



# DSC 2019 EUROPE VR

Driving Simulation & Virtual Reality Conference & Exhibition



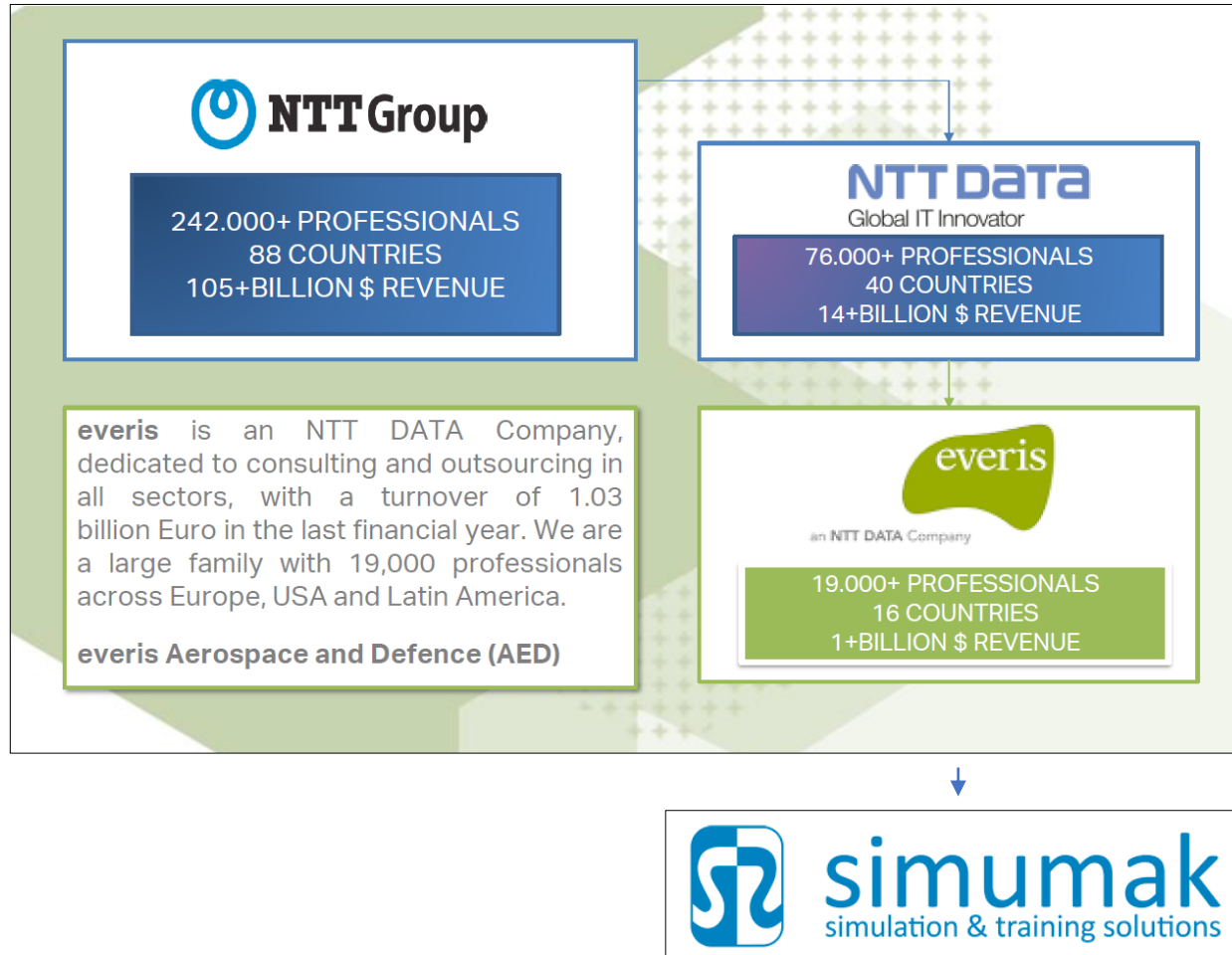
**simumak**  
simulation & training solutions

## **Simulation & VR Strategies for smarter training**

Luis Huete, Product Manager (Automotive division)

David Morán, Cofounder & CTO

# WHO WE ARE?



19

*International presence (sales & aftermarket) in 19 countries.*

5.000

*+5.000 simulators installed worldwide.*



# WHO WE ARE?



2003-2008

- Engineering company focused on the development of simulators for training.
- Civil Construction simulators (projects)
- Mining simulators (projects)

2008-2012

- Product philosophy
- SIMESCAR HW/SW
  - Motion Platforms
  - Simulation Cloud
  - Register +20 patents

2013-2015

- Brazil contract (+5000 simulators)
- Creation of the Factory
- +100 workers
- +20 car sim/day
- Creation of the aftersales department
- +200 workers
- International expansion -> dealer network

2015-2017

- Development and improvement of new products
- SIMESTRUCK
  - MAQSIM
  - MINESIM
  - 4X4
  - SNOWPLOW SIM
  - MORTAR CARRIER SIMULATOR

2018

- Improvement of products
- LOGSIM
- SIMESBIKE
- TRAINING MANAGER
- VR / MR / AR Lab
- Factory in Brazil
- ...





# WHAT WE DO?

## **TRAINING SOLUTIONS**

Simumak offers initial and continuous training focused on learning new skills and updating the knowledge already acquired.

## **QUALIFYING SOLUTIONS**

Simumak offers solutions for safety training and efficient driving based on a certain level required to professional drivers of heavy vehicles.

## **CERTIFICATION SOLUTIONS**

Simumak proves the acquisition of the level required by an entity to drivers and operators to manipulate machines or driving vehicles.

## **OCCUPATIONAL RISKS PREVENTION SOLUTIONS**

Simumak provides the necessary awareness to promote safety and health of workers through the identification, assessment and control of occupational risks associated to the work environment.

## **MARKETING SOLUTIONS**

Simumak develops attractive solutions to capture the interest of the public and to increase the differential value of a Brand regarding to its competitors.

## **ENTERTAINMENT SOLUTIONS**

Simumak allows to live through attractive experiences to the user through exercises and virtual environments in their simulators specialized in offering distraction and fun.

## **INSTRUCTION AND MILITARY DOCTRINE SOLUTIONS**

Simumak allows to follow and learn military doctrines with which to establish, strengthen and preserve the concepts and principles learned reacting strategically.

## **BUSINESS SOLUTIONS**

Simumak develops customized solutions adapted to its clients' needs, offering and added value to their business models.



# OUR PRODUCTS

## CONSTRUCTION

- **BHL Maqsim**  
Backhoe Loader
- **WLS Maqsim**  
Wheeled Loader
- **Liftsim**  
Forklift truck
- **360W Maqsim**  
Wheeled Excavator
- **360T Maqsim**  
Tracked Excavator
- **Manisim**  
Telescopic Handler



## MINING

- **BD Maqsim**  
Bulldozer
- **Jumbo**  
Rocket Boomer E2C
- **LHD**  
Underground Truck
- **RD Maqsim**  
Rigid Dumper
- **AD Maqsim**  
Articulated Dumper
- **LHD**  
Underground Loader



## DEFENSE AND SECURITY

- **MORTAR Carrier**  
ALAKRAN Mortar carrier simulator  
4x4 vehicle
- **Vortex**  
EOD Robot



# OUR PRODUCTS



Car simulator

**SIMESCAR**



Heavy vehicles simulator

**SIMESTRUCK**



Motorbike simulator

**SIMESBIKE**



## OUR SIMULATORS ALLOW

- Getting used to the vehicle handling
- Learning the basic maneuvers to obtain the driving license
- To be exposed to adverse situations without risk
- To face different scenarios and weather conditions

## ADVANTAGES

- It increases user's confidence
- It improves the quality in the learning process
- It increases the concepts retention across the exercises' reiteration
- It improves user's safety by practicing risk situations



# OUR PRODUCTS



## PORTABLE VR

*Plug&Play*  
*Portable*  
*Mixed Reality*



## SILVER

*Mid immersion*  
*2DOF Motion*  
*Platform optional*  
*Real vehicle*  
*components*



## GOLD/+VR

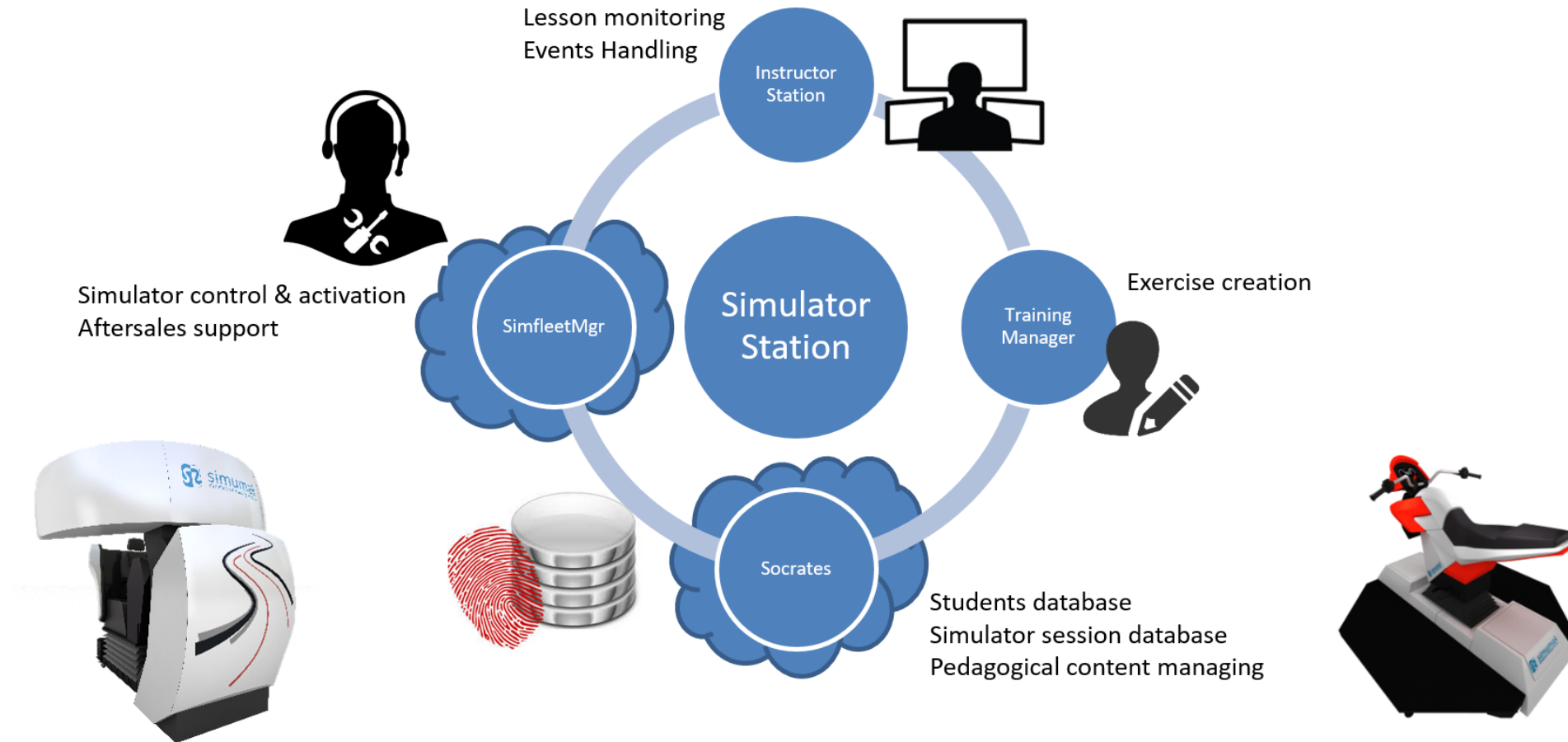
*Mid immersion*  
*3DOF Motion*  
*Platform*  
*Real Vehicle*  
*components*  
*Mixed Reality*  
*module optional*



## PLATINUM

*High immersion*  
*3DOF Motion*  
*Platform*  
*Real Vehicle*  
*components*

# OUR PRODUCT ENVIRONMENT

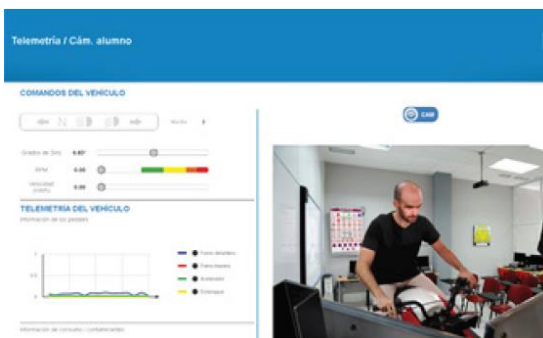




# PRESENTING AT DSC 2019: SIMESBIKE VR



# PRESENTING AT DSC 2019: SIMESBIKE VR



SEVERAL SCENARIOS

SEVERAL METEO AND ROAD CONDITIONS

DESIGN YOUR OWN EXERCISES

PARAMETRIC DYNAMICS SYSTEM

INTEGRATED REPORTS



*THANKS FOR RIDING!*



simumak