UX Concepts and Design
Digital Clusters and Head-Up Displays
Infotainment and Rear Seat Entertainment Systems
Multi-Standard Connectivity for Consumer Electronics
GNSS-Based Telematics Solutions
UX CONCEPTS & DESIGN
Luxoft excels in advanced car user experience (UX) and user interface (UI) development. We’ve developed efficient, intelligent, reliable, non-distractive, rich and user-friendly HMIs for the world’s leading automakers.

CONNECTIVITY
Luxoft applies innovative expertise to help automakers implement embedded, tethered and integrated car connectivity solutions ensuring seamless brought-in devices integration. We are fluent in most connectivity technologies, such as GENIVI’s SmartDeviceLink, SDL Profiles, Apple’s CarPlay, Google’s Automotive Link, MirrorLink, Miracast, Bluetooth and others.

NAVIGATION
We develop complex car navigation solutions, such as interactive navigation, augmented reality, maps and 3D models. We are experts in GPS and GLONASS solutions, including eCall and ERA GLONASS. Luxoft also provides innovative in-vehicle location-based services (LBS) features based on points of interest (POI), traffic and detour notification, radar detection, and social networking.

PLATFORMS & SOLUTIONS
Our automotive software platforms eliminate the costly need to start from scratch and are easy to customize to the client’s requirements, ensuring that a new product can be built faster and more cost-efficiently. Luxoft is proud to offer the several automotive software solutions, such as Populus, Teora and SDL Profiles.

QA SERVICES
Luxoft uses and applies the Automotive SPICE® Process Assessment Model for software process capabilities. With an independent test team and test laboratories, we perform manual and automated testing of modules, systems, and solutions developed by Luxoft or by our clients.

SOFTWARE ENGINEERING
Luxoft provides full-cycle software development for in-vehicle infotainment technologies, including multimedia, road assistance, ADAS, head unit, virtual instrument cluster and rear seat entertainment (RSE) software.
**Populus**

Luxoft Populus is a complete tool chain that covers the entire development process from creating a system HMI architecture all the way to developing a full-featured series production HMI ready to be deployed to an embedded target.

Populus has been designed for the OEMs and Tier1s to deliver high-performance user interfaces with a short time-to-market and to enable efficient software life cycle management without the need of writing a single line of program code.

**Teora**

Teora is a software platform that Luxoft uses to develop scalable, appealing, and swift-to-market car HMI implementations. Teora is Luxoft’s “know-how” that powers the development of new UX and HMI projects and benefits our clients by helping to achieve significant time savings.

Teora-generated code is used in millions of cars on the road today. Teora comes with a perfectly aligned tool chain, including tailor-made applications with interfaces to standard platforms, such as Adobe Photoshop or Flash, to transfer simple graphics into interactive objects in the most efficient way. The multi-rendering approach enables a seamless integration of mixed 2D, 3D, Adobe Flash and HTML5 content in one platform to match our customers’ requirements perfectly. Teora has already been ported to Windows, QNX, and Linux.

**SmartDeviceLink Profiles (SDLP)**

SDLP is an Open Source connectivity technology by Luxoft, which builds seamless link between head unit and smartphones. SDLP extends functionality of head unit with almost unlimited possibilities of mobile apps. Smartphone can receive diagnostics information from the vehicle, remotely control AC and even replicate its screen to car head unit display. This is just a few examples of features which the technology provides. But since SDLP is a platform and SDK, its capabilities are limited only by the app developer’s imagination.

SDLP is a GENIVI-compliant solution, based on well-known SmartDeviceLink (SDL) protocol. Since SDLP is much more flexible than SDL it can be easily adapted to any OEM-specific system architecture with minimal integration efforts.
**AllView**

Luxoft’s reference design platform for creating in-vehicle user experience (UX) links together instrument cluster, head unit and mobile devices. AllView enables automakers to optimize the car user experience and improve safety by reducing driver distraction, while encouraging third-party app development. AllView offers market-leading visual design for modern “consumer” look & feel with support of Luxoft own solutions, Teora and Populus. The reference platform incorporates the latest technology, including SDLP, Linux BSP, Blink, HTML5 and more.

**Why Luxoft?**

- In-depth expertise in creating automotive HMI that are in millions of cars on the road today
- Full-cycle of HMI development: design, human factors, specifications, implementation
- Leading innovation in situation-aware HMI, mobile device connectivity, gesture control and more
- Strong internal R&D producing platforms that accelerate product development
- Flexible business model combining onshore and offshore locations
- Direct customer access in Europe, North America and Asia with Delivery Centers in Detroit, Stuttgart, Bucharest, Odessa, Kiev, St Petersburg and Ho Chi Minh City

**Alliances and Partnerships**

[Images of logos: Ford, Harman, Delphi, Agero, NIS, Genivi]

**About Luxoft**

Luxoft is an award-winning one-stop-shop design house developing high-end automotive software solutions in the area of UX design, HMI, connectivity, and telematics. Today, there are millions of vehicles on the road featuring infotainment systems developed by Luxoft.

Luxoft leads the innovation in such technological areas as in-vehicle UX, HMI, head unit, digital cluster and head-up display design, connectivity, navigation and more.

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