



Insider Navigation

the most advanced large scale AR platform

and our

WORKFORCE solution - connecting assets and worker



insider navigation

About Insider Navigation

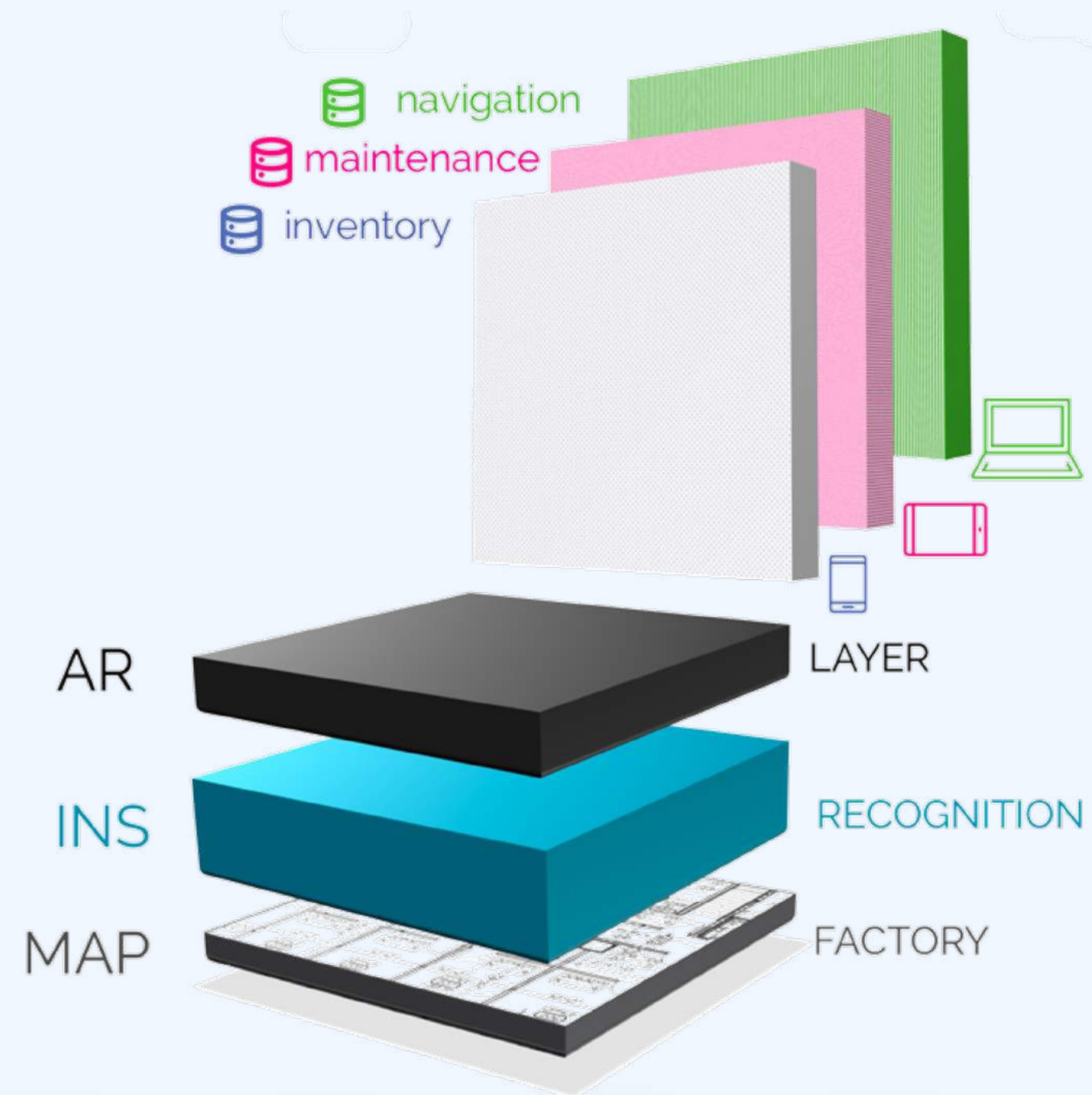


Providing inhouse tech stack to locate and navigate in venues – **INSIDER NAVIGATION** (indoor, outdoor, between building)
Plus, SaaS solution using this tech stack for coordinate assets and workforce called **WORKFORCE**

All based on computer vision – JUST using camera from mobiles, tablets soon glasses

Runs on AWS or as container on premise.

NO need for hardware in buildings like UWB, beacon, Wifi, RFID,...



2012

Research started

2014

founded

global partner and customer track record

INSIDER NAVIGATION



precise 3D positioning

Insider Navigation gets the absolute position of your device through a filter which gets input from markers, computer vision SLAM (simultaneous localization and mapping) and device sensors giving a precise position within **0.3-1 inches in 6 dimensions.**

[Start video](#)



Supporting seamless indoor / outdoor navigation



Easy navigation between different levels

INSIDER NAVIGATION



Easy setup in a matter of days / weeks

No expensive hardware like UWB, beacons, RFID;...needed

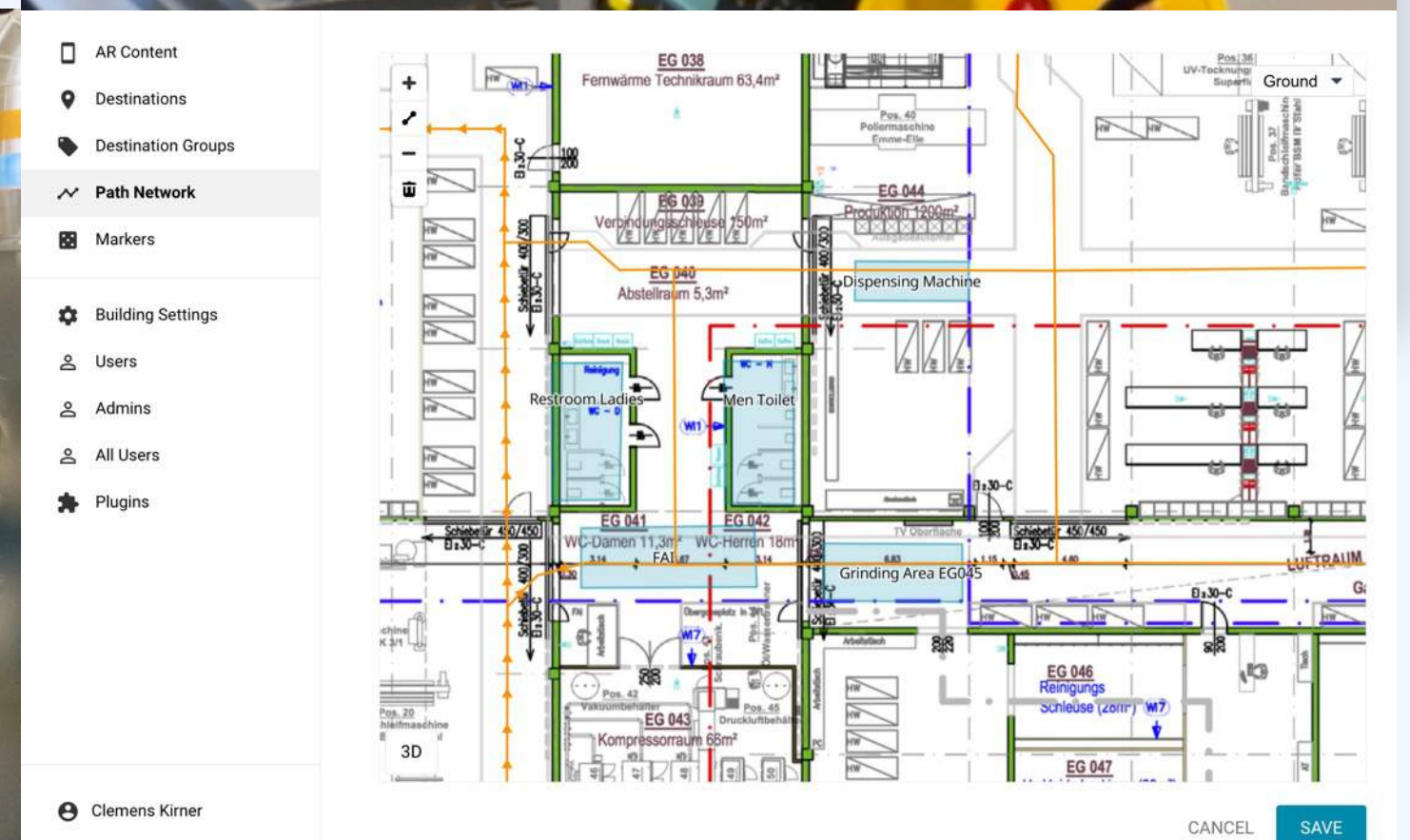
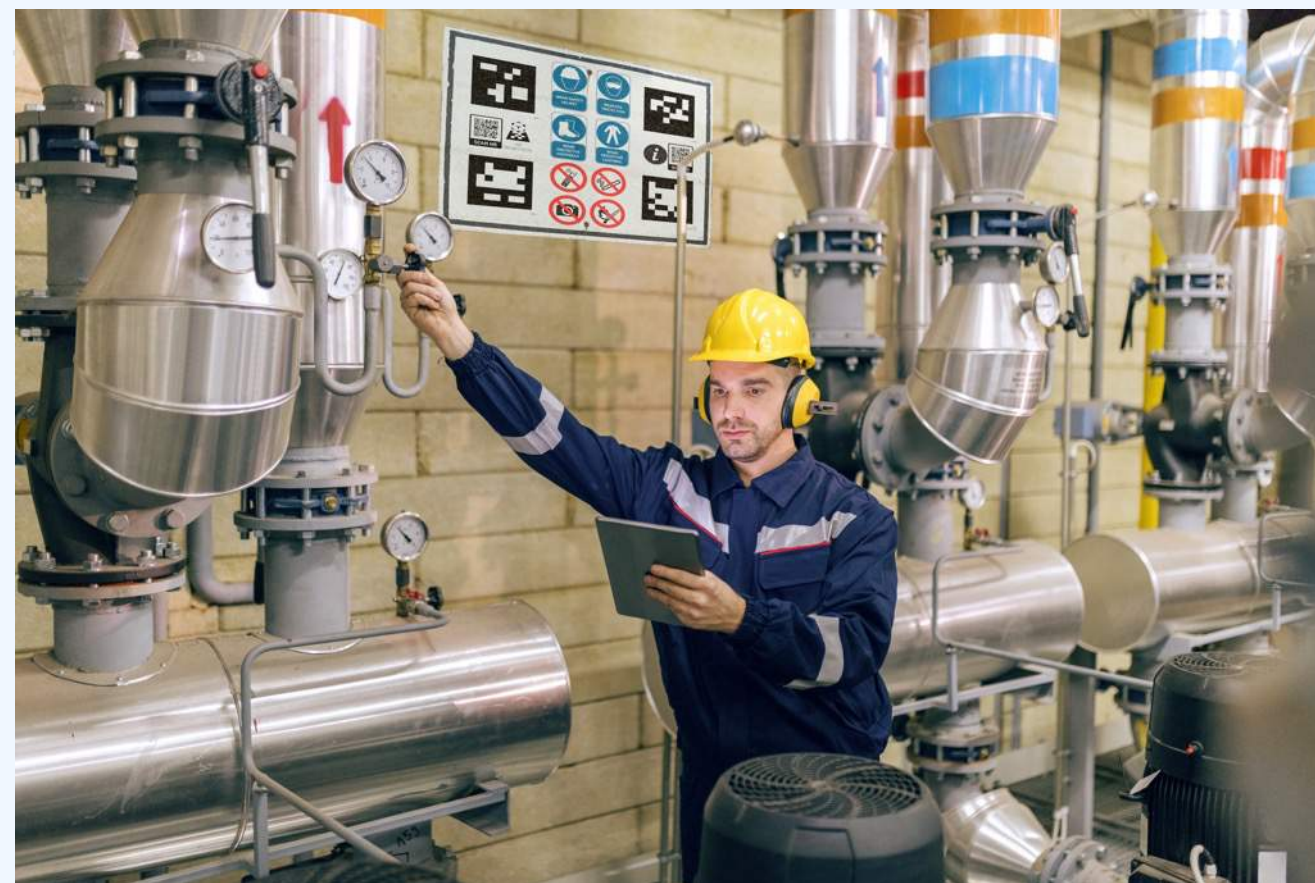
No wiring, no cables, no battery

No expensive 3D scan or so on

our printed markers are placed every 25-50m (can be done in house)

marker are measured with total station

All needed from the customer is a 2D floor plan



WORKFORCE



Easily locate assets in your venue, connect digital information, processes and help workforce to easily perform their tasks

[Start Video video](#)



Locate and manage
your uploaded indoor
and outdoor assets now
in seconds, effortlessly.

WORKFORCE – use cases



Facility management

Ensure workforce finds all assets in complex environment, ensure maintenance routines are done correct, and give workforce the right information on the right spot. [Video](#)

Fire protection

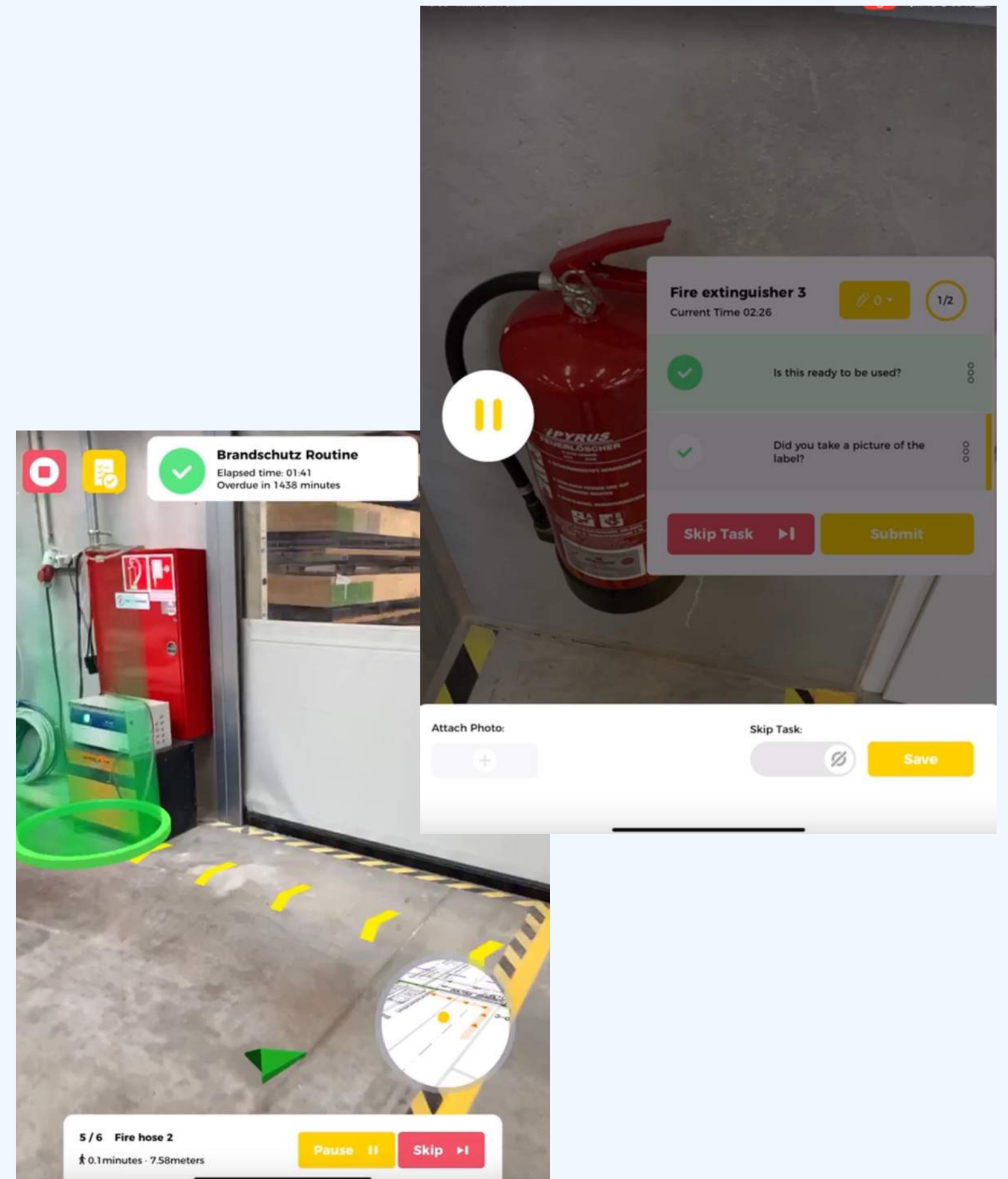
No matter if internal or external supplier, ensure all fire equipment is found, location, status of equipment, time are recorded, and proof is generated as report that all legal requirements are met. [Video](#)

Cyber security

In complex manufacturing venues thousands of PC are spread over the factory. Due to cyber security guidelines certain tasks (update, restart,...) need to be performed in person. Ensure that all PCs are found, and IT guidelines are met. [Video](#)

Safety routines

Guide your internal or external supplier along they way, help them with guidance to better perform their tasks and record with picture and location any issues so they can be easily followed up and be resolved.

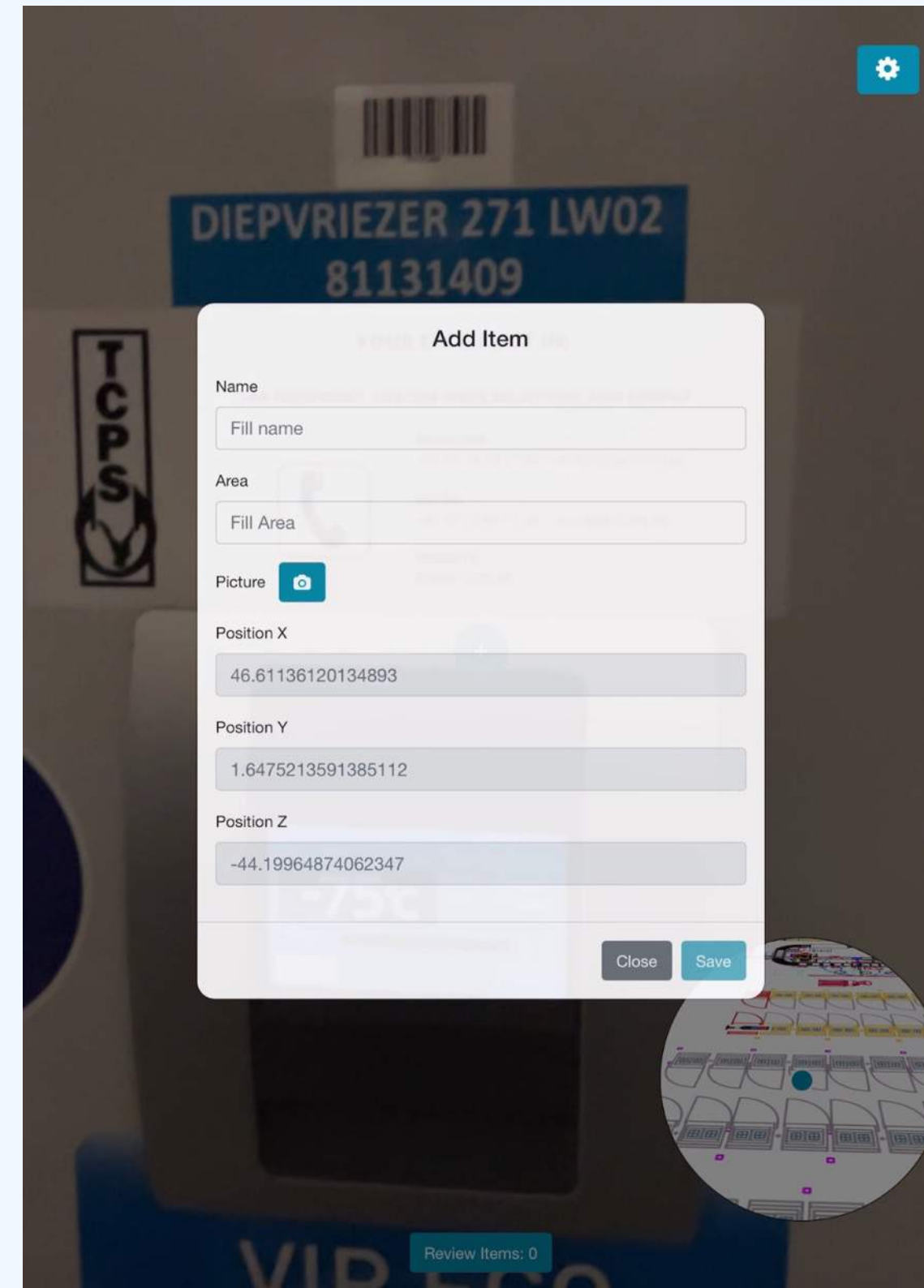


WORKFORCE – easily locate assets



Easily locate assets using our WORKFORCE app and look at the asset or via API to a system holding assets data and location

[Start video](#)



WORKFORCE – easily manage assets and related information



Easily manage assets using our WORKFORCE web portal – connect manuals, videos with assets to give worker right information at the asset they work on

The screenshot displays the Workforce 4.0 web portal interface. On the left is a sidebar with navigation options: Pages, Calendar, Dashboard, Items, Tasks, Routines, Inspection log, User management, and Company management. The main content area shows a table of assets with columns for Select, ID, Photo, Name, Area, Coordinates (X, Y, Z), Company, and Actions. A search bar at the top right contains the text 'Pfizer'. An 'Edit item' modal is open in the foreground, showing fields for ID (350), External ID, Name (A-10-10), Area, X (46.76450428867146), Y (1.6550992230459953), Z (-36.49408364217847), and Groups. The modal also includes an 'Upload' button and 'Save'/'Close' buttons at the bottom.

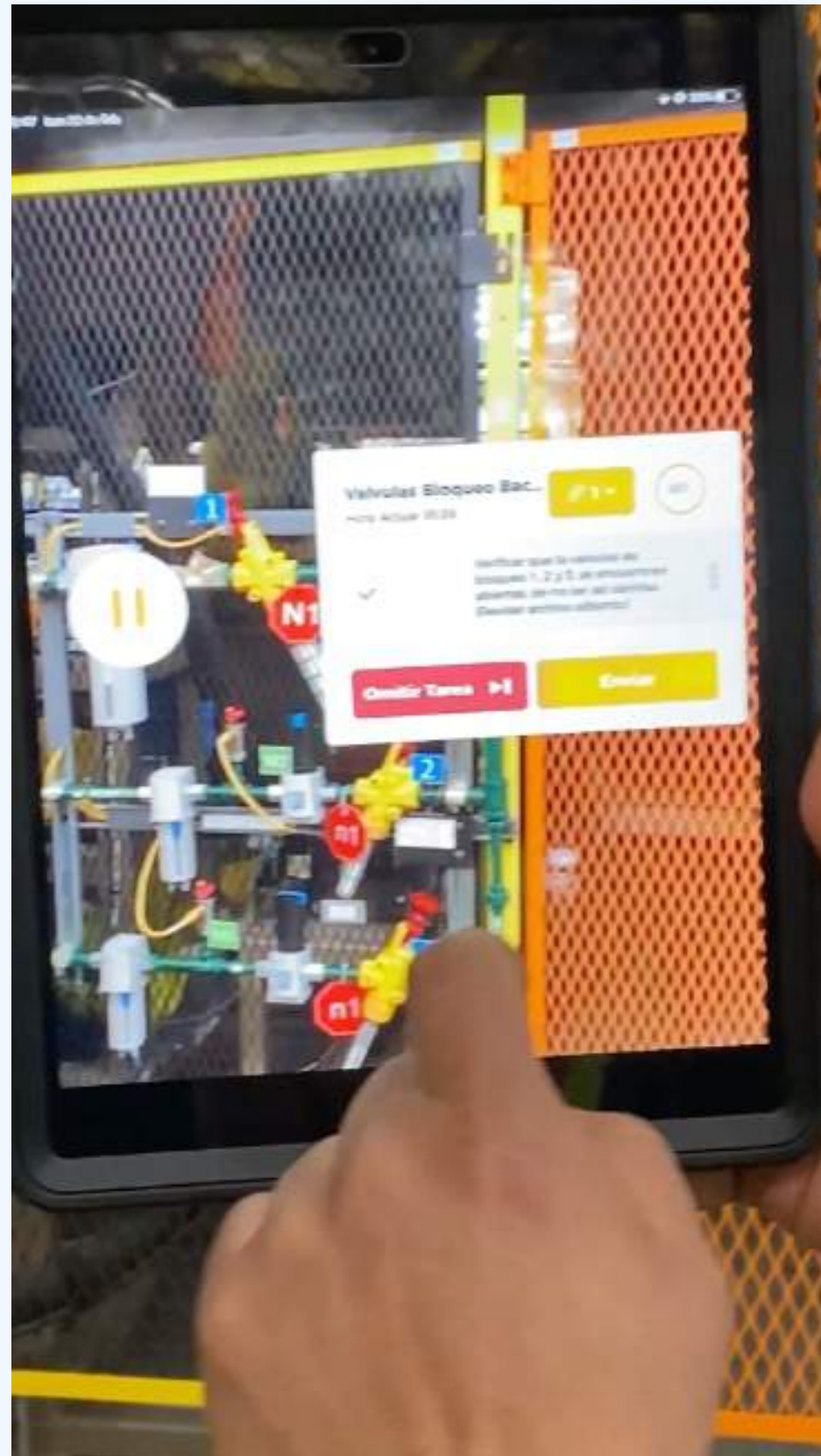
Select	ID	Photo	Name	Area	Coordinates			Company	Actions
					X	Y	Z		
<input type="checkbox"/>	360		Freezer 1		59.716	1.552	-36.881	Pfizer	Actions ▾
<input type="checkbox"/>	350		A-10-10						
<input type="checkbox"/>	349		B-10-04						
<input type="checkbox"/>	348		B-09-04						
<input type="checkbox"/>	347		B-04-04-01						
<input type="checkbox"/>	346		B-06-01-01						
<input type="checkbox"/>	345		A-06-10-01						
<input type="checkbox"/>	344		B-05-01-01						
<input type="checkbox"/>	343		A-08-10-01						
<input type="checkbox"/>	342		B-09-02-01						

WORKFORCE – assets connected information – easier work for workforce



Connect any kind of data with any asset so ideally workforce can solve 95% of problems alone before looking for a senior or starting a remote call

[Start video](#)



WORKFORCE – easily setup routines manually or through API to ERPs



Easily setup in minutes new tasks, routines and assign them to a certain workforce manually, upload data via CSV or via WebAPI connect SAP, IBM Maximo, Salesforce or any other existing ERP and let WORKFORCE become your easy-to-use frontend for your workforce that ensures that processes are fulfilled at the right assets.

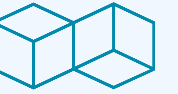
The screenshot displays the Workforce 4.0 user interface. On the left is a sidebar with navigation options: Pages, Calendar, Dashboard, Items, Tasks, Routines, Inspection log, User management, and Company management. The main area shows a modal window titled "Assign items to Cleaning". This window is divided into two columns: "Assigned items" and "Unassigned items", each with a search bar. The "Assigned items" list contains "Fire Extinguisher" and "Fire Alarm". The "Unassigned items" list contains "Pic 3" and "Pic 1". A "Flag 1" label is positioned between the two lists. At the bottom of the modal are buttons for "Next >", "Unmark assigned tasks", and "Close".

Overlaid on the right side of the screenshot is a "New task" form. The form includes the following fields and options:

- Company to add to: WiproTest (dropdown)
- Name: Change filter (text input)
- Description: cange oil filter (text input)
- Group: Group 1 (dropdown)
- Type: Tick/cross (dropdown)
- Automatic determination of status passed when: Tick Cross
- No validation

At the bottom of the form are three buttons: "Save", "Save and create another", and "Cancel".

WORKFORCE – reports, report log – all at one hand



Only when a worker walked to all assets, looked at them and performed all of his tasks a routine can be closed and will be marked **green**. WORKFROCE gives you an easy overview including pictures of the status of your venue and its processes. All results can be sent back to ERP systems via WebAPI.

The screenshot displays the Workforce 4.0 interface. On the left is a sidebar with navigation options: Pages, Calendar, Dashboard, Items, Tasks, Routines, Inspection log, User management, and Company management. The main area is split into two parts. The top part shows a 'Log details' modal for a routine named 'Inspección Taller' performed by 'Oper Candelaria' on '17.4.2023, 12:22:11'. The modal lists various metrics: Total time (01:51), Inspection time (01:51), Break time (00:00), and 8 errors found. Below the modal is a list of items inspected: 'Item #1: Aire Acondicionado 1' (green), 'Item #2: Inspección general' (red), and 'Item #3: Aire Acondicionado 2' (green). The bottom part of the screenshot shows a calendar for January 2022. The calendar has columns for days of the week and rows for dates. The 18th, 19th, 20th, 21st, and 22nd of January are highlighted with colored boxes representing routines: '00 Routine-1-Room-1' (green), '00 Routine-3-Room-3' (blue), and '06:00 Routine-2-Room-2' (green).

WORKFORCE – value proposition / business case



Why should you implement workforce besides that as our projects have shown worker are happy since their work life gets improved, they can focus on their tasks and they perform better?



WORKFORCE – value proposition / business case



Thanks to one of our customer we have a very good insight about the value INSIDER NAVIGATION and WORKFORE delivered:

Client: injection molding company, 7.000m² (75.000 sq ft), 30 people in maintenance, high grade of automatization, middle Europe

downtime reduction

WORKFORCE could help to reduce unplanned downtime by more than 15%.

Base is 48 weeks production per year, 15,53 hours downtime per week, 98,8 units produced per hour, EUR 10,20 cost per unit.

SAVINGS

EUR 112.683,69

Increased productivity

Less unplanned downtime, less restarts of machine, longer production periods resulted in 5% more output (based on the numbers above).

EUR 290.234,88

Lower qualifications needed

Many senior worker from the boomer generation are retiring. Younger people often do not intend to work in facility management and when they switch they are lower skilled often. Through WORKFORCE they can work like a senior but with less wage due to qualification.

EUR 200.400,00

Reduced onboarding training

Senior worker need to invest less time to onboard new employees since WORKFORCE guides them. New worker can be productive earlier

EUR 12.284,00

-> EUR 615.602,57 saving in relation to EUR 197. 900 investment for setup and license cost results in ROI of 0,29 years

A photograph of a person's legs and feet on a red running track. The person is wearing black pants and blue sneakers with red laces. The track has white lane markings. The image is partially obscured by a teal overlay on the right side.

Let's get started and contact us:

ck@insidernavigation.com

<https://insidernavigation.com/contact/>

More use case videos:

<https://www.youtube.com/channel/UCQrXr8hfaqAMv5pC7fWysMQ>



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