

OpenDRIVE

managing the road ahead

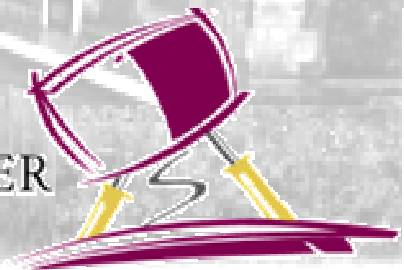
2nd Meeting

25 April 2006

M. Dupuis



DAIMLERCHRYSLER
Driving Simulator



Licensing Issues

- OpenDRIVE is an open format, not a public format
 - it emerged out of a co-operation of DaimlerChrysler and VIREs
 - if it's not owned it's not well maintained
- The specification is publicly available on www.opendrive.org
- Use of the OpenDRIVE format is free and no longer subject to a license agreement (starting at version 0.7)
- Users are asked to indicate which version of OpenDRIVE they support (e.g. „supports OpenDRIVE Vx.x“)
- Users of OpenDRIVE are asked to refer to „www.opendrive.org“ in their documentation

- The trademark, website and data format are owned by VIREs
- VIREs maintains the data format, the website and the information exchange within the OpenDRIVE community

Open*DRIVE* - managing the road ahead

Open*DRIVE* 0.7

- Full XML version of OpenDRIVE V 0.6 including minor extensions and modifications
- Binary version will become obsolete
- No license restrictions
- Release: May 02, 2006
- Includes
 - schemata file
 - sample file
- New file extensions:
 - .xodr (uncompressed version)
 - .xodrz (compressed version)

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OpenDRIVE 0.7 (cont'd)

- Changes vs. OpenDRIVE V0.6:
 - stronger grouping of contents
 - planview
 - lanes
 - left / center / right
 - elevation profile
 - crossfall profile
 - signals
 - links between roads may be predecessor, successor and neighbor
 - road marks are separated from width entries

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Open*DRIVE* 0.7 (cont'd)

Detailed review of the sample file

Open*DRIVE* 1.0 – Proposed Extensions

- Extensions to OpenDRIVE V0.7:
 - introduction of splines as primitives
 - introduction of lane profiles
 - introduction of lane attributes
 - maximum speed
 - tunnel
 - bridge
 - access restrictions
 - introduction of linear features along road

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Roadmap

- Management of OpenDRIVE will be continued by VIRES
- May 15, 2006
 - Establishment of core team
 - quarterly meetings (depending on incoming requirements)
- June 15, 2006
 - Release of OpenDRIVE V 1.0
- October 2006
 - Presentation of OpenDRIVE at DSC, Paris
- December 2006
 - Release of OpenDRIVE V 1.1

Establishment of a Core Team

- Tasks:
 - review of pre-releases of future versions of OpenDRIVE
 - discussion of incoming requests for extensions
- Team members must be listed as partners on the website
- All industry sectors should be included
 - simulator users (automotive industry)
 - simulator manufacturers
 - independent research institutes
- Current members
 - DaimlerChrysler Driving Simulator, Berlin
 - VIRES Simulationstechnologie GmbH
- Any volunteers?