

#VISIONZEROWORKPLACE

# A new chapter in industrial safety

INNOVATION | SAFETY | EFFICIENCY



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#VISIONZEROWORKPLACE





HALOTECH is born from a simple  
but powerful conviction:

**we can save lives  
and reduce work  
related accidents.**

**We have  
a mission.**

We want to take our innovation and safety  
expertise beyond city streets and into  
roads, factories, heights, mines, oil fields  
and other sectors.

Our purpose → Developing smart solutions that can save lives by preventing the accidents and improve the safety and health of the industrial workers.



# Our Objectives

## Innovation

Every company faces change in demographics, climate, and workplace dynamics that transform worker health and safety. Yesterday's solutions may not work today or in the future.

At HALOTECH, we lead in workplace safety innovation with advanced digital solutions, keeping you ahead with the latest in Health & Safety technology for workforce.

## Prepare

With our HALOTECH AI platform, powered by Big Data and Artificial Intelligence, we prepare businesses with real-time insights into workplace accidents, helping safeguard your employees' health and ensuring everyone returns home safe and sound.

## Prevention

HALOTECH shares the ambitious vision of 'zero' workplace mortality. Our solutions are designed to identify and mitigate risks before they become threats, fostering a culture of safety in every corner of your company. With our data-driven technologies, we prevent accidents and safeguard the health of your employees, ensuring that everyone returns home safe and sound.

# Our Solution Ecosystem

**Customers**

**System Integrators**  
System Integration Services  
+ Post Sales Support

**Telecom Operators**  
Connectivity + Service  
Management Platform

**HALOTECH**  
HALOTECH AI Platform  
+ Smart Devices



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# SMART DEVICES

# Use Cases



## Physiological



## Environmental



## Accidents



## Data Governance

### Monitoring the health of workers

Integrated body temperature and other sensors can monitor physiological indicators and generate alerts.

### Environmental monitoring of workers

Integrated sensors can monitor air quality, air temperature, humidity, pressure and other conditions identifying the suitability of the environment for work.

### SOS signs for workers





In the event of an emergency, fall or accident, it can send SOS signals, including the worker's location, to a centralized control center.

### Data governance

The enterprise can perform data management and governance in real time to take immediate actions and define security procedures for the future.



# HALOTECH Smart Connected Devices

HALO	I	HALO	II	HALO	III	HALO	IV
				<p>Brazalete</p> 		<p>en I+D</p> 	
<p>Residue Collection &amp; Urban Mobility</p> <p>An intelligent device integrated into a certified helmet for mobility and waste collection. Integrated with the HALOTECH AI platform.</p>		<p>Industry, Mining, Oil &amp; Gas</p> <p>An intelligent device that can be connected to any standard EN 397 industrial helmet. Integrated with the HALOTECH AI platform.</p>		<p>Industry, Conservation and Urban Services</p> <p>For maintenance services and other urban services where a helmet is not required. Integrated with the HALOTECH AI platform.</p>		<p>Industry, Mining, Oil &amp; Gas</p> <p>Proactive alerts that inform both the user and the control center about increased workplace risks due to fatigue. Integrated with the HALOTECH AI platform.</p>	

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# OUR AI PLATFORM



# Value proposition

HALOTECH offers a wide range of benefits that align with your safety, efficiency and legal compliance objectives.



Regulatory  
Compliance



Improving  
Operator  
Safety



Data  
Analysis and  
Reporting



Operations  
Optimization



Promotion of  
Safety  
Culture

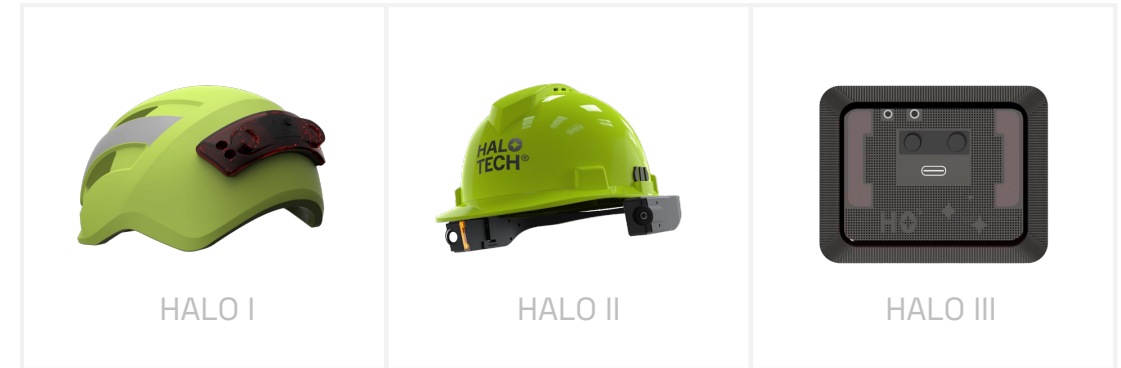


Cost  
Reduction

# HALOTECH Platform

SaaS 2.0 (Safety as a Service)

- ✓ Operations Optimization
- ✓ Cost Reduction
- ✓ Data Analysis and Reporting
- ✓ Promotion of Safety Culture



3rd Party  
System



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# FUNCTIONALITIES /ROADMAP

# Use Cases



## Physiological

### Monitoring the health of workers

- Monitor integrated body temperature.
- Monitor integrated thermal stress.



## Environment

### Environmental monitoring of workers

- Integrated sensors can monitor air quality, detecting pollution, ambient temperature, humidity and pressure to detect heat stroke.
- Measuring worker movement speed with GPS. Integration with WAZE to alert drivers in case of road maintenance.



## Accidents

### Alerts for workers

- In case of emergency, fall or accident, it can send SOS signals, including the worker's location, to a control center. Integrated light and acoustic alerts on the device to improve visibility and awareness of the environment, reducing the likelihood of accident.
- Presence sensor can always report compliance with the law on helmet use by workers.



## Data Governance

### Real time monitoring of workers

- Real-time data management and governance to take immediate action and define security procedures for the future.

# Roadmap

## Connectivity & GPS

4G LTE for Private and Public Networks

Bluetooth

## Environment

Object Collision Detection

Temperature of frontal objects

## Telemetry

Visualization of telemetry data in real time

Route Tracking with GPS

Data Filtering

Geofencing

## Accidents

Torch Light

Back Light

Acoustic Alerts

## Alarm Management

Alerts Control Panel

Communication of platform with the device

## Configuration Management

Management of devices, operators

3rd party integration

## Reporting & Dashboard

Business Intelligence Dashboard

Report Management

Integration with ChatGPT

## Certifications

IP 5X/6X

ATEX

## Physiological

Mental Stress Detection



# Geo Location of all workers





# Details of Worker

Menu icon

Home icon

Group icon

Worker icon

Map icon

Document icon

Share icon

Settings icon

Notification icon

Operators

Total: 26

Group filters

All

PILOTO ALCOBENDAS

Acciona Test Group

ACCIONA ALCOBENDAS

Helmet filters

See All

Worn

Not Worn

Search by name

PILOTO ALCOBENDAS

TEST Brazaleta 171

TEST Brazaleta 141

TEST Brazaleta 154

Update

Last update: 17:24:34

Environmental Operator

TEST Brazaleta 141

Group

Test Group

55%

Mon 01/07, 16:59

ACRUX 493273

Total operators: 26

Helmet worn: 0

Helmet not worn: 0

Helmet not assigned: 0

Offline: 26

Last position

Poligono Romica Calle 5, 13, 02007 Albacete, Spain

Mon 01/07, 16:50

Altitude

0.0 m

Speed

0.0 Km/h

Last GPS tracking

08:36 0 m 0 m 4

Poligono Romica Calle 5, 13, 02007 Albacete, Spain

Mon 01/07, 08:14

Poligono Romica Calle 5, 13, 02007 Albacete, Spain

Mon 01/07, 16:50

Device activity

Google

Keyboard shortcuts

Map Data

Terms

Report a map error

Google

Keyboard shortcuts

Map Data

Terms

Report a map error

# Telemetry Data



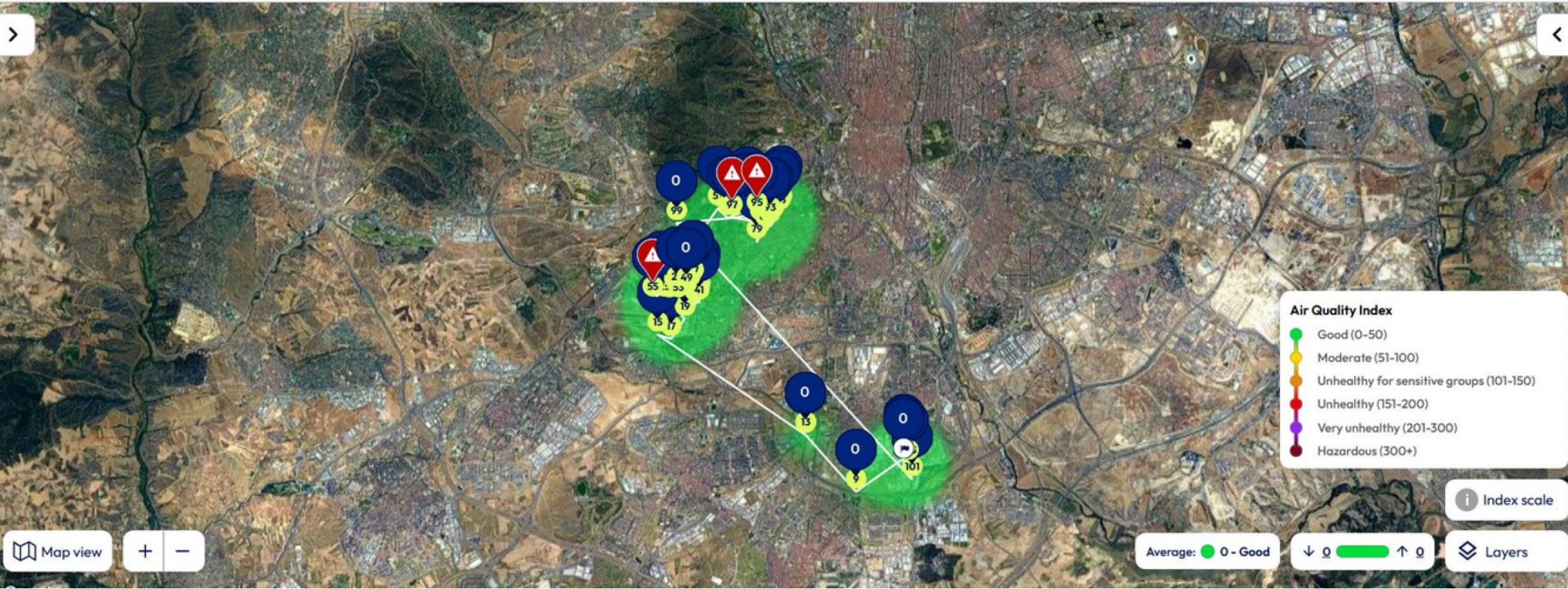
# Data: Thermal Stress





# Data: Air Quality Index

🕒 05:48 ↗ 696.6 m ↘ 593.6 m 🚦 5 🚦 1





# Tracking (GPS)

M

HaloTech Smart Operator 13

Group: Sales Team

HALO-I Urban Industrial Helmet

Serial n°: 8934072300001282168 ICCID: 8934072300001282168

Last update: 18/03/2024

Day: 21/03/2024

Update

×

02:10

752 m

637.5 m

▲

▼

SOS Open: 2

Departure Point

●

Polígono Romica Calle 5, 13, 02007 Albacete, España

(Thu 21/03/2024, 08:43)

Arrival Point

●

Polígono Romica Calle 5, 17, 02007 Albacete, España

(Thu 21/03/2024, 10:53)

List of registered points

1

02:32:32

2

02:32:32

>

▲

02:32:32

4

02:32:32

5

02:32:32

6

02:32:32

7

02:32:32

8

02:32:32

# Alarms Dashboard

SOS Event Console

Last update: 11:10:21

11/06/2024, 00:00 - 12/06/2024, 23:59

Update

Total: 9

Items per page: 10 1 - 10 of 9 < > >>

Operator	Group	Serial number	GPS	Time	Event	Event status
<a href="#">HaloTech Operator 22</a>	<a href="#">Sales Team</a>	0000022	Poligono Romica Calle 5, 15, 02007 Albacete, Spain (39.064563, -1.838997, 710.1 m, 1.2 Km/h)	12/06/2024, 10:19:18	FALL DOWN	Open
<a href="#">HaloTech Operator 80</a>	<a href="#">Sales Team</a>	0000080	Position not present	12/06/2024, 09:49:40	SOS BTN	Open
<a href="#">HaloTech Operator 22</a>	<a href="#">Sales Team</a>	0000022	Poligono Romica Calle 5, 15, 02007 Albacete, Spain (39.064668, -1.838862, 683.2 m, 2.5 Km/h)	11/06/2024, 16:11:02	FALL DOWN	Open
<a href="#">HaloTech Operator 22</a>	<a href="#">Sales Team</a>	0000022	Poligono Romica Calle 5, 17, 02007 Albacete, Spain (39.065065, -1.838842, 696.5 m)	11/06/2024, 16:05:48	SOS BTN	Acknowledge
<a href="#">HaloTech Operator 24</a>	<a href="#">Sales Team</a>	0000024	Position not present	11/06/2024, 15:35:27	SOS BTN	Open
<a href="#">HaloTech Operator 22</a>	<a href="#">Sales Team</a>	0000022	Poligono Romica Calle 5, 17, 02007 Albacete, Spain (39.064698, -1.83912, 694.6 m, 1.2 Km/h)	11/06/2024, 12:08:00	FALL DOWN	Open
<a href="#">HaloTech Operator 21</a>	<a href="#">Sales Team</a>	0000021	C. de Rafael Bergamín, 3, Cdad. Lineal, 28043 Madrid, Spain (40.448988, -3.66193, 674.3 m, 60.8 Km/h)	11/06/2024, 11:46:33	SOS BTN	Open
<a href="#">HaloTech Operator 21</a>	<a href="#">Sales Team</a>	0000021	C8VQ+QP Madrid, Spain (40.44445, -3.66069, 673.8 m, 59.3 Km/h)	11/06/2024, 11:40:09	SOS BTN	Open
<a href="#">HaloTech Operator 23</a>	<a href="#">Sales Team</a>	0000023	Poligono Romica Calle 5, 13, 02007 Albacete, Spain (39.065003, -1.838598, 676.4 m, 1.1 Km/h)	11/06/2024, 09:19:00	FALL DOWN	Open

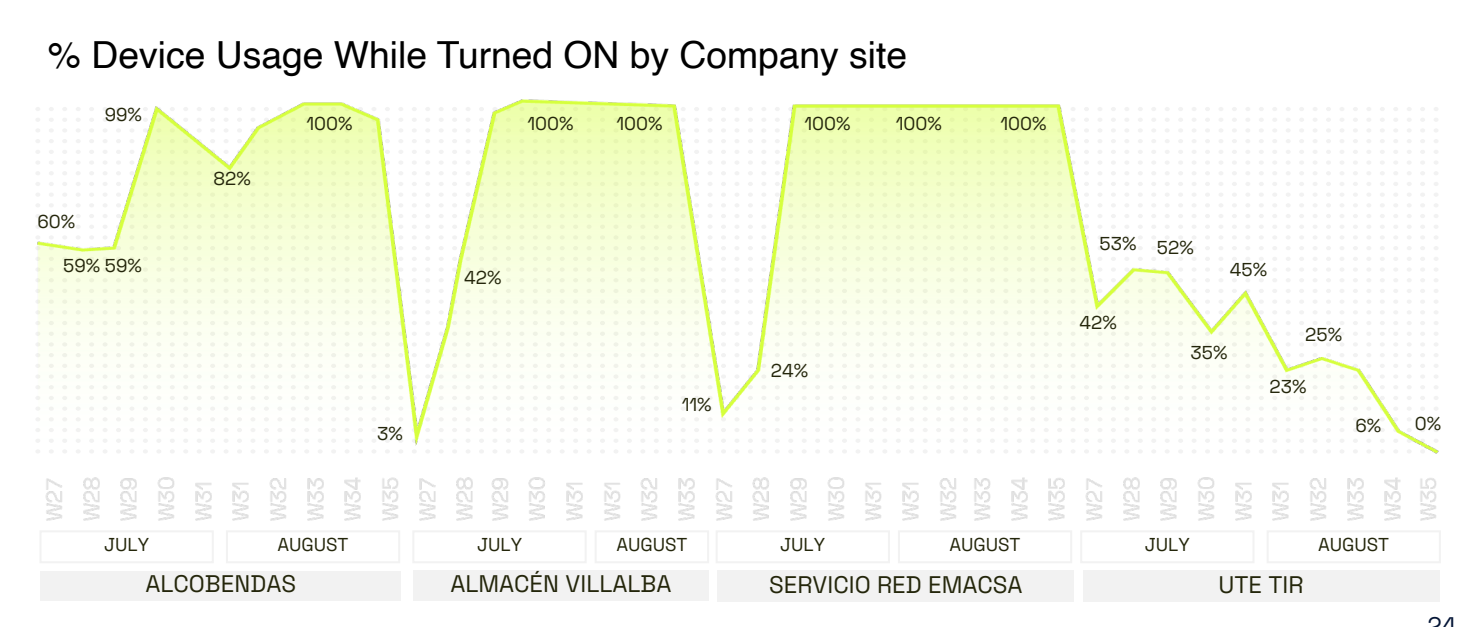
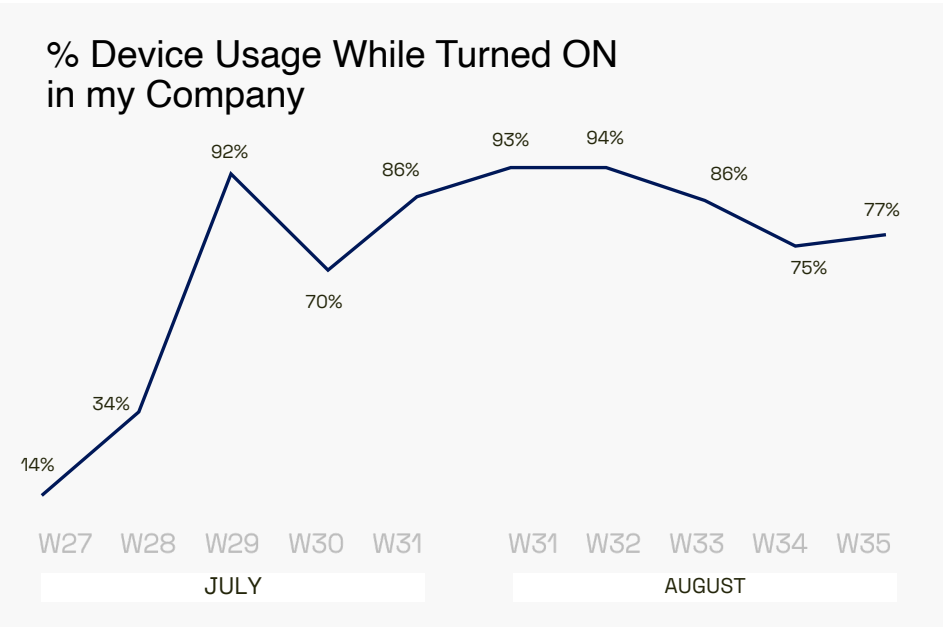
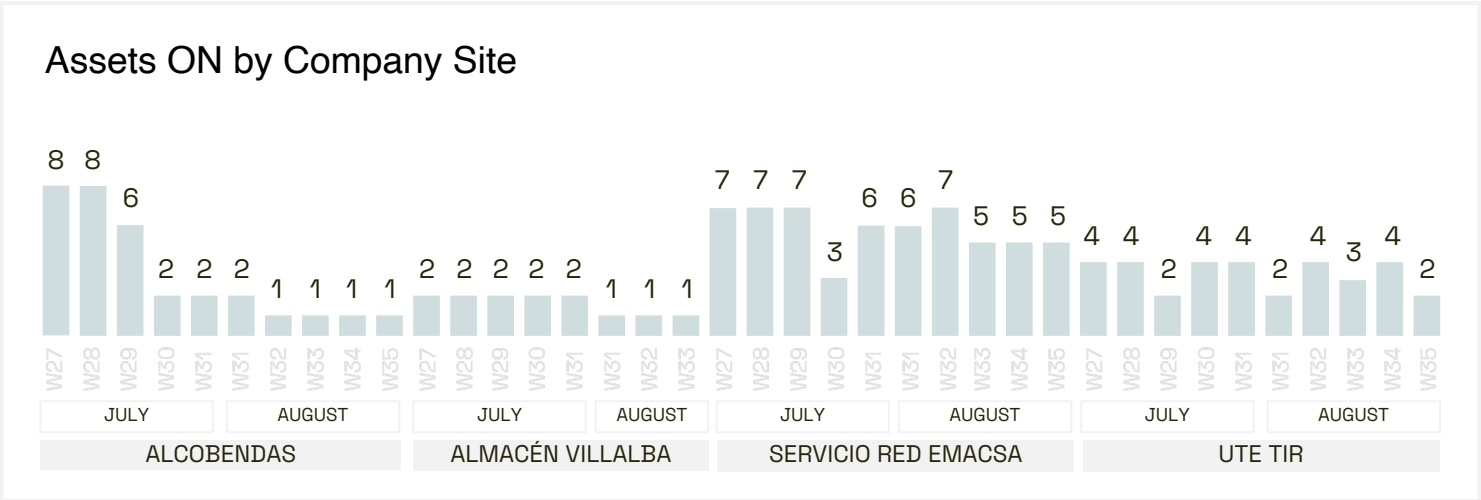
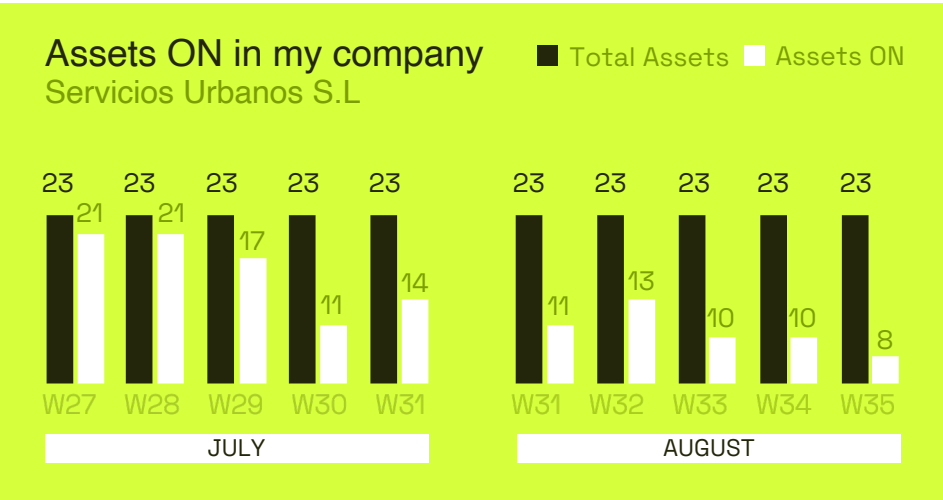
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# BUSINESS INTELLIGENCE



# Use of the Safety Device





# Regulatory Compliance

## Ranking Asset usage by Employee

EMPLOYEE	% USAGE WHILE ASSET ON	HOURS ASSET ON	HOURS OF ASSET USAGE WHILE TURNED ON	NUMBER OF DAYS THE ASSET WAS USED
Operario #	97%	96	94	39
Brazalete #	89%	300	263	33
Brazalete #	89%	60	55	5
Brazalete #	84%	243	210	30
Operario #	80%	13	11	6
Operario #	78%	14	11	11
Brazalete #	77%	191	173	27
Brazalete #	76%	278	232	26
Operario#	75%	15	12	7
Brazalete #	66%	186	146	21
Brazalete #	61%	131	93	19
Operario #	58%	15	9	10
Operario #	58%	7	4	3
Operario #	55%	88	51	19
Brazalete #	51%	180	135	21
Brazalete #	50%	119	70	13
Brazalete #	44%	153	106	21
Operario #	42%	121	49	20
Operario #	33%	164	53	31
Operario #	31%	21	5	6
Operario #	19%	24	3	9
Operario #	12%	187	19	30

Top 3 Employees  
with Highest % Asset Usage

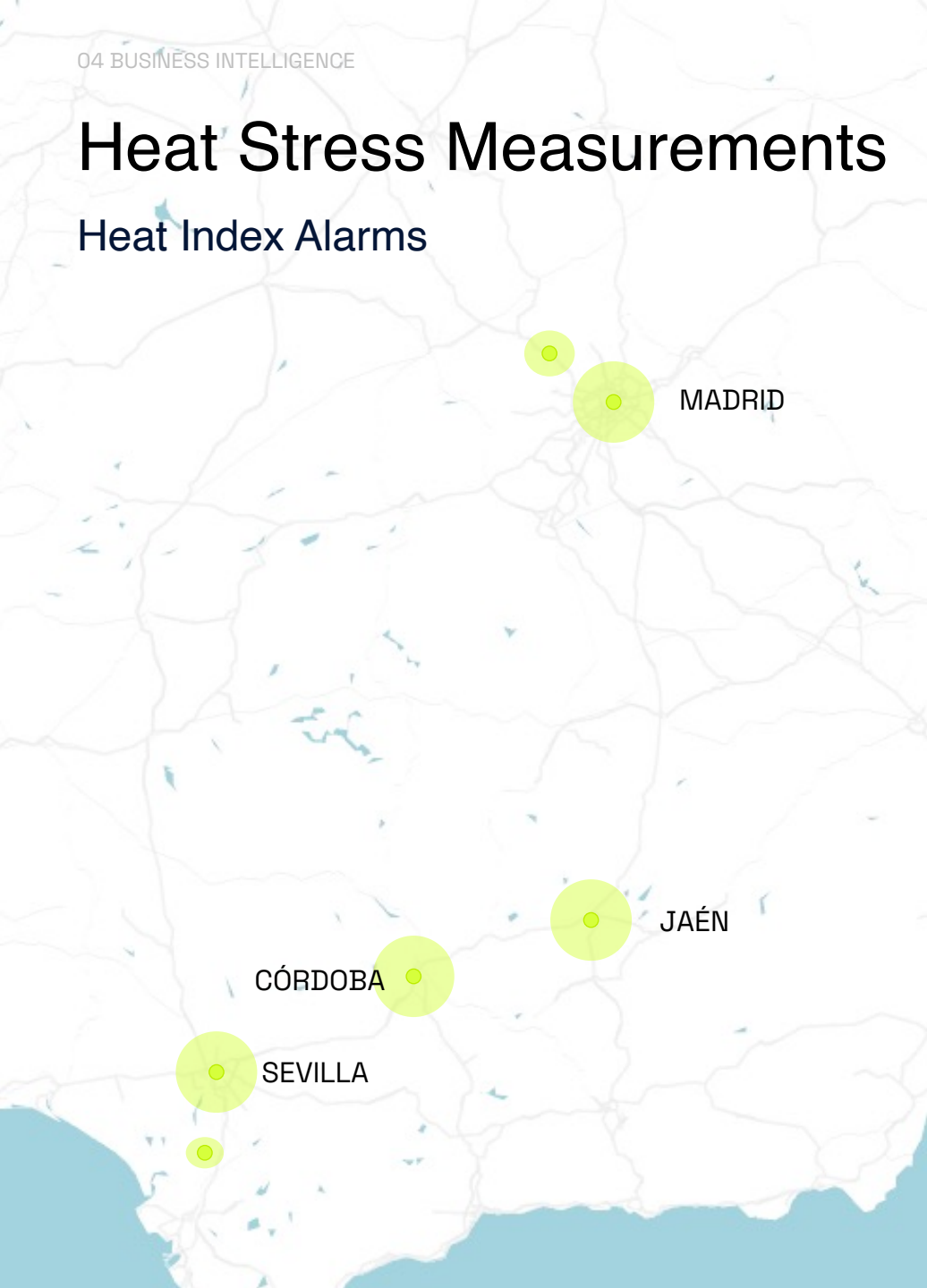


Top 3 Employees  
with Lowest % Asset Usage

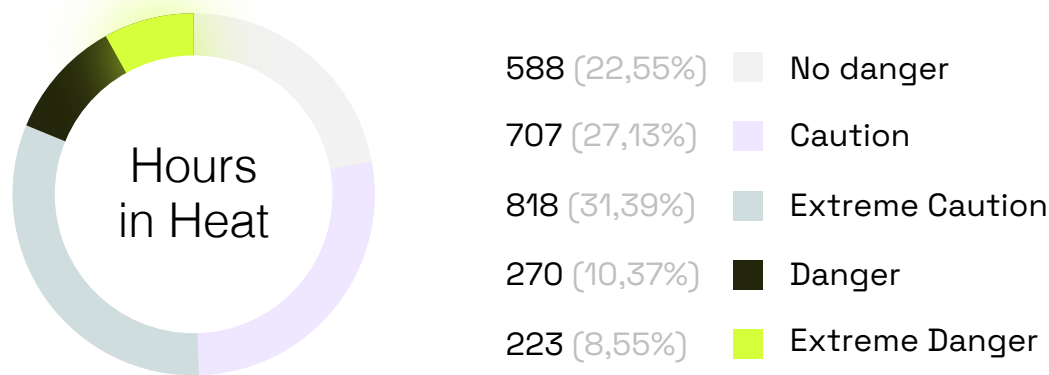


# Heat Stress Measurements

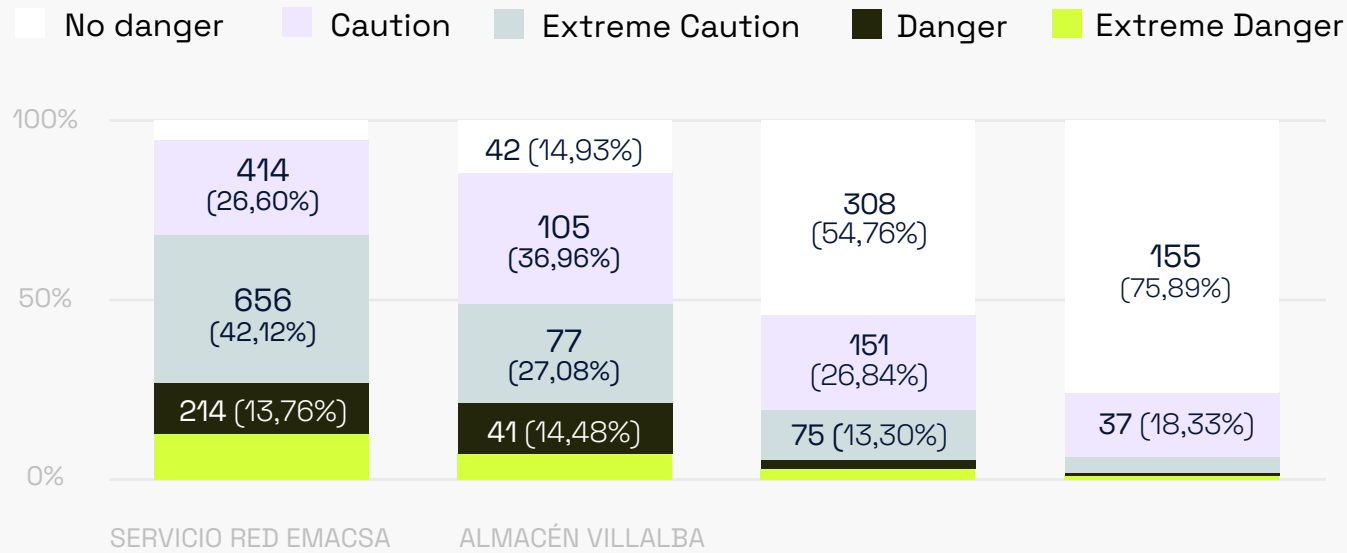
## Heat Index Alarms



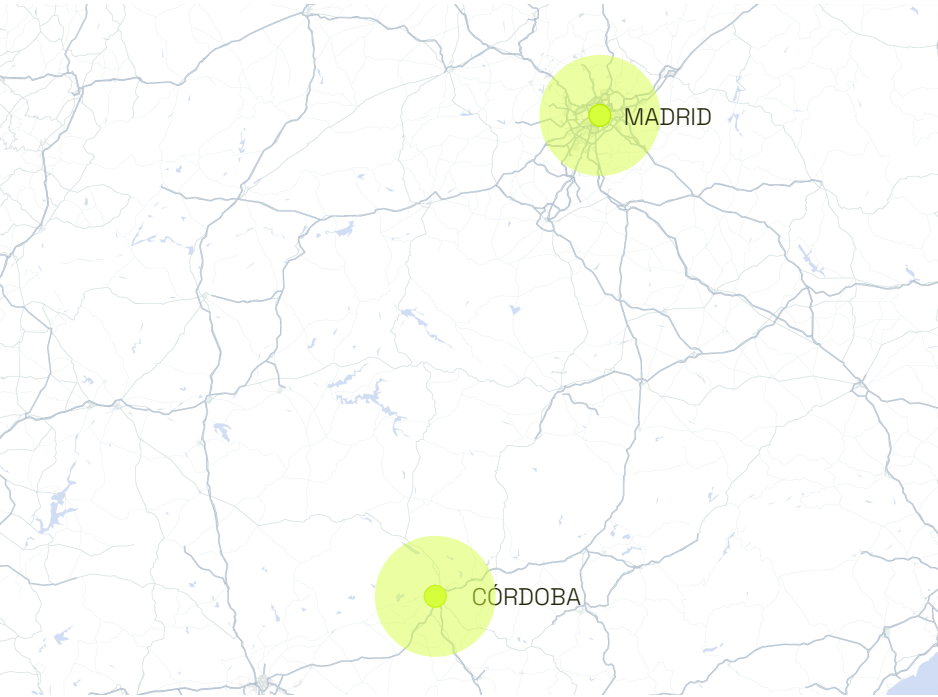
Distribution of Hours in Heat Index Zones by Company



Distribution of Hours in Heat Index Zones by Company Site



# SOS Alarms



SOS Botton pressed  
48

SOS Botton pressed by Company Site

26

SERVICIO RED EMACSA

9

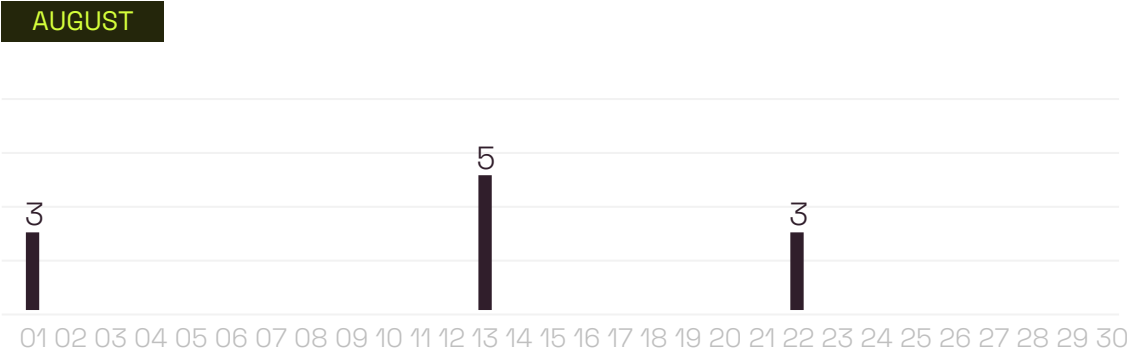
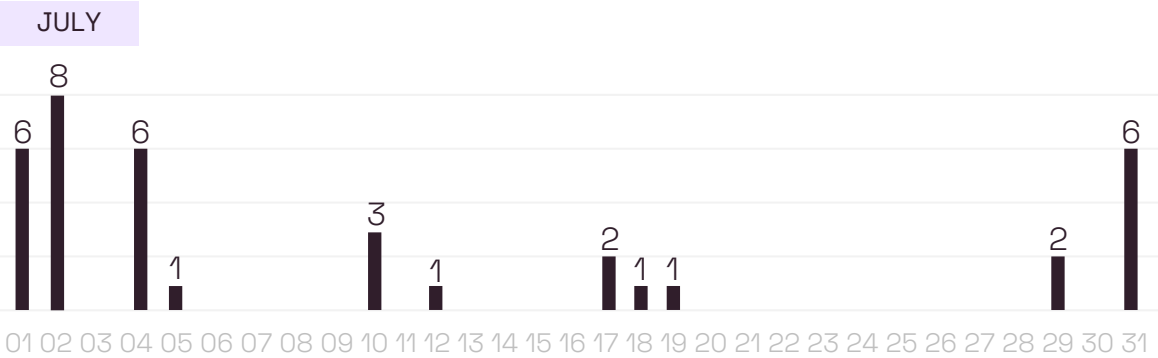
ALMACÉN VILLALBA

8

5

DATE	COMPANY SITE	EMPLOYEE	GPS	HEAT INDEX	SPEED
22/08/2024				30,00	
13/08/2024	Servicio Red Emacsa	Brazalete 171	37.910992,-4.712778	35,00	0,00
13/08/2024	Servicio Red Emacsa	Brazalete 171	37.91336,-4.80386	36,00	0,00
13/08/2024	Servicio Red Emacsa	Brazalete 171	37.91341,-4.803938	35,00	0,00
13/08/2024	Servicio Red Emacsa	Brazalete 171	37.914822,-4.804968	36,00	0,00
01/08/2024	Servicio Red Emacsa	Brazalete 171	37.906158,-4.788198	42,00	0,00
01/08/2024	Servicio Red Emacsa	Brazalete 156	37.912628,-4.803218	49,50	0,00
31/07/2024	Almacén Villalba	Brazalete 105	40.63639,-4.005598	33,00	0,00
31/07/2024	Almacén Villalba	Brazalete 105	40.636428,-4.00563	33,00	0,00
31/07/2024	Almacén Villalba	Brazalete 105	40.636502,-4.00569	33,00	0,00
31/07/2024	Almacén Villalba	Brazalete 105	40.636532,-4.00569	29,00	0,00

Daily Evolution of SOS Button Pressed



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BENEFITS



# Our Value Proposition

[1]

## Reduction of Insurance Costs

By adopting our technologies, companies can reduce these costs by 30%, which is equivalent to savings of up to 750,000 euros per year in a sector such as mining with 10,000 workers.

[2]

## Reduction of Operating Costs

HALOTECH solutions not only minimize accidents, but optimize operational efficiency, resulting in an overall reduction in operating costs.

For example, a chemical company with 500 operators could reduce its costs from €105,000 to €73,500 per year.

[3]

## Reduction of Reputational Costs

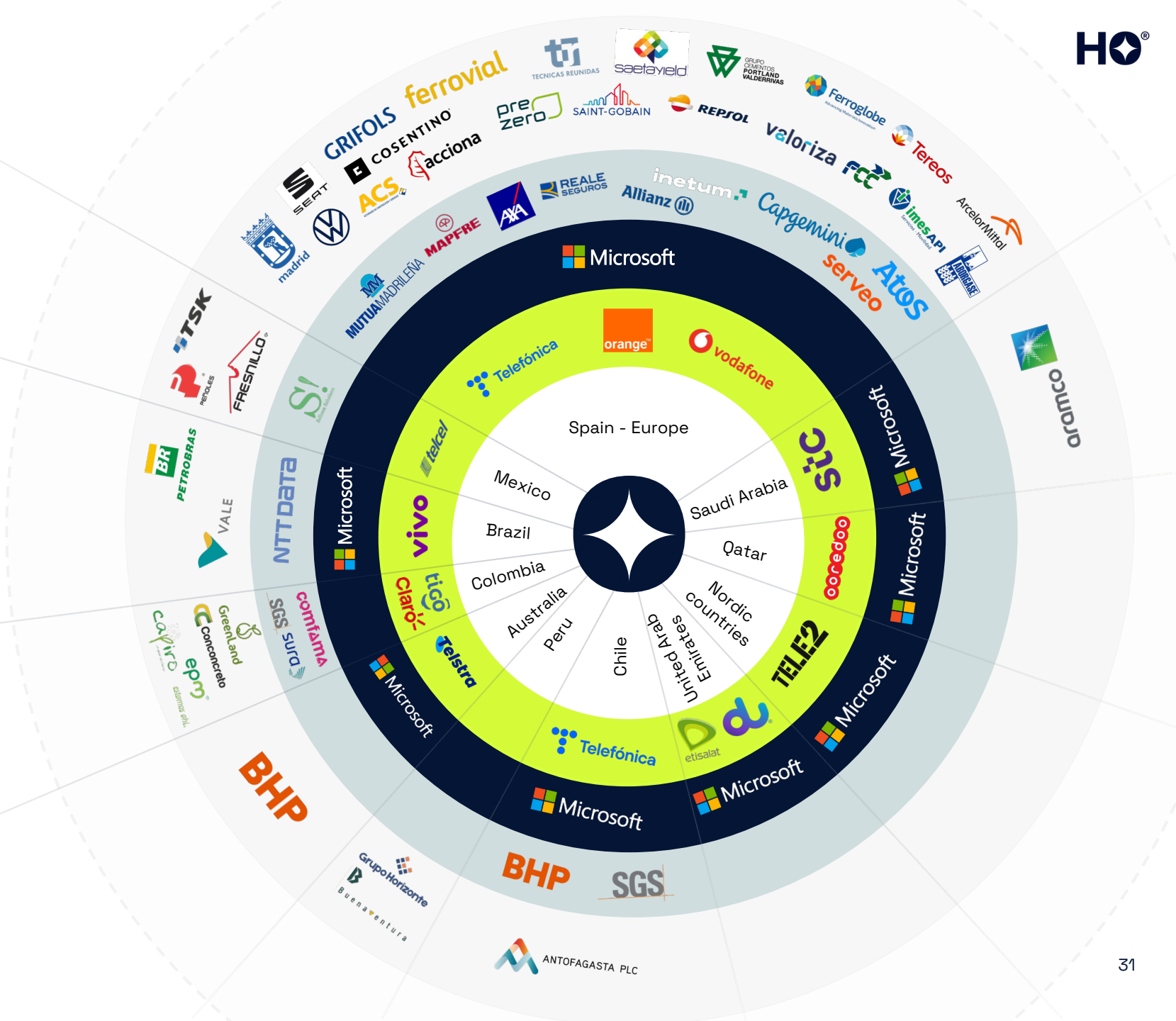
By significantly improving workplace safety, HALOTECH helps companies protect brand image and avoid these reputational losses, preserving customer trust and the company's financial stability.



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CLIENTS /  
PILOTS

# Our Clients









# Thank you!

Join us in our mission to make the industry a safer place. Because **every life saved is a triumph, every protected worker is a victory.**



**HALOTECH<sup>®</sup>**

Technology to build the future.