

Rot STUDIO
Realization of Things



TOSYALI
HOLDİNG



CASE STUDY

**TOSYALI
HOLDING**

Tosyalı Holding Leads the Iron and Steel Industry with its On-Site Trainings, Designed on the "RoT STUDIO Virtual Reality" Platform

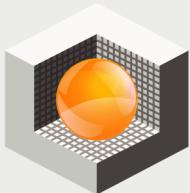
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TOSYALI HOLDING

Tosyalı Holding Leads the Iron and Steel Industry with its On-Site Trainings, Designed on the "RoT STUDIO Virtual Reality" Platform



OVERVIEW

Iron and steel industry, the backbone of today's economic sector, combine many processes and technologies to produce high qualified and value-added products. Therefore, sustainable vocational trainings and workplace safety are key factors for a more qualified workforce.

Thanks to RoT STUDIO Virtual Reality solutions, Tosyalı Holding has initiated the virtual reality field trainings in Turkish iron and steel industry, where the practice is not yet widespread.



Industry

Iron & Steel Production



Customer

Tosyalı Holding, Training and R&D departments



Challenge

Enabling on-site trainings without stopping the operations at the high-tonnage production lines



Solution

RoT STUDIO License - Trainer Module



Result

Tosyalı Holding launched its Virtual Reality training platform, a groundbreaking internal training development in Turkey's iron and steel industry. With the easy modeling and designing features of the solution, 2 training modules were developed for 2 facilities in the first place and 17 sessions were held.

VIRTUAL REALITY NEEDS IN FIELD TRAINING

Placing occupational health and workplace safety at the center of its responsible and sustainable production understanding, Tosyalı Holding, the global green steel company, outlines the field workforce training strategy around **3 objectives**:

1. Maintaining Occupational Health and Safety

Minimizing the risks in possible instantaneous incidents in the field.

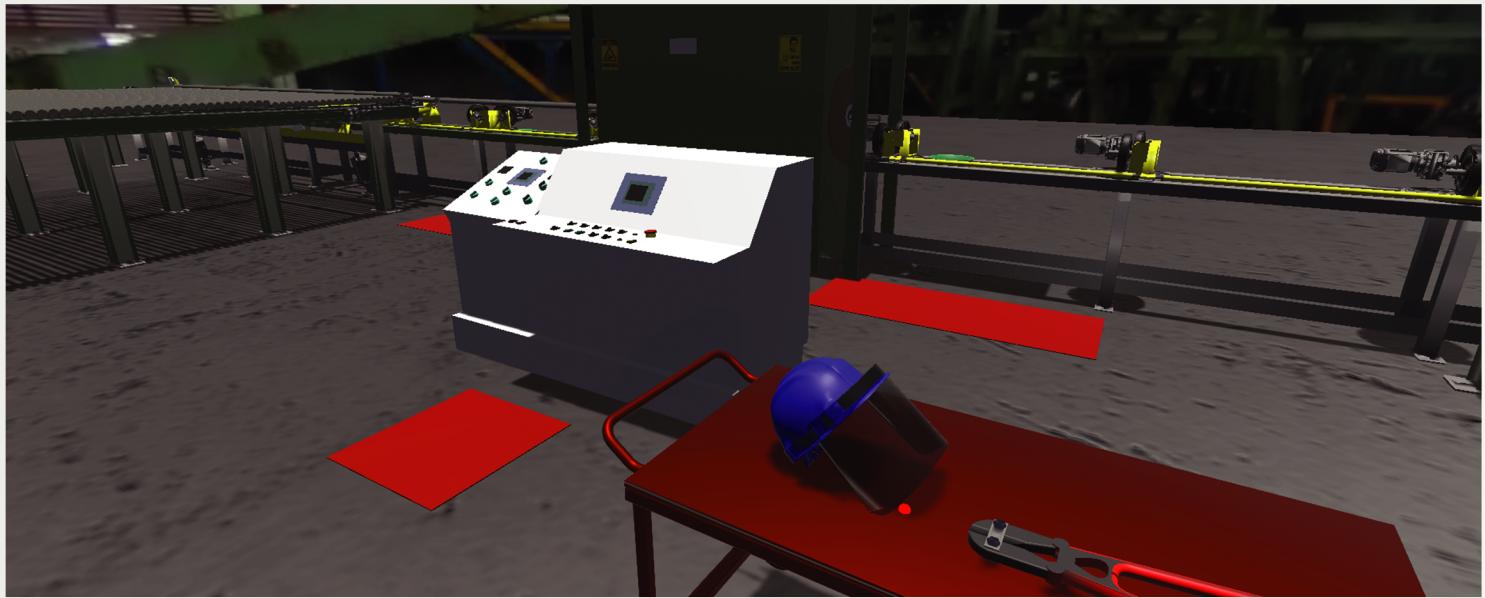
2. Training Processes Which Do Not Interrupt the Production Lines

Ensuring that field trainings do not cause interruption of production at the high tonnage production lines.

3. Professional Refresher Trainings

Preventing possible "on-site blindness" of the experienced field employees.



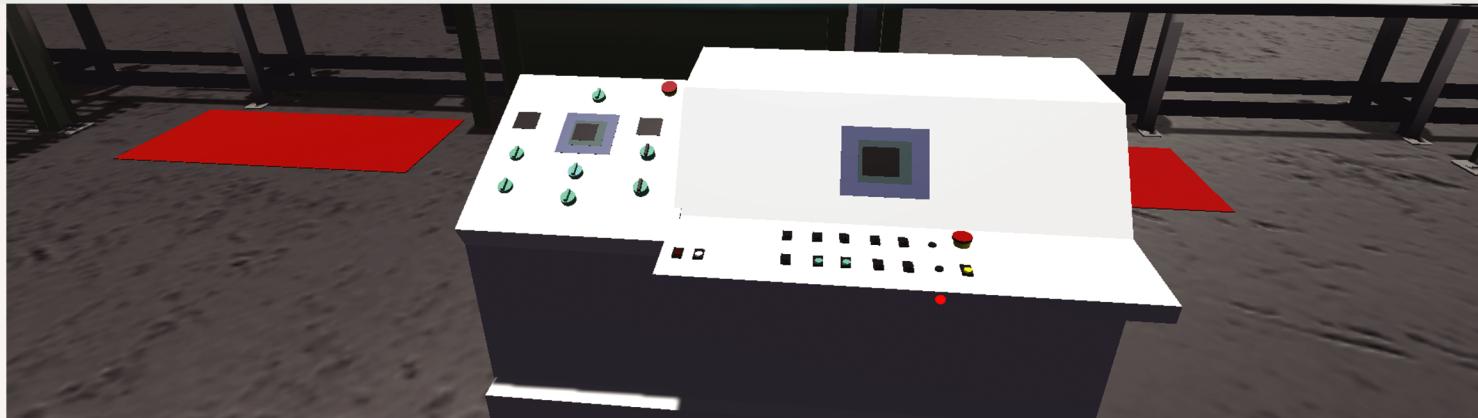


EASY-TO-DESIGN VIRTUAL REALITY TRAININGS WITH RoT STUDIO TRAINER MODULE

Within the scope of the Virtual Reality in Training project, developed jointly by R&D and Education teams during the plant constructions in early 2020, a Virtual Reality room was built. For the training of the qualified field workforce, RoT STUDIO Virtual Reality platform solution was preferred. About the RoT STUDIO Trainer Module, the project team at Tosyali Holding stated that it:

- ✓ Provides an easy creation of line-specific scenarios in vocational trainings besides standart training packages
- ✓ Enables quick and easy design of field training modules by using 3D CAD and visualization modules
- ✓ Offers any need for coding knowledge

The team also underlines the role of the solution-oriented communication skills of the RoT STUDIO team in the realization of the project.



SOLUTION

RoT STUDIO - TRAINER MODULE

By leveraging RoT STUDIO's easy-to-use training design tools, Tosyali Holding developed customized, scenario-based training modules specific to its industrial operations. Employees can now experience virtual replicas of their work environments, allowing them to practice safety procedures, refresh their professional skills, and familiarize themselves with complex processes, all without the constraints of traditional on-site training methods.

With collaborative VR capabilities, interactive learning scenarios, and hands-on simulation experiences, Tosyali Holding has successfully enhanced worker safety, reduced training costs, and improved workforce efficiency. This groundbreaking initiative marks a first in Turkey's iron and steel industry, setting a new standard for sustainable, technology-driven workforce training.

RESULTS OF VR-BASED PRODUCTION LINE

“How could you build exactly the same environment of mine over a computing platform?”



The first phase of the trainings, developed on the RoT STUDIO platform, were held in 17 sessions in the flat steel and pipe production facilities in July 2022



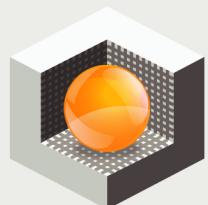
Vocational trainings have been given over RoT STUDIO Virtual Reality platform without interrupting the production, risking workplace safety and traveling to another location



Tosyalı Holding, aiming at sustainability in training, plans to develop more training modules on the platform.

The operators who attended the trainings with Virtual Reality glasses were not familiar with the virtual reality environment. Upon experiencing a very realistic visual of their work environment, one of them expressed his astonishment as:

“How could you build exactly the same environment of mine over a computing platform?”



RoT STUDIO
Realization of Things

RoT STUDIO is Turkey's first local Virtual Reality (VR) and Extended Reality (XR) content and training development platform. It has been working globally for more than 20 years for its customers to create their own virtual reality content in an easy, fast, accurate and collaborative way.

ADVANTAGES OF RoT STUDIO

RoT STUDIO License consists of 2 modules:
RoT Designer, RoT Trainer

- ✓ Collaboration of the development teams, found in different locations on the same data in the same virtual scene
- ✓ Visualization of shared data and interactive collaboration
- ✓ Ability to take measurements and sections within the scene
- ✓ Avatar representation of the participants
- ✓ Voice chat in the scene
- ✓ Acceleration of decision-making processes
- ✓ Reduced need for physical prototypes

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