



HERMES
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2 0 1 7
FINALIST

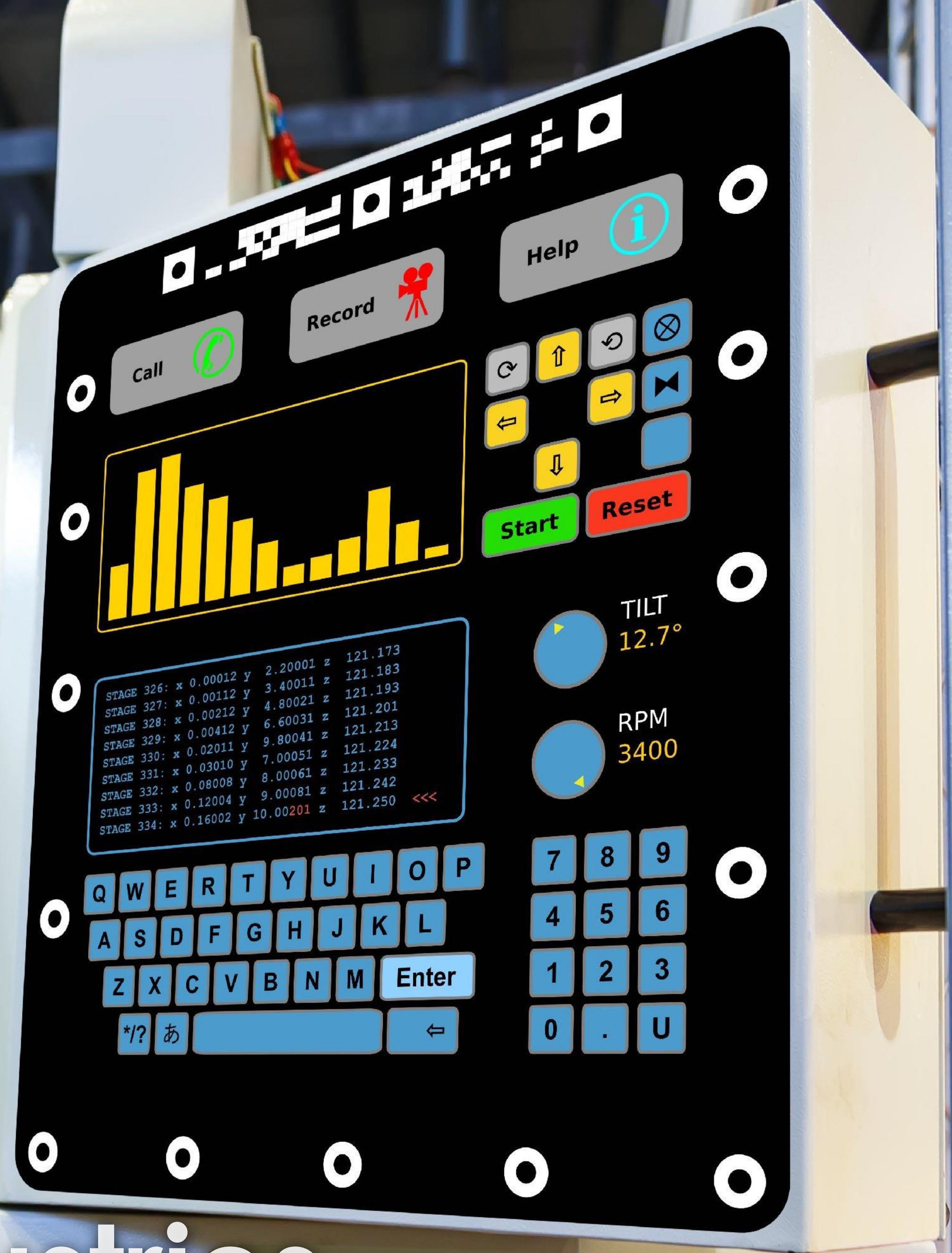
5G FWD

Nokia Digital Factory Challenge

WINNER



augmenta



Solutions for Digital Industries

Company Facts

- Founded in 2012 by three augmented reality and mobile industry veterans
- Focusing solely on enterprise AR solutions
- Based on scientific research done by the founders during the past 15 years
- Headquartered in Oulu, Finland; presence in Taiwan and Japan
- Holding core patents on the field
- Backed by venture capital funding

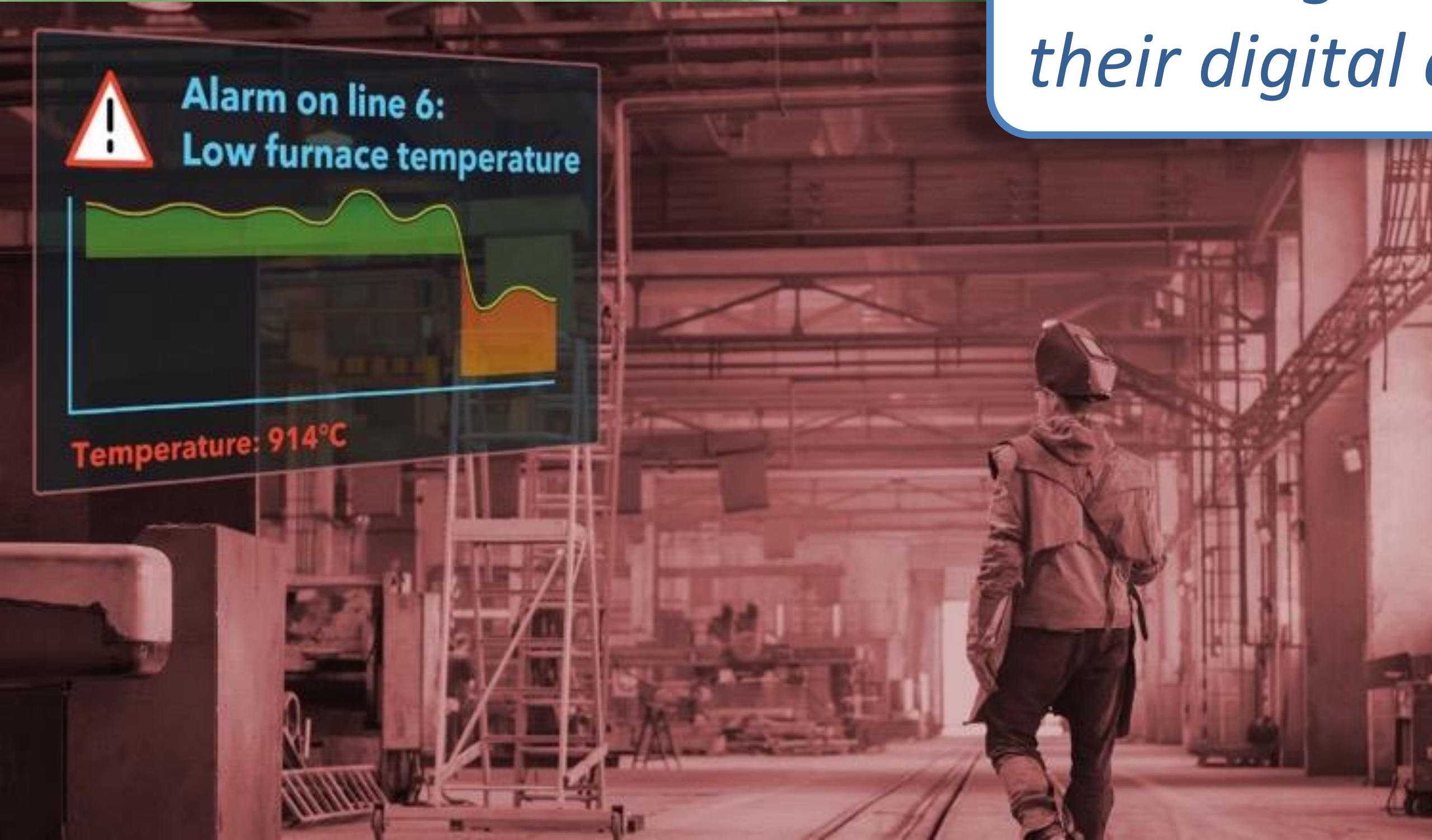


We create intuitive and configurable smartglasses applications that improve your bottom line





*We bridge workers with
their digital environment*





Augumenta SmartEyes



Augumenta SmartEyes

Easy-to-deploy kit for remote collaboration

Live video and audio calls with smartglasses users

IoT sensors for observing factory conditions

Enhanced visibility with streaming cameras

A single UI with all the information for remote experts



SmartEyes Benefits

No traveling; people stay safe, less money spent, smaller CO₂ footprint

Maximize experts' time utilization

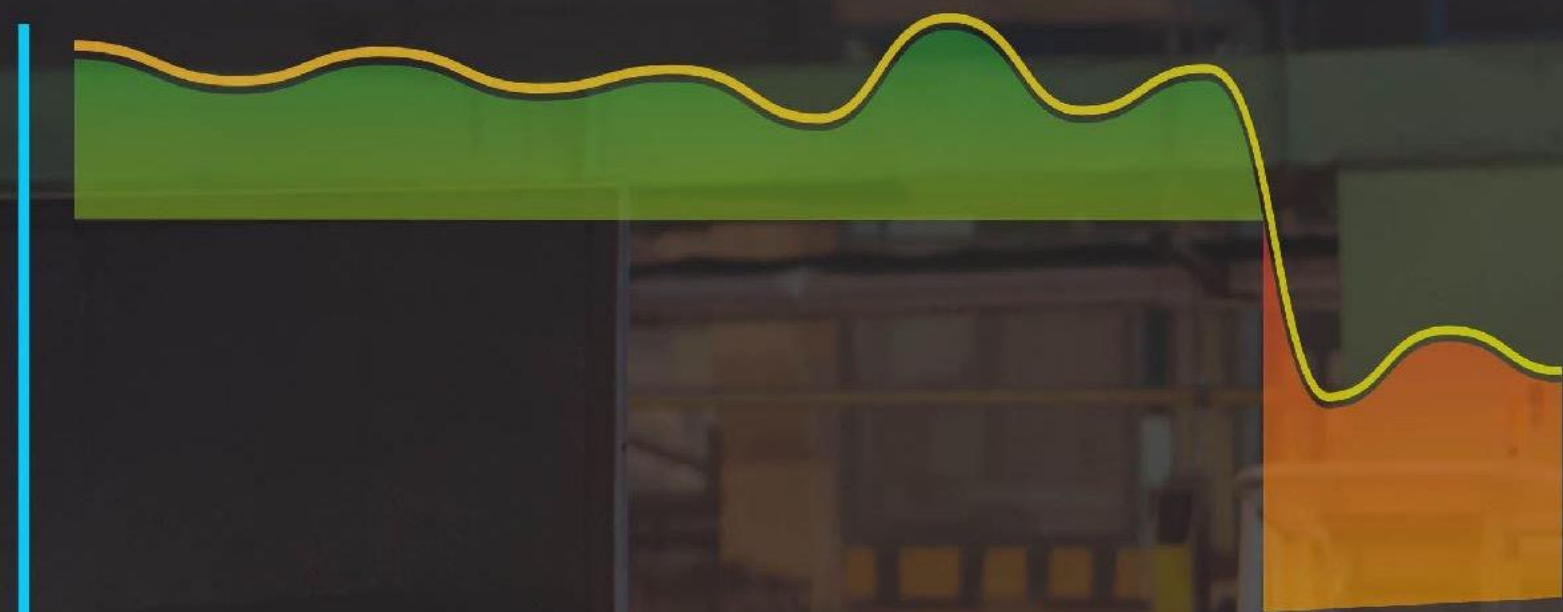
Better visibility into the target being observed

Multiple experts involved leads to faster problem solving

Establish yourself as a leader in post-COVID-19 world



Alarm on line 6:
Low furnace temperature

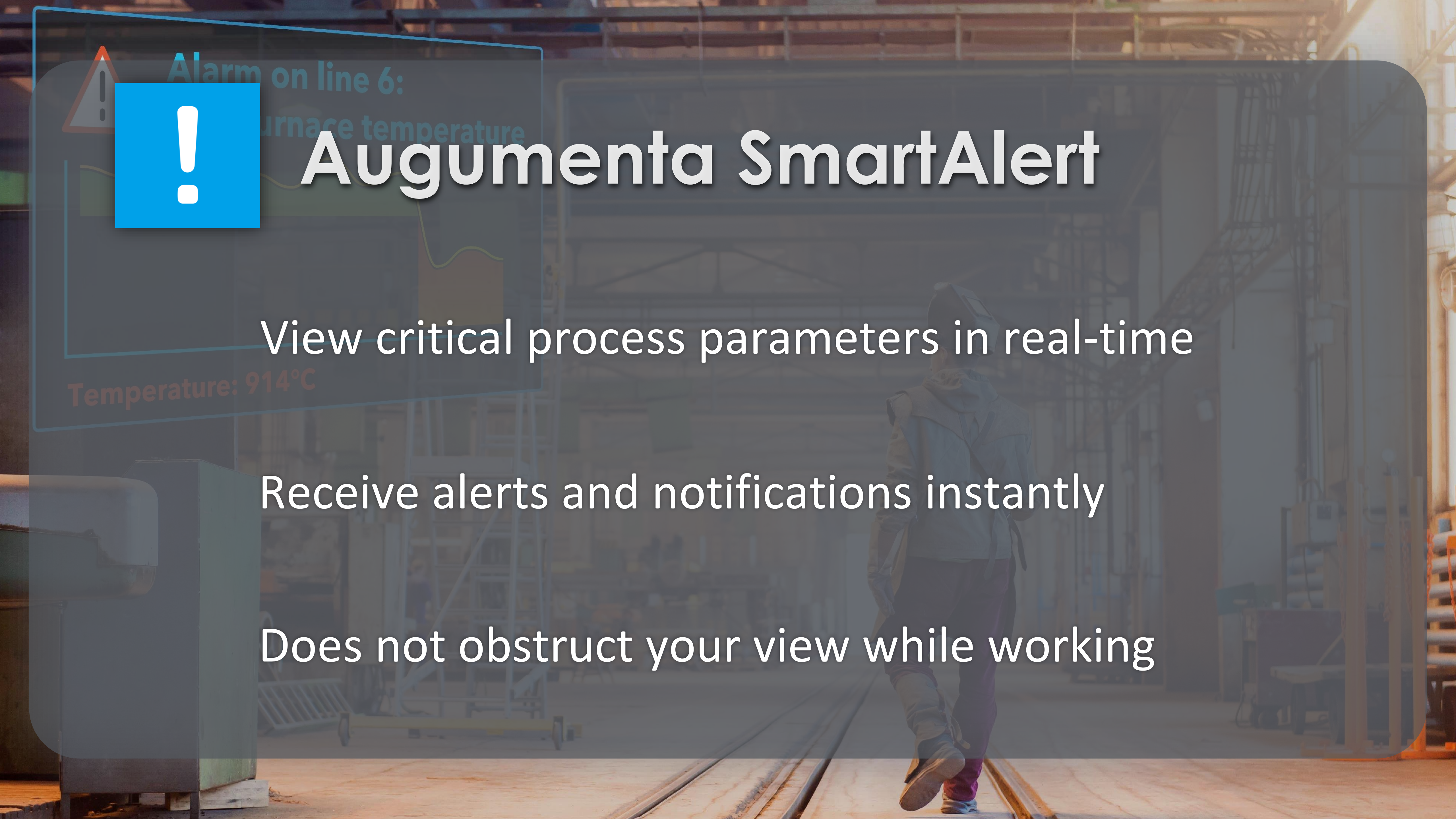


Temperature: 914°C



Augumenta SmartAlert





Alarm on line 6:

urnace temperature



Augumenta SmartAlert

View critical process parameters in real-time

Temperature: 914°C

Receive alerts and notifications instantly

Does not obstruct your view while working



Alarm on line 6:
Furnace temperature



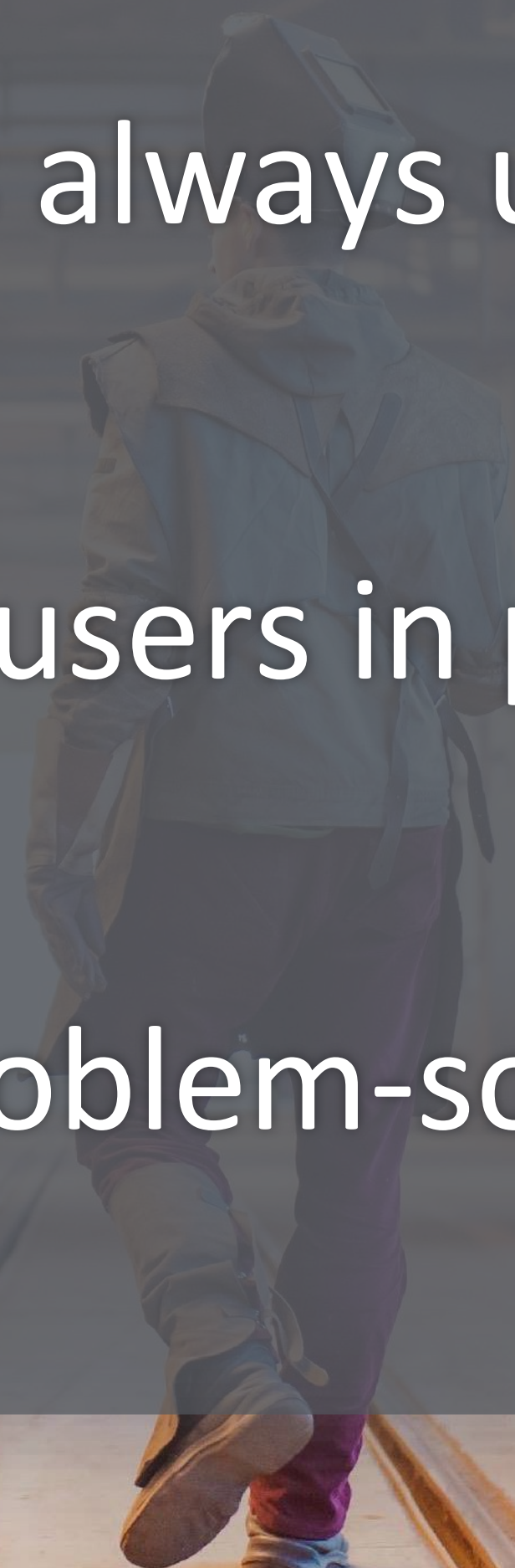
SmartAlert Benefits

Higher productivity: workers always up-to-date

Less mistakes: glasses guide users in problem solving

Less downtime: proactive problem-solving

Temperature: 914°C





Augumenta SmartAlert Lite



Augumenta SmartAlert Lite

Smartwatch solution for use cases where data does not need to be shown in front of eyes continuously

Receive alerts and notifications instantly; watch vibrates to notify user

Shares configuration settings with SmartAlert



Check joints **lubrication**

- ✓ LG extension cylinder joints
- ✓ Shock upper joint
- Extension arm three joints
- Fixed arm upper joint



R-R LG JI step 5/6



Augumenta SmartGuide



Augumenta SmartGuide

Step-by-step work instructions for field ops and QA

Enrich instructions with history data and videos

Capture images&videos to be included in reports

Have a video call with remote experts when needed



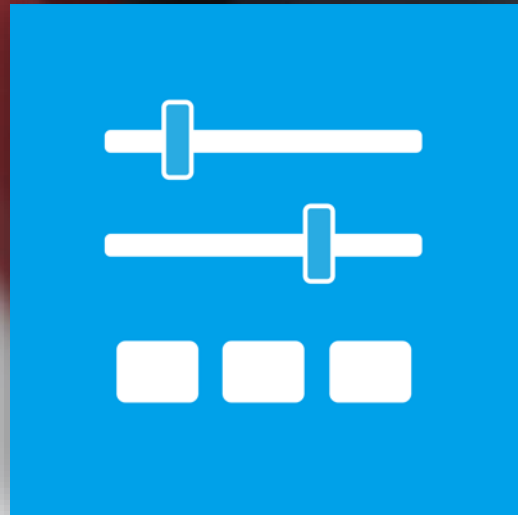
SmartGuide Benefits

Each maintenance step is guided and done properly

No step gets missed by mistake

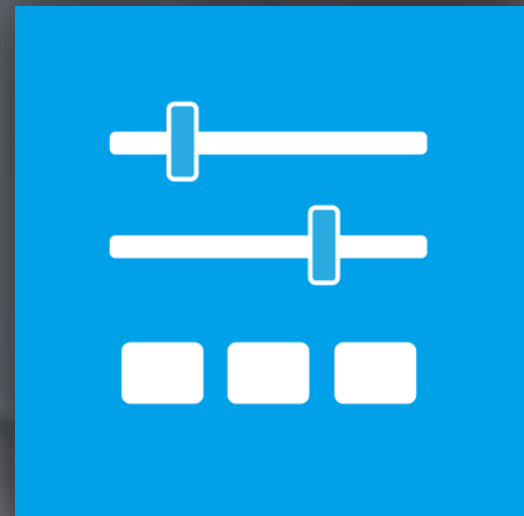
Junior workers become productive faster

No data lost; results saved automatically in backend



Augumenta SmartPanel



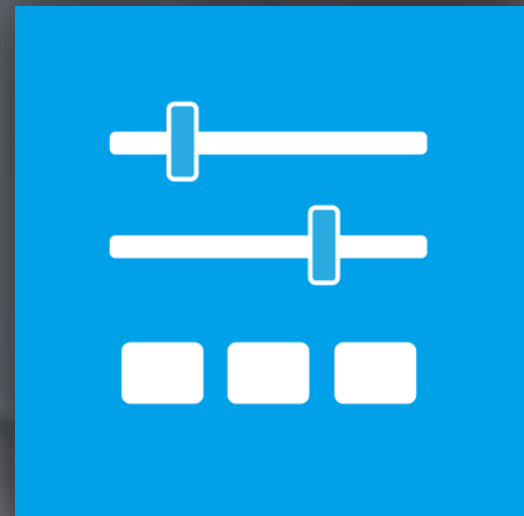


Augumenta SmartPanel

Flexible and cost-efficient AR user interface

Control local and remote machines

Render data from sensors and IoT platforms



SmartPanel Benefits

- UI always close to you: less walking around needed
- Faster operations: UI only shows inputs relevant to you
- Lower TCO: does not wear out, no need for service
- Secure and private: unauthorized use not possible



Augmenta Studio

<https://sss.augmenta.com/static/connectors>

DIO

OPCUA

opc.tcp://opcua.example.com:8484/hello/v

Client1

Organization1

Product1

Application1

Description

+ New

Name	Node ID
sub1	ub1

- showcase
- button_rectangular_textured
 - button_rectangular_textured_1
 - button_rectangular_textured_10
 - button_rectangular_textured_2
 - button_rectangular_textured_3
 - button_rectangular_textured_4
 - button_rectangular_textured_5
 - button_rectangular_textured_6
 - button_rectangular_textured_7
 - button_rectangular_textured_8
 - button_rectangular_textured_9
 - button_round_labeled
 - button_round_labeled_1
 - button_round_textured
 - media_text_label
 - media_text_label_1
 - media_text_label_2
 - media_text_label_3
 - media_text_label_4
 - media_texture
 - media_texture_1
 - media_texture_2
 - media_texture_3
 - media_texture_4
 - meter_analog_needle

Property	Value
SCALE	0.666666666666666711
ROTATION	0
IOT CONNECTOR	None
TEXTURE	⇒ symbols-black-019
TEXTURE ALIGNMENT	0.50.5
TEXTURE SCALE	11
TEXTURE SCALING MODE	<input checked="" type="radio"/> Fit <input type="radio"/> Fill <input type="radio"/> Crop <input checked="" type="radio"/> Single <input type="radio"/> Tiled



Augmenta Studio



Augumenta Studio

A tool for configuring Augumenta applications

Bind applications with data sources and machines

Deploy final design to glasses with a single click





Augmenta Software Platform

UI Widget Library Optimized for Viewing on Smartglasses

Stereoscopic 3D Rendering Engine

Interaction Framework

RGB/3D
Gestures

Virtual
Surfaces

Smart
Panel

Connectivity Framework

Connection Manager

MQTT

OPC
UA

Mod
bus

HTTP

Web
RTC

Location Framework

Beacons

QR
codes/
markers

GPS

Content Framework

Audio/Vid
eo/Image

3D
models

Structured
data

An industry-proven SW platform for developing robust AR applications



STATUS : ACTIVE

VOLUME DELIVERED (L)

44.2

EST. TIME REMAINING : 5 minutes

Battery : 64% 30/10/17 13:49:10

PRESET VOL.
150 L

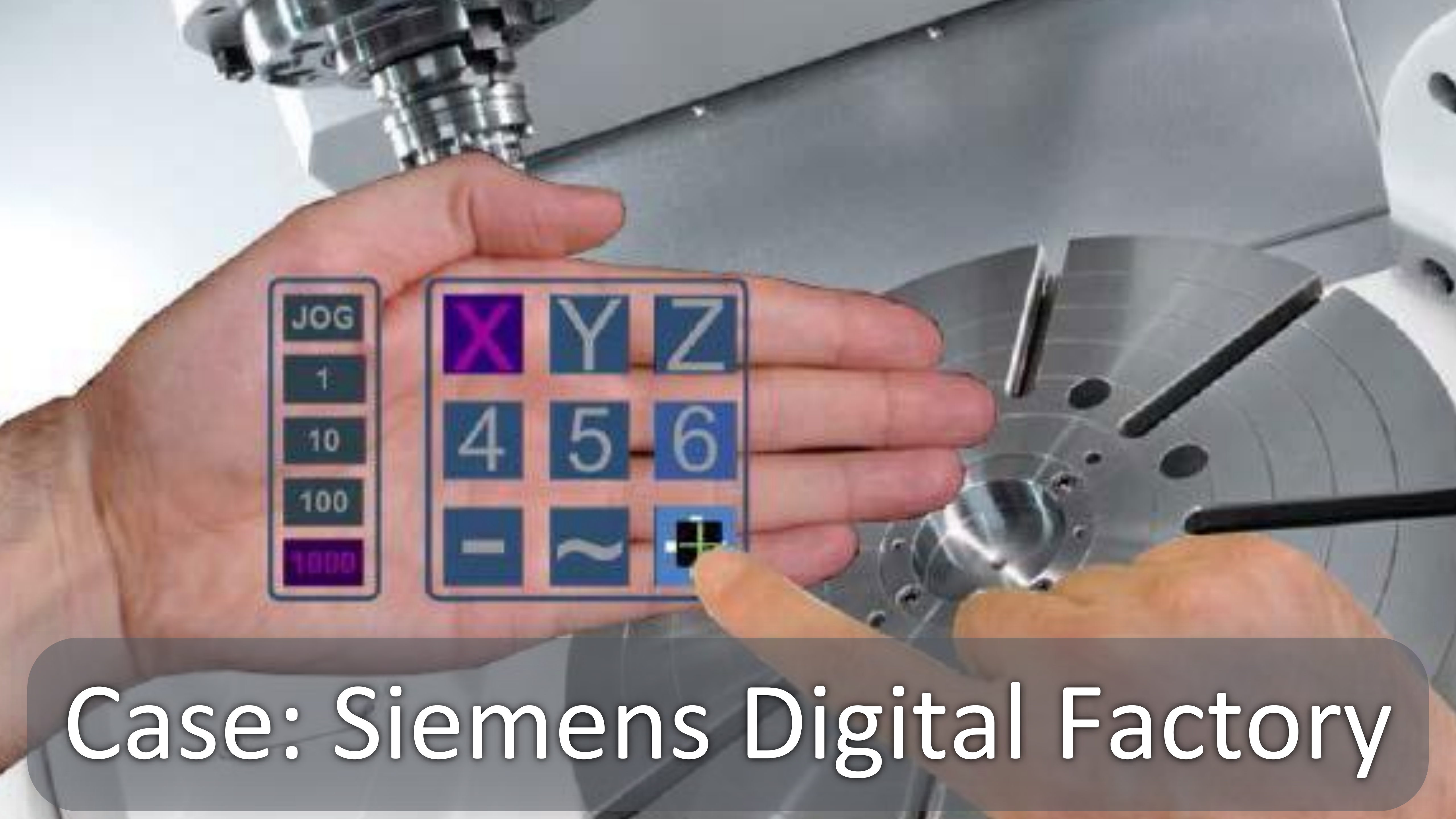
AVG. FLOWRATE
25.5 L/m

AVG. DENSITY
0.921 ppm

dP
3.5 psi

H2O
0.4 ppm

Case: IDEX Corp



Case: Siemens Digital Factory

Smartglass Devices We Recommend



Realwear HMT-1

Robust design
ATEX certified



Vuzix M400

Integrates with helmets,
safety glasses etc.



Google Glass EE 2

Lightweight and comfortable
Waterproof



Epson MOVERIO BT-350

Affordable binocular design



Lenovo ThinkReality A6

High performance
in a rugged design



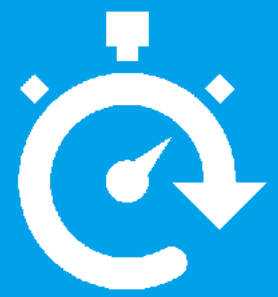
Microsoft HoloLens 2

Senses the world
around you (SLAM)

Augumenta Value Add



Higher worker efficiency; less human mistakes



Cost-efficient and fast to deploy: start measuring ROI



Easy-to-use: intuitive user interaction



Device agnostic: deploy on any smartglass



augmenta

Thank You!



augmenta.com



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