BlockDox

We make spaces smarter™

City infrastructure in the future –
maximising its efficiency

www.blockdox.com

In the Future

People, buildings and transportation will 'think for itself', be seamlessly automated and interoperate to create smart cities.

BlockDox's role in this starts today with our focus on being the intelligence within smarter spaces.

Who We Are

BlockDox is a data science focused proptech company based in London, UK.

We help organisations solve complex problems in the urban environment using Artificial Intelligence and the Internet of Things (AIoT).

Why we do it

Space operators lack the data or interpretation tools to manage physical locations based on actual need rather than fixed assumptions.

These inefficiencies lead to wasted resources and lost revenue.

Our Solution

BlockDox's intelligent platform brings meaning to data as real-time, predictive and actionable insights.

Our solution works across multiple space types and is privacy compliant: No beacons, cameras, apps, tags used

The result is a competitive edge.

Our Product

Crowding density and people count for the space.

Indoor Air Quality score

Contribution of individual air quality metrics to the overall IAQ Score

Occupancy counts for individual zones in the space.

Link to charts for comparison of IAQ metrics and People Density

Link to actionable insights for health and wellbeing

Link to detailed analytics and periodic reports.

Building Dashboard Example

Transport Dashboard Example

How We Do It

We deliver missing insights from multiple data streams and provide key context to space management

What are the benefits to smart buildings

Energy saving

Space optimisation

Improve health, well being & productivity

Increase revenues

Improve operational efficiency

Compliance

ENERGY

56%
SAVING EXPENSE

By combining occupancy and building management strategies

CLEANING

1€ **Per sq ft**
SAVING EXPENSE

By providing services according to actual demand

BUILDING

7%
VALUE INCREASE

Healthy buildings worth more, are easier to rent & command higher rates

AIR QUALITY

34%
PRODUCTIVITY

Staff are proven to be more productive in healthy buildings

SPACE

42€ **Per sq ft**
SAVING EXPENSE

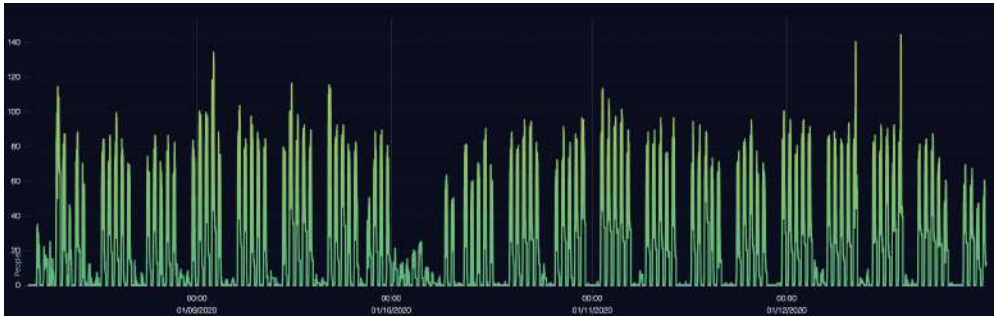
Reducing required floor space by 20% from detailed occupancy insights

Fighting Climate Change: Case Study

Insights Identified:

- Annual Energy Savings Identified:
  £1,145,000 /year
- Annual Carbon Saving Realisable:
  1,950 tons C02 /year
- Additional savings from improved Space Utilisation
  £183,057++
- 51% of Energy Consumption is from lighting and power alone
- 24% of the overall energy consumption occurs outside of working hours (7pm-5am)

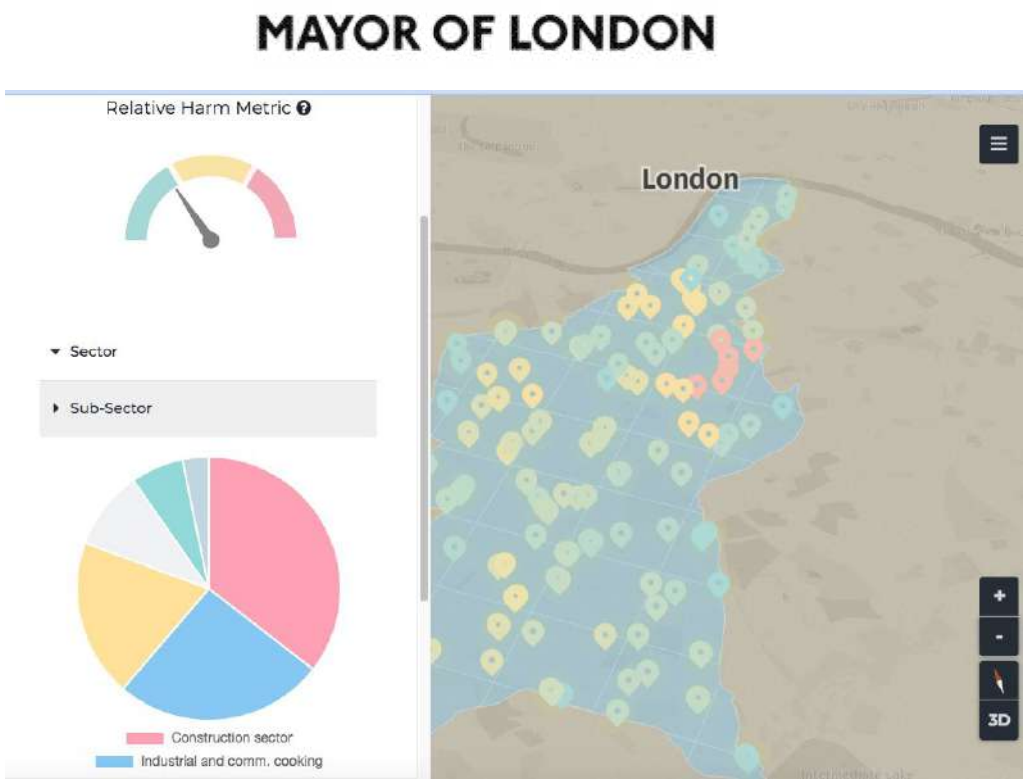
Fighting Climate Change: Case Study



Smart City Application

- Guangdong, China
- Collaboration with QMUL & Chinese Academy of Sciences
- State-of-the-art 3D-City model incorporating occupancy and energy data to predict Carbon footprint and C02 emissions

Tackling Air Pollution: Case Study

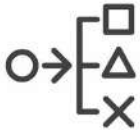


Smart City Air Quality Application

- Winner, Mayor of London's Air Quality Challenge
- With high levels of air pollution, and only limited public funds available Cities face a challenging task deciding where to prioritise air pollution interventions.
- BlockDox's tool includes a Relative Harm Metric to prioritise interventions to help the most vulnerable people.

What are the benefits to public transport

Targeting Service Delivery with Real Time Passenger Demand



Manage Crowding & Service Disruption

Enhance Customer Satisfaction & Covid Safety

Optimise Passenger Boarding & Alighting Times

Improve Timetable, Capacity & Route Planning

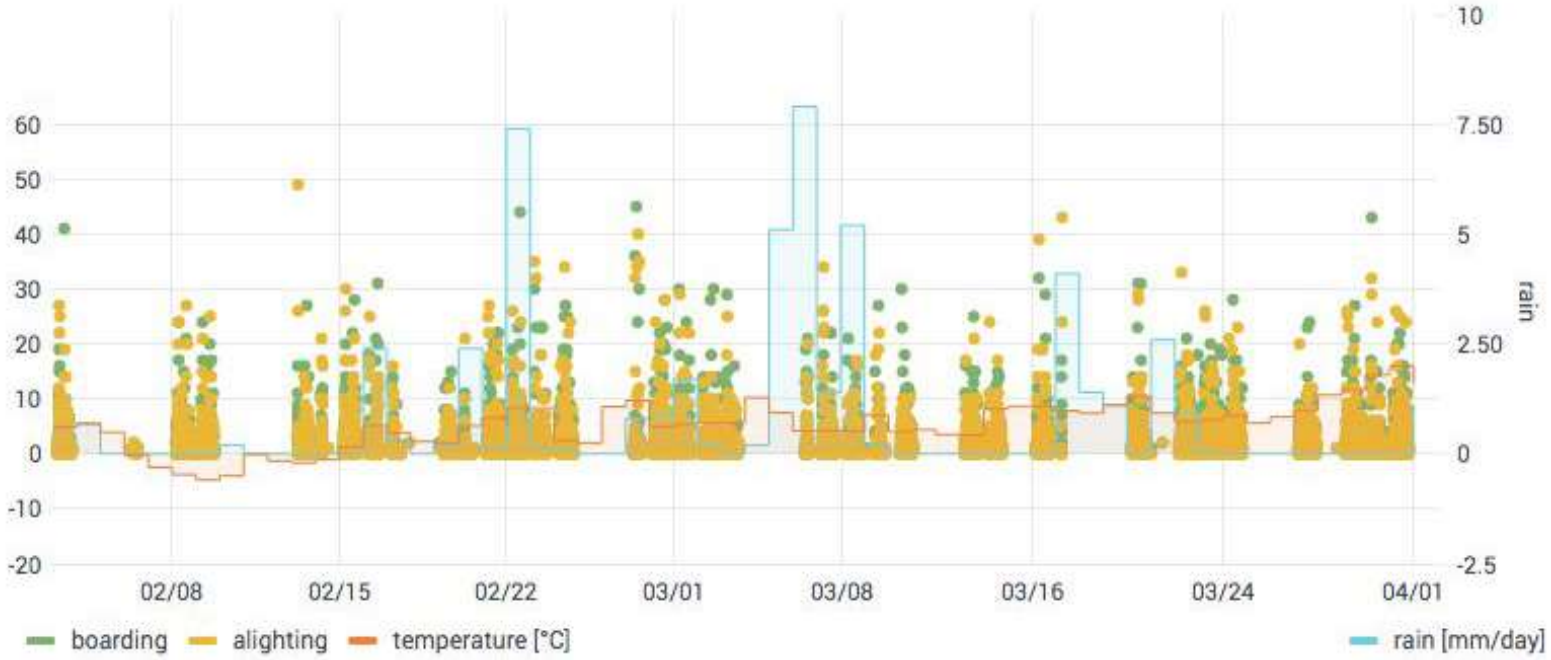
Regulatory Compliance

Public Transportation: Case Study

Passenger Rail Application

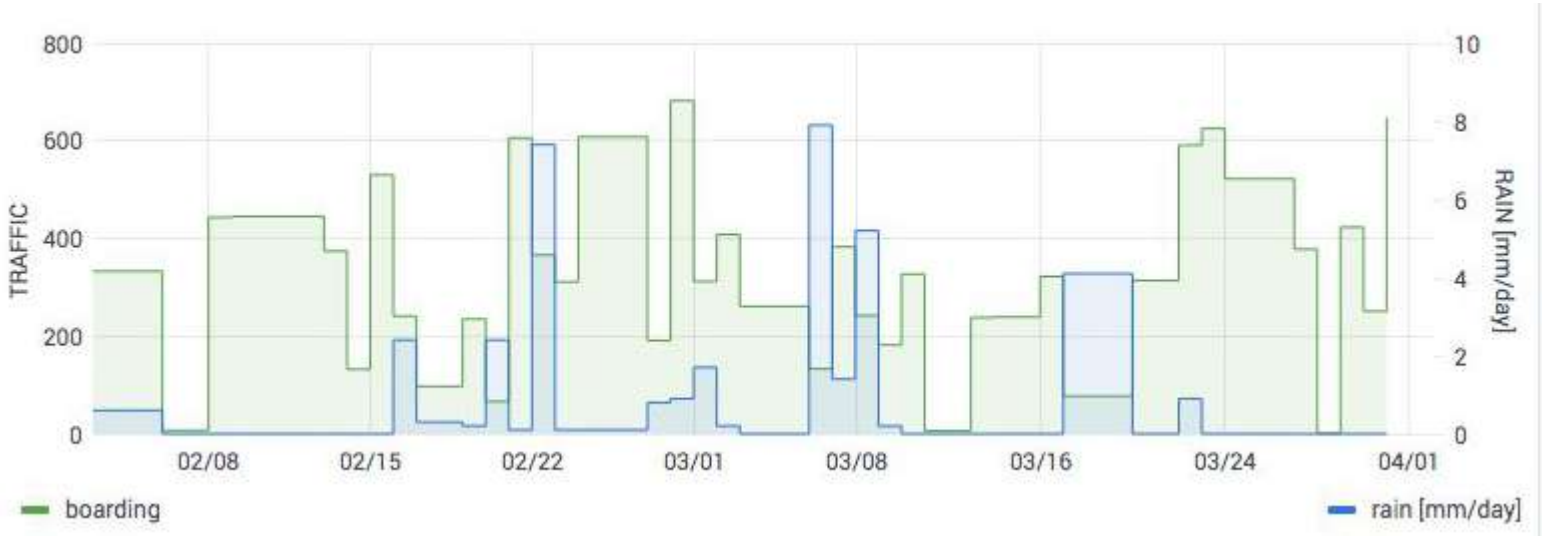
- Passenger Counting Sensors installed on an intercity train
- Predictive passenger boarding patterns produced
- The train timetable could be adjusted to be a direct, fast service rather than continuing to stop at these stations.
- Improves efficiency, reliability, reduces vehicle maintenance and improves passenger satisfaction.

Public Transportation: Case Study



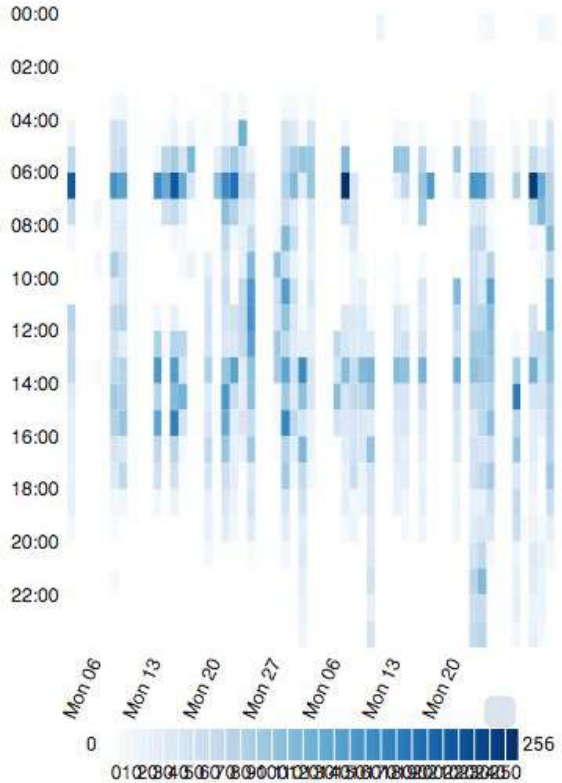
Does weather influence bus passenger demand?

Public Transportation: Case Study



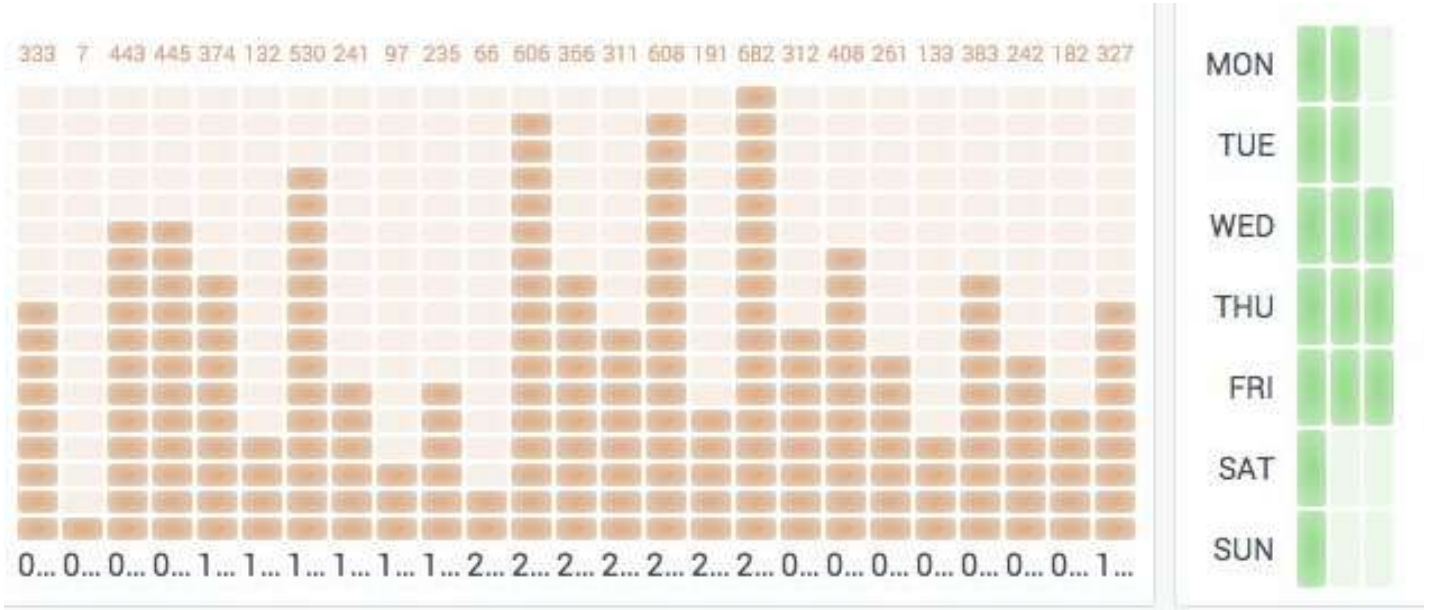
Does rain influence bus passenger demand?

Public Transportation: Case Study



What bus routes / times are busiest by passenger numbers?

Public Transportation: Case Study



What days / weeks have the busiest boarding times?

"One of the "50 highest growth startups in the UK"

We've Been Featured In:

BBC NEWS · CHANNEL NEWSASIA · THE SUNDAY TIMES · GOV.UK · London Evening Standard · UK GBC

We've Received Multiple Awards Including:

Innovate UK · Department for Transport · PITCH@PALACE · eurostars™ · Newton Fund UK Research and Innovation · MAYOR OF LONDON

Contact: **Nicolas Shulman**
E: nic@blockdox.com W: www.blockdox.com T:**+44 (0)800 069 8188**