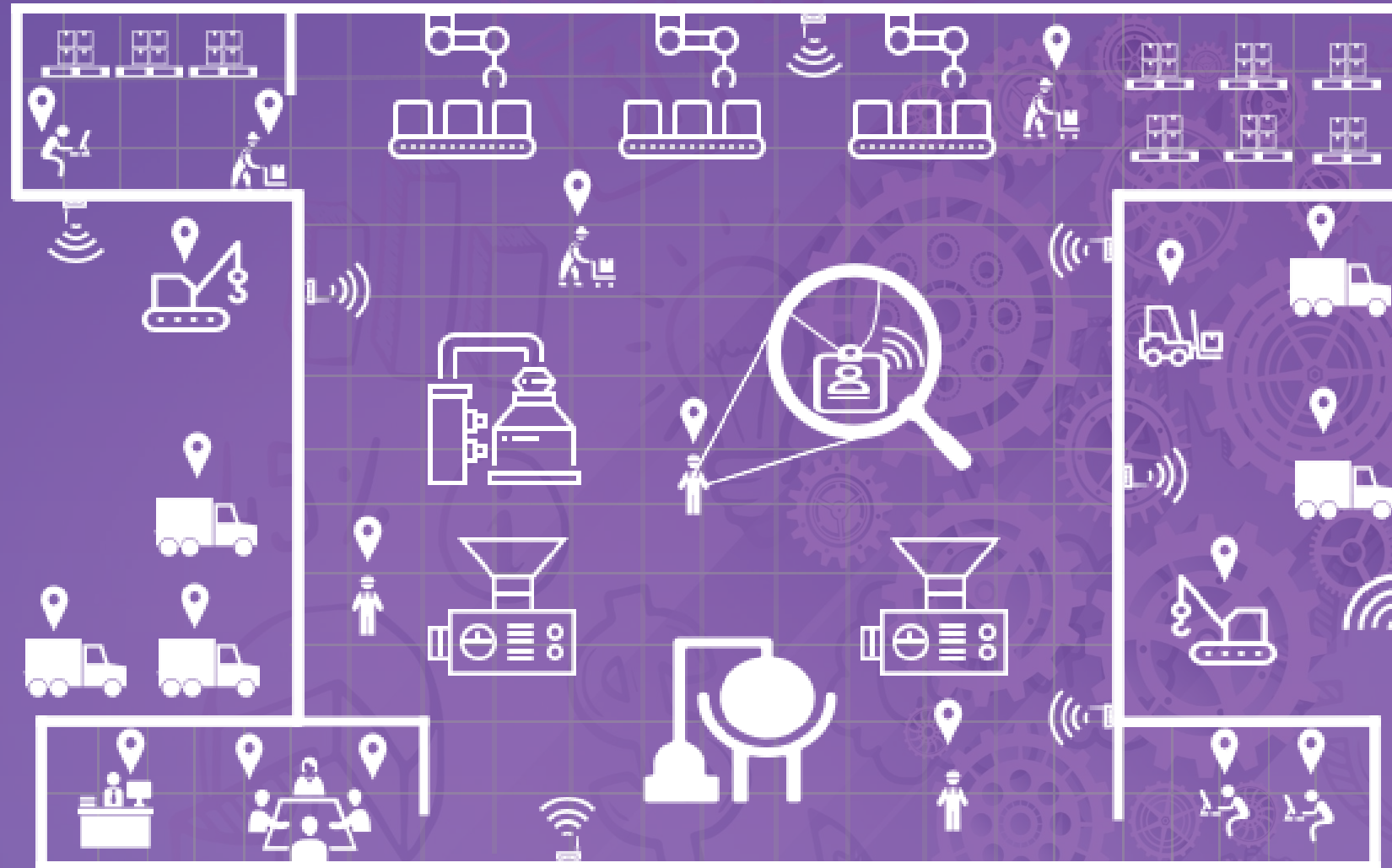# Syook

Intelligent Business Systems !

What you can't see you can't measure
What you can't measure you can't improve

- <u>What We Do</u>
- How We Do It
- Asset Tracking
- Case Studies

What We Do

Contractor Anil Rai has been working for over 8 hours.

Forklift 3 has moved out of loading area.

Truck AP29 1234 has been in loading area for over 3 hours.

Syook Track Dashboard
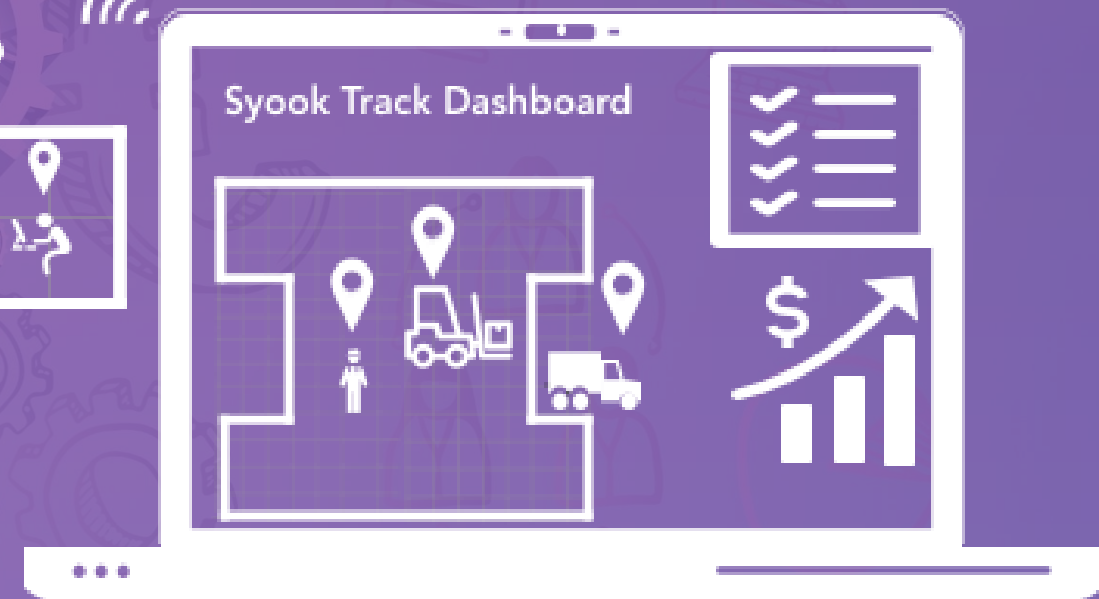
Syook displays in **real time**, **location** of movable **assets** in the facility and **notifies** about relevant **operational** events. The captured **data is analyzed** and made available as insightful **reports, charts** and **heat maps**

- What We Do
- How We Do It
- Asset Tracking
- Case Studies
- Our Clients

Process Flow

BLE Sensor Technology

Indoor Positioning System

Enterprise Applications

Powerful Analytics
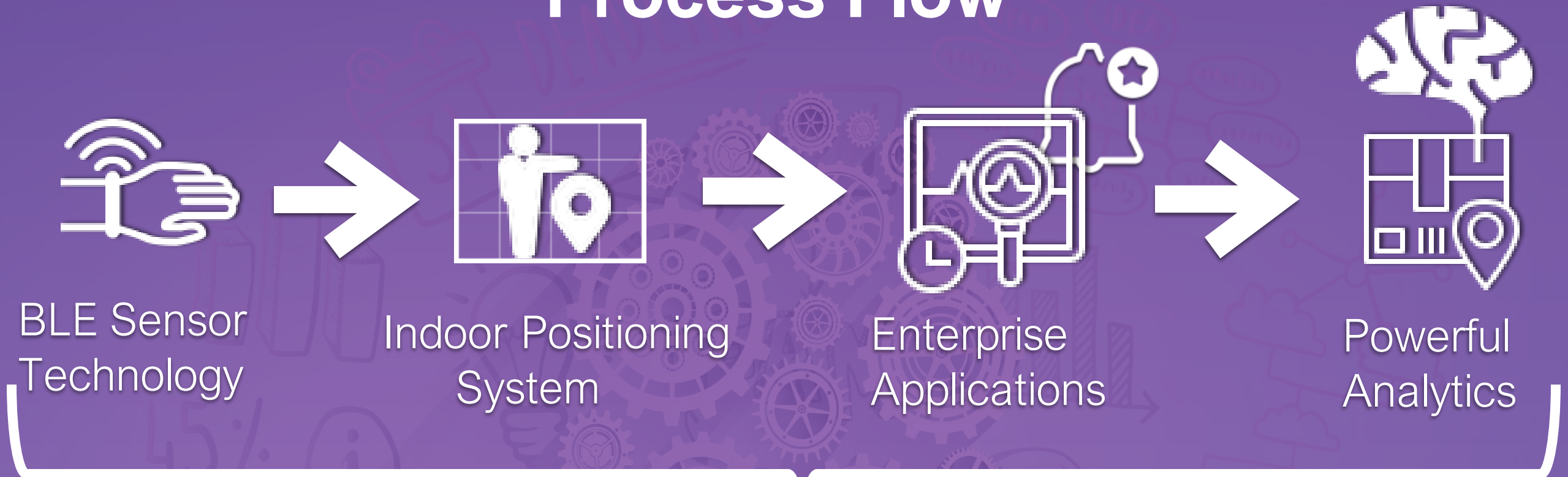
Bluetooth Low Energy Sensors (BLE Beacons)

BLE tags for people and asset location in Real Time

Integrate different sensors like motion & temperature

View Real Time operations on a map

Compliance

Productivity

Safety

Syok

Typical Deployment
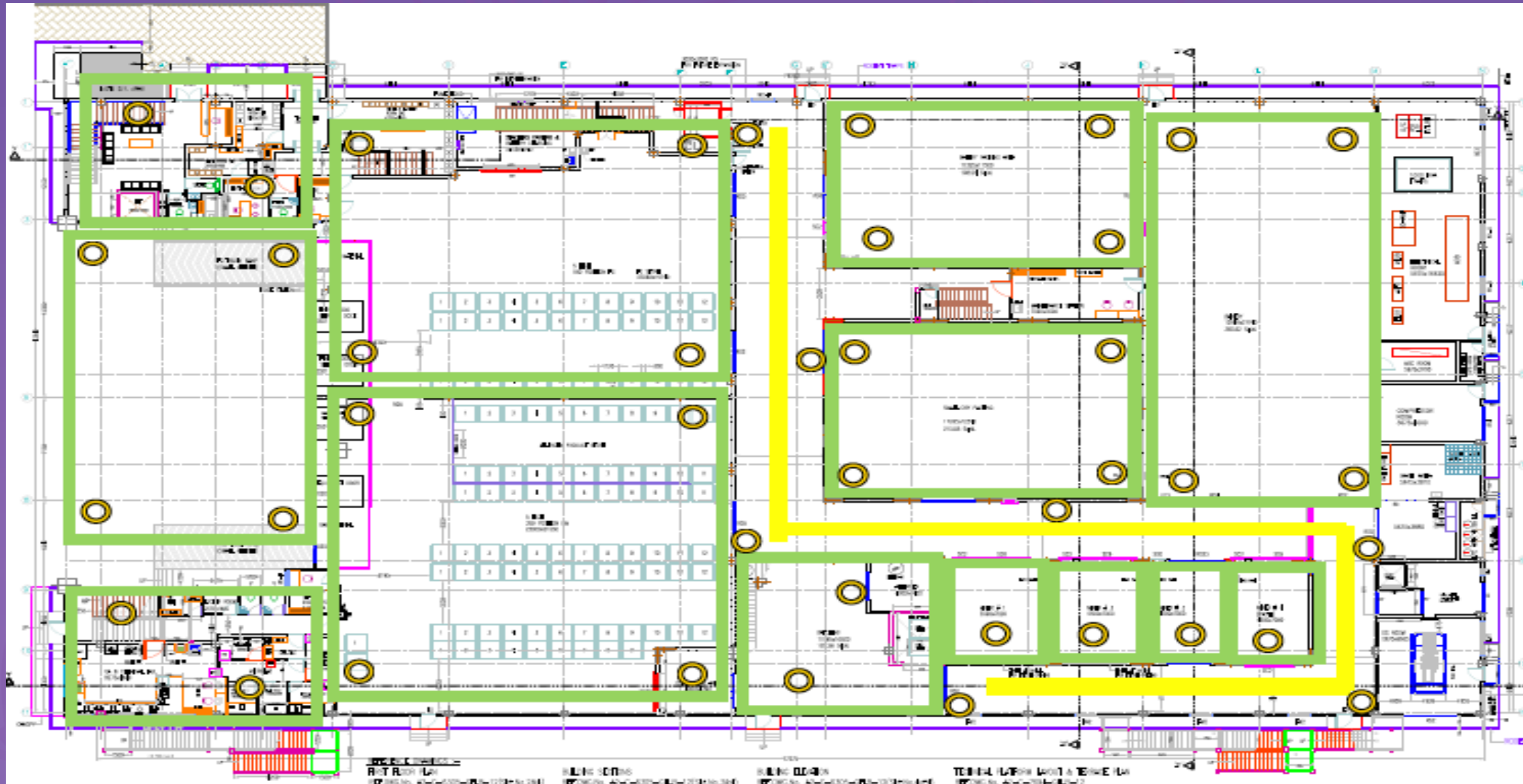
- ➤ Precise measurements of the deployment area are taken
- ➤ The quantity of readers is planned – for Proximity or Trilateration or Mixed
- ➤ Zones are defined after discussions with the client
- ➤ The locations for the Gateways are planned based on the available infra
- ➤ The precise locations of the Deployed Gateways are marked on the map

- What We Do
- How We Do It
- <u>Asset Tracking</u>
- Case Studies

Various Applications of Syook RTLS

- High Value Asset Tracking

- MHE and Forklift Tracking

- Employee Management System

- Contractor Management System

- Compliance Management

- Visitor Management

- Emergency Mustering

- Truck Turn around Time

Syook

Syook Asset Tracking Advantages

Increased Operational Productivity

➤ Locate assets instantly

➤ View of the operation on a single dashboard

➤ Continuous data capture enables regular opportunities to improve productivity

Improved Asset Utilization

➤ Real-time asset utilization rates

➤ Optimise the movement of assets, identify items in high demand

➤ Data from regular experiments can be analysed to assess the impacts on operational performance

Faster Turnaround Time

➤ Automatic location, faster identification and dispatch of required assets

➤ Improve worker efficiencies, saves fuel for the forklift/crane

➤ Reduce the waiting time of the transport vessel/truck , or to prevent theft

Syook

Syook Asset Tracking Advantages

Stronger Compliance Procedures

➢ Manual compliance monitoring is impractical and difficult to enforce. With InSite, compliance is built in

➢ Get real time alerts if expensive equipment is moved without authorisation

➢ Get real time alerts if any asset (like chemical drum) is moved/placed in a restricted area

Pilferage Prevention

➢ If any BLE Tag or a Tagged asset is transported out of the assigned area, the system will identify last location and raise alert

➢ SoP's can be defined to handle such situations and timely action can be coordinated to prevent wrong asset being shipped out, or to prevent theft

Alert sent to Security Officers, Store/Admin

Syook InSite Alert: Asset B1C9 unauthorized movement towards Docks from junction 1 at 04:22 PM.

Syook

Syook Asset Tracking Advantages

Warehousing Best Practices

First In First Out (FIFO)

➢ Quickly Identify older stock so it can be shipped out first

➢ Search and identify consumables nearing their expiry date to ensure utilisation before use-by date

### Preplan Picking Waves

➢ Instead of collecting items on the basis of voucher sequence, plan out picking waves in the most efficient routes

➢ Streamline the picking process for faster turnaround times, more efficient use of labour and manpower

Syook Asset Tracking Advantages
Asset Movement History

➢ The users will be able to see heat maps and reports depicting the movement of the assets in the facility

➢ Un-necessary movement leading to wear and tear or wastage of time can be identified and the asset positioning can be improved

➢ Assets which have not shipped out for a long duration can be identified and actions can be planned (e.g. transport to other facility where demand is higher, move to unobtrusive location, pack and move to long term storage for extending the shelf life)

Heat Maps based on the historical location data of assets
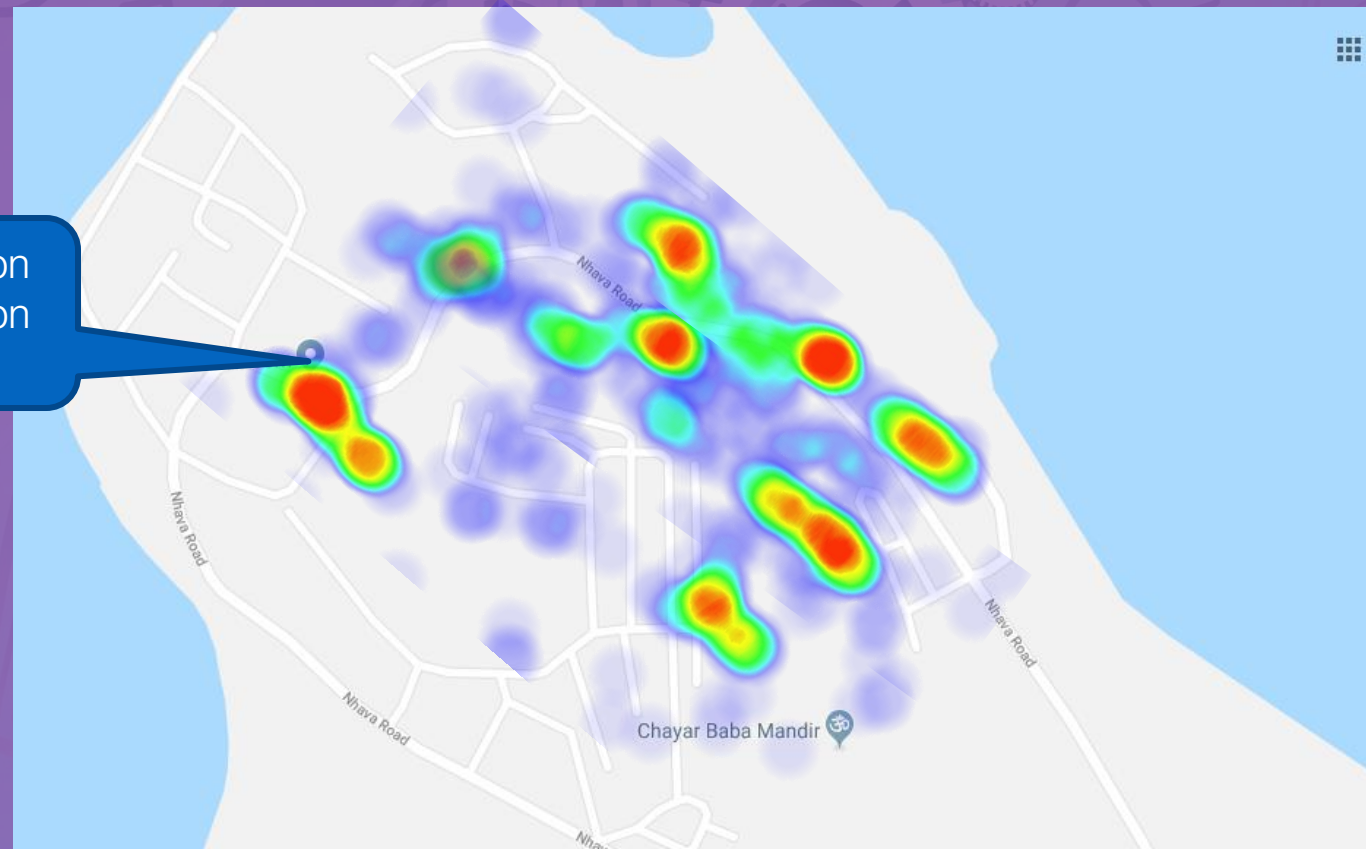
- ➢ What We Do
- ➢ How We Do It
- ➢ Asset Tracking
- ➢ <u>Case Studies</u>

Applications – People Management

Employee And Contractor Management

Use Case
Real Time Attendance and location on the floor
Example
Employee Ram Dayal is in the sorting area for over 7 hours today.
Benefits
Increase Productivity
Real Time Visibility

Case Study

Client
Large Logistics Company
Problem
The contractors should be spending majority of their time near the docks, but contractors spent unaccounted time inside the sorting area
Solution
Syook helped track the contractors in real time and enabled reports based on historical data to identify the actual time spent by the contractors in the loading/unloading docks.
Benefits
Higher worker efficiency
Better compliance management
Improved truck turn around time

Applications – Mustering

Visitor Management

Use Case
Faster headcount during emergency evacuation and last known location of missing workers.

Example
The headcount in the mustering area was completed in 30 seconds and the missing workers were shown on the app to be present in the cafeteria.

Benefits
Improved Safety Compliance
Faster evacuation
Faster help for workers in trouble

Case Study

Client
FMCG MNC

Problem
The mustering process was taking too long due to slow manual headcount. It took 15 minutes just to find out if a person was missing. Additional time was spent in finding the name of the missing person and his photo.

Solution
Syook provided the mustering solution and the mobile app for automatic headcount. Even with the power supply switched off the mobile app could read the BLE Tags and get a headcount in less than 1 minute. The missing employees last known location was available on the mobile app and they could be quickly brought to the mustering area

Benefits
Mustering time dropped to 2 min 30 sec from 17 min 30 sec
Missing workers could be located immediately

Application – TITO

Reduce Truck Turn Around Time

Use Case
Benchmark the time in which a Truck should be able to complete the loading/unloading and leave the premises

Example
Truck driver Mahesh is able to get his truck unloaded and leave the warehouse in 45 minutes, while truck driver Sandeep takes 125 minutes for the same.

Benefits
Identify the suppliers and drivers who are habitually causing delays due to improper paperwork or sneaking away after parking the truck
Improve TITO and reduce jams at the warehouse

Case Study

Client
Automotive MNC

Problem
The client could not calculate the time taken by a truck to load/unload as they could not ascertain the actual time spent at the dock. The drivers were parking the trucks and disappearing for hours, unnecessarily occupying space.

Solution
Syook started tracking the trucks and the drivers. The end of the month report identified the best and the worst performing drivers and vendors.

Benefits
Average Truck Turnarounds reduced by 90 Minutes
Identified worst performing vendors and forced them to fix the issues causing delays like incomplete paperwork
Enabled real time tracking of the driver to ensure the truck moves on time

Sample Reports

Time Range 1 Aug '18 📅 to 12 Aug '18 📅   ⬇ Export   + Add a Widget

Employee count in the premise   All Employees ⌄
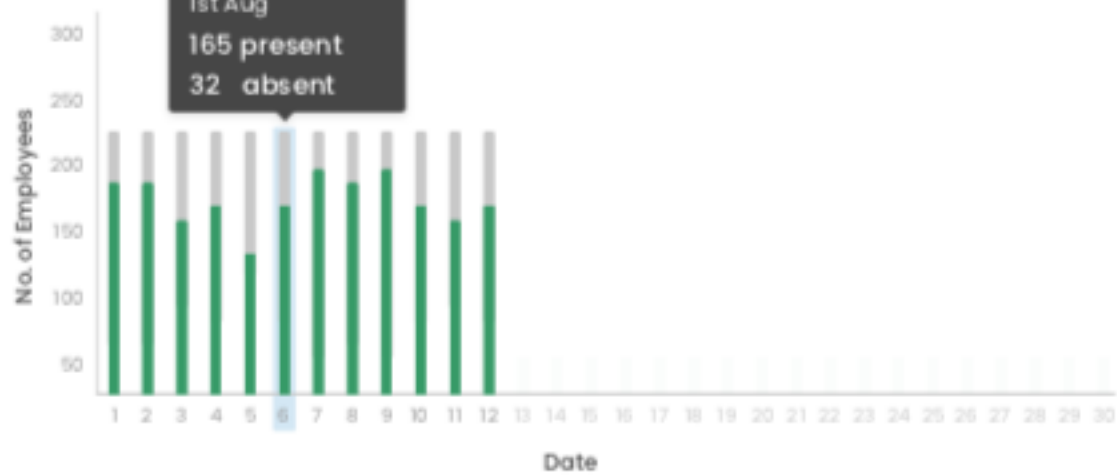
Date Range 1 Aug '18 📅 to 12 Aug '18 📅   **Days** Weeks Months

1st Aug
165 present
32 absent

No. of Employees
300
250
200
150
100
50

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Date

■ Present   ▨ Absent

Ave Employee Man Hours   All Employees ⌄

Date Range 1 Aug '18 📅 to 12 Aug '18 📅   **Days** Weeks Months

7.6 Hrs
1st Aug

No. of Hours
12
6
4
2

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
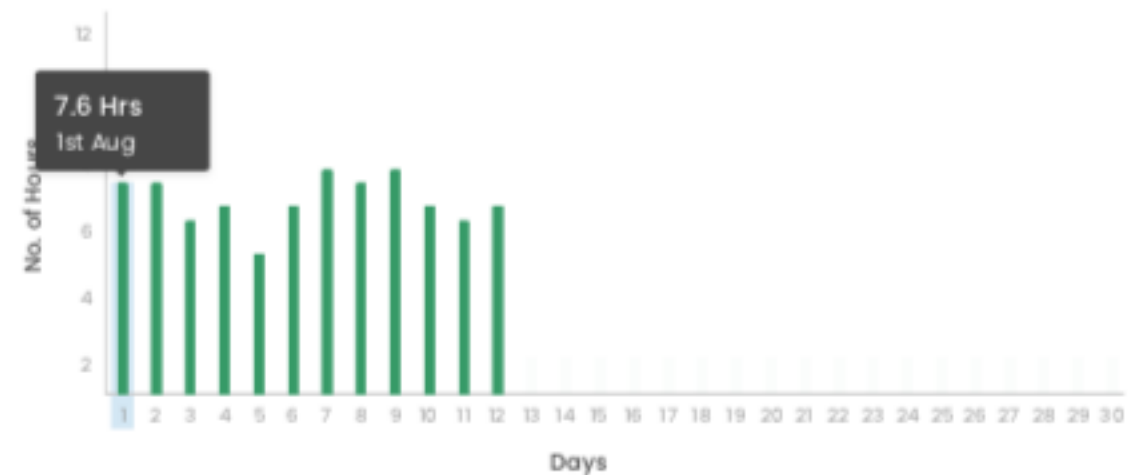
Days

■ Employees

Employee presence   All Zones ⌄   All Employees ⌄

Date Range 1 Aug '18 📅 to 12 Aug '18 📅   **Zone** Cluster

Space

Zone 1
Zone 2
Zone 3
Zone 4
Zone 5
Zone 6

Zone 3 | 1 Aug '18 ~ 12 Aug '18
56 Employees

20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

Number of assets
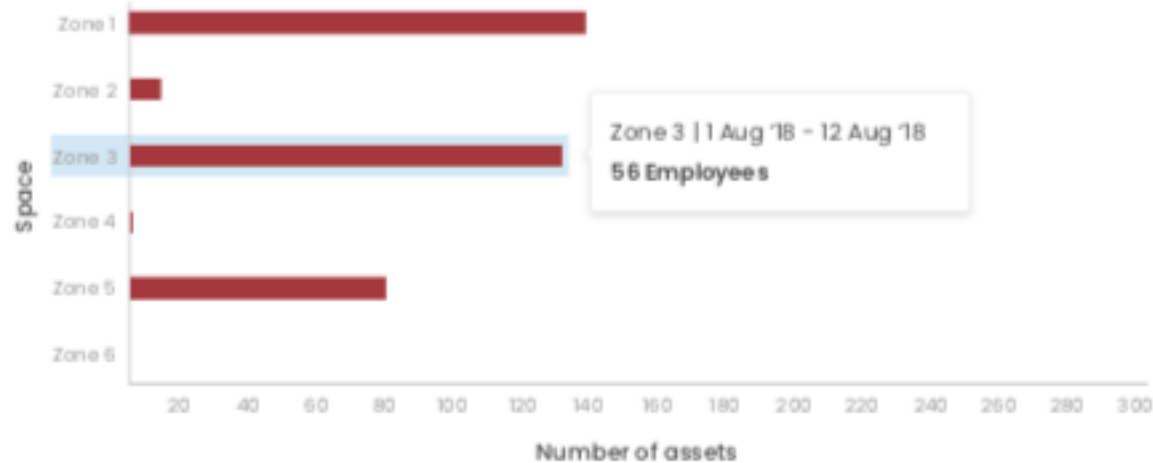
■ Employees

Ave Security Guard login time   All Employees ⌄

Date Range 1 Aug '18 📅 to 12 Aug '18 📅   **Days** Weeks Months

Time of the day
11:00
10:00
09:00
08:00
07:00
06:00

7:15 am
8th Aug

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Date

■ Login time

Syok

Syook

Intelligent Business Systems !

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Domlur Second Stage,
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