

RoT STUDIO
Realization of Things



CASE STUDY

FORD OTOSAN ROMANIA

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ASSEMBLY LINES GET
READY INTO “ELECTRIC
FUTURE” WITH RoT STUDIO’S
VIRTUAL REALITY TRAINING
SOLUTIONS

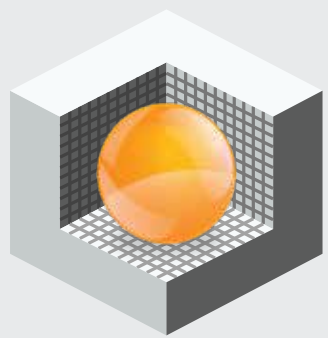
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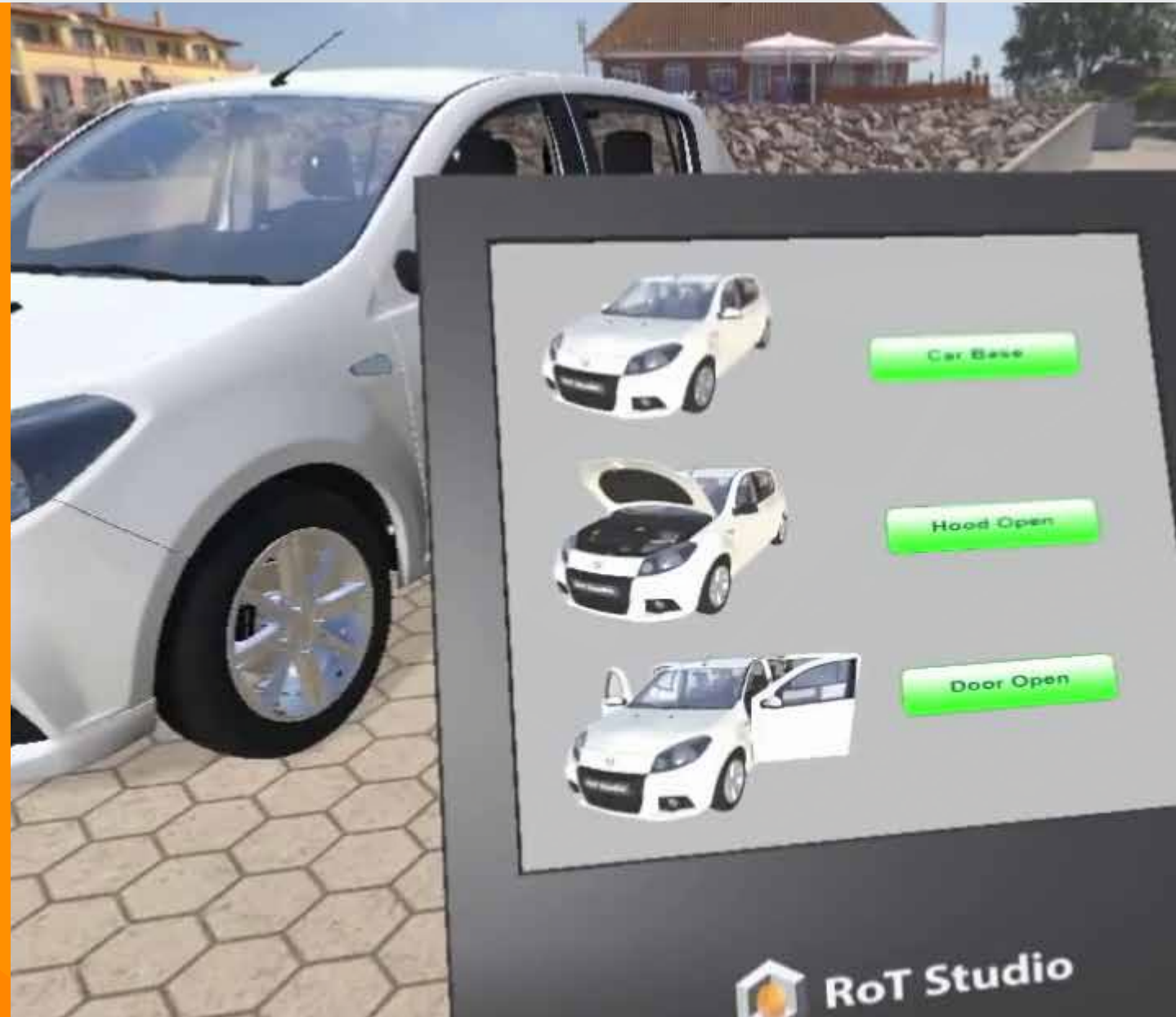


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FORD OTOSAN ROMANIA

Ford Otosan Romania Assembly Lines Get Ready into “Electric Future” with RoT STUDIO’s Virtual Reality Training Solutions



OVERVIEW

Ford Otosan Romania partnered with RoT STUDIO to implement VR training, equipping assembly workers with practical EV manufacturing skills while enhancing productivity, safety, and adaptability.



Industry

Automotive manufacturing



Customer

Ford Otosan Romania – Producing Ford’s best-selling European passenger and commercial vehicles at the Craiova facility and will start building all electric versions in 2024



Challenge

The facility needs to transform its assembly training operations to ramp up mass production of the new models in the most effective way



Solution

RoT STUDIO - Trainer Module



Result

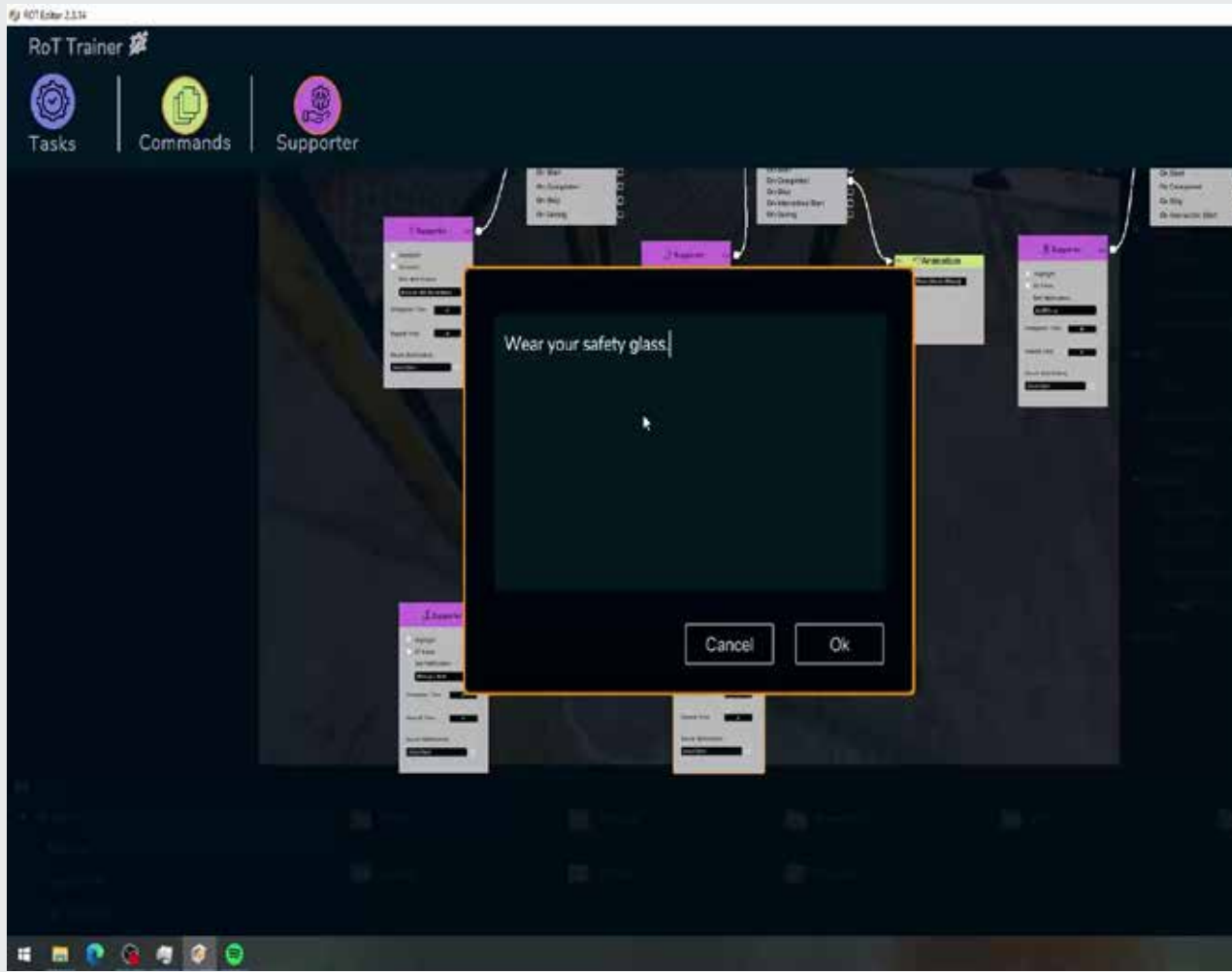
210 training sessions were delivered in the first 2,5 months with RoT STUDIO Trainer module.

TRANSFORMING VEHICLE ASSEMBLING TRAINING WITH VIRTUAL REALITY

Introducing a new model to the production line and prepare the workforce to build new models on assembly lines are common challenges in the industry. Ford Romania was aiming to ensure that the assembly workforce improves their understanding of the assembly processes of the new models in the most effective way. Therefore, the company decided to transform the assembly training environment from physical methods to faster and more flexible 3D Virtual Reality platforms to;

- ✓ Stay competitive
- ✓ Meet changing demands and regulations
- ✓ Maintain customer interest and loyalty

To support and improve the performance of assembly line operations, No code “Trainer” module of RoT STUDIO Virtual Reality platform solution was preferred. With the easy modeling and designing features of the RoT STUDIO Trainer module, 210 training sessions were delivered in the first 2,5 months.



SOLUTION

Easy-to-design Solution: RoT STUDIO Trainer Module

A holistic, virtual 3D model of the assembly line was prepared on the no code RoT STUDIO Trainer module. The company virtually recreated every assembly procedure and step through RoT Trainer module.

RoT Trainer module offers:

- ✓ Three-dimensional space to the trainees
- ✓ Real assembly environment
- ✓ Step-by-step guide for operators
- ✓ Exact arrangement of machines, shelves, tools
- ✓ Special virtual reality glasses

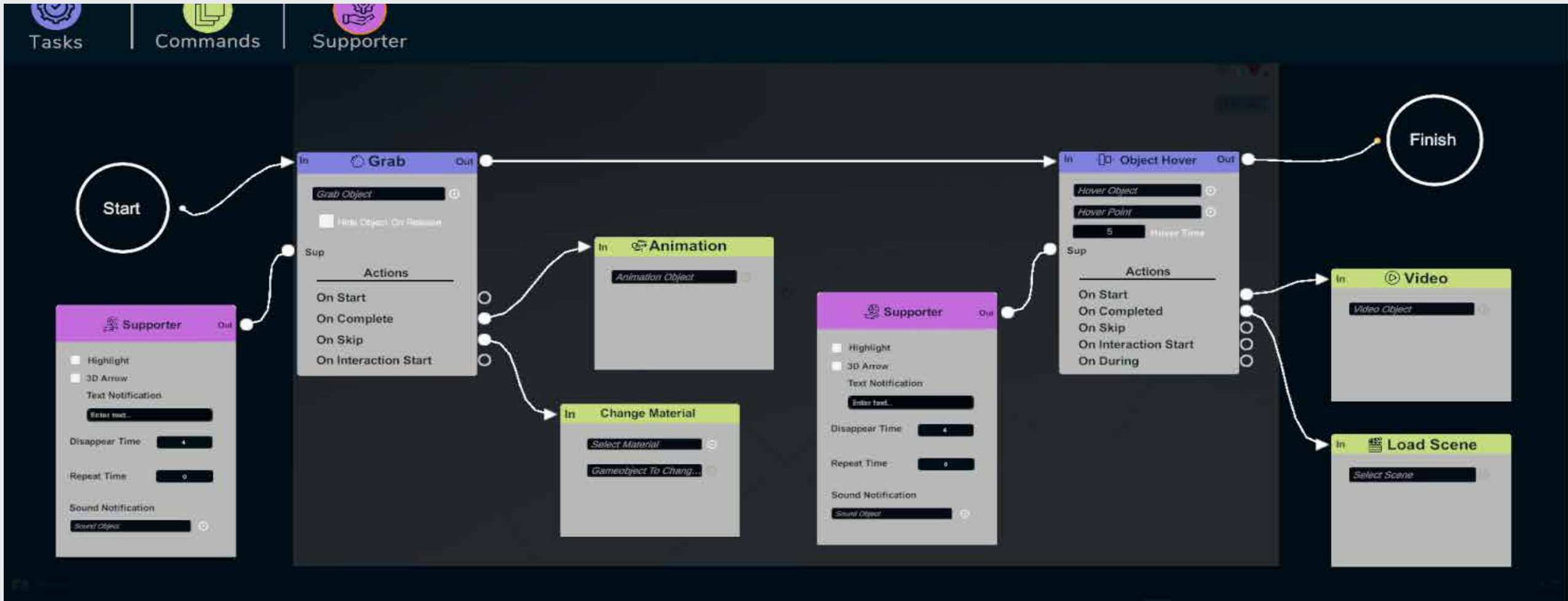
VR glasses are utilized to simulate the assembly process, ensuring the operators become proficient with each process. The assembly operators practice assembling vehicles with full sequence, parts, and tools, following each instruction on the training module. The trainees can repeat all assembly and fitting actions as many times as necessary to make them familiar with all procedures and tasks.

Ford Otosan Romania trainings team in Craiova facility states that the RoT STUDIO platform has great features which assist them to design the assembly line training modules quickly and easily without any coding. The team also underlines the solution-focus of the RoT team during the deployment of the platform.

“

Our Craiova facility is improving its assembly line operations through Virtual Reality based trainings, with the support of RoT STUDIO Trainer module. Instead of having one vehicle and train few assembly operators at once, RoT STUDIO Trainer module has allowed us to train more operators virtually on any stage of the assembly process. It gives us more flexibility, efficiency, and focus, while shortening the time to improve the overall assembly process.

Ford Otosan Romania Team



RESULTS OF VR-BASED ASSEMBLY TRAINING

210 training sessions, developed on the Rot STUDIO platform, were held in the first 2,5 months of deployment. As easily configured training modules of RoT STUDIO enable creation of new teaching programs, Ford Otosan Romania plans to design more training modules on the platform for upcoming new models and versions.



More controlled, effective, and safer assembly training environment without any physical vehicle or prototype



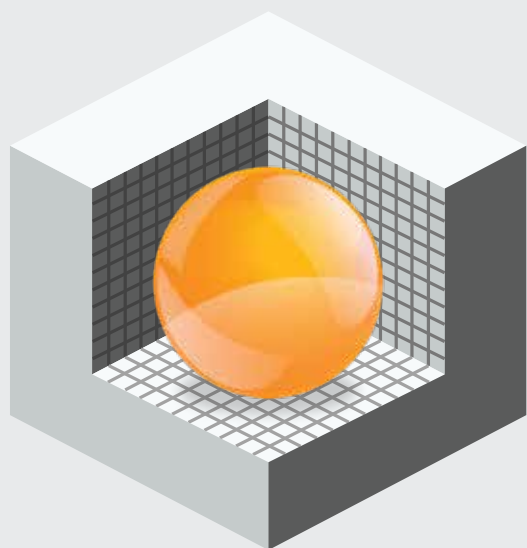
Known process by the assembly operators before they get to the actual vehicles



Significantly less critical errors in assembly steps



Reduced occupational on-site injuries



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

ADVANTAGES OF RoT STUDIO

RoT STUDIO Product Family 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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