MyHMI

- Primary guidance in MyHMI framework development:
 - vehicle infotainment and instrument cluster applications
- extensions of those applications
 - automation and process control industries







Beginnings of MyHMI development











What HMI trends resulted in?

Deep gap in HMIs market:



Graphically expressive HMI solutions, with propreritary communication and processing mechanisms

Solutions with vast processing and communication possibilities, but plain graphics







Bridging the gap



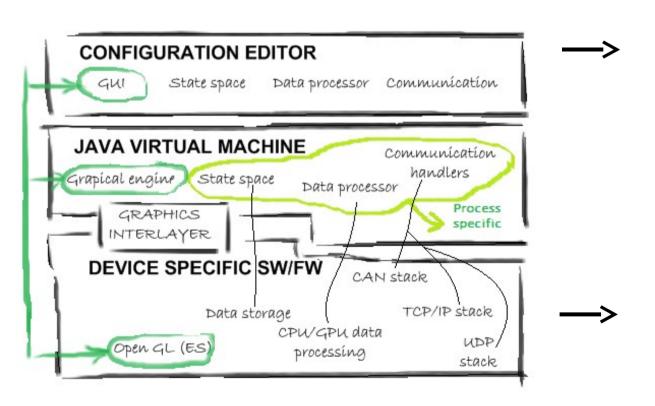




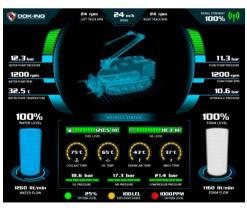


MyHMI & Jogamp

- Designed as a multiplatform framework
 - Java → CPU agnostic development
 - Jogamp's Jogl → GPU agnostic development













MyHMI framework

- Modules
 - Display (widgets, primitives, animations)
 - Communication (UDP, TCP/IP, CAN, serial...)
 - Data processing

- hr.doking.automotiv.managers
- → H hr.doking.automotiv.opengl.animation
- hr.doking.automotiv.opengl.primitives
 - AnimatedSquare.java 2750 08.04.13. 10:28 nenad
 - CharacterSquare.java 2750 08.04.13. 10:28 nenad
 - Circle.java 1964 28.11.12.14:41 nmiodrag

 - Delta CurvedBar.java 2801 11.04.13.10:33 alan.sambol
 - Cylinder.java 2359 19.12.12.11:48 nmiodrag
 - Graph.java 2302 16.12.12.14:36 nmiodrag
 - Grid.java 1964 28.11.12. 14:41 nmiodrag

 - HorizontalBar.java 2794 10.04.13. 14:51 alan.sam
 - ▶ Label.java 3100 11.07.13.13:57 nenad.miodrag
 - LinedMesh.java 1964 28.11.12.14:41 nmiodrag
 - Mesh.java 3097 11.07.13. 13:21 nenad.miodrag
 - Sphere.java 1849 08.11.12. 15:42 asambol
 - Square.java 2928 27.06.13. 08:45 nenad.miodrag
 - StripGraph.java 2302 16.12.12. 14:36 nmiodrag
 - Torus.java 2359 19.12.12. 11:48 nmiodrag
 - Trail.java 3075 09.07.13. 16:34 nenad.miodrag
 - ▶ TrendingMesh.java 2302 16.12.12.14:36 nmiodra
 - WFObject.java 2844 16.04.13. 10:09 alan.sambol
- hr.doking.automotiv.opengl.shaders
- hr.doking.automotiv.opengl.utility
- hr.doking.automotiv.opengl.widgets
- > 🏭 hr.doking.automotiv.processors







MyHMI approvals in industries LOOX instrument cluster

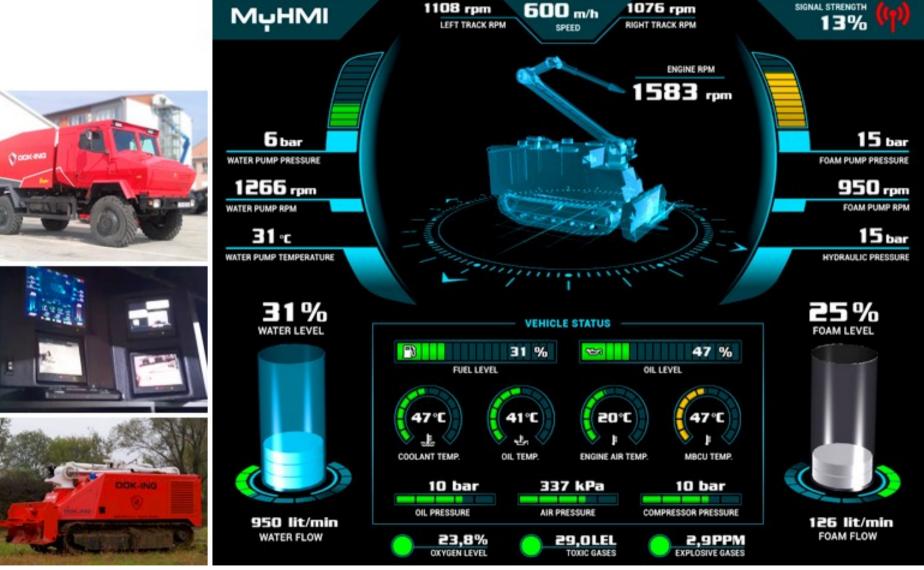








MyHMI approvals in industries UNIMOG control center









MyHMI approvals in industries SCADA / remote control

