4 ways to use space booking and occupancy data to inform hybrid working

Sharing best practices

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In today's session we'll cover

- Emerging trends in workplace strategy and design in response to COVID19

- The challenges that introducing hybrid working poses

- The role of occupancy, booking and environmental data in safely bringing employees back into the office

Questions

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Feedback

David Attwell Thomas
Business Operations

OpenSensors

Today's speaker

Yodit Stanton
CEO & Founder of OpenSensors

Yodit has designed and built large scale data systems for various sectors and has played a key role in leading development teams to run critical trading and machine learning infrastructure for FTSE 500 companies such as Deutsche Bank, Man Investments, Nomura and Lehman Brothers.

With over two decades of experience as a Data and Machine Learning Engineer, Yodit specialises in predictive modeling for real time systems, social network analysis and middleware development.

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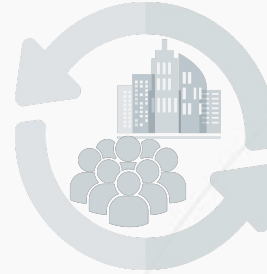# What trends are emerging globally as businesses reopen?

Employee behaviour & expectation

Space restrictions & re-design
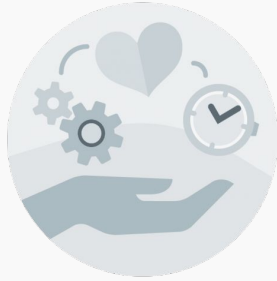
Remote work
Corporate responsibility
Training & development

Health and safety
Introduction of hybrid work environments

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What are the main challenges when introducing hybrid work?

Allocating & designing space	Employee health & safety	Real estate planning & strategy

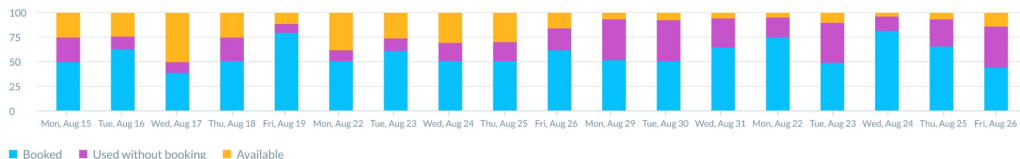|		
Booking systems	**Social distancing**	**Accommodate growth**
Asset monitoring	**Evidence based policy**	**Re-assess portfolio**
Work rotations	**Building health & environmentals**	**Reduce carbon footprint**

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The role of data in overcoming occupancy challenges

Bookings by tag group

Department | Workstation | Asset-group | Asset-type | Direction | Zone | Position

^ Department	⇵ No shows	⇵ Auto cancelled	⇵ Used w/out booking	⇵ Booked and used	⇵ Used at peak capacity
Accounting	10.0%	15.0%	54.0%	20.5%	45 / 60
Business development	5.0%	9.0%	78.0%	10.5%	20 / 30
DevOps	30.0%	30.0%	50.0%	40.5%	19 / 40
Design	10.0%	11.0%	48.0%	20.5%	30 / 60
Product	21.0%	10.0%	36.0%	60.5%	90 / 98
Marketing	28.0%	15.0%	28.0%	73.5%	47 / 50
I&O	11.0%	12.0%	60.0%	30.5%	34 / 40

Capacity over time

65.3% Booked   **21.5%** Used without booking   **13.2%** Available

Mon, Aug 15 · Tue, Aug 16 · Wed, Aug 17 · Thu, Aug 18 · Fri, Aug 19 · Mon, Aug 22 · Tue, Aug 23 · Wed, Aug 24 · Thu, Aug 25 · Fri, Aug 26 · Mon, Aug 29 · Tue, Aug 30 · Wed, Aug 31 · Mon, Aug 22 · Tue, Aug 23 · Wed, Aug 24 · Thu, Aug 25 · Fri, Aug 26
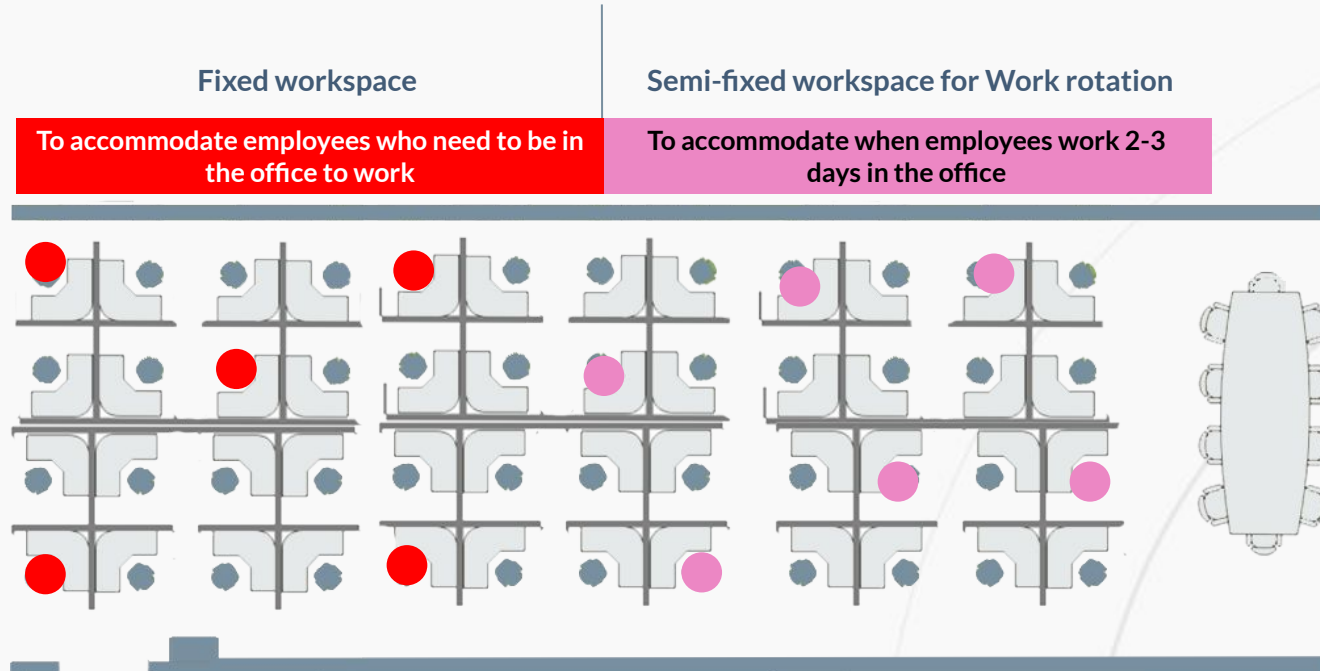
■ Booked   ■ Used without booking   ■ Available

Control & Forecast Capacity
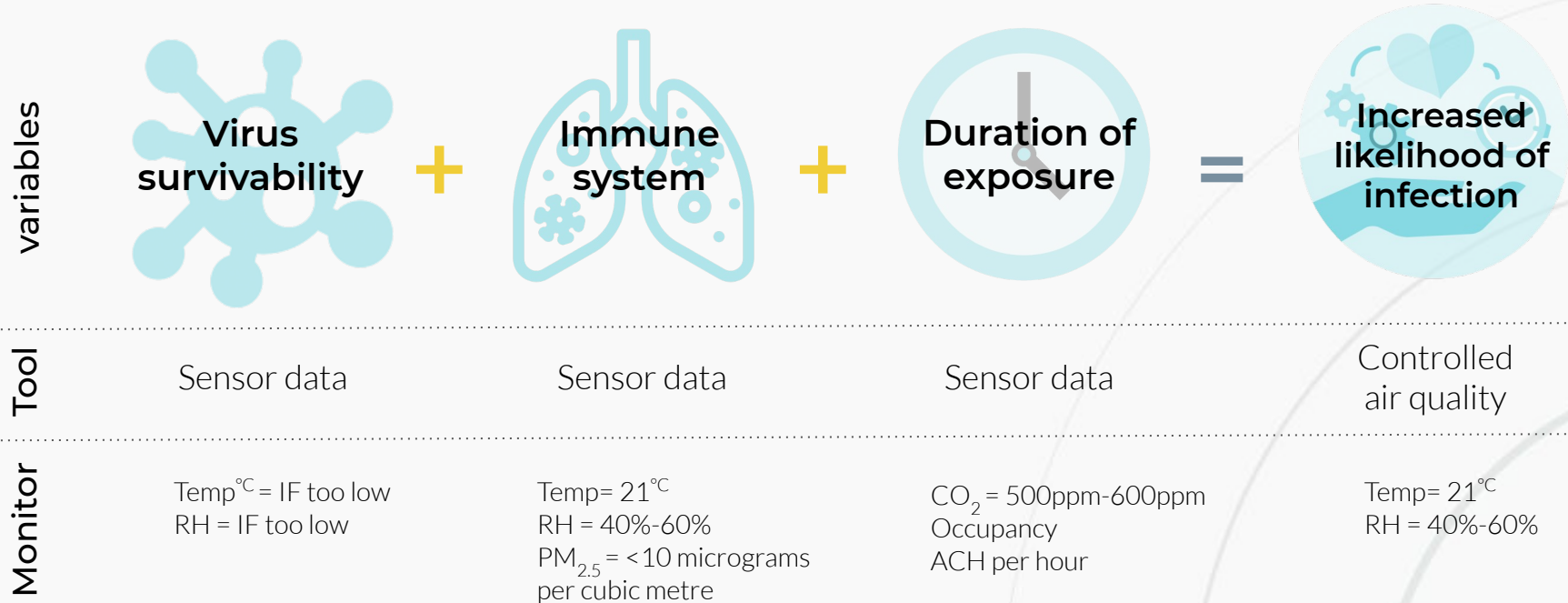Combining booking and occupancy data is critical to managing assets efficiently.

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Mobility profiles - Returning to the office
Differing work patterns, rotation and usage

Fixed workspace

Semi-fixed workspace for Work rotation

To accommodate employees who need to be in the office to work

To accommodate when employees work 2-3 days in the office

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How IAQ can increase the spread of viruses

	Virus survivability	+	Immune system	+	Duration of exposure	=	Increased likelihood of infection
variables							
Tool	Sensor data		Sensor data		Sensor data		Controlled air quality
Monitor	Temp$^{°C}$ = IF too low RH = IF too low		Temp= 21$^{°C}$ RH = 40%-60% $PM_{2.5}$ = <10 micrograms per cubic metre		CO_2 = 500ppm-600ppm Occupancy ACH per hour		Temp= 21$^{°C}$ RH = 40%-60%

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Key takeaways

Health and safety

Leverage booking, occupancy and environmental data in conjunction to ensure your workplace is safe for employees
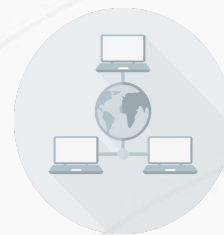
Changing demands on space

Provide your employees with the right variety of spaces by gathering occupancy and booking data to understand their behaviour

Real estate strategy

Make the most out of your buildings and avoid unnecessary expansions by leveraging occupancy data in space planning

Workspace booking systems

Enable your employees to seamlessly access the spaces they require, whilst remaining in control of social distancing guidelines

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Q&As

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