



RoT STUDIO
Realization of Things

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

At-a-glance

Industry: Iron and Steel production

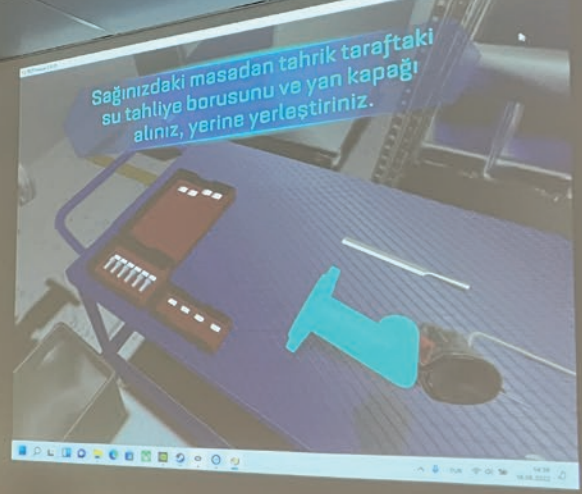
Customer: Tosyalı Holding, Training and R&D departments

Company Size: With its 30 facilities in 3 continents, more than 7 thousand products, approximately 15 thousand employees and annual steel production capacity of 6 million tons, Tosyalı Holding ranked 83rd worldwide in 2021.

Customer's Challenge: Enabling on-site trainings without stopping the operations at the high-tonnage production lines

Solution: RoT STUDIO – 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.



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.

Virtual Reality Needs in Field Trainings

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.

At Tosyalı Holding, besides standard training packages, line-specific scenarios in vocational trainings are created flexibly with the RoT Trainer module. The project team states that the RoT STUDIO platform has almost perfect features which enable them design the field training modules quickly and easily by using 3D CAD and visualization models without even the need for coding knowledge. The team also underlines the role of the solution-oriented communication skills of the RoT team in the realization of the project.



“Our industry leader customers, such as Tosyalı Holding can mitigate their workplace health and safety risks with RoT STUDIO's flexible modules and expedite their employee onboarding process successfully. They can also reduce the costs resulting from production breaks during trainings.”

- Selda BAĞDAT BAHADIR
RoT STUDIO Managing Partner

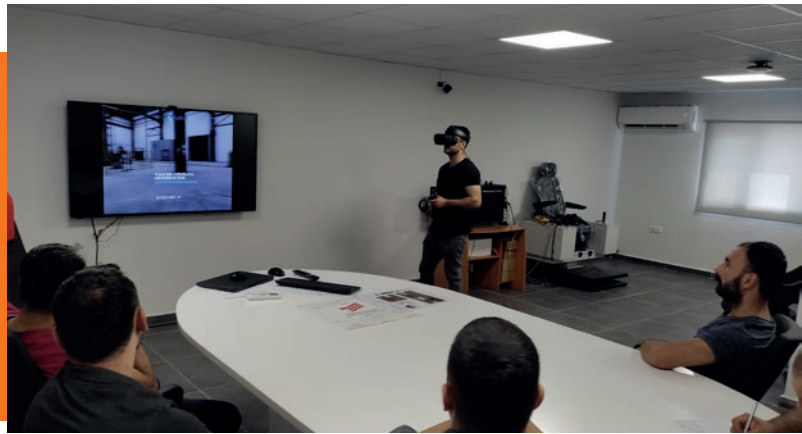


Results

“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. Since then, 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.

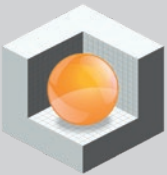
The operators who attended the trainings with Virtual Reality glasses were not familiar with the virtual reality environment. Upon experiencing a very realistic visual of their work environment, one of them expressed his astonishment as *“How could you build exactly the same environment of mine over a computing platform?”*



Rot STUDIO Product Family is consisted of 3 modules: RoT Designer, RoT Trainer ve RoT Ergonomics

Advantages of RoT STUDIO Solutions:

- 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
- Reducing the need for physical prototypes



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

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