

VR Construction Equipment Simulator

Heavy Equipment Virtual Practice Solution (proposal)

Proceed with Your Heavy Equipment Operation Training Safely



Is there a better and easy way to manage
safety and equipment?

**Beginner's safety accident
rate: 98%, due to
unskilled operation**



Danger of safety accidents

**Lack of
practice time**



Lack of equipment for practice



Actual equipment
operation cost

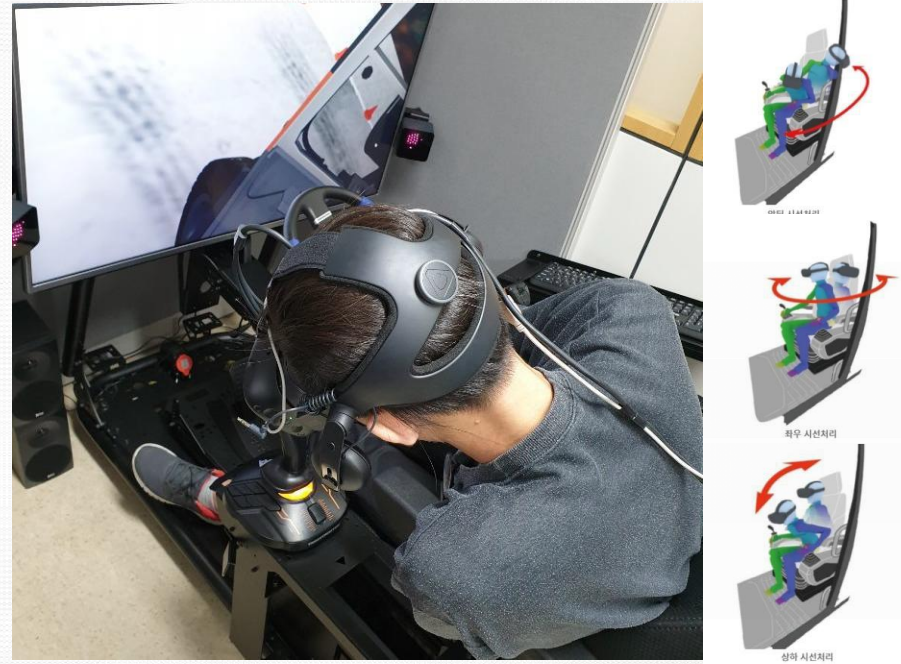
**Effective and safe indoor training is practicable with VR
simulators with less maintenance cost.**

IT technology + Heavy Equipment + Practice training meet in
our development of the most realistic Heavy Equipment
Virtual Practice Training System.

**Actual equipment operator's
viewpoint**



**VR Simulator operator's
viewpoint**



Comparison of Heavy Equipment Simulators

Unit :Won

	VR HMD	Competition 1)	Competition 2)
Price	18,000,000	72,000,000	Over 100,000,000
Software	2,500,000	22,000,000	50,000,000
Utilization	Beginner practical training	High level practical training	High level practical training
Platform	User position-based VR HMD	Monitor motion platform	Multi monitor motion platform
Others	Heavy equipment contents adding function	Exclusive for corresponding Heavy Equipment only	Foreign made product; Korean not supported

VR HMD is an immersive type Virtual Space platform, in which a relatively large number of simulators can be installed in a small space.

This is a software-concentrated type system; simulations for other equipment are available only with a software upgrade.

Very reactive to change of layout with easy to move, compact and integrated type system

VR HMD platform provides realistic immersiveness to users.



VR HMD provides realistic view by tracing the users.

LeapMotion provides expandability of Virtual Space.

Module changes allow you to apply the required functions.



forklift crane lever controller



Excavator Motor Grader Joystick
Controller



Front and rear lever controller



Pedal Module

Users can practice systematically based on National Competency Standard (NCS) Learning Modules.



Self basic operation practice without a supervisor is available by using the imitating function of National Competency Standard level 3 for corresponding heavy equipment.

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Taki Towercrane Simulator



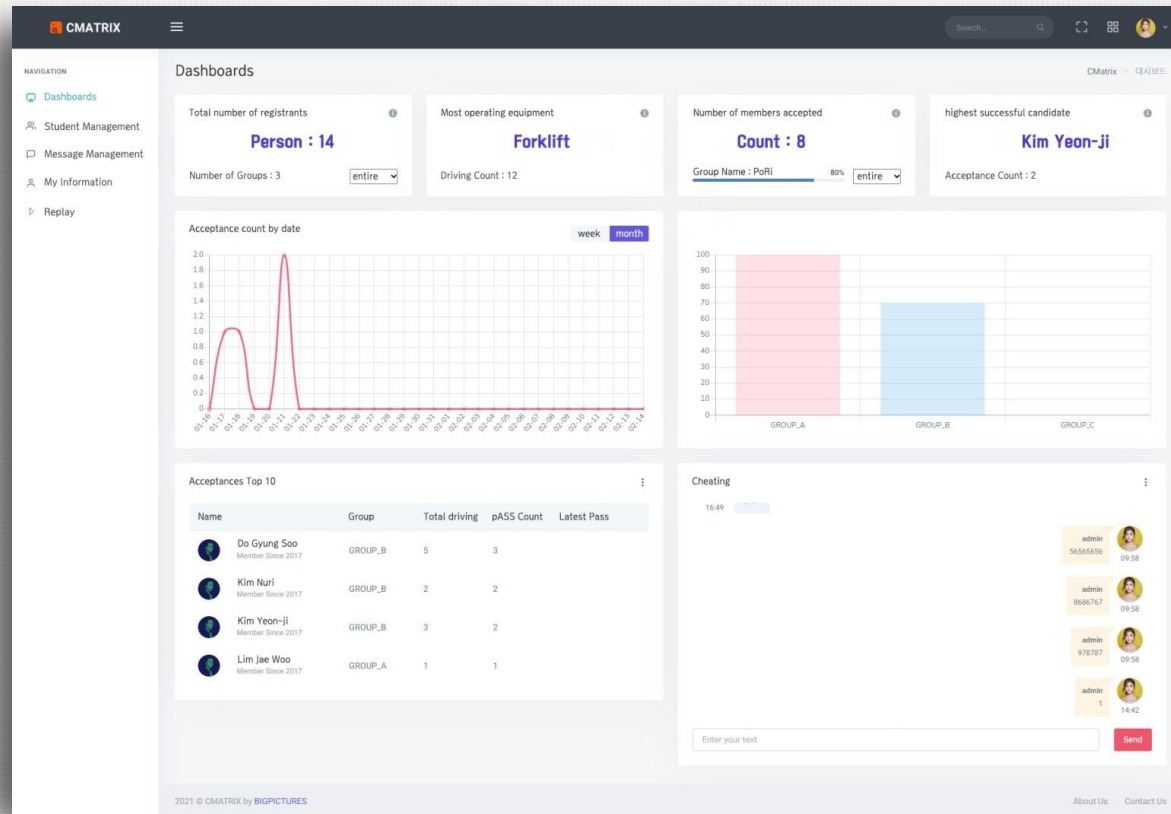
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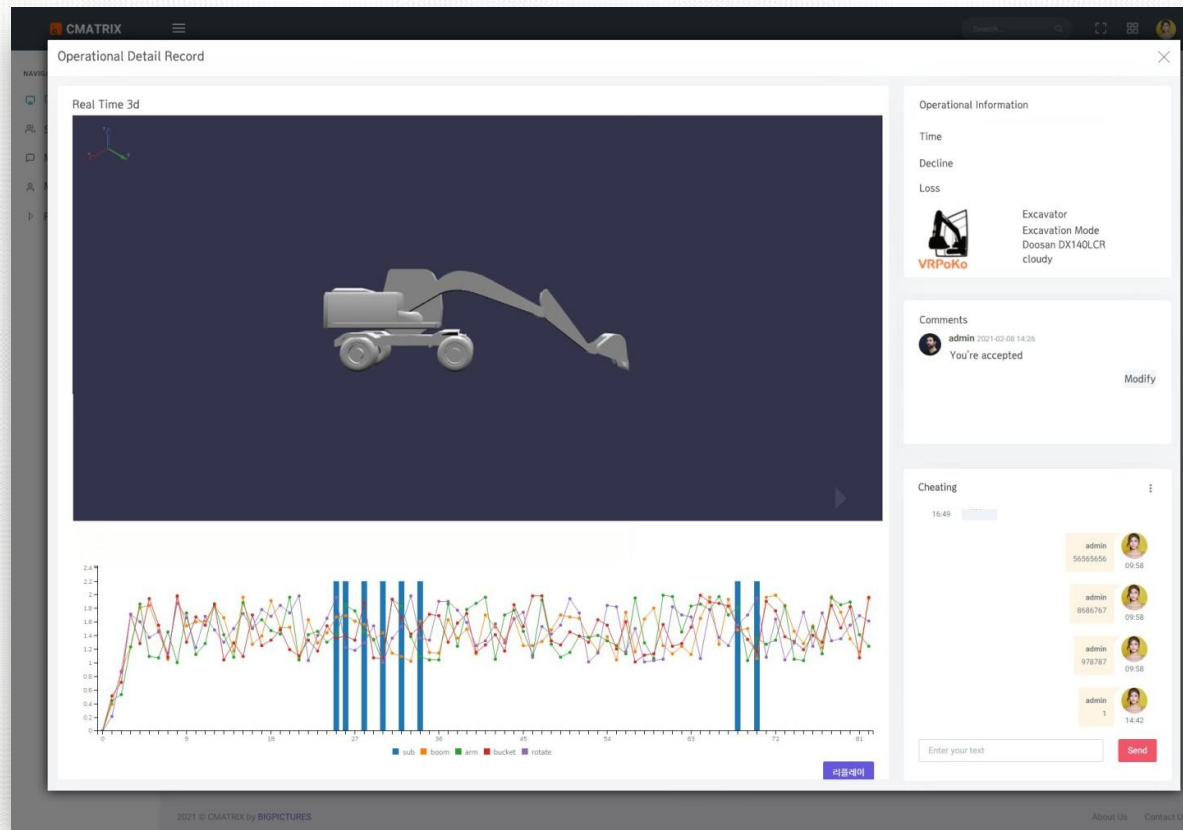
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Learning Management System (VRLMS) manages the records of the students and system effectively.



Easy to manage student grades, progress and operation time; a fast learning effect can also be expected by analyzing the Virtual Practice content.

LMS(Learning Management System) manages the records of the students and system effectively.







Real-time 3D View training based on driving data.

VRCMS is not a game.

VRCMS is user motion tracing position-based implementation technology applied to **Heavy Equipment Practice Training Simulators**



Main educational institution customers

	Buyeo EHS		Chungbuk VS		Daehan CIA		Gangwon ARES		Yuseong Bio SHS
	Andong THS		Gimhae CIA		Dongshin University		Pohang THS		Jeonbuk SHS
	Karf Micro Co., Ltd.		Induk SHS		Dongil THS		Samcheok ATC		1115 Engineer Corps
	Gyeongnam TP		god of driving LEC		Ganghwa ATC		Gwangju ATC		Uiseong ATC
	Jecheon ATC		Polytech University		6625 Engineer Corps		Suncheon THS		Chungju THS
	Geumsan ATC		GUMI University		MokPo THS		HongCheon ATC		GwangJu THS
	Gyeonggi ATC		Imsil ATC						

VRCMS is being used at High Schools, Universities and Agricultural Technology Centers as we speak.



Thank you very much

Introduction of VRCMS

Tel : 070 4209 4773

Email : cms@big-pictures.co.kr

Homepage : www.cmsimulator.co.kr