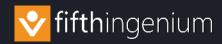


EXPERTISE



+4yr

+4yr

+30

+10

of experience with **Mixed Reality**

of experience with **Education, Industry 4.0,** Al and loT

AR projects Developed

Digital Manufacturing Solutions

CUSTOMERS

























SPEED, QUALITY, AND SAFETY

Machine downtimes and workplace accidents are HUGE costs





LACK OF EXPERIENCE AND TRAINING



TRAVEL
TIME/COST/BAN

MARKET TREND

Companies are creating a new reality for work

Adopt technology solutions to enable their teams to work in new ways



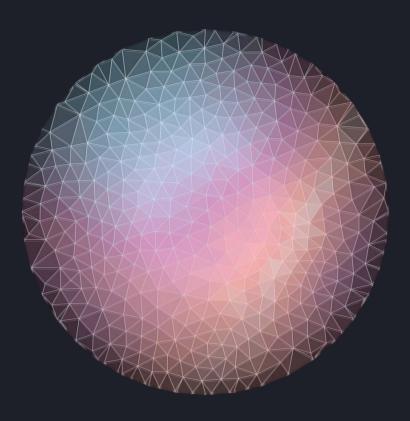
blending of the physical and digital worlds

PHYSICAL WORLD

MIXED REALITY

DIGITAL WORLD



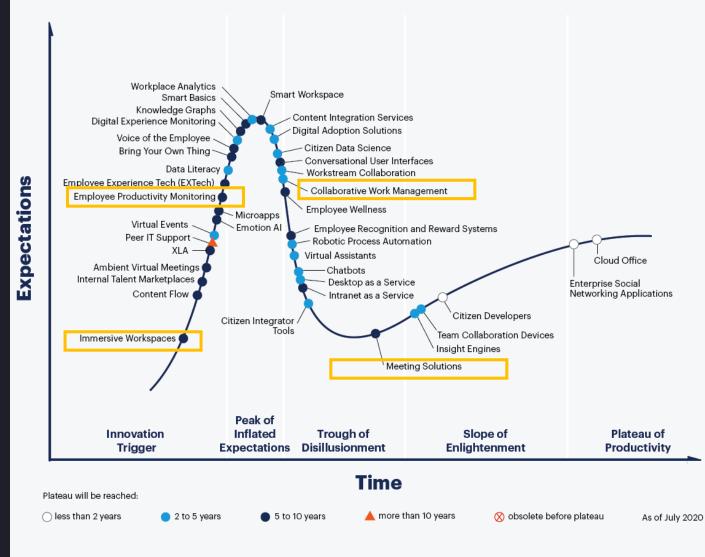


MARKET TREND

The digital resiliency of the workforce during and after the COVID-19 pandemic

Growing digitalization of physical objects to deliver new ways of working and improve workforce efficiency

Hype Cycle for the Digital Workplace, 2020



gartner.com/SmarterWithGartner





The next breakthrough in Mixed Reality

Moving from individual to shared experiences



EMPOWER THE WORKFORCE WITH NEW MIXED REALITY & AUGMENTED INTELLIGENCE INSTANTLY TELEPORT PEOPLE AND INFORMATION ANYWHERE IN THE WORLD

CREATE THE BRAIN OF MODERN INDUSTRY 4.0









Increase operations efficiency and safety with AR work instructions, digital training & remote collaboration for front-line workers.



OPERATIONS EFFICIENCY



INCREASE PRODUCTIVITY



ADOPT REMOTE WORK



ENSURE BUSINESS CONTINUITY







3D MANUAL



MR CHECKLIST

PLANNING & PROTOTYPING



RELAYOUT



3D MODEL VIEWER

REMOTE ASSISTANCE & AUDIT



REMOTE ASSISTANCE

TRAINING & SALES (TINALP)



TRAINING



CATALOGUE

ANALITYCS & IOT



DATA COLLECTION



ANALYTICS

MODULAR AND INTEGRATED ENTERPRISE AR SYSTEM



VISUAL GUIDANCE

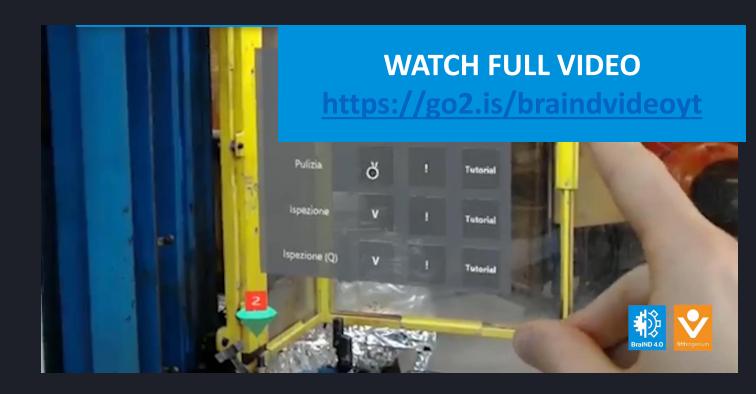
Use visual step-by-step instructions and AR training guides to reduce complexity and avoid errors.

REAL-TIME INFORMATION

Visualize Internet-of-Things and live data from IoT platform and accelerate decisions.

REMOTE COLLABORATION

Deliver expert knowledge and fast access to information with AR-enhanced support.







WATCH FULL VIDEO

https://go2.is/3dremotesupport



TINALP

Creating advanced learning experience with Mixed Reality & Augmented Intelligence



OPTIMIZE & DIGITALIZE PROCESSES



IMPROVE
TRAINING & SKILLS
DEVELOPMENT



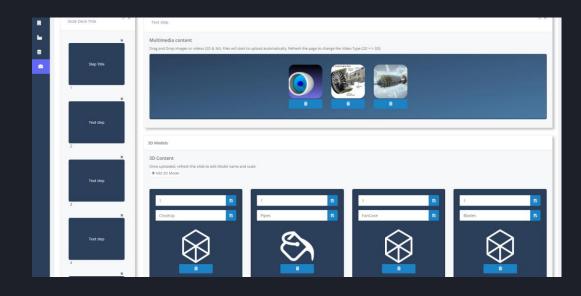
CREATE A SAFE TRAINING ENVIRONMENT

VISUAL EDITOR - POWERPOINT FOR MIXED REALITY



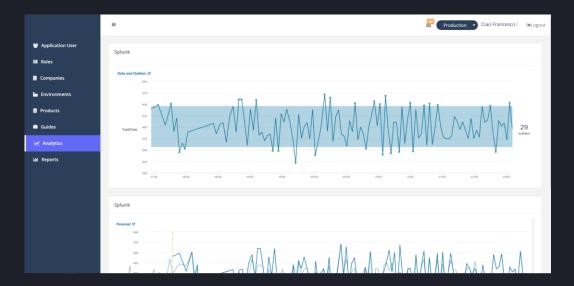
CREATION





DEPLOY





Advanced learning experience with Mixed Reality & Augmented Intelligence

WATCH FULL VIDEO

https://go2.is/tinalplessoncreation

WATCH FULL VIDEO https://go2.is/tinalp



UNIQUE AR EXPERIENCE





REAL 3D CONTENT



FULLY HANDS-FREE EXPERIENCE



SHARED EXPERIENCE

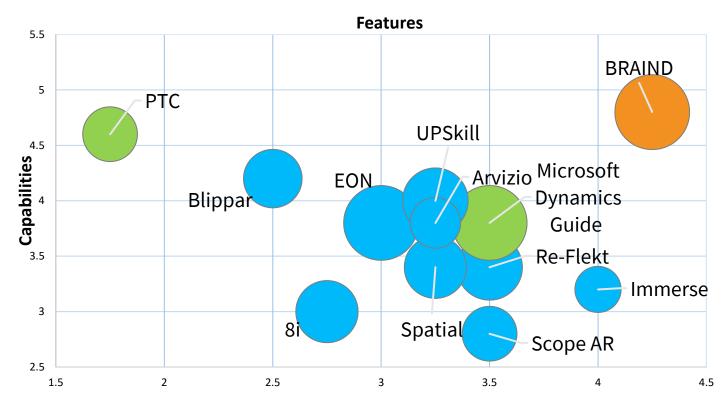


ANY PLACE AND ANY TIME

PROPRIETARY ULTRA LOW LATENCY 3D SYNCHRONIZATION TECHNOLOGY

BRAIND COMPETITORS





CAPABILITIES*

Product Customization Multi-Devices AR/VR/Mobile Third-Party Software Integration Scalability 5G Native

FEATURES**

Planning & Prototyping support Operational guide VR/AR Collaborative Shared Experience (local/ remote) VR/AR Training Monitoring & Track

COMPETITIVE ADVANTAGES

- Leading-edge AR/MR modular & customizable platform leading to rapid on-boarding of new customers
- Meet security & privacy needs with a scalable Edge to Cloud solution going from hybrid deploy and 5G Multiaccess Edge Computing
- Advanced Collaborative Multiusers Sharing Experience on same physical location or remotely
- Open product ecosystem

^{*}Forrester, The CIO's Guide To Augmented, Mixed, And Virtual Reality

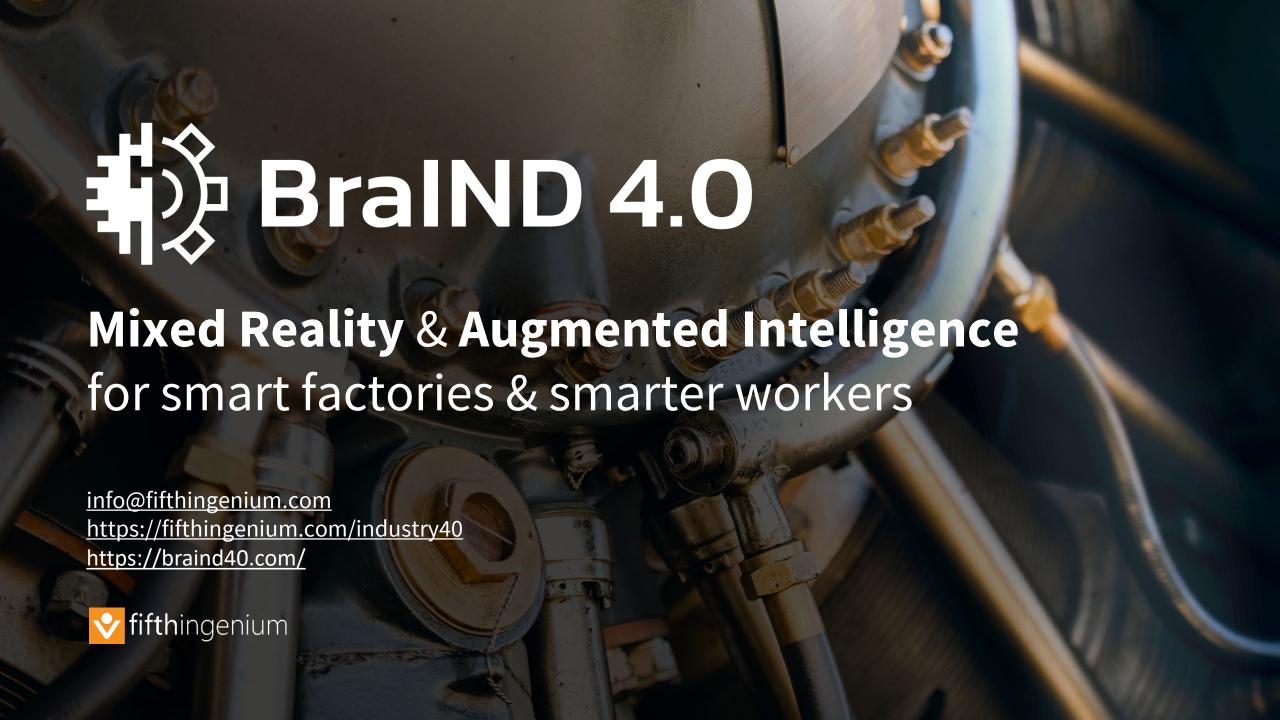
^{**}Forrester, New Tech: Augmented Reality, Virtual Reality, And Mixed Reality, Q1 2019

GO TO MARKET / SCALEUP STRATEGY



FULLYINTEGRATED

solution for **industrial machinery manufacturers** who need to differentiate themselves and offer superior man-machine interfaces and performances







USE CASES CUSTOMER HISTORY



USE CASE: MAINTENANCE





BRAIND modules (3D Manual and MR Checklist) allow you to digitize through augmented reality the processes of assembly, maintenance and monitoring, with the ability to display data in real time and get remote support from an operator in augmented reality.

KEY BENEFITS:

- Reduction of production line downtime
- Increased reliability
- More adherence to procedures
- Increased safety

Demo:

https://youtu.be/s2feG8E_cRo https://youtu.be/_HHjQjiOJGU

MAINTENANCE



3D MANUAL



MR CHECKLIST

USE CASE: PLANNING & SAFETY





PLANNING & PROTOTYPING



LAYOUT



3D MODEL VIEWER

BRAIND modules (Layout and 3D Model Viewer) allow to use augmented reality to support the set-up and layout operations of line stations, ensuring compliance with the rules of ergonomics, safety and physical space occupied by the various components.

KEY BENEFITS:

- Increased workspace safety
- Reducing the risk of errors
- Cost reduction
- Reducing the risk associated with all-digital design

Demo:

https://youtu.be/OhZr6mok_yA https://youtu.be/upAc9UP1WZk https://youtu.be/s2feG8E_cRo

USE CASE: TRAINING





BRAIND modules (Training and Skills) can be used to training the workforce in order to learn how to use actual/new machinery and digital tools. The Mixed Reality simulation allows individual virtual training and self assessment.

KEY BENEFITS:

- Reduction in travel costs
- Accidents prevention
- Increased tracking of employee learning activities
- Increased workspace safety
- Increased learning engagement

Demo:

https://youtu.be/4GFhHUIVA0M

TRAINING & SALES



TRAINING



CATALOGUE

USE CASE: AUDIT & QUALITY ASSURANCE





MAINTENANCE



3D MANUAL



MR CHECKLIST



BRAIND modules (3D Manual, MR Checklist and Remote Assistance) can support and improve audits and quality control tasks remotely, integrating the ability to show checklists, display and collect data in real time, with an expert who at all times can verify that all requirements are met.

KEY BENEFITS:

- Reduction in travel costs
- More adherence to procedures
- Quality improvement
- Paper cost reduction

Demo:

https://youtu.be/s2feG8E_cRo https://youtu.be/ HHjQjiOJGU



MAINTENANCE ASSISTANCE





CUSTOMER: IVECO (FCA Group)

CHALLENGE:

Supporting operators during maintenance, to ensure that operations are carried out in the correct order and in the established manner.

SOLUTION:

Augmented reality application that guides the operator step by step in maintenance, with the indication of safety devices, possibility of accessing manuals and videos, and the possibility of indicating malfunctions or problems that are immediately reported to the head of the shift.

Demo:

https://youtu.be/s2feG8E_cRo



ADVANCED REMOTE SUPPORT





Hudi PharmaX Passion to perform

CUSTOMER: HUDIPHARMA

CHALLENGE:

Remote Assistance to its clients, especially during the COVID-19 pandemic, when traveling costs and times spiked, by allowing a remote expert to being "phygitally" present near the machine and the local operator.

SOLUTION:

By using BraIND 4.0 3D Remote Support the client was able to achieve full remote assistance which cut travel cost times and improved its clients satisfaction.

Demo:

https://go2.is/3dremotesupport

3D TRUCK VISUALIZER





CUSTOMER: IVECO

CHALLENGE:

the cost of producing a single prototype of a truck door exceeds \$60K. You want to be able to evaluate different solutions and try them on the existing truck cabin.

SOLUTION:

visualization of the hologram exported by CATIA, in real scale, superimposable to the physical model of the truck, with the possibility to manipulate it and change color, and view the entire cabin 3D model.

FCA IVECO

FIAT CHRYSLER AUTOMOBILES

Demo:

https://youtu.be/OhZr6mok_yA https://youtu.be/upAc9UP1WZk

CAR COCKPIT VISUALIZER





CUSTOMER: LAMBORGHINI

CHALLENGE:

visualize and simulate new cockpit concepts for future cars, without the need to produce them physical prototypes but only virtual ones that can be tested by operators on the car.

SOLUTION:

display of new animated cockpits as holograms for a human operator within an existing car and simulation of new functionalities and features



Lamborghini

3D CAR CONFIGURATOR





CUSTOMER: FERRARI

CHALLENGE:

the design team of the new car concept would like to see the model in full scale and be able to see different configurations, study its reflections, and understand its proportions

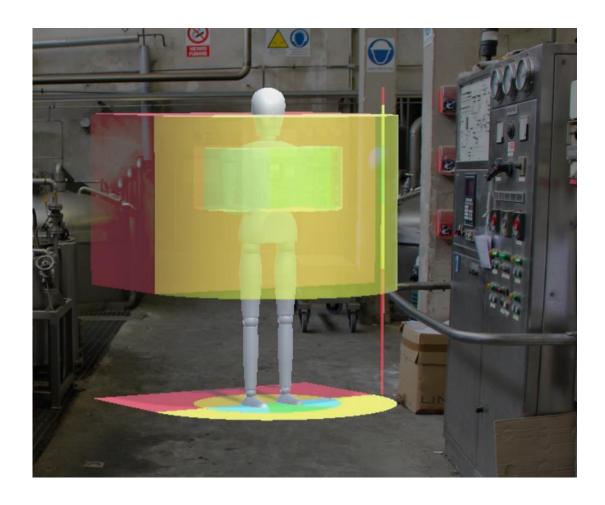
SOLUTION:

shared experience for up to 6 people which see the car at the same time in full scale and can make changes on the different external and internal configurations



WORKPLACE DESIGN & SAFETY RISKS ANALISYS





CUSTOMER: IVECO

CHALLENGE:

support the design team of a new part of the production line in configuring the spaces to ensure ergonomics and the safety of workers.

SOLUTION:

to evaluate the overall dimensions and of a "standard worker" to visualize the parameters/areas of ergonomics and safety

Demo:

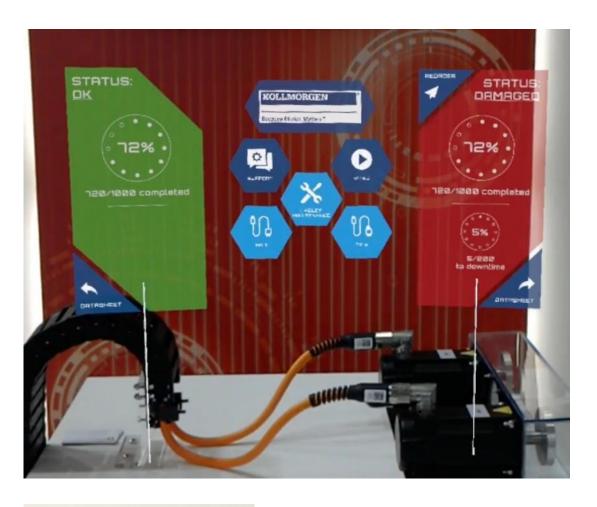
https://youtu.be/s2feG8E_cRo





REALTIME DATA VISUALIZATION





CUSTOMER: HTC (HIGH TECNOLOGY CABLES & CONNECTORS)

CHALLENGE:

offer the operator the possibility to receive real-time data from smart cables via IoT solution

SOLUTION:

display and interaction with real-time data of smart cables (collected from IoT devices/sensor of cables) through augmented reality headset and IoT platform

Demo:

https://youtu.be/_HHjQjiOJGU



TOOLS INVENTORY





CUSTOMER: IVECO

CHALLENGE:

audit operation tools, the work shift cannot begin if all the tools are not present, only the shift leader can proceed with the replacement of missing tools.

SOLUTION:

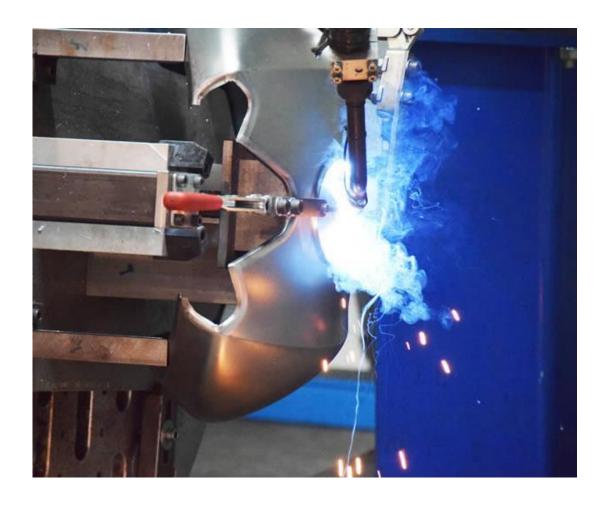
IoT system with IP cameras using Machine Learning for the identification of the instruments and automatic detection of those missing, with a cascading alert system.





PREDICTIVE MAINTENANCE





CUSTOMER: IVECO

CHALLENGE:

evaluate the accumulation of dust in the welding bench and optimize cleaning operations.

SOLUTION:

creation of a dedicated sensor for data sampling and integration with a system for data collection and processing with ML approach to estimate the best time for performing maintenance and cleaning operations.





MORE UNDER NDA











DEFENSE CHEMISTRY



FOOD

