

This Communication is part of a project that has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement N°101069732





Infocom World 2023

Energy Efficient, Health Safe and Sustainable Smart Buildings



Target



to minimize energy consumption and maximize health measures with smart-seating recommendations and automated housekeeping/building maintenance leveraging the aerOS edge-cloud continuum concepts

Powered by aerOS partners COSMOTE, UPV, NCSRD, FOGUS, INFOLYSIS



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aerOS Use Case 5 Application Architecture







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aerOS Health Index (Hi) What do we consider a healthy office space? Hi **Air Quality Thermal Comfort** CO: 30 ppm (1h) Temperature: 19 °C - 25 °C CO₂: < 1350 ppm Humidity: 30% - 50% **Particulate Matter (PM2.5):** 25 mg/m³ (24h)

• Settimo, G.; Manigrasso, M.; Avino, P. Indoor Air Quality: A Focus on the European Legislation and State-of-the-Art Research in Italy. Atmosphere 2020, 11, 370. <u>https://doi.org/10.3390/atmos11040370</u>

Indoor Environmental Input Parameters for Design and Assessment of Energy Performance of Buildings Addressing Indoor Air Quality, Thermal Environment, Lighting and Acoustics, B S I Standards, 2008
http://bpie.eu/wp-content/uploads/2018/10/The-Inner-value-of-a-building-Linking-IEQ-and-energy-performance-in-building-regulation_BPIE.pdf



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THANK YOU

Spyridon Georgoulas

Spygeorgoulas @iit.demokritos.gr



