Dig in Vision®

VR enhanced tools for training of welders, NDT inspectors and procedure testing

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Stockholm, Sweden - 12th November 2026

Dig in Vision success stories on 3 continents

01



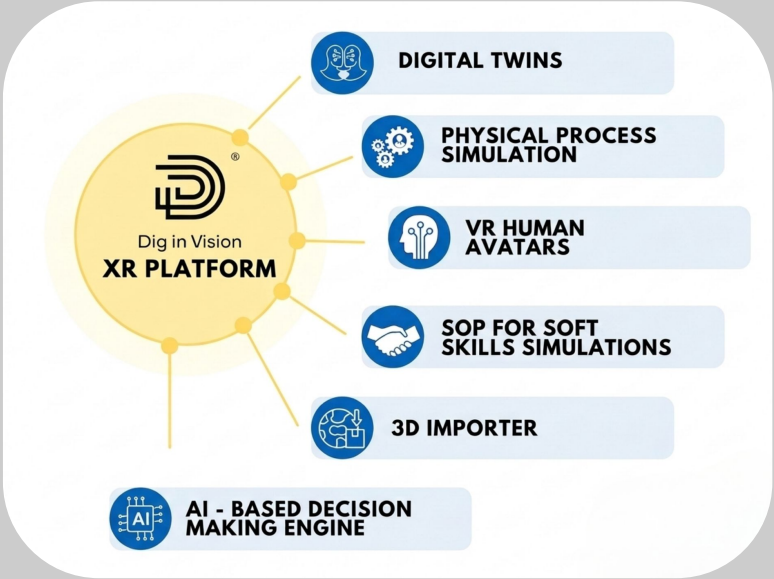
“**From Poland to Kenya and further**, our groundbreaking VR welding platform show how VR technology accelerates skills development, enhances safety, and connects local talent with the global job market”.

Who We Are

01

Dig in Vision designs, develops, and delivers advanced XR simulators for the metallurgy industry and vocational training centers that combine:

- Virtual and augmented reality capabilities, physical process simulations, and human-avatar interaction in a **single integrated platform** with global online access
- **Theory and hands-on training** in a fully immersive virtual environment - digital twins of real workspaces
- Efficient, modern, **stationary or mobile VR welding training without safety hazards and at a much lower cost.**



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Dig in Vision success
More than VR welding

01

VR welding impact

Thanks to its experience in the Kenyan market and deployments on 3 continents Dig In Vision has established itself as a provider of **VR welding solutions for metallurgy industry, universities and vocational schools**

Rollouts in Austria, France, UK, UAE, East Africa and in Poland with two major industrial zones (WSSE & KSSE), along with Naval Shipyard in Gdynia and West Pomerania Welding Cluster in Szczecin.



02.
VR welding platform

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02

Hardware supporting muscle memory





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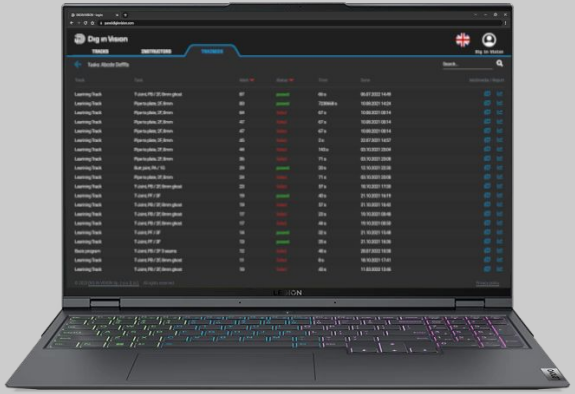
02

More than
VR welding training



Dig in Vision's VR welding simulator is a comprehensive virtual training platform that enables:

- Complete VR training for the welding industry and vocational training centers
- Full customization to meet the needs of specific industries, e.g. defense, shipbuilding
- Training for beginners as well as upskilling for experienced welders
- Theory and hands-on practice in fully immersive digital twins of real workspaces
- On-site or remote VR welding training without safety hazards and at a much lower cost



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02

Welding Methods
GMAW, MMA and TIG

We provide access to advanced, realistic simulations of the most popular welding methods, such as **GMAW, MMA and TIG** with dedicated adapters. Our top - class system ensures an immersive educational experience.





For the TIG method, an advanced calibration system enables the integration of a physical sample and faithful transfer of haptic experiences, allowing the torch to be rested on the welded sample.

02

ISO 9606 READY
VR Welding Academy



The Dig in Vision Welding Academy theoretical training covers

- method description,
- equipment operation,
- safety (HSE) rules,
- and parameter settings, including impact on the process and weld shape.

Get a VR welding certificate and work worldwide! Confirm your competencies in virtual reality and open doors to a career anywhere on Earth

Check out the VR Welding Academy! →

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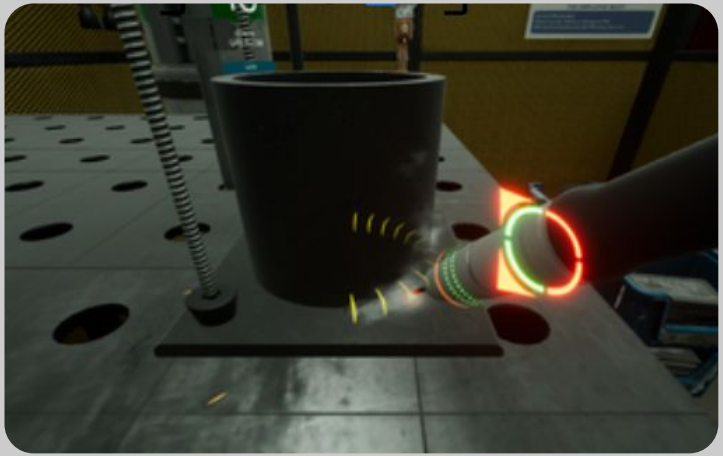
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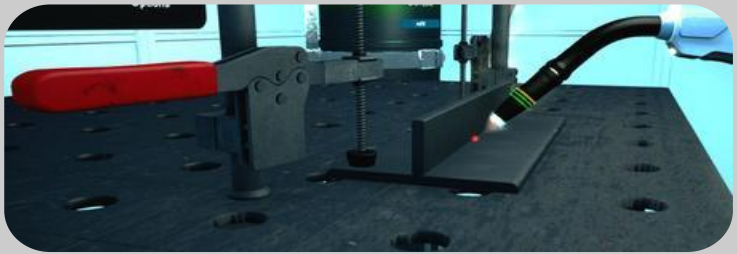
ISO 9606 READY
VR Welding Academy

The **VR assistant mode** provides real-time correction using visual indicators and simultaneous voice guidance.

Key metrics measured in real time:

- Travel speed
- Work & travel angles
- Contact-tip-to-work distance (stick-out)
- Aim / Path accuracy





[Check out the VR Welding Academy!](#)

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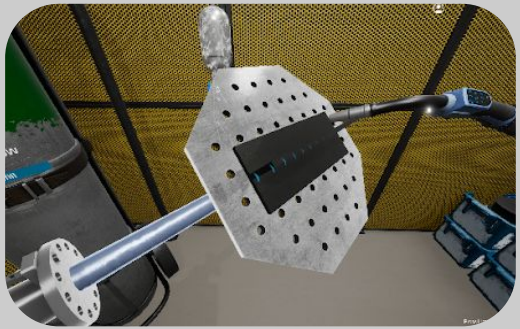
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02

ISO 9606 READY VR Welding Academy
Welding positions

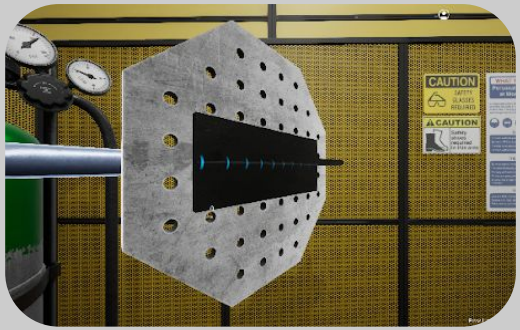
- Supports all **ISO 6947** and AWS welding positions
- Practice in comfortable, restricted, and forced positions
- Prepares trainees for real industrial scenarios



PA



PC



PF/PG

02

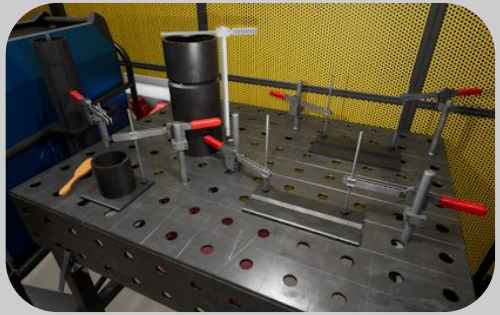
Standard and Advanced samples

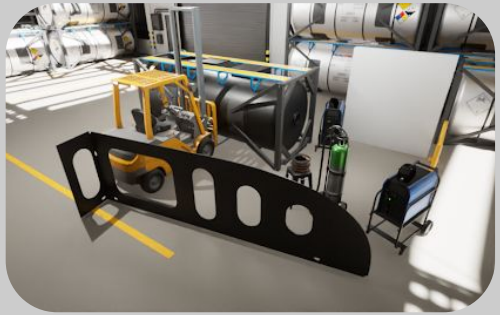
Standard

- Welding samples: T-joints, butt joints, plate-to-plate, pipe-to-pipe, tube-to-plate

Advanced

- Advanced samples: industrial models & custom client objects
- Compliance: all tasks follow WPS documentation
- Evaluation: graded for accuracy
- System: instant save to Online Management System





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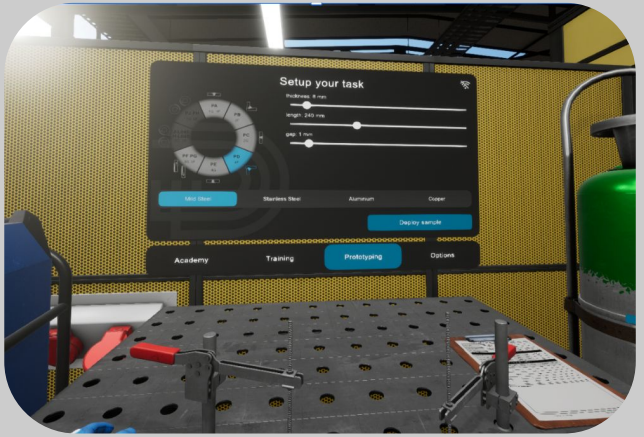
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Generative Advanced Samples & Custom WPS

Generative samples

- 7 basic shapes: configurable in any ISO welding position
- Full customization: adjustable thickness, length, and diameter
- Auto-guidance: weld location indicated automatically



Custom WPS

- Full control: configurable welding parameters per industry standards
- Flexibility: easy selection of shapes, positions, and joint types
- Accuracy: final evaluation directly tied to defined WPS

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Detailed Reports

The Dig in Vision VR welding simulator accurately measures physical parameters during training. Once the task is completed, a comprehensive trial report is generated.





- **Full physical analysis** of the completed exercise
- Summary score based on a **proprietary algorithm**
- **Weld Master AI** - a training assistant highlighting areas for improvement
- **Cloud-stored reports** accessible anytime, from any device

02

Custom
space and objects

- **Full Customization:** Tailored samples, objects, and complete workspaces.
- **Real-World Training:** Directly mirrors the welder's future job environment.
- **Better Preparation:** Maximizes readiness for actual daily duties.





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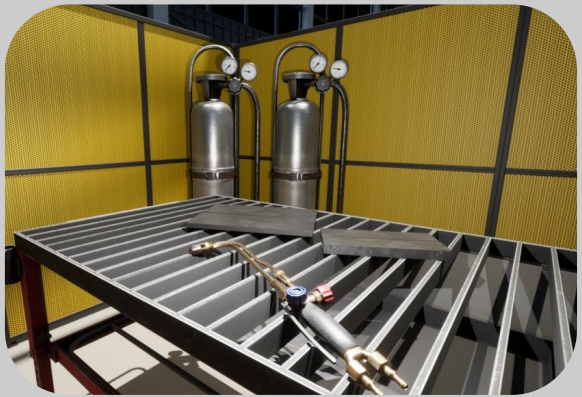
02

Plasma and gas cutting

Advanced Virtual Reality modules for oxy-fuel and plasma cutting training enable cost-free mastery of metal cutting techniques. The system precisely simulates flame and plasma arc dynamics, building the operator's manual confidence in a safe, digital environment - all without consuming expensive materials and gases.

Gas cutting

- Practice steel preheating, torch angle, flame regulation, and travel speed
- Build muscle memory **without burns, gas costs, or wasted sheet metal**



Plasma cutting

- Master electric arc control, nozzle distance, and torch maneuvering
- Practice complex cuts safely **without smoke or material waste**

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02

Handheld Laser Welding

Through **close cooperation with IPG Photonics**, we have precisely replicated their hardware, physics, and operating parameters.

- Laser welding module featuring a realistic replica of the IPG Photonics handheld torch.
- Safety Protocols: Full simulation of **interlock** loops and **emission start sequences.**
- VR Booth: Training takes place in a **dedicated booth,** protecting both the operator and bystanders.



02

Handheld Laser Welding

VR Laser welding training for IPG Photonics

Patent Pending: Technological advancements in laser welding haptics on our VR platform are the subject of a pending joint patent application, led by Dig in Vision's R&D department





VR laser welding:
https://youtu.be/9lHGkHj9NZ8

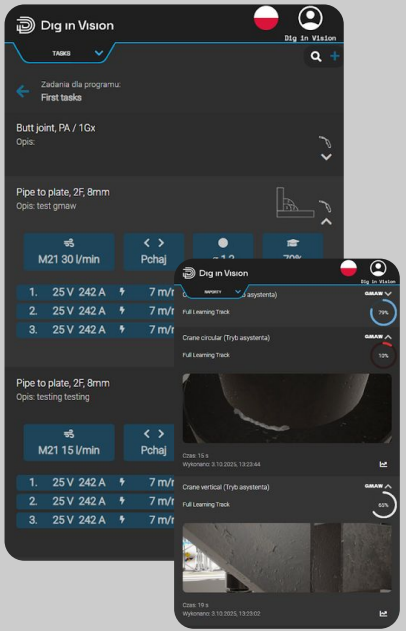
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02

Online Management System



- Cloud-based online management system accessible on PC, smartphone, or tablet
- Designed for Administrators, Instructors, and Students
- Unlimited access to progress tracking, reports, and digital certificates
- Remote management of users, training plans, objects, and results
- Combines VR welding with management tools for full control and efficiency

WebPanel

The system allows for **full personalization** of training paths, precise progress tracking, and easy generation of reports for certification or portfolio purposes.

03.
VR Prototyping

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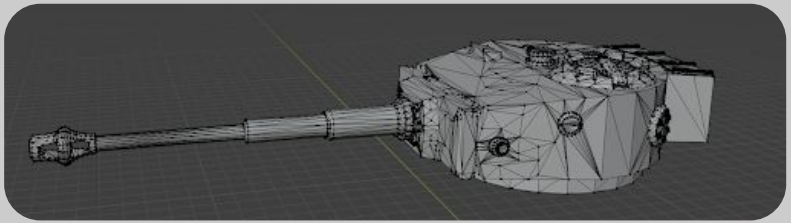
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Instant import of CAD projects into a VR production facility

Customized samples, as well as entire parts to be welded, may be prepared by the client's R&D team and imported to our VR welding center for training on specific welds and difficult welding positions.







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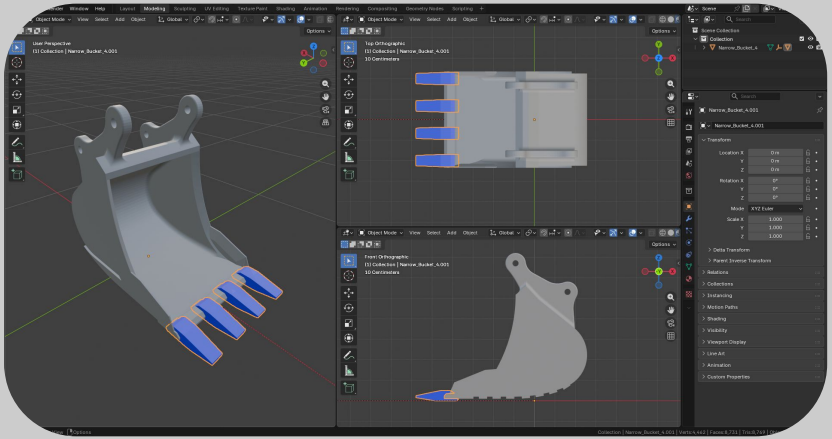
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VR Prototyping
3D or 3D CAD Software

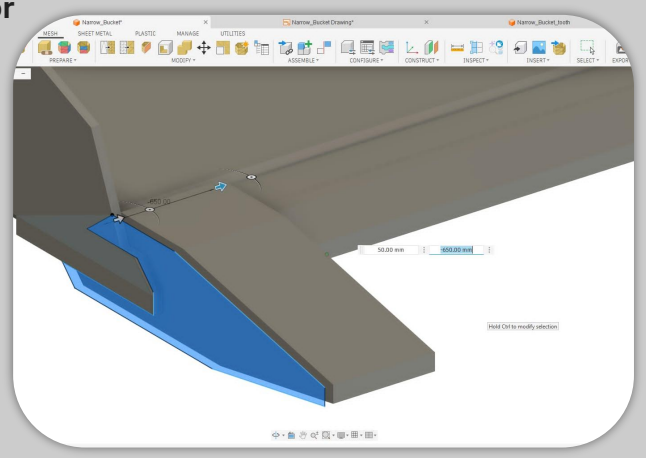
Visualizing and verifying the welding process requires orientation in the default 3D space and a sense of dimensions.

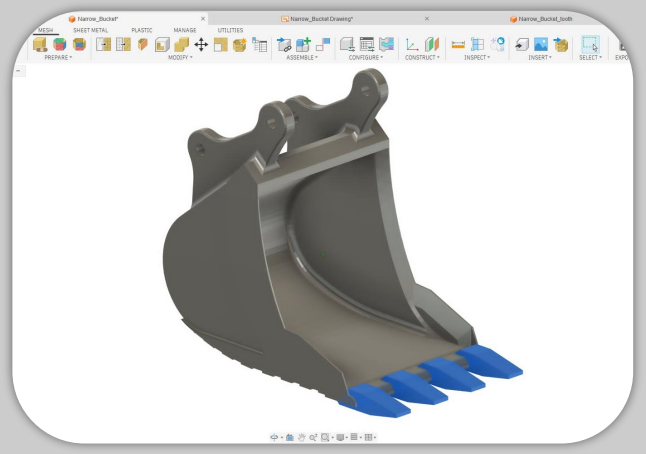


Preparing the model as input for the VR space. Export in a standard 3D format.

Not Immersive 3D

VR input model





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03

VR Prototyping
Importing CAD models to VR



- Universal Compatibility: Import models in all standard 3D formats.
- Rapid Iteration: Instant visualization and seamless re-import after CAD modifications.
- Total Immersion: Experience designs in full stereoscopic 3D.
- Spatial Context: Work within a practical, real-world reference space



Fully Immersive

Instant Real Scale Feedback

Very Intuitive

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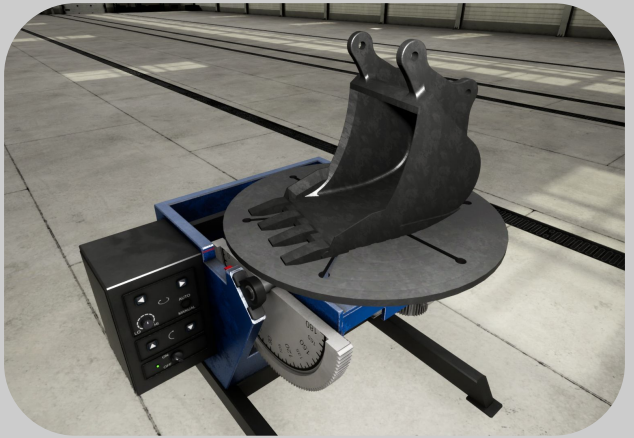
VR Prototyping
Positioning and process preparing

VR simulation provides an additional layer of preparation, ensuring the welding process is perfectly planned. Virtual tools enable free model positioning and allow users to verify accessibility for every part of the component.

Positioner Digital Twin



Easy Process Preparation

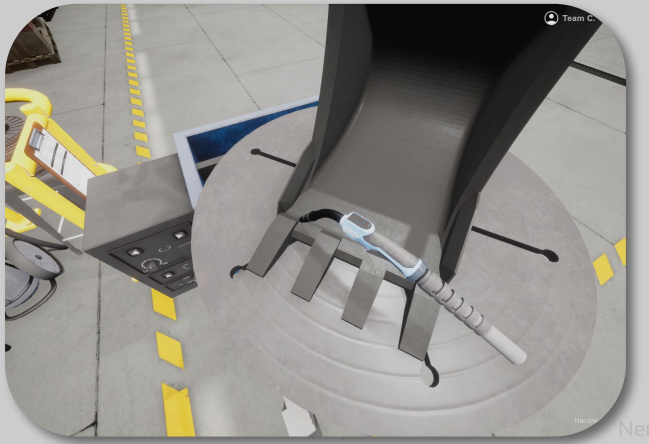


03

VR Prototyping
Simulation of process in VR

- The immersive nature of VR simulation allows users to perform the actual welding process in a realistic working environment
- Key design deficiencies are revealed in a natural way

Process simulation



Natural-like verification



03

VR Prototyping - bridging VR models & CAD

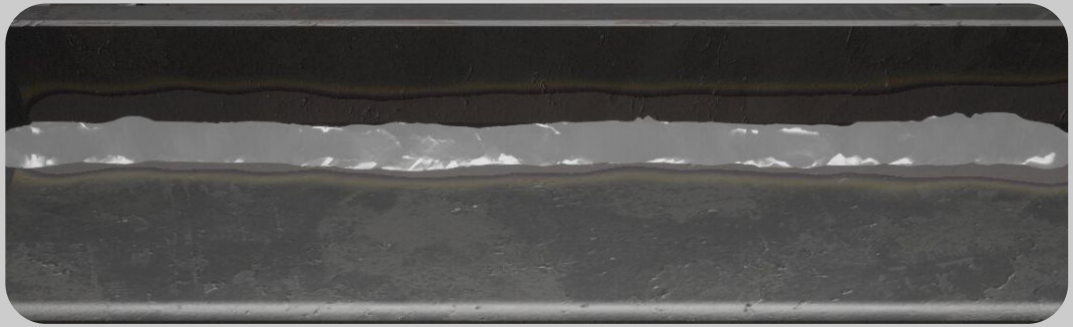
- **Seamless Integration**: Instantly transform virtual welds into industry-standard 3D models.
- **From VR to Production**: Export welding paths and beads directly from virtual reality.
- **Process Optimization:** Streamline workstation planning, assembly, and metal fabrication.
- **The Result: Where immersive training meets agile engineering**

Virtual Simulation

Secure Local Import

Cost & Time Optimization

Validated Samples Export



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VR Prototyping
Multisession verification

Visualization and verification can be performed in a multi-session

Users anywhere in the world can quickly discuss changes and make decisions directly in VR



Anytime, anywhere

Business friendly



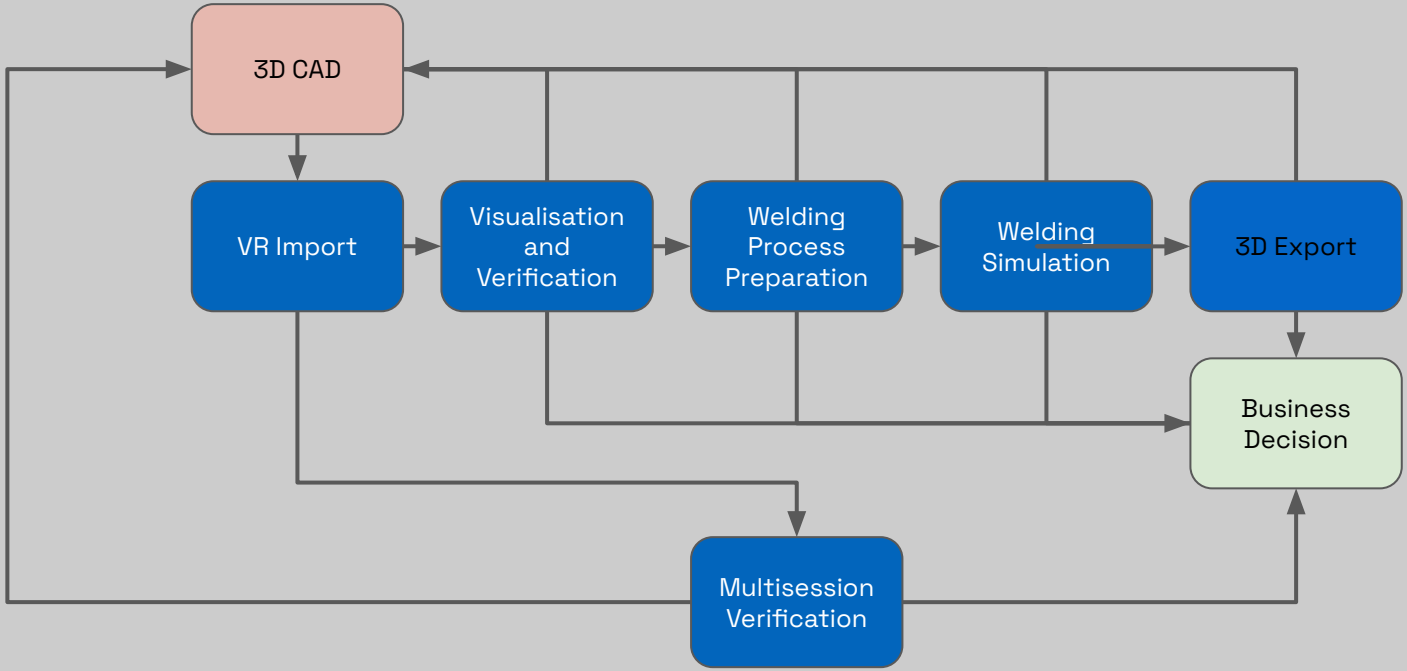
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VR Prototyping
Sample Full Feedback Loop



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04.
NDT simulations in VR

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04

NDT Simulator Development.
Visual Testing (VT)

Definition

Examination of the weld surface with the naked eye or optical aids, per ISO 17637 — the mandatory first step before any other method is applied.



How it works?

The trainee walks a full-scale digital twin, uses an in-hand flashlight and magnifying glass, and marks every indication found — porosity, cracks, undercut, misalignment.



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NDT Simulator Development.
Liquid Penetrant Testing (PT)

Definition

A capillary-action method (ISO 3452-1) that reveals surface-breaking discontinuities invisible to the naked eye.

How it works?

Full procedural chain simulated in VR: pre-cleaning, penetrant, enforced dwell time, excess removal, developer, interpretation — coverage measured pixel-by-pixel.



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04

NDT Simulator Development.
Defect Library — ISO 6520-1

Standard

Every defect a trainee can find is classified per ISO 6520-1 — the reference standard for geometric imperfections in fusion-welded joints.

Live Today

Cracks, Cavities, Solid Inclusions, Lack of Fusion & Penetration, and Imperfect Shape and Dimension — fully generative and WPS-driven, per client requirement.



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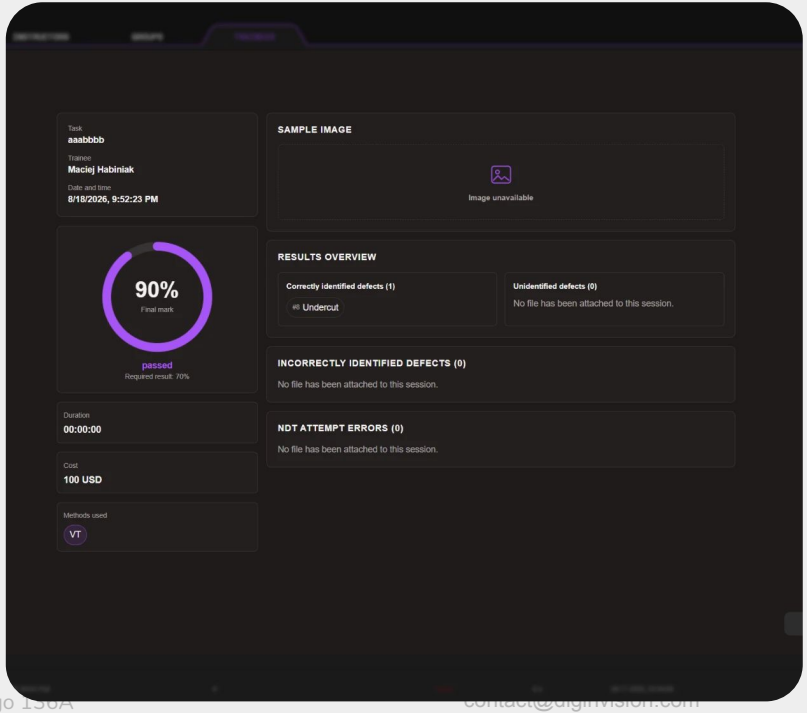
NDT Simulator Development.
Objective, Automatic Evaluation

Grading

Every mark a trainee places is graded against the true, hidden defect map — not an instructor's judgment call.

Reporting

Defect-category accuracy, spatial tolerance and phantom markings are scored instantly — full digital trial reports feed the same cloud infrastructure as welding.



04

NDT Simulator Development.
The NDT Academy

Structure

Mirrors the structure of our proven Welding Academy: fundamentals, equipment handling, HSE rules, acceptance-criteria theory — before any hands-on task.

Outcome

Graded practical tasks follow, with progression tracked per trainee — a documented, auditable competency record ready for qualification processes.



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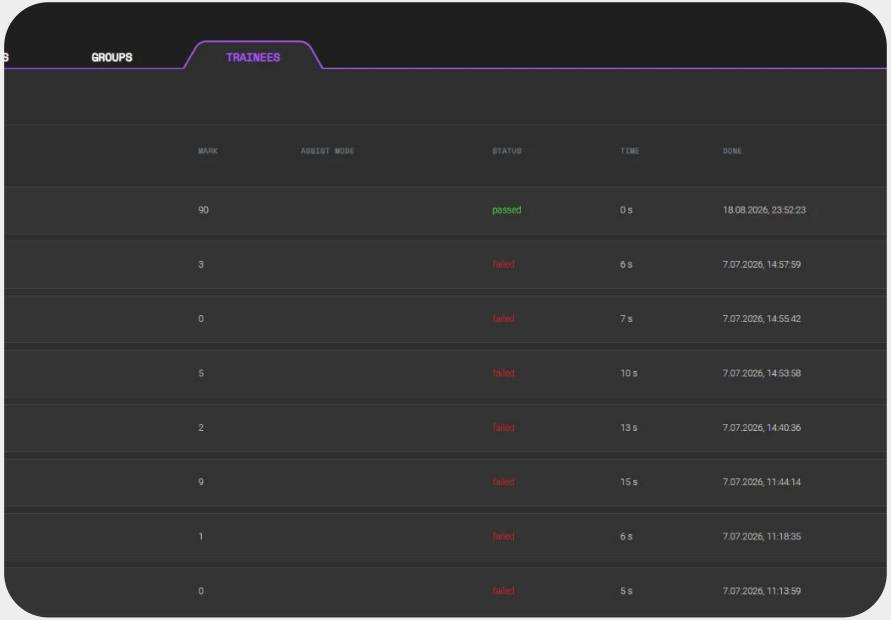
NDT Simulator Development.
One Ecosystem, One Login

Platform

NDT training runs on the exact same Online Management System already trusted for welding — cloud-based, on PC, tablet or smartphone.

Benefit

Administrators, instructors and students get one unified record spanning both welding and inspection competencies — the whole program, in one place, worldwide.



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NDT Simulator Development.
Magnetic Particle Testing (MT)

Definition

A surface and near-surface testing method for magnetic materials that uses magnetic fields and fine particles to reveal discontinuities.

How it works?

The part is magnetized — cracks distort the magnetic field, creating “leaks” that attract particles and appear as clear indications. Next on our roadmap.



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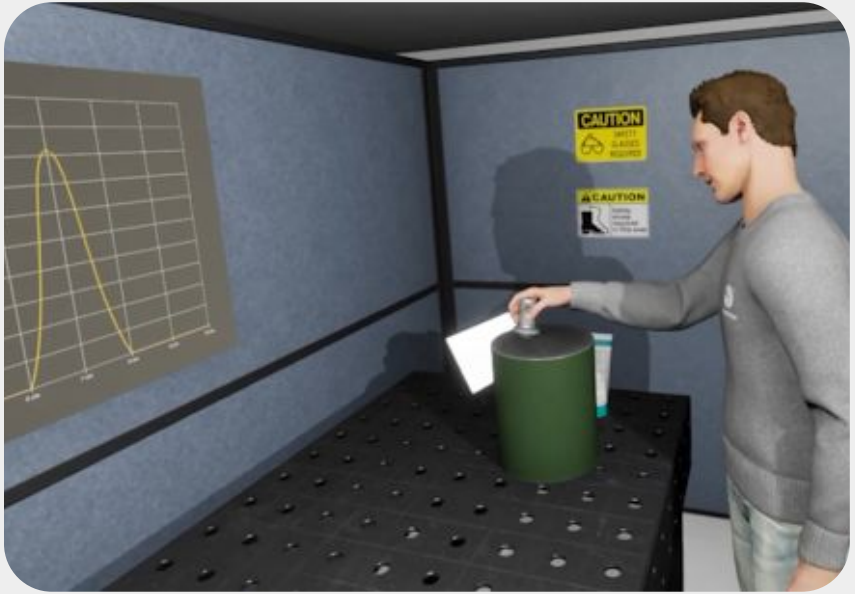
NDT Simulator Development.
Ultrasonic Testing (UT)

Definition

An internal, volumetric inspection method that uses high-frequency sound waves to reveal defects hidden below the surface.

How it works?

Sound waves are beamed into the material and bounce back when they hit internal flaws — live cross-section visualization of wave travel. Next on our roadmap.



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NDT Simulator Development.
Real Assets in VR

Pipeline

Our VR Prototyping line already turns a client's CAD model or site photos into a full digital twin in 2–3 weeks.

Case Study

A digital twin of an in-service bridge in Australia, rebuilt for remote NDT inspection training — proof the platform scales to critical infrastructure, anywhere.



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Thank You!

Let’s talk about our XR solutions and your vocational training!



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