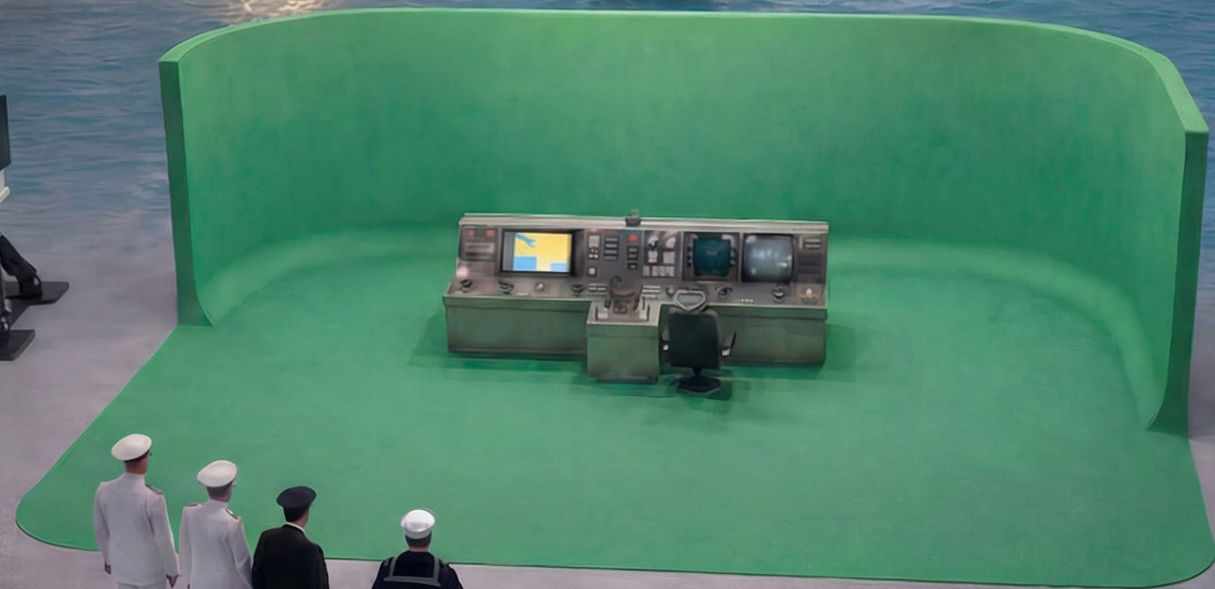


MISSION  
READINESS

JUNOSIS  
SIMULATION & AI TECHNOLOGIES



**VISION**

To become a global leader in AI-powered simulation technologies for critical operations.

**MISSION**

To enable institutions to deliver safer, more efficient, and measurable training by integrating real hardware components, immersive visual environments, and intelligent software infrastructure.

**AI & Simulation for Mission-Critical Operations.**



OUR GROUP COMPANIES



One of Turkey's leading telecom field operations providers

End-to-end services for Vodafone, Turkcell, and TurkNet

Data, security, and low-current solutions for public and critical infrastructure projects

2014  
Establishment



**AI-Powered Automation** of Airport Operations

**A-FOD:** World's most advanced **FOD Detection Platform**

Deployed at **IST and 7 European airports**

2015  
Establishment



**AI & XR-powered simulator training projects** for organizations such as TGS, Havaş, Pegasus in aviation, and ADIK, HAVELSAN, TUSAŞ in the defense industry

Active engagement with **10+ countries**

2023  
Establishment



A Germany-based **telecommunications consulting** company

Fiberkent/Çatı's European **hub office**

The first concrete step in the group's European expansion strategy

2024  
Procurement



Licensed Internet Service Provider (ISP) and Infrastructure Operator

Telecom services via its own infrastructure, including Fiber to the Home (FTTH), and intercity and international fiber optic networks

2024  
Establishment

## WHO ARE WE?

Junosis is a technology company specialized in simulation and artificial intelligence technologies. It develops high-fidelity, advanced simulation systems for the defense, aviation, and transportation sectors.

By integrating real vehicle components, advanced motion platforms, and intelligent software infrastructure, Junosis delivers solutions that enhance operational readiness.

Junosis transforms training into an experience and simulation into measurable performance improvement.

## WHAT DO WE DO?

Junosis designs and manufactures AI-powered simulation systems for land, air, and military platforms.

## OUR SOLUTIONS

- High-fidelity physics engines and dynamic driving models.
- Scenario-based training infrastructure.
- Real-time performance analysis.
- AI-driven feedback and reporting systems.
- LMS and enterprise integration infrastructures.

Our simulation technologies enable organizations to operate safer, more efficiently, and with higher readiness.





## Ümit Yaşar KARADENİZ

FOUNDER / CEO

Ümit Yaşar Karadeniz graduated from the Middle East Technical University and completed his master's degree in Informatics at METU.

He began his career in academia and later held senior executive positions within Çukurova Holding. During this period, he served as General Manager of TOPAZ, Board Member at ARTRON Defense, Board Member at HOBİM, Chairman of the Board at TARS, and Board Member at Baytur (Saudi Arabia).

He currently serves as CEO of Junosis Technology Inc., while also holding the position of Chairman of the Board at Çatı Teknoloji, Argos AI, and Eurofaser GmbH.

Actively involved in the defense industry ecosystem, Karadeniz served at SAHA Istanbul as a Committee Chairman for 3 years and as a Board Member for 2 years. He also took part in the SAHA Initiative Executive Board and, as of 2026, continues to serve as a Member of the SAHA Istanbul Board of Directors.

He leads Junosis with the vision of transforming it into a global player in AI-powered operational readiness technologies.

*“Simulation is no longer a support element, it is a fundamental component of operational readiness.”*



## Asım ŞENYUVA

FOUNDER / CTO

Asım Şenyuva is a graduate of Computer Engineering from Çankaya University. He has over 15 years of experience in hardware and software design and production within the field of simulation technologies.

He specializes in simulation software, hardware systems, and electromechanical system design processes.



He has led the development of powerful simulation software and hardware adaptable to various simulator platforms, and has conducted extensive work on serious games as well as virtual and mixed reality-based training solutions.

Throughout his career, he has delivered 40+ simulators to over 10 countries, led the production of 300+ driver training simulators nationwide, and played an active role in the completion of 3 TÜBİTAK R&D projects.

### MODEL S

Fixed steel support platform  
3-panel wide-angle display system



### MODEL IM

3-panel wide-angle display system  
Multi-axis motion platform



### MODEL ADV

U-shaped wide projection screen  
Multi-axis motion platform



### MODEL ADV+

Acoustically and visually isolated cabin  
Integrated projection system  
Multi-axis motion platform



### MODEL XR

Extended Reality (XR) support  
360° virtual environment creation  
Multi-axis motion platform



## AI-POWERED SIMULATION AND SOFTWARE CAPABILITIES

Junosis develops AI-powered simulation and decision support technologies for defense and mission-critical operational environments. This platform integrates training, maintenance, mission planning, and operational decision-making processes under a unified intelligent architecture.

### AI-POWERED SIMULATOR

*Reduces the workload on instructors.*

### AI-ASSISTED MAINTENANCE SYSTEM

*Provides cost-effective, safe, and repeatable training.*

### AI-BASED NATURAL LANGUAGE & VOICE SOLUTIONS

*Enables voice-driven interaction through AI.*

### AI TRAINING SYSTEMS

*Transforms training into scalable and standardized processes.*

### AI-DRIVEN PERFORMANCE & RISK ANALYSIS

*Converts training into measurable operational outcomes.*

### AI-POWERED DECISION SUPPORT SYSTEMS & DIGITAL TWIN

*Transforms AI into an operational advisory tool.*



## SIMULATOR AND XR/VR TRAINING PLATFORMS

### Military

- Amphibious LCT 159 landing craft simulator with motion integration.
- Land vehicle simulators.
- VR-based maintenance and training simulators for land, sea, and air platforms.
- Aviation training simulator (IFTD).



### Automotive

- Truck simulator.
- Bus simulator.
- Passenger car simulator.
- Tow truck training simulators.



# LAND VEHICLE SIMULATORS

The Land Vehicle Simulator is designed to enable military personnel to operate modern vehicle platforms in a safe and realistic training environment. Through real vehicle controls, immersive visuals, and advanced motion systems, users experience driving, mission, and operational scenarios without risk.

Integrated training modules, performance analysis, and feedback mechanisms enhance personnel readiness and operational effectiveness.

## FEATURES

- **Real Vehicle Controls**  
Provides a one-to-one control experience with steering, pedals, and turret systems.
- **6 DOF Motion Platform**  
Physically replicates terrain and operational conditions.
- **Immersive Visuals**  
Urban, rural, and combat scenario environments.
- **AI-Powered Analysis**  
Real-time performance measurement and feedback.
- **Team Training**  
Combined training for commander, driver, and gunner roles.
- **Instructor Station**  
Remote control, monitoring, and reporting.



# AMPHIBIOUS-OPERATIONS-COMPATIBLE LCT 159 LANDING CRAFT SIMULATOR

The LCT Simulator provides Naval Forces personnel with a realistic, repeatable, and measurable training environment for bridge operations on the LCT platform, including navigation, communication, radar usage, and amphibious landing planning.

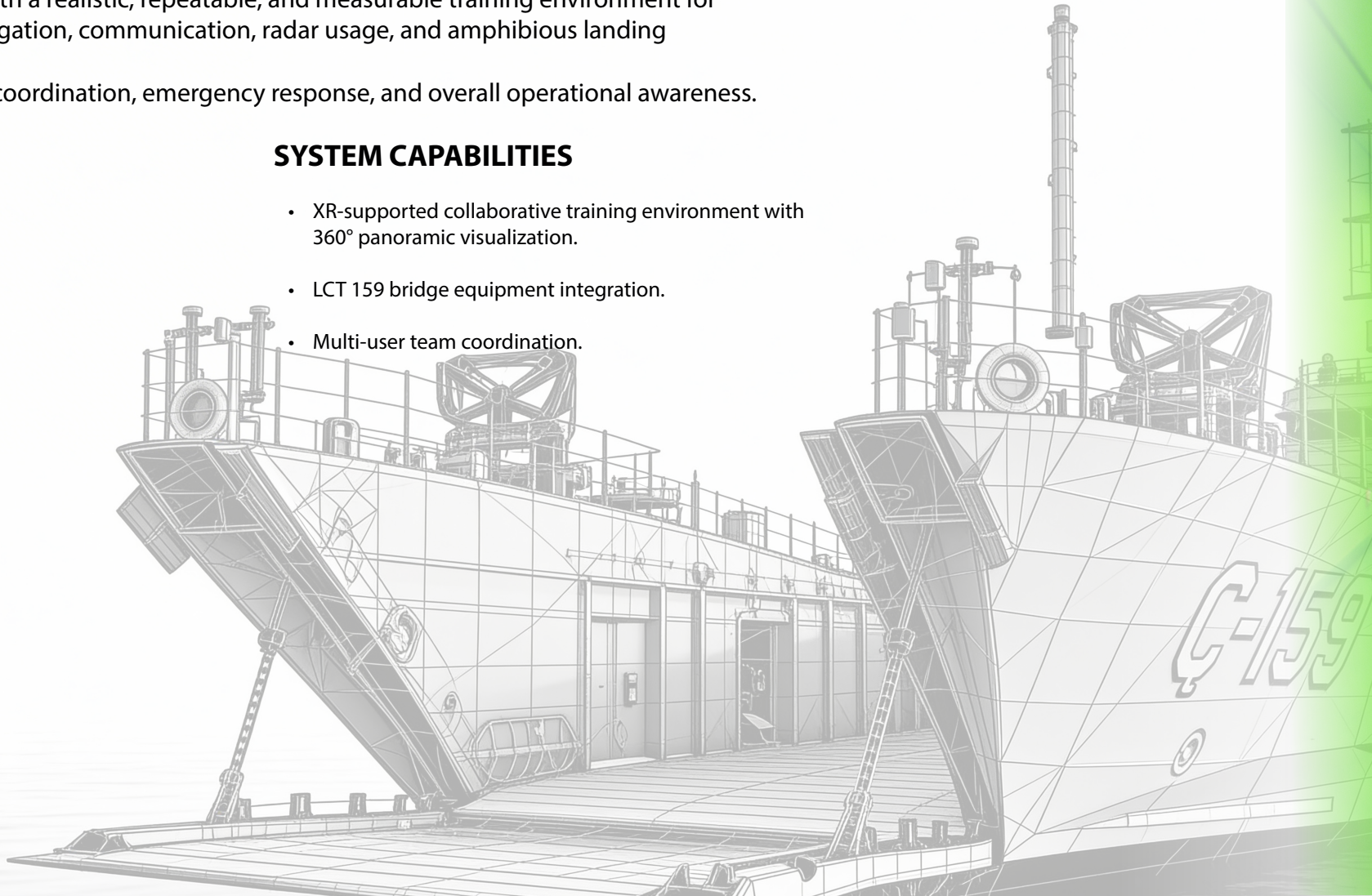
The system is designed to enhance decision-making, coordination, emergency response, and overall operational awareness.

## FEATURES

- Navigation, seamanship, emergency procedures, and amphibious operation scenarios.
- Multi-user operation with up to 4 personnel (Instructor + Vessel Commander + Navigation Officer + Helmsma).
- AI Instructor trained specifically for navigation and amphibious operations.
- AI-driven performance analysis, tracking, and guidance.
- Team coordination within a shared virtual environment.
- Real-time maritime motion modeling.
- Radar and navigation console interaction.
- Scenario control including fault injection, event triggering, and post-mission reporting.
- Instructor control and scenario management.
- Dynamic weather conditions, sea state, and day/night cycles.
- Integrated voice and communication simulation.

## SYSTEM CAPABILITIES

- XR-supported collaborative training environment with 360° panoramic visualization.
- LCT 159 bridge equipment integration.
- Multi-user team coordination.



# VR MAINTENANCE WORKSHOP

The VR Maintenance Workshop is an advanced training solution that enables maintenance, repair, and emergency intervention processes for land, naval, aviation platforms, and industrial systems to be performed within a virtual reality environment.

Using highly accurate, real-scale models of engines, subsystems, and components, users can safely perform disassembly, fault diagnosis, part replacement, and procedural operations in a controlled environment.

By combining physical maintenance processes with digital precision, the system enhances technical competency while reducing operational risks.

## ADVANTAGES

- **Safe Training Environment**  
High-risk maintenance operations can be performed without risking personnel safety or damaging real equipment.
- **Cost Efficiency**  
Minimizes the use of real engines, parts, and consumables. Repeated training incurs no additional cost.
- **Standardized Procedures**  
Ensures all users follow the same maintenance procedures with consistent quality and standards.
- **Error Analysis & Performance Tracking**  
User actions, process steps, and error rates can be measured and reported by the system.
- **Accelerated Skill Acquisition**  
Enables repetition in a virtual environment before real-world application, shortening the learning curve.
- **Multi-User Scenarios**  
Dozens of technicians can work simultaneously on different maintenance tasks at depot or classroom level.
- **Operational Readiness**  
Planned maintenance, failure scenarios, and emergency procedures can be tested before real operations.



# MOBILE SIMULATION UNIT

The Mobile Simulation Unit is a fully equipped training center integrated into a truck trailer, enabling simulation-based training to be delivered anywhere it is needed.

Designed for flexibility and mobility, this unit allows organizations to provide high-quality training directly on-site, reducing travel costs and maximizing accessibility. Equipped with climate control and instructor stations, the mobile unit offers a complete “classroom on wheels” solution.

## FEATURES

- **Fully Mobile Training Center**  
Integrated into truck trailers for nationwide deployment.
- **Multiple Simulator Configurations**  
Supports military, automotive, bus, heavy vehicle, and specialized equipment simulators.
- **Self-Sufficient Systems**  
Built-in power supply, climate control, and network infrastructure.
- **Plug & Play Deployment**  
Rapid setup and operational readiness at any training location.
- **Instructor & Trainee Facilities**  
Workstations, monitoring systems, and comfort features.

## APPLICATIONS

- **Remote Training Delivery**  
Simulators can be deployed directly to customer sites or remote locations.
- **Military & Defense Programs**  
Mobile setup for mission-specific operator training.
- **Corporate & Multi-Purpose Use**  
Efficient training for fleets without requiring travel.
- **Exhibitions & Demonstrations**  
Portable showcase for new simulation technologies.
- **Emergency & Disaster Training**  
Rapid deployment for crisis response training.



## AVIATION TRAINING SIMULATOR

The Immersive Flight Training Device (IFTD) represents a new generation of pilot training by combining Extended Reality (XR) with AI-driven learning systems. Designed to deliver highly realistic and adaptive training environments, IFTD enables pilots to safely experience complex flight operations in a controlled setting.

AI-powered performance tracking, adaptive scenarios, and intelligent feedback systems personalize training for each pilot, ensuring faster learning and improved retention. Immersive XR visuals and realistic cockpit interactions replicate real-world conditions, while the modular architecture allows seamless integration into existing training programs.

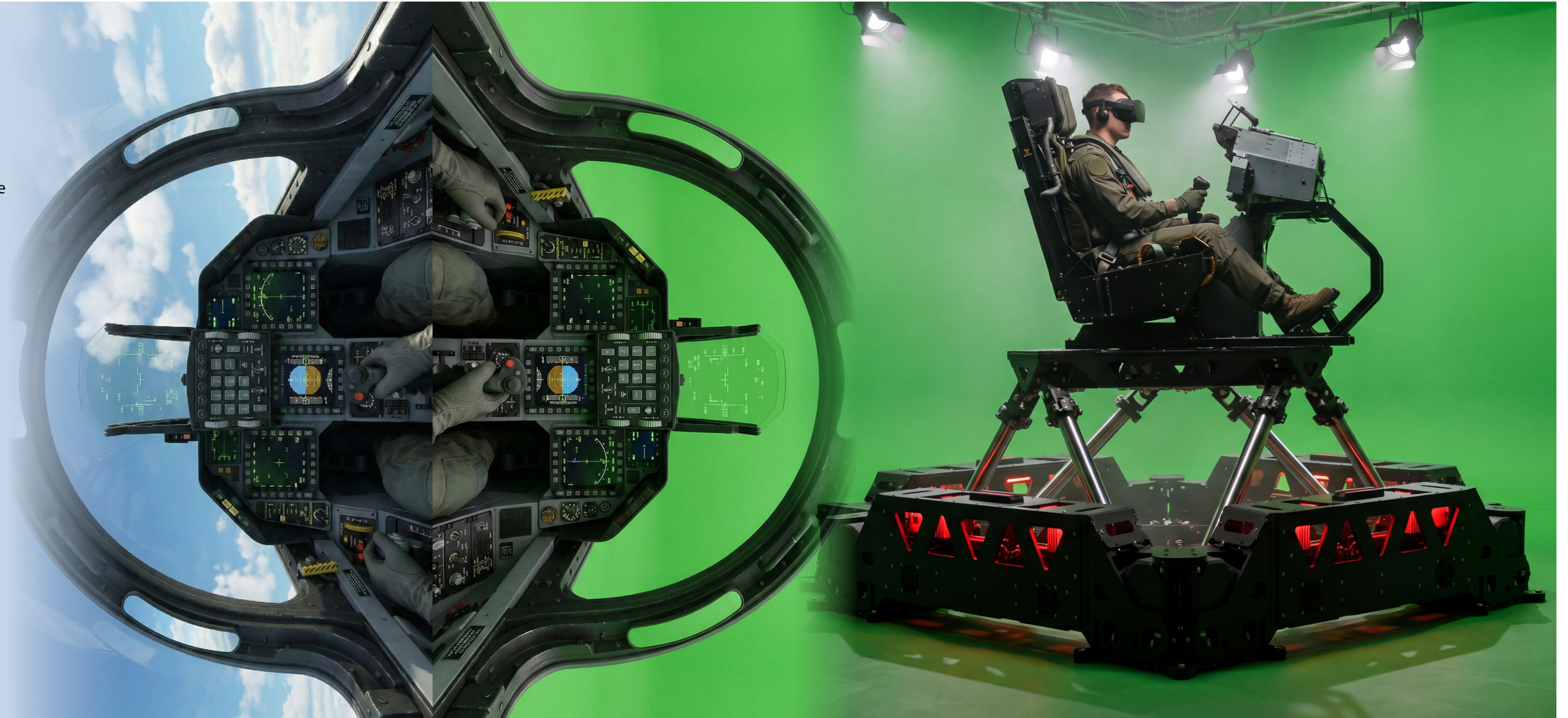
IFTD leads the transformation in rotary-wing training, delivering a cost-effective, scalable, and future-ready alternative beyond traditional simulators.

### FEATURES

- **AI-Powered Training Engine**  
Adaptive learning scenarios with real-time performance feedback.
- **Immersive XR Environment**  
High-resolution visuals and realistic cockpit interaction.
- **Cost-Effective & Scalable**  
Flexible integration for both civilian and military training programs.
- **Data-Driven Analytics**  
Intelligent reporting and detailed skill assessment for instructors.

### APPLICATIONS

- **Rotary-Wing Training**  
Repetitive and cost-efficient pilot training.
- **Military Aviation**  
Mission-oriented training with tactical and combat scenarios.
- **Emergency & Abnormal Procedures**  
Safe execution of rare but critical flight situations.



# ENGINE RUN-UP SIMULATOR

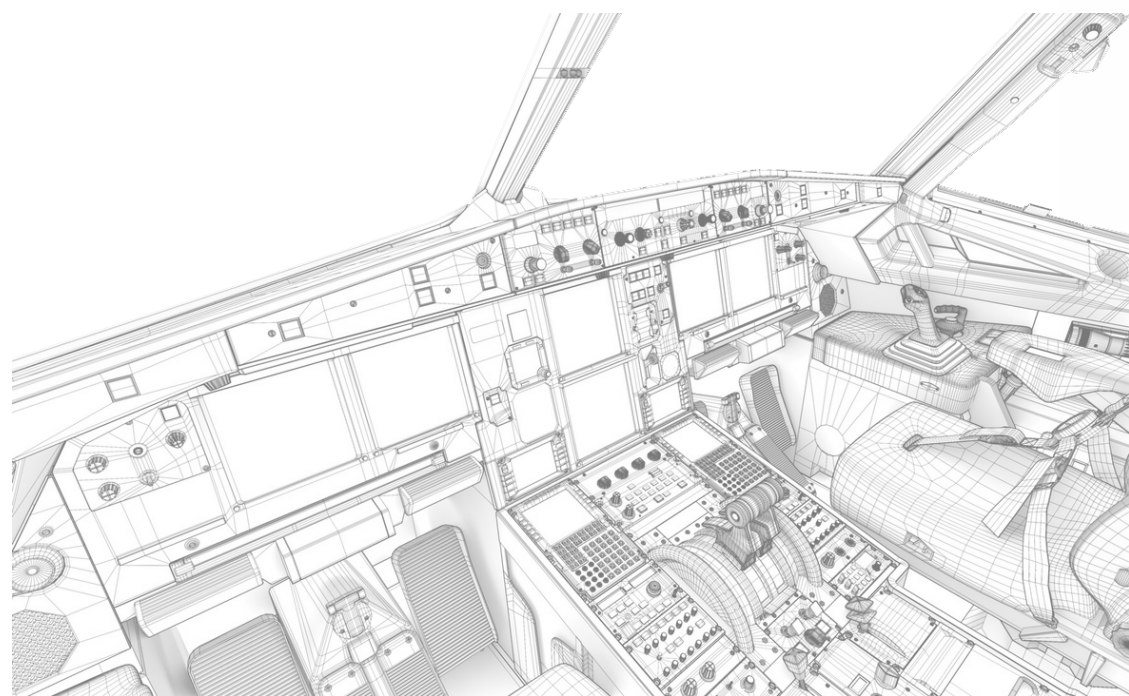
The Engine Run-Up Simulator is an advanced training and mission readiness solution designed to replicate engine start procedures of commercial aircraft within a virtual environment, in full operational accuracy, in accordance with EASA Part 147 training requirements. Users experience cockpit-based engine start procedures in real time. This system enables both pilots and maintenance personnel to perform run-up operations in a safe, controlled, and repeatable environment.

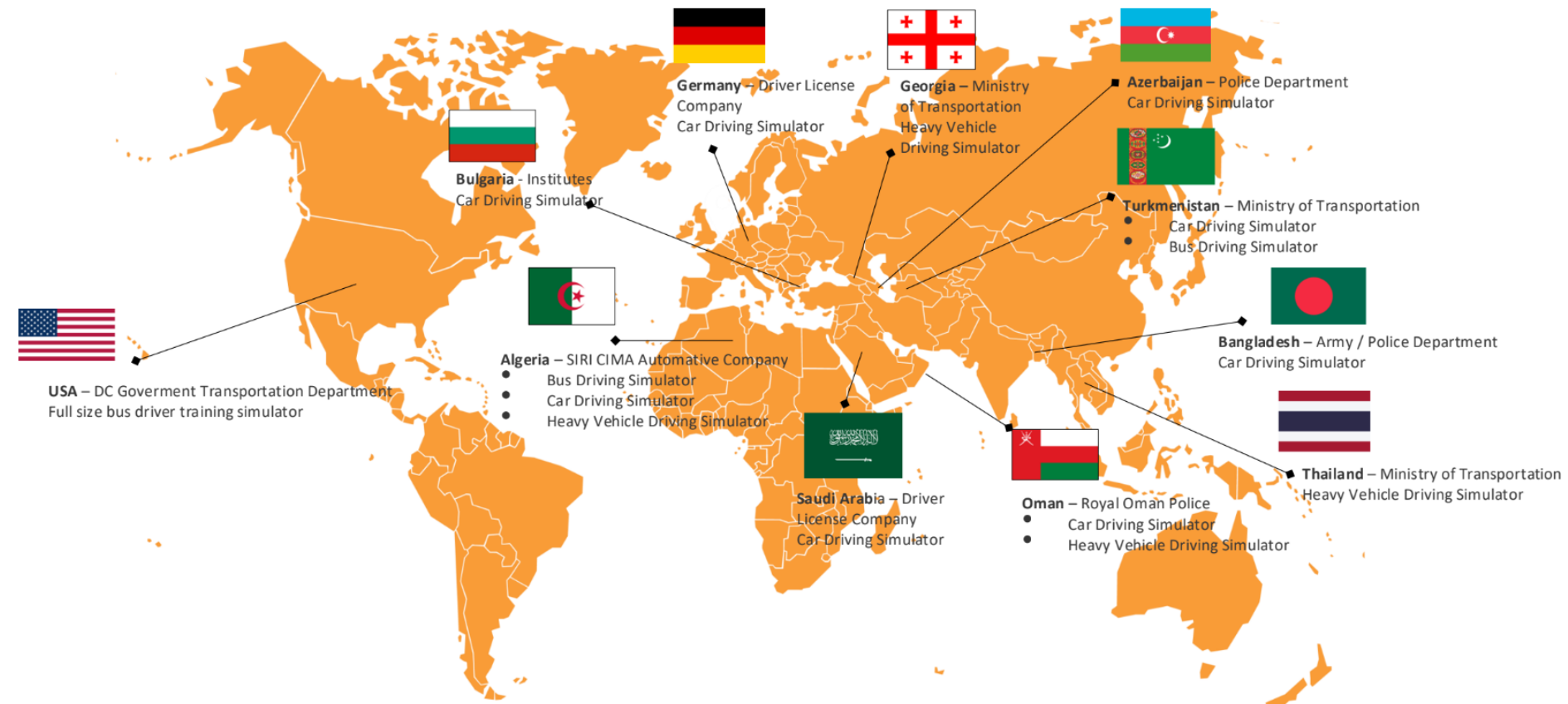
## FEATURES

- **Real Cockpit Visual Database**  
A320, B737, B777.
- **Visual System**  
Virtual Reality (VR).
- **Scenario-Based Training**  
Simultaneous procedural training for two trainees within the same environment.
- **Training Management System (LMS)**  
Converts training processes into measurable operational performance.
- **Instructor Control Station**  
Real-time monitoring, scenario customization, and performance reporting.

## APPLICATIONS

- **Airline Operators**  
Delivery of training in compliance with EASA Part 147 standards.





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# DEFENSE



# AVIATION



# TRANSPORTATION

