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Tilojen käyttöasteen mittaaminen ja tiedon
hyödyntäminen - enemmän vähemmällä?

Agenda



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1. Yleiskatsaus työympäristökehittämiseen
2. Nostoja Toimiva Työympäristö - raportista
3. Tilankäytön mittaaminen
4. Q&A

0 WASTE

Miten?



Tilankäyttömittaukset
Sensoreilla & Havainnoinneilla



Työympäristöselvitykset

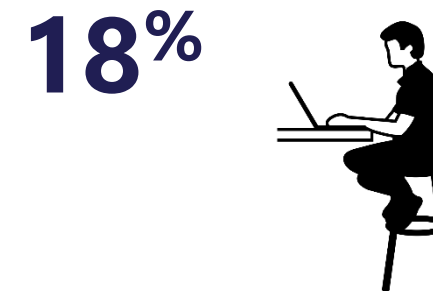
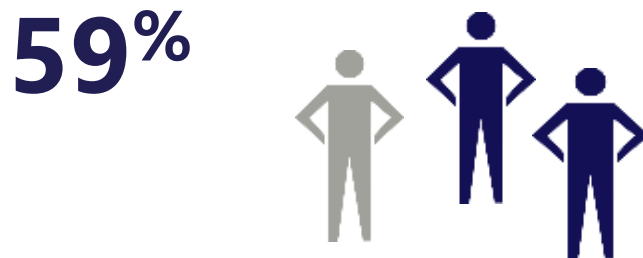
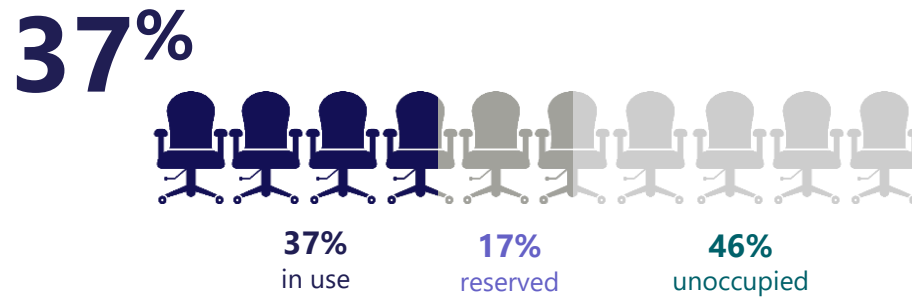


Älytoimistoratkaisut

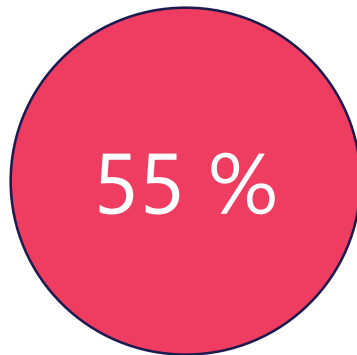


Työympäristövertailuja
& -näkemyksiä

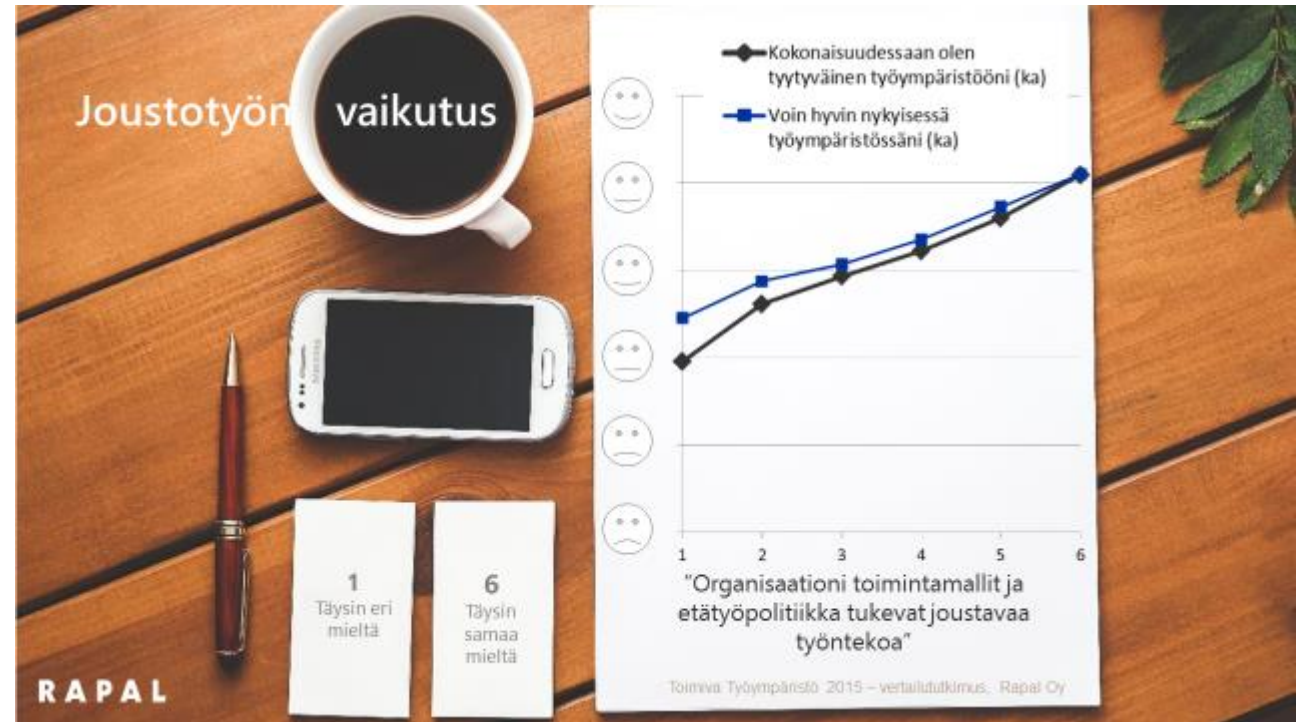
Työ on muuttunut



Työympäristön merkitys

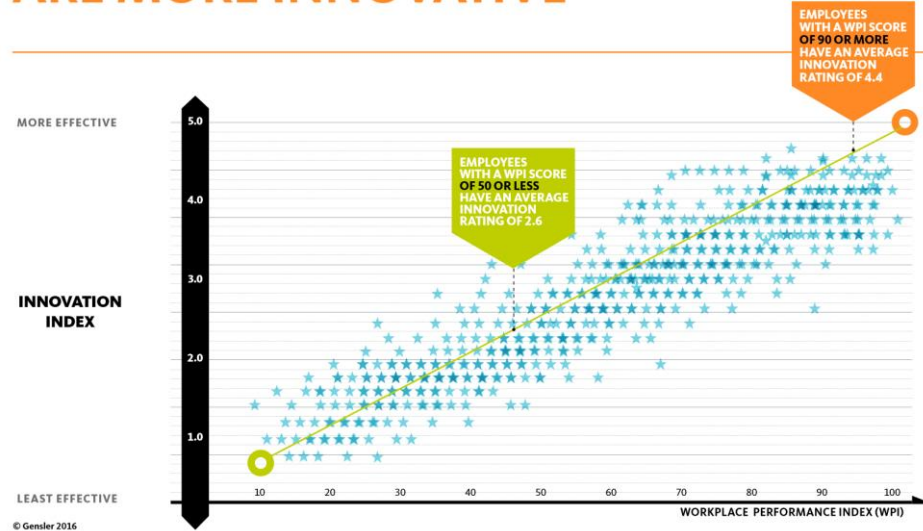


Työntekijöistä kokee, että he ovat tuottavia omassa työympäristössään

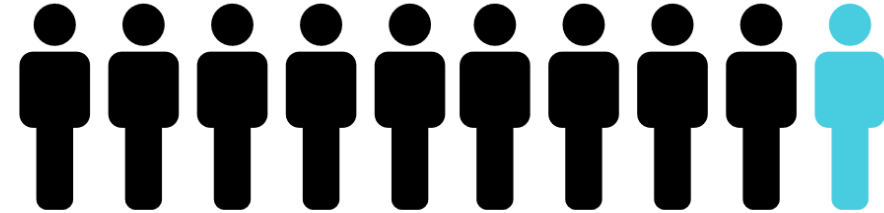


Panostaminen työympäristöön kannattaa

HIGHER-PERFORMING WORKPLACES ARE MORE INNOVATIVE



PRODUCTIVITY



» NOTE

9 out of 10 respondents believe that workplace design helps their productivity.

The 2019 Report

Optimize Workplace Review 2019

www.rapal.com/fi/toimiva-tyoymparisto-tutkimus
www.rapal.com/optimize-workplace-review

Downloadable PDF –report

- **17 countries** (2014 to 2018)
- **460 buildings**
- **1,8 million m²** (19,7 million ft²)
floor area
- **136,200 workstations**
- **12,600 meeting spaces**
- **88,200 meeting seats**
- **54,600 other seat types**

1792 workplace studies

46,400 walkthrough rounds

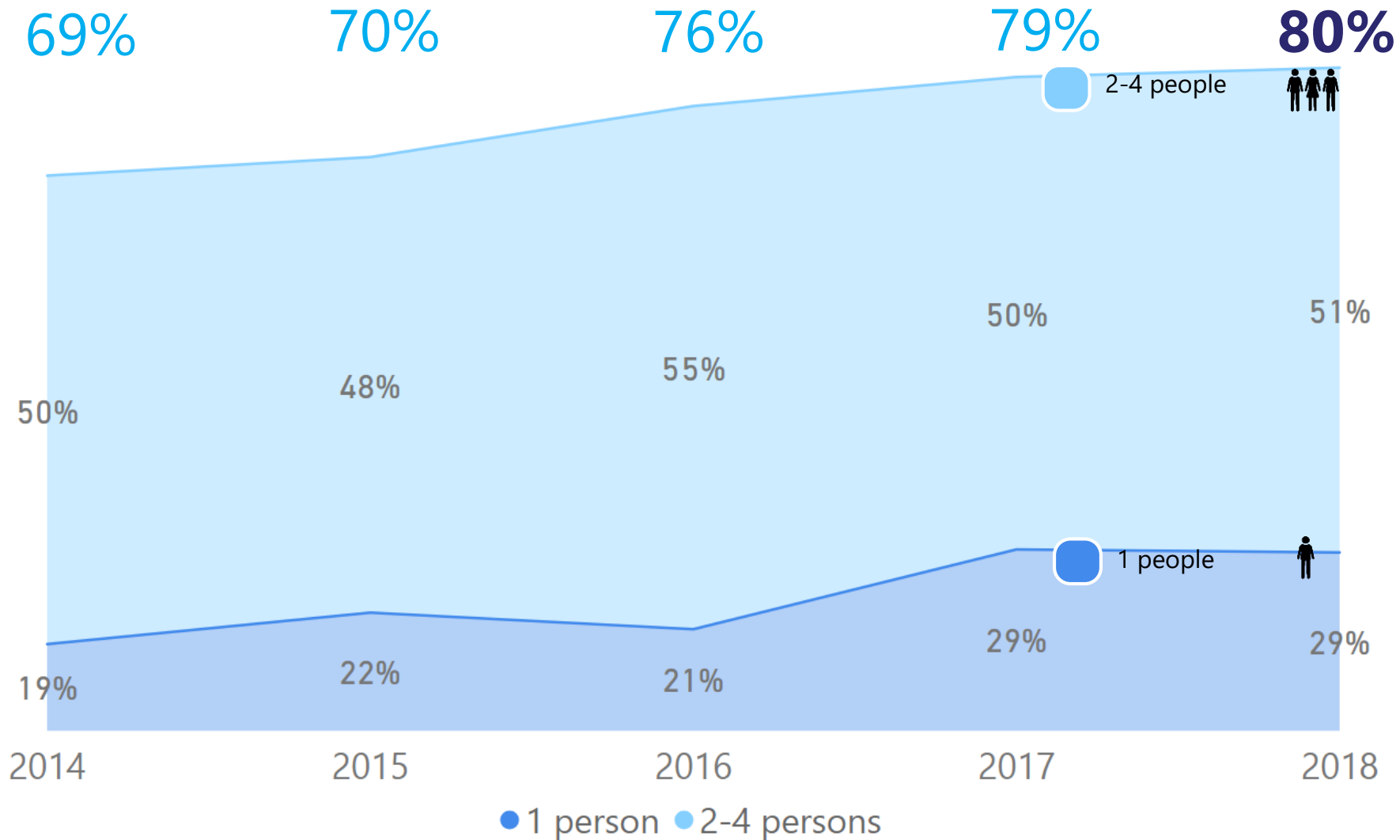
7,5 million observations

Meeting Culture

Optimize Workplace Review 2019

1792 workplace studies
revisited

On-site meeting sizes keep getting smaller every year



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The Digital Workplace

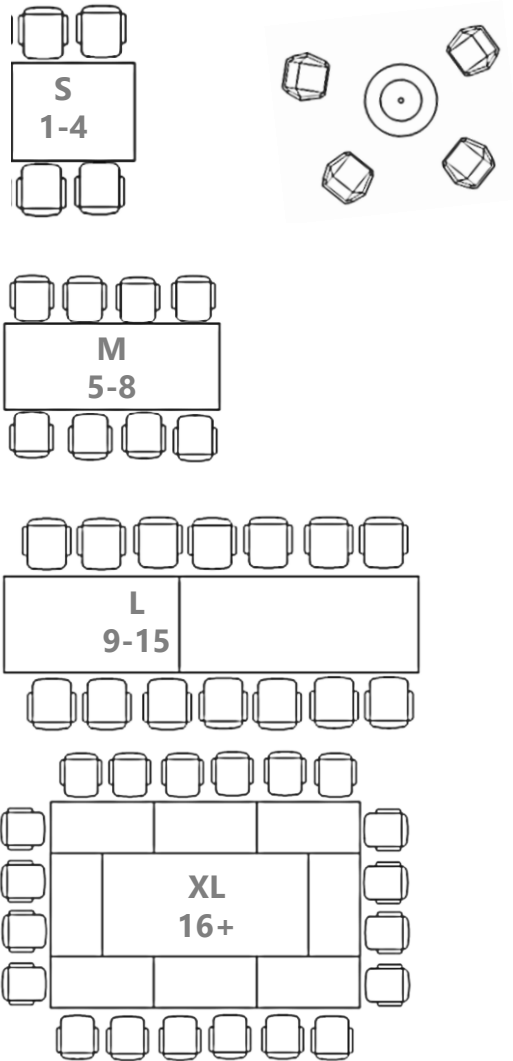
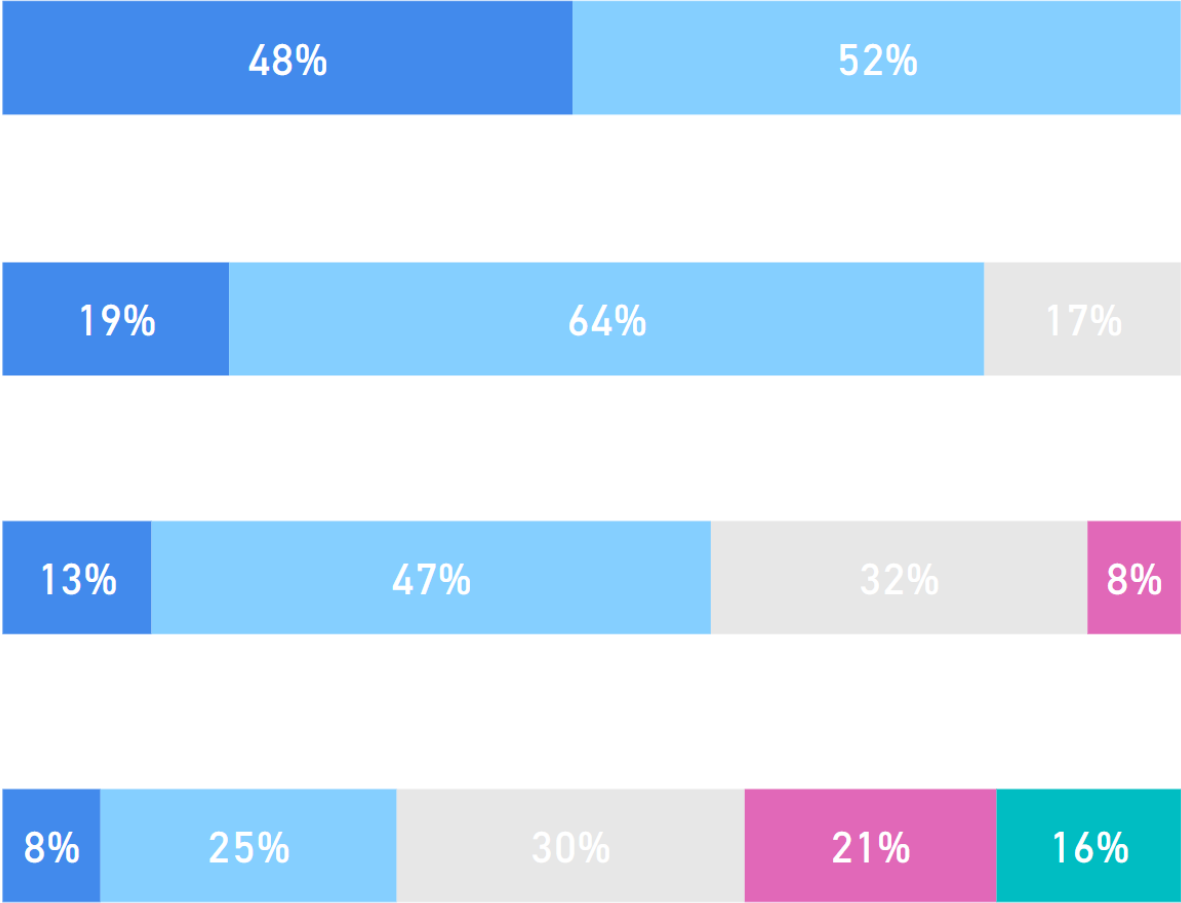
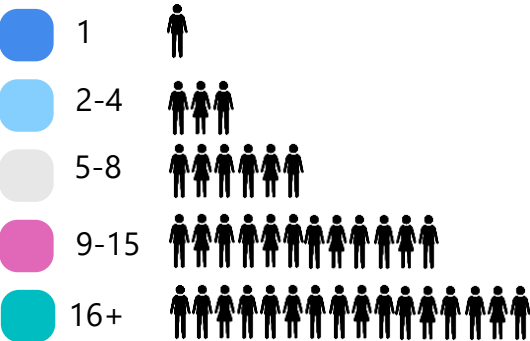
has landed at the office big time, due to online –meetings and other knowledge sharing tools

29%

of all meetings in 2018 held only **One Person in the Room.**

Right-sizing meeting spaces

Large meeting spaces are rarely used to their full capacity



Work seats

Optimize Workplace Review 2019

136,160 work seats revisited

Utilization rate of work seats, 5-year average

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55%

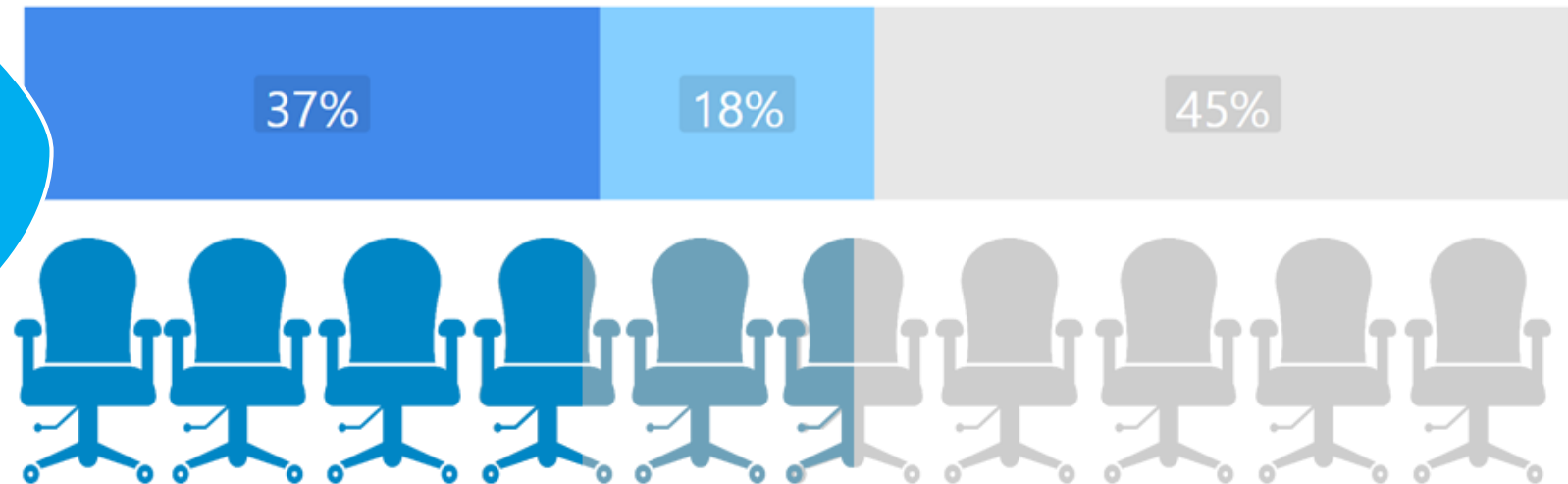
of desks were in use on average

(2014-2018)

ALL OFFICE TYPES USE WORK STATIONS **JUST AS MUCH.**

27,5%

of all workstations were empty at any given time

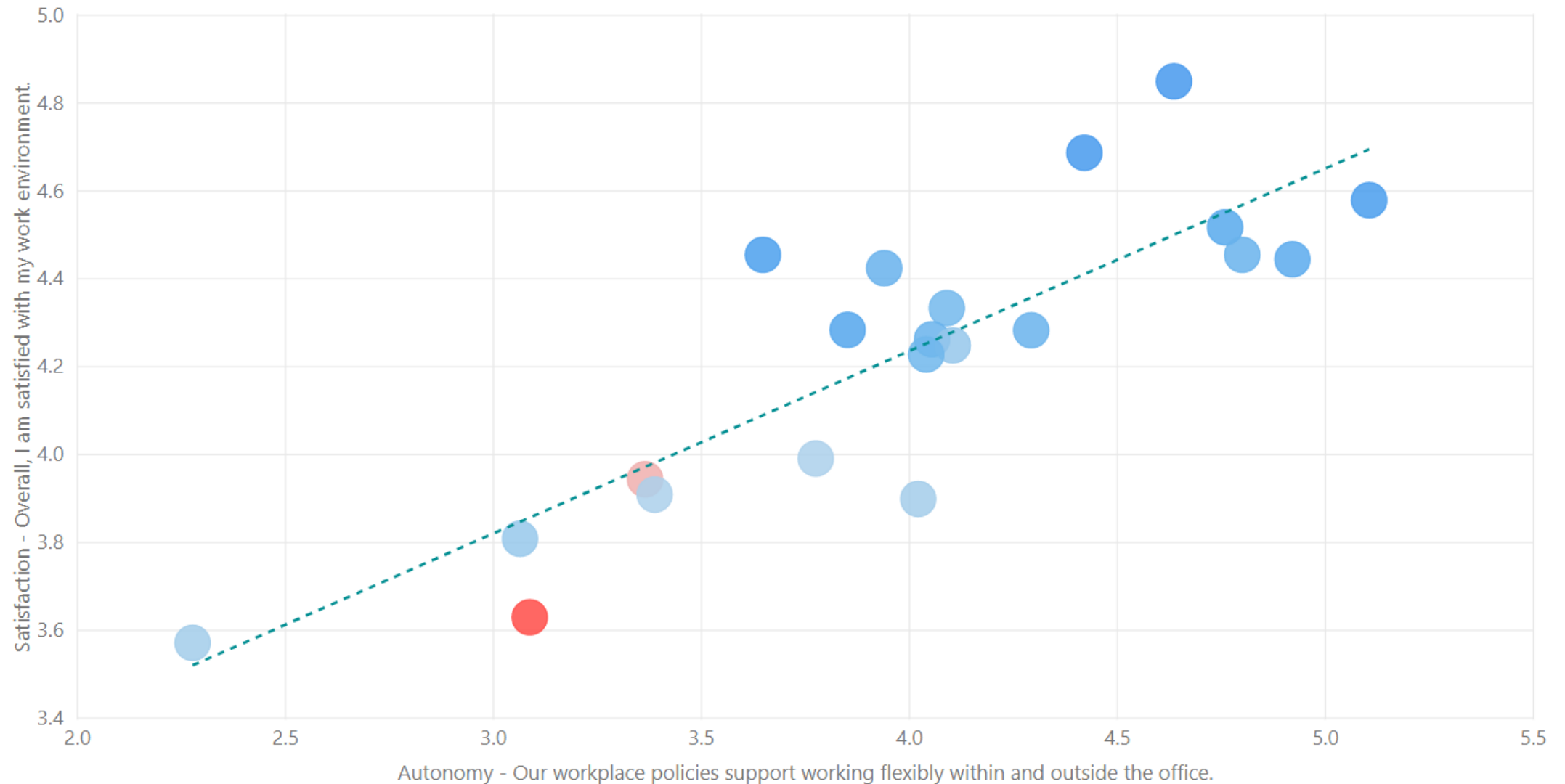


● Occupied ● Reserved ● Empty

Work culture

Optimize Workplace Review 2018

Enabling autonomy equals better well-being and satisfaction



So What?

Global Perspective

Buildings

KEY POINT

Buildings final energy demand increased by 5 EJ from 2010 to 2016 as energy-efficiency efforts have not kept up with rising floor area.

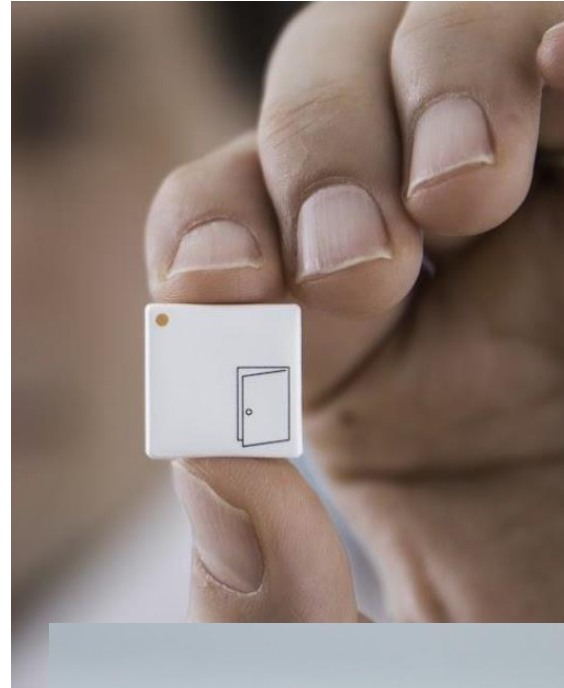
Buildings account for **36%** of global final energy-related carbon dioxide (CO₂) emissions when electricity generation is included¹.

Progress towards sustainable buildings and construction is advancing, but improvements are still not keeping up with a growing buildings sector and rising demand for energy services. The energy intensity per square meter (m²) of the global buildings sector needs to improve on average by **30% by 2030** (compared to 2015) to be on track to meet global climate ambitions set forth in the Paris Agreement.

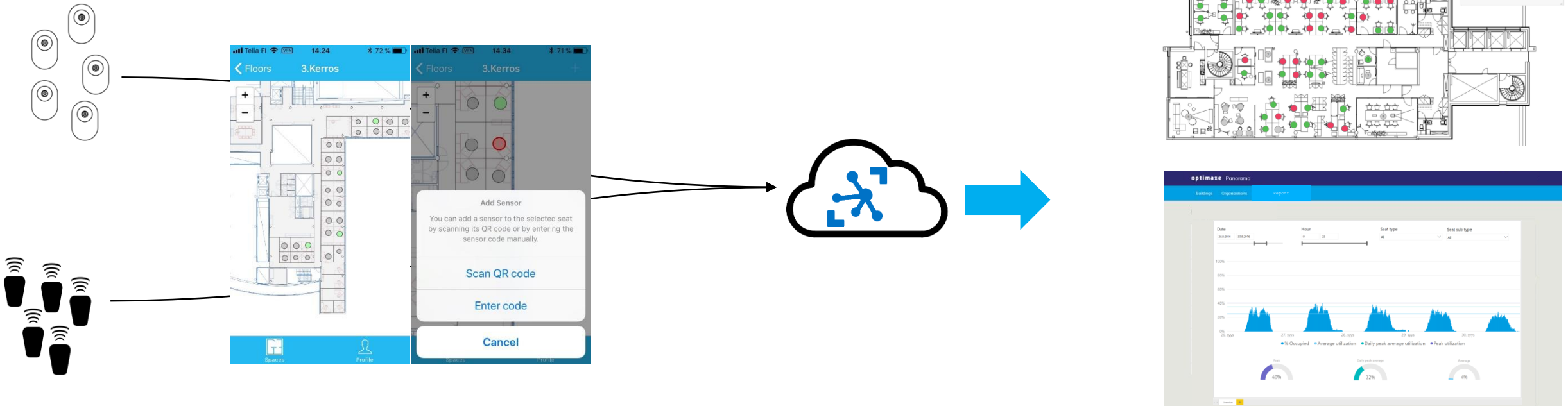
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Tilankäytön mittaus

Erilaiset ratkaisut käyttötarpeen mukaan



Valmistajasta riippumaton sensorituki



- Nopein ja helpoin sensoreiden asennus
- Testatut sensorit kumppaniverkoston kautta

- Microsoft Azure IoT työkalut tiedot tallentamiseen

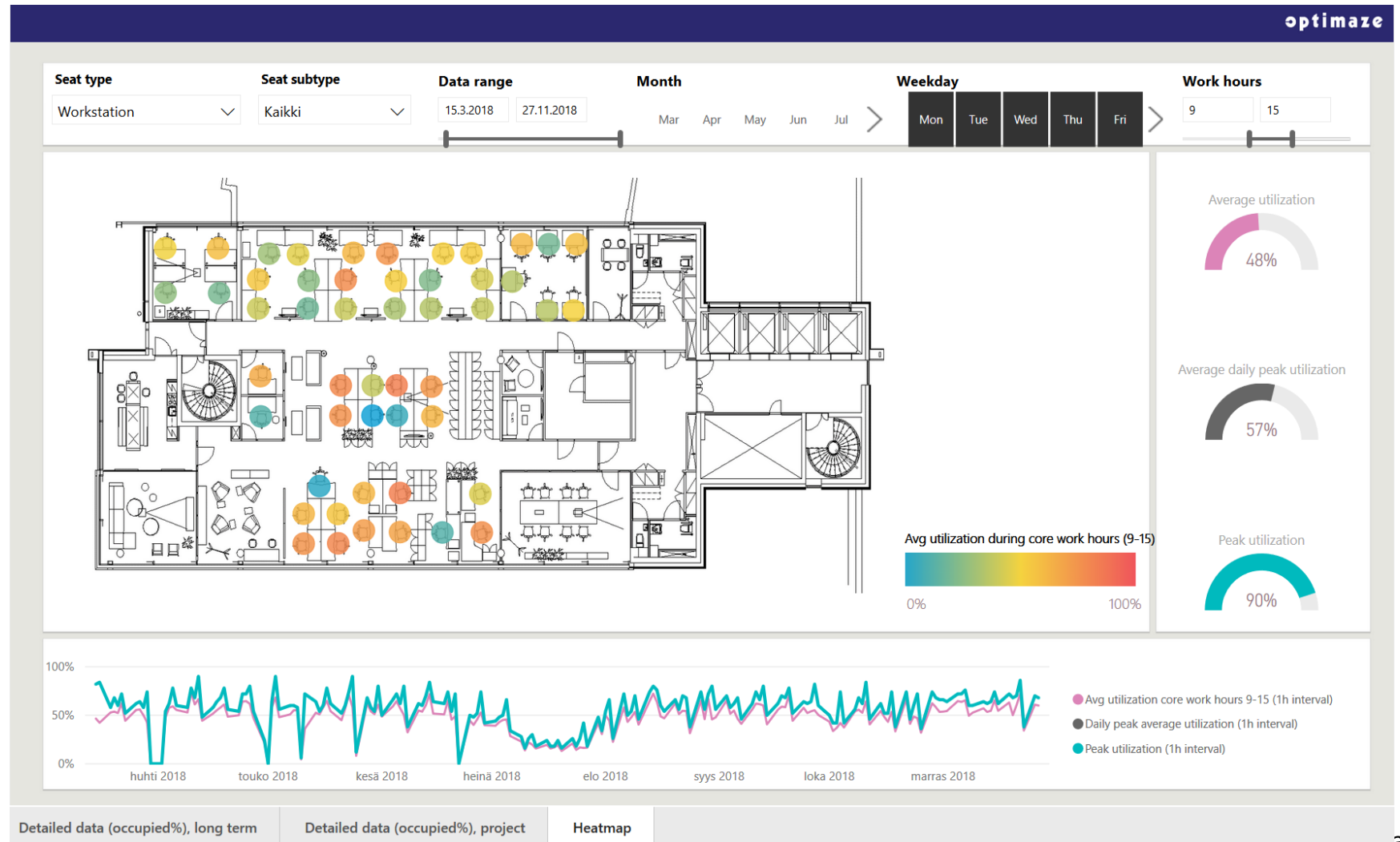
- Sensoritiedon visualisointi käyttäjille

Reaaliaikainen tieto tilojen käytöstä



Tilojen käyttöasteiden raportointi

Päivittäinen tieto ja trendit tilankäytöstä tallentuvat ja työympäristöstä vastaavat voivat tehdä perusteltuja päätöksiä tilajakauman kehittämiseksi.



Sosiaali- ja terveyssektorin sovelluskohteet

- Toimistotilat
- Case työterveyshuolto
- Vastaanottohuoneiden tilankäytön arviointi
- Haaste: Toimintatapojen muutos!