

Cusmat's Immersive Skilling System for MHE Operations



To help Enterprises improve their

Productivity



Efficiency



Safety



At Cusmat

We leverage innovative **immersive technologies to help Industries bridge the skill-gap.**



VR Skilling System (Software + Hardware)

Equipments covered in MHE Skilling Platform



Forklift



BOPT



Reach Truck



Tugger

Problems solved

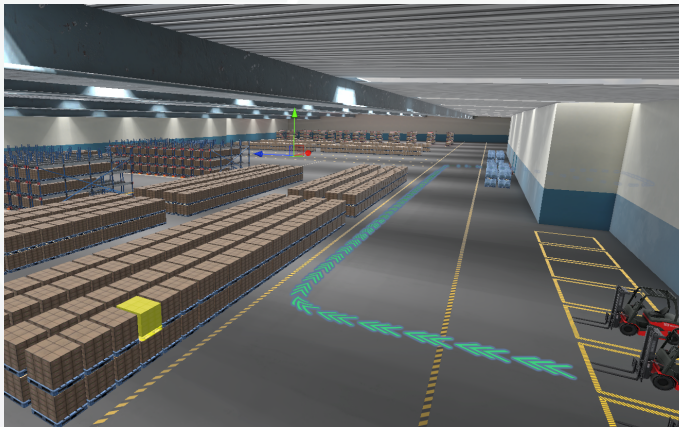
- Low tonnage handling
- Safety violations, Accidents and near misses
- Damaged goods/ wastage due to incorrect handling
- Skilling new operators in event of a demand spike
- Hot metal handling in Smelter

Metrics Impacted

- Cycle time%
- Reduction in collisions/ accidents
- Optimal path following
- Fork/ Pallet engagement

Industrial Scenarios Covered

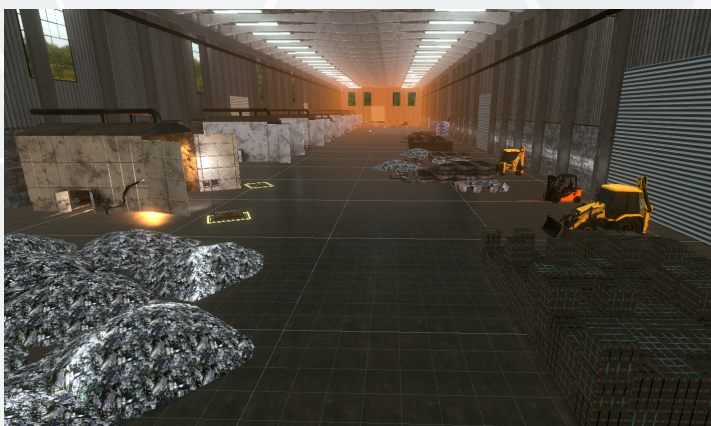
Warehouses and Fulfilment Centres



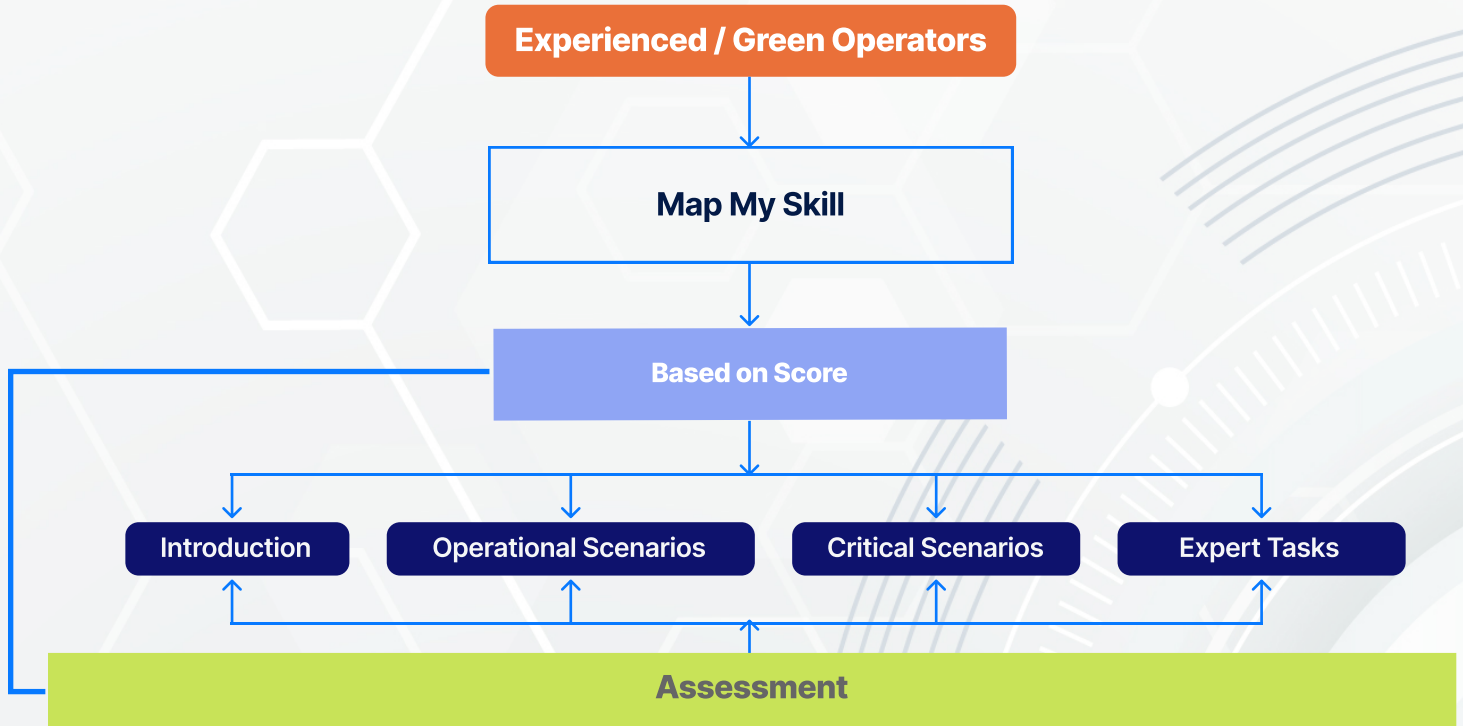
In-Plant Logistics



Factories/Smelt shops



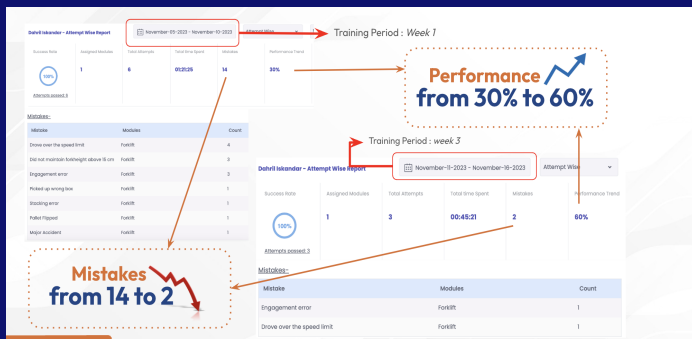
How it works ?



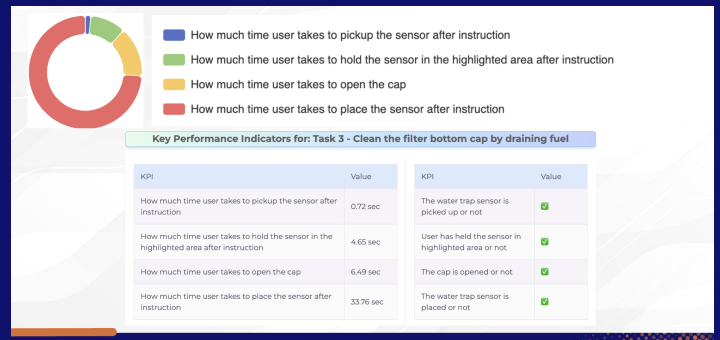
Embedded Analytics - Dashboard

KPIs Configured to Identify skill gap

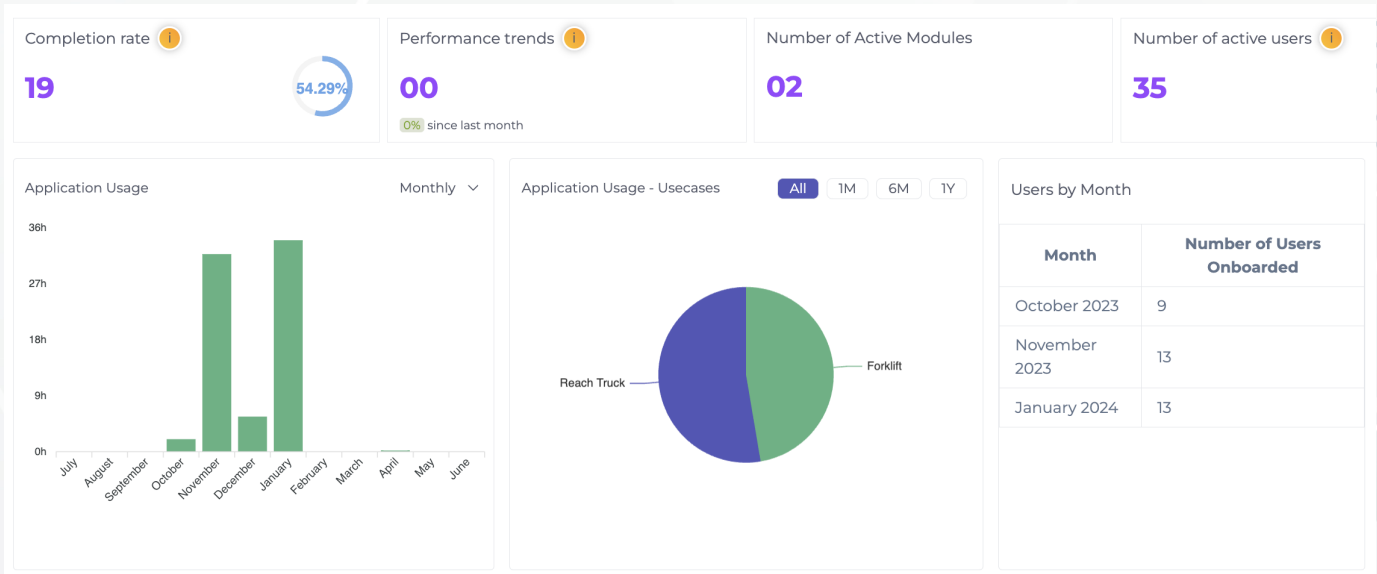
- Pallet engagement Error
- Stacking Angle and Speed
- Safety Metrics like (Over-speeding, Blending, etc)
- Ideal v/s Actual path
- Speed v/s Time graphs



Users can meticulously evaluate their performance across various levels, enabling a deep dive into their mistakes and average scores per level. This capability aids users in strategically identifying strengths and areas for improvement.



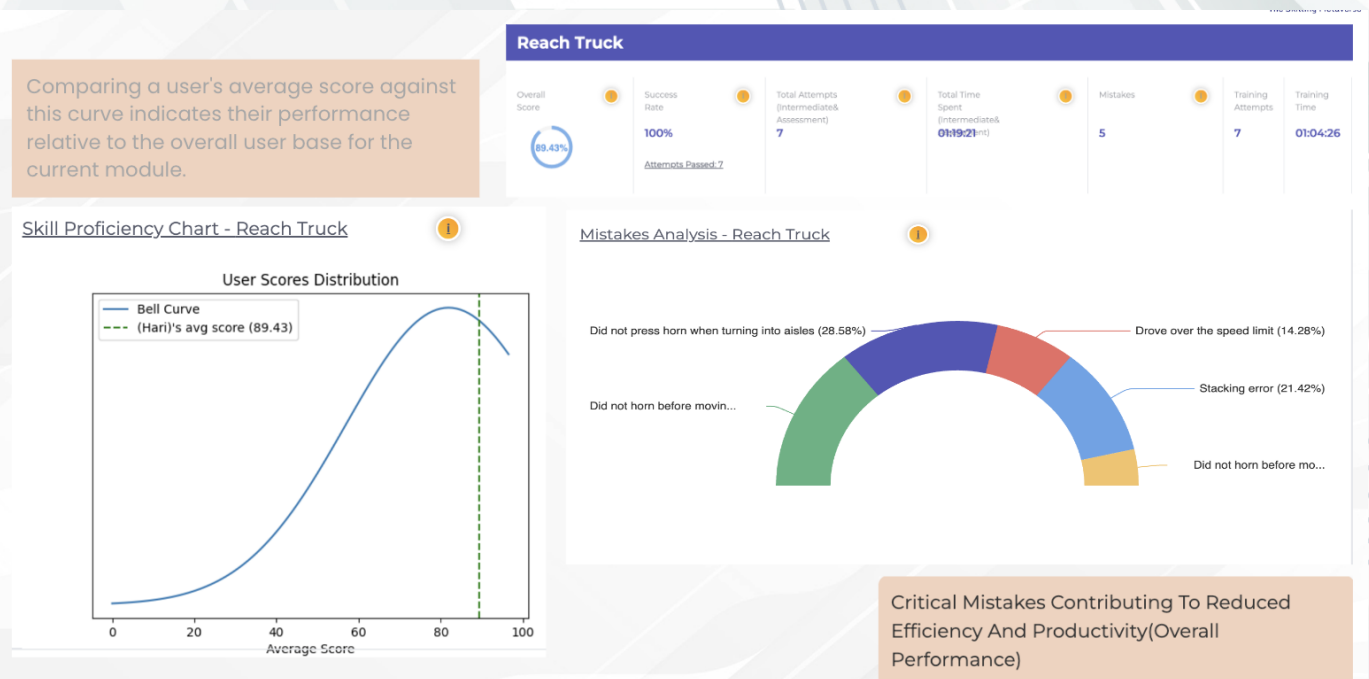
Embedded Analytics Engine



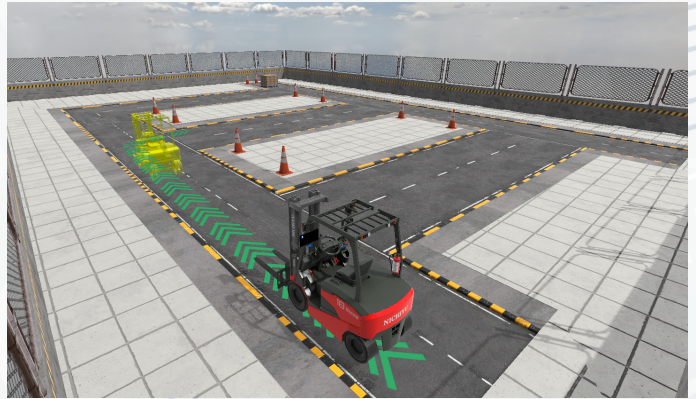
Providing a centralised view and summary of all active users, modules, application usage, and performance trends.

Detailed user-report based on pre-defined KPIs

- **Comparative report** can be generated for multiple users to compare their strengths and weaknesses.
- Providing visibility into **performance trends** and tracking **improvements in user skills over time**.
- A **scoring system** that can be configured based on technical skill/process **Key Performance Indicators (KPIs)** that aid in tracking operator skills and their **impact on operations (Productivity, efficiency and safety) and business**.

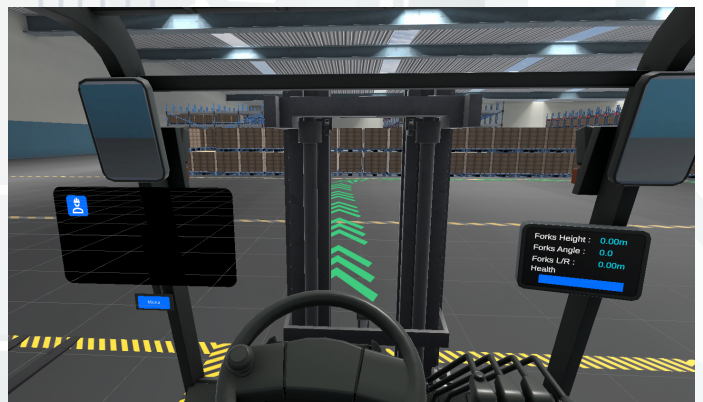
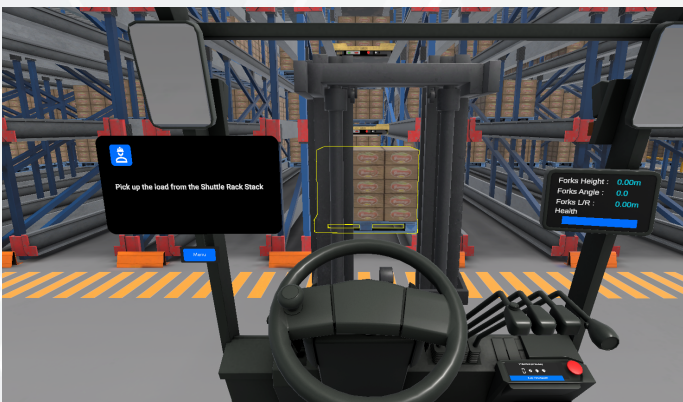


Simulation for all kinds of Scenarios



Basics:

- Introduction to equipment and controls
- Driving and turning'
- Navigating through traffic and Pedestrians
- Lifting Loads
- Understanding of load balancing



Operational :

- Handling Different types of loads
- Loading and unloading from designated spots - Rack Stacking
- Loading and unloading from designated spots - Block Stacking
- Loading and unloading from truck
- Loading and unloading in narrow spaces



Critical Operations

- Loading and unloading using different types of attachments (Double deep, push and pull)
- Manoeuvring loads through - obstructed path, rough surfaces and inclined ramps
- Loading and unloading from Heights

For cast houses and smelting floor :

- Scoop stacking / positioning / Charging
- Block/ladle/Bundle Handling



Accidental Scenarios :

- Oil Spill
- Hot metal Spill
- Charging Mistake
- Collision and toppling of loads.

Product Categories

Topics covered	SkillEdge Start	SkillEdge Plus	SkillEdge Pro
Introduction to Machine	✓	✓	✓
Basic driving controls	✓	✓	✓
Compliance & Safety	✓	✓	✓
Loading/ Unloading	⊗	✓	✓
Load/ Weight balancing	⊗	✓	✓
Following the Path (Simple/ Complex)	⊗	⊗	✓
Cycle time reduction	⊗	⊗	✓
Emergency scenarios handling	⊗	⊗	✓

Thank you



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