
Fordele ved
sensor teknologi
i kontormiljø
postnord

PostNord kort fortalt

37,7 mia. SEK
omsætning

129 mio. SEK
Justeret driftsresultat

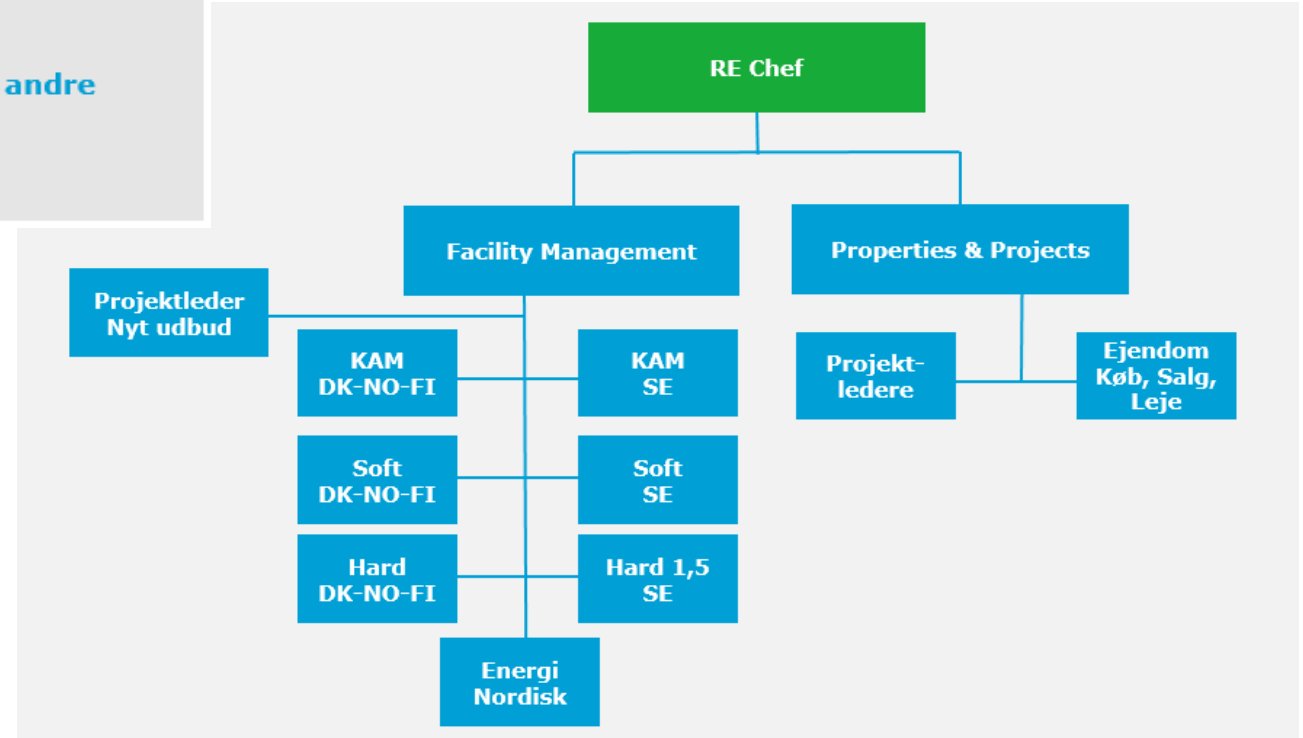
7.000
udleveringssteder i Norden

171 mio. pakker

30.000
Medarbejdere

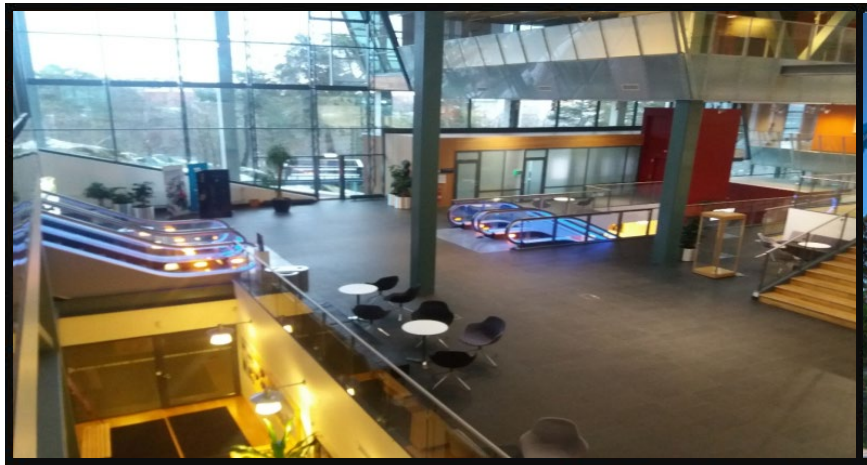
3,3 mia. breve og andre forsendelser

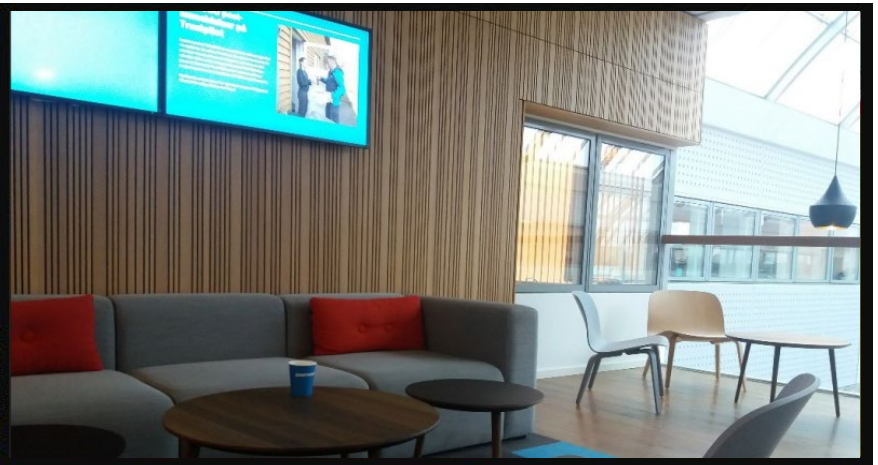
- 30.000 ansatte
- 500 ejendomme
- 8 ansatte i FM's nordiske team
- 4 lande
- 1 Integreret Facility Management kontrakt



Our story

postnord





postnord

ABOUT

• PostNord is the leading supplier of communication and logistics solutions to, from and within the Nordic region. Active in the Nordic countries and has more than 30.000 employees

• PostNord has within the last few years modernized and implemented activity based workplaces in their two main office buildings with a total of 18.000 m2

• 1500 employees and visitors are in the two buildings on an average day.

CHALLENGE

• Staff in specific home bases complains about work space availability.

• Estimation of workplace needs based on calculated ratios is insufficient.

• Lack of project rooms and meeting rooms are booked and misused as workplaces.

• Detailed occupancy data is needed to make informed decisions on work space allocation and to provide the right mix of space types for the future

SOLUTION

• Installation of 624 wireless sensors in H.88 - under every desk, in meeting rooms and 36 door sensors for toilet rooms.

• Capture real time occupancy data and getting insights into space usage trends. Data analysis and consultancy by supplier experts on adhoc level

• Change of the clean desk rule from two to one hour.

•Experiences from the H.88 installations are used to evaluate if a Arken roll out is beneficial.

RESULT (EXPECTED)

• Identification of home bases where the ABW concept needs repetition

• Reliable insights into space usage trends and evaluate / optimize the space mix.

• More efficient use of the office facilities available i.e. by mowing more people to H.88 and resign unnecessary m2 . Approx. 20% of office space has been resigned including significant saving.

• Valuable insights into IoT tool usage, which can be used to optimize existing and new PostNords HQ.

Traditional tilgang

- Manuelle optællinger / opgørelser af arbejdsplads belastninger 2 gange om året (10 optællinger, 2 gange om dagen over en arbejdsuge)
- August – arbejdspladsbehov defineres for efterfølgende år – behov indgår som omkostningsfordeling i budgetterne
- Arbejdspladserne fordeles efter det forventede behov

	Stuen		1. sal		2. sal				3. sal				
Homebase	C0	C0 Bib	A1	C1	A2	B2	C2	D2	A3	B3	C3	D3	Total
Tidspunkt \ Antal arbejdspladser	**22**	**8**	**46**	**51**	**53**	**50**	**42**	**56**	**50**	**48**	**48**	**50**	**524**
DD.MM.2019 FM													0
21.01 10.00	13	7	12	12	16								
21.01 13.30	11	6	14	14	22								
xx													
22.01 10.00	12	9	14	8	21								
22.01 13.30	12	5	17	8	20								
xx													
23.01 10.00	16	7	17	10	21								
23.01 13.30	16	12	15	9	23								
xx													
24.01 10. 00	10	9	14	12	18								
24.01 13.30	13	8	12	16	19								
xx													
25.01 10.00	15	11	16	14	21								
25.01 13.30	14	12	17	16	21	6	16	13	15	31	4	12	
xx													0
xx													0
Gennemsnit 30 målinger	13,2	8,6	14,8	11,9	20,2	6,1	16	14,1	12,3	28,6	5,4	15,5	166,7

ANTAL MEDARBEJDERE I HOMEBASE / AFD.

A3	48 Antal arbejdspladser i homebase				
Fix	1	10	7	11	7
Mix	2	1	1	1	1
Flex	0	0	0	0	0
Sum u ratio	3	11	8	12	8
sum med ratio	2,4	10,7	7,7	11,7	7,7

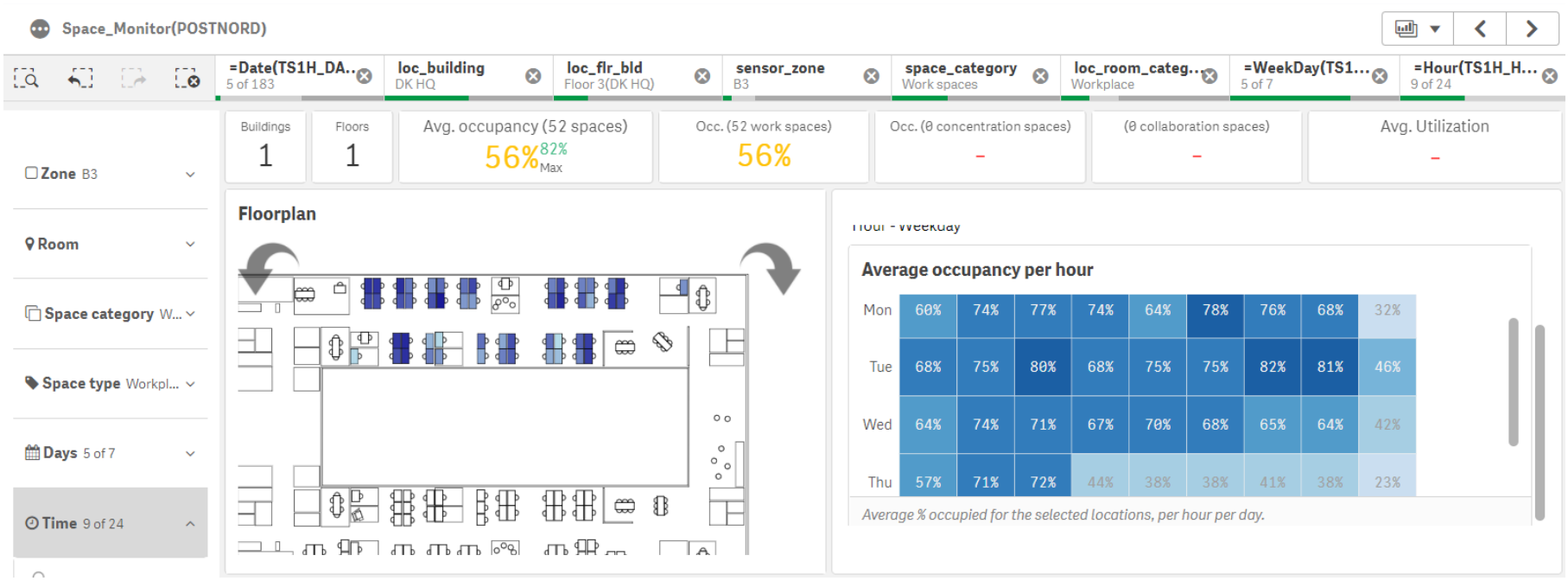
A2	53 Antal arbejdspladser i homebase		
Fix	29	4	14
Mix	7	0	5
Flex	4	0	4
Sum u ratio	40	4	23
sum med ratio	35,9	4	19,5

Pilot

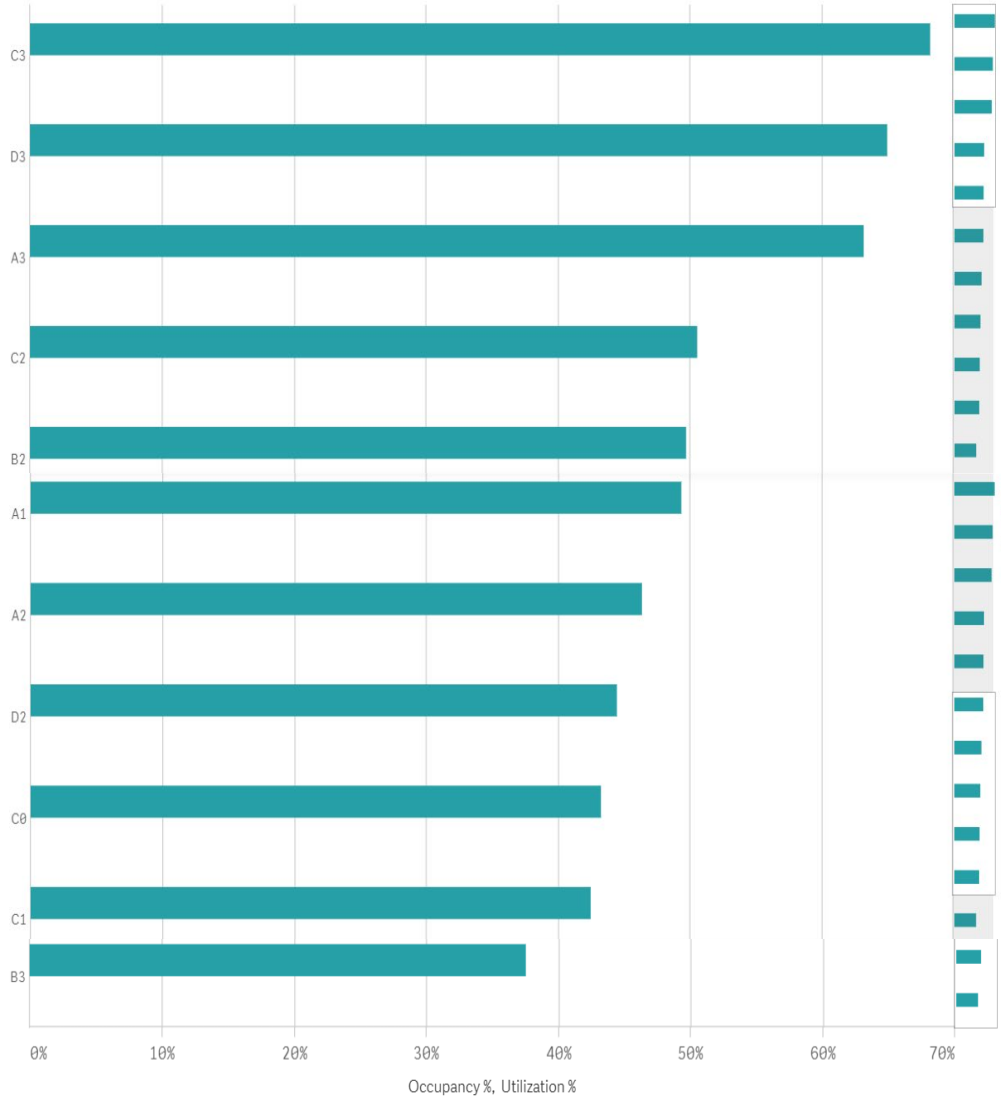
- Juli 2018:
  - Site visit hos en sensor leverandørs kunde
- September 2018
  - Installation af sensorer under 51 skriveborde, 3 mødelokaler og 3 toiletrum (i HQ Arken, Solna)
- Test periode:
  - Fra september 2018- Januar 2019

Udruldning

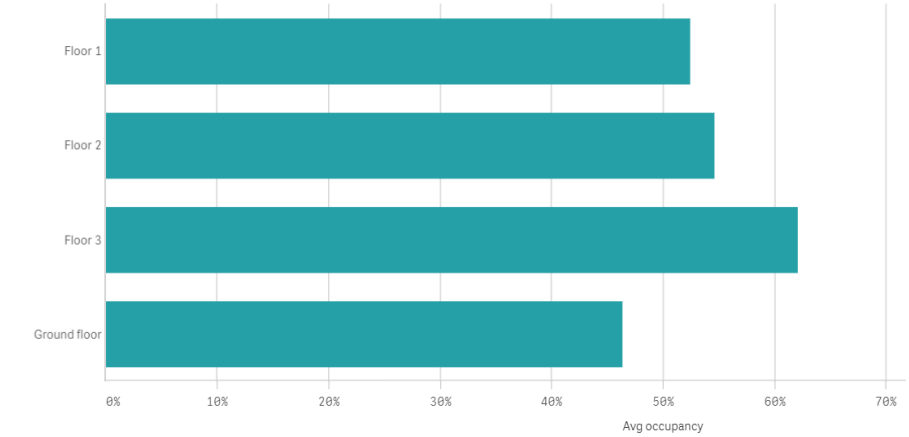
- Juli – August 2019:
  - Installation af 624 sensorer under alle skriveborde, mødelokaler og toiletrum (Kontor i København)



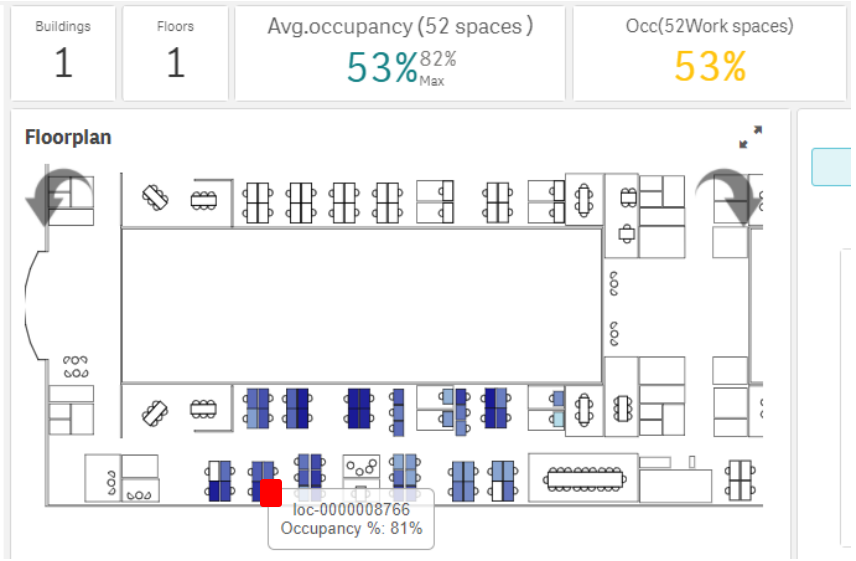
Fakta: Belastning pr homebas / etage

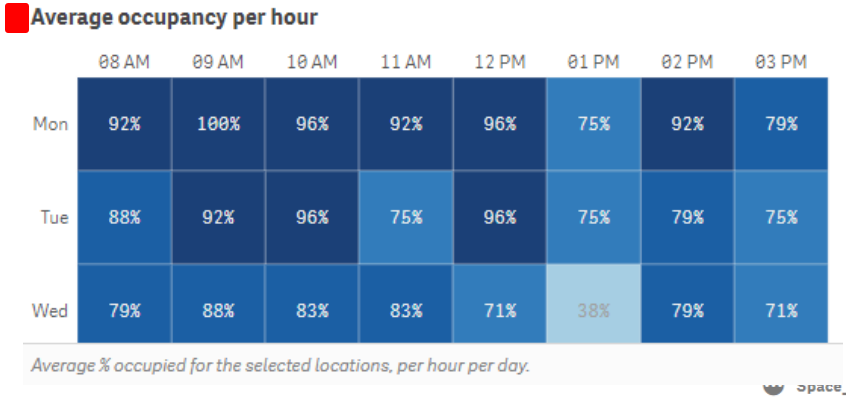


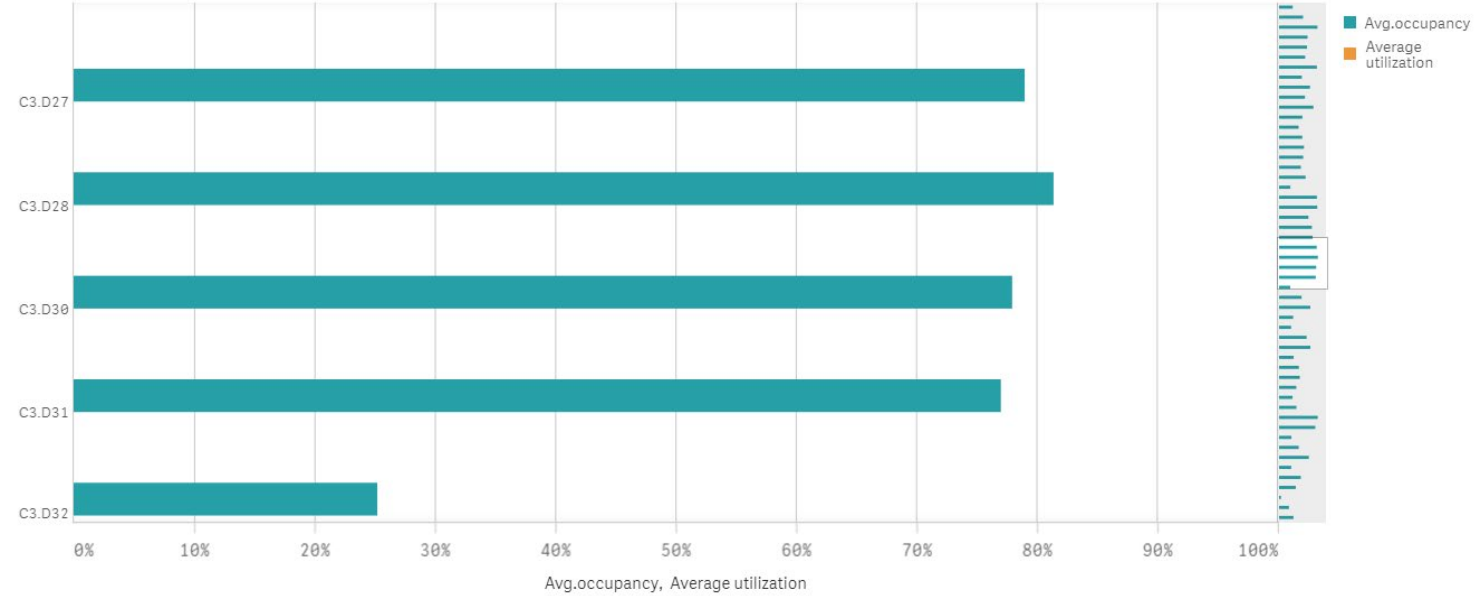
Data for H.88:
9/9 2019 – 11/10 2019
Mandag-fredag 08:00-17:00
Arbejdspladser i alle homebases

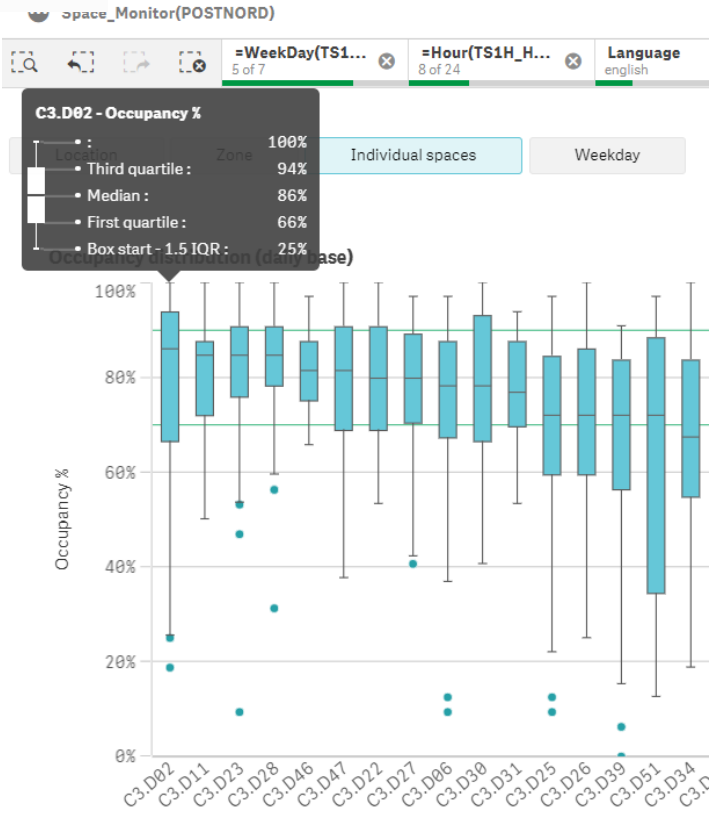


Data - skriveborde



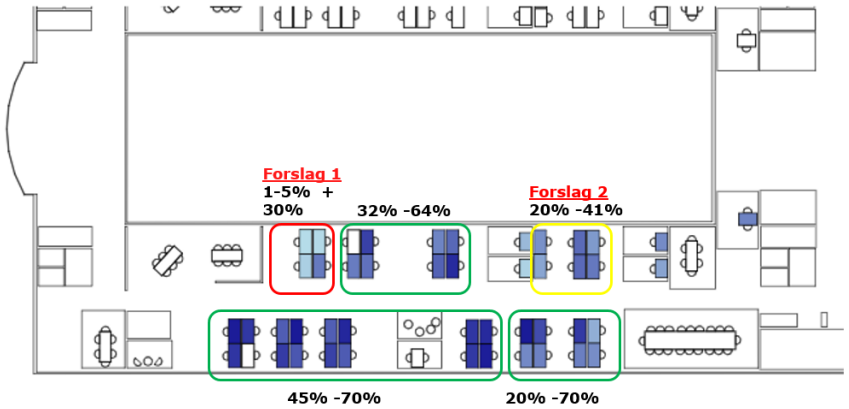






C2 Anvendelse af skriveborde

(på enkeltbord niveau)

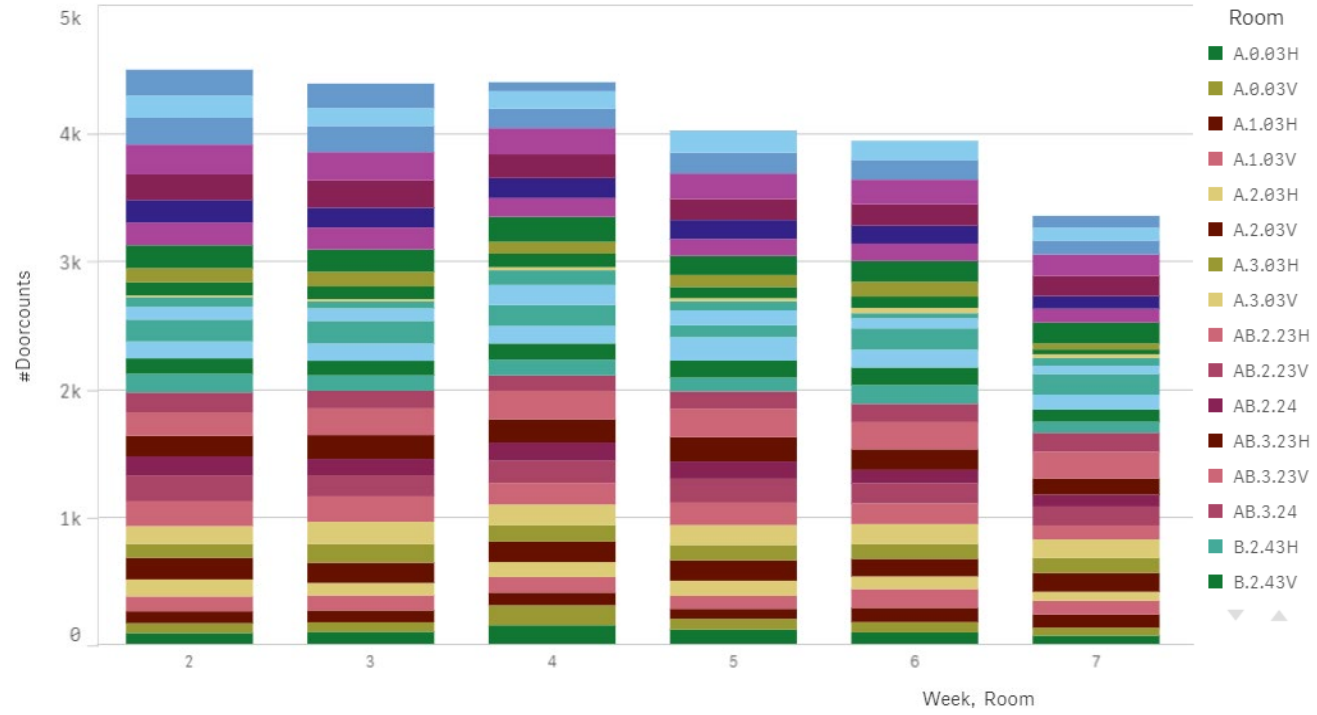


Kilde: Data **fra censorer**
9/9 2019 – 18/10 2019
Mandag-fredag 08:00-17:00
Arbejdspladser i homebase D2

Data - toiletter

postnord

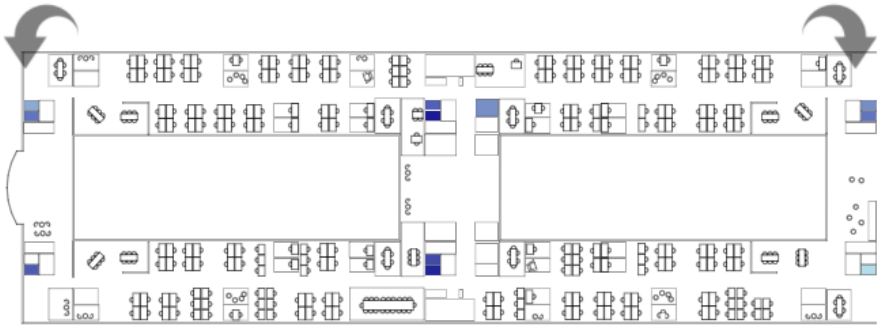
Week & room



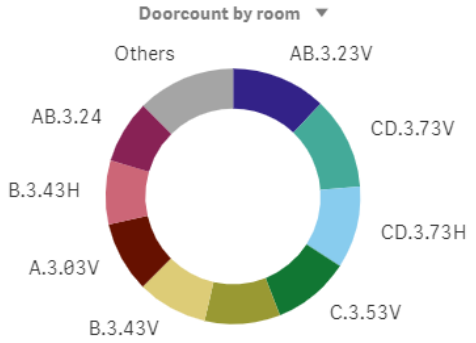
Doorcount by hour/weekday

	8	9	10	11	12	13	14	15	16
Mon	380	534	645	702	697	612	660	619	394
Tue	389	517	611	676	659	627	617	621	419
Wed	339	493	619	659	691	595	582	591	385
Thu	366	449	612	660	640	573	612	604	407
Fri	344	420	555	526	599	545	613	473	227

Floorplan



By room



Benefits

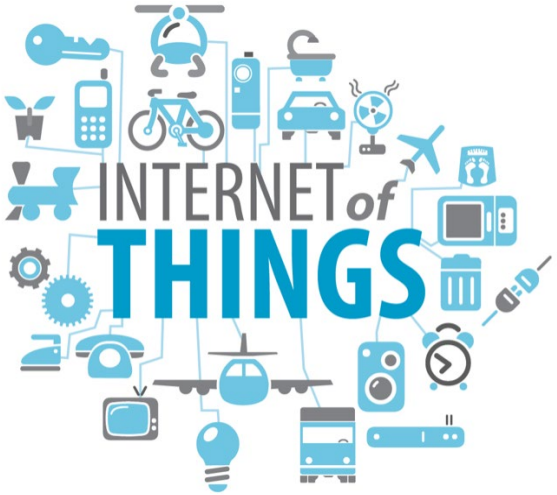
- Økonomi: Delopsigelse af lejekontrakt (Okt. 2019)
  Kort tilbagebetalingstid (husleje, drift, møbler)
- Værktøj: Space management opgaven bliver faktuel baseret
  Adgang til historiske og on-line data
  Nemt at skabe space management løsningsforslag
- Diskussioner: Fra følelser / opfattelser til fakta
- Beslutninger: Kombinationen af ledelsesviden og belastningsfakta skaber stærkt fundament for beslutninger
  Risici i beslutninger minimeres pga. data

Reflektioner

- Hvorfor skulle i arbejde med sensorer
- Hvilke benefits forventer i at opnå
- Hvem skal arbejde med data fra systemet
- Kan i løse jeres udfordringer uden sensorer

- Uden activity based workplaces / flexible seating, kan ansatte og andre interessenter med rette opfatte sensorer som et overvågningsværktøj.

- Sensorer løser ikke alle jeres space managment problemer
  - De angiver ikke årsager
  - De kender ikke fremtiden
  - De tager ingen beslutninger



- Hvornår er de brugbare
  - I en eksisterende ejendom
  - Inden i skal flytte til en ny ejendom

- Vil jeg anbefale jer at arbejde med sensor-teknologi i kontormiljø?