INDUSTRY

AUMENTASOLUTIONS

AUGMENTED REALITY FOR INDUSTRY

AUGMENTED
REALITY

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FOR INDUSTRY 4.0

Our Augmented Reality technology provides solutions that increase productivity and efficiency in the fundamental processes of your company.

These solutions enhance the efficiency of your team and processes through **virtual training**, intuitive access to **geolocated information**, **remote assistance** in repairs and maintenance, tools that facilitate the **planning and development of products and installations**, and that make the **project presentations** more concrete and impactful.

SOLUTIONS

VIRTUAL TRAINING

ALL KNOWLEDGE WHEN NEEDED

The use of Augmented Reality allows you to visualize graphic information superimposed on real elements and models. Access desired information quickly and intuitively to understand complex processes, simplifying the tasks of repair, installation, maintenance or training.

TAS (Technical Assistance Service)

By visualizing embedded virtual elements on real equipment, it is possible to optimize time and minimize risk in the repair processes.

VIRTUAL MANUALS

Framing any equipment with your tablet or Smartphone allows users to consult repair manuals or accurate and updated technical information.

LEARNING

Decrease the learning curve using AR. This technology will allow you to visualize internal mechanical elements superimposed, thus achieving a better and faster identification and understanding.

BENEFITS:

· Decrease learning curve.

· Use in remote environments.

· Better understanding of complex processes.

· Cost savings in training.

· Display of hidden elements.

· On demand access to references.

· Reduction of the risk of error.

· Experienced and intuitive product experience.

APPLICATIONS:

· Training.

· Workshops.

· Presentations.

· Complex systems or with a large number of references.

· Training simulation.

· Facilities - remote repairs.

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SOLUTIONS

GEOLOCALIZED INFORMATION

COMBINE THE DATA OF YOUR BACK-END DATABASE AND THE CRITICAL INFORMATION OF YOUR INDUSTRIAL PROCESSES

The geolocation technology will allow you to visualize the information through mobile devices in real time and in the place that it is needed.

Integrate reality and virtual content to visualize necessary information in your critical processes.
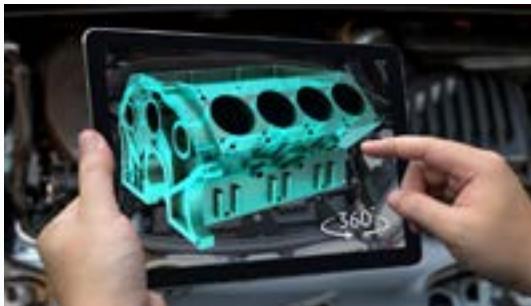
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SUPERIMPOSING DATA IN THE REAL ENVIRONMENT

Allows for the display of back-end information superimposed on the real environment by combining data, graphics and 3D elements.

GEOLOCATION DATA VISUALIZATION

Operators of industrial plants and, in general, of business facilities with complex information, can access a large number of data elements located in different databases, at the specific site where they are needed.

PRESENTATION OF CRITICAL INFORMATION IN YOUR OWN ENVIRONMENT

Enrich reality with valuable data available from complex systems.
By blending the real and virtual worlds, your tablet, PC, or Smartphone can provide a wide variety of information in the precise geographical position where your intervention is required.

INTEGRATION, PROCESSING AND VISUALIZATION OF DATA.

Our solution integrates data from the various information silos that exist within a company (CRM, ERP, CMS, CAD-CAM). These data elements are displayed with precision by mobile devices.

BENEFITS:

· Obtaining all necessary data directly in the installation with your mobile device.

· Facilitating access to different levels of information detail.

· Time savings in the search for information.

· Access personalized information for each level of responsibility.

· Improve the response times in case of any eventuality.

· Obtain filtered data according to the physical position of user.

APPLICATIONS:

· Maintenance of industrial plants.

· Verification of production processes.

· Guided visits to facilities.

· Detection of service indicators.

· Technical assistance.

SOLUTIONS

PLANNING AND DEVELOPMENT

IMPROVING PRODUCTS AND FACILITIES

The integration of Augmented Reality technology between standard industrial measurement systems and mobile devices will allow you to simplify and accelerate the planning of installations and the development of products.

Augmented Reality allows the early detection of errors and the progressive replacement of physical prototypes by virtual prototypes.

BENEFITS:

· Visual verification of possible failures.

· Early detection of construction or design.

· Reduction or elimination of the need for physical prototypes.

· Visual information related to the environment of the installation.

· Reliable basis for decision making.

· Analysis based on real proportions.

APPLICATIONS:

· Determination and comparison of deviations in the development of a project.

· Visualization of simulations of results (test / error).

· Analysis of manufacturing quality.

· Evaluation of design alternatives.

· Planning of machinery designs and operational spaces.

· Proof of planning alternatives.

· Preview construction site preparation.

DESIGN PLANNING

The application of Augmented Reality in the planning of machine designs and operational spaces will allow early detection of failures, reducing planning time and costs.

CHECKING DESIGNS

Immediately detects design errors allowing evaluation of alternatives and visualize the results by simulation.

ANALYSIS OF DEVIATIONS

Make visual checks and controls more quickly, identifying potential sources of error, and allowing reduce or eliminate the need to create physical prototypes.

RADIO 72°

ÁNGULO 17,3°

SOLUTIONS

REMOTE ASSISTANCE

REAL-TIME SOLUTIONS

Get online advice anywhere, no matter the distance through our remote assistance solution.

There are situations in equipment maintenance or repair processes that, due to their complexity, only an expert is capable of solving.

Only remote access to the images that the operator is viewing and sending through their smartglasses allow the expert to interpret the technical problem and offer an immediate solution, which will be communicated in real time.

BENEFITS:

- Remote audiovisual access from anywhere.
- Operator follows on-screen instructions through smartglasses, allowing for hands-free manioulation.
- Reinforcement of the indications with technical support content.
- Specialized technical assistance.
- Incident Reporting.

APPLICATIONS:

- Maintenance and repair of complex systems.
- Access to maintenance instructions in remote places.

PROJETS

IMPACT ON YOUR PRESENTATIONS

Through our Augmented Reality solutions, present projects in a dynamic and innovative way.

Augmented Reality technology will make your presentations more impactful, integrating graphics, videos and 3D images into your plans, diagrams or catalogs.

HOLOGRAPHIC PRESENTATION

Transform your PowerPoint presentations into powerful holographic presentations.

This technology allows the simulation of holograms interacting with the speaker in the presentation with animated 3D elements, text, video and images.

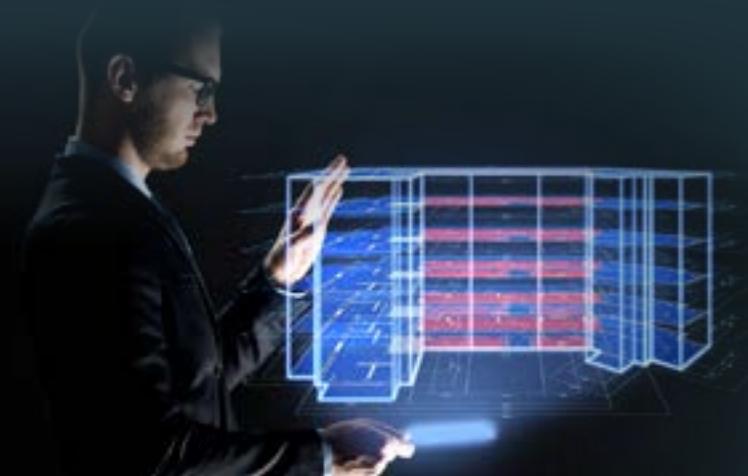### ENGINEERING PROJECTS , INFRASTRUCTURES, ARCHITECTURE, PRODUCTS, PROTOTYPES

The technology of Augmented Reality allows you to present virtual images of products or prototypes in real size and in their original location to get a better understanding of their functionality.

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BENEFITS:

· Possibility of presenting different finishing options.

· Presentations in real size in the place of development of the project.

· Facilitate decision making and modifications.

APPLICATIONS:

· Architecture and construction.

· Engineering and infrastructure.

· Urban planning.

· Industrial engineering.

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