

# ASSETS IN ALL CORNERS OF YOUR ESTATE

All companies have assets that they need to keep tabs on. The assets that are considered meaningful for the business differ from company to company. In some companies the most important assets can be the **furniture** or IT equipment. In hospitals, the biggest need is to know location of your **life saving devices**, like defibrillators. These are indoor use cases which many technologies can serve but what happens when the environment is more demanding?

The technology needs to work also when, you are working:

1. in a cold storage, outdoors, warehouses, distribution centers
2. in environments where there are a lot of obstacles such as metal and concrete
3. where the asset density and scale grow up to hundreds of thousands or even millions and you still need to maintain a battery-operated infrastructure and asset tagging for data collection?

## EMPLOYEE EFFICIENCY THROUGH TIME MANAGEMENT

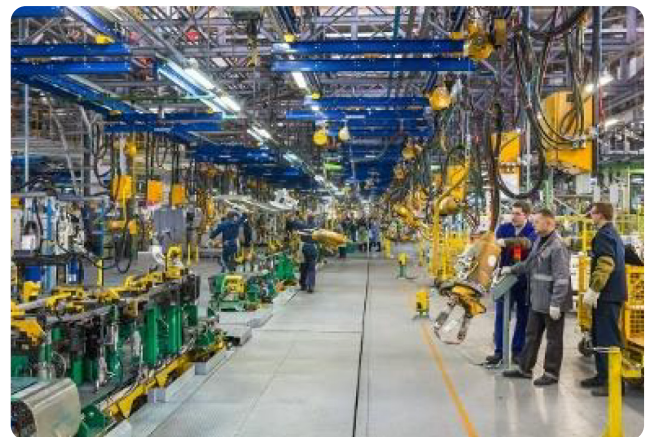
“Where is it”? Is a very common question among production workers. Often not only material, but tools and equipment are lost or misplaced, and this slows down production. In those cases, the employee’s time is not spent working- it’s spent searching. If every employee spends just a half an hour per day looking for the tool or part they need it can add up to thousands of hours wasted per year

Knowing the location of the assets speeds up production, keeps the employees working and the efficiency in the production higher. Gathering the data automatically ensures, that there will be no mistakes in signing the asset into or out of a location. The data of the location flows automatically via a mesh network to a backend system. This can then be visualized in a web based or a local client for any employee or foreman to keep tabs on.

“Did I get the right part”? Sometimes parts to a machine all look the same, apart for a millimeter difference here or there. If an employee accidentally chooses the wrong part, it can cause thousands of euros / dollars losses in production time, scrapped materials and products before

the mistake gets noticed. In addition, changing the wrong part to the new one and reconfiguring the machine will take its time. Explaining the delay to the customers waiting for their products can be painful.

**Wirepas Massive** is entirely bi-directional and this feature enables commands from the backend system to the tags on the assets, e.g. lighting an LED light on a tag. This can be used to guide employees to choose the right part or tool for a machine and ensuring that losses will be reduced for wrongly produced products.



## POP THE CORK ON THOSE BOTTLENECKS

Clearing bottlenecks requires data on where the actual bottlenecks are. Collecting history of the location data will expose flow of the whole production process and show where the bottlenecks really lie, with the help of simple graphs and analytics.

Visualization on:

1. seeing how the asset moves around the premises
2. seeing where it spends most of its time
3. seeing where there seems to be coagulation of assets and nothing moving and take that information to the planning phase helps make the production more efficient, especially when the gathered information is taken into account already at the planning phase.



With the data, alarms can be created. Whenever there is a coagulation or when an asset is e.g. in a wrong place, the system can alert the foremen. They can then check the situation and react accordingly, before the situation develops into a bigger issue.

When thinking about enormous car parks, for e.g. in customs or car dealerships, it might be difficult to find the right vehicle quickly or a free parking spot. In these cases, the location data is essential for efficient business. An alarm should be sounded in situations when a car is transferred to a wrong place. For example, a misplaced car just before releasing a car to a customer out from the car park can cause difficulties. Making sure the flow of cars to customers is fluent and no bottlenecks in the work occur, is just good business.

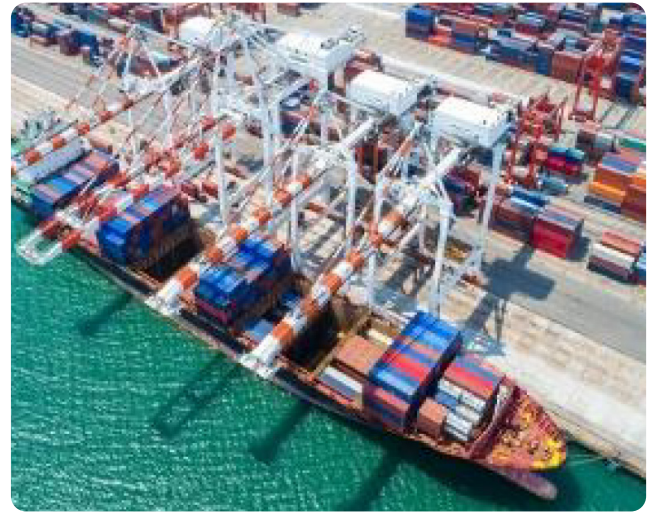


### WHEN THE NUMBERS OF ASSETS AMOUNT UP TO HIGH NUMBERS

The system must work even when the number of assets scale up to thousands, tens of thousands, hundreds of thousands or even millions. Massive Internet of Things is connecting a huge number of assets in one network, without the need for extra cabling or power sources. Having everything battery operated and the ability to grow the network as the system evolves, demands for a flexible mesh. **Wirepas Massive** can also cope with high density of assets in a small area.

Pivotal in maintaining a sustainable process in a long run requires:

1. Seeing all the assets on a map
2. Being able to zoom into them on a map view
3. Being able to search for an asset by their assigned ID no matter the amount or density of assets.



### AUTOMATED DATA COLLECTION RELIEVES YOU OF PAIN

Whether you need to ensure,

1. that your employees use their time in productive work instead of searching for products, parts, tools, equipment, furniture or material when they can clearly see where the assets are
2. that the products coming out of the production line are of pristine condition and quality
3. that there are no more bottlenecks in the production or the process
4. that the foremen and employees receive alarms if assets are not where they are not supposed to be make sure that the system you use is reliable and will withstand the requirements you set for it.

Automation will reduce human errors, time spent in unproductive tasks and can improve your processes saving euros and dollars which can then be better spent in further investments to improve your business.

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#### WIREFAS

We're changing the face of IoT. To set a new standard. To skip the bullshit. To get infinitely scalable connectivity. Gentle on your wallet and way better than cellular 5G. In a network that never fails. Without middlemen or infrastructure. Totally self-managing. Tailored for commercial and industrial applications. Just more than you need. For less. We give you very very good IoT.