INTELLIGENT M² – LOTS OF RESSOURCES TO BETTER LEARNING ENVIRONMENTS

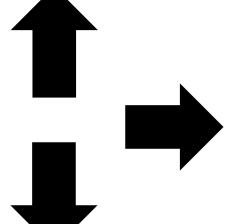
GITTE ANDERSEN, SIGNAL

CEO, GLOBAL HEAD OF WORKSPACE MANAGEMENT & DESIGN

SPACE – A TOOL TO BETTER PERFORMANCE

S:GNAL

DESIGN OF LEARNING ENVIRONMENTS THAT ENCOURAGE WORKING-AND LEARNING PROCESSES



INTELLIGENT M²

Co-thinking of Visions & Strategy People and learning Architecture & Space design

OPTIMIZED LAY OUT OF M²
CORRESPONDING TO ACTUAL
USE DURING THE DAY

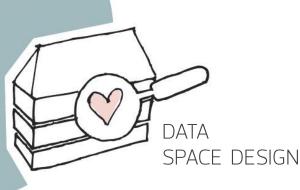
LEARNING RELATIONS WELL-BEING BEHAVIOUR

ABC



VISION STRATEGY MANAGEMENT

MORE AND BETTER FOR LESS

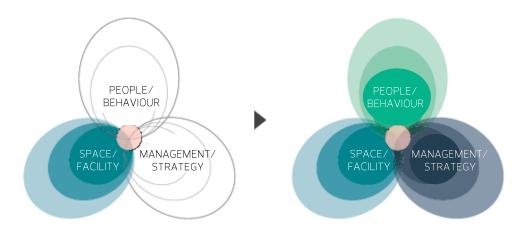


INTELLIGENT M² & DEMOCRATIC ARCHITECTURE

SIGNAL

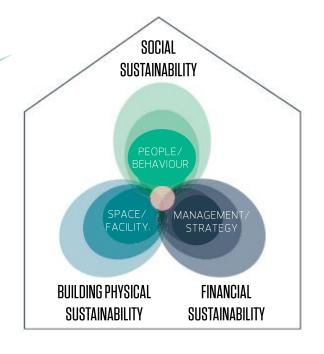
"THE ARCHITECTURE CAN — WHEN IT'S BEST — SUPPORT THE LINK BETWEEN SPACE AND LEARNING BY BEING INVITING, DEMOCRATIC AND ORGANIZING AROUND COMMUNITIES"

- Nordic learning environments are some of the strongest community leading buildings and spaces
- Everybody play and learn in the spaces of the public sector from early childhood till graduation
- Using space as 'the third teacher' or pedagogue



"DEMOCRATIC ARCHITECTURE"

- From mono functionality to poly functionality & 'do-it-together'
- From private owned spaces & m² to communal and collaboration

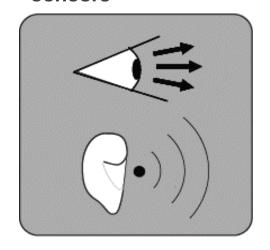


SIGNAL BENCHMARK - EVIDENCE & DATA THROUGH 17 YEARS SIGNAL

Online Survey



On site observations / censors



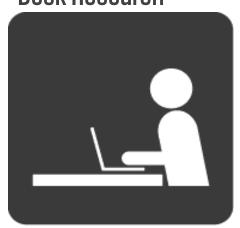
Interviews



Workshops



Desk Research



Network Analysis



DATA DATA DATA

LOTS OF HIDDEN RESSOURCES JUST WAITING TO BE ACTIVATED SIGNAL



• On average, workstations are used $32\,\%$ of the time / maximum $40\,\%$



- Available group– and meeting rooms are used between $26\,\%$ and $67\,\%$ of the time
- When group– and meeting rooms are used, the utilisation of capacity is between $18\,\%$ and $51\,\%$



- On average, the auditoriums are used 76% of the time
- When the auditoriums are used, the utilisation of capacity is $30\,\%$



- The student's preparation rooms are used $56\,\%$ of the time
- When the preparation facilities are used, the utilisation of capacity is $31\,\%$

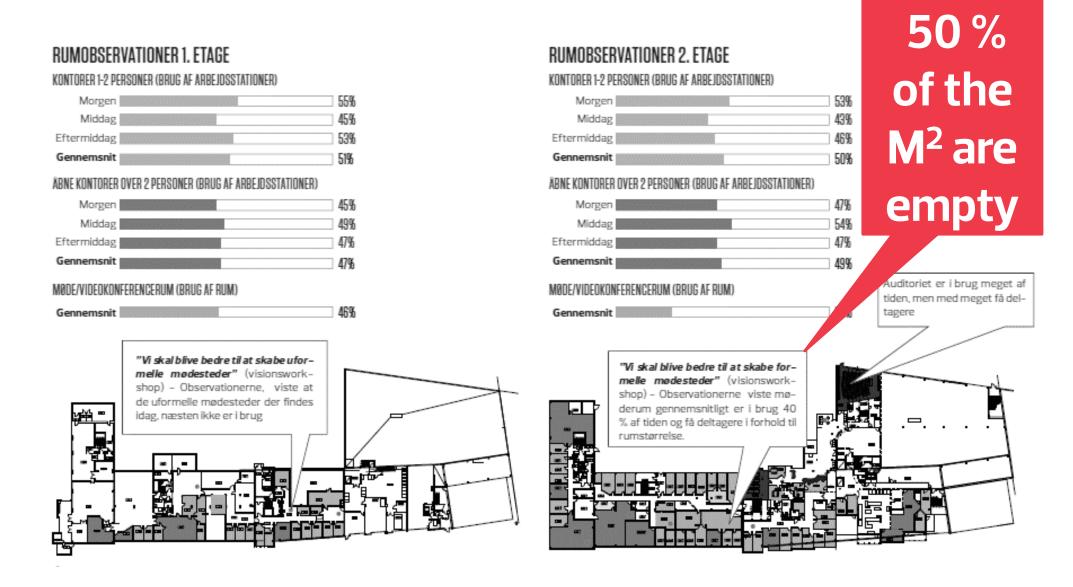


• On average, the common areas are used between $50\,\%$ of the time

TOTAL USE OF CLASSROOMS IS $54\,\%$ (AUDITORIUMS / LABORATORIES / DATA HALLS)

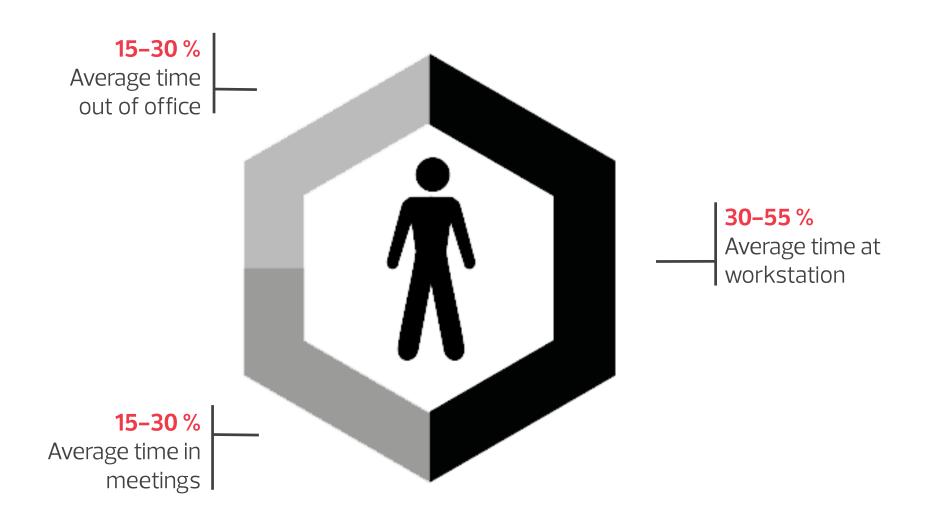
OBSERVED USE OF M² DURING THE DAY

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HOW DO THE ADMINISTRATION ON CAMPUS WORK – ALONE OR TOGETHER?

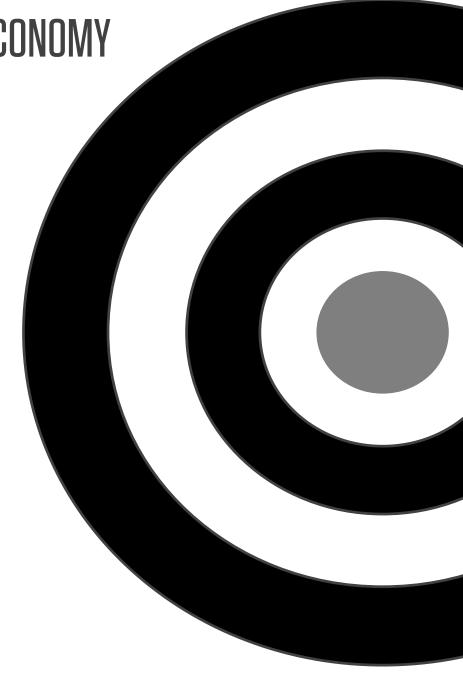
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MENTAL REBUILD®
BEHAVIOR & WORKSPACE IN A SHARED ECONOMY

Up to 35 % better performance in the same m2 only by challenging behavior – WITHOUT rebuilding or moving walls

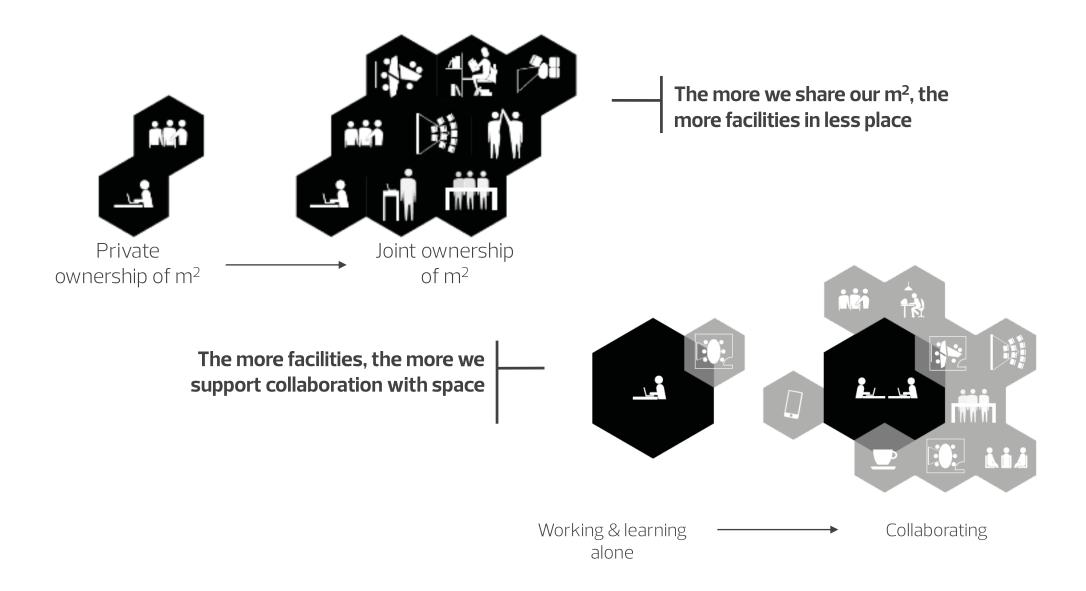
More is not always better! It is more important to have access to facilities when we have the need, than owning them 24 hours a day.



SIGNAL

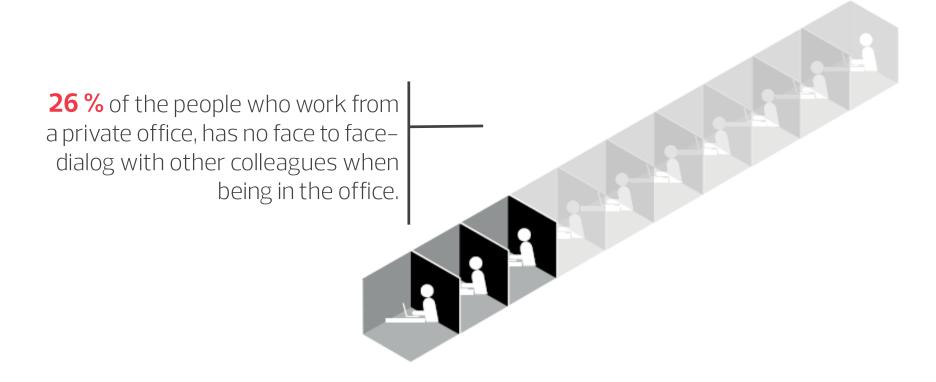
M²& PERCEPTION OF LEARNING AND WORKING

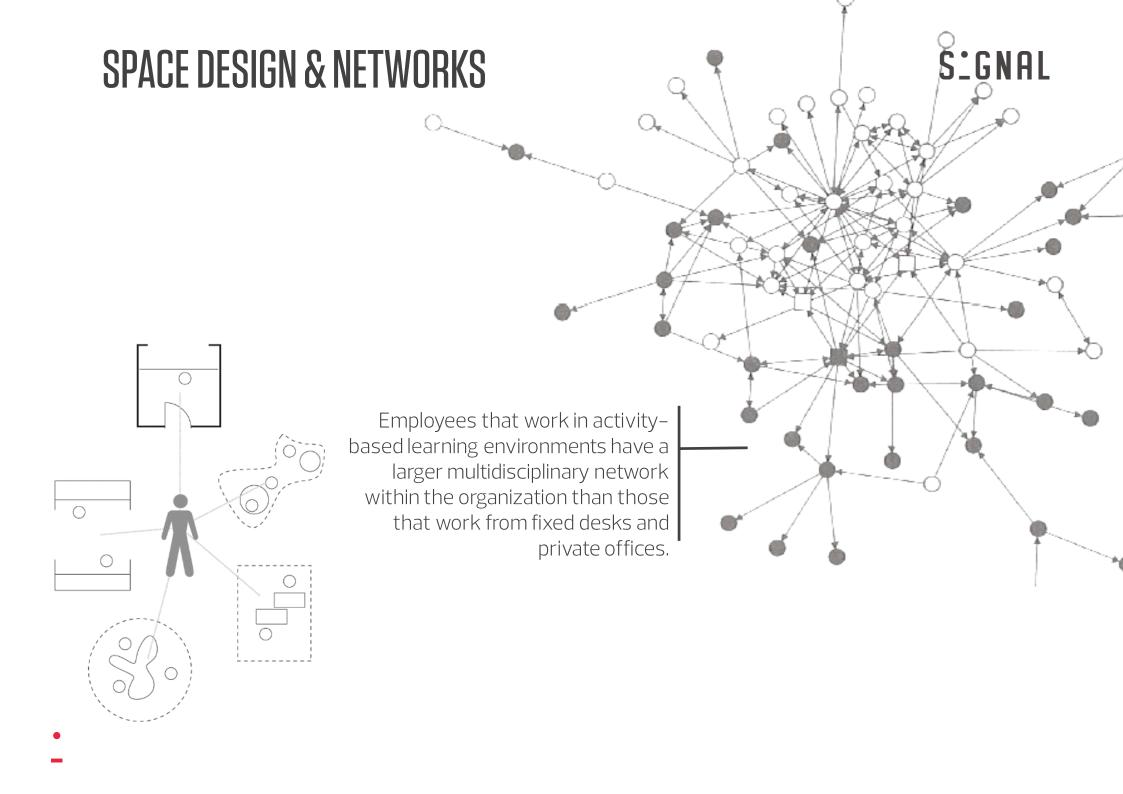
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SPACEDESIGN & FACE TO FACE DIALOG WITH COLLEAGUES

SIGNAL



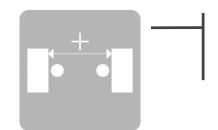


KNOWLEGDE SHARING & SOCIAL RELATIONS

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We mainly share knowledge with those who we have the best social relationship.



With distances over 50 meters the knowledge sharing falls dramatically.



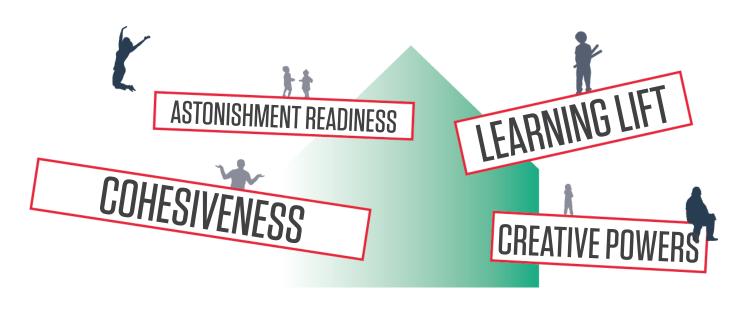
The more time we spend together, the more sympathy we have for each other.

FUTURE POTENTIAL

CAMPUS IN SOCIETY - DEALING WITH THE MAIN CHALLENGES SIGNAL

Increased digitisation and individualisation

Increased social differences and increased cultural fragmentation



The potential

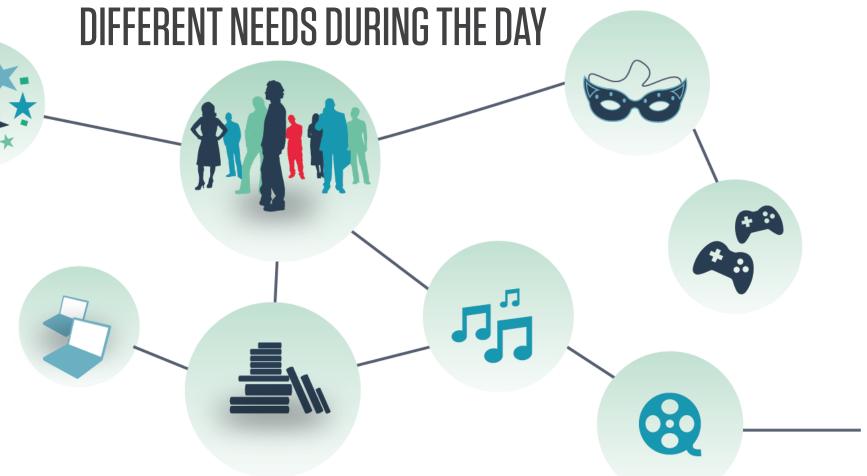
In a welfare economy on a diet with new requirements for the future learning environments,

there is a need for increased focus on existing **resource fullness**.....



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MORE USERS within the same space....

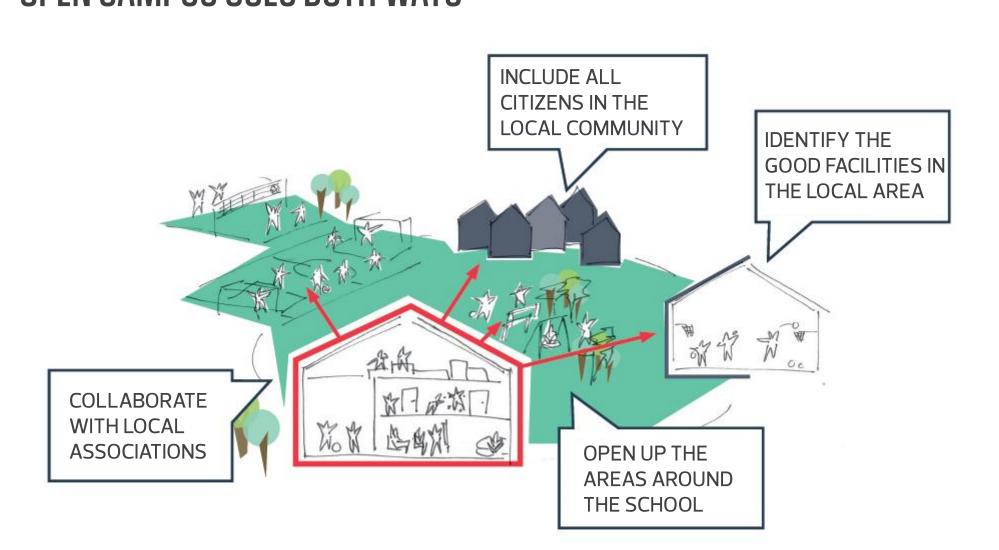


But in space that can be shared

FLEXIBILITY, ADAPTABILITY & MULTI-FUNCTION

APPLICABILITY in time and space is needed.....

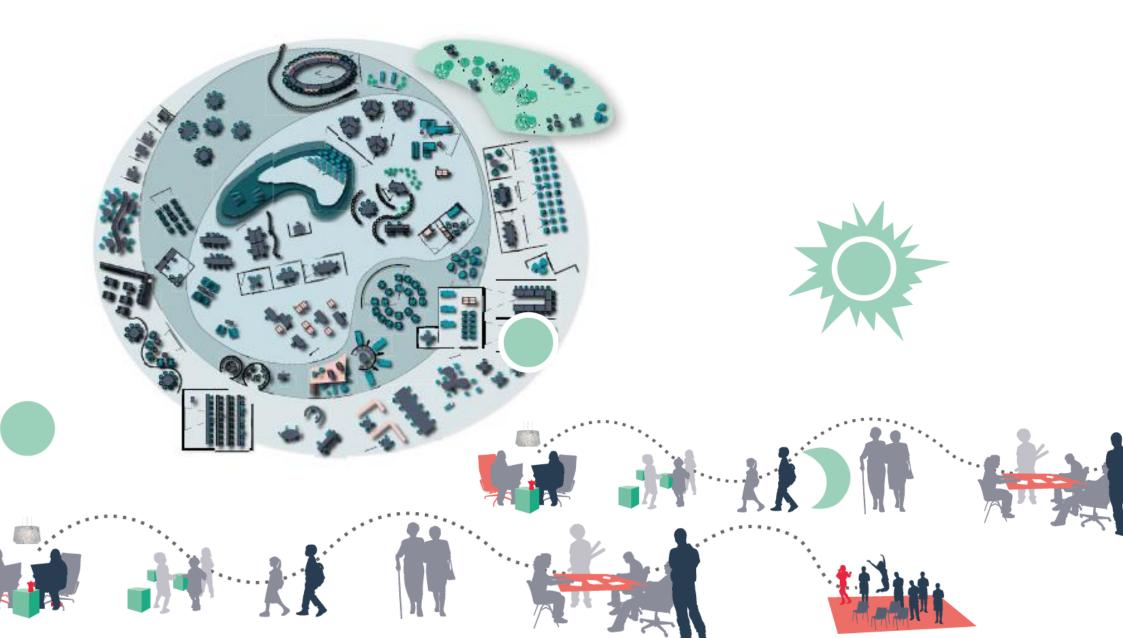
'GOLD IN THE NEIGHBORHOOD' – ACTIVATING FREE RESSOURCES SIGNAL – OPEN CAMPUS GOES BOTH WAYS



OPPORTUNITIES WHEN SPACE & BEHAVIOUR IS CHALLENGED! SIGNAL

- From private owned areas to FLEXIBLE, COMMUNAL AREAS
- Creating surroundings that ENCOURAGE INTERACTION AND AUTONOMY
- From locked schemas to ACTIVITY BASED DYNAMIC LEARNING
- Creating physical surroundings that facilitate DIVERSITY IN LEARNING AND TEACHING
- Challenging locked habits and roles where SPACE IS USED AS A 'TRAINING FIELD' &
 WORK OUT ROOM FOR HOW WE LATER SHALL INTERACT IN SOCIETY
- From manifesting static architecture to PHYSICAL SURROUNDINGS THAT STAGE NEW TEACHING AND BEHAVIOUR and optimally promote teaching and job satisfaction

ONE SCHOOL, ONE LOCAL AREA, 24 HOURS, MANY USERS... SIGNAL LOTS OF OPPORTUNITIES TO CREATE BETTER LEARNING ENVIRONMENTS...



ALL WRAPPED UP IN OUR BOOKS....

S:GNAL





SPACE MATTERS SIGNATION SPACE MATTERS