

# Software for remote Science & Engineering boards and training in VR



Software for collaboration with digital twins based on CAD or BIM models in virtual reality.

## Features:

- Collaboration via secure channels;
- Wired VR headsets support;
- Import without converting 3D, CAD, or BIM data;
- More than 40 supported formats: STEP, IFC, DWG, RVT, DGN, DWF, JT, 3DXML, 3DM, and others.
- The combination of 3D models from different CAD, BIM, CAE, CAM systems;
- Creating animated, interactive 3D scenes;
- Usage of the CAD core;
- User avatars
- Support of Russian operating systems;
- Own flexible 3D/VR engine

## Required equipment :

**PC + Microsoft Windows Mixed Reality headset**

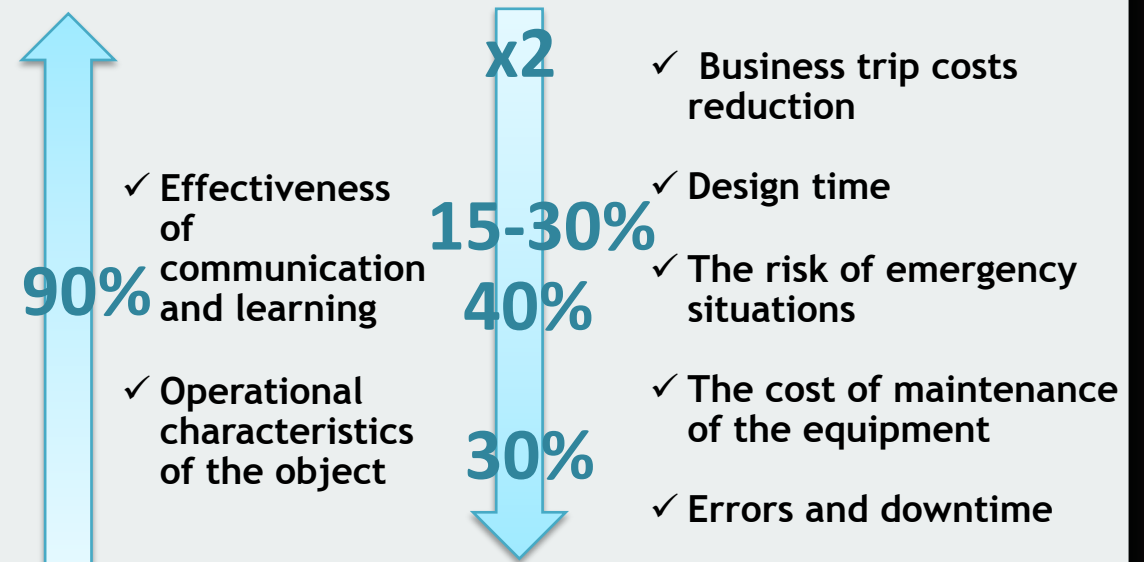
Minimum PC requirements for working with a model of about 5000 elements: Intel Core i7, 16 Gb, Nvidia Geforce GTX 1070, a harddisk drive of 200 Gb or similar characteristics from other vendors

Recommended PC requirements for working with a model of about 30,000 elements: Intel Xeon, 32GB DDR4 2666, NVIDIA Quadro RTX 4000, SSD from 200 Gb or similar characteristics from other vendors

## Capability of VR Concept :

- ✓ Discussion of a 1:1 scale virtual mockup based on 3D drawings (CAD)
- ✓ Swift loading of 3D models in VR without programming
- ✓ Remote collaboration in VR
- ✓ Checking ergonomics on a virtual mockup
- ✓ Getting a virtual experience without risks for health
- ✓ Interaction with virtual objects: moving objects, cross sections, measurements, notes, animation of the workflow, object library, drawing

## Result:



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**Valery Tolstov, chief executive officer of Innovation Development Center STM:**

"VR Concept software proved its effectiveness during the industrial operation. The solution is rapidly developing, and VR Concept team bears in mind all customer preferences, suggestions and proposals planning the next software update. I recommend VR Concept for virtual product prototyping."



**Anton Beskhodamy, chief strategic planning officer in Gazprom Neft:**

"Information Technology Service Company (subsidiary of JSC Gazprom Neft) uses VR Concept software to organize VR meetings between different offices, hold mock commissions, and check and verify the data from designers. We look into the possibility of scaling the solution to other departments of Gazprom Neft."



**Andrey Naumov, head of Department of Research in BSTU named after V.G.Shukhov :**

"We use the software for educational and demonstration purposes, it helps us to achieve a great success. With the help of VR Concept, we could demonstrate our 3D models of buildings, constructions and engineering systems. Our university has already held five open house events, four outreach events, three meetings of the interdepartmental working group with the Department of construction and transport of the regional administration."

