



DSC 2018 EUROPE VR
Driving Simulation & Virtual Reality Conference & Exhibition



XPI Simulation – World-Leading Driving Simulation and Advanced Synthetic Environments

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Palais des congrès - Antibes

September 5, 2018

Introduction to XPI Simulation

- XPI formed in 2005
 - Specialist developer of driving simulation software and integrator of driving simulators
 - Activities range from desktop simulators, to car conversions and full systems on motion bases
 - Customers across local government, emergency services, training providers, motorsports, academia and defence
 - Currently c. 40 employees
 - Based in Chessington, South West London
- Acquired by Thales in November 2013



Product and Project Overview

- Products:

- XP300 – desktop
- DS1 – single-seat
- DS2 – full-car



XP300



DS1



DS2

- Projects:

- Toyota Motorsport
- South Wales Police
- Warwick University
- Scout (AJAX)
- Modal Training



Toyota Motorsport



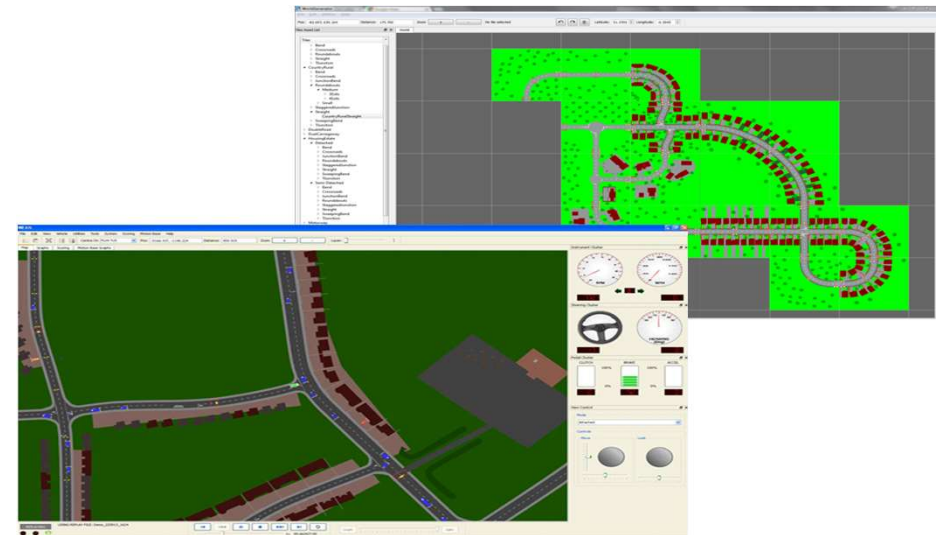
Warwick University



Scout (AJAX)

Key Capabilities

- Full suite of driving simulation software
 - Civil and military driver training
 - Behavioural analysis
 - HMI development
 - Open, flexible architecture
 - Scenario and database creation tools
- Synthetic environment development
 - LiDAR scanned geo-specific databases
- Leading provider of research for UK Defence Science and Technology Laboratory (Dstl)
 - Advanced synthetic environments
 - Use of consumer technology (VR/AR) for military training



Connected Autonomous Vehicles

- Seeking to address the 5 billion mile challenge identified by RAND through simulation-based testing
- No framework currently exists to enable results from simulation-based testing to form part of a certification activity
- Leading CCAV-awarded feasibility study examining Certification of Autonomous Vehicles in Synthetic Environments (CAVinSE)
- Key partner in OmniCAV project addressing development of a rural-focused simulation and testing environment



XPI Differentiators

- Proven simulator-based military driver training solution – validated by Dstl
- High-fidelity 3D databases from LiDAR capture
- Expertise in full-car conversion
- Modular and extensible architecture
- Turnkey systems integrator
- Cross-domain knowledge

