

space for your success®

virtual reality



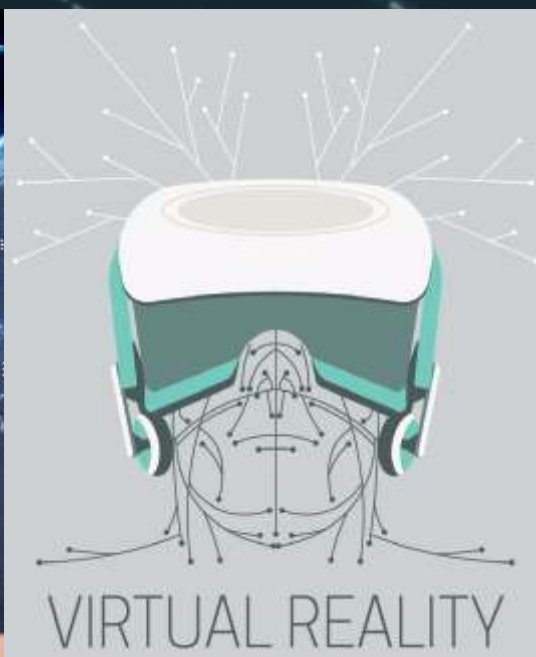
...WINDOW
TO NEW
WORLD...

INDUSTRY | AUTOMOTIVE | PETROCHEMISTRY - OIL



WHAT YOU GET

- Trainings of new and current employees
- Reduction of production costs
- Avoidance of know-how loss
- Simulation of crises situations and accidents
- Reduction of working accident risk
- Visualization of inaccessible parts of technology
- Visualization of inaccessible parts of technology
- Optimalization and higher efficiency of production process



Characteristics

REAL LOCATION INDEPENDENCE

All defined usages are independent from real world location of the given technology. In case of diagnostics of the first level for example an expert from the second part can immediately see the required information and help with solving a critical problem in real time.

DIFFERENTIABILITY

Simulation can be changed towards currently „real“ technology in accordance with your needs. In case of investment changing character of technology, it is possible to change simulation model in advance sufficiently before new machines are put into operation. Staff can prepare for new procedures in advance and save time significantly.

COLLECTIVITY

In virtual reality it is possible to connect several users into one cooperative group, where users have possibility of mutual visual and audio communication. This advantage is related to an advantage of real location independence.

EVALUATION IN REAL TIME

Every completed act of a user is evaluated then and its output is registered into the accessible database. The output is determined for increase of environment ergonomics, modification of procedures on the basis of time values and statistics on the level of training personnel.

TIME DISCREPANCY

For visualization needs it is possible to slow the scene down up to perceivable speed to enable perception of the particular actions of the machine, or vice-versa.

For your disposal there is also a function of arbitrary looking through the process by the means of time axis.

MONITORING

The cooperative solution offers a possibility of external monitoring of several users through implemented monitoring from the view of a third person or instruction directly in VR environment.

Practical usage of virtual reality:

TRAININGS OF NEW STAFF

Training mode leads the beginning operators and maintenance men of production units to the right implementation of the technological procedure.

CRISES SCENARIO

Virtual reality enables simulation of crises status, which is not possible to induce during productive running, or by no means. Those are various accidents of situations. Such events can be prevented by the right and early reaction trained in virtual environment.

DIAGNOSTICS OF FIRST LEVEL

Virtual reality can be an advantage also in case of a real failure of equipment which is not accessible immediately (for example because of safety reasons). Technicians can perform the first level of evaluation and identify the arose situation and then suggest procedures, tools and accessories.

MARKETING TOOL

VR is an excellent tool for presentation of a company and increase of potencial employees interest. Attractive and modern presentation will attract also potential business partners.

LIVE DIAGNOSTICS WITH A ROBOT

In case of a combination of a mobil robot or drone with a set of 360 grade cameras with VR glasses there is possibility of a more effective inspection of an inaccessible technological part by easier camera systems instead of a demanding rotation work. The users will only

simply turn the head to the necessary direction.

DIGITAL TWIN

By mounting an adequate number of sensing devices it is possible to transmit entire status of the technology into virtual environment. All changes, movements of people, status of storage houses can be visualized.

VISUALIZATION „around an ANGLE“

An excellent quality of VR is that it enables modeling and visualization of enclosed or inaccessible parts of technology which are not accessible during productive running. Visualization of internal technological connections is able to increase effectivity of trainings by the means of properly set training scenario. It will enable „view“ into the particular machine.

CONTACTS

sféra, a.s., Karadžičova 2, 811 08 Bratislava

www.sfera.sk
 Tel. č.: +421 (2) 5021 3142
 E-mail: obchod@sfera.sk

MORE INFORMATION

