

RFID JOURNAL LIVE!

MAY 9-11, 2023 | ORLANDO, FLORIDA



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WIPELOT IIoT & RTLS



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ABOUT WIPELOT

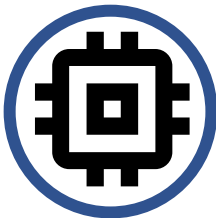
Key Experiences



RTLS

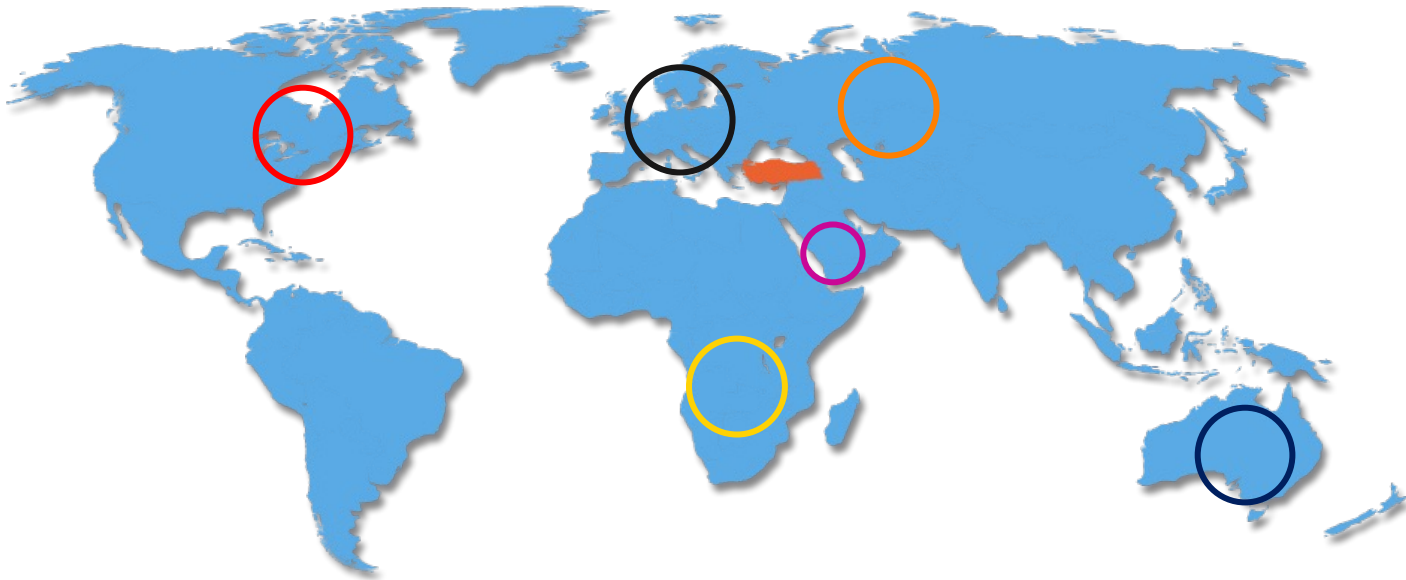


IIoT



Active RFID

UWB



B/S/H/  L'ORÉAL®   Unilever

  Microsoft Azure



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VESTEL

Best Manufacturing RFID or IoT Implementation

Let's find out how **Vestel** uses technology
to reduce unplanned downtimes and assess costs, productivity,
and efficiencies using a real-time equipment tracking approach in this talk.



VESTEL

Improved Efficiency,
Reduced Workplace Accidents
with UWB-Based Active RFID



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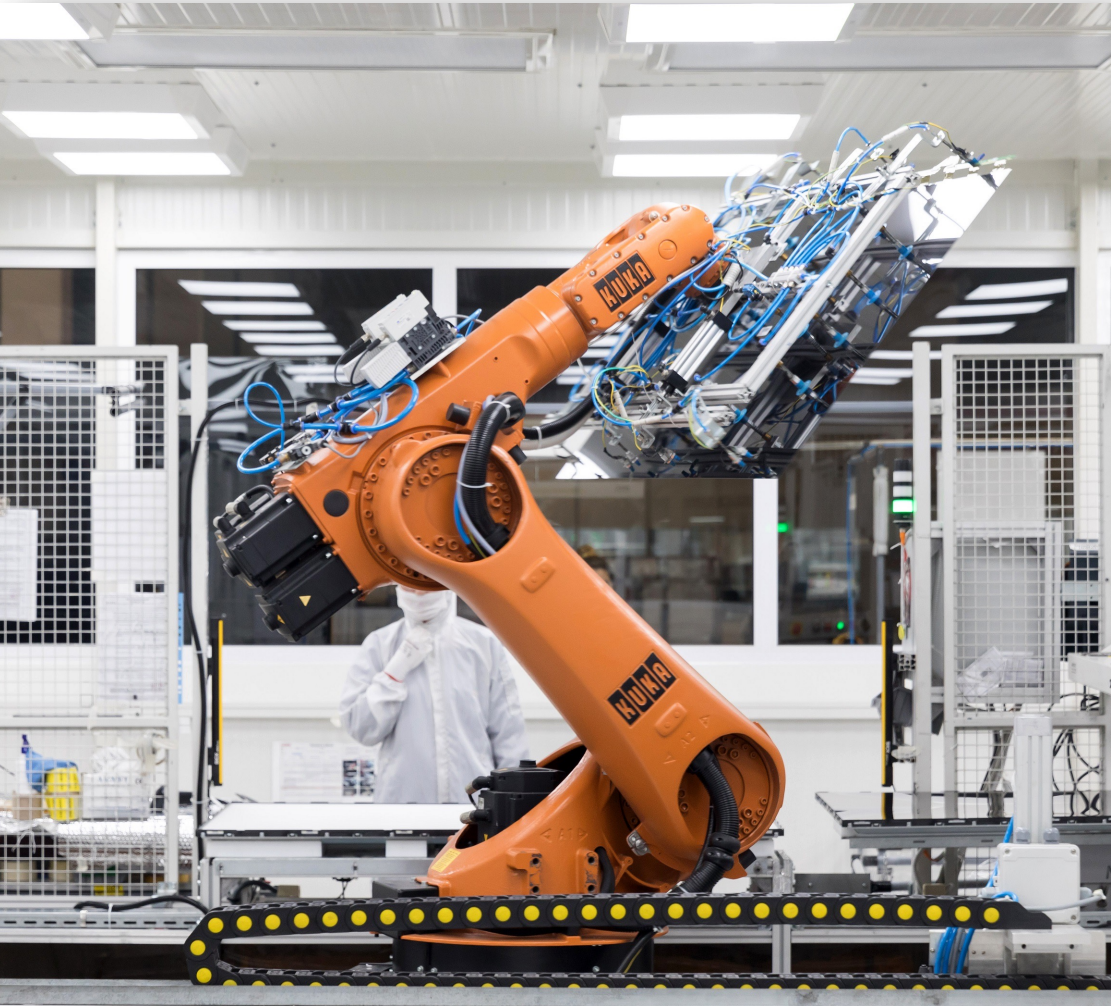
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TAKE A PEEK AT VESTEL



Vestel is one of the top two TV and one of the top five home appliances manufacturers in the European market.

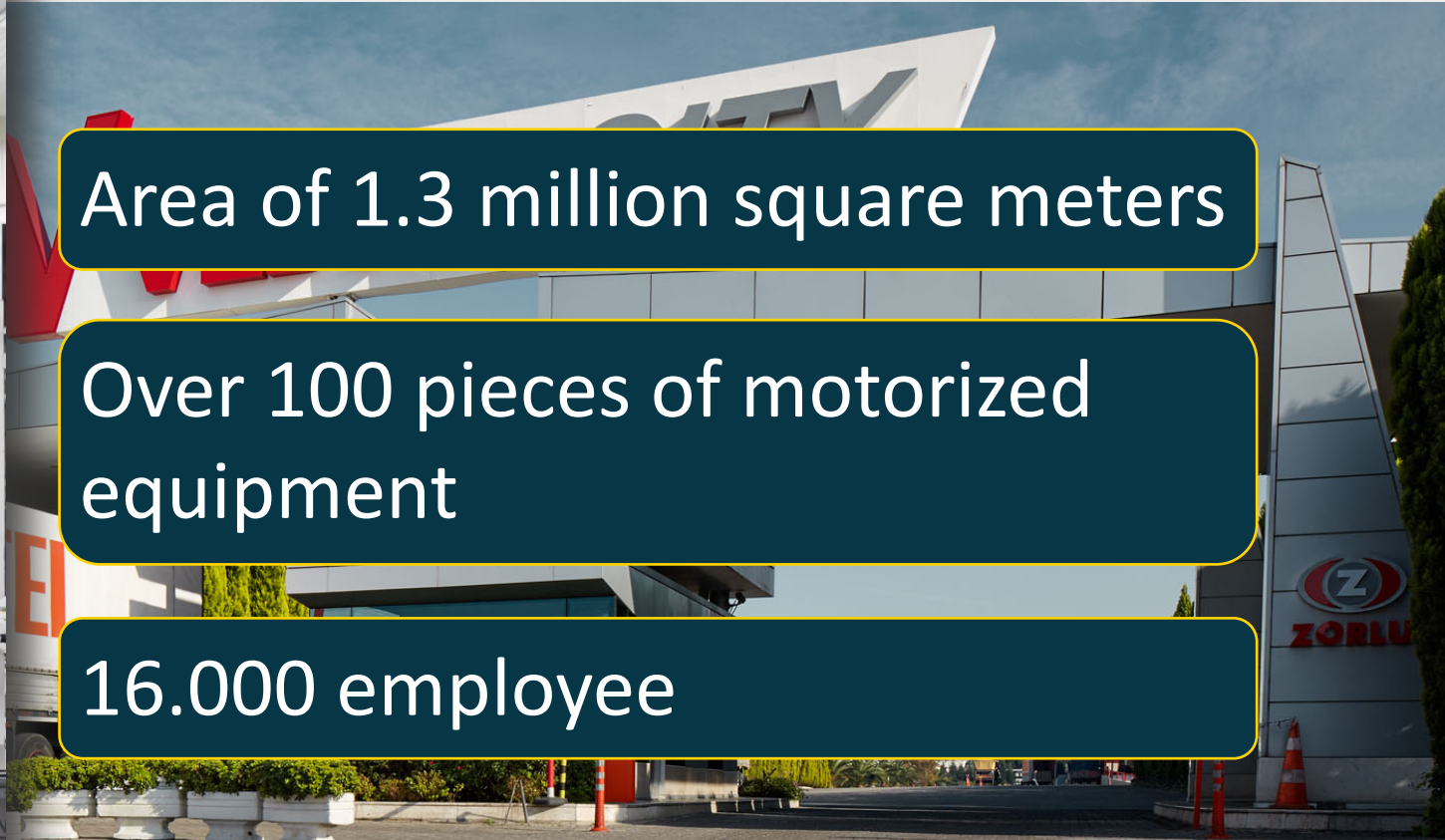
VESTEL CITY is one of the most complex manufacturing centers in Turkiye.



Area of 1.3 million square meters

Over 100 pieces of motorized equipment

16.000 employee



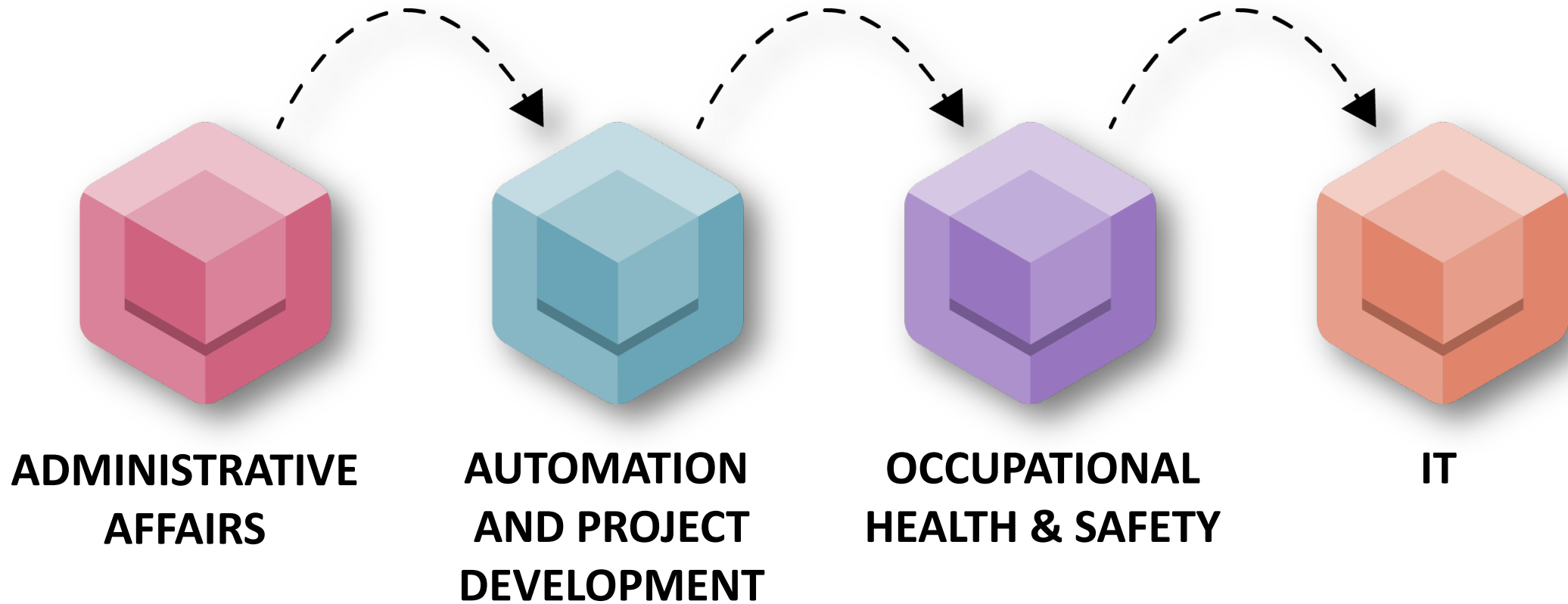
VESTEL

((w)) wipelot

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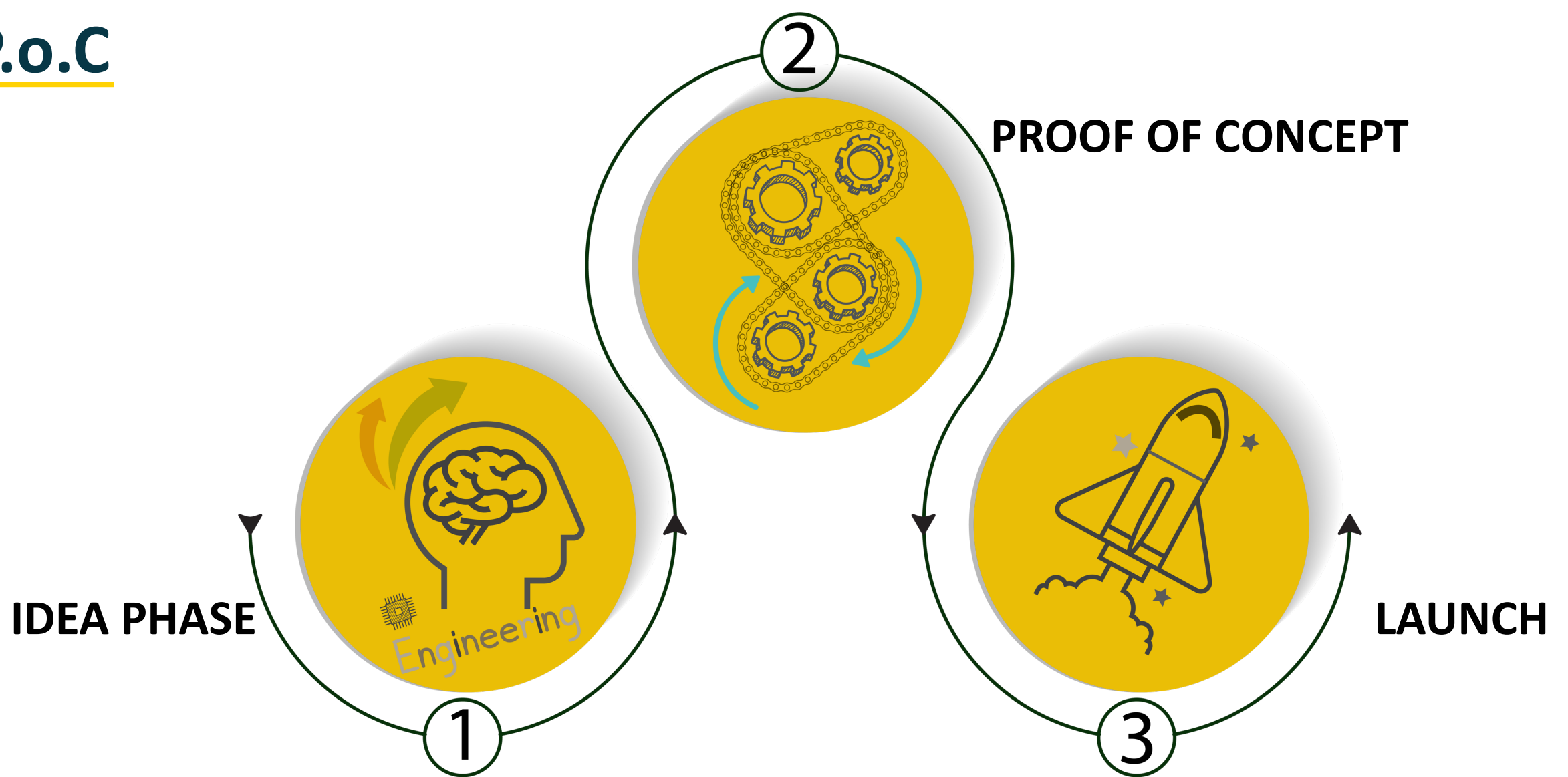
PRELIMINARY



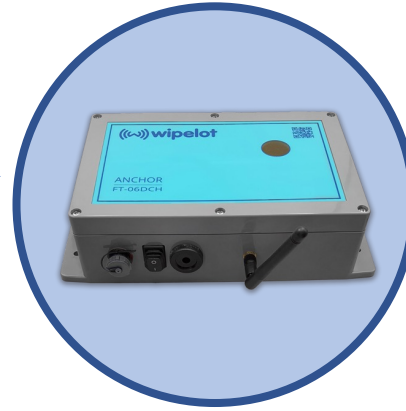
THE MAIN GOAL

Measure and **reduce costs while increasing productivity and efficiency** through real-time tracking of equipment

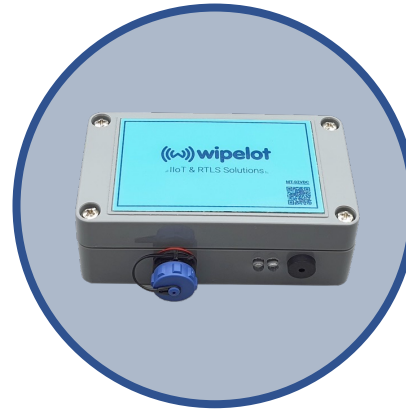




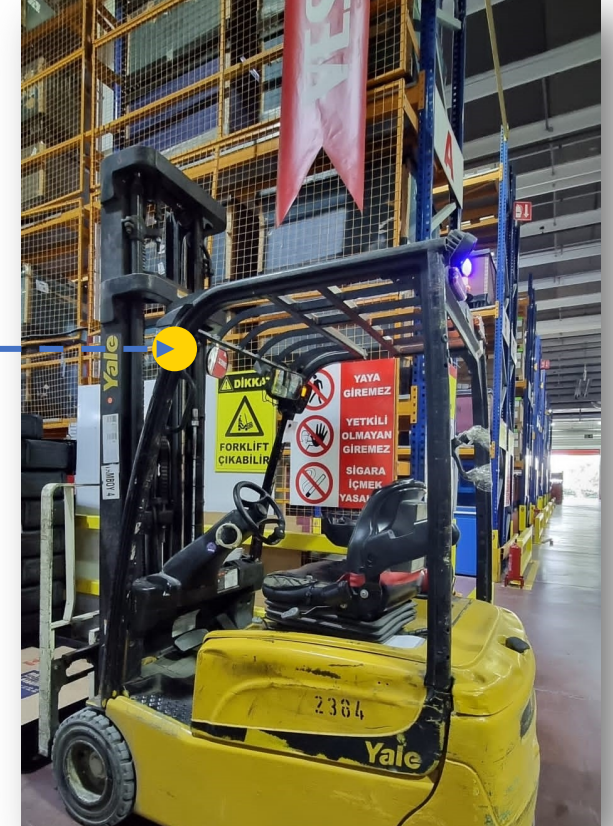
DEPLOYMENT



UWB ANCHOR

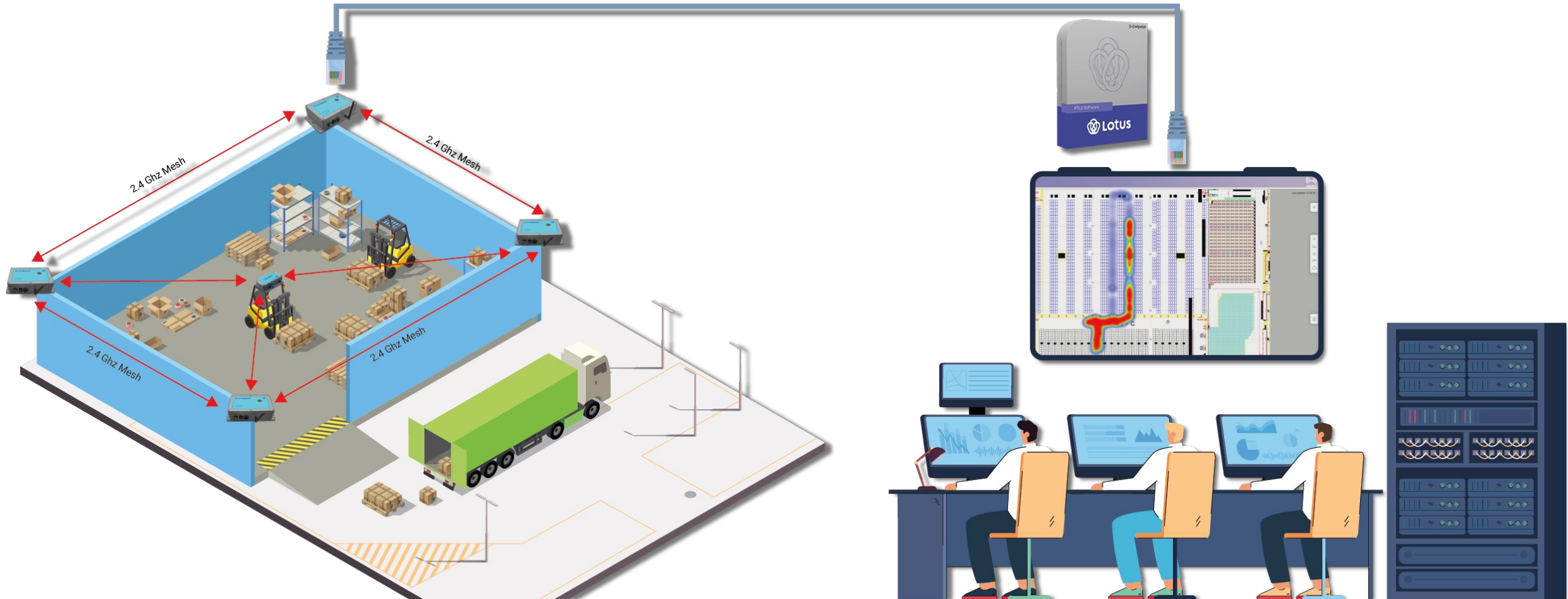


UWB TAG



THE SYSTEM LOGIC

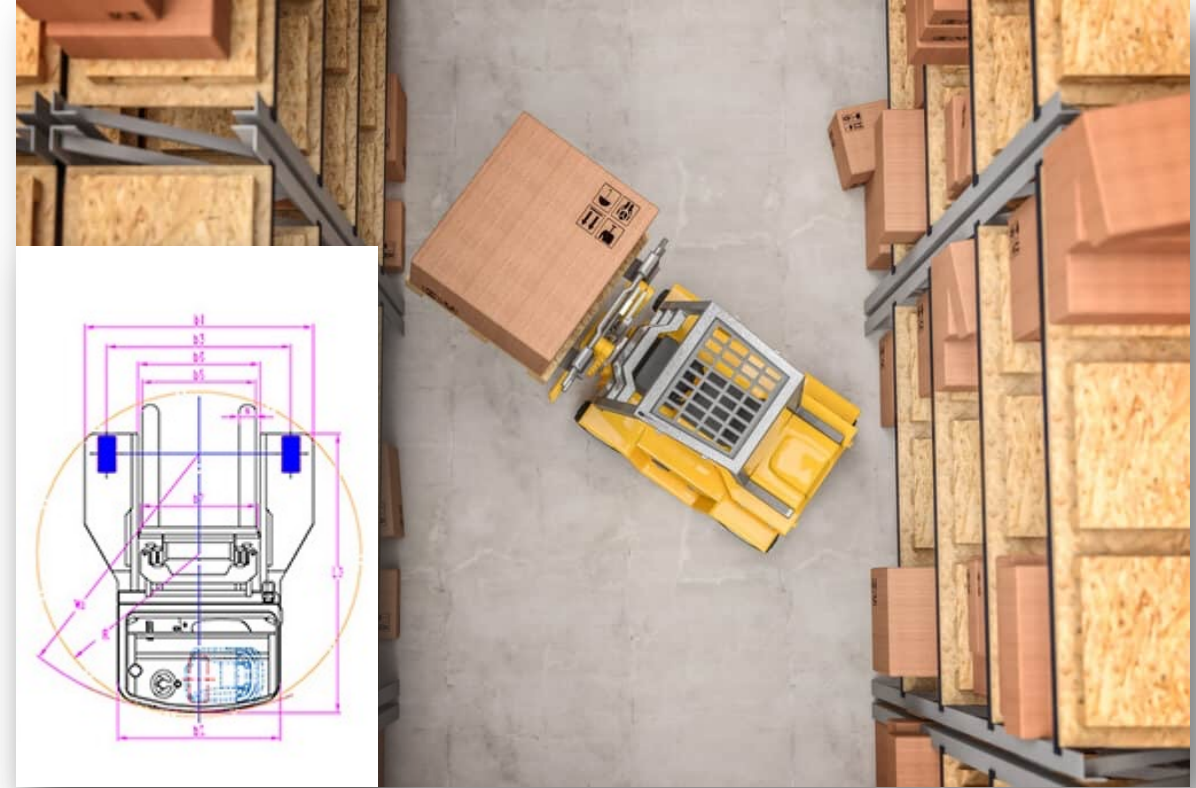
(ETHERNET)



CHALLENGES

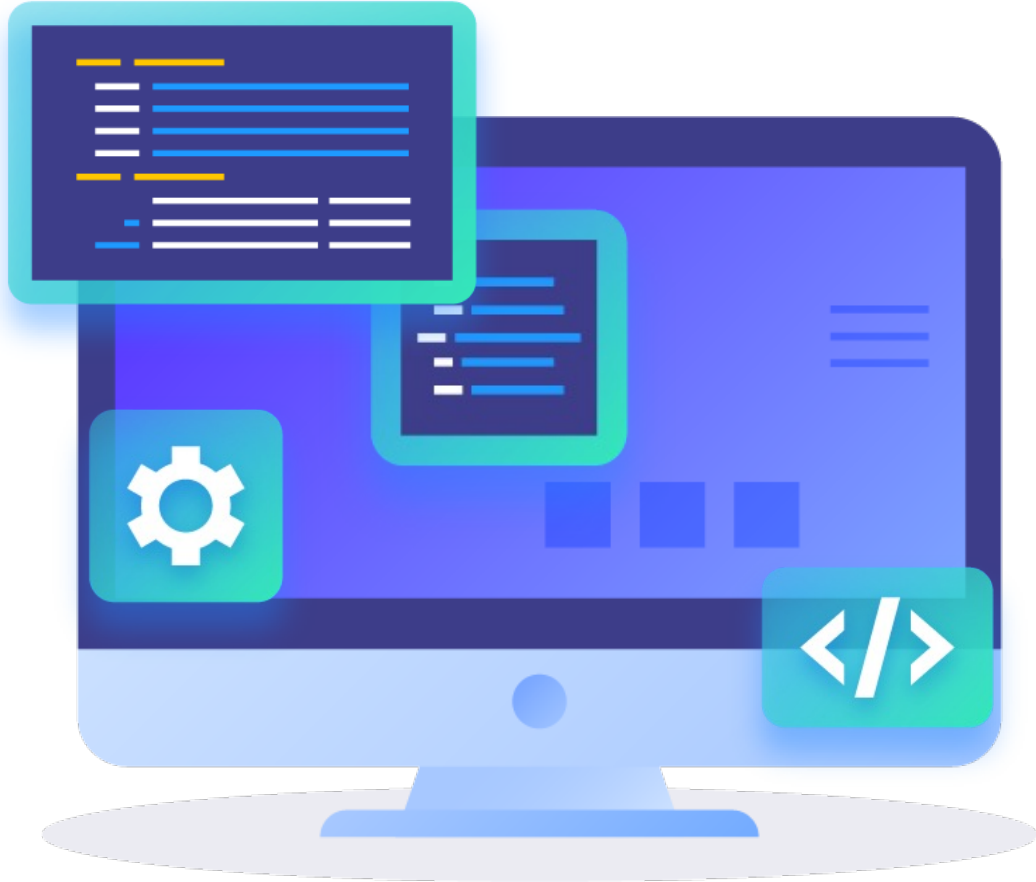


PHYSICAL OBSTACLES



SHORT MANEUVERS

ADDITIONAL DEVELOPMENTS



- **Detection of Equipment Downtime**
- **Reasons of Equipment Downtime**

FINE TUNING



Specifying the equipment's downtime

Determining the threshold values

Updating the algorithm properly

CONCLUSION

Shift start
losses were
decreased by
67%

Saved a
workforce of
3,1%

Energy
consumption was
decreased by
3,1%

Occupational
accidents were
decreased by
15%

CONCLUSION

During the renewal of equipment rentals, the appropriate type and quantity of equipment were rented based on the requirements and surplus equipment data.

Unnecessary equipment density was decreased as a result of the planning.

The UWB-based real-time location system achieves 50 cm accuracy.

WHAT IS NEXT?



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Make a difference with location

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THANK YOU

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