



GlobalLogic®

“Autonomous driving”
from pieces to real big thing

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About GlobalLogic

Technology service company

Headquartered in Silicon Valley

Design studios in the US and UK

Engineering centers in the US, Ukraine,
Slovakia, Poland, India, Argentina, China

11 000+ Employees

250+ Active clients

1 500+ Product releases per year












































GlobalLogic®

Automotive Eco-System

CUSTOMER COLLABORATION RESPONDING TO CHANGE

GlobalLogic Automotive Eco-System Landscape

Domains we work in	UI/UX Design	Application Software	Infotainment	Connected Vehicle	ECU
Products and Technologies we help bring to market	<ul style="list-style-type: none"> • Visual design • Automotive Grade HMI • Adaptive UI • OEM Styling 	<ul style="list-style-type: none"> • Cloud apps • Multimedia • Navigation • Secure app store • Games 	<ul style="list-style-type: none"> • IVI Multimedia • Navigation and driver assistance • HMI/HMI modeling • Hypervisor platform • Middleware • Drivers, BSP 	<ul style="list-style-type: none"> • Connected car platform • V2x • Long/short range networks 	<ul style="list-style-type: none"> • Instruments cluster panels • Control unit • Cameras/sensors • HIL
Technologies and Alliances	Method	 iOS  android	 GENIVI  Xen Project  AUTOMOTIVE GRADE LINUX	 Microsoft Azure  amazon web services  ETSI	 CAN  FlexRay  AUTOSAR
Companies we partner with	Car manufacturers  NISSAN	Service providers OEM companies  intel  Cobra  VW  LEAR CORPORATION  SMARTDRIVE  JAGUAR  Hirschmann Car Communication	Infotainment vendors  GENIVI  HARMAN  Continental  PINTAC  SHANGHAI GM  Valeo  EB  Panasonic  android  TIZEN  MITSUBISHI ELECTRIC  RENESAS  GNX	SPs OEMs and network equipment companies  ALLSEEN ALLIANCE  Sprint  Autonet mobile	SoC and OEM companies  TEXAS INSTRUMENTS  dSPACE  DELPHI  Valeo  EB  Continental

GlobalLogic's Logos and Components of Autonomous Driving

Autonomous solutions



Processing



Sensors



Connectivity



Mapping



Algorithms



Security/Safety



Development tools



Dramatic Changes in Automotive Eco-System



User experience



Social aspects

Customer
acceptance



Frequent SW changes

Save and reliable
solutions



Asset management

Remote operation
Telematic data services



Use Cases



Automotive Telematic Unit

•Project description

- Development of SW modules for new Automotive Telematic Unit
- Main function is providing the car access to outside elements as manufacturer services, smartphones, other cars. It also establishes the eCall in case of car accident.

•Responsibility

- Diagnose Log & Trace
- M2M communication framework (car manufacturer specific)
- SW Update Over the Air system



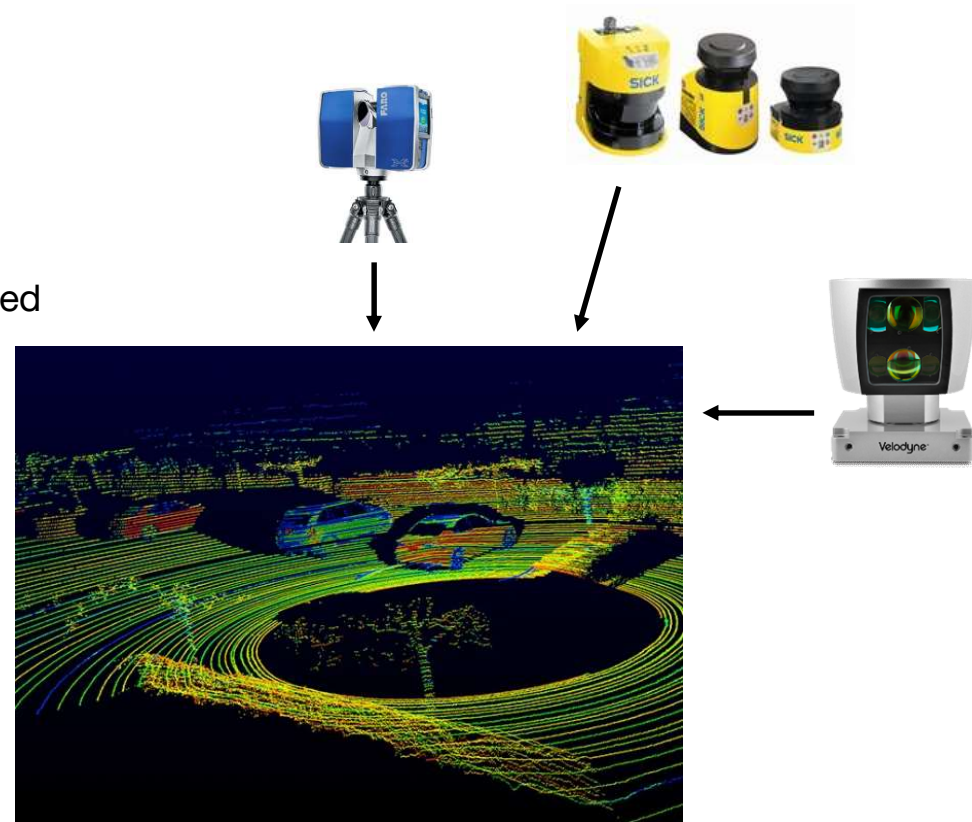
Sensor Referencing Tool

•Sensors

- Laser scanners, radars, GPS-devices
- Returned data are processed and evaluated as measurements

•Features

- Common open format
- Edit, merge, stitch, export, visualize
- Open source / Proprietary plug-in



sources: www.velodynelidar.com , www.sick.com , www.faro.com

Test bench

• Capture and replay

- Data collection from car sensors, ECUs and video
- Used in laboratory for simulations
- Customer HW used for recording to guarantee correct timing

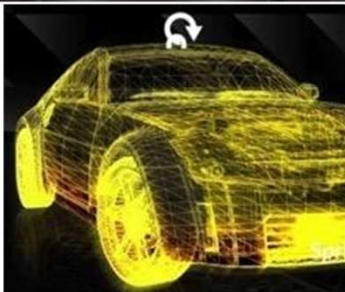


sources: <http://www.bfft.de>

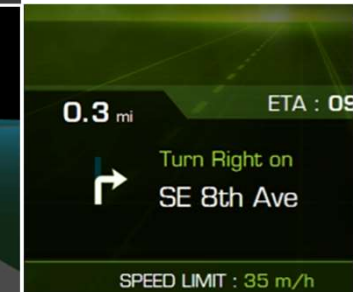


Experience
Design

Complex
Engineering



GlobalLogic®



Agile
Delivery



GlobalLogic®

Thank you

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