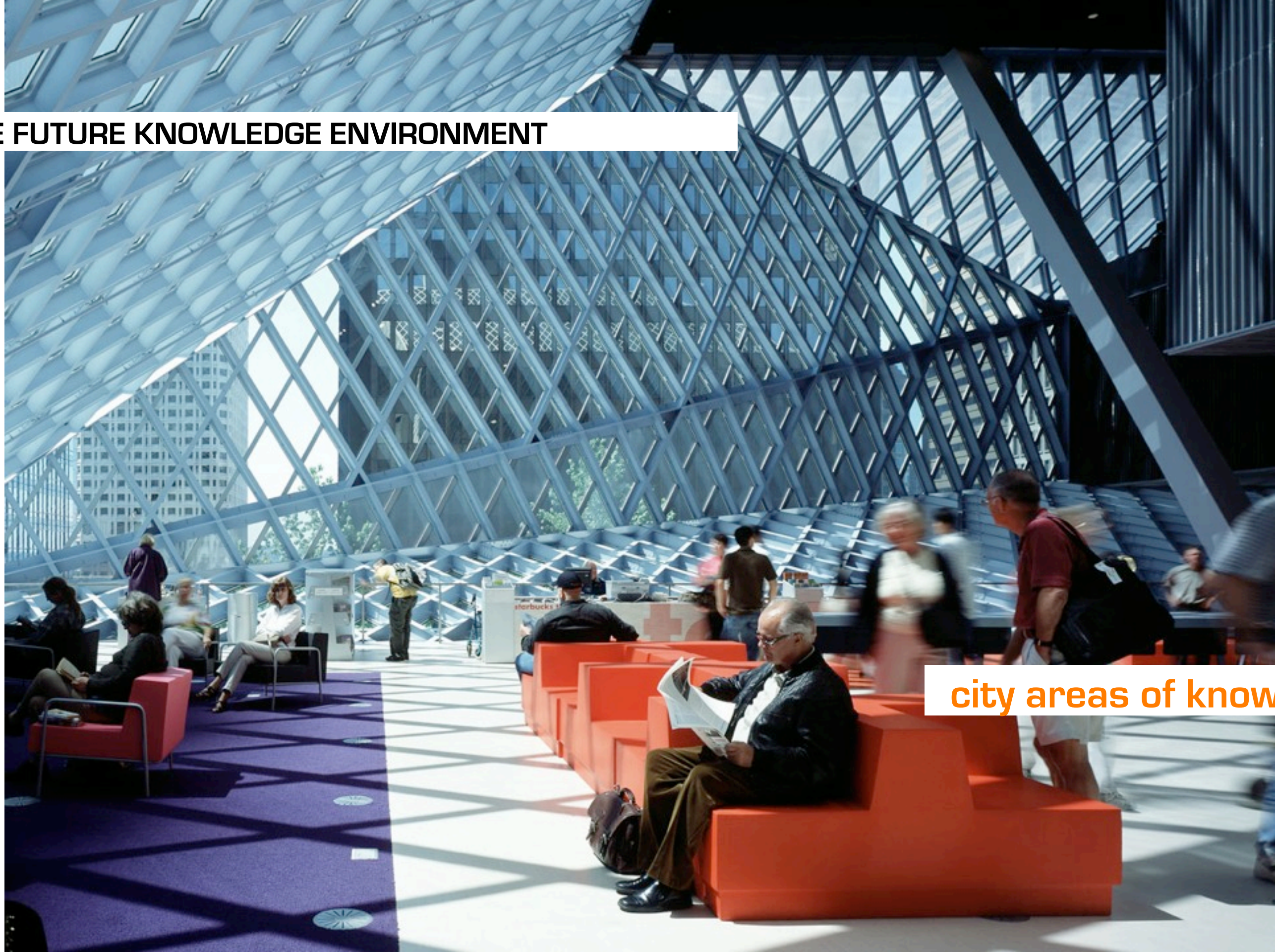
city areas of knowledge...

THE FUTURE KNOWLEDGE ENVIRONMENT



city areas of knowledge...

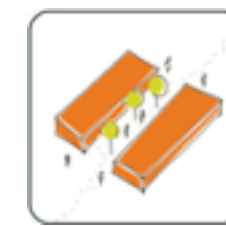
WHAT IS THE FUTURE KNOWLEDGE ENVIRONMENT



city areas of knowledge...



THE FUTURE KNOWLEDGE ENVIRONMENT ? a holistic approach



THE LEARNING LIBRARY´ - RE-THINK

1. Libraries accept diversity as a norm
2. Libraries act as cultural and social transformers of society.
3. Libraries should be inclusive and ambiguous - work as urban hubs that - physically and mentally - connect different parts of the city and its inhabitants. -

so we need ...

LIBRARY - RE-THINK

. 24/ 7

- visibility - inside out - outside in
- exposure of knowledge
- accessibility
- exchange/ society - plug ins - and cooperations
- diversity - cultural behavior
- space for flexibel needs
- support for informal meetings ...



Thank you

Liber - architecture seminar - Prag 18.april 2012

Helle Juul, Architect MAA, Ph.d, CEO JUULFROST Architects, Copenhagen- DK

