







Responses to the covid-19 pandemic – summary of a questionnaire survey

Lars Ekberg

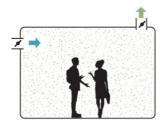
https://www.buildingspostcorona.se/

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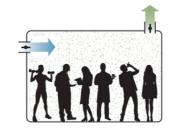


Factors influencing disease transmission indoors

Which factors are important?







III. Morawska, L. et al. (2021)

Which can we influence successfully?



Questionnaire to the real estate sector

Impact of actions implemented as a response to the corona pandemic

- · How were your ways of working affected?
- Guidance from authorities and trade organizations?
- · Actions?
- Benefit/use?
- Was it worth the effort?

We want to learn from the past to be better for the future!



The survey https://www.kth.se/form/6268ff115f387cf0ec9ebf2e

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The respondents work with

•	Health care	13
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The respondents are

23% Real-estate owners	
17% Building operators	
14% Technical property mana	agers
9% Developers/procurers	
9% Contractors	
6% Consultants	

and...

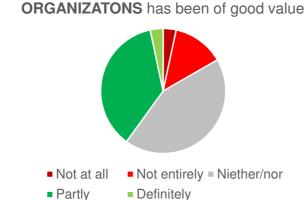
- · Tenant representatives
- Technology informant
- · Sustainability strategist
- Process developer real-estate
- Researcher

75% have more than 5 years experience 46% more than 10 years

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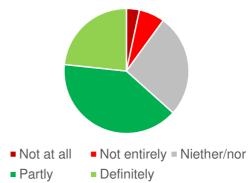
Some of the questionnaire results, so far...



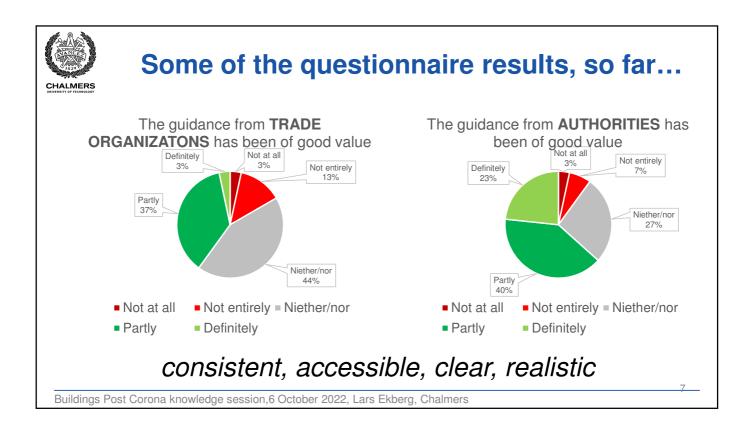
Partly

The guidance from **TRADE**

The guidance from **AUTHORITIES** has been of good value



consistent, accessible, clear, realistic



CHALMERS

Some of the questionnaire results, so far...

Actions undertaken Cleaning, hand hygiene, #people etc. Ventilation etc. Only ventilation No actions Guidance followed from	Fraction 71% 43% 14% 5%
Guidance followed from	Fraction
 Public health auth. 	94%
 Work env. auth. 	49%
 Building code auth 	20%
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Actions implemented...

- Changed routes of people movement for less person-to-person contact
- Reduced presence by people

Limited nr. of people Would you want to attend a workshop addressing issues like this?

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Further actions implemented...

- Earlier start of the ventilation before people arrive
- Later stop of the ventilentilation after people have left
- Increased ventilation rates
- Improved ventilation control
- Fixed ventilation rates, by blocking demand control
- Stopped return air for 100% outdoor air supply

- Room air cleaners

Reduced air leakage fi Would you want to attend Better air filtration in ce a workshop addressing issues like this?



... and some more...

- Reduced air movement between different building parts by keeping doors shut
- Added an air-lock function
- Changed room-pressurization
- sufficient; which is wa
- No actions

No changes, but eval Would you want to attend a workshop addressing issues like this?

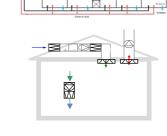
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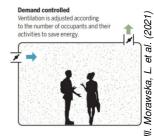


The questionnaire provides some examples

How can we do it right every time?

- Learn from the good examples
- Verify the function/efficiency
- Know the prerequisites
- Be systematic







Concluding remark

Harmonize the guidance

Authorities and trade assoc.

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Ideas?

Questions?

Reflections?

Thank you

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