



WORKSHOP OPEN PLAN OFFICES - Acoustic guidelines in The Netherlands

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WHO ARE WE?

Dutch society:

- very busy, task focused
- flexible lifestyles (mix private life and jobs)
- little country: a lot of people, a lot of cars



WHO ARE WE?

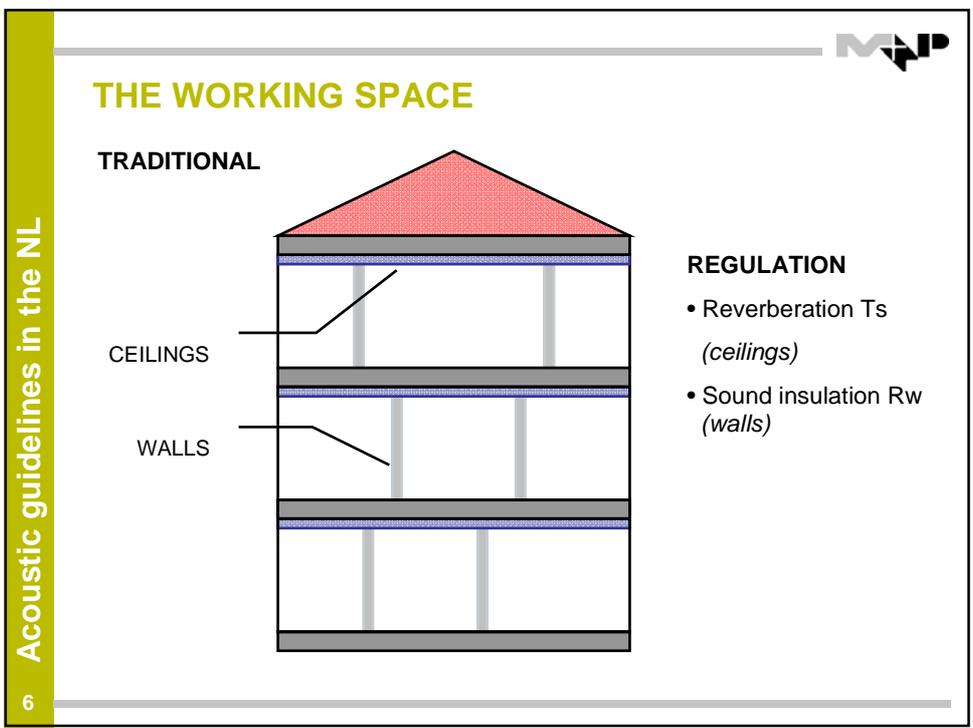
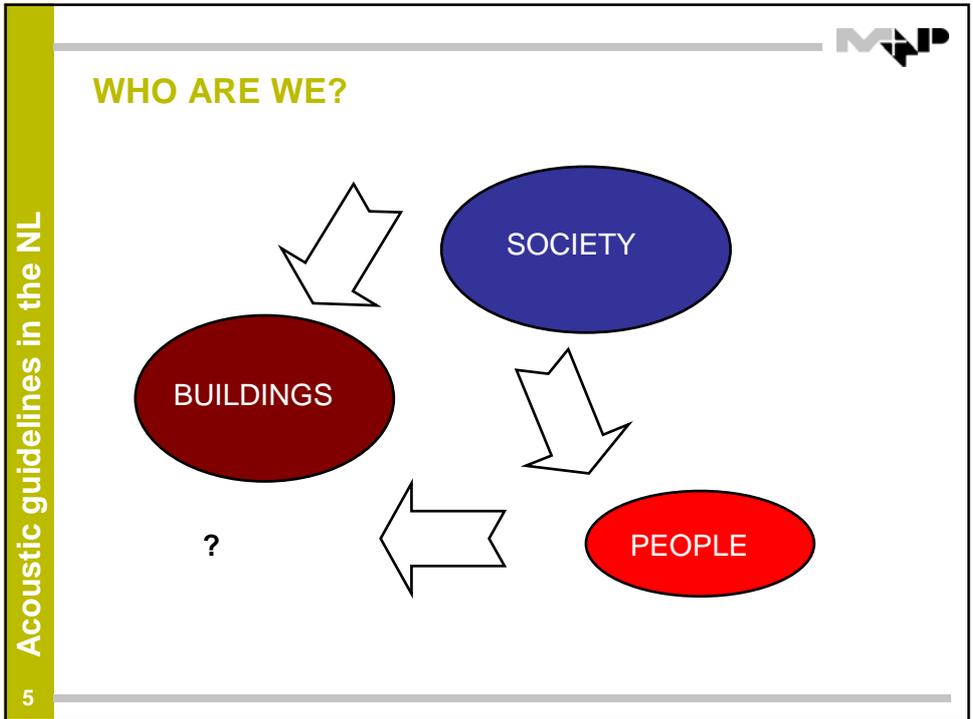
- We like trends:

TREND STYLES:

- OGH Organisatie Gericht Huisvesten
 (Organization Focused Accommodation)
- HNW Het Nieuwe Werken
 (New Work, Working New Style)

GOALS:

Efficiency – Productivity -Flexibility



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THE WORKING SPACE

NEW WAYS

JUST CEILINGS
???

OPEN OFFICE

CONCENTRATION CELL

MEETING PLACE

LOUNGE

REGULATION.. ?

8 Acoustic guidelines in the NL

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GOVERNMENT & GUIDELINES

- cutting budgets
- cutting short on expertise
- managing processes and people:
*yearly putting out 57 billion to tender (57.000.000.000!!);
(buildings, goods or services)*

Conclusions:
*needs for good guidelines
& measurement tools!!*



GOVERNMENT & GUIDELINES

Dutch Governmental Guidelines (1999)



Processturing en redactie:



This year new guidelines

- Dutch Government Building Agency (Rgd)
- leading Dutch consultancies

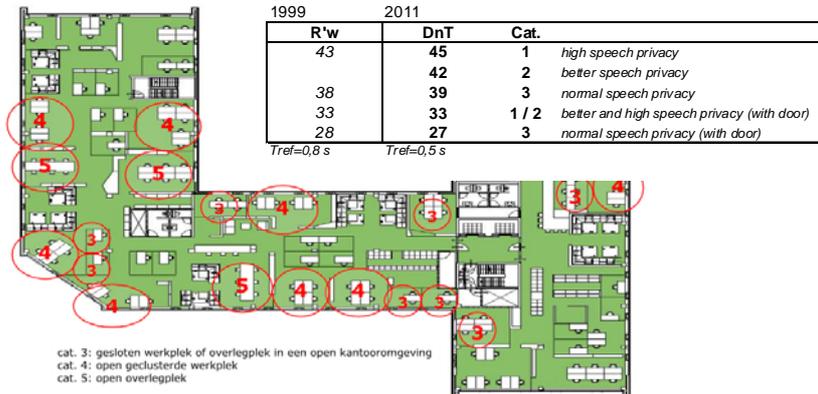
Release of:
Handbook Building Physics Quality for Offices (BKK)



GOVERNMENT & GUIDELINES

'old' cat. 1-3: traditional offices

$DnT = 39 - 45 \text{ dB}$



'new' cat. 4-5: open plan offices
 $DL2s = 5 - 11 \text{ dB}$

Handbook BKK



GOVERNMENT & GUIDELINES

cat. 4: cluster work space

DL2s = 5 dB
(‘normal’ office interior)

cat. 5: meeting space

DL2s = 11 dB
(screens needed)



Handbook BKK

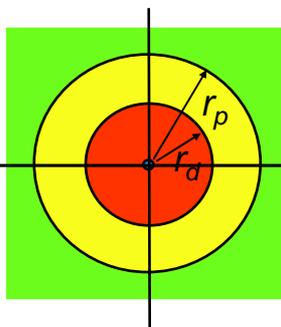


GOVERNMENT & GUIDELINES

draft norm ISO3382-3:

“Acoustics – Measurement of room acoustic parameters – Part 3: Open plan spaces”, 2009

→ GIVEN AS RECOMMENDATION:



STI	Speech privacy	Benaming
> 0,5	none	-
< 0,5	none, but less distraction	r_D (distraction distance)
< 0,2	good, no distraction	r_P (privacy distance)

Handbook BKK

DUTCH OFFICES: PRACTICAL



- mix open / closed
- very flexible
- not too big, width max 20 meter
- a lot of diversity!!



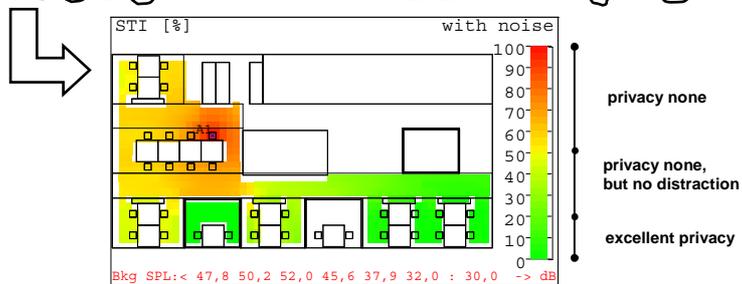
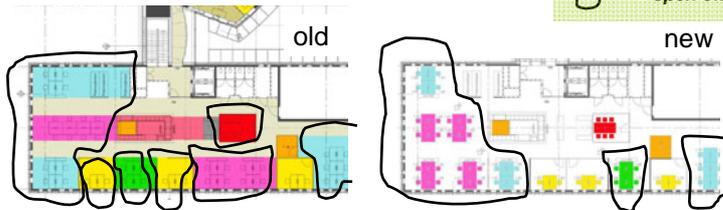
- 1 luid interactief (loud interactive)
- 2a normaal interactief (normal interactive)
- 2b rustig interactief (quiet interactive)
- 3 rustig individueel (quiet individual)
- 4 stil (quiet)

Example: offices city hall Heemskerk

DUTCH OFFICES: PRACTICAL



= open offices



Example: offices city hall Heemskerk