

## **Introduction**

The modern world is constantly moving in front of us. Every day, progress is getting faster and faster. The reality around us changes with us. The ways of studying this reality are also changing. Modern technologies help us to literally be in the past, to go further in the study of history.

By adding new channels of sensory influence, we enrich the perception of a person, making their picture of the world the most complete. So, our application, literally, allows you to find yourself in a world in which a person has never been before, allows you to feel more vividly all that happened in the past.

## **Researches**

In addition to all other things, it opens up new opportunities for imprinting.

Interacting with a new environment triggers more areas of brain memory recording than simply observing a familiar environment, such as a room in your home. This confirms the old saying about memory: "we remember [about] 10 percent of what we read, 20 percent of what we hear, 30 percent of what we see, 50 percent of what we see and hear and 80 percent of what we personally experience".

Scientific research in the fields of neuroscience and psychology has revealed that our brain creates a mental map of an environment from information that is absorbed through the five senses.

The information subsequently becomes our perception of reality and the more information we take on-board the more our cognition develops. When we see something that is familiar, the brain predicts what will happen next.

However, when the brain does not have any practical experience of a situation, what prediction will it make? The reaction will be based on information that is stored in the memory.

## **Brain complications**

VR has the ability to rewire the brain and enhance neural connections that are needed for learning and memory. In a simulated environment, the brain is seeing and doing exactly what is required – it is not filling in the gaps.

One of the most significant attributes of VR is the ability to prompt emotional reactions. Because the brain believes that a VR simulation is a real-life situation, the emotional reactions, that are triggered, heighten the user's capacity for learning.

VR simulations are enhanced to be interactive so that users get more attracted. Essentially, immersive learning optimises the efficiency of training and enhances the learning experience.

With the ability to transport students and trainees into real-life situations without any risks, science has shown VR has to be the way forward for educational institutions and industry.

**Therefore**, using VR in our case allows us to significantly enrich the environment of our client and use the latest technologies that increase the complexity of the brain.