

Helvar

Intelligence at the Cloud – Lighting & Beyond

Omar Nasir – Helvar Oy

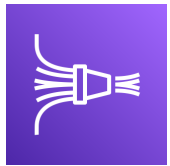
Turning Everyday Places into Brighter Spaces



The Helvar Lighting platform.

Leveraging cloud services to build data driven services.

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Amazon Kinesis
Data Firehose

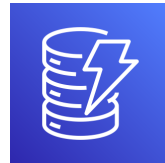


AWS IoT Core

Data Streams



Amazon Simple
Storage Service (S3)

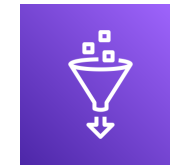


Amazon DynamoDB

Storing Data



Data lake



AWS Glue



Amazon Athena

ETL & Services

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Understanding Lighting Data

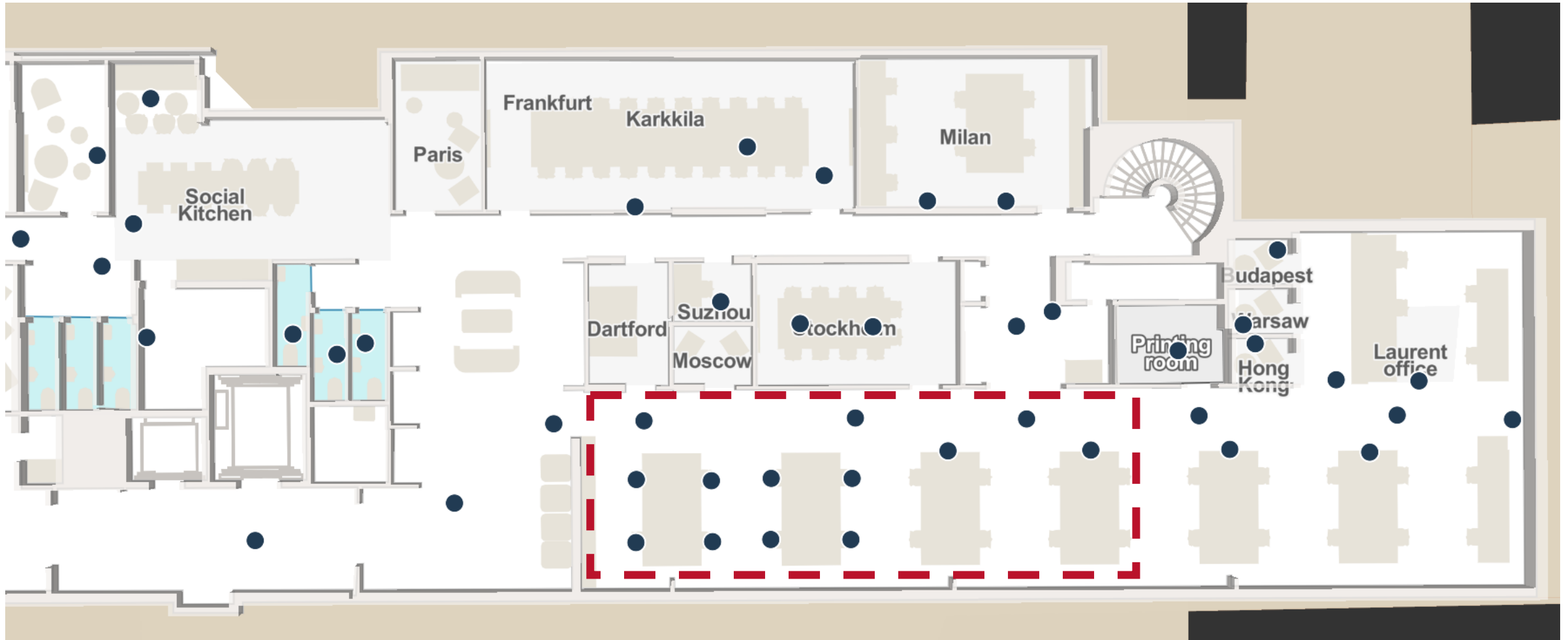
Services & Insights

Turning Everyday Places into Brighter Spaces



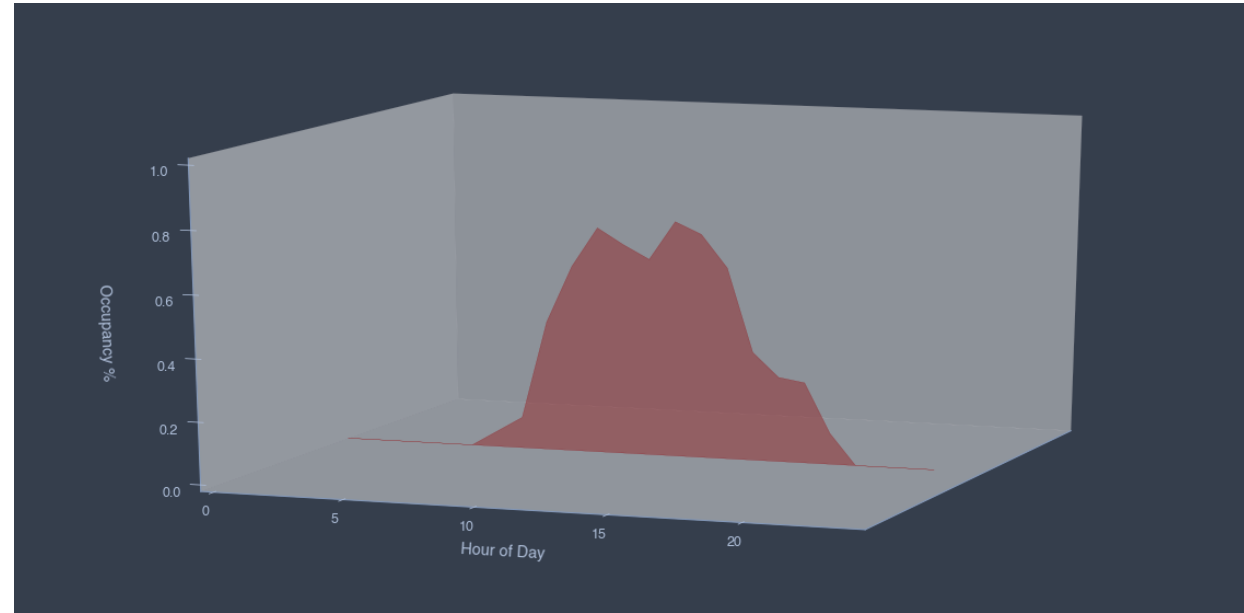
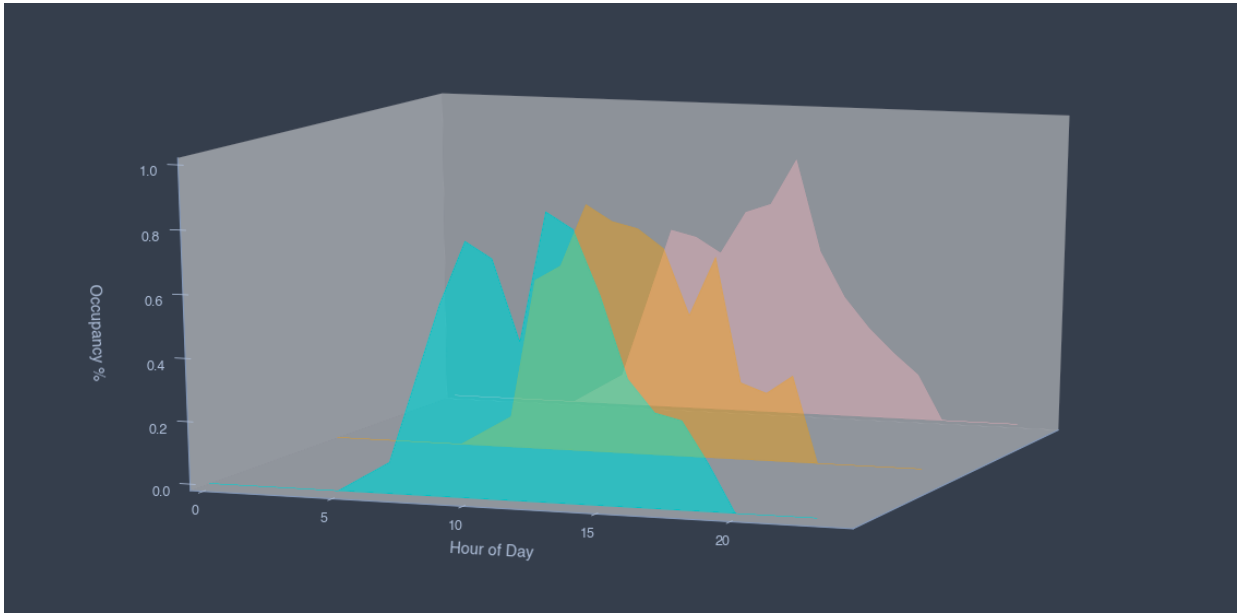
Understanding Lighting Data

Aggregating Spaces



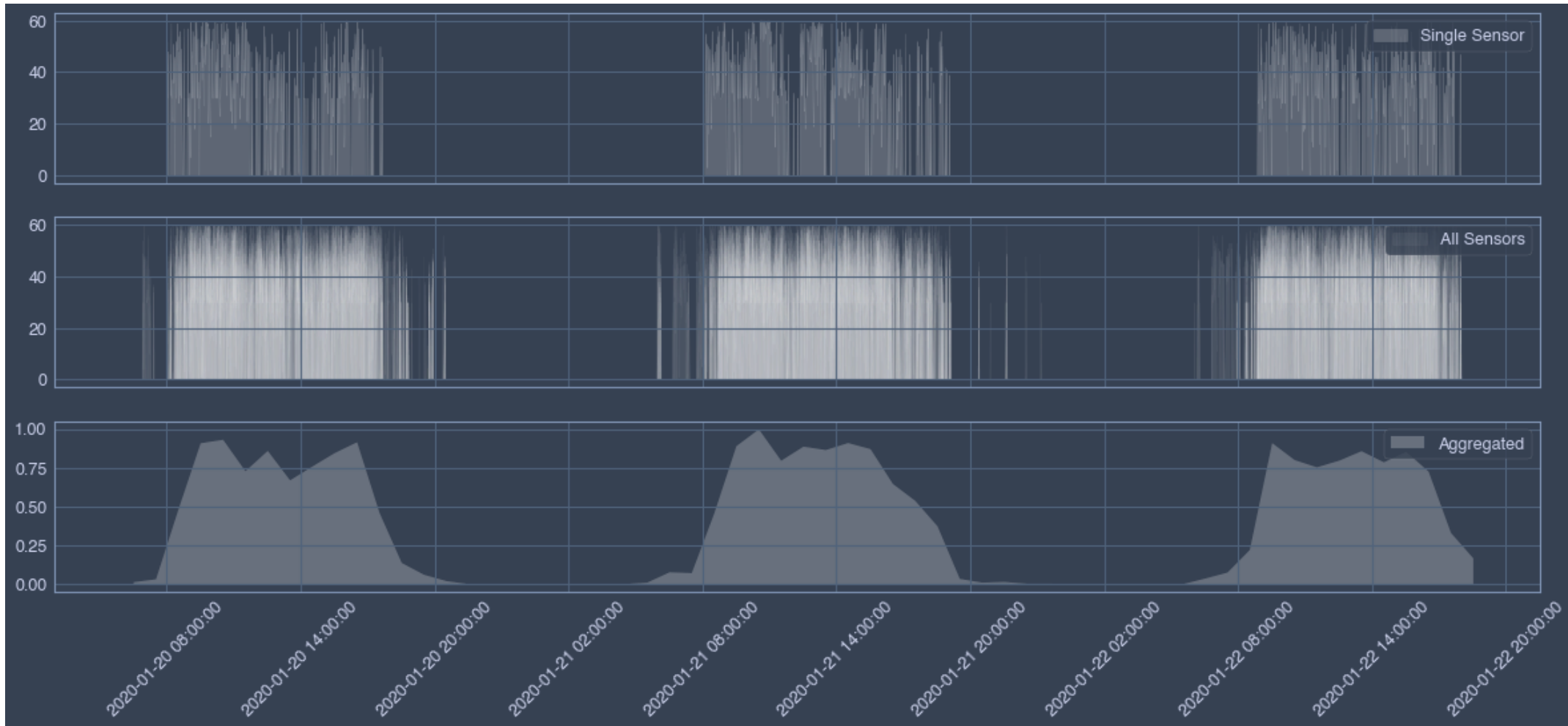
Understanding Lighting Data

Aggregating Sensor Outputs



Understanding Lighting Data

Aggregating Sensor Outputs.



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Applications of Lighting Data

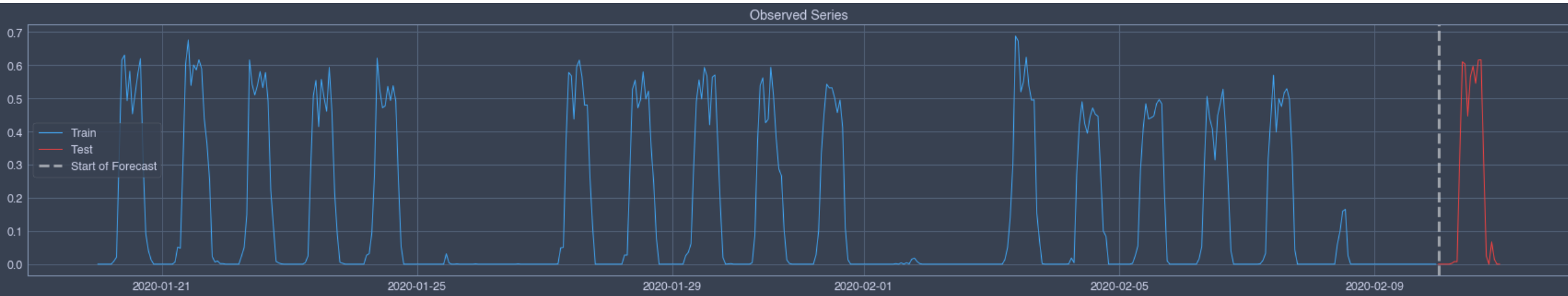
Predictive Occupancy for Spaces

Turning Everyday Places into Brighter Spaces



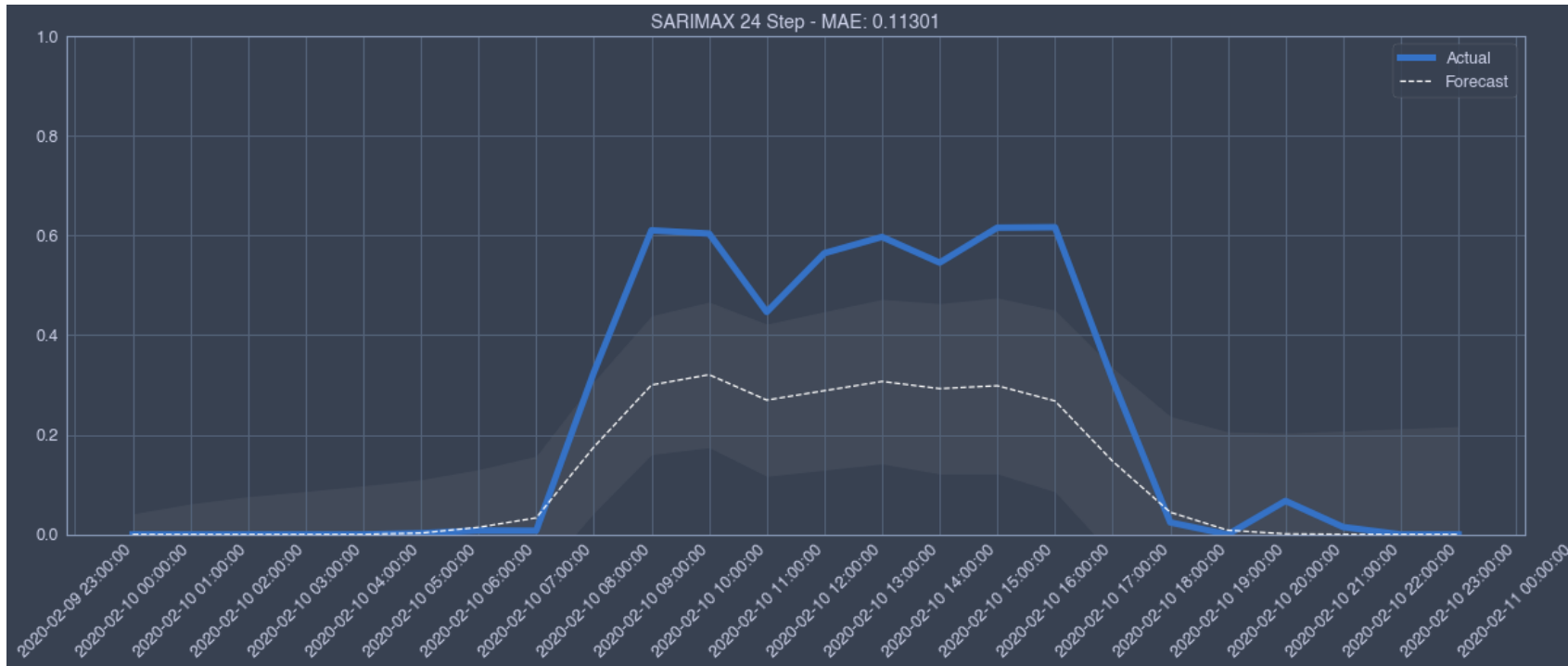
Applications of Lighting Data

Predicting Occupancy for Spaces



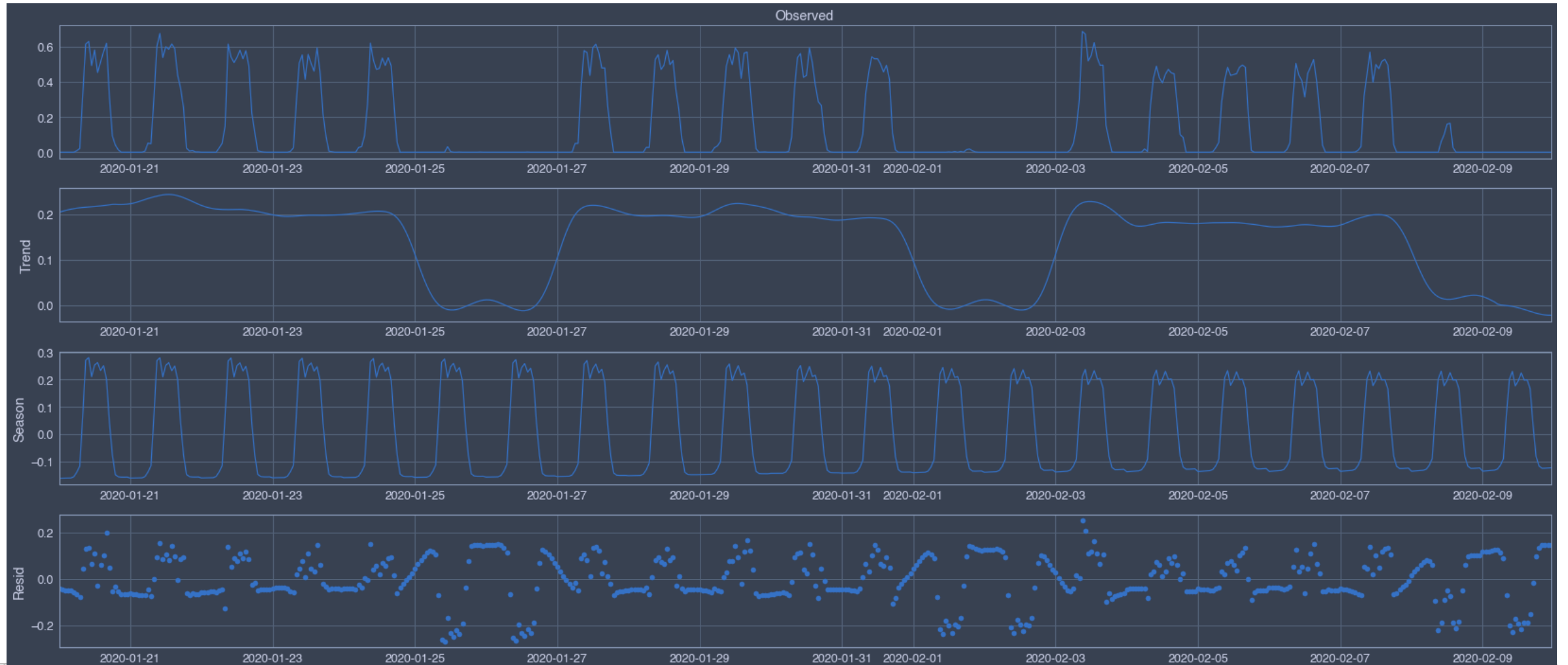
Applications of Lighting Data

Predicting Occupancy for Spaces



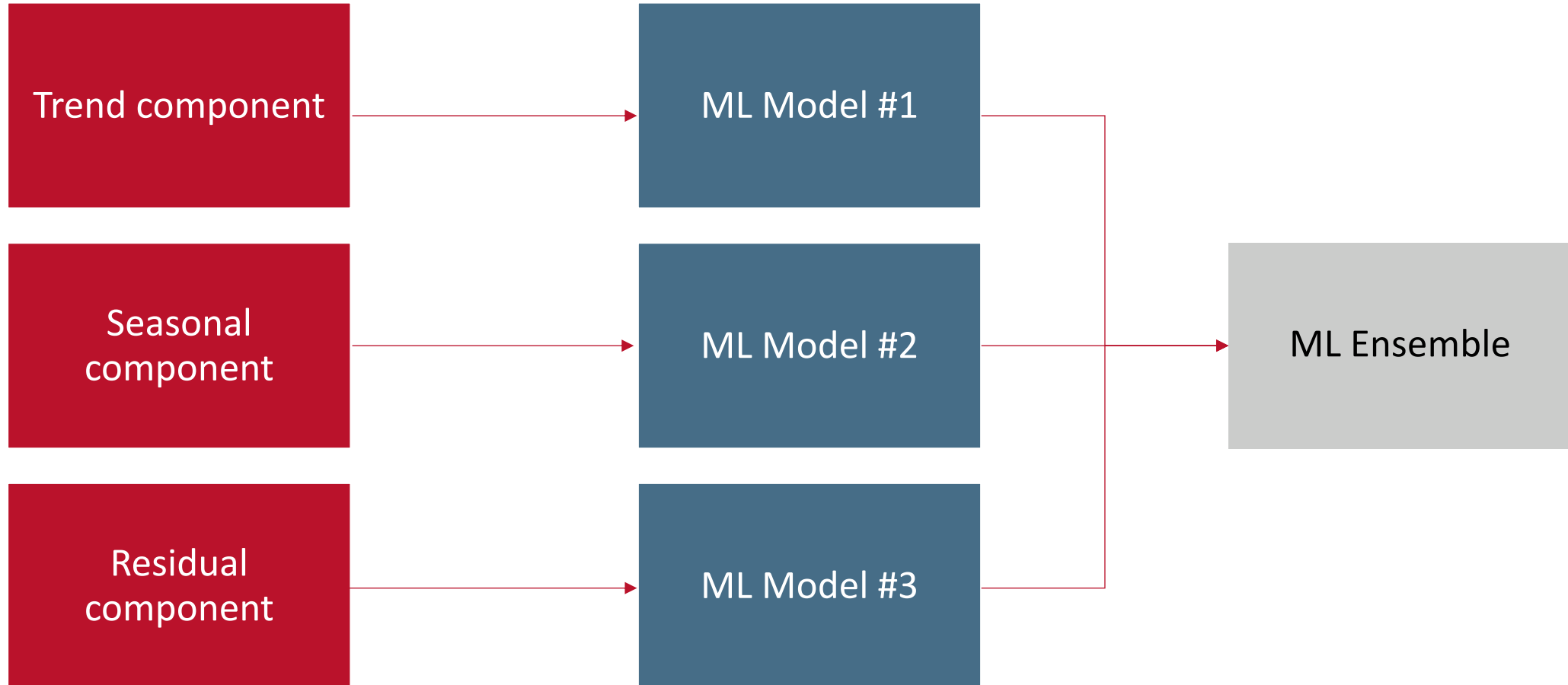
Applications of Lighting Data

Predicting Occupancy for Spaces



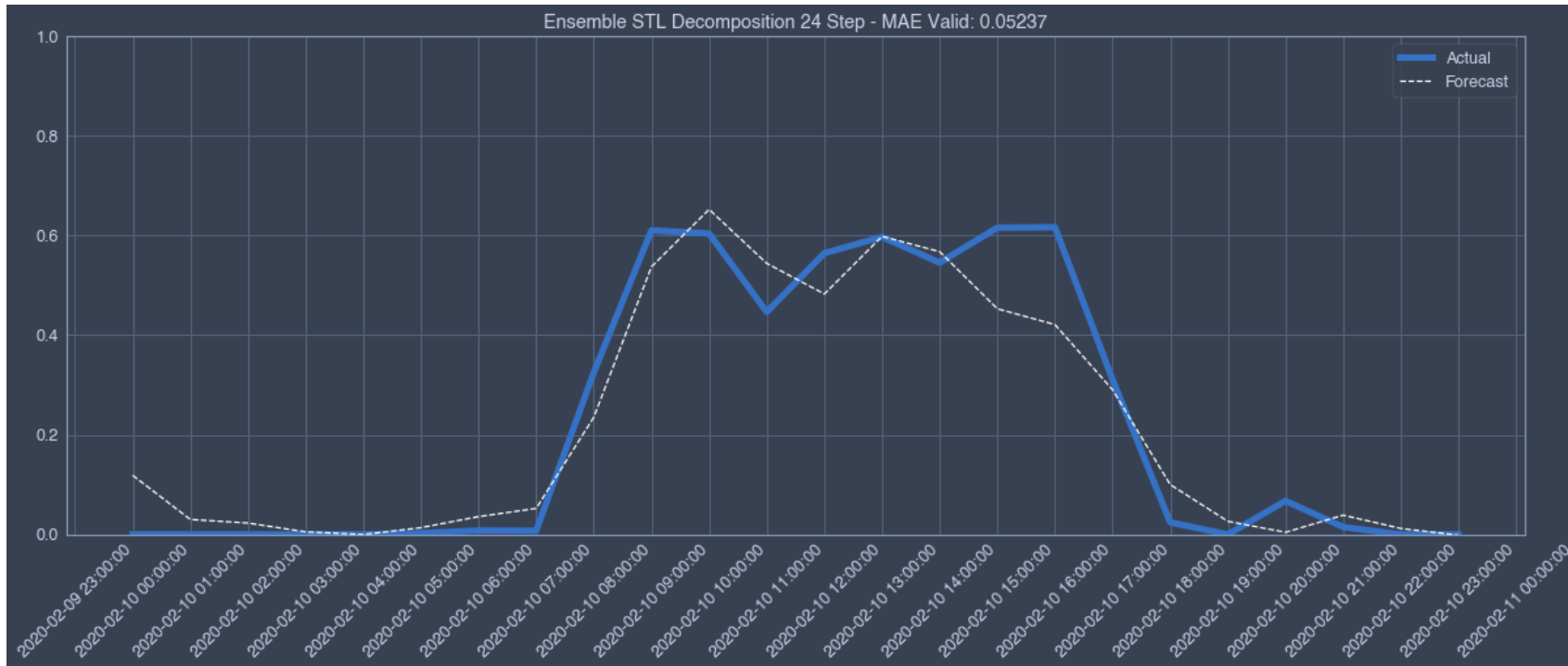
Applications of Lighting Data

Predicting Occupancy for Spaces



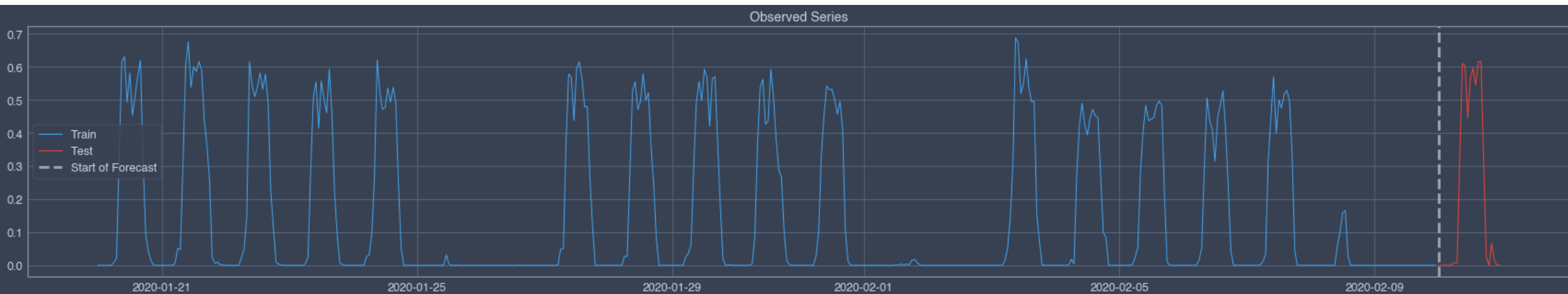
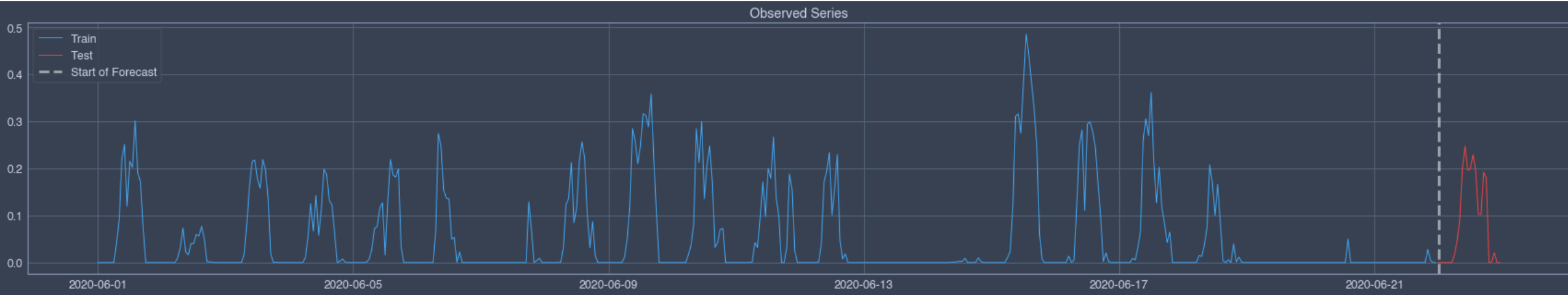
Applications of Lighting Data

Predicting Occupancy for Spaces



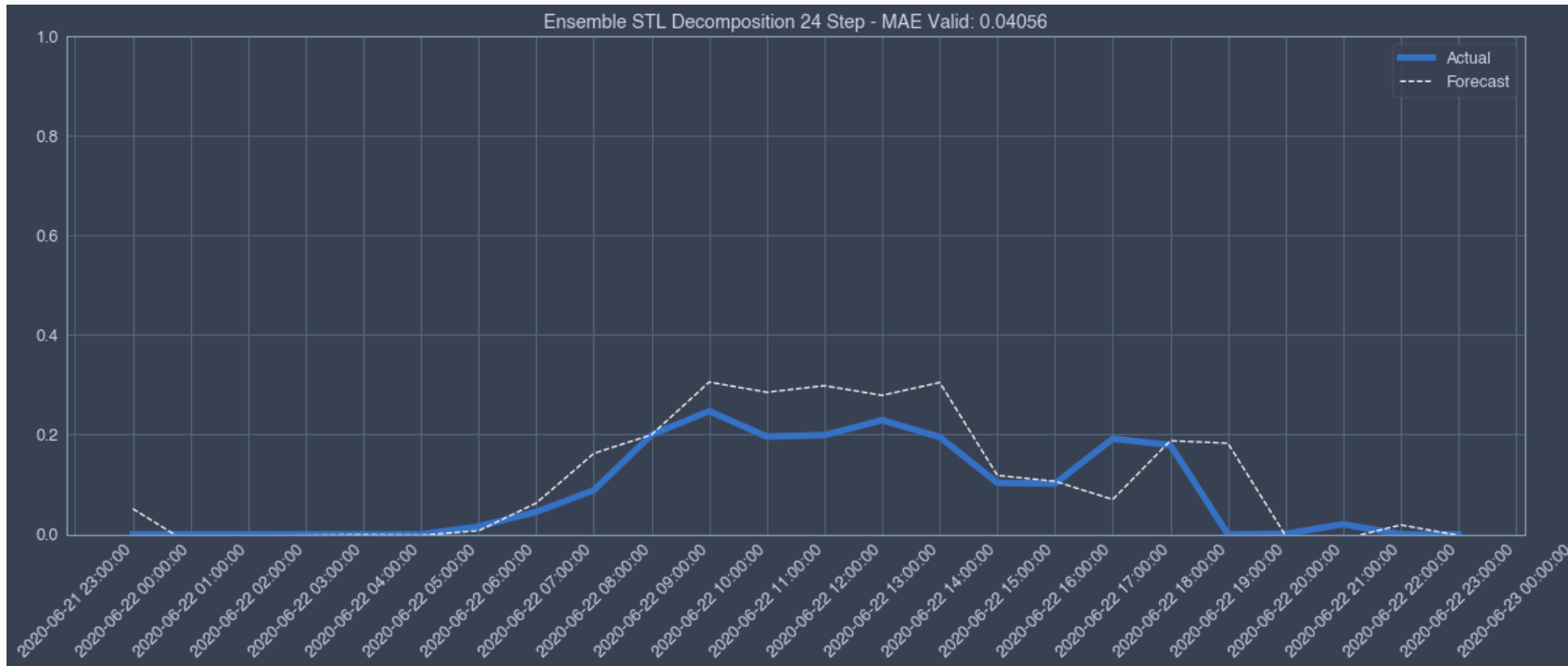
Applications of Lighting Data

Predicting Occupancy for Spaces :: Post-Covid Occupancy Changes



Applications of Lighting Data

Predicting Occupancy for Spaces :: Post-Covid Occupancy Changes

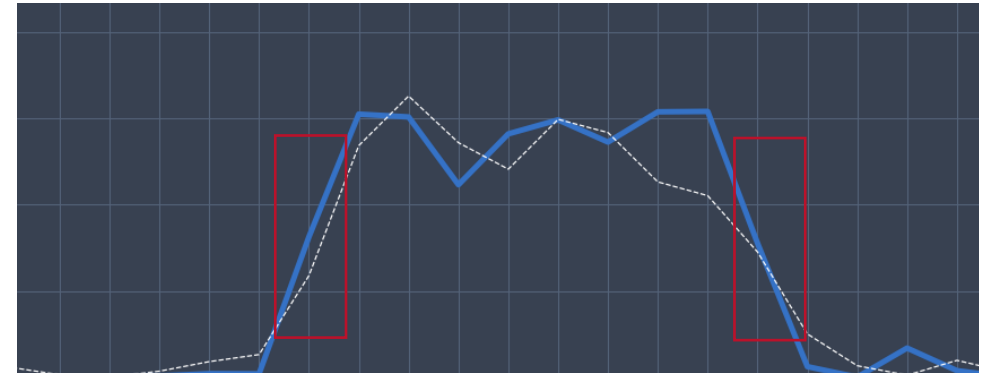


Benefits of Predictive Lighting

Tuning lighting parameters for energy savings

Interfacing with other Building Management Systems (BMS)

Utilization insights



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Applications of Lighting Data

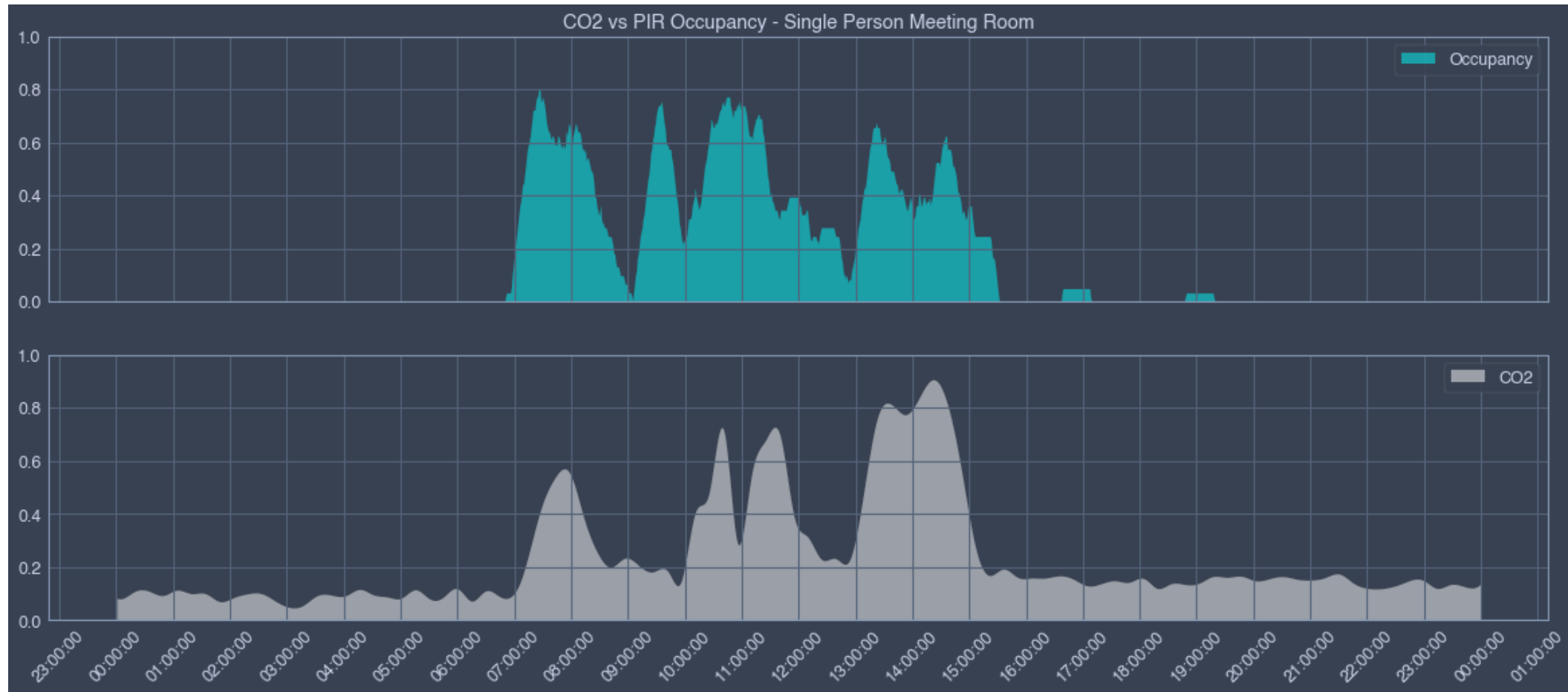
Predictive HVAC

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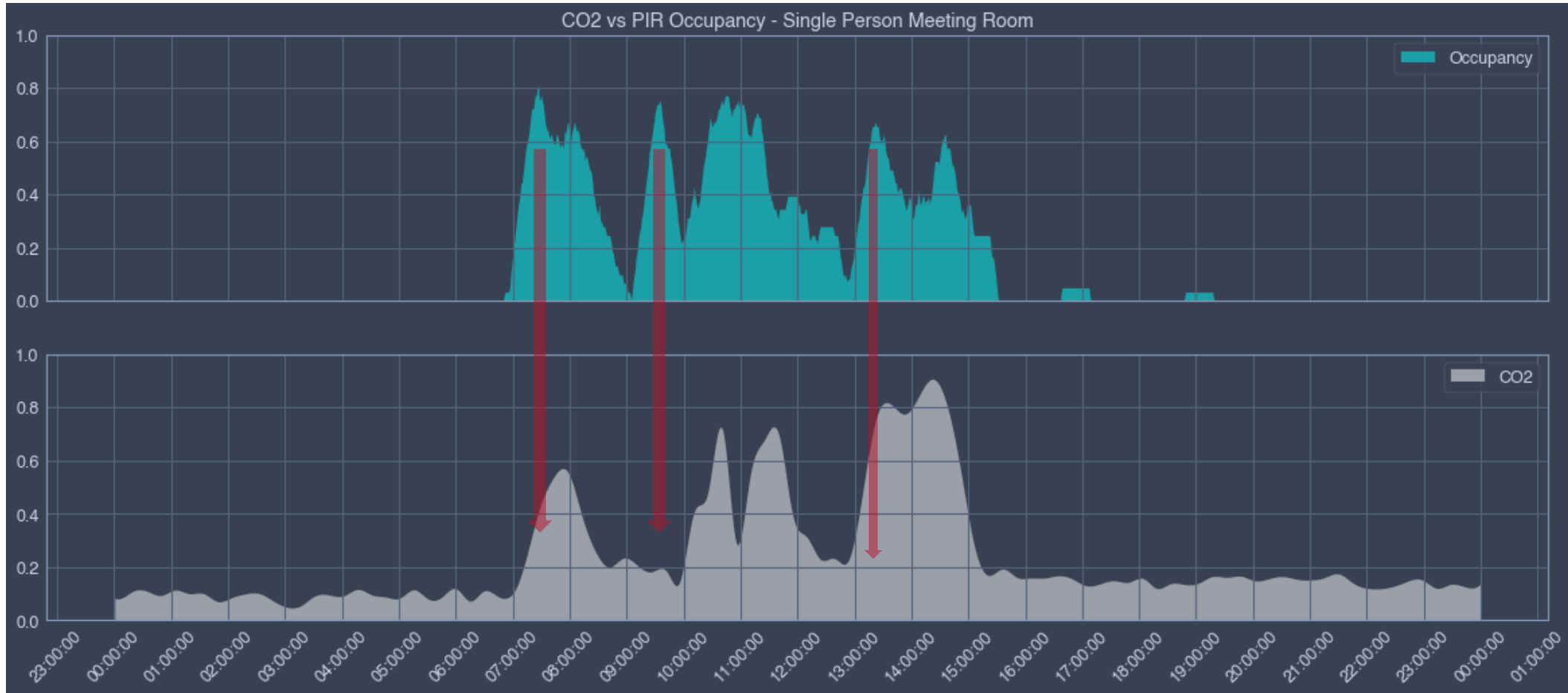
Applications of Lighting Data

Predicting HVAC



Applications of Lighting Data

Predicting HVAC



Benefits of Predictive HVAC

Direct feedback loop with HVAC systems

Energy and well-being optimisation

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Q/A

Thank you for Listening!

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