

Exclusive Reseller

Mimbus

تربیت
TARBIYAT



Assistive Learning Technology | Vocational Counseling | Professional Development



CATALOG

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TABLE OF CONTENTS

MIMBUS PRESENTATION	3
VULCAN	6
TRAINING SUPPORT PACKAGE FOR INSTRUCTORS	8
TABLE OF TRADES	9
PRODUCTS	
WAVE NG	10
WOOD-ED TABLE	12
SIMSPRAY	14
MULTI-TRADE DRIVING STATION	16
WOOD-ED FACTORY	18
FL TRAINER	19
VORTEX CRANES	20
VORTEX EARTH MOVING EQUIPMENT	21
THE VIRTUAL REALITY TRAINING ROOM	22
VIRTUAL INDUS	24
4DMU EDU	25
PARTNER SOLUTIONS	26



« *Excellence is an art
won by training and
habituation.*

- Aristotle



Founded in 2011, MIMBUS is the leading global provider for innovative training solutions dedicated to manual skills. We share our expertise in the industrialization of training systems in France and abroad.

We are committed to bring ground solutions both to learners and instructors, we develop and distribute specific tools that meet our customers' specific needs, and provide learning systems built on 3D new technologies, virtual reality, eLearning, augmented reality ... Thus, we offer training systems based on virtual environments.

Certainly, cultures around the world differ but the training issue remains of paramount importance : how do we train people in a more effective and rapid way, while enhancing their confidence in vocational training?

Our objective is to offer time-saving solutions that will both save raw material and help attract new learners thanks to innovative technologies.

MIMBUS is a high-growth SME and ensures the deployment of virtual training systems worldwide. Since our training environments replicate real industrial situation, our customers mainly are training organizations in France (AFPA, CFA, Technical Schools, GRETA) and Ministries of Education or Ministries of Labour overseas.

For more information about MIMBUS and its global network of distributors, visit:

 www.mimbus.com



PUTTING THE JOB BACK AT THE HEART OF THE TRAINING



Our objective is to provide the learner with a better understanding of his future trade, and give him the tools to access employment faster. Based on innovative technologies, our systems focus on learning through a realistic practice of the professional motion and know-how. This progressive and engaging training is a drawing power to get a quality practice. The instructor in charge of the learning path defines the progression path, controls the educational achievements and customises the learning path thanks to the solid range of tools at his disposal.

A TEAM OF EXPERTS AT YOUR DISPOSAL



We combine a complementary set of skills in order to develop our solutions: 3D development, web technologies, digital learning design, ergonomics ... More importantly, our systems are designed by instructors and experts of the various trades. We have joined our different expertises to obtain the most successful training solutions.

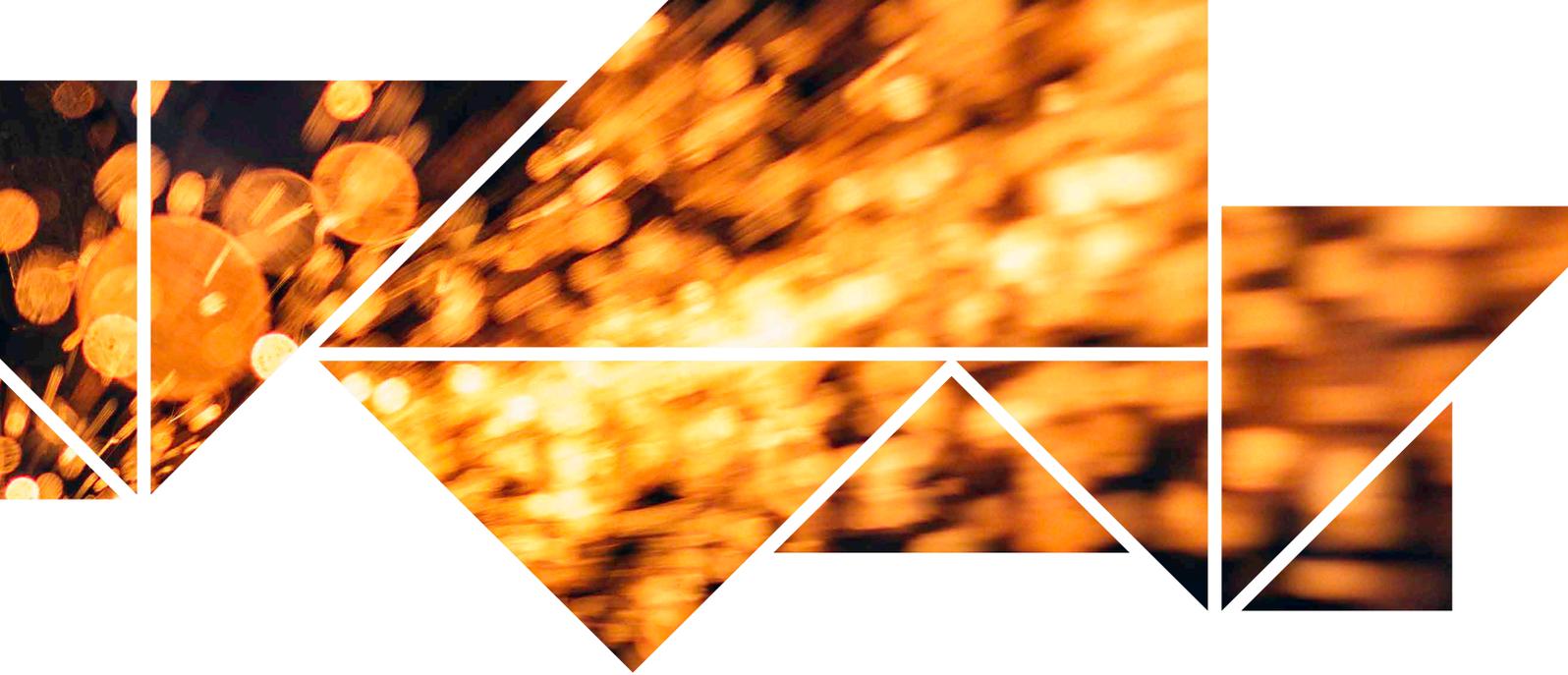
TRAINING BETTER ACROSS THE WORLD



To learn a trade means to gain knowledge, know-how and behaviour: through education, populations evolve and contribute to the development of their country.

Our training systems know no boundaries. Accessible, easy to install and to use, they can adapt to any language.

Our local partners and distributors are highly skilled, they can install, train, and respond quickly to any support request from our customers.

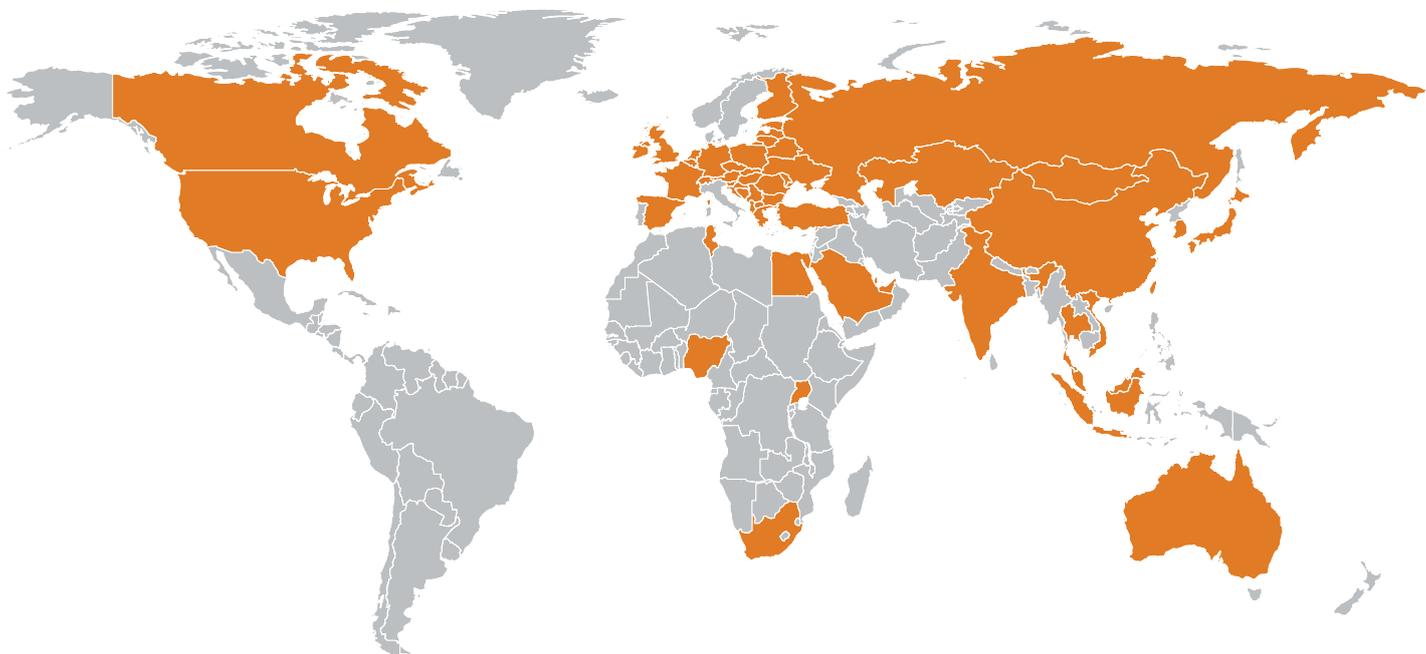


RESEARCH AT THE CORE OF OUR DNA

MIMBUS devotes 50% of its activity to research and development in order to offer innovative cutting-edge tools. In collaboration with you, we can define the advanced solutions that will meet your needs, taking into consideration your specific constraints. Then our team of experts can design both software and hardware that will become your virtual training tools.

MIMBUS provides you with a dedicated training and customised support to ensure the most efficient and beneficial integration of our tools.

MIMBUS operates worldwide through a global network of more than 35 partners. For more information : <http://www.mimbus.com/partners/>



VULCAN

TRACKING PLATFORM
FOR VIRTUAL TRAINING
WORKSHOPS

 vulcan.mimbus.com

VULCAN radically transforms your abilities to follow-up the professional practice. VULCAN is the very first web platform for the real-time tracking and control of motor skills. Associated with MIMBUS virtual simulators or any other simulator, VULCAN assists the instructor's teaching and analyses every learner's individual learning path.

WHAT IS VULCAN?

Contrary to a LMS (Learning Management System), this world-exclusive tracking system for virtual learning simulators does not only assess the acquisition of knowledge, but it also captures and controls the evolution of the learner's know-how in the virtual environment.

VULCAN can track in real-time the development of every learner's manual skills, and offers a progressive learning approach of the professional motions acquisition by dissociating them into separate basic skills.

Fully controlled by the instructor, VULCAN assesses the performances, informs the instructor and eventually warns him about his learner's progression.

VULCAN is a cloud solution available anywhere and from any device.



THE TRAINING SUPPORT PACKAGE FOR INSTRUCTORS



Our virtual simulators are educational tools, the instructor remains the key to education.

That is why we offer a dedicated training session for the integration of our solutions in your educational program.

Whether you wish to create a brand-new training center, or implement a quality comprehensive training program, or meet a specific company need, we support you in your integration project and train you on our simulators.

Through our professional partners' network, we reach out to all trades proposed here, with an aim to create the upcoming training organisations.

Our objective is to help you to integrate these new technologies to implement cost effective training sessions while improving both training efficiency and training duration.

The Training Support Package for Instructors combines these new tools with the renowned expertise of experienced professionals.

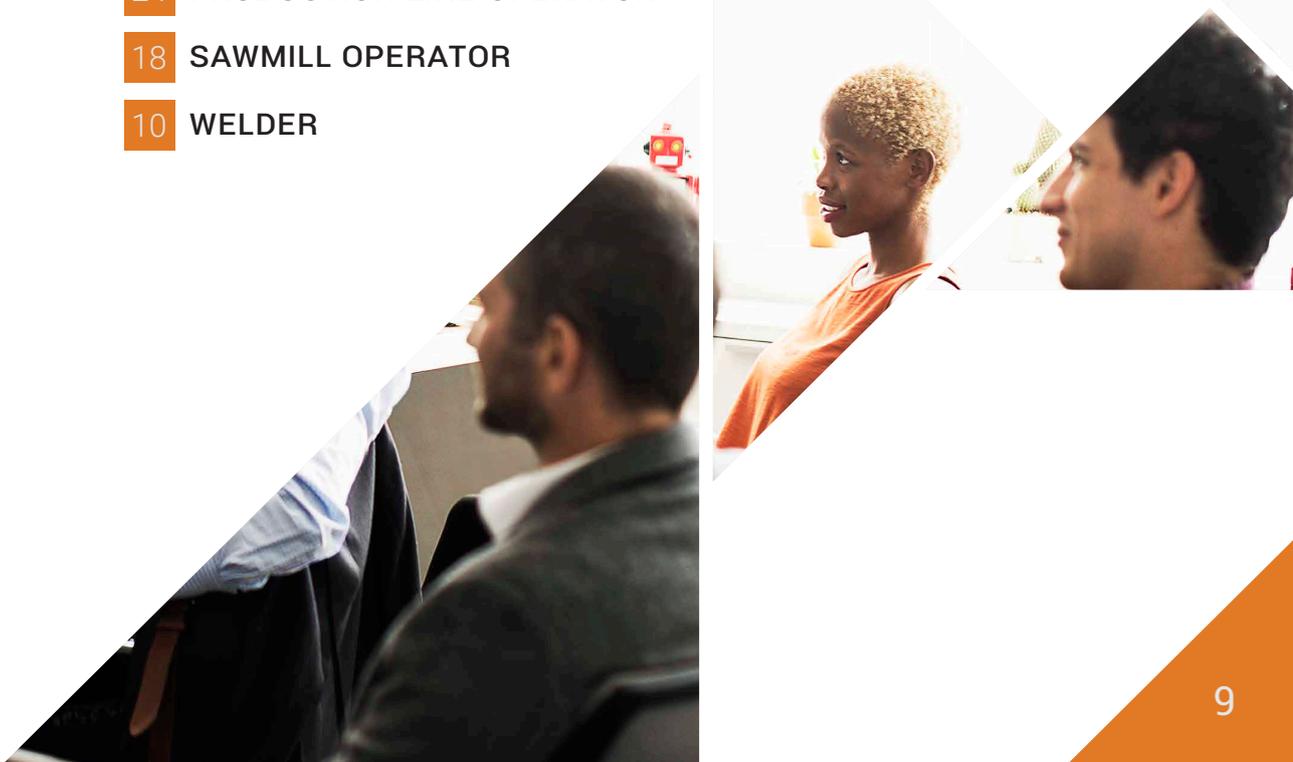
BENEFITS

- "Train the trainer" workshop
- Integration and optimisation of the new technologies
- Definition of customized curriculums
- Design adapted to your specific needs



TABLE OF TRADES

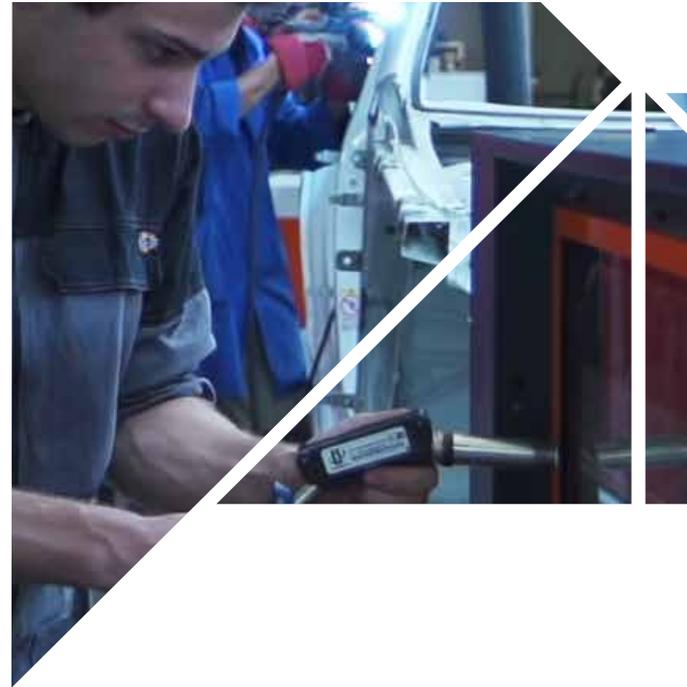
14	AERONAUTICS PAINTER
14	AUTOBODY SHOP PAINTER
14	BLAST HOSE OPERATOR
10	BOILERMAKER
25	BUILDING TRADES
12	CABINET MAKER
12	CARPENTER
21	EARTH MOVING EQUIPMENT OPERATOR
20	CRANE OPERATOR
24	ELECTRICIAN
19	FORKLIFT OPERATOR
14	INDUSTRIAL PAINTER
24	MAINTENANCE OPERATOR
24	PRODUCTION LINE OPERATOR
18	SAWMILL OPERATOR
10	WELDER





WAVE NG WELDING

 www.wave-ng.com



WAVE NG is the leading most efficient virtual simulator for a fast learning of the welding motion. WAVE NG offers both the MAG, MMA and TIG process, combining expert dexterity and fine motor skills with both hands. No helmet or adjustment of the welding station, the rule is straightforward: watch your hands to understand what you are doing and focus on the fundamentals, the welding motion.

WAVE NG is the ideal tool to acquire and master the professional welding motion.

EASY AND PROGRESSIVE

WAVE NG allows the follow-up of one or various parameters of the welder's motion: trajectory, travel speed, arc distance, work and travel angle related to the welding pool of a cord. So, the learner can train on these parameters either individually or simultaneously, and with 3 levels of tolerance range. The system can simulate various assemblies (butt and fillet) and welding positions (horizontal, vertical, overhead, flat).

A COST-EFFICIENT AND GREEN EMBEDDED TOOL

In addition to a formal training, the use of simulation allows substantial savings on base metal, filler metal, gas (Argon, Co2 Argon), spare parts, torches, personal protective equipment like gloves and aprons, tools and grinding consumables, while improving the educational quality thanks to the individual tracking on our CLOUD interface. Besides, the learner immediately gets to weld with no need to waste time in preparing his work. A 30% to 50% of the training on WAVE NG improves the exams results of 20% to 30%, while saving 40% to 60% in raw material and consumables.

INCREASED SAFETY AND COMMUNICATION

Due to the elimination of the risk of burns, cutting or projection hazard, the trainee can learn without stress and focuses on his professional practice and motions. He learns faster and the results analysis explained by the instructor allows him to better understand the consequences of his welding motion.

Thanks to a progressive and customised learning you can track the learners' progress while having the proper tools to explain, assess and record their progress.



SPECIFICATIONS

The embedded software offers the following features:

- User login authentication
- Customized setup of screen position
- Exercise selection
- Progressive learning (by increasing difficulty and customized learning path for every motion parameter)
- Exercise completion
- Results analysis
- Contextual help
- MIG/MAG, MMA & TIG compliant (depending on the model)
- Multilingual

Several platforms available, depending on your needs:

- DESKTOP version, table standing for initiation purposes
- INDUSTRIAL version, with a wide range of available positions and processes

VULCAN compliant :

- Tracking of motion parameters: position, orientation, speed and angle
- Individual analysis of the progress
- Creation/update of the learning paths





WOOD-ED TABLE

WOOD WORKING

 www.wood-ed.com/table



The **WORLD-EXCLUSIVE** training solution WOOD-ED TABLE immerses you in a 3D environment to allow you to operate wood-cutting machines without risk, thanks to augmented reality and a unique force feedback system.

Train your learners in mastering the proper motions when operating wood-cutting machines autonomously and in a secured way, while controlling their learning process.

A SCALABLE MULTI-TOOL TABLE

After selecting one of the 4 main stationary machines used in wood workers, WOOD-ED TABLE offers a FULLY SAFE learning of the professional carpentry motions.

WOOD-ED TABLE comes equipped with an exclusive and realistic force feedback system that simulates the real work sensations and cutting constraints. With his own customized learning path, every learner can access a step by step educational curriculum.

The scalable system is designed to lead the learner from basic practices to more advanced operations. The simulator tracks and saves the completion of work procedures, the travel speed, as well as cutting regularity and accuracy, for further analysis.

A SAFE AND COST-EFFICIENT TRAINING

Cabinet makers' and carpenters' operations require precise movements. A band saw, a rip saw, a jointer and a shaper can be potentially harmful. They require a good position of the operator's hands and a perfect knowledge of the work procedures.

WOOD-ED TABLE ensures a totally safe learning: no cut, no projection, no accident hazards.

The savings on raw material, spare parts and real machines is also greatly enhanced by the quicker learning achieved in total autonomy.

AN EFFICIENT FEEDBACK TRAINING

So far, an instructor could only have one trainee at a time practicing on the wood-cutting machine, under his direct supervision. Thanks to WOOD-ED TABLE, the learner can work independently and better understand the results and risks of improper handling. He practices more, he progresses faster and communicates more easily with his instructor.



SPECIFICATIONS

WOOD-ED TABLE consists of the following components:

- Large work surface of 1200*800mm
- Side flaps to extend the work surface to 2000*800mm
- 3 different planks:
 - 800 x 82 x 62 mm (l*w*t)
 - 600 x 300 x 32 mm (l*w*t)
 - 1200 x 300 x 32 mm (l*w*t)
- 3D Audio
- 3D glasses
- Hands trackers (R+L)
- 3D HD video projector
- Force feedback system with vibration and resistance depending on the hardness of the wood (patented system)

The embedded software offers the following features:

- 4 machines
 - Band Saw
 - Rip Saw
 - Jointer
 - Shaper
- Login and exercise selection on the integrated touchscreen
- 48 different exercises
- Training start-up and adjustment
- The instructor can save his own reference motion for every exercise
- Replay system

- Free Mode or Curriculum Mode, depending on the instructor's choice
- Progressive Learning
- Detailed analysis of the results

VULCAN compliant:

- Tracking and follow-up of the motion parameters: hands position, travel speed and accuracy
- Individual analysis of the progression
- Curriculum creation/update





SIMSPRAY INDUSTRIAL PAINTING

 www.simspray.fr

Experience a whole new way of training PAINTERS by integrating SIMSPRAY in your workshop. Reproduce a VIRTUAL paint booth where your learners can train without risks, without wasting paint and with no impact on the environment. Teach your students in hundreds of different work situations while controlling their progression.

EFFICIENT

SIMSPRAY allows to learn the spray-gun painting motion with the very same professional movement as with the real equipment. The repeated practice of the painting motion on the simulator increases the learner's efficiency when in a real painting booth. It is estimated that the trainee will spend 80% less time in a real booth after first training and practicing with SIMSPRAY.

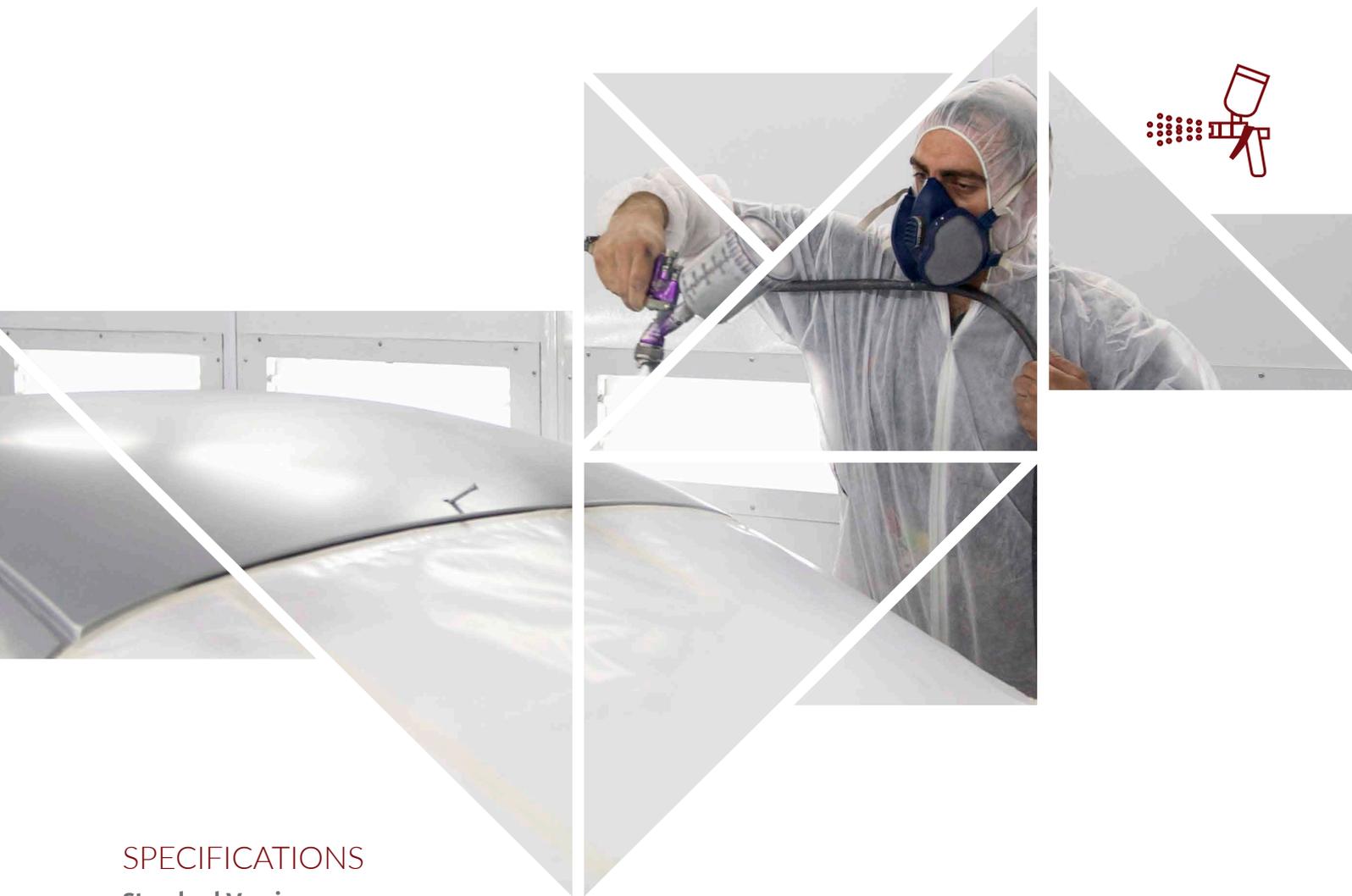
COST-EFFICIENT

The investment in SIMSPRAY will quickly pay off in the optimization of the training time and savings of raw material. The various exercises and settings available in SIMSPRAY provide the instructor with all kinds of work situations to train his students. Learners can progress quickly and in a secured way, without wasting paint or solvents. The in-depth results analysis enhances the communication between the instructor and the trainee. He understands better the impact of his movements; therefore, he progresses faster.



ENGAGING

Based on immersive virtual technologies, SIMSPRAY offers a 3D realistic environment allowing learners to practice on 3D parts in all positions, in an engaging and challenging way for young people.



SPECIFICATIONS

Standard Version

- HVLP process
- Paint on virtual parts of medium sizes (auto body shop parts, motorcycle tank, car door, bumper, bonnet, industrial parts, flat or curved parts)
- Coating on stationary parts
- OPTION: Edge blending module

Industrial Version

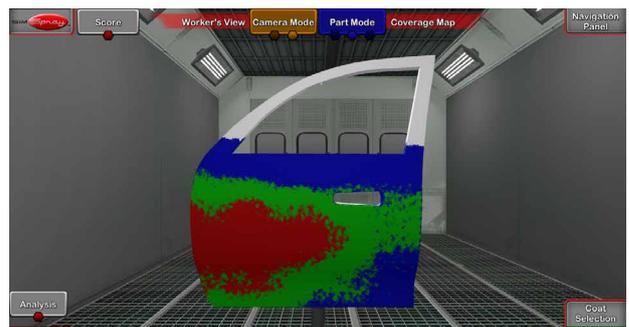
- HVLP, Airless and Air Assisted Airless (Airmix) processes
- Paint on virtual parts of medium sizes (auto body shop parts, motorcycle tank, car door, bumper, bonnet, industrial parts, flat or curved parts) and large sizes (large panels, bridge section, excavating shovel)
- Coating on stationary parts and on mobile parts (on an assembly line)
- OPTIONS: sand blasting module and edge blending module

Powder Coating Version

- Electrostatic powder coating process
- Coating on specific virtual parts

Every SIMSPRAY system comes equipped with a customized flight case on wheels and includes the following components:

- Tracking stand to position the parts in the virtual environment
- Motion capture system
- FMD control unit for video generation
- FMD Helmet (Face Mounted Display) in 3D virtual reality with sensors
- Custom Spray Gun with sensors or Abrasive Blasting Gun, wireline connection between the spray gun and the PC
- Touchscreen
- Loudspeakers
- PC with keyboard and mouse (INTEL CORE i7-930 2.80GHZ, 4GB PC3-10666 1333MHZ, 250GB SATA300 7200RPM 16MB, Windows 7 Pro, 2 Quadro FX 3700 256MB GDDR3)





MULTI-TRADE DRIVING STATION

Our generic platform “Multi-trade Driving Station” offers the opportunity to drive or operate several equipment. It consists in a fixed base: seat / screens associated with integrated control units or control panels depending on the simulated equipment or machinery.

Fully compliant with VULCAN, it allows you to train learners on various equipment while controlling the training through VULCAN.

The machinery currently available is:

- Forklift
- Construction machinery
- Lifting equipment
- Industrial sawmill

All the above professional modules are VULCAN compliant:

- Tracking of learning skills: failures, speed of execution, efficiency
- Individual progress analysis
- Creation/update of learning curriculums

FEATURES

- Advanced educational system, designed for a step by step acquisition of skills
- High durability and reliability, to protect your training investment
- Wide range of multi-trade platforms equipped with 1 to 3 or 5 main screens with or without dynamic rendering system. The control units can vary depending on the simulated equipment.
- Multi-trade platform to meet all your requirements, just by changing the control units

Companies wishing to get a customised equipment, please contact us.



MULTI-MACHINE

Construction machinery, industrial sawmill, forklift: the platform can adapt to the best simulators on the market.



EDUCATIONAL

The touchscreen allows you to select an exercise, to follow up its progression along the curriculum and to display the control panel.

MODULAR

Range of configuration options available to match the real controls of the simulated machinery: joysticks, pedals, steering wheels, ...

ALSO AVAILABLE



APOLO Platform
for FL TRAINER



VORTEX Platform 3 screens
for VORTEX simulators



VORTEX Platform 5 screens
for VORTEX Simulators



WOOD-ED FACTORY SAWMILL OPERATOR

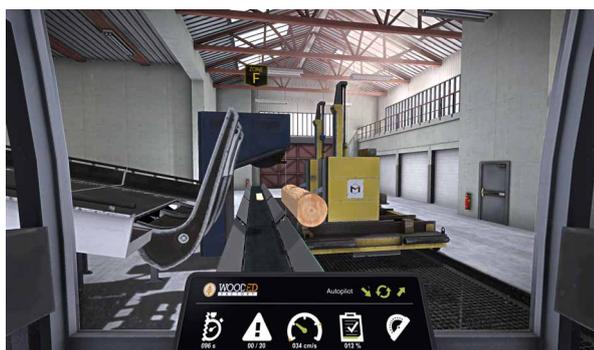
 www.wood-ed.com/factory



**Train operators in your sawmill without interrupting your production line.
In industrial sawmills, the headrig ensures a regular production rate and profitability.
WOOD-ED FACTORY trains and teaches the future sawmill operators on a headrig or a canter line.**

WOOD-ED FACTORY trains the operator with various modules and sequences of exercises in mastering a mono-cut or bi-cut bandsaw, managing the travel speed, knees, etc. WOOD-ED FACTORY offers customised setups to replicate the operator's future work situation experience:

- Fully customisable control systems for the joysticks and pedals
- 3 machines: headrig 2 knees, headrig 4 knees, canter line
- Progressive learning through sequences of increasing difficulty
- In-depth analysis of the execution, production profitability and quality



BENEFITS

- Improves the learning speed and gets the operator ready to work more quickly
- Independent from the production line (efficiency gain and no breakdown risk)
- Savings in raw material and logs, as well as wear of the blades, rotating parts, spare parts, ...
- Accelerated learning process, with no accident hazard



FL TRAINER FORKLIFT

 www.mimbus.com/products/fltrainer

The Forklift simulator provides a “learning-by-doing” approach to teach learners the essential driving reflexes to operate and drive a forklift in optimal safety conditions. Extremely simple to set up, both for the instructor and the trainee, FL TRAINER is a turnkey solution.

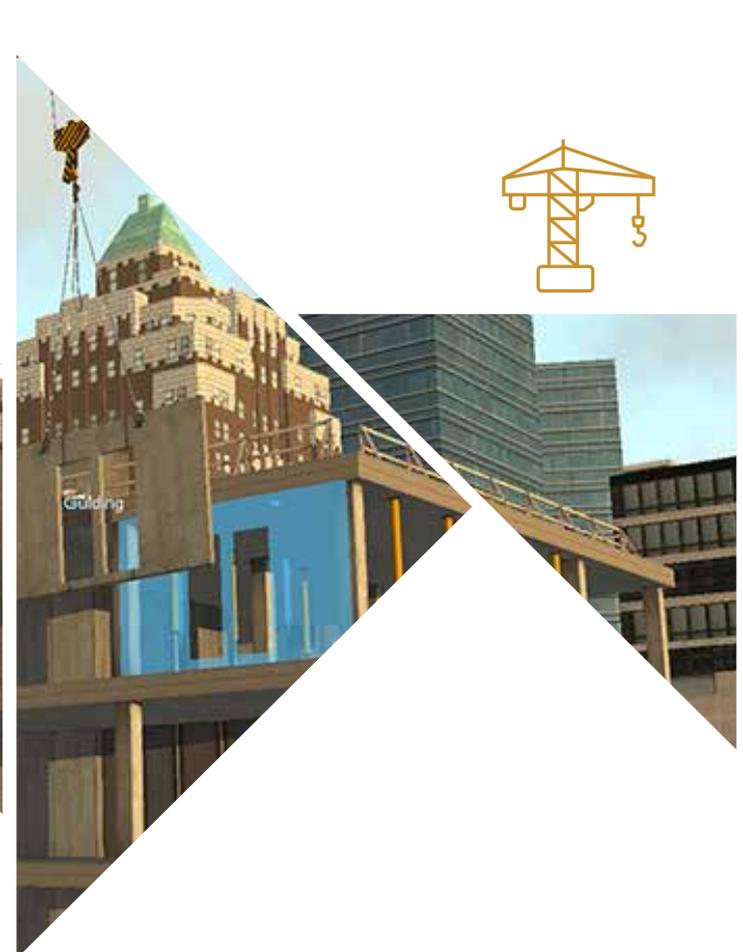
FL TRAINER makes you experience real-life work situations and teaches you how to manage the forklift handling, through a step-by-step learning path:

1. Learning of all the machine controls
2. Driving experience (loaded or empty, mandatory crossing point, wide or narrow tracks, proper positioning)
3. Management of loading and unloading operations (stack and unstack, load on a 4m pallet rack, unload from a truck, hazardous or extra-wide cargo)
4. Risk management learning: overturning on level ground, sloping ground, in dry and wet conditions
5. Driving training in the presence of pedestrians



BENEFITS

- Accident risk reduction
- Reduction of the training costs (maintenance, gas)
- improved practice time and exam success rate
- Easy and enhanced training
- Demonstration tool



VORTEX

CRANES AND
EARTH MOVING EQUIPMENT

 www.mimbus.com/products/vortex

Mimbus chose CM Lab's turnkey solution VORTEX to provide you with a turnkey driven by a touchscreen control system offers you a learning-by-doing training solution for crane operators and earth moving equipment operators.

Based on a realistic and accurate replication of the real machines behaviour, VORTEX has reached the machinery manufacturers' agreement, as well as large companies.

Among VORTEX satisfied customers are FMC Schilling Robotics, L-3, Liebherr Cranes, Lockheed Martin, NASA, Carnegie Mellon University, Manitowoc, Potain, Mammoet and over 100 other companies and academical institutions. Equally, the VORTEX simulators can be used to train operators for NCCA accredited certifications (Crane Institute Certification).

CRANES

VORTEX range of CRANES includes various machines such as: Tower crane, Mobile crane, Crawler crane, Overhead crane and Boom truck.





BENEFITS

- Motion efficiency and accuracy acquired at an early stage, before transfer to the real worksite
- Time savings during the initial training and the assessment process
- Energy cost savings, as for machine use and spare parts
- Fosters the learner's autonomy: the trainee doesn't request for the instructor's assistance so that he can focus on another group
- In-depth curriculum of increasing difficulty from beginner to expert level, from basic skills to more advanced operations with specific exercises for every machine.
- Realistic simulation: behaviour of the soils, digging, compaction, erosion, uneven ground conditions, behaviour of the wires, mechanical or hydraulic systems, operational requirements, weather conditions, failures simulations, consumption measurement.

EARTH MOVING EQUIPMENT

VORTEX range of EARTH MOVING EQUIPMENT includes various machines such as: Backhoe loader, Excavator, Drilling rig, Wheel loader and Motor grader.



THE VIRTUAL REALITY TRAINING ROOM



MIMBUS has developed the first virtual reality room dedicated to vocational training for manual skills.

These are virtual working areas where you can learn different trades. Easily adaptable, you can immediately move from one workspace to another and access a comprehensive adjustable training, far more efficient.

Fully compliant with VULCAN, the virtual training room allows you to teach learners in different work environments and scenarios while controlling the training via the CLOUD offered by VULCAN.

The work environments currently available are:

- Industrial Production: VIRTUAL INDUS, to train the following operators:
 - Production Line operator
 - Maintenance operator
 - Electrician
- Construction Industry: 4DMU, to train learners In BIM review

All the above-mentioned professional module are VULCAN compliant.

- Skill tracking: failures, speed of execution, efficiency
- Individual progress analysis
- Creation/update of the learning curriculum

MIMBUS can leverage its expertise to develop for you a customised training environment that will meet your needs, integrated in the immersive room. Don't hesitate to contact us to request a free quotation.





MULTI-TRADE

The virtual training workshop provides an all-in-one solution to train workers in several trades.



IMMERSIVE

Thanks to the latest immersive technologies of virtual reality, the learner can experience real work situations.

REALISTIC

The virtual workspace replicated by the system allows the learner to move and perform his job in realistic work postures, which is a key requirement for a skilled worker.



VIRTUAL INDUS

INDUSTRIAL PRODUCTION

 www.virtual-indus.com



Transfer your learners on a dedicated production site! This is the innovation driven by VIRTUAL INDUS. Fully immersive, it places the learner in a fully virtual environment to let him interact with the production line, in a highly realistic simulation.

VIRTUAL INDUS is co-developed by ERM AUTOMATISMES and MIMBUS. The virtual environment is based on a real training equipment distributed by ERM: POLYPROD.

PRODUCTION LINE OPERATIONS



MAINTENANCE



ELECTRICAL ACCREDITATION



Development for other equipment is being carried out, please contact us for further inquiries.

BENEFITS

- Total immersion in the work environment
- Ability to perform hazardous scenarios or complex processes impossible to implement in a real-life training
- Custom learning scripts and curriculums that can be changed at any time via VULCAN
- Customisable step-by-step training
- Savings in equipment and work surface Investments
- Multi-purpose solution allowing to use the immersive room for several training courses
- Easy use: a 10m2 room and a power outlet are enough
- Engaging training solution



4DMU EDU

BIM REVIEW

 www.mimbus.com/products/4dmu

4DMU EDU is a 3D immersive solution to review BIM projects in a collaborative way thanks to the virtual training room. BIM models come from a large scope of existing CAD tools. 4DMU EDU generates realtime 3D reviews, technical documentation and training resources. Through the full integration of VULCAN, you can design your curriculum by embedding more and more complex building models then assign this curriculum to each of your students to validate their skill acquisition.

3D exploration of the BIM model from :

- Generic standard as FBX (Revit Autodesk), 3DXML, STEP, OBJ, STL, ...
- Native format from various tools like SolidWorks (SLDPRT, SLDASM), Catia (CATPRODUCT, CATPART), Inventor (IPT, IAM).

Collaborative works with several students and instructors in the same 3D world, each having his personal view (by combining several training rooms or via desktops connected to the network).

Scene management :

- Creation and management of LOD (Level of Details)
- External reference (models, pictures, ...) by hyperlinks
- Content creation and update into the existing 3D model

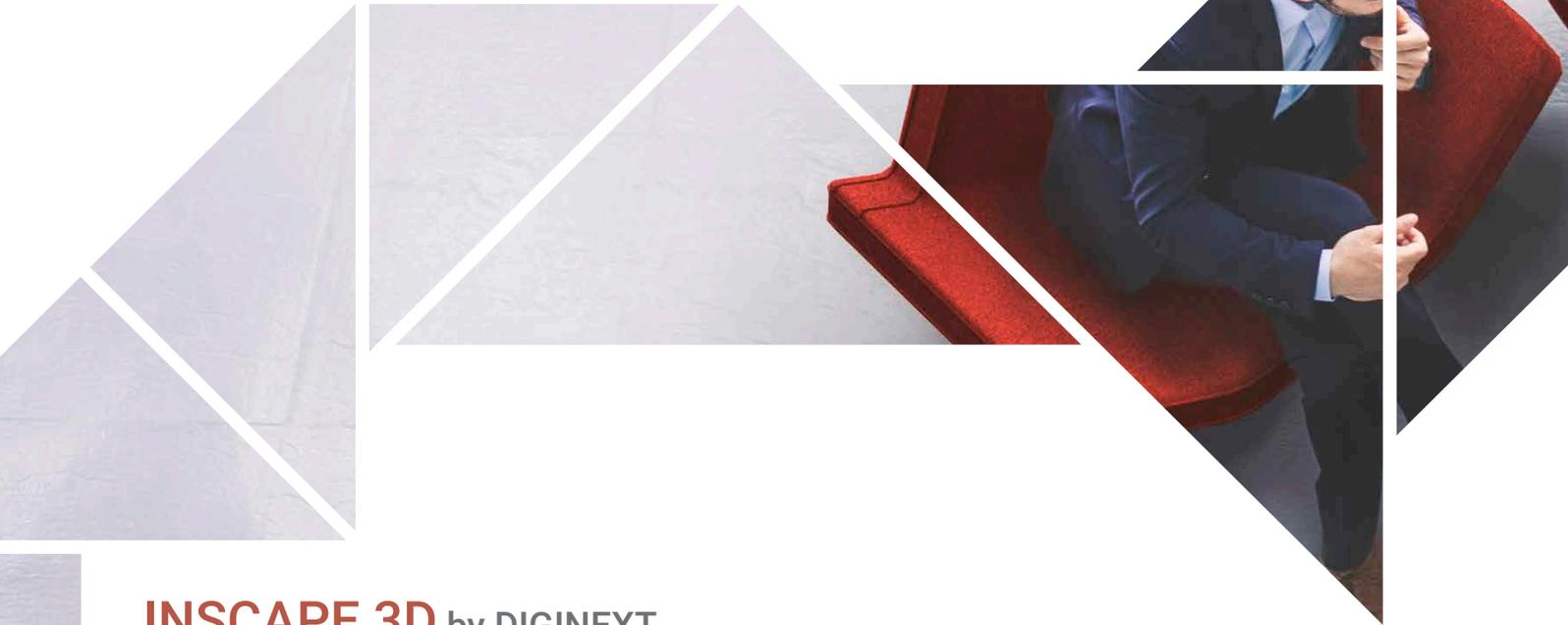
Realistic rendering option with specific lighting, material rendering, ...



BENEFITS

- Virtual visit of BIM models from CAD
- Learning tool : Looking for a proper point of view, student repositioning by instructor, student/instructor communication, tracking of the student activity
- Compliant with most of the CAD standards
- Collaborative mode with the instructor : The instructor can guide the student in the 3D immersive visit. Option for a multi-user experience (several students in the same 3D model)
- Option to develop new formats integration (contact us)

PARTNERS SOLUTION



INSCAPE 3D by DIGINEXT AUGMENTED REALITY TRAINING

 www.inscape3d.com

Teach your students how to master the use of their tools and equipments thanks to the benefits of the augmented reality technology.

Thanks to Inscape 3D, you can now offer new innovative review and training scenarios. Predesigned exercises allow to introduce and discover the added value of augmented Reality (AR) in the Industrie 4.0. The instructor can update these exercises to adapt to his needs. You can also import your own CAD models and combine them with real models to create your own training environment or ask your students to create them.



BENEFITS

- Training better by adding AR information into the real model
- Maintenance training by displaying the processes with the AR
- Setting costs reduction
- Realtime tracking of the students' activities
- Develop self-training and collaborative work



ERM RANGE by ERM AUTOMATISMES EDUCATIONAL HARDWARE-BASED SOLUTIONS

 www.erm-automatismes.com

ERM distributes the hardware to complete your virtual training solution. The product range covers a solid set of trades and comes with the associated documentation for the instructor and the learners, to build your own customized training courses.

For some professional fields like the production line related trades, the ERM products ideally complement MIMBUS virtual offer.

BENEFITS

- Complete your virtual training with an effective implementation on real equipment
- Wide range of training solutions for all skilled trades in the industrial field
- Proven products widely deployed among French-speaking training organizations



SHARIING ACCESS by IMMERSION COLLABORATIVE CLASSROOM TRAINING

 www.shariing.com

IMMERSION is MIMBUS long-time partner and the leading French expert in digital solutions. Through their range SHARIING and in particular the entry level solution ACCESS, IMMERSION offers a very affordable collaborative solution to equip classroom groups of 4 to 8 students.

Students can exchange information, share up to 4 screens on the same interactive board, and progress together towards the same objective.

This tool is a perfect complement to MIMBUS simulators and the VULCAN platform.



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