





RICARDO SOFTWARE

An integrated Approach to the Analytical Powertrain

Ricardo Software products' workshop

Torino, 17° of January 2013







Shoreham Room

- Welcoming and introductions (8:30-9:15)
- Mechanical Dynamics
 - VALDYN Timing and Auxiliary Drive Analysis (9:15-10:45) Dave Bell
 - Introduction
 - Best practices
 - Cranktrain Analysis using ENGDYN and VALDYN (11:00-12:30) Dave Bell
 - Introduction
 - Best practices

Detroit Room

- Vehicle System Analysis
 - IGNITE (New Release) (9:15-10:45) Tyson Stewart
 - Presentation of the new simulation tool for vehicle systems
 - Current state of development
 - Under-hood analysis (11:00-13:00) Nick Tiney
 - Introduction
 - Best practices



17° January - afternoon



Shoreham Room

Fluid dynamics and Perfos

- WAVE (14:00-14:30) Patrick Niven
 - Status and feature update
- HiL tools: (14:30 15:45) *Jiri Navratil*
 - WAVE-RT: presentation
 - Best practices: implementation on HiL platforms
- 1D-3D simulation (16:00-17:00) Patrick Niven
 - VECTIS WAVE Integration
 - Best practices; EGR distribution
 - WAVE3D

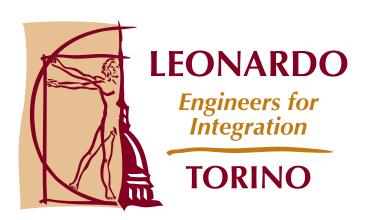
Detroit Room

• 3D Fluid/structural analysis

- VECTIS In-cylinder (9:15-10:45) Nick Tiney
 - Introduction
 - Best practices

• 3D Mechanical Tools

- FEARCE + VECTIS (15:00-15:45) Ray Sullivan & Nick Tiney
 - Joint thermo-structural analysis;
 - Best practices
- Structural Analysis (16:00-17:45) Ray Sullivan
 - Piston Dynamics with PISDYN+RINGPACK
 - FE integration with FEARCE





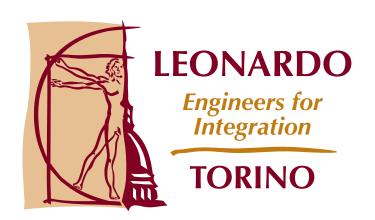


Prague Room

• Management Roundtable

(11:15-13:00) Dave Higbie, Patrick Niven

- Introductory points for an open discussion :
 - Reduction of R&D costs through reduction of physical prototypes;
 - Ricardo's global approach to simulation;
 - Virtual prototype
 - Unique proprietary GUI
 - Ricardo SW support strategic view







Intervening relators

• Dave Higbie: Ricardo SW President and Global director

• Patrick Niven: Ricardo SW Global Product manager

• Ray Sullivan: Ricardo SW FEARCE Product Manager

• Nick Tiney: Ricardo SW VECTIS Product Manager

• Tyson Stewart: Ricardo SW IGNITE Product Manager

• Dave Bell: Ricardo SW Mechanical Suite and FEARCE Development Manager

• Jiri Navratil: Ricardo SW Technical Support Manager