

Advancements in IAQ Technology are Driving Healthy Indoor Environments

April 18, 2024
GBCI Circle 2024











Green Business Certification Inc. (GBCI), the same organization that administers LEED certification, provides third-party certification for WELL.



VERIFIED PERFORMANCE

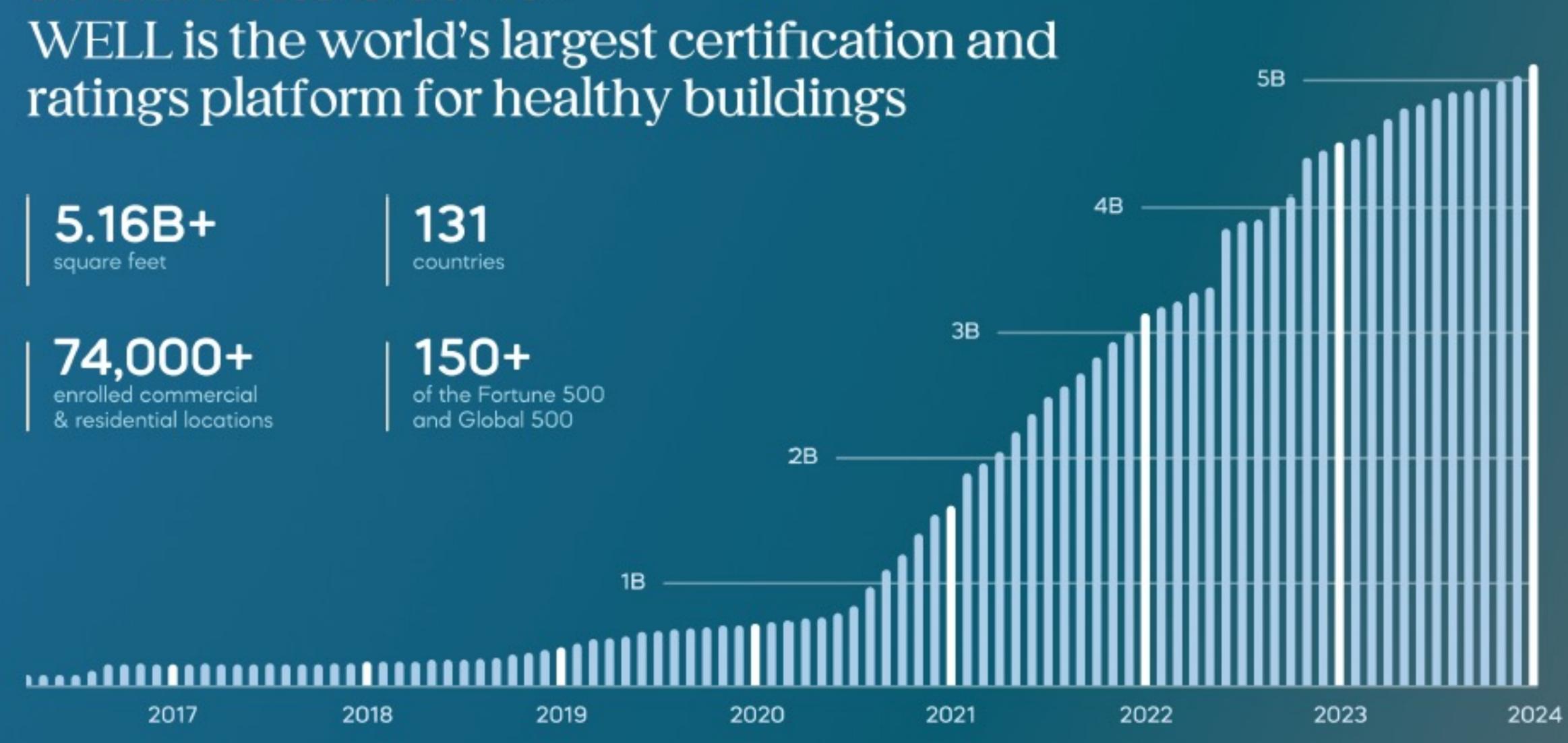
THE WELL DIFFERENTIATOR

Data-driven environmental assessments through onsite testing.

WELL is like a nutrition label for your building, providing transparency & accountability on the performance of your building.



CATALYZING GLOBAL ADOPTION



WELL in Europe

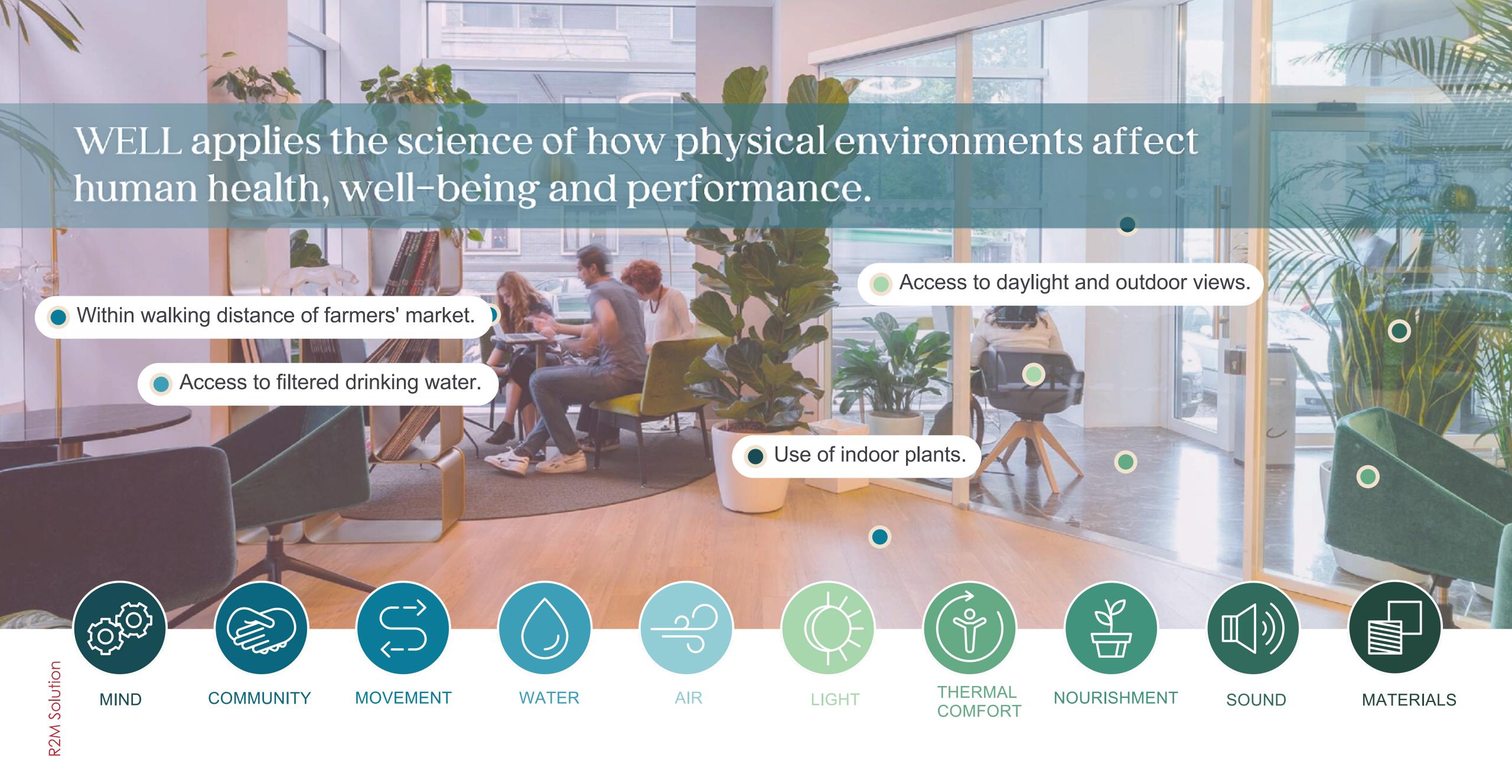
957
Certifications/ Ratings

3,736 Locations

458 million Sq ft

1,122 WELL APs





BEYOND DESIGN INTERVENTIONS

WELL IS HOLISTIC





DESIGN





We lead in both areas of ESG within our industry



PROFITS

Helps investors measure their

Increase in occupancy rate (+4% vs non-LEED buildings).

34% less CO2 emissions and 25%

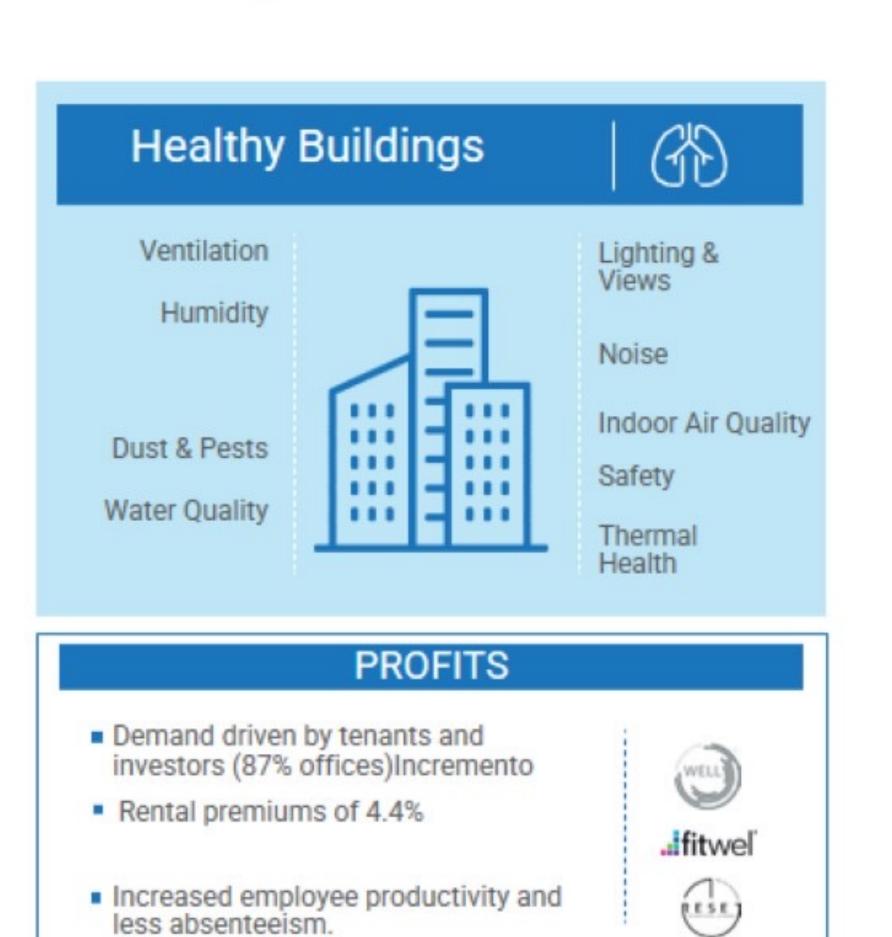
real estate performance.

less energy consumed.

ergy

DGNB





We Are a Group



Indoor Air Quality

for people's health and well-being. Ventilation, purification, filtration and IAQ monitoring equipment in building HVAC systems.



Consulting Services

for the control and improvement of Indoor Air Quality and efficiency energy management of buildings, as well as to ensure that the building or critical area always remains healthy and sustainable



Commissioning Services

commissioning and auditing of building projects (new or existing) and mission-critical environments, thanks to the latest technology, guaranteeing the care of the inhabitants and the environment of the building.

Built Space



Building Certification

and WELL pretest and audits in LEED, BREEAM, DGNB and VERDE certifications.





WELL Performance verification Services

- WELL pretest performance services
- Building Certification Consulting
- Measurements and Audits for LEED Certification Projects
- Measurements and audits for BREEAM certification projects
- Measurements and audits for DGNB certification projects
- Measurements and audits for VERDE certification projects

























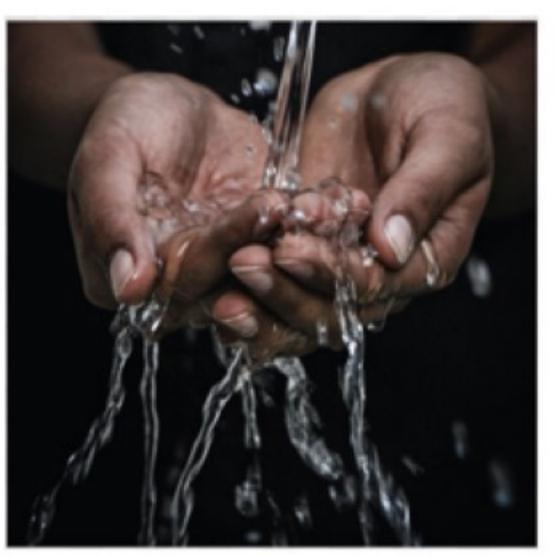


WELL PERFORMANCE RATING











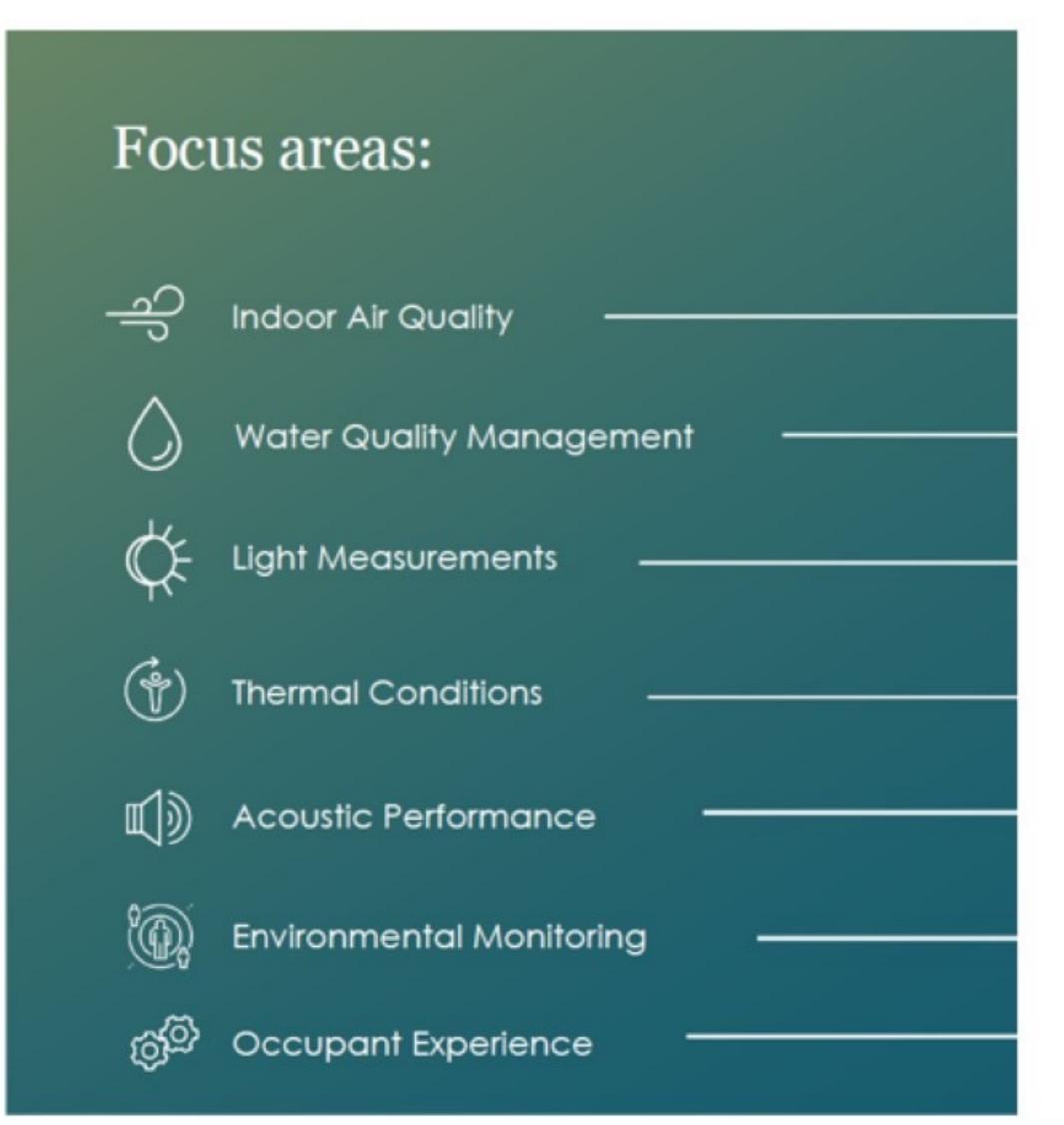


WELLCERTIFIED.COM

WELL PERFORMANCE RATING



The WELL Performance Rating is an evidence-based, third-party verified pathway for measuring, benchmarking and monitoring building performance and occupant experience.

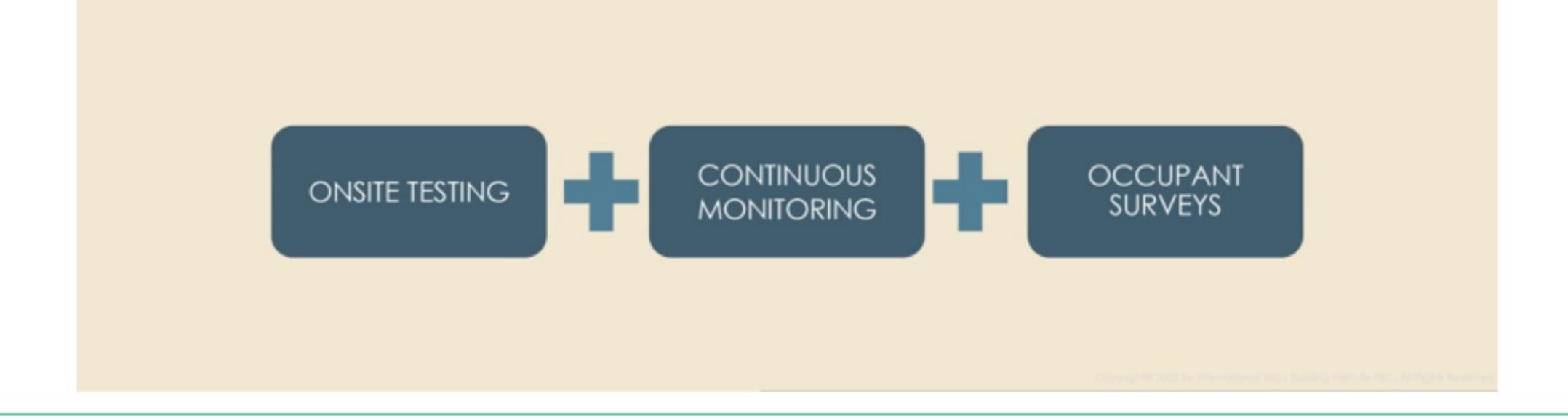


WELL PERFORMANCE RATING



VERIFIED PERFORMANCE

Performance Verification has been at the heart of the WELL Building Standard since 2014.



AIR QUALITY

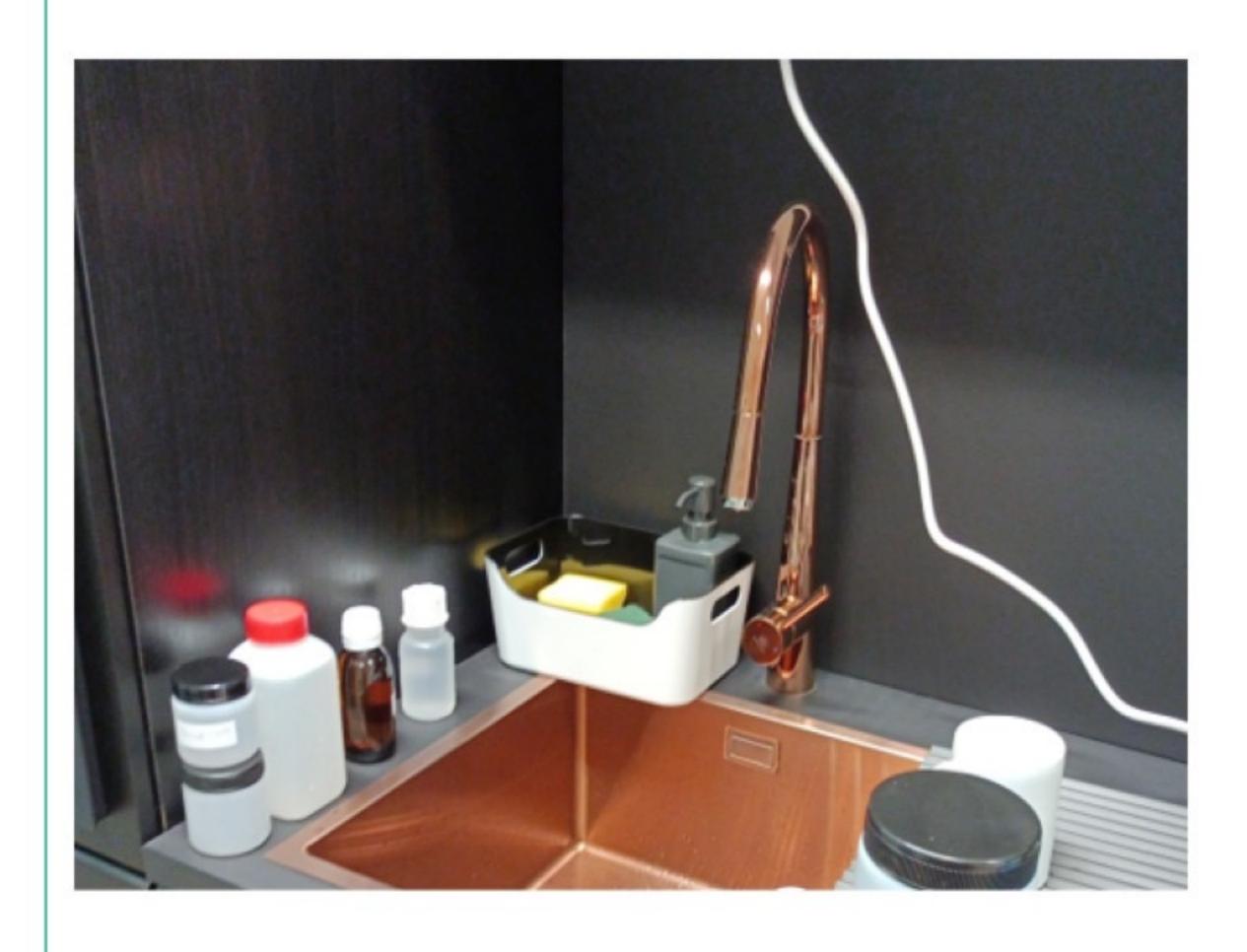






WATER AND LIGHT TESTS







SOUND AND THERMAL COMFORT







ENVIRONMENTAL MONITORING AND OCCUPANT EXPERIENCE







ENHANCING INDOOR ENVIRONMENTAL QUALITY THROUGH WELL-BEING-ORIENTED CERTIFICATIONS

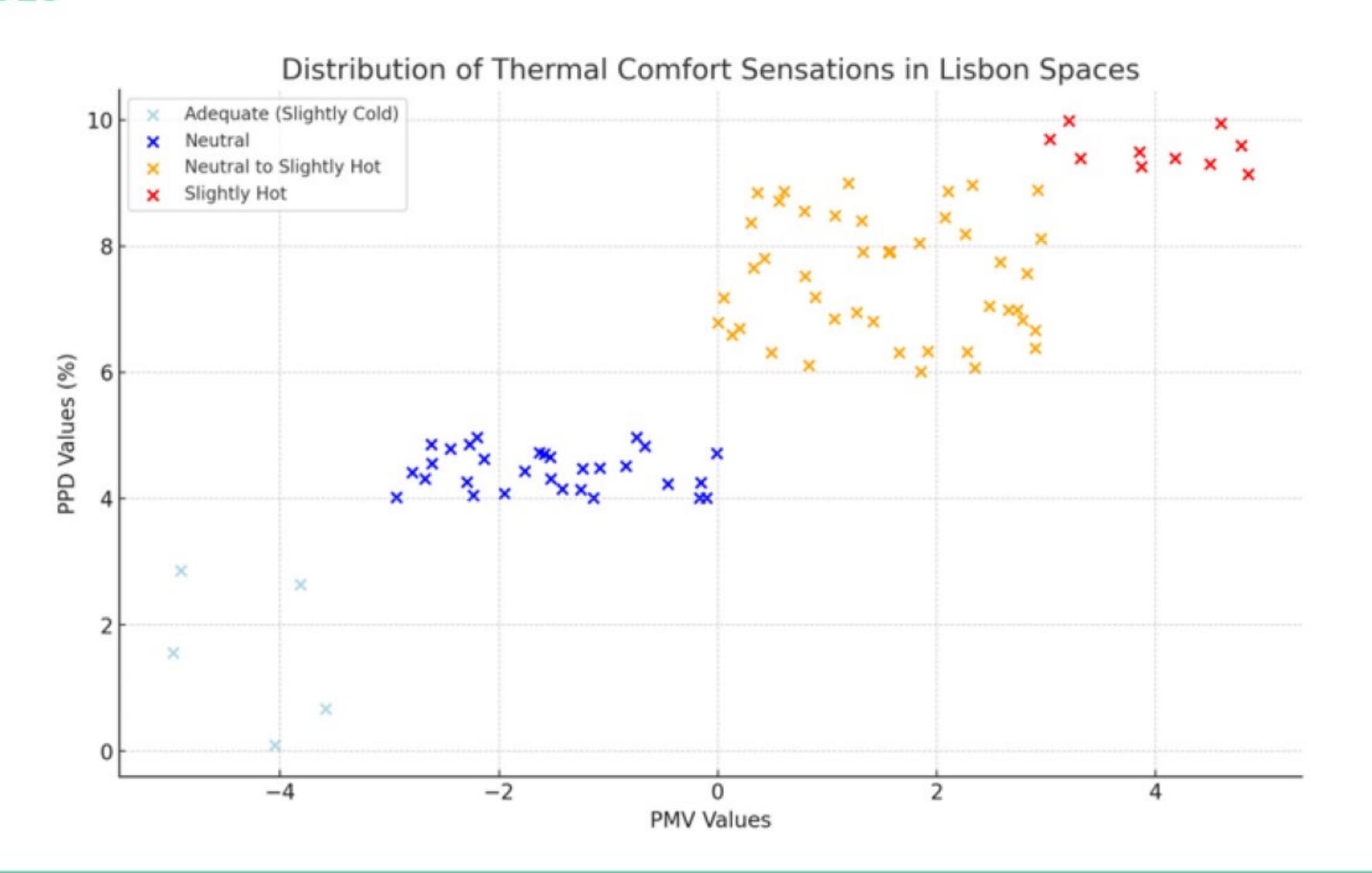


The case study

Through the WELL Certification procedures, the performance results in Indoor Air Quality and Thermal Comfort of 18 buildings located in Madrid, Barcelona, Lisbon and Milan with a surface area close to 200,000 sqm have been analyzed.

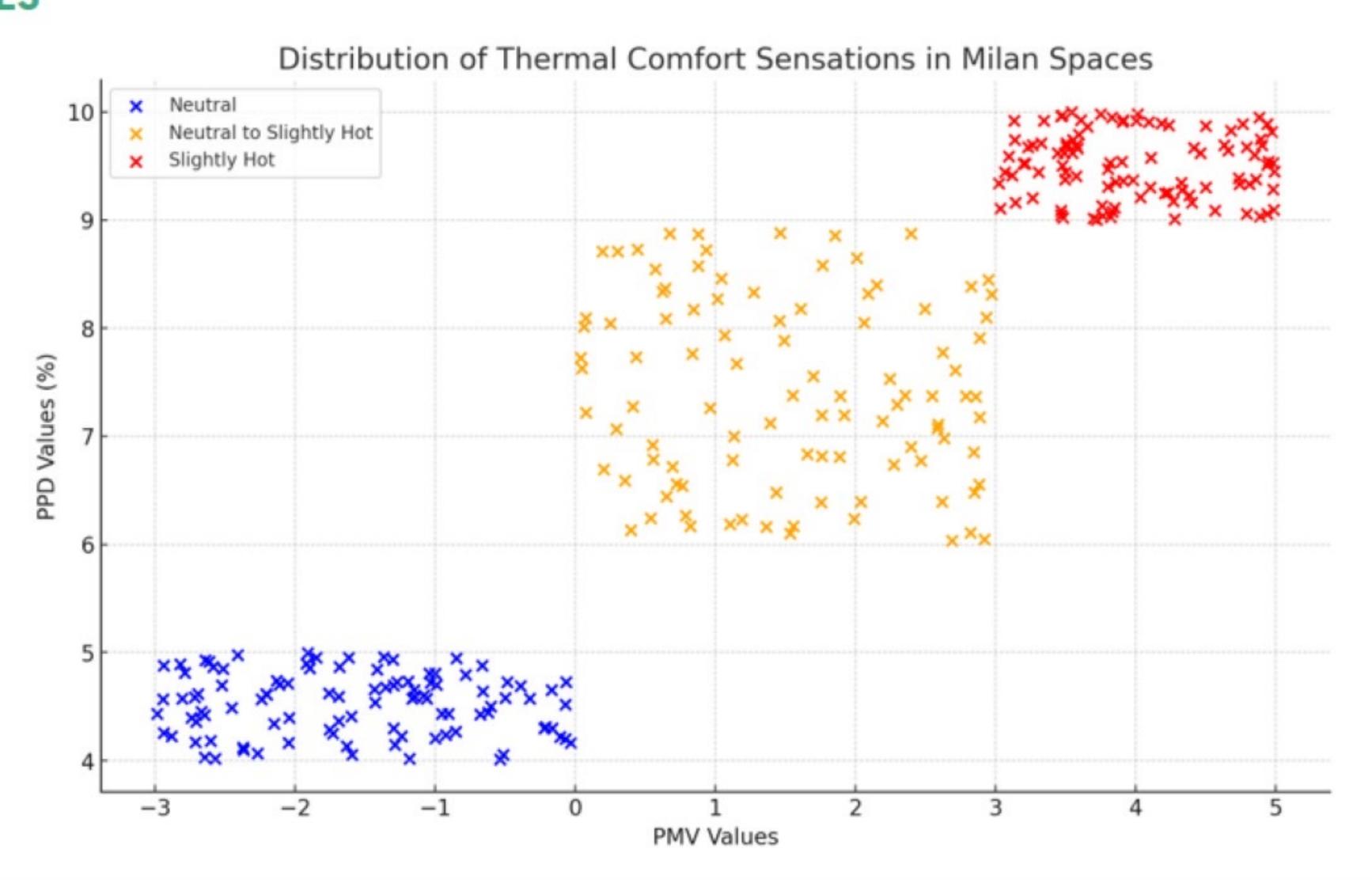
DISTRIBUTION OF THERMAL COMFORT SENSATIONS IN LISBON SPACES, AS MEASURED BY PMV AND PPD VALUES





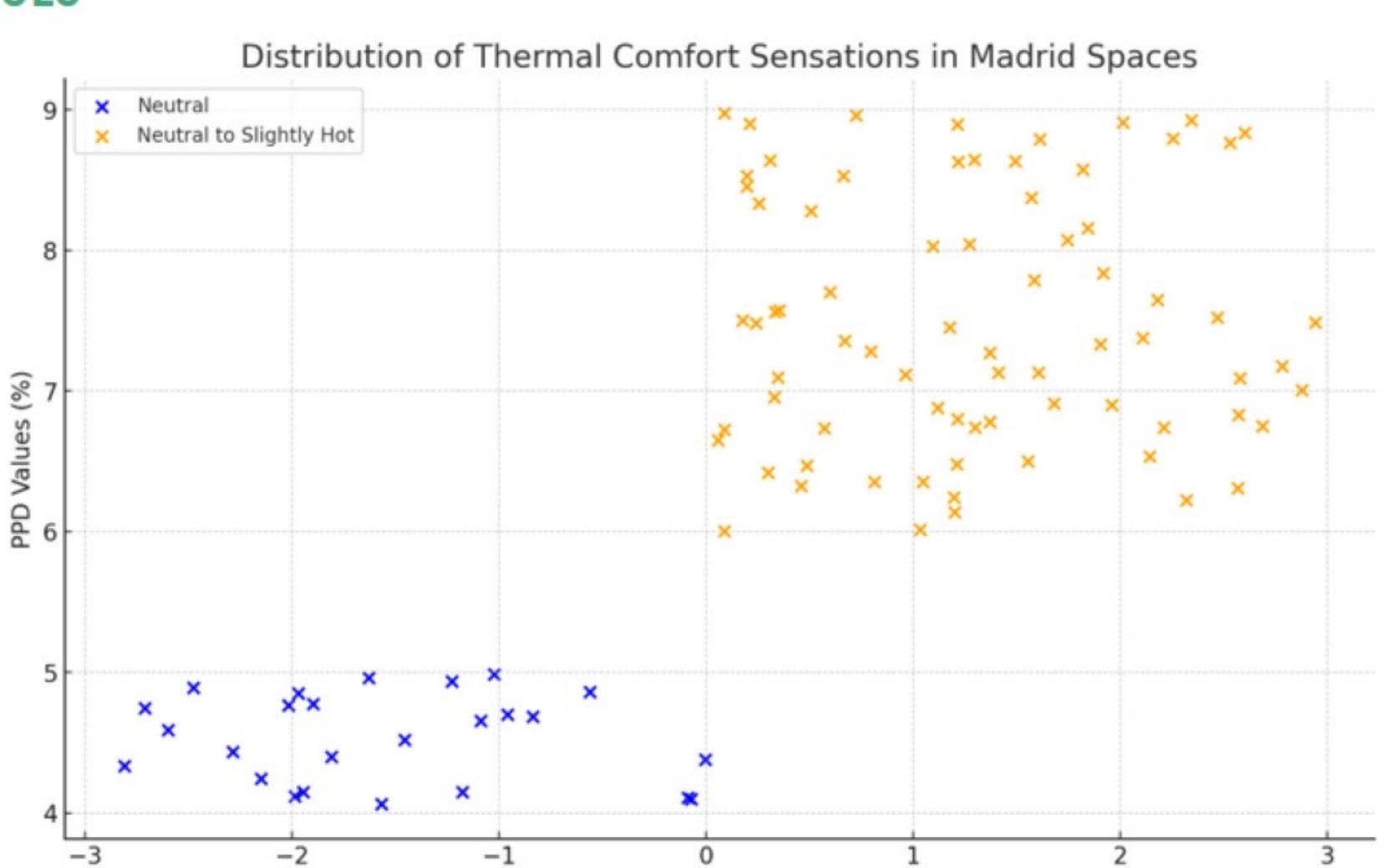
DISTRIBUTION OF THERMAL COMFORT SENSATIONS IN MILAN SPACES, AS MEASURED BY PMV AND PPD VALUES





DISTRIBUTION OF THERMAL COMFORT SENSATIONS IN MADRID SPACES, AS MEASURED BY PMV AND PPD VALUES



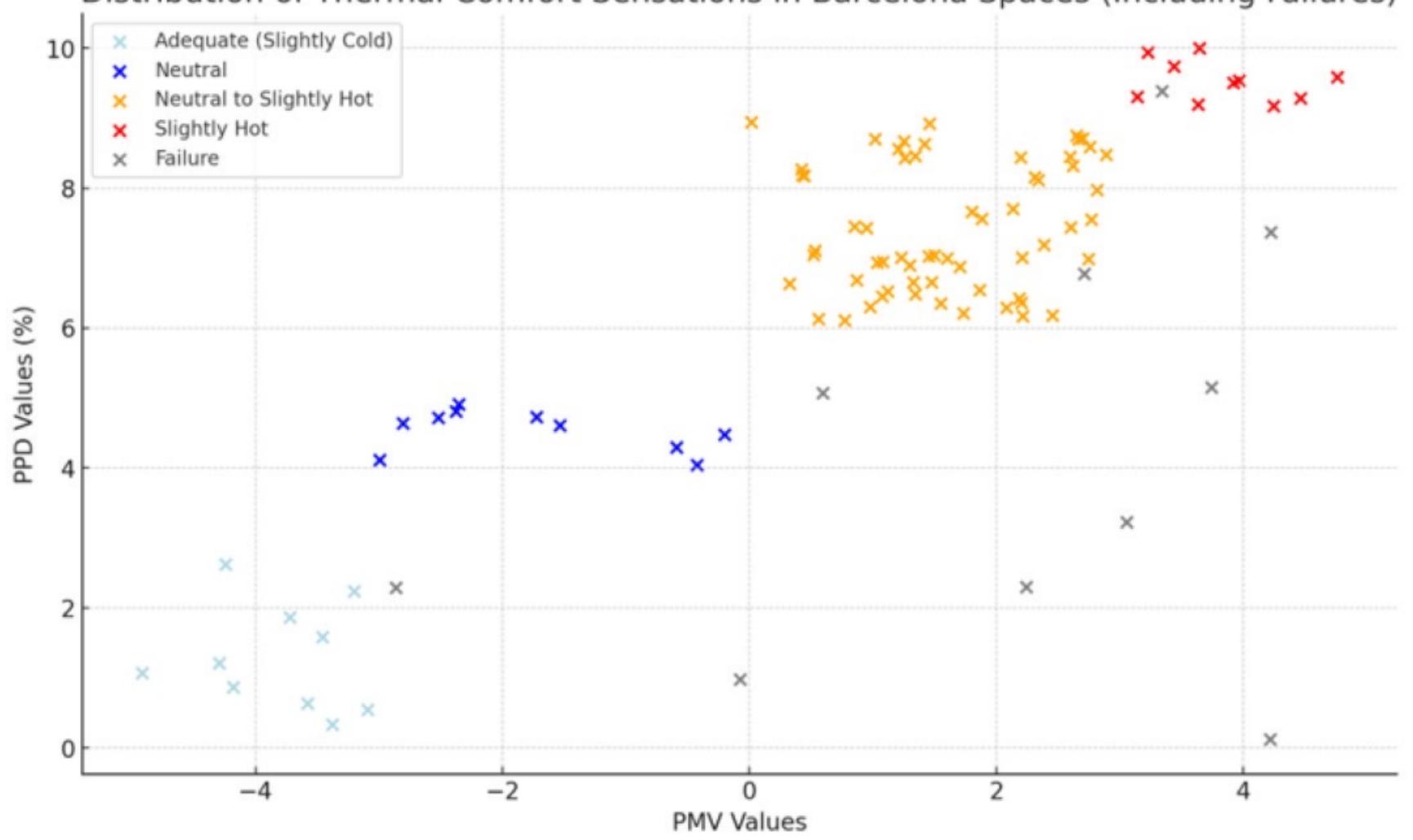


PMV Values

DISTRIBUTION OF THERMAL COMFORT SENSATIONS IN BARCELONA SPACES, AS MEASURED BY PMV AND PPD VALUES

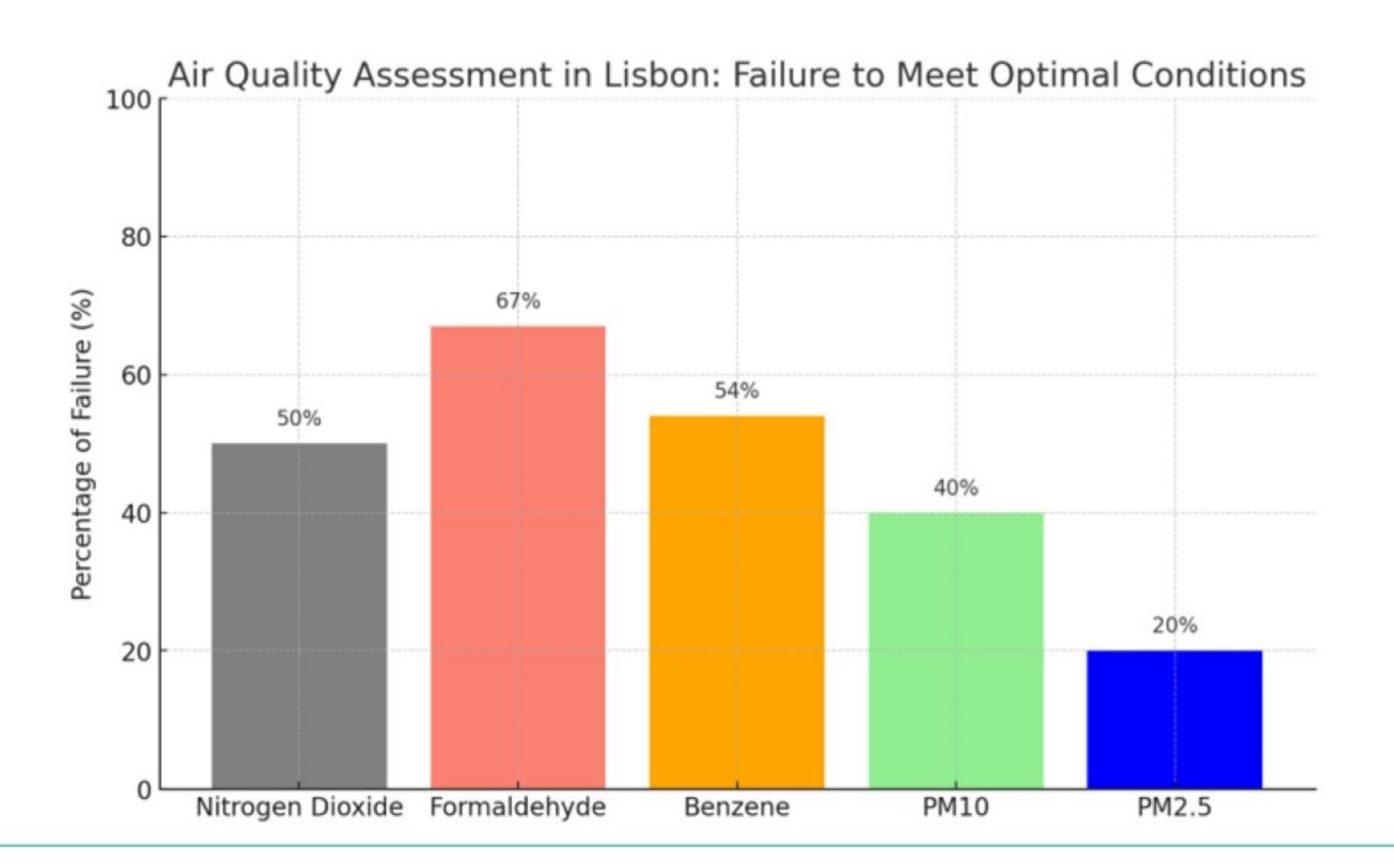


Distribution of Thermal Comfort Sensations in Barcelona Spaces (Including Failures)



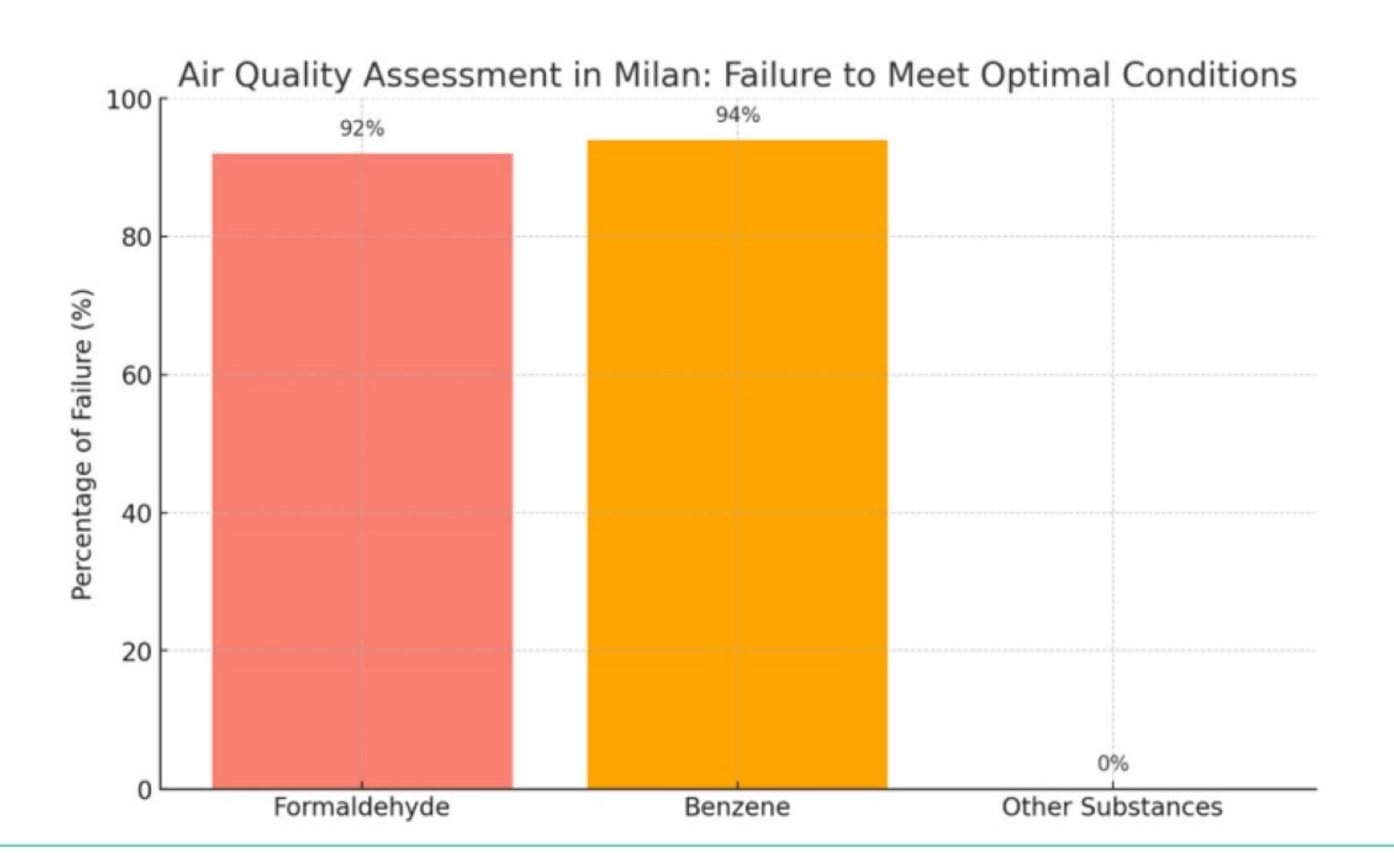
PERCENTAGE OF FAILURE TO MEET OPTIMAL CONDITIONS FOR EACH SUBSTANCE AND PARTICLE IN THE ANALYZED INDOOR SPACES FOR LISBON.





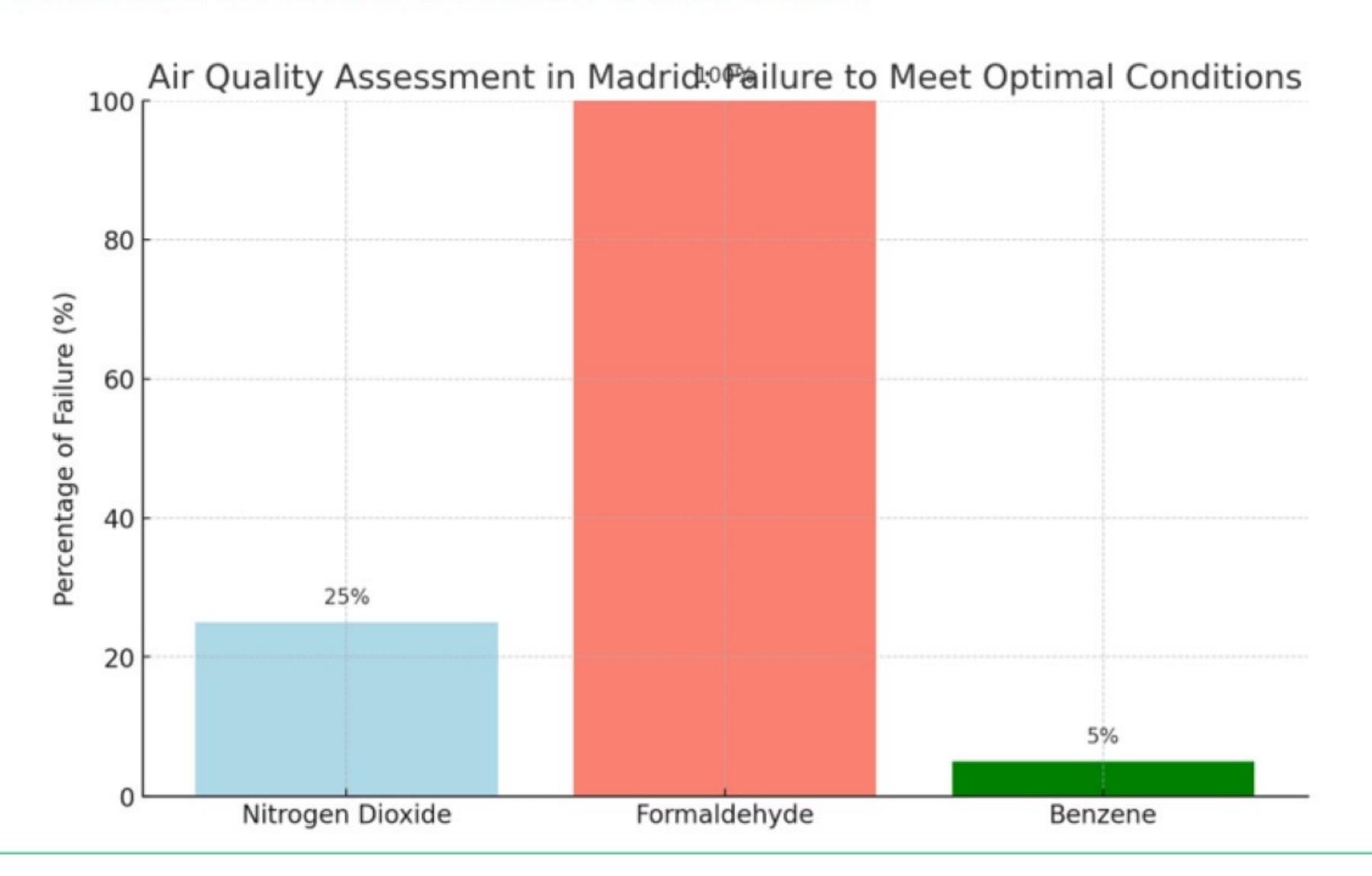
PERCENTAGE OF FAILURE TO MEET OPTIMAL CONDITIONS FOR EACH SUBSTANCE AND PARTICLE IN THE ANALYZED INDOOR SPACES FOR MILAN.





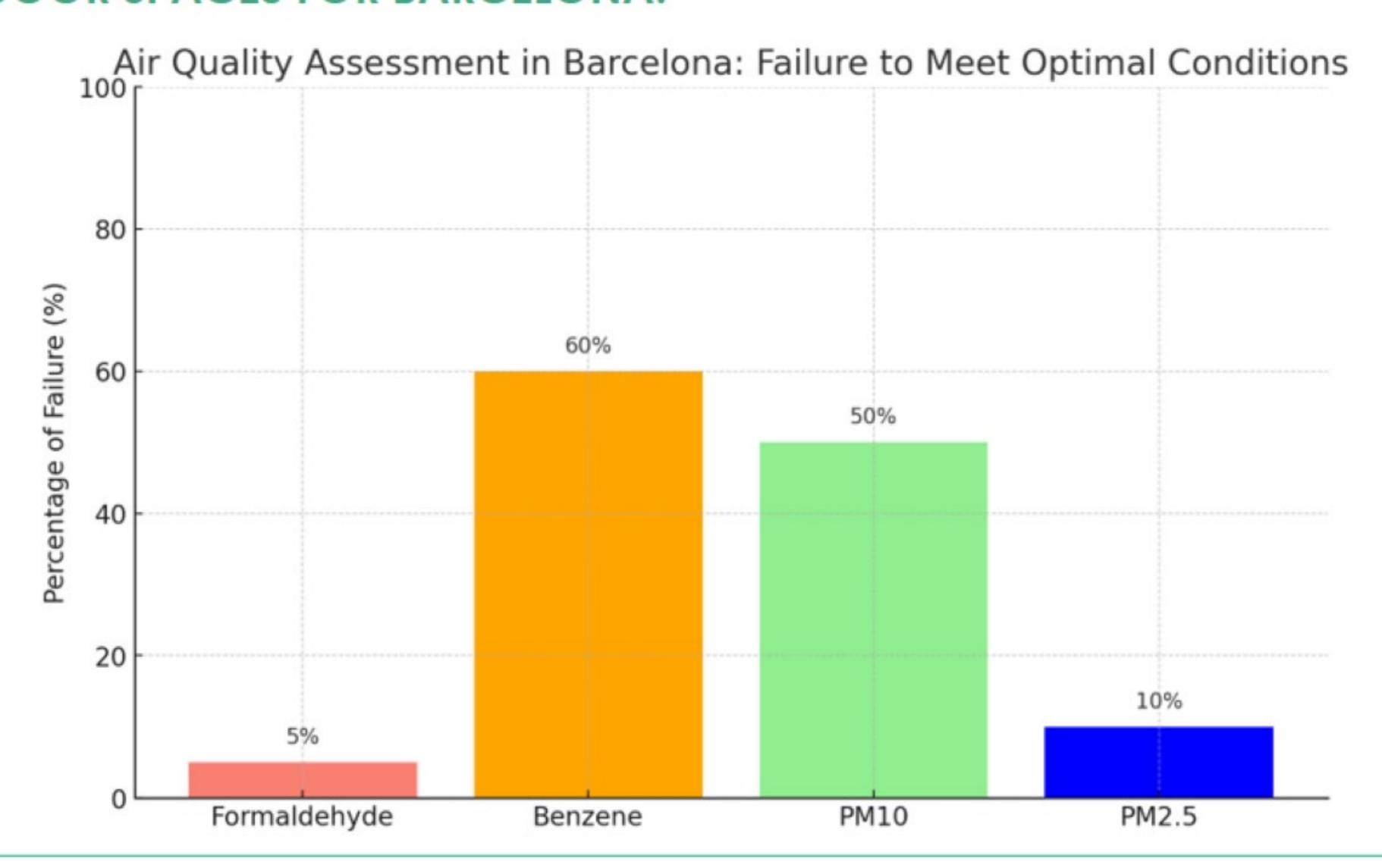
PERCENTAGE OF FAILURE TO MEET OPTIMAL CONDITIONS FOR EACH SUBSTANCE AND PARTICLE IN THE ANALYZED INDOOR SPACES FOR MADRID.





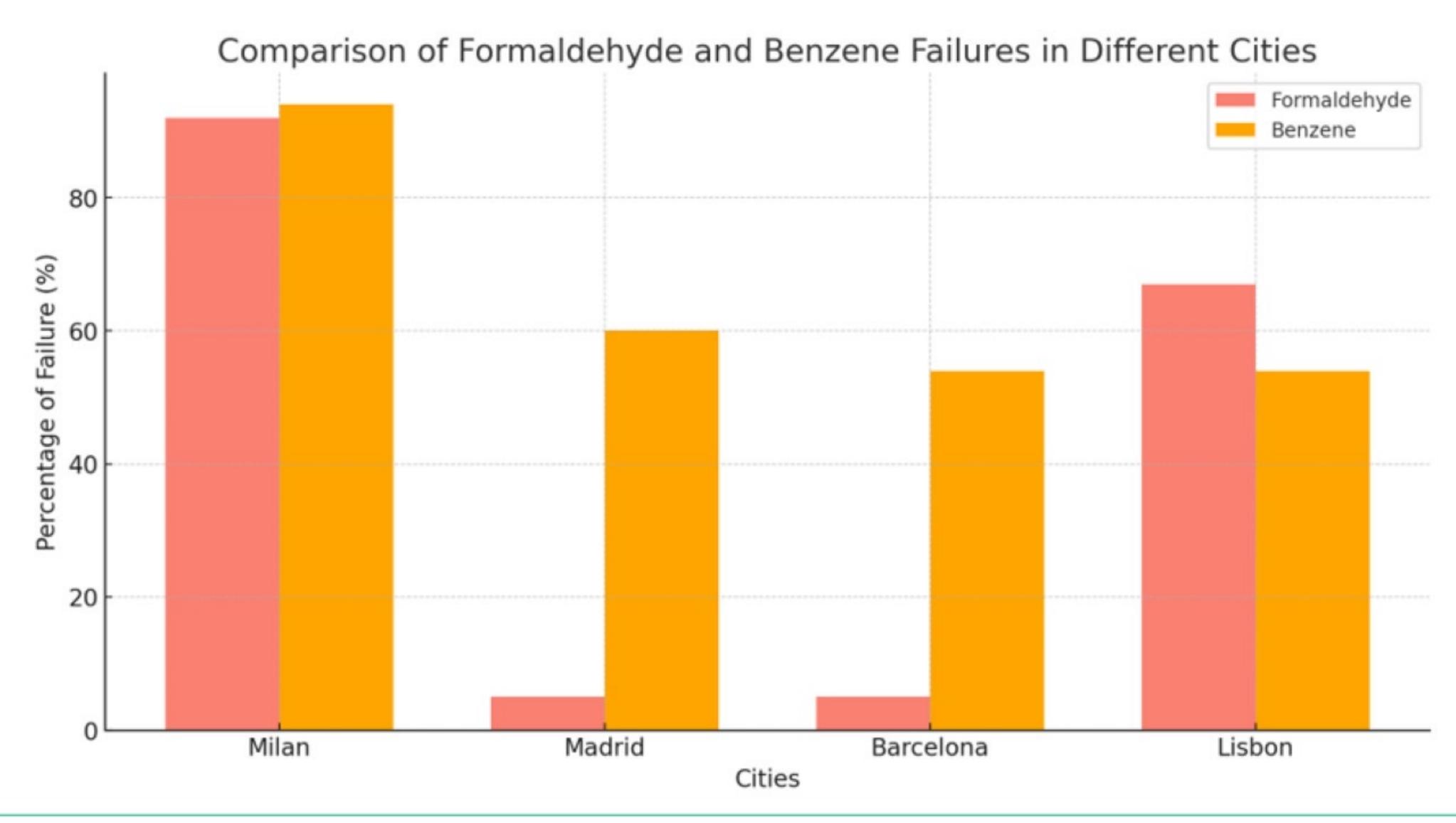
PERCENTAGE OF FAILURE TO MEET OPTIMAL CONDITIONS FOR EACH SUBSTANCE AND PARTICLE IN THE ANALYZED INDOOR SPACES FOR BARCELONA.





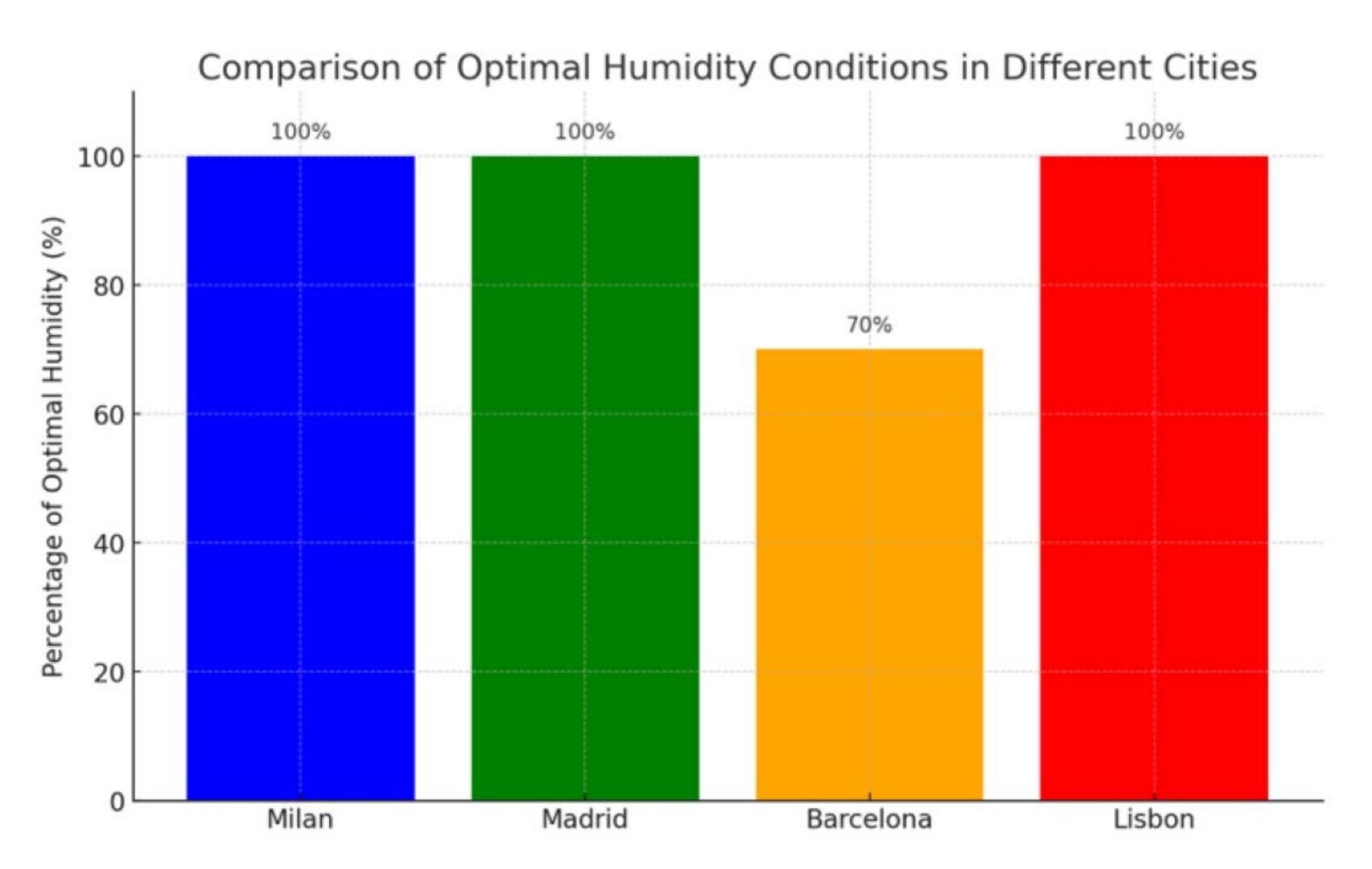
DISCUSSION, OVERALL COMPARISON AND IMPLICATIONS





DISCUSSION, OVERALL COMPARISON AND IMPLICATIONS





DISCUSSION, OVERALL COMPARISON AND IMPLICATIONS



- Milan faces significant air quality challenges, particularly with Benzene and Formaldehyde, and tends to have warmer indoor environments.
- Madrid, while managing particulate matter well, needs to address Nitrogen
 Dioxide and Benzene levels more effectively. Its indoor environments are also generally
 warmer.
- Barcelona shows a balanced indoor thermal environment but has room for improvement in managing PM10 levels.
- Lisbon, similar to Barcelona, has a varied thermal comfort profile but faces challenges with Formaldehyde and PM10.





GREEN BUILDING CERTIFICATION

LEED V5 BUILDING STANDARD



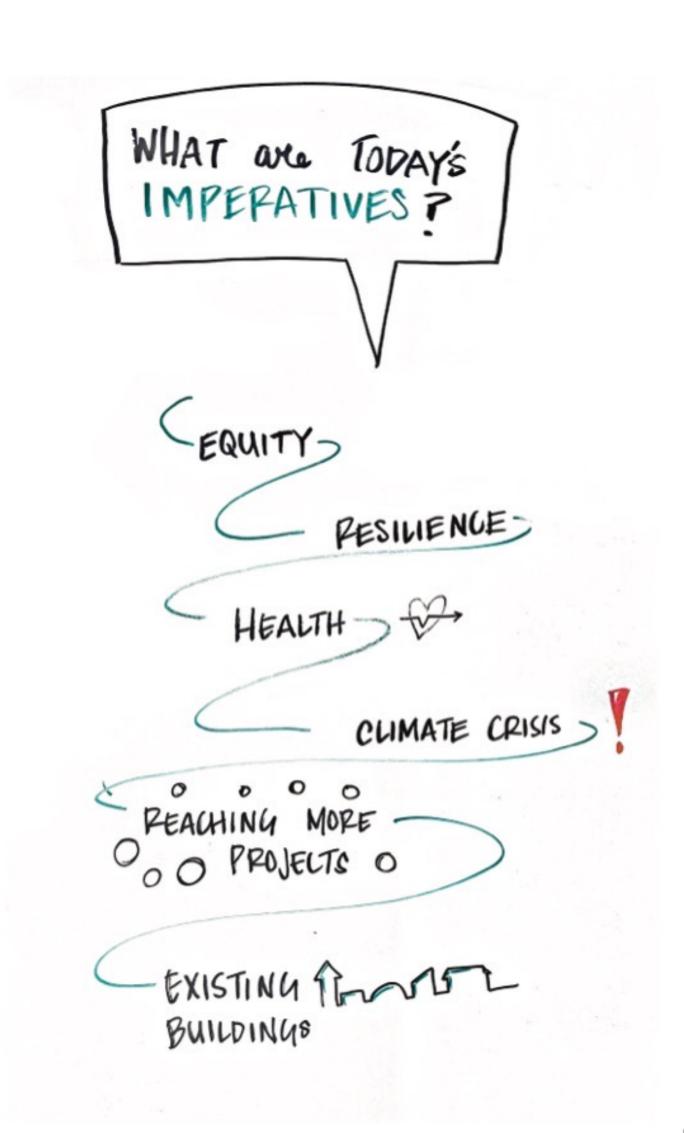
LEED V5 IS THE NEWEST VERSION OF LEED. IT MARKS A TRANSFORMATIVE MILESTONE IN THE BUILT ENVIRONMENT'S ALIGNMENT WITH A LOW-CARBON FUTURE AND ADDRESSES CRITICAL IMPERATIVES SUCH AS EQUITY, HEALTH, ECOSYSTEMS AND RESILIENCE.



THE FUTURE OF LEED

PRINCIPLES

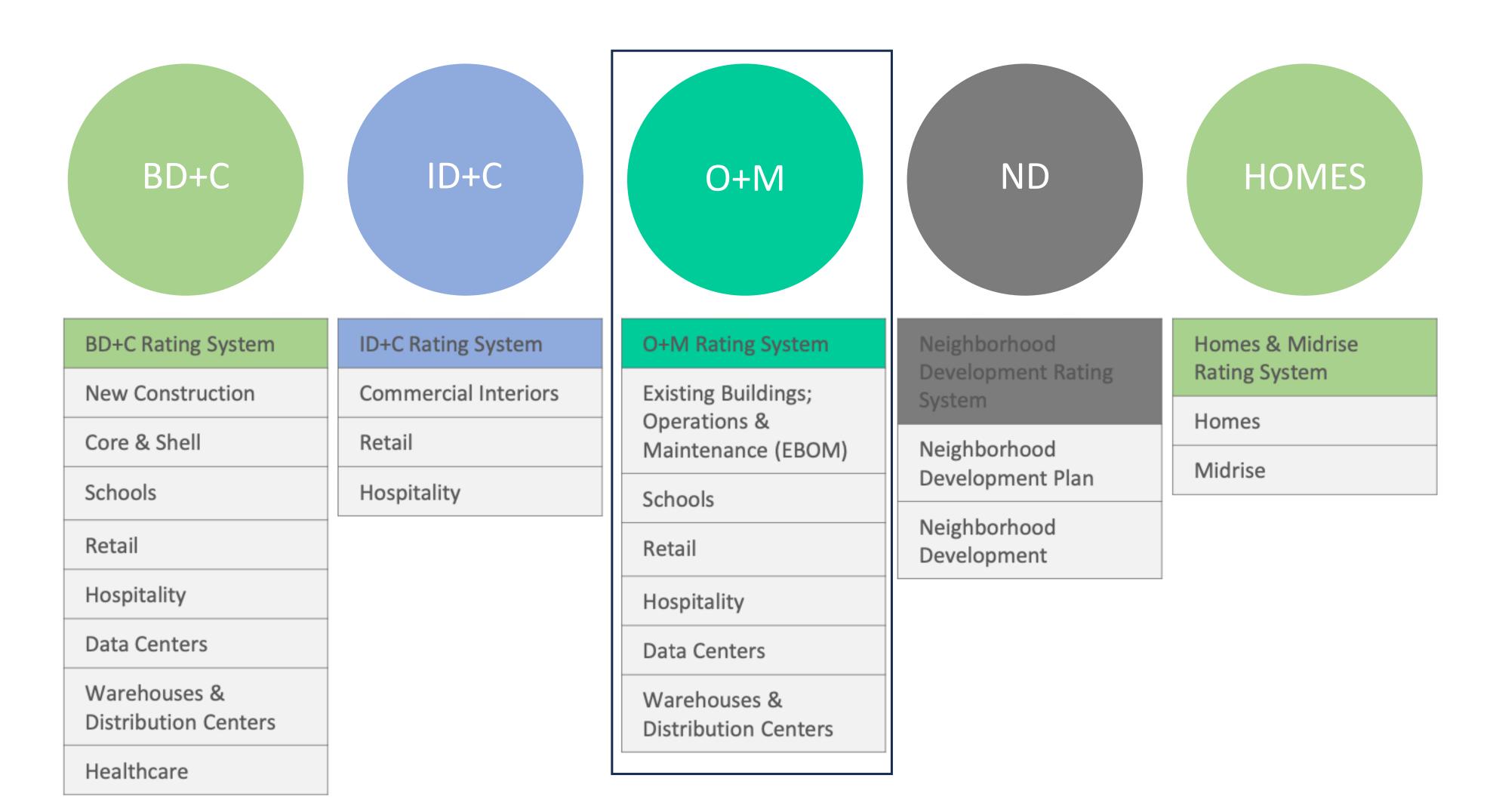
- Scale for greatest impact.
- Decarbonize the building industry swiftly to reflect the urgency of the climate crisis.
- Inspire and recognize adaptive and resilient built environments.
- Invest in human health and well-being.
- Create environments in which diversity, equity and inclusivity thrive.
- Support flourishing ecosystems through regenerative development practices.





GREEN BUILDING CERTIFICATION

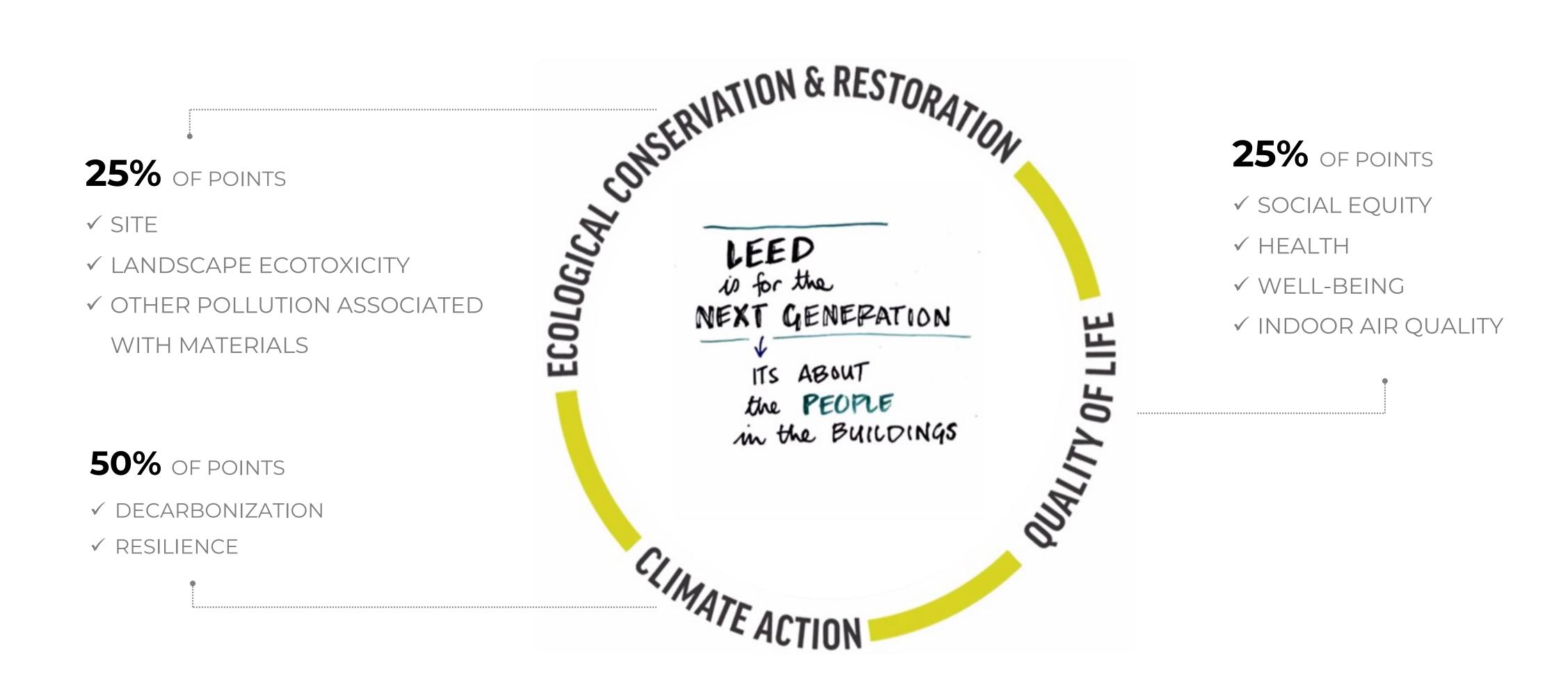
THE FUTURE OF LEED





GREEN BUILDING CERTIFICATION

LEED V5 SYSTEM GOALS





CREDITS HEALTH

Detailed alignment tools for LEED and WELL create efficiencies for organisations pursuing both programs.







Seamless technical alignments

Accelerate implementation with strategic overlaps between WELL and LEED



Coordinated review cycles

Expedite achievements by submitting documentation simultaneously

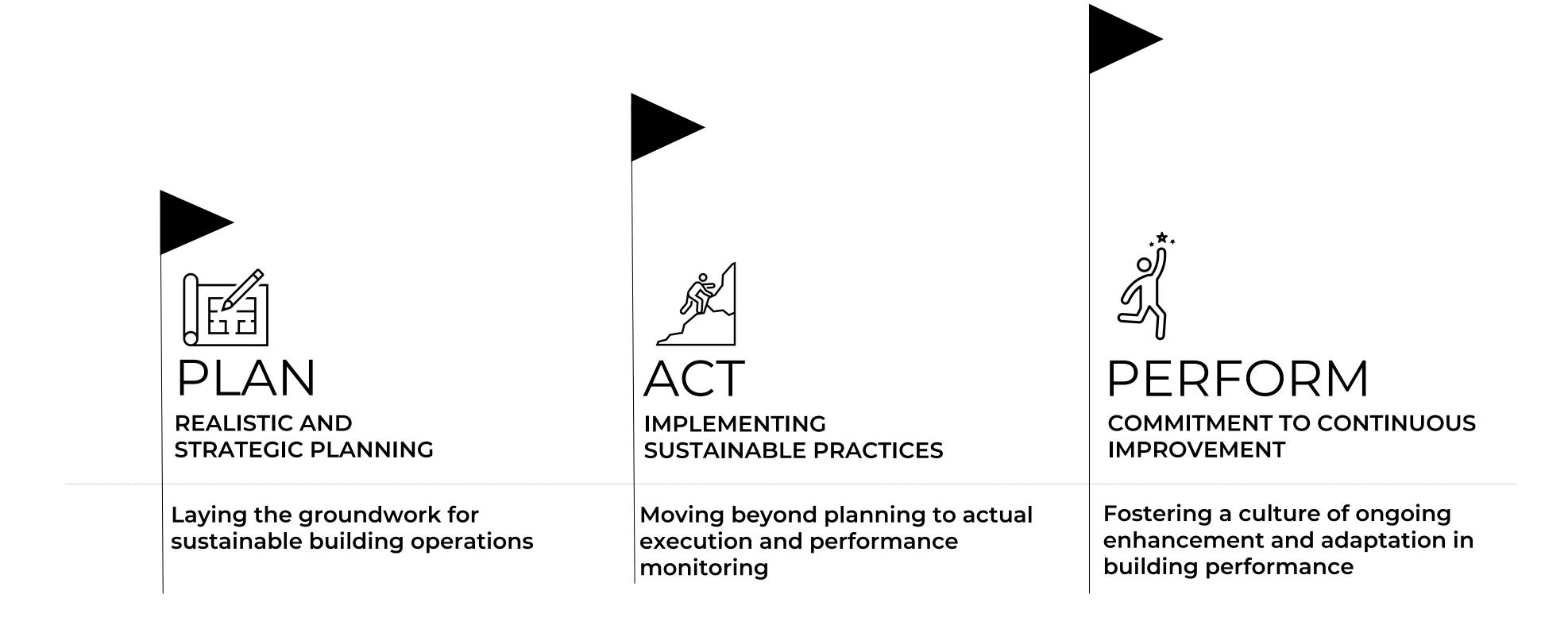


An integrative approach

Embed environmental and human health into business strategy from the onset



FRAMEWORK CREDIT STRUCTURE



CONTINUOUS IMPROVEMENT BECOMES AN ELEMENT OF SUCCESSFUL CERTIFICATION



CREDITS HEALTH



Invest in Human Health & Well-Being

Promoting safe and healthy spaces that foster physical, mental, and behavioral wellbeing for all occupants, in current and future climates.

HOW WE GET THERE

- Sustaining Quality Air During Regular Operation and Under Adverse Conditions
- 2 Understanding and Accommodating Project Specific Occupant Needs
- 3 Integrating Health & Well-Being Co-Benefits
 Alongside Environmental Considerations



CREDITS HEALTH



RATING SYSTEM

OPERATIONS AND MAINTENANCE: EXISTING BUILDINGS

FIRST PUBLIC COMMENT DRAFT APRIL 2024

EQ Credit: Indoor Air Quality Performance

1 – 12 points Intent

To support indoor air quality awareness and identify opportunities for additional air quality improvements or energy savings. To promote occupants' comfort, well-being, and productivity by achieving acceptable indoor air quality



CREDITS HEALTH

IAQ Credit Indoor Air Quality Performance Achievement Pathways

Option 1. Measure Indoor Air	Points	Option 2. Strategies to Improve Indoor Air Quality	Points	
Path 1. Continuous Indoor Air Monitoring	1-12	Path 1. Ventilation per ANSI/ASHRAE Standard 62.1	2-4	
Path 2. Meet air quality thresholds: via one-time air testing 1-4		Path 2. Filtration of outdoor air		
		Path 3. Filtration of and recirculated air	1	
		Path 4. Ventilation System Maintenance	1	
		Path 5. Entryway systems	1	
		Path 6. Automatic Filter Change Notification	1	
		Path 7. Operable Windows	1	
		Path 8. Infection Risk Management	1	
		Path 9. Episodic Outdoor Ambient Conditions	1	
		Path 10. Outdoor air Quality Monitoring	1	
		Path 11. Operating Strategy Using Outdoor Air Quality Monitoring Information	1	
combine paths for up to 12 points maximum		combine paths for up to 6 points maximum		



CREDITS HEALTH

Option 1. Measure Indoor Air	Points
Path 1. Continuous Indoor Air Monitoring	1-12

Table 1. Points for Continuous Indoor Air Monitoring

Table 1. Politis for Continuous indoor All Monitoring					
	Continuous Air Monitoring	Meet Minimum IAQ Limit*		Enhanced IAQ Limit*	
Parameter	Points	Threshold	Points	Threshold	Additional Point
Carbon dioxide (CO2)	2	1000 ppm	1	800 ppm	1
PM2.5	2	15 μg/m3	1	12 μg/m3	1
TVOC	2	n/a	1	n/a	n/a
Ozone (O3)	1	0.07 ppm	1	n/a	n/a
PM10	1	50 μg/m3	1	n/a	n/a
Nitrogen dioxide (NO2)	1	100 µg/m3 (53 ppb)	1	40 μg/m3 (21 ppb)	1
Formaldehyde	1	20 μg/m³ (16 ppb)	1	n/a	n/a



CREDITS HEALTH

Table 3. One-time Air Testing of Particulate Matter and Inorganic Gases

Contaminant	Minimum IAQ limit	Allowed Test Methods
СО	9 ppm; no more than 2 ppm above outdoor levels	ISO 4224 EPA Compendium Method IP-3 GB/T 18883-2002 for projects in China Direct calibrated electrochemical instrument with accuracy of +/- 3% of reading and resolution of 0.1 ppm NDIR CO Sensors with accuracy of 1% of 10 ppm full scale and display resolution of less than 0.1ppm
PM 10	ISO 14644-1:2015, cleanroom class of 8 or lower 50 µg/m³ Healthcare only: 20 µg/m³	Particulate monitoring device with accuracy greater of 5 micrograms/m3 or 20% of reading and resolution (5 min average data) +/- 5 µg/m³
PM 2.5	12 μg/m³ or 35 μg/m³**	
Ozone (O3)	0.07 ppm	Monitoring device with accuracy greater of 5 ppb or 20% of reading and resolution (5 min average data) +/- 5 ppb ISO 13964 ASTM D5149 — 02 EPA designated methods for Ozone
Nitrogen Dioxide (NO2)	40 μg/m ^{3.} (21 ppb).	Monitoring device with measurement range: 0-500 ppb and lower detectable limit: 5 ppb.

Option 1. Measure Indoor Air	Points
Path 2. Meet air quality thresholds: via one-time air testing	1-4

Table 4. One-time Air Testing of Volatile Organic Compounds

Table 4. One-time Air Testing of Volatile Organic Compounds				
Contaminant (CAS#)	Concentration Limit (µg/m³)	Allowed Test Methods*		
TVOC**	n/a**	ISO 16000-6, EPA TO-17 EPA TO-15		
Formaldehyde 50-00-0	20 μg/m³ (16 ppb)	ISO 16000-3, 4; EPA TO-11a,		
Acetaldehyde 75-07-0	140 μg/m ³	EPA comp. IP-6A ASTM D5197-16		
Benzene 71-43-2	3 μg/m ³	ISO 16000-6		
Hexane (n-) 110-54-3	7000 μg/m ³	EPA IP-1, EPA TO-17,		
Naphthalene 91-20-3	9 μg/m ³	EPA TO-15 ISO 16017-1, 2;		
Phenol 108-95-2	200 μg/m ³	ASTM D6196-15		
Styrene 100-42-5	900 μg/m ³			
Tetrachloroethylene 127-18-4	35 μg/m ³			
Toluene 108-88-3	300 μg/m ³			
Vinyl acetate 108-05-4	200 μg/m ³			
Dichlorobenzene (1,4-) 106-46-7	800 μg/m ³			
Xylenes-total 108-38-3, 95-47-6, and 106- 42-3	700 μg/m ³			
A fourth point is available for projects that test for the additional target volatile organic compounds specified in CDPH Standard Method v1.2-2017, Table 4-1 and do not exceed the full CREL levels for these compounds adopted by Cal/EPA OEHHA in effect on June 2016.				



CREDITS HEALTH

Option 2. Strategies to Improve Indoor Air Quality	Points
combine paths for up to 6 points maximum	1-6

Option 2 Paths	Points
Path 1. Ventilation per ANSI/ASHRAE Standard 62.1	2-4
Path 2. Filtration of outdoor air	1
Path 3. Filtration of and recirculated air	1
Path 4. Ventilation System Maintenance	1
Path 5. Entryway systems	1
Path 6. Automatic Filter Change Notification	1

Option 2 Paths	Points
Path 7. Operable Windows	1
Path 8. Infection Risk Management	1
Path 9. Episodic Outdoor Ambient Conditions	1
Path 10. Outdoor air Quality Monitoring	1
Path 11. Operating Strategy Using Outdoor Air Quality Monitoring Information	1



BENEFITS · DATA · REQUIREMENTS

IAQ MONITORING





BENEFITS

- REAL TIME monitoring
- UNLIMITED DATA collection & storage
- Live **ALERTS** & notifications
- Sentential trends
- COMPARE
 - o expected vs actual values
 - Against certified standardse.g. LEED/ WELL/ RESET
 - o Indoor vs outdoor air quality
- Occupant HEALTH & WELLBEING
 - Ensure Clean & ComfortableAir Quality
- Specify review time period i.e. Day/ month/year

DATA POINTS

- 1. Particulate Matter [PM2.5/10]
- Volatile Organic Compound
 (VOCs)
- 3. Carbon Dioxide (CO2)
- 4. Formaldehyde
- 5. Ozone
- 6. Humidity
- 7. Temperature
- 8. Viral Index

REQUIREMENTS

INFORMATION REQUIRED:

1. GENERAL LAYOUT

REQUIRED FOR PROPOSAL TO
IDENTIFY POTENTIAL LOCATIONS

SITE REQUIREMENTS:

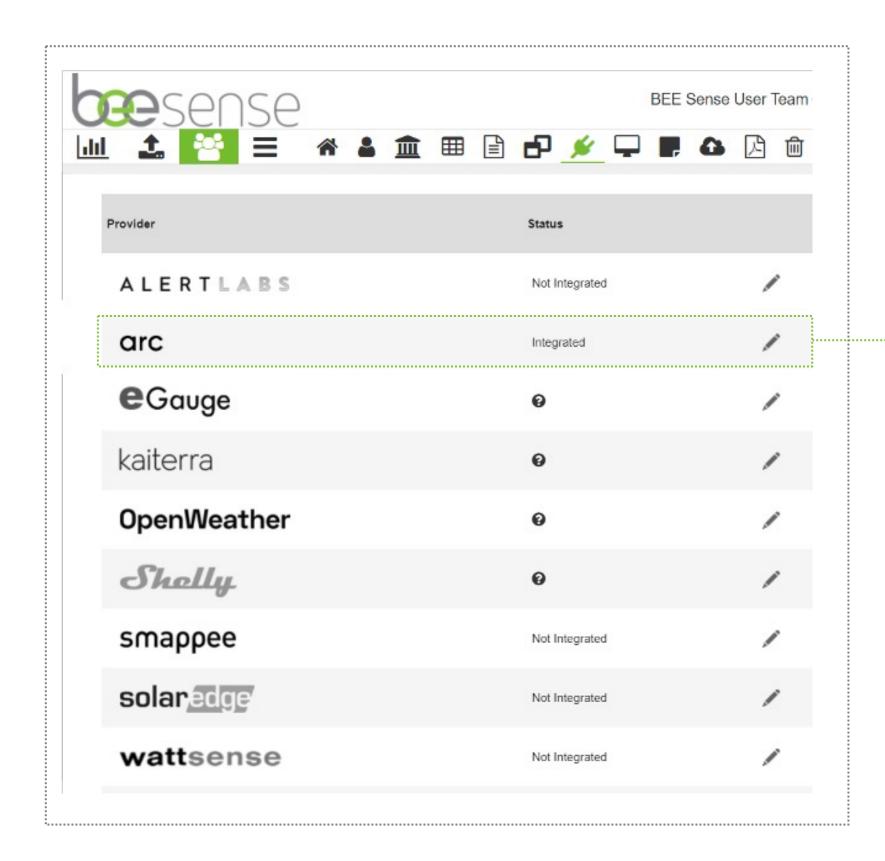
- 1. CONSISTENT POWER SOURCE
- 2. STABLE INTERNET CONNECTION

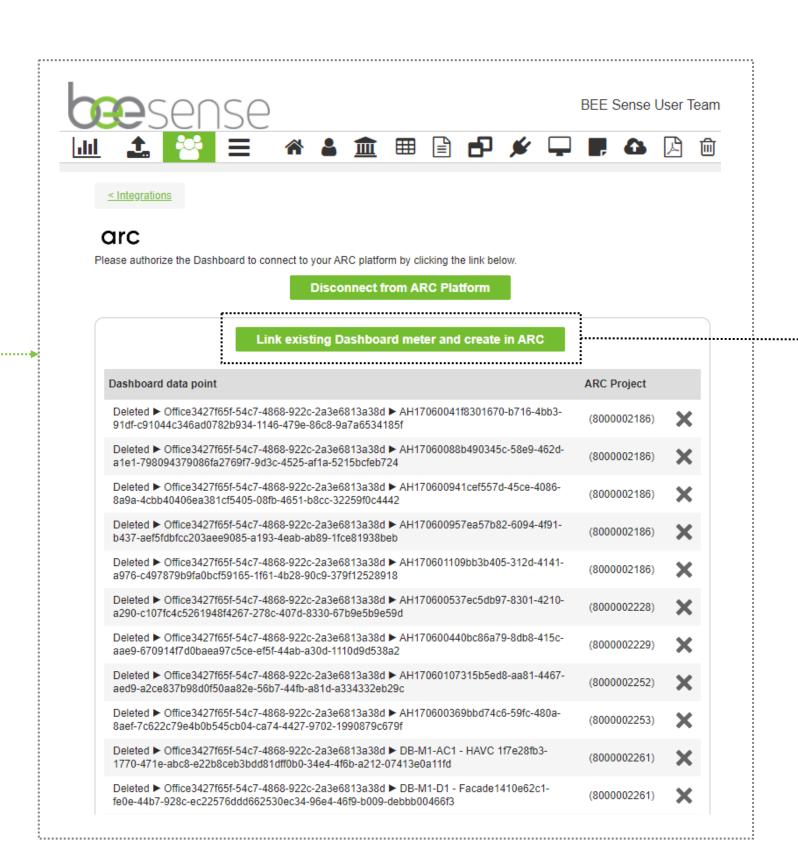
RECOMMENDED INSTALLATION:

1.5m aff (above floor finish)

SERVICES SNAPSHOT · DATA INTEGRATION







Link existing Dashboard meter and create in ARC

1) enter besense portal 2) manage integration to arc)





IAQ as a driver for both LEED and WELL standards

GBCI Circles – April 18th 2024

Andrea Costa



Our Journey

Innovation

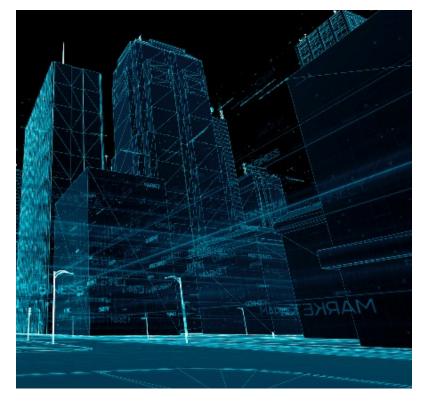




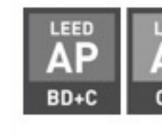
Innovative Products & Services

ESG Digital Twin Ecosystem

for the Real Estate Eco Digital transition



Sustainability Consulting









































Our Journey

Innovation +CITXCHANGE BECSME MAKING PEDs

Innovative Products & Services **IES** greenpass BRAINBOX A) **ZUTEC ™** Matterport spaceti

Sustainability Consulting **WELL** PERFORMANCE TESTING ORGANIZATION

Our numbers

Founded 2012

People 119

Offices 8 4 Countries

Research 124 R&D projects Funds raised
591 M
Total R&D

First time EU

43

Organizations



Turnover: **€9.1 Million (2023)**Over half in commercial activities

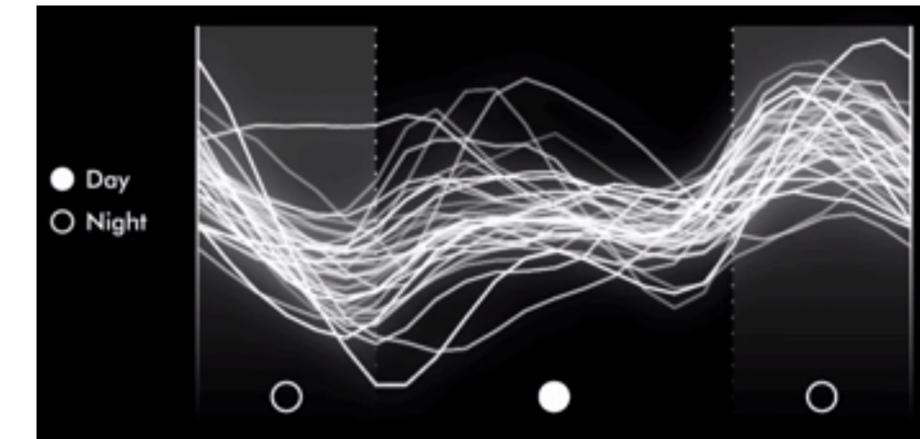
HEADQUARTER Pavia, Italy Italy **United Kingdom** Milan London Catania Padova Spain Madrid; Barcelona Bilbao France Roquefort-les-Pins;

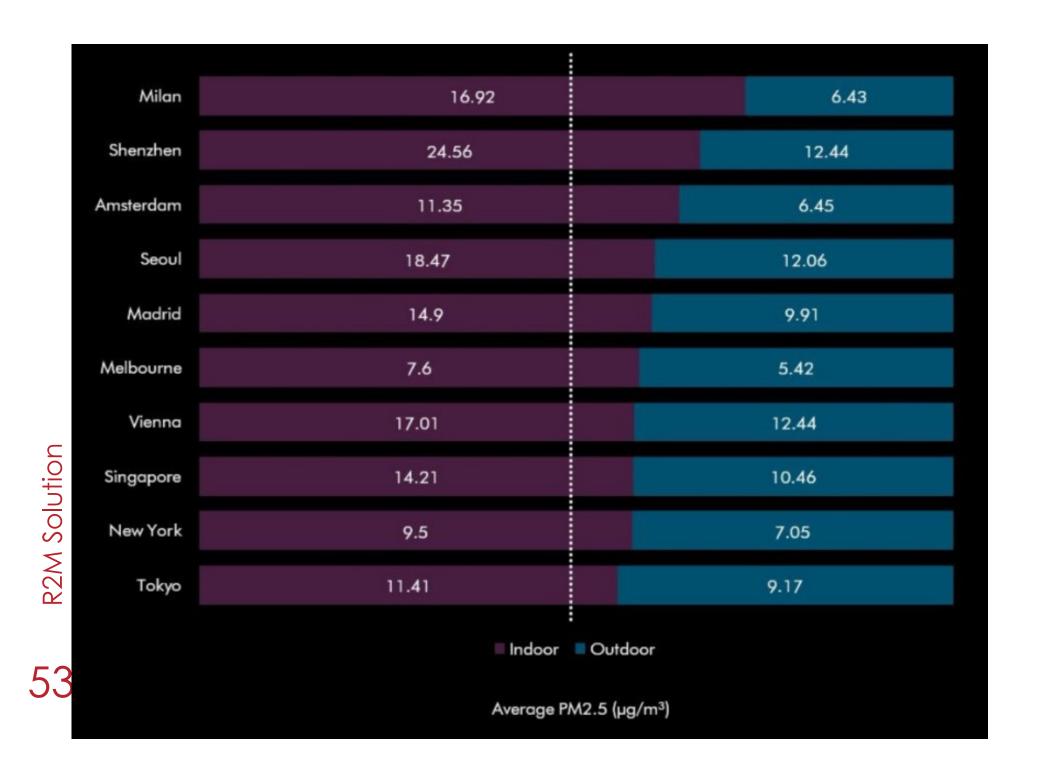
Paris

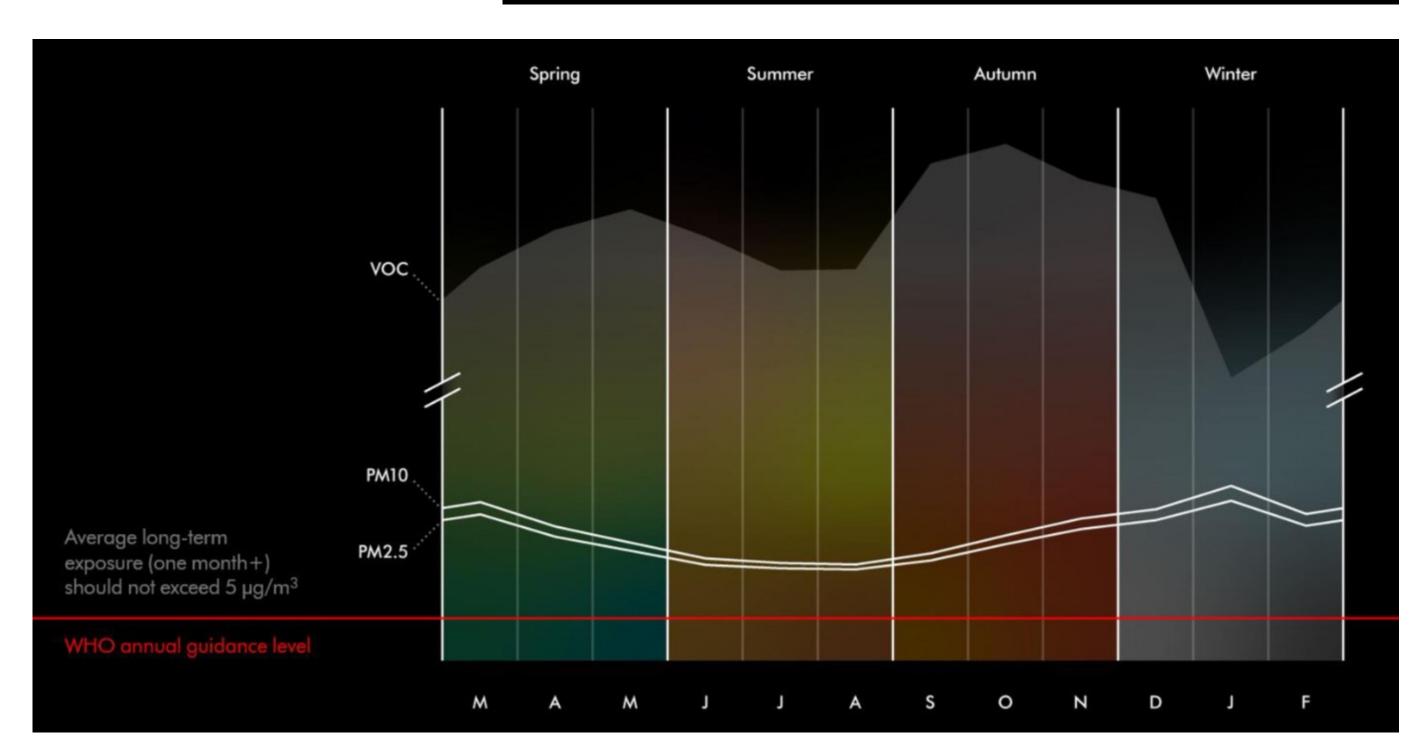
January 2024 – context:

Dyson Global Connected Air Quality Data Research

85% of countries experienced indoor air quality worse than outdoor for more than 6 months of 2022



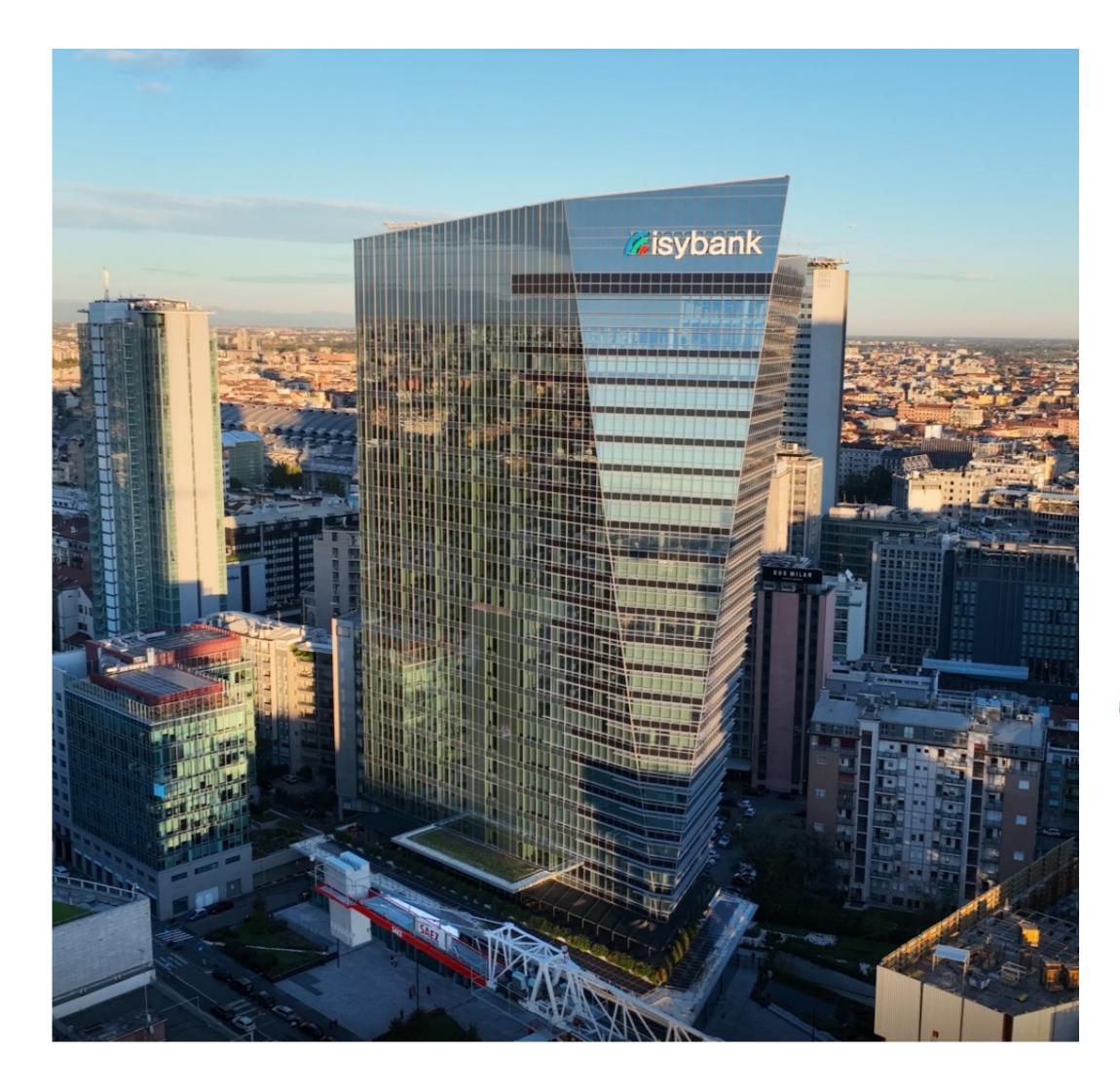




LEED and WELL synergies



Gioia 22, Milan





Real Estate, since 1974









Gioia 22, Milan

WELL v2

azoto













Zinco









2



COMMUNITY

	Parametr testati PM _{2.5} PM ₁₀	i	N° test
	PM _{2.5}		12
	PM ₁₀		10
	Benzene		10
	Formaldeide		12
AIR	Toluene		10
A	Monossido carbonio	di	12
	Ozono		12
	Acetaldeide		10
	Acrilonitrile		10
	Naftalene		10
	Biossido	di	10

	Parametri testati	N° test
	Torbidità	4
	Coliformi	4
	Arsenico	2
	Cadmio	2
	Cromo (totale)	2
	Rame	2
	Fluoruro	2
	Piombo	2
٧	Mercurio (totale)	2
WAIER	Nichel	2
₹	Nitrato	2
5	Nitrito	2
	Cloro totale	2
	Cloro residuo (libero)	2
	Concentrazione di trialometani totali	2
	Concentrazione di acidi aloacetici	2
	Aldrin e Dieldrin	2
	Atrazina	2
	Carbofuran	2
	Clordano	2
	Acido 2,4-diclorofenossiacetico	2

Parametri testati	N° test
Diclorodifeniltricloroetano e metaboliti	2
Lindano	2
Pentaclorofenolo	2
Benzene	2
Benzo[a]pirene	2
Tetracloruro di carbonio	2
1,2-dicloroetano	2
Tetracloroetene	2
Toluene	2
Tricloroetene	2
2,4,6-Triclorofenolo	2
Cloruro di vinile	2
Xileni	2
рН	2
Alluminio	2
Cloruro	2
Manganese	2
Ferro	2
Argento	2
Sodio	2
Solfato	2

부	Parametri testati	N° test
宣	Illuminamento artificiale	112
	Luce circadiana	0

۲	F	Parametri testati	N° test
ERMA	MFOR	PMV	40
Ī	8	Umidità relativa	40

۵	Parametri testati	N° test
N	Rumore di fondo	54
Ö	Speech privacy	6
<i>(</i>)	Tempo di riverbero	0





R2M Solution

EXPECTED

Chiesi HQ, Parma





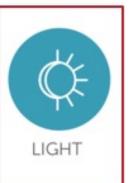
Chiesi HQ, Parma

WELL v2





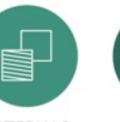


















COMMUNITY

Parametri testati	N° test
PM _{2.5}	7
PM ₁₀	6
Benzene	6
Formaldeide	7
Toluene	6
Monossido di carbonio	7
Ozono	7
Acetaldeide	6
Acrilonitrile	6
Naftalene	6
Biossido di azoto	6
	testati PM _{2.5} PM ₁₀ Benzene Formaldeide Toluene Monossido di carbonio Ozono Acetaldeide Acrilonitrile Naftalene Biossido di

Parametri testati	
Torbidità	5
Coliformi	5
Arsenico	1
Cadmio	1
Cromo (totale)	1
Rame	1
Fluoruro	1
Piombo	1
Mercurio (totale)	1
Nichel	1
Nichel Nitrato	1
Nitrito	1
Cloro totale	1
Cloro residuo (libero)	1
Concentrazione di trialometani totali	1
Concentrazione di acidi aloacetici	1
Aldrin e Dieldrin	1
Atrazina	1
Carbofuran	1
Clordano	1
Acido 2,4-diclorofenossiacetico	1

	Parametri testati	N° test
	Diclorodifeniltricloroetano e metaboliti	1
	Lindano	1
	Pentaclorofenolo	1
	Benzene	1
	Benzo[a]pirene	1
	Tetracloruro di carbonio	1
	1,2-dicloroetano	1
	Tetracloroetene	1
~	Toluene	1
岜	Tricloroetene	1
WATER	2,4,6-Triclorofenolo	1
>	Cloruro di vinile	1
	Xileni	1
	рН	1
	Alluminio	1
	Cloruro	1
	Manganese	1
	Ferro	1
	Argento	1
	Sodio	1
	Solfato	1
	Zinco	1

Ė.	Parametri testati	N° test
흐	Illuminamento artificiale	103
	Luce circadiana	60

ا بـ	Parametri testati	N° test
ERMA	PMV	21
Ĭ (Umidità relativa	21

0	Parametri testati	N° test
S	Rumore di fondo	31
Ö	Speech privacy	0
(C)	Tempo di riverbero	11





Accenture People Hub Milanofiori







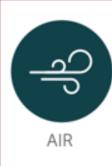






Accenture People Hub Milanofiori

WELL v2 pilot





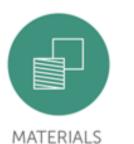
















	Parametri testati	N° test
	PM2.5	8
	PM10	8
	Benzene	8
	Carbon disulfide	8
	Carbon tetrachloride	8
	Chlorobenzene	8
	Chloroform	8
	Dichlorobenzene	8
IR	Dichloroethylene	8
4	Ethylbenzene	8
	Hexane	8
	Isopropyl alcohol	8
	Methyl chloroform	8
	Methylene chloride	8
	Methyl tert-butyl ether	8
	Styrene	8
	Tetrachloroethene	8
	Toluene	8

Trichloroethylene

	Parametri testati	N° test
	Vinyl acetate	8
~	Xylene	8
AIR	Carbon monoxide	8
	Ozone	8
	Formaldehyde	8
	Nitrogen dioxide	8

Parametri testati	N° test
Turbidity	4
Coliforms	4
Lead	4
Arsenic	2
Antimony	2
Mercury	2
Nickel	2
Copper	2
Cadmium	2
Chromium (total)	2
Styrene	2
Benzene	2
	Turbidity Coliforms Lead Arsenic Antimony Mercury Nickel Copper Cadmium Chromium (total) Styrene

	Parametri testati	N° test
	Ethylbenzene	2
WATER	Vinyl chloride	2
	Toluene	2
	Xylenes	2
	Tetrachloroethylene	2
	Total trihalomethanes	2
	Total haloacetic acids	2
	Atrazine	2
	Simazine	2
<u>Щ</u>	2,4-Dichlorophenoxyacetic acid	2
Α	Nitrate	2
≥	Fluoride	2
	Total chlorine	4
	Chloramine	4
	Aluminum	2
	Chloride	2
	Manganese	2
	Sodium	2
	Sulfate	2
	Iron	2
	Zinc	2
	Total Dissolved Solids	2

۱ ۰	Parametri testati	N° test
宣	Illuminamento artificiale	103
	Luce circadiana	0

그는	Parametri testati	N° test
ERMA MFOR	PMV	21
書る	Umidità relativa	21

۵	Parametri testati	N° test
S	Rumore di fondo	21
Ö	Speech privacy	0
0)	Tempo di riverbero	8





European Space Agency

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ESA - Italian Campus ESRIN



ESA B12 450 m2

LEED Gold nel 2019



ESA B14 1350 m2

- LEED Platinum nel 2023
- WELL Platinum nel 2023



ESA B9 5000 m2

- LEED Platinum in corso
- WELL Platinum in corso





aria

acqua

comfort

termico

ESA – Building 14





R2M Solution

ESA – Building 14

WELL v2 pilot





















COMMUNITY

Parametri testati	N° test
PM2.5	2
PM10	2

Benzene

Carbon disulfide

Carbon tetrachloride

Chlorobenzene

Chloroform

Dichlorobenzene

Dichloroethylene

Ethylbenzene

Hexane

Isopropyl alcohol

Methyl chloroform

Methylene chloride

Methyl tert-butyl

ether

Styrene

Tetrachloroethene

Toluene

Trichloroethylene

est	
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	Parametri testati	N° test
	Vinyl acetate	2
~	Xylene	2
A A	Carbon monoxide	2
	Ozone	2
	Formaldehyde	2
	Nitrogen dioxide	2

Parametri testati	N° test
Turbidity	2
Coliforms	2
Lead	2
Arsenic	2
Antimony	2
Mercury	2
Nickel	2
Copper	2
Cadmium	2
Chromium (total)	2
Styrene	2
Benzene	2
	Turbidity Coliforms Lead Arsenic Antimony Mercury Nickel Copper Cadmium Chromium (total) Styrene

	MFORT	
	Parametri testati	N° test
	Ethylbenzene	2
	Vinyl chloride	2
	Toluene	2
	Xylenes	2
	Tetrachloroethylene	2
	Total trihalomethanes	2
	Total haloacetic acids	2
	Atrazine	2
	Simazine	2
í	2,4-Dichlorophenoxyacetic acid	2
	Nitrate	2
	Fluoride	2
	Total chlorine	2

Chloramine

Aluminum

Chloride

Manganese

Sodium

Sulfate

Iron

Zinc

Total Dissolved Solids

LIGH
THERMAL
SOUND

2

2

Ļ.	Parametri testati	N° test
흐	Illuminamento artificiale	50
_	Luce circadiana	0

ı b	Parametri testati	N° test
MFOR	PMV	4
8	Umidità relativa	4

2	Parametri testati	N° test
Z	Rumore di fondo	4
5	Speech privacy	0
'	Tempo di riverbero	1



From Research to Market

ESA – Building 14

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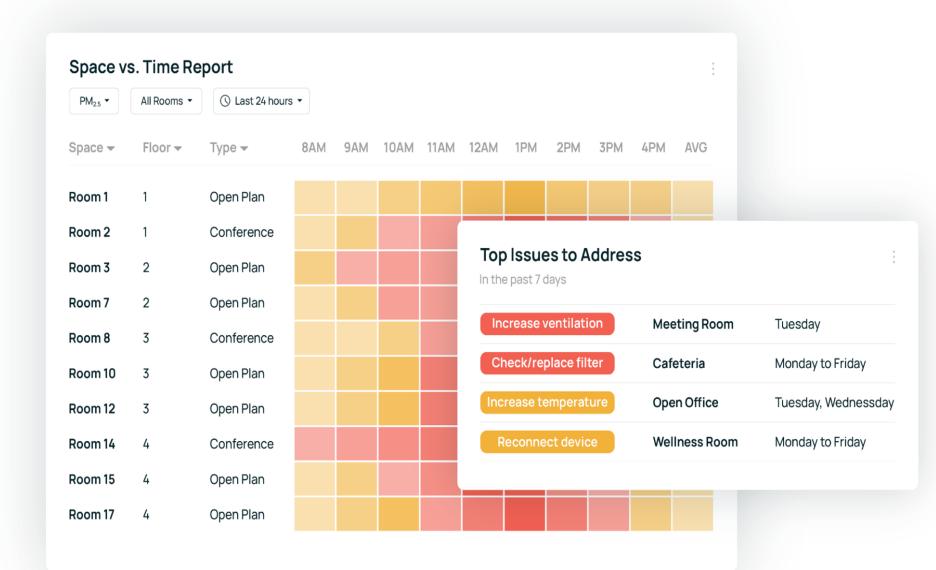
ESA ESRIN ▼

B14 Ground Floor V



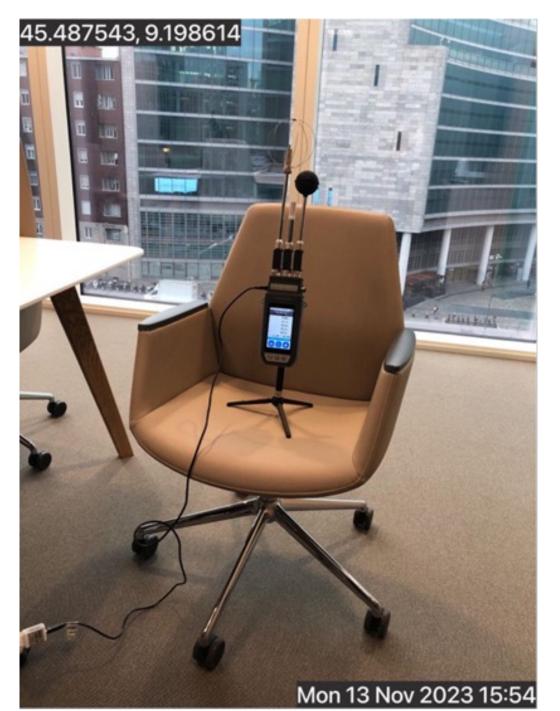






Overlap in parameters for IAQ testing

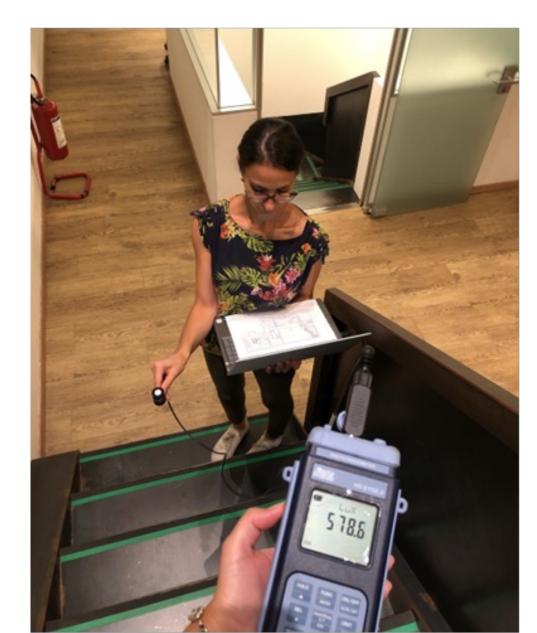
AIR Parameter	LEED	WELL
PM _{2.5}	Х	Χ
PM ₁₀	Х	Χ
Benzene (CAS 71-43-2)	Х	Χ
Formaldeide (CAS 50-00-0)	Х	Χ
Toluene (CAS 108-88-3)	Х	Χ
Monossido di carbonio	Х	Χ
Ozono	Х	Χ
Acetaldeide	Х	Χ
Naftalene	X	Χ
Acrilonitrile		Χ
Biossido di azoto		Χ
Dichlorobenzene (1,4-) 106-46-7	X	
Hexane (n-) 110-54-3	X	
Phenol 108-95-2	Χ	
Styrene 100-42-5	X	
Tetrachloroethylene 127-18-4	X	
Vinyl acetate 108-05-4	X	
Xylenes-total 108-38-3, 95-47-6, and 106-42-3	X	





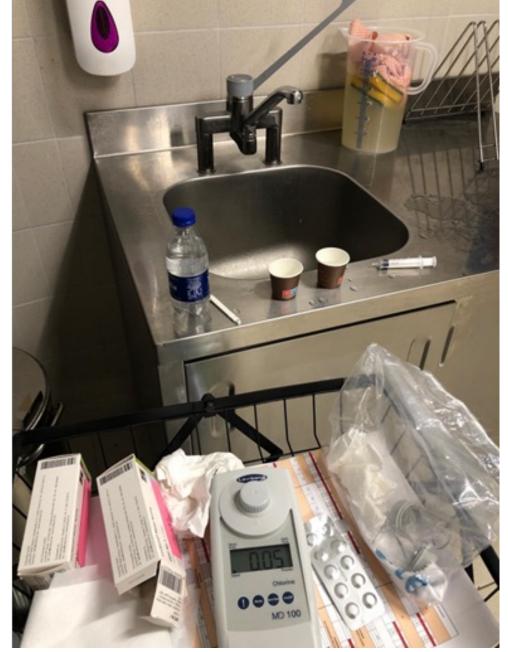






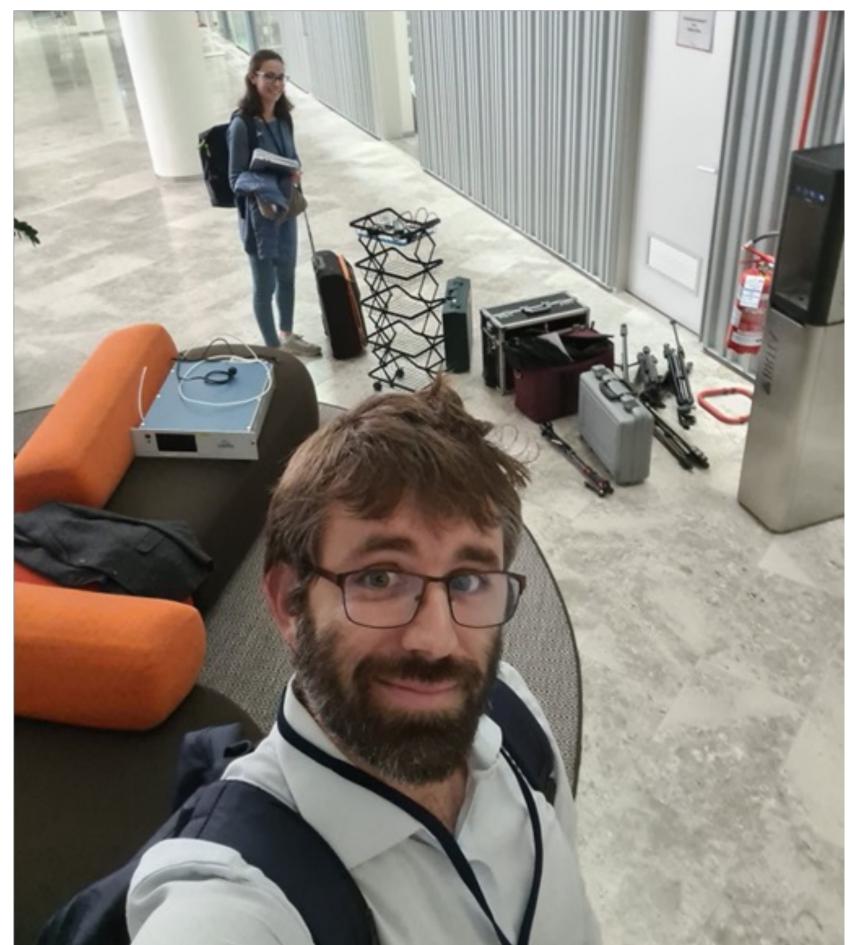
















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