

Agenda

- Background QNX Pedigree
- Connectivity
 - Connectivity to consumer devices
 - Connectivity to cloud
- Future connectivity solutions



Customer pedigree

Deployed by over 40 OEMs in 275 vehicle models and 25 million vehicles throughout North America, Europe, and Asia













Around the car

Within the vehicle

To handheld devices

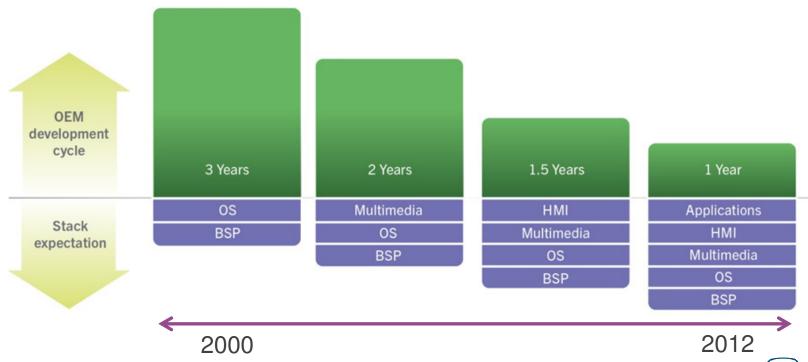
To the cloud







Trend: Development Cycles Software Platform





Current State of Device Connectivity

VNC (MirrorLink)



Devices:

- BlackBerry
- Android
- Nokia

Pros

Many Apps No changes to car necessary Apps work "out of the box" Many Developers Refresh Car Post Sale Uses Consumers Data Plan

Cons Poor Performance **OEM loses Brand** Distraction risks Apps made for 0 MPH Apps made for small screen

Remote Skin (Pandora Link)





Devices:

- BlackBerry
- Android
- iPhone

Many Developers Keeps OEM Brand Uses Consumers Data Plan Uses existing Auto tech OEM controls distraction

Apps do not work "out of box" Require close cooperation with Phone / App makers

Video / Remote (iPod Out)





Devices:

- iPhone
- iPod
- iPad

Many Apps / Developers Apps work "out of box" Refresh Car Post Sale Great performance Consumers mobile Data

Distraction risks **OEM** loses brand UI simplified for distraction Expensive hardware / video

Hybrid Application (Hybrid Nav)





Devices:

- BlackBerry Android
- •iPhone

Many Developers Refresh Car Post Sale Consumers mobile Data Keep OEM Brand Uses existing Auto Tech

Apps do not work out of box Require close cooperation with Phone / App makers



Next Generation Device Connectivity

- HTML
- HDMI
- NFC



Next Generation Device Connectivity - HTML

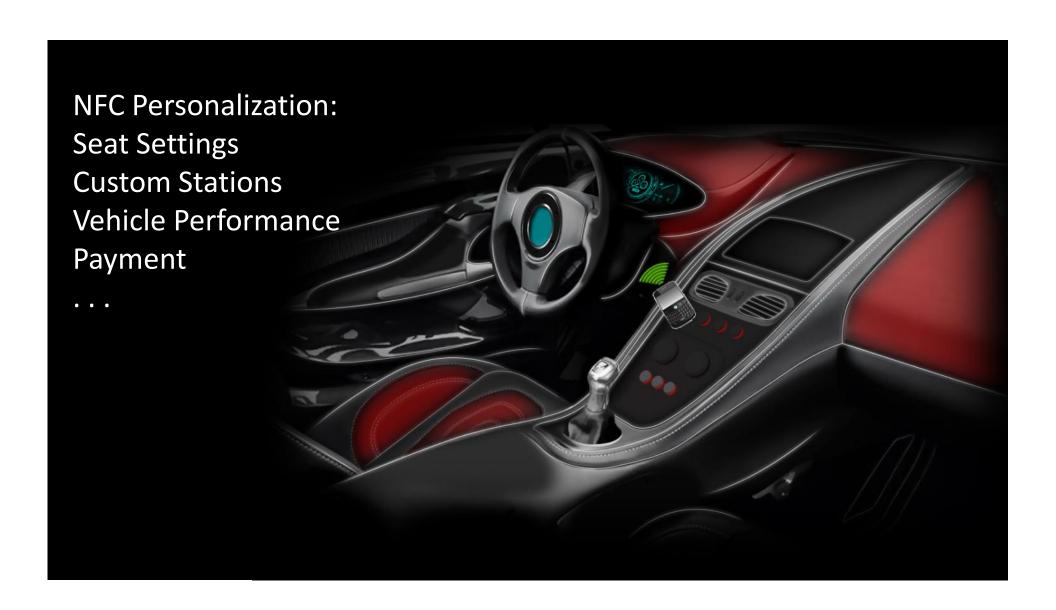


Next Generation Device Connectivity – HDMI / USB











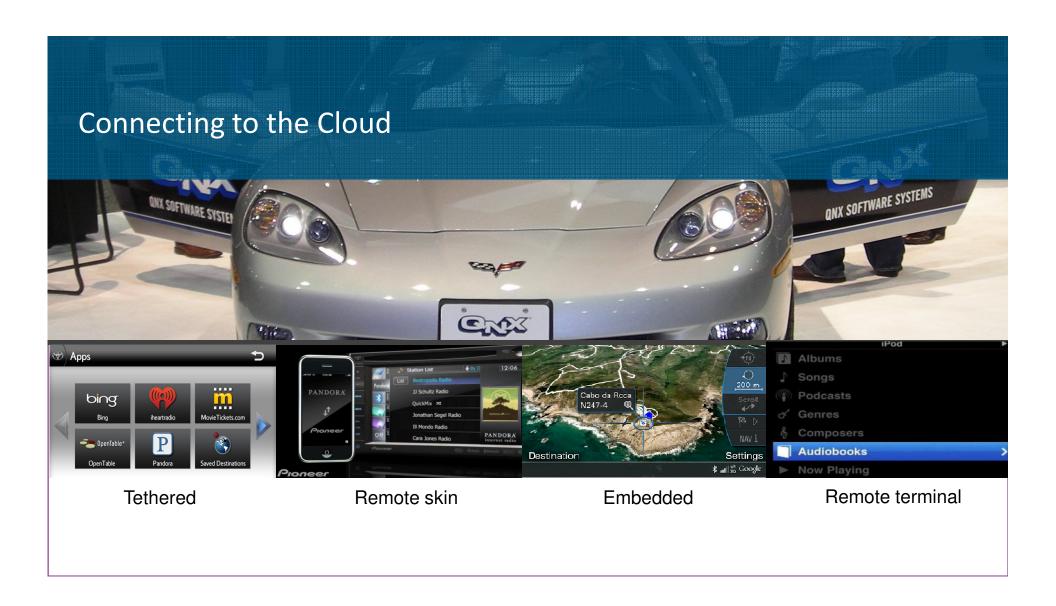
Toyota and Microsoft Azure Announcement

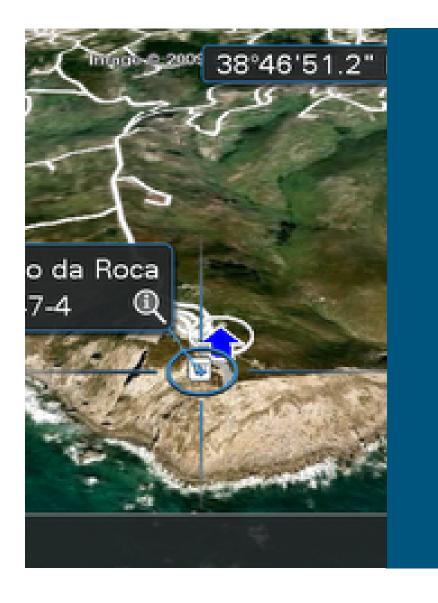
Cloud based music platforms

Hybrid and off-board speech

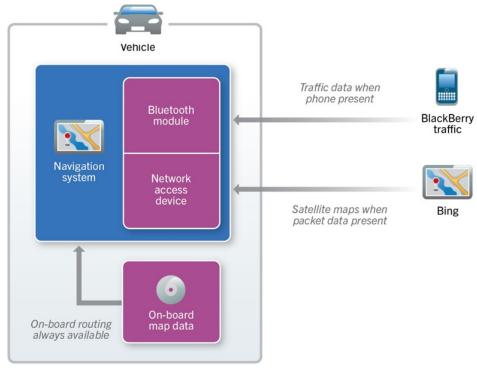
Off-board Maps, Points Of Interest and Search

Trend: The Cloud is here





Hybrid Navigation





Future Connectivity Solutions

- MHL
 - Provides HD Video / HD Audio / Remote Control
 - Allows for charging of device and back channel
 - Uses existing physical connector but extra HW required
 - Will it be adopted by the ecosystem?
- USB 3.0
 - Provides bandwidth to do HD Video / Audio / IP control
 - Well understood technology and used throughout ecosystem
 - Definition of good IP based Video / Audio standards required





