



**PROVIDE THE  
NEXT LEVEL  
OF TRAINING  
TO YOUR  
WORKFORCE**

[www.machenn.com](http://www.machenn.com)





# XERROR

POWERED BY  
MACHENN

METaverse  
OF MANUFACTURING

Start your VR >>>>>



# XERROR

A Unit of Machenn Innovations Pvt. Ltd.

## SUMMARY

Machenn is an immersive product development company. We offer extended reality (VR/MR) based personalized solutions. Our solutions involves plug and play training simulators, Digital Twinning, Surgical Planning and Virtual Manuals.

## XERROR

**Xerror is a cloud based multi-utility platform which allows manufacturers to create personalized training and practice solutions. It provides personalized haptics and performance analytics.**





# Introduction

---

## What We Offer?

A complete toolkit of your workforce training is right here. Appealing appearance and immersive experiences derives productivity in every business. Our XR based training solutions are tailored to made to meet your specific need.

## What Makes Us Better?

Our personalized and one of the most affordable business offering makes us unique. We offer virtual reality based training solutions with hyper realistic designs and interactivity. Along with visualization, haptic sensory modalities are provided to deliver a sense of physical feel. The strong technology pioneering is our objective.

## How We Do?

We provide our customers wide range of options and offerings to meet the specific interest. We provide custom curated virtual reality solutions to our customers business needs. Starting from 3D modelling to virtual training we assist throughout the product market lifecycle.





# Virtual Workforce Training Tool

Personalized with  
Powerful Analytics for Efficiency and Productivity



Healthcare



Automation



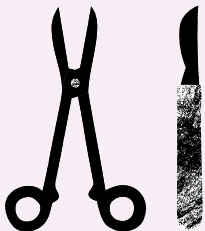
Safety



Tourism

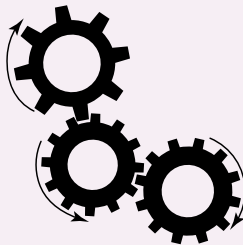


Mining



## Healthcare

- Surgical Planning
- Virtual Simulators
- Training



## Digital Twinning

- Equipment Training
- Operations
- Applications



## Assembly & Maintenance

- Equipment Assembly
- Personnel Safety
- Troubleshooting

# Technology

Custom made optical trackers with haptic sensors and data mapped training analytics for the user

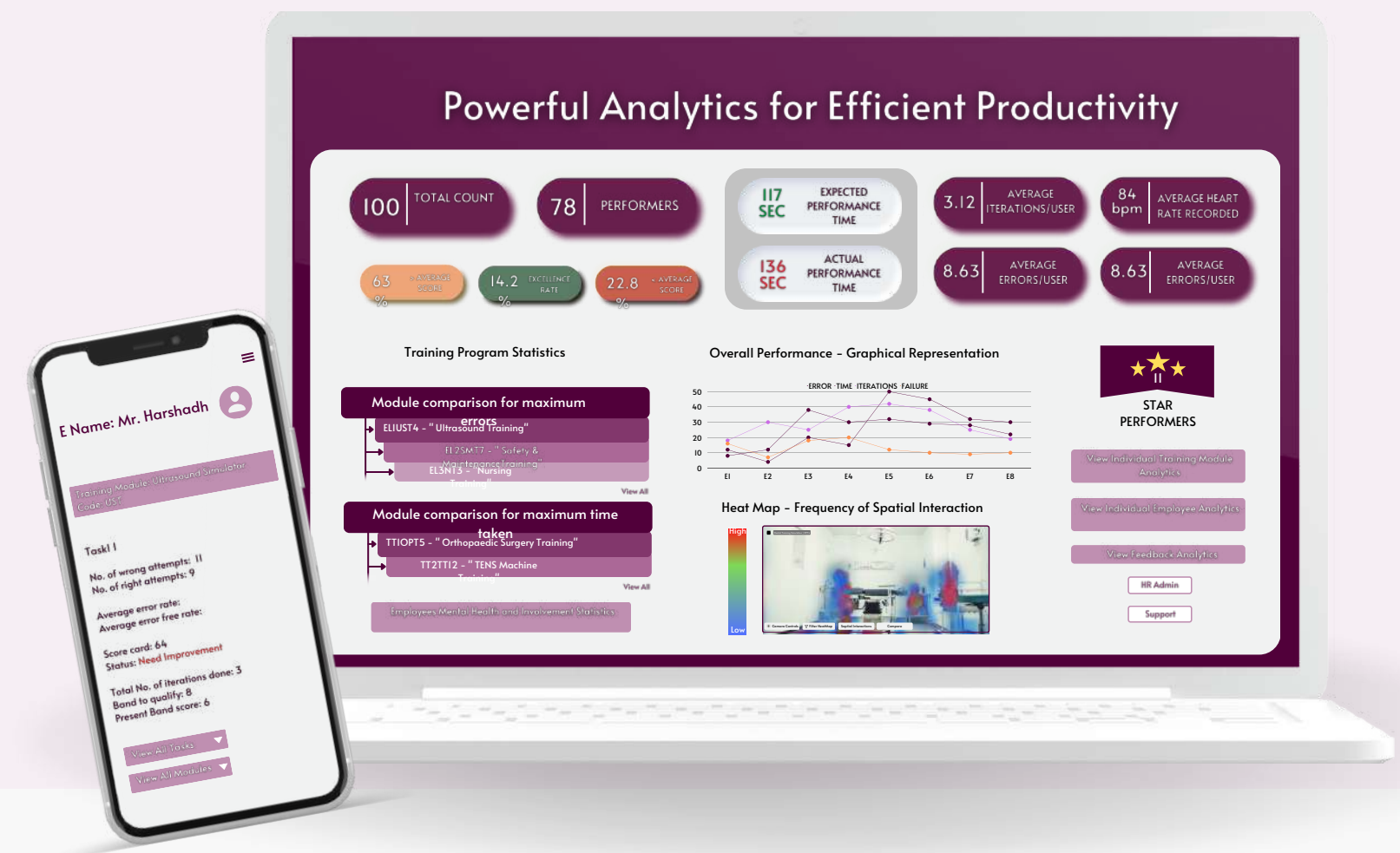
Patent in Progress



Ultrasound



Defibrillator



# Our Offerings

---

## VIRTUAL REALITY

- TRAINING APPS
- WALKTHROUGH
- USE CASE TRAINING
- NURSING TRAINING
- HOSPITAL TRAINING

## AUGMENTED REALITY

- WEBSITE DEMO
- 360° PRODUCT
- PRODUCT DEMO
- SALES DEMO
- TELEPRODUCT

## MIXED REALITY

- MIXED REALITY TOOLS
- ADVANCED TRAINING
- REALTIME TRACKING
- HOLOGRAPHIC DISPLAY
- SURGICAL GUIDANCE



# Solutions offered

---

Improve the Technology Automation and Sales funnel of Manufacturing companies with XR services



Web3 Demo



Medical device assembly



VR Demo



Hyperrealistic Rendering





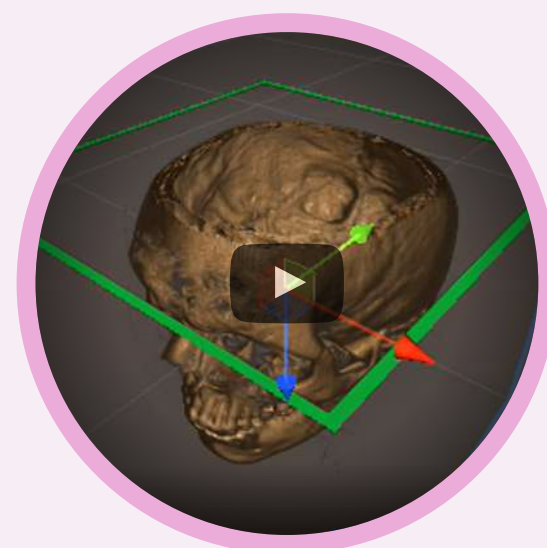
# Solutions offered

---

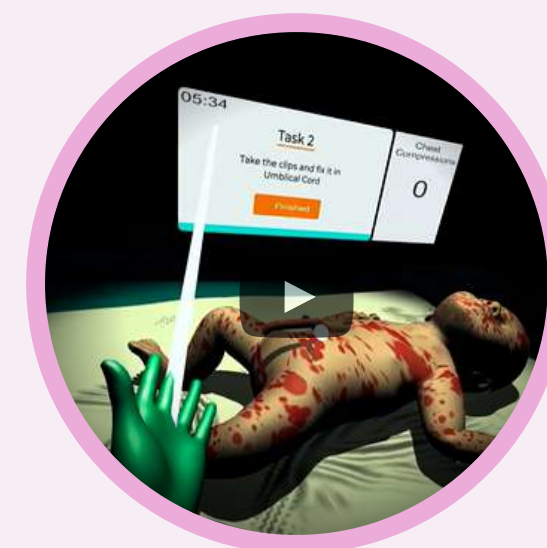
Dedicatedly to Improve the Accuracy and Precision in Healthcare Industry



Medical Illustrations



Surgical Navigation



NRP and BLS Training



Diagnostic Training



# Product Walkthrough



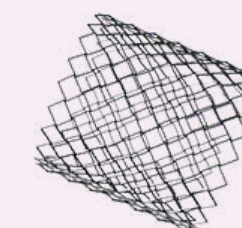
Pacemaker



Smart Band



Anaesthesia Machine



Cardiac Stent



Speculum

Immersive Three Dimensional Content for Education and Branding



# Choose Your Requirement

	Level 01	Level 02	Level 03	Level 04
	Product Branding	Product Branding	Software Application	Training Simulator
1. Digital Twinning	✓	✓	✓	✓
2. Hyper Realistic Appearance	✓	✓	✓	✓
3. Working Operations	✓	✓	✓	✓
4. Web- Accesibility	✓	✓	✓	✓
5. VR Branding Portfolio		✓	✓	✓
6. VR Integration			✓	✓
7. AR Integration			✓	✓
8. VR Glasses(Hardware)				✓
9. Simulation and Haptics				✓



# Value & Efficiency



## INSTITUTION



■ COVENTIONAL TRAINING  
■ MACHENN TRAINING

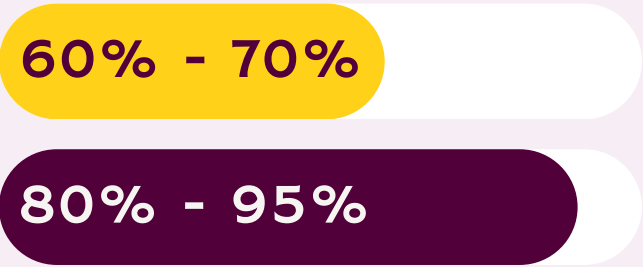
100 STUDENTS

## INDUSTRY



100 PROFESSIONALS

## EFFICACY ▲



LACK OF MEASURABLE ANALYTICS  
LACK OF PRACTICAL EXPERIENCE  
HUGE EXPENSE INVESTED IN HR, DEPRECIATION  
COST, TIME TO TRAIN AND EVALUATE

ON AN AVERAGE 15B IS SPENT IN TRAINING MEDICAL PROFESSIONALS  
(DIRECT APPOINTMENT WITH CONVENTIONAL TRAINING COMPANIES)ACTUAL COST REQUIRED TO TRAIN A MEDICAL PROFESSIONAL | \$340 - \$400  
(DIRECT APPOINTMENTS WITH INSTITUTIONS) ACTUAL COST REQUIRED TO TRAIN A STUDENT | \$230

# Support Services

---

- 01** Technical support for an extended period of two years is included. This includes changes in design, upgradation of equipment etc.
- 02** A dedicated portfolio manager will be assigned to assist in queries and feedback. New integration and removal of products will be assisted.
- 03** Our team of smart people will ensure 100% uptime of the product/service. Necessary hardware will be provided on demand at concessional range.





# Value & Presence

67%

Efficiency in Training &  
Demosntration

20% improved sales

3X less cost investment

Infinite training iteration

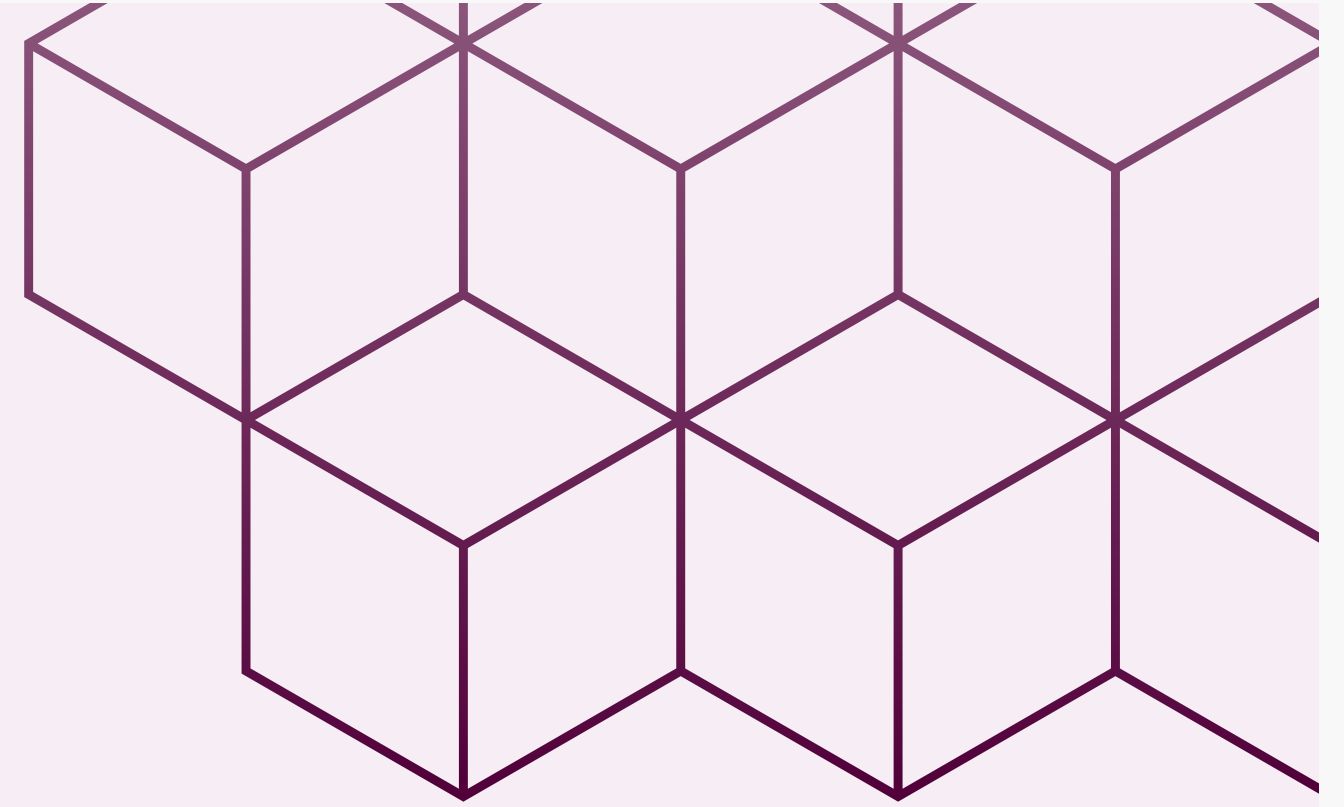
**21+**

Clients

**5520+**

Trainings





# Business Case Study and Report



# NEONATAL RESUSCITATION PROTOCOL - VR TRAINING SIMULATION

## PROBLEM

Lack of knowledge and skills: Unqualified healthcare attendants may not have the necessary knowledge and skills to provide proper neonatal care, which can lead to preventable deaths.

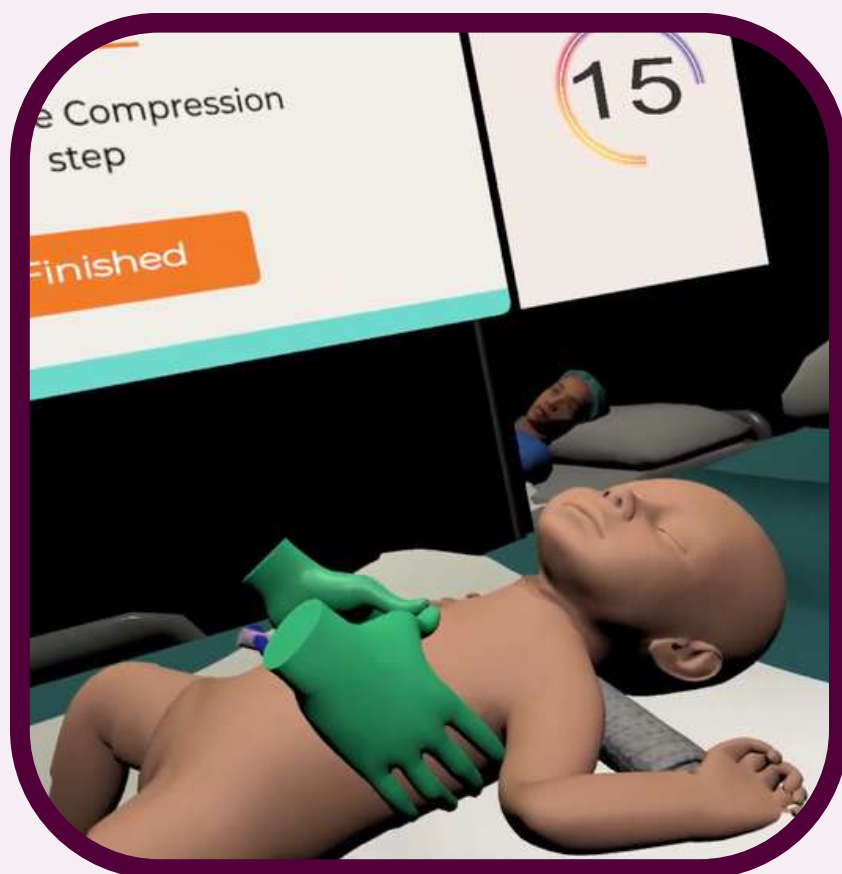
Lack of resource: Most hospitals lack training resources such as manikins, which makes hands-on difficult.

## SOLUTION

Provide a standalone training tool which allows healthcare professionals to train themselves in NRP process and emergency situation. Make the tool more effective than conventional methods such as manikins. We chose Oculus quest dashboard based high fidelity simulator with stepwise instruction and simulated worst case scenarios.

1. Stress level management - 32% higher
2. Time management - 9 Day faster
3. Rapid response to unpredictable situations- 23% Faster
4. Attentiveness - 8% better

1. Trained 78 Healthcare Professionals
2. Reduced training time up-to 33%
3. Increase in confidence among freshers







# OBSTETRICS AND GYNAECOLOGY SCAN ROOM TRAINING SIMULATOR

## PROBLEM

Lack of knowledge and skills: Unqualified healthcare attendants may not have the necessary knowledge and skills to provide proper neonatal care, which can lead to preventable deaths.

Lack of resource: Most hospitals lack training resources such as manikins, which makes hands-on difficult.

## SOLUTION

A virtual reality application with simulated medical images and medical condition to mimic actual cases. Usage of 5 virtual manikins and diagnosis practice for the staff. The controller designs were customized to the different types of ultrasound probes using IMU sensors to detect the angle of motion.

1. Scan accuracy- 12% higher
2. Time to proficiency- 2 Days faster
3. Diagnostic confidence- 21% higher
4. Patient outcomes- 10% accurate

1. Trained 78 Healthcare Professionals
2. Reduced training time up-to 33%
3. Increase in confidence among freshers







# VR SIMULATOR FOR COAL MINE EXPERIENCE DRILL SAFETY, OPERATIONS AND MAINTENANCE

## PROBLEM

A mining group faced the challenge of providing comprehensive training to its employees on the operation of drilling equipment and coal mine safety. Traditional training methods were risky and time-consuming, and the training outcomes were inconsistent.

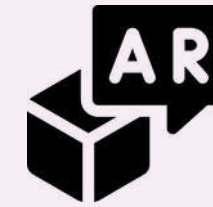
## SOLUTION

The solution offered a detailed virtual tour of the mine with photogrammetry data. Users will be provided with safety instructions. Jumbo drill operators are provided with equipment operation and maintenance training in VR.

The training also includes pre-simulated collapse, repair and blasts. This helps them follow safety protocols,







**BACKED BY**



+91-8903772381

[www.machenn.com](http://www.machenn.com)

[info@machenn.com](mailto:info@machenn.com)



**MACHENN**  
MAKING IDEAS HAPPEN

# Thank You

**Contact us to know more**

[www.machenn.com](http://www.machenn.com)

[vishnu@machenn.com](mailto:vishnu@machenn.com)

+91-8903772381