



## PRODUCT CATALOG



**TRANSPORTATION**  
SIMULATION TRAINING



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# COMPANY MILESTONES

## RECENT SELECTED HIGHLIGHTS



Light rail vehicle simulator using a replica  
Bombardier cab delivered to Toronto Transit (TTC). **2013**



FAAC creates world's first battery electric bus  
simulator for New Flyer's Vehicle Innovation Center. **2017**



Redesigned MB-1000 and MB-2000 bus  
simulators (new vehicle dynamics, steering  
system, motion platform, fully upgraded realistic  
virtual training world "Safety City," electric bus  
training features, and upgraded VITALS training  
assessment tool). **2020**



FAAC collaborates on one of the world's first  
Autonomous Truck Simulators **2022**



**1991**

1st fully interactive tractor-trailer  
truck simulator.



**2001**

1st in U.S. providing a fully interactive  
Fire/EMS driving simulator. 1st in  
U.S. with motion seat providing 3  
degrees-of-freedom.



**2004**

A Public-Private Partnership, FAAC  
delivers state-of-the-art, full-scale  
LRVSim, utilizing actual Siemens cab  
and custom alignment – Houston  
Metro.



**2007**

New York City Transit Rail Simulator  
with R160 replicated cab, 6DOF  
motion, and geo-specific rail  
alignment including the block signal  
system.



**2010**

Largest Public Safety delivery  
in history of the U.S. 108 Law  
Enforcement simulators to  
California's Police Officers Standards  
& Training program.



**2011**

FAAC's largest single contract award  
Virtual Clearance Training Suite  
(VCTS) (\$125M). 140 mobile units,  
686 training stations and deployed  
in 28 locations.



**2012**

FAAC awarded contract to design,  
produce and field 17 KC-135 Boom  
Operator Simulation Systems  
(KC-135 BOSS) for the  
Air National Guard.



**2013**

**2015**

York Region Transit chooses newly  
designed MB-2000 bus simulator  
for their operator training program.  
Included custom database matching  
their city roadways.

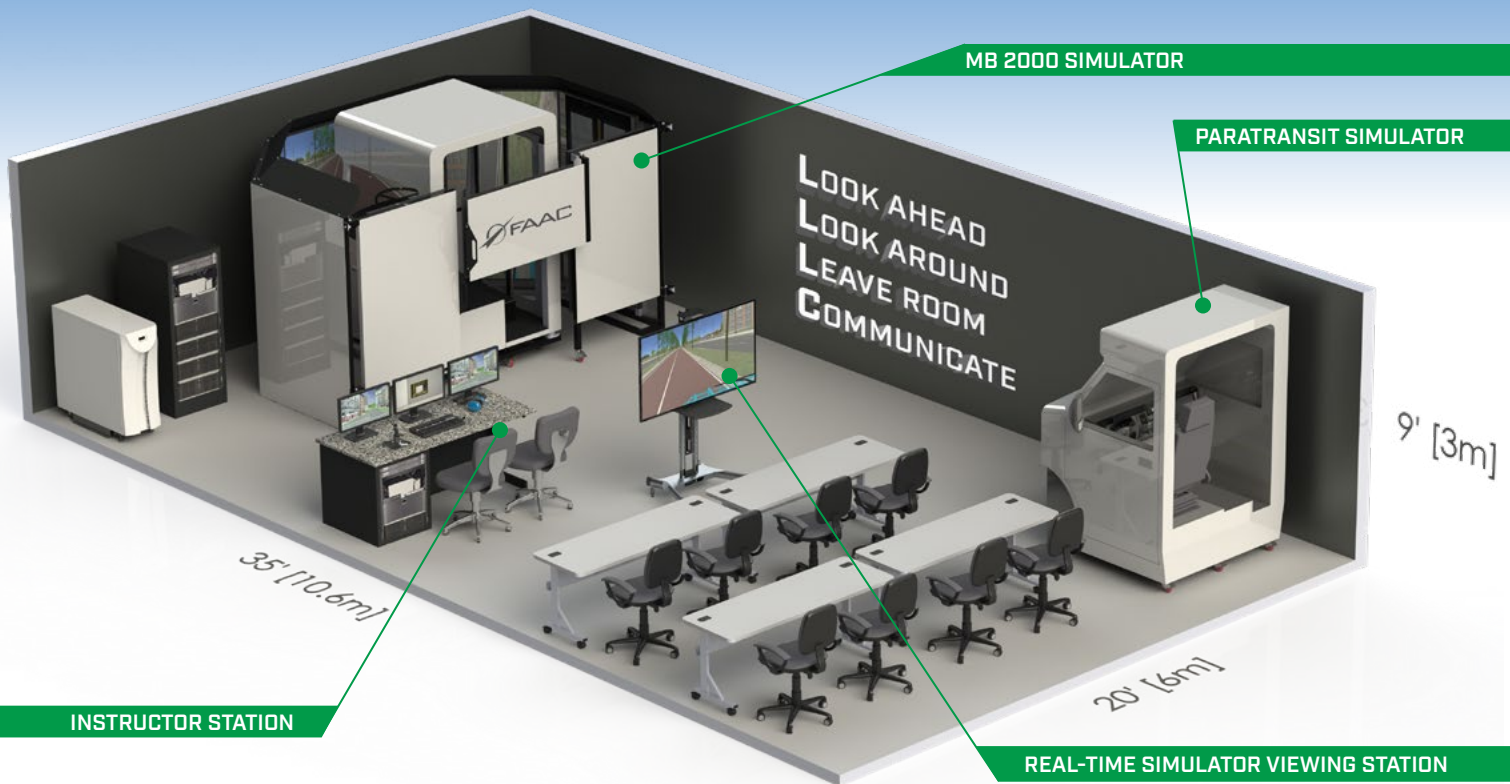
**2017**

**2020**

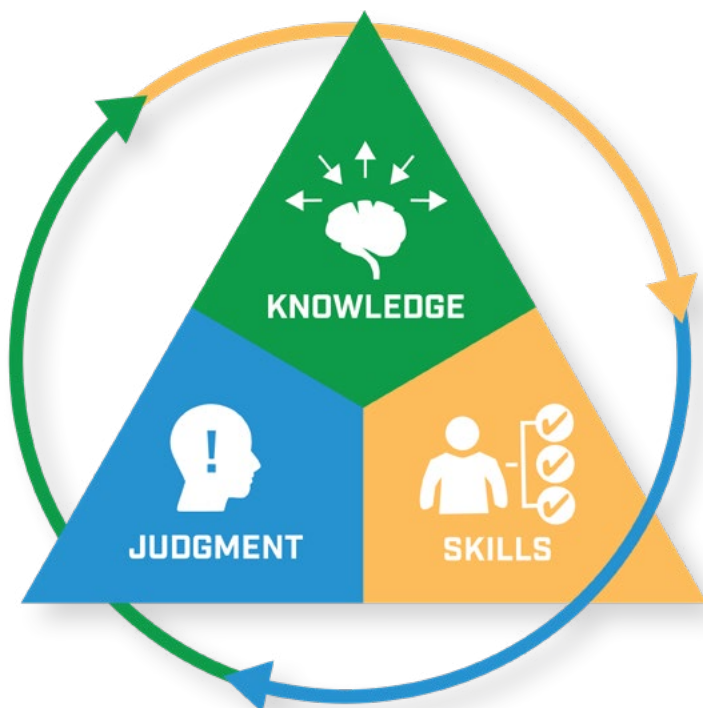
**2022**

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## THE VALUE OF AN ACTIVE LEARNING ENVIRONMENT



Simulation training requires student operators to apply their knowledge, skills, and judgment in a way that facilitates learning. With an active learning environment, student operators are provided a chance to learn-by-doing, while learning from each other.



**IMMERSIVE  
EXPERIENCE**  
Practice until perfect.



**WORKFORCE  
DEVELOPMENT**  
Advance together.



**MEASURABLE  
RESULTS**  
Through equitable evaluations.

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## The most realistic training experience available

The MB-2000 Bus Simulator is the highest-fidelity simulator available for training transit bus operators. This fully customizable system provides a true-to-life experience that prepares operators for real-life driving environments.

## MB 2000

FAAC  
BUS OPERATOR TRAINING SIMULATOR

- Zero Emission Bus Catalog
- Side-to-Sky Viewing Angles
- Real Flat Glass Mirrors
- OEM Driving Compartment
- Integrated Cab-Only Motion System providing realistic and real-time feedback from the driving environment
- **RESPONSE SITUATIONAL SIMULATOR:** Embedded situation awareness simulator that prepares operators for realistic passenger interactions

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The Paratransit simulators are created from a de-commissioned vehicle, donated by the customer. The MB 2000 and paratransit cabs are interchangeable so you can swap this paratransit cab using the shared system resources, or it can be purchased as a standalone training system.

## PARATRANSIT FAAC OPERATOR TRAINING SIMULATOR

- Actual Fleet Vehicle
- Side-to-Sky Viewing Angles
- Real Flat Glass Mirrors
- Integrated Cab-Only Motion System providing realistic and real-time feedback from the driving environment
- **RESPONSE SITUATIONAL SIMULATOR:** Embedded situation awareness simulator that prepares operators for realistic passenger interactions

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## MB 1000

FAAC

BUS OPERATOR TRAINING SIMULATOR

- Compact Equipment Footprint
- Digitally Rendered Mirrors
- Functional Levers, Gauges & Switches
- Integrated Cab-Only Motion System providing realistic and real-time feedback from the driving environment

The MB-1000, with its more than 225-degree field-of-view capability, realistic dash controls, and optional motion system, is a testament to the innovative solution FAAC provides to the transit industry.

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The TT 2000 Truck Simulator is the highest-fidelity simulator available for training truck operators. This fully customizable system provides a true-to-life experience that prepares operators for real-life driving environments.

## TT 2000

FAAC

TRUCK OPERATOR TRAINING SIMULATOR

- Side-to-Sky Viewing Angles
- Real Flat Glass Mirrors
- Push-to-talk Radio
- OEM Driving Compartment
- Snowplow Control Integration
- Integrated Cab-Only Motion System providing realistic and real-time feedback from the driving environment

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The TT 1000, with its more than 225-degree field-of-view capability, realistic dash controls, and optional motion system, is a testament to the innovative solution FAAC provides the Transportation industry.

## TT 1000

FAAC

TRUCK OPERATOR TRAINING SIMULATOR

- Fully-Operational Truck Controls with Functioning Gauges & Switches
- Digital Dash for Various Configurations
- Virtually Rendered Mirrors
- Doppler Effect Sound Configuration & CB Radio
- Integrated Cab-Only Motion System providing realistic and real-time feedback from the driving environment

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The Desktop simulator provides a compact design that is easily transportable. This simulator can be deployed at scale, providing classrooms of student operators a chance to learn a wide variety of simulation activities collectively.

## DESKTOP Operator Simulator

- Optional Configuration for all Transportation Simulators
- Compact Equipment Footprint
- Simple Setup and Transportable
- Digitally Rendered Mirrors
- Ideal for Introducing Simulation





# LR2000

FAAC

RAIL OPERATOR TRAINING SIMULATOR

- 1-for-1 Cab Replica with Authentic Controls
- Geo-Specific Training Environments
- Accurately displays operator location, preceding train, signals, signs, stations, switch state, faults, events and current route

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# LR1000

FAAC

## RAIL OPERATOR TRAINING SIMULATOR

- Compact Equipment Footprint
- Authentic or Generic Components
- Geo-Specific Training Environments
- Accurately displays student location, preceding train, signals, signs, stations, switch state, faults, events and current route

Realistic environments provide real experience. Learn correct manipulation of cab controls, safe operating practices, appropriate traction and brake application practices, and various elements of safety procedures and signaling.

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# RESPONSE

## SITUATIONAL SIMULATOR



### Prepare bus operators for passenger interaction

“What should I do next?” FAAC’s Response Situational Simulator features interactive scenarios that are embedded on the rear monitor of MB 2000 and Paratransit simulators. Operators practice de-escalation, emergency response procedures, and passenger interactions with this comprehensive training solution.

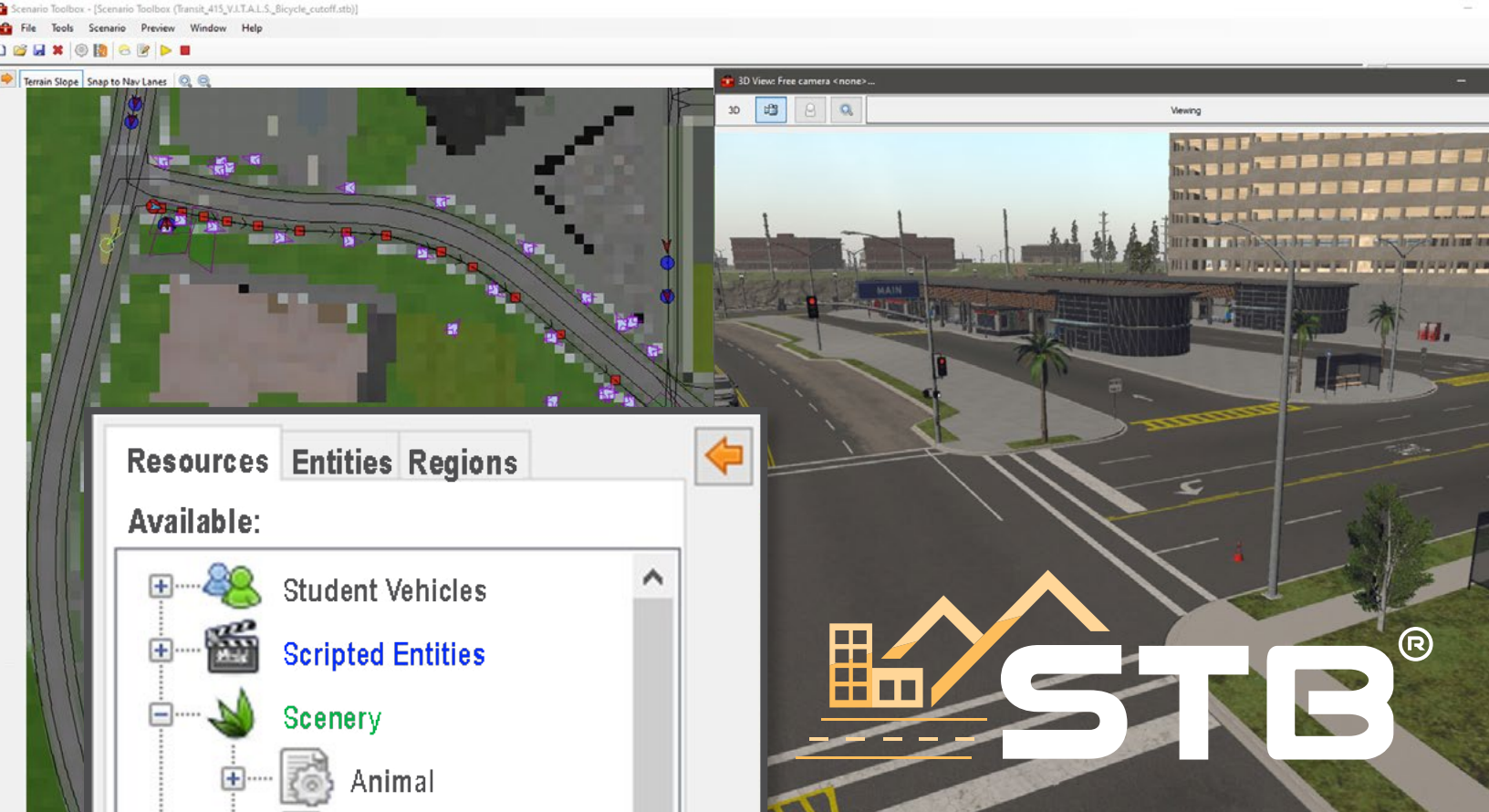
### RESPONSE Situational Simulator

- Interactive scenarios are embedded on the rear monitor of MB 2000 and Paratransit simulators
- Operators practice radio commands, verbal feedback to passengers, and securing the bus during an incident
- Scenario branching is directed by the instructor who chooses the scenario progression according to operator reactions
- Choose from ready-made scenario packages or have custom scenarios filmed on location

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Scenario Toolbox™ (STB) is a powerful software tool that enables users to create new predefined scenarios. STB gives users the ability to control, within the scripted scenario, objects, and events in the virtual world, providing additional challenges or testing students on specific tasks. With a few simple keystrokes, customers can edit and enhance existing scripted scenarios or create new ones from their own experiences.

## SCENARIO TOOLBOX Software for Building Custom Driving Scenarios

Instructors can create scenarios that provide a wide range of learning options for the student operators.

- Skill Builders
- Mirror Position
- Right Turns
- Left Turns
- Corrective Actions
- Accident Reconstruction
- Customize to Agency Policy

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Edit	Sim Time	Assessed Item Name		Description	Instructor Override	Instructor Comment
<input type="button" value="EDIT"/>	0:00	Following Distance Test	Distance Less Than 3 Seconds	Keep a Safe Following Distance	Override	
<input type="button" value="EDIT"/>	0:23	Use Turn Right Signal	Used Turn Signal	This Is to Test Turn Signal Use		
<input type="button" value="EDIT"/>	0:32	Front and Rear Right Tires In Region	Front Right and Rear Right Tires In Region	Both Front Right and Rear Right Tires Should be Inside Region		



Thomas Lee

Average  
SCORE  
43 %

Average Score

Miles Driven <b>8.721</b>	AVG SCORE <b>43 %</b>	Best SCORE <b>92 %</b>	Worst SCORE <b>1 %</b>
Scenarios Completed <b>17</b>	AVG Energy SCORE <b>48</b>	Best Energy SCORE <b>87</b>	Curb Kicks <b>4</b>

Energy Score



Student Progression

PATENT PROTECTED

## Maximizing technology through proper training

VITALS acts as an interactive playbook for the instructor. It helps them engage each trainee objectively, implementing the policies that operators should learn, and identify areas of strength and improvement.

## VITALS Virtual Instructor Trainee Assessment & Learning System

- Capture and Monitor Student Performance
- Standardized and Objective Assessment Process
- Analyze Performance and Debrief while Minimizing Individual Instructor Filters and/or Bias
- Operator Performance Dashboard Recommends Areas for Improvement







## THE LEADERS IN SIMULATION



**DESIGNED FOR  
LEARNING**



**CROSS-INDUSTRY  
EXPERTISE**



**ADAPTABILITY  
& INNOVATION**



**INSTRUCTOR  
DEVELOPMENT**



**HIGHEST QUALITY  
STANDARDS**




**CONTINUED  
DEDICATION**

Innovation comes from a commitment to do more, learn more, and challenge existing paradigms. With over 50 years of product development, sustenance, and innovation, we are continually improving not only what we do but how we do it.



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