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In addition to historical information, this presentation contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act of 1933, and Section 21E of the Securities Exchange Act of 1934. These forward-looking statements include information about possible or assumed future results of our business and financial condition, as well as the results of operations, liquidity, plans and objectives. In some cases, you can identify forward-looking statements by terminology such as "believe," "may," "estimate," "continue," "anticipate," "intend," "should," "plan," "expect," "predict," "potential," or the negative of these terms or other similar expressions. These statements include, but are not limited to, statements regarding: the persistence and intensification of competition in the IT industry; the future growth of spending in IT services outsourcing generally and in each of our industry verticals, application outsourcing and custom application development and offshore research and development services; the level of growth of demand for our services from our clients; the level of increase in revenues from our new clients; seasonal trends and the budget and work cycles of our clients; general economic and business conditions in our locations, including geopolitical instability and social, economic or political uncertainties, particularly in Russia and Ukraine, and any potential sanctions, restrictions or responses to such conditions imposed by some of the locations in which we operate; the levels of our concentration of revenues by vertical, geography, by client and by type of contract in the future; the expected timing of the increase in our corporate tax rate, or actual increases to our effective tax rate which we may experience from time to time; our expectations with respect to the proportion of our fixed price contracts; our expectation that we will be able to integrate and manage the companies we acquire and that our acquisitions will vield the benefits we envision; the demands we expect our rapid growth to place on our management and infrastructure; the sufficiency of our current cash, cash flow from operations, and lines of credit to meet our anticipated cash needs; the high proportion of our cost of services comprised of personnel salaries; our plans to introduce new products for commercial resale and licensing in addition to providing services; our anticipated joint venture with one of our clients; and our continued financial relationship with IBS Group Holding limited and its subsidiaries including expectations for the provision and purchase of services and purchase and lease of equipment; and other factors discussed under the heading "Risk Factors" in the Annual Report on Form 20-F for the year ended March 31, 2018 and other documents filed with or furnished to the Securities and Exchange Commission. Except as required by law, we undertake no obligation to publicly update any forward-looking statements for any reason after the date of this presentation whether as a result of new information, future events or otherwise

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# **Berlin Delivery Center Agenda**

Speaker	Description	
Demonstrations		
Tracy Krumme	Welcome	
Alwin Bakkenes, Luxoft	Empowering the Mobility Revolution	
Michael Dinkel, Luxoft	Digital Cockpit	
Miro Bogdanovic, MBition	MBition & LXFT Partnership	
Alex Diebald, Luxoft	Silicon & Tech Vendors	
Helen Choi & Sunghyn Cho, LG Electronics	webOS & LXFT/LG Partnership	
Break		
Brian Marr, Smashing Ideas	Smashing Ideas + ReachNow Demo	
Marek Jersak, Luxoft	Autonomous Drive	
Clemens Dannheim, Objective Software	Objective	
Alwin Bakkenes, Luxoft	Closing	
All	Q&A	



# **Empowering the Mobility Revolution**

Alwin Bakkenes Managing Director, Automotive





### **Alwin Bakkenes**

**Managing Director, Automotive** 

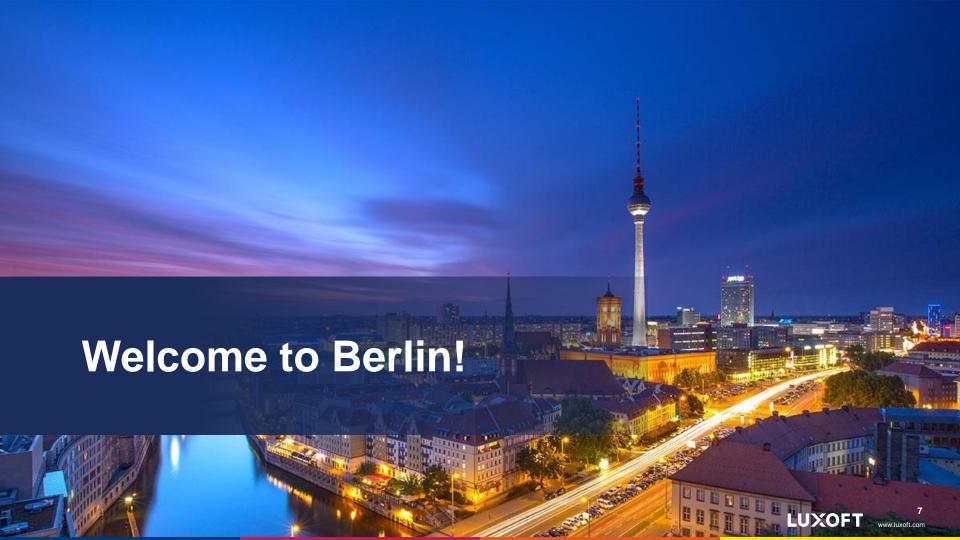
As a trusted deployment partner, we empower our clients to become providers of sustainable mobility solutions by co-creating technology platforms of tomorrow."





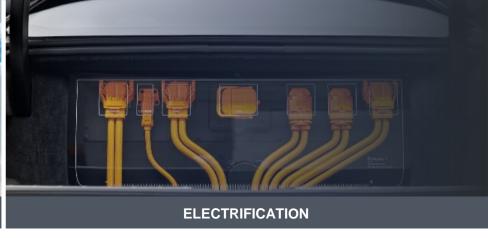










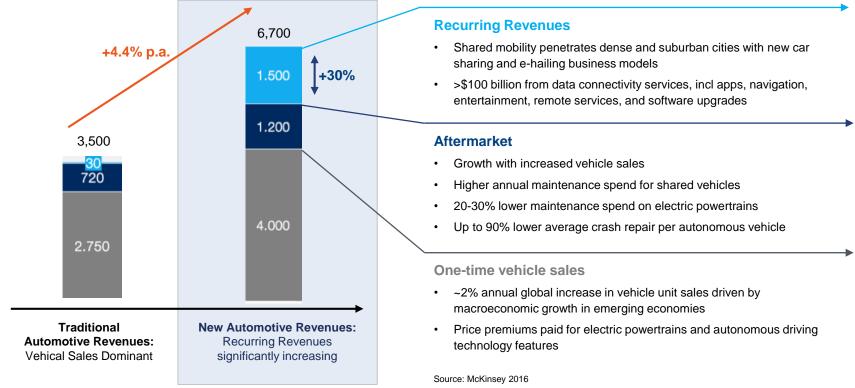


# **The Mobility Revolution**





► Potential to become a ~\$1.5 trillion market by 2030



# **Key Industry Trends**



Automotive companies become Software Companies.



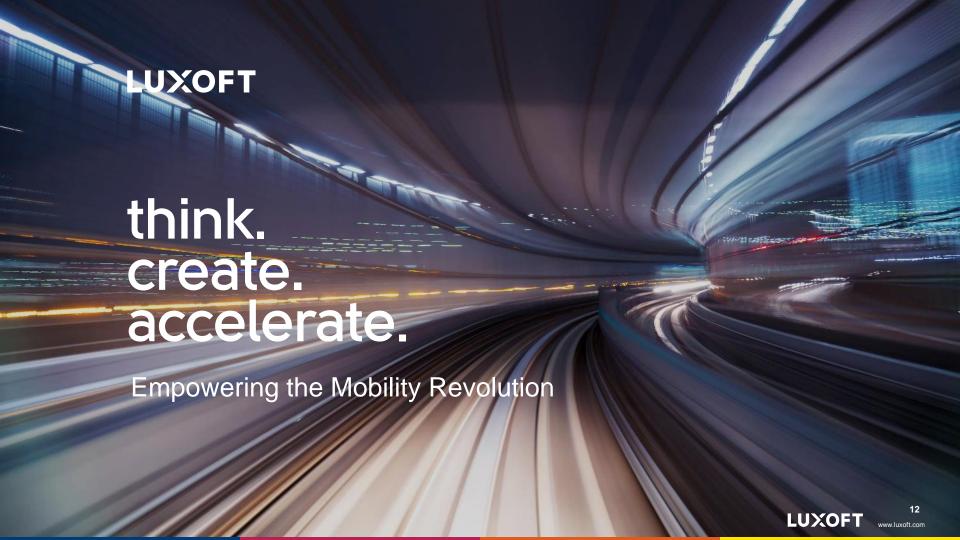
Autonomous Driving & ECU consolidation drives the need for new software platforms and talent.



Sharing economy drives digitalization of customer experience for car industry.



Eco-systems need to be built to satisfy Personal Digital Lifestyles, no longer "one company does all".



### **Seattle Washington**

Since 1996

### Where We Specialize

Lean Strategy User-Centered Design Motivational UX (MUX) Full Stack Development In-Market Launch

**65 Employees** 

### **Global Clients**

Spanning 4 continents



# **Luxoft Acquired Objective Software GmbH**

# Same Journey New Objective

Luxoft acquires autonomous drive and connected mobility specialist

Objective Software GmbH

**August 7, 2018** LUXOFT announced the acquisition of Objective Software GmbH, a provider of software development services and IP based solutions for autonomous vehicles, Advance Driver Assisted Systems (ADAS), high-accuracy positioning, innovative mobility and smart city applications.

Given close synergies with LUXOFT's service-led model, backed by in-house application development, we anticipate opportunities to significantly scale Objective's existing projects in autonomous driving and connected mobility. In particular, the acquisition further strengthens our presence in Munich where we intend to expand software development services for BMW and their Tier1s, thereby delivering software effectively across the full value chain.

# **Building Eco-systems With Technology Partners**



Thanks to our collaboration with Luxoft, we are able to bring webOS into automotive and beyond," said *I.P. Park*, CTO at LG Electronics.





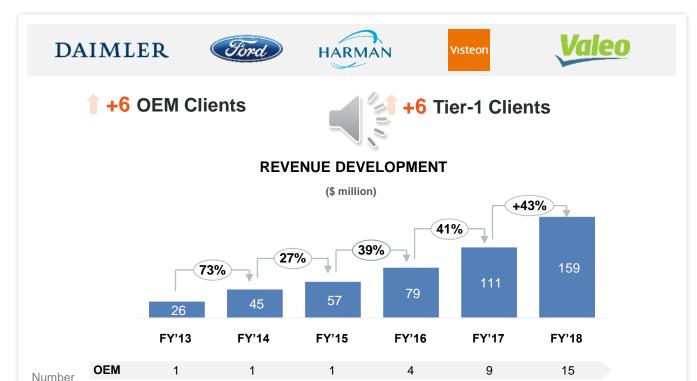
### **Automotive at a Glance**

of Clients

Tier1

3

3



5

6

12

18

### **Our strengths**

- Deep industry & technology know-how
- Focused on the high-value segments of the business
- Co-creation and Deployment partner
- Top-tier customer base
- · Global delivery centers
- Effective Integration of M&As
- Independent partner to OEMs & Tier-1s

### Our next steps

- Scale our geographical footprint & client base
- Scale up the new accounts with extended offerings
- Establish industry wide reference platforms with partners

# **Executing On Our Strategic Goals**

### **Growth Strategy**



Growing the newly opened accounts



Geographical expansion in Americas and JAPAC



Grow our share of the OEM business with our unique offering



New client acquisition through technology partners



Expand offering for Mobility Services for future growth



Selective M&A focusing unique skills & services

### **Objective**

Establish ourselves as the leading software development company empowering the mobility revolution



Continued **35%+**organic growth
with sustained margins

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# Digital Cockpit Michael Dinkel Head of Digital Cockpit LUXOFT

# Dr. Michael Dinkel Head of Digital Cockpit

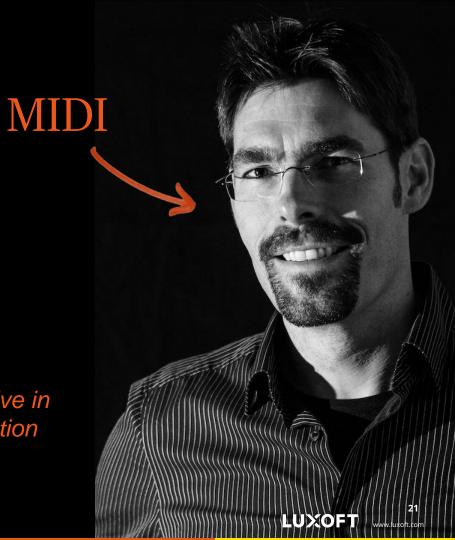






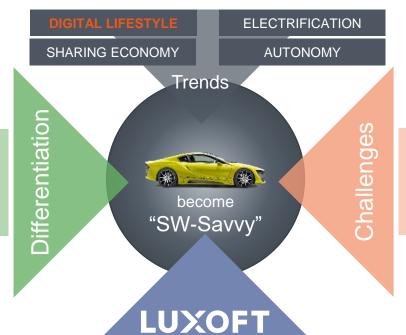


The automotive industry needs to evolve in order to succeed in the global competition for smart software-enabled solutions."





### **Automotive Builds SW Focus** – Luxoft co-creates and enables



- Mechanical Heritage
  - Mindset of People
  - Management
  - Processes
  - Technology

### Think.

- UX Design
- Concept Creation

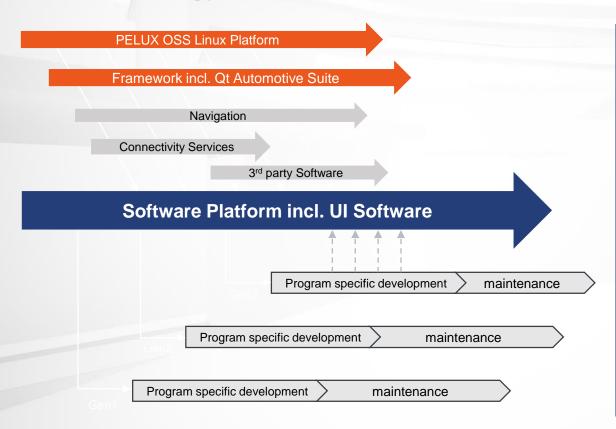
### Create.

- Technology Consulting
- Process Consulting

### Accelerate.

- Solution Accelerators
- Automotive Delivery
- Global Scalability

# **Platform Strategy**



### Benefits

- Software Factory enabling Continuous Software Integration & Delivery
- Structure enforces solid architecture
- Increased platform focus enables shorter program time-to-market
- Integration of new innovations outside of program delivery pressure

# **UX Design**



**Psychologists** 

**Industrial Designer** 

**Usability Architect** 

**UX** Experts

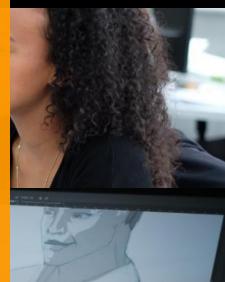
Screen Designer

**Motion Designer** 

**Technical Writer** 

3D Designer

**Usability Engineers** 

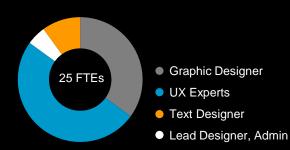




### Tasks

- 1. Support with design creation
- Graphics roll out and asset preparation for software integration
- 3. Style guide creation
- 4. Animation development, specification

### UI/UX Team

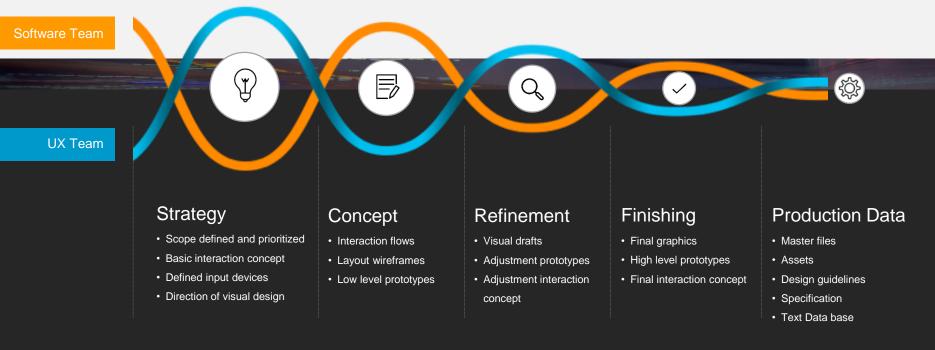


### **Project Team setup**



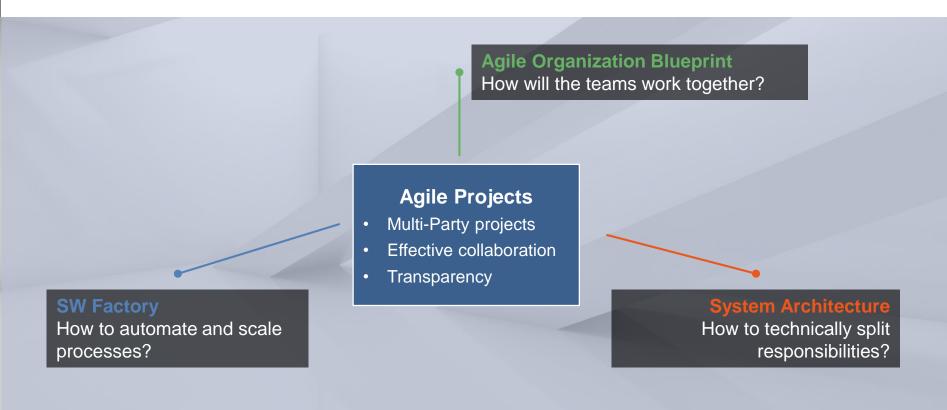
Main project team (OEM, Software, UI/UX Stuttgart), Stakeholders in Ukraine, US and China.

### One Process for UX & Software

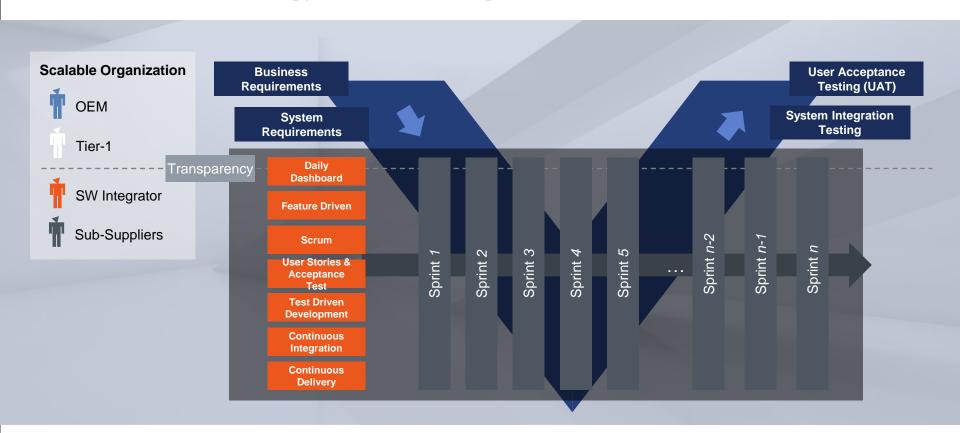


**LUXOFT** 

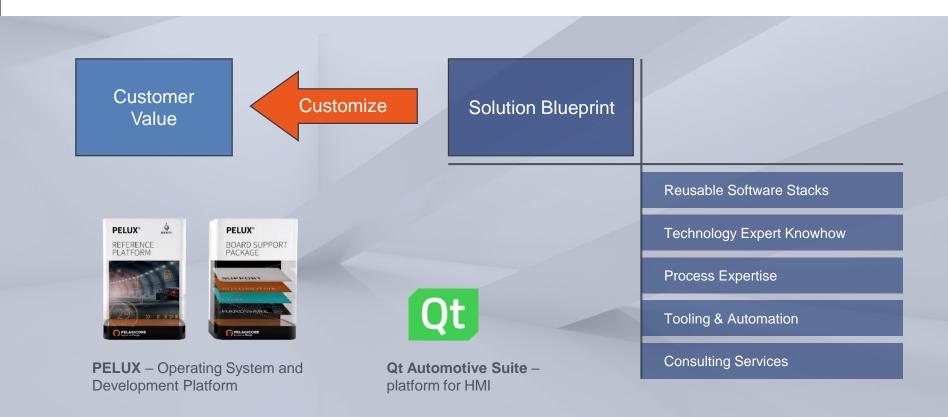
# **Agile Setup Consulting**



# **Development Strategy for Scaled Agile teams**



# **Solution Accelerators – Platforms and Open Source**







# Silicon & Technology Vendors **Alex Diebald Senior Director, Silicon & Tech Vendors LUXOFT**



### **Alex Diebald**

**Senior Director, Silicon Vendor and Technology Partners** 













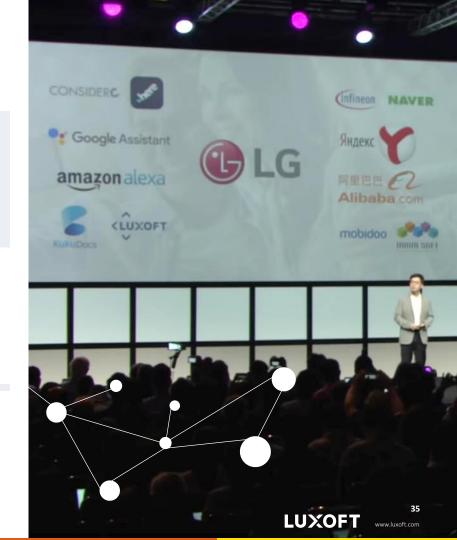
# **Co-creating Smart Solutions**

The world has become far too complex and far too diverse for any one company to be able to meet all the demands of customers.

Dr. I.P. Parks, LG President & CTO, Opening Key Note Speaker at IFA, Berlin, Aug. 31, 2018

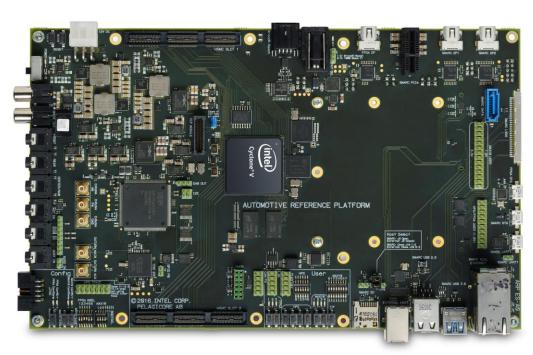
**Co-creating** smart solutions in practice – together with an **ecosystem** of technology, product, and platform partners.

Two cornerstones: **next generation silicon** and **software platforms** 



# The Automotive Reference Platform (ARP)







### Silicon Is Defining Capabilities of Next Generation Products

Mobile phone hardware moves into automotive

Race to 7nm chips is heating up

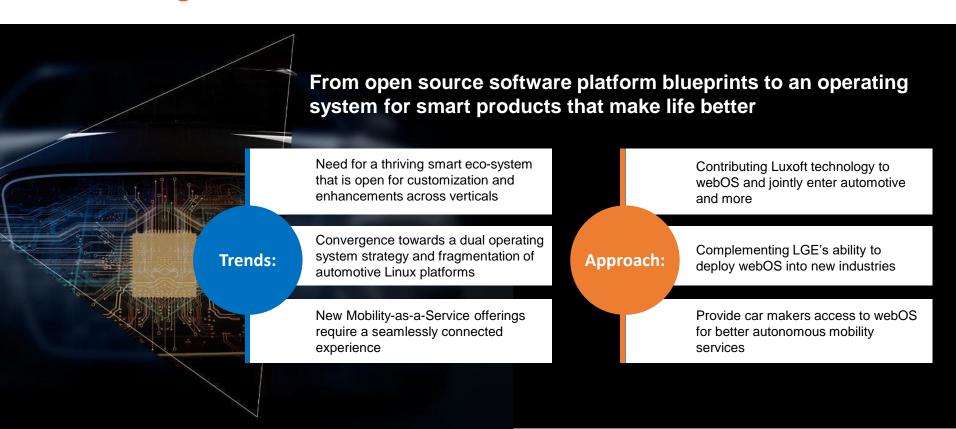
Shifting focus between autonomous and digital cockpit opens opportunities

Bundling hardware and software platforms differentiates

Hardware enablement, board support packages, and software platform integration Luxoft Automotive Reference Platform (ARP) co-created with Intel ARP key benefits: flexibility in terms of Approach: integrating sensors, displays, and CPUs Car manufacturers evaluate next generation silicon features and advanced UX concepts Luxoft is curating an ecosystem of technology partners and start-ups around ARP

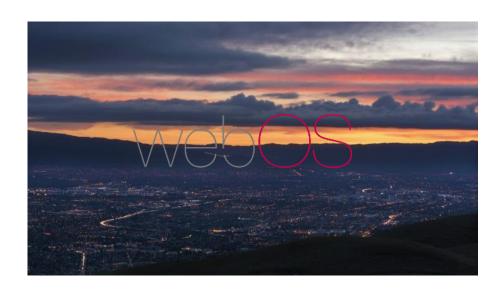


#### **Invisible Engines: Software Platforms Drive Innovation**



#### LGE's webOS for Automotive, Robotics, and Smart Home Electronics







## **Making Life Better**

As we are entering this new era of a driverless mobility customer experience, taking us beyond instrument cluster and head-unit experiences into immersive entertainment and engaging productivity – we are truly making life better!





# SMASHING IDEAS

Brian Marr

-00

**Chief Strategy Officer** 



smashing ideas

LUXOFT

ww.luxoft.com



#### An introduction to **Smashing Ideas**

Luxoft acquired digital innovation agency Smashing Ideas in June, 2018

#### **Brian Marr**

Chief Strategy Officer, Smashing Ideas



www.luxoft.com

# INNOVATION CATALYST FOR THE GLOBAL 500



# WHAT WE OFFER

**— 02** 

**Lean Strategy** 

Market Research

Contextual Research

Market Trends Analysis

Competitve Analysis

**Buisness Modeling** 

Product/ Service Envisioning

**Experience Design** 

Product, Service, & Connected

**UX Research** 

Concept Testing

UX & Visual Design

Low & High Fidelity Prototyping

Experience Mapping Workshop

Value-mapping Workshop

**Product Realization** 

Technology & Design

Systems Design

Platform Architecture

Web & Mobile Developement

Agile Development

Digital Quaility Assurance

**Managed Services** 

Enterprise Infrastucture Management

Mission-critical Support services

Maintenance Management &

**Adivsory Services** 

# Si

— 03

Since 1996

#### Where We Specialize

**Seattle Washington** 

Lean Strategy

User-Centered Design

Motivational UX (MUX)

Full Stack Developement

In-Market Launch

#### 65 Employees

#### **Global Clients**

Spanning 4 continents







CLIENTS

**— 04** 

TELEVISION







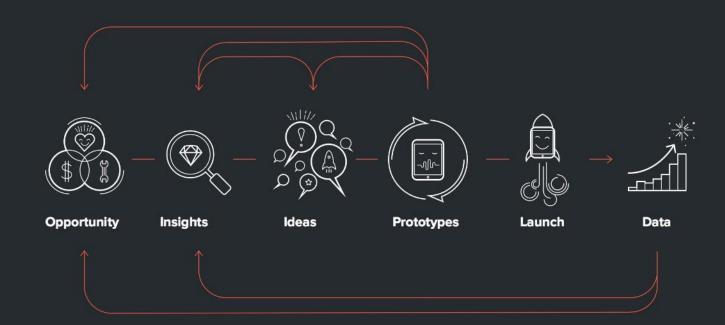
BLUE NILE.





# Approach

**— 05** 







# Art & Science.

-08

Motivtional UX™ is a customer-centric approach to innovation that applies decades of multi-disciplinary research in behavioral psychology, user experience, and game design thinking to technology solutions, giving you a strategic edge over your competition.



**PRINCIPLES** 

#### **ADAPTIVE**

I want to a product that works for me

> Create content-aware products

#### SELF-**EXPRESSION**

I want to make a product my own

Let people showcase their uniqueness

#### **EXPLORATION**

I want to discover things and be amazed

> Create moments of curiosity and delight

#### **CHALLENGE** & REWARD

I want to master a skill

Let people compete with themselve and others

#### **AESTHETICS**

I want a unique and beautiful experience

> Appeal to our human senses

#### **DECISION-**MAKING

I want to be empowered in my choice

Provide easy and simple points of choice

#### **BELONGING**

I want to be part of something bigger

Encourage connections and comparisons with others

#### REPEATED **ENGAGEMENT**

I want to do that again

Let people build and enhance experiences

#### CONTENT & STORY

I want an emotional connection

> Creative narrative to influence, educate and entertain



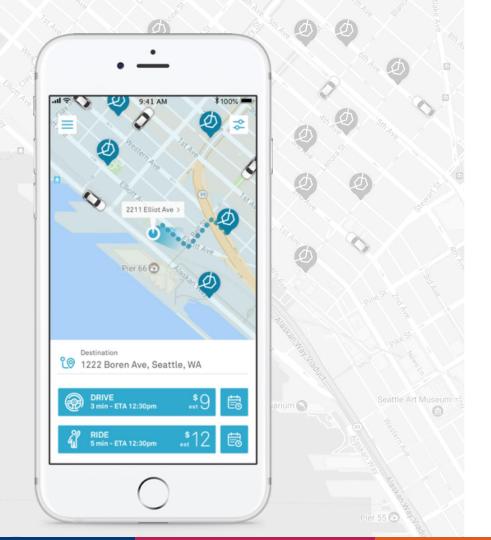
# Johnson Controls GLAS

GLAS® smart thermostat by Johnson Controls; the perfect blend of form and function.

Smashing Ideas was hired by Johnson Controls to help with visual design and UX for the GLAS thermostat. We worked collaboratively with the JCI UX design and technology teams to identify a value proposition for the new product, design the interface on a transparent screen, and validate our designs through testing with end users.







# ReachNow

# Empowering a True Pioneer in Urban Mobility

ReachNow, the mobility services division of the BMW Group, is the first service to combine car sharing, ride hailing, and ride scheduling into a unified customer experience. Smashing was chosen as their partner to help re-design and re-architect this new service on iOS and Android.

The 10+ month engagement resulted in a mobility experience that is approachable intuitive, convenient, and built for scale.



# **Autonomous Drive Practice From Sensors to Motion** Marek Jersak Senior Director, Autonomous Drive

**LUXOFT** 



#### **Marek Jersak**

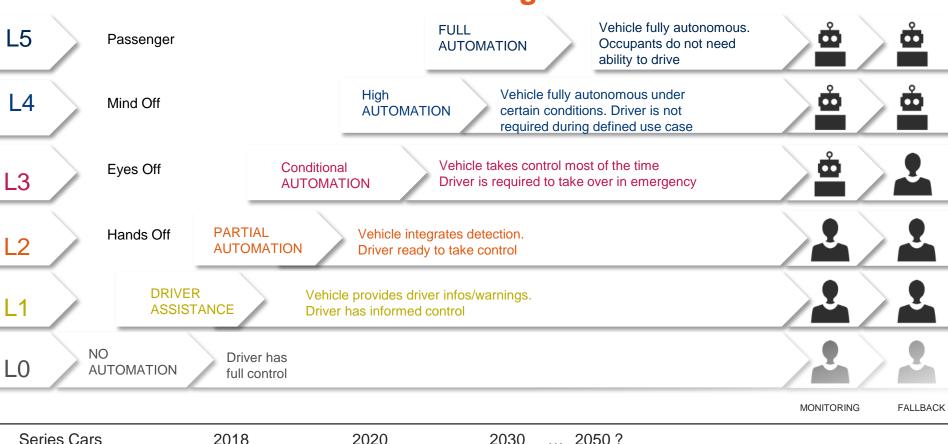
**Senior Director, Autonomous Drive** 

Autonomous mobility is the killer app for technology convergence including smart sensors, high-performance compute platforms, AI, 5G connectivity, cloud and next-gen UX"





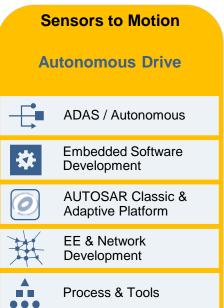
# **SAE Levels auf Automated Driving**



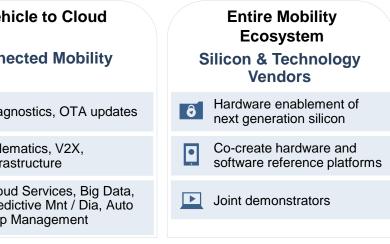
LUXOFT www.luxof

## **Autonomous Drive Positioning**





# Vehicle to Cloud **Connected Mobility** Diagnostics, OTA updates Telematics, V2X, Infrastructure Cloud Services, Big Data, Predictive Mnt / Dia, Auto App Management





**System Testing** 



Cyber Security

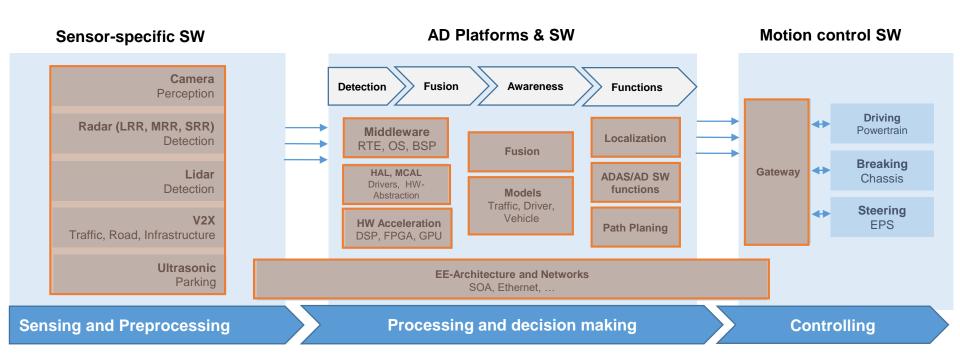


**Functional** Safety



DevOps, Process Consulting

#### **Autonomous Drive Focus Platform & Software Development**



**Enablers:** AGILE, ASPICE, Timing Analysis, Safety, Data Labeling, Vehicle / Environment Simulation. State of the art processes and tools (own and 3rd party products, customized workflows)



#### Combining Global Expertise and Scale for a Tier-1

Mexico (20+)

Support of NA

projects

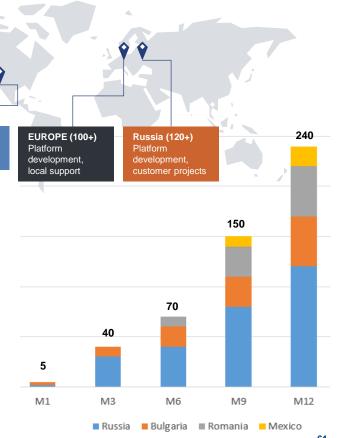
#### **CHALLENGES**

**Rapid growth** within a limited time in order to support the Tier-1 customer in platform and OEM project development.

Deliver rare, highly specialized resources for development activities

#### **ACHIEVEMENTS**

- Fully functional team of 240+ engineers within 12 months. Hired and trained in several Off-Shore delivery locations
- Established custom training programs in several domains that even the customer wants to use for own employees
- Hired rare, specialized resources with background in computer vision, algorithms, annotation and embedded software development
- Infrastructure: smooth integrated IT network, security rules, VPN tunnels from Luxoft sites to customer



#### **Application Software Pillars**

# WORLD-CLASS VIDEO ALGORITHMS

- Image and Video processing
- Video Quality Tools & Services
- Image and Video Codecs
- Video Analytics & Computer vision
- ADAS for Automotive



# PARALLEL COMPUTE

- Machine Vision & Neuron Network applications
- Expert in parallel programming
- GPU Compute on OpenGL/OpenCL/CUDA/Metal
- Heterogeneous computing

# INTERNET OF THINGS

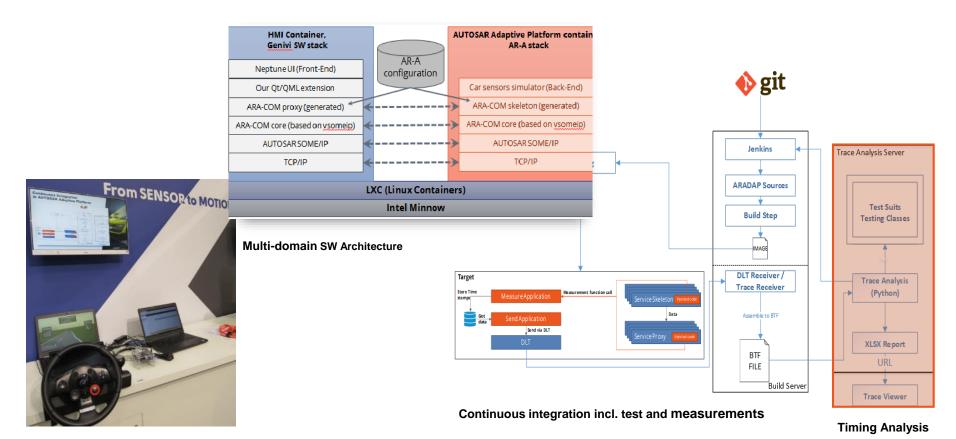
- Data acquisition
- Big Data / Real-time analytics
- IoT Connectivity & Home Automation
- Cloud APIs
- Cross-platform UX/UI



# **Computer Vision & Sensor Data Fusion**

**Embedded Video** 

## **Luxoft Autostar Adaptive Contributions**



# Addressing Autonomous Drive Challenges Complexity of Self-driving Functions: Road Conditions

#### **Environmental Conditions (Examples)**

- Electromagnetic pulse disturbance (lightning)
- Precipitation (rain, snow, mist, sleet, hail, fog,...)
- Other atmospheric obscurants (dust, smoke,...)
- Night conditions without illumination
- · Low sun angle glare
- · Glare off snowy and icy surfaces
- Reduced road surface friction (rain, snow, ice, oil...)
- · High and gusty winds
- Road surface markings and signs obscured by snow/ice
- Road surface markings obscured by reflections off wet surfaces
- Signs obscured by foliage or displaced by vehicle crashes



Steven E. Shladover, Sc.D. California PATH Program Institute of Transportation Studies University of California, Berkeley

# Addressing Autonomous Drive Challenges Complexity of Self-driving Functions: Idiots

#### **Dynamic External Hazards (Examples)**

- Behaviors of other vehicles:
  - Entering from blind driveways
  - Violating traffic laws
  - Moving erratically following crashes with other vehicles
  - Law enforcement (sirens and flashing lights)
- Pedestrians (especially small children)
- Bicyclists
- Officers directing traffic
- Animals (domestic pets to large wildlife)
- · Opening doors of parked cars
- Unsecured loads falling off trucks
- Debris from previous crashes
- Landslide debris (sand, gravel, rocks)
- Any object that can disrupt vehicle motion

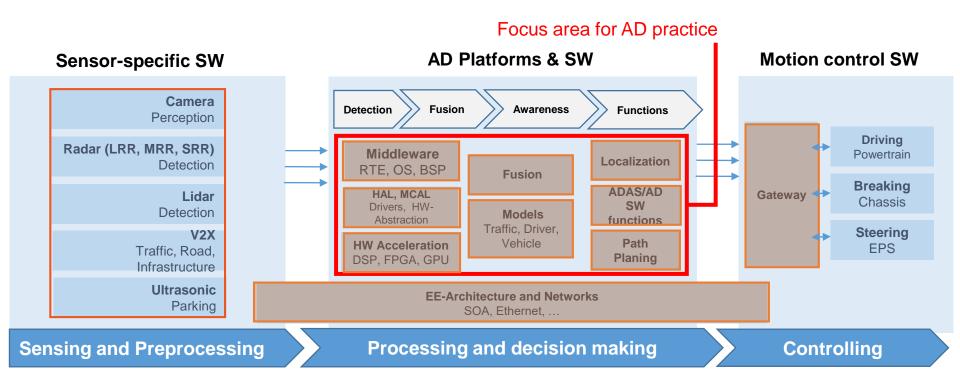




Steven E. Shladover, Sc.D. California PATH Program Institute of Transportation Studies University of California, Berkeley

#### **Autonomous Drive Focus**

#### **Platform & Software Development**



**Enablers:** AGILE, ASPICE, Timing Analysis, Safety, Data Labeling, Vehicle / Environment Simulation.

State of the art processes and tools (own and 3rd party products, customized workflows)



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**Clemens Dannheim** 

**Chief Executive Officer** 



# **Clemens Dannheim**

CEO at Objective Software GmbH, Munich







softlab









#### Who Are We?





Founded in 1998



100% subsidiary of Luxoft, Holding, Inc. since August 2018

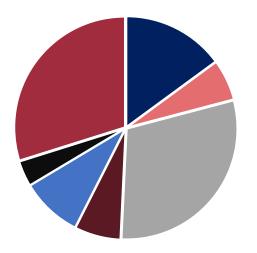


~100 employees in 5 locations



## **Top Talent**





- Embedded Engineers
- Embedded Security Experts
- Autonomous driving and sensoric experts
- Project/Problem/Release Managers
- Office Administration, Operations HR
- Researchers/Scientists
- External Contractors



**12%** 

PhD holders



86%

Master degree holders



<5%

yearly turnover

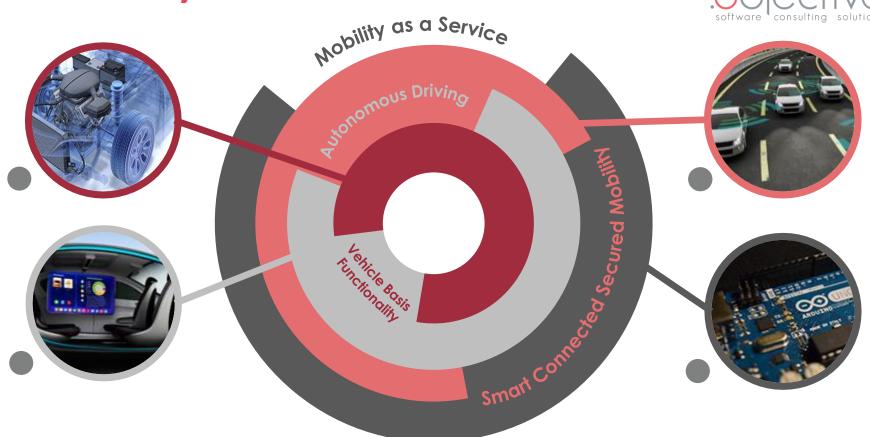


33 yrs

average age

#### **What Does Objective Do?**





#### **Central Platforms & Functions**









air conditioning control



basic functionalities



dashboard electronics



Middleware & gateways



infotainment bluetooth



access management



assisted parking

## **Production Programs:**On the Road to L4 Autonomy



#### **Environment Model (What Does the Car See)**



## Safety-critical Vehicle Control (How Does the Car React)



Features:

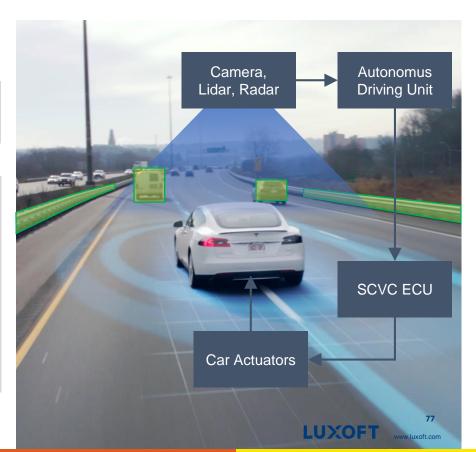
Vehicle control, accurate position estimation

Vehicle Dynamic Modeling

Performance Evaluation and Optimization

Technologies:

- Ground Truth by D-GPS and RTK
- Time Synchronization and Machine Learning
- Kalman Filter and Data Fusion (IMU, DGPS)



## Innovations: Stepstones on the Road to L5 Autonomy





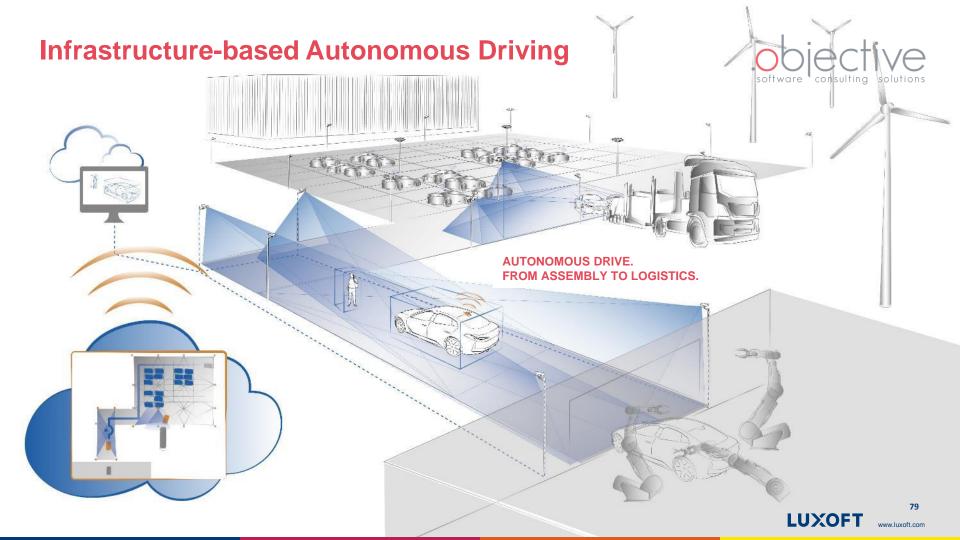
Infrastructure-based autonomous driving



Teleoperated Driving



Vehicle Security Module



### **Tele-operated Driving**



control center



Remote access to vehicle control

vehicle







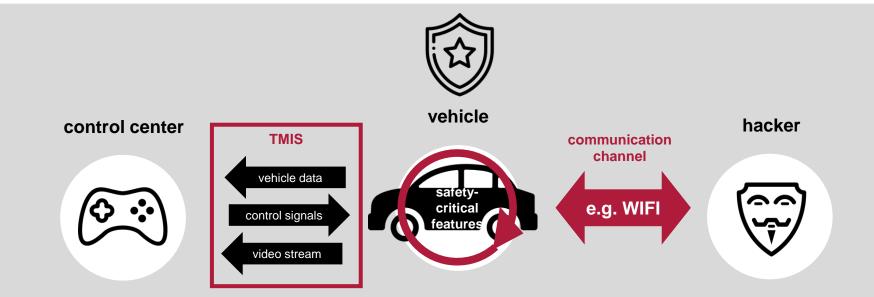


#### **Tele-operated Driving**



#### **Vehicle Security Module**





#### **Teleoperated Driving + Security**



# **Closing Remarks** Alwin Bakkenes Managing Director, Automotive AUTOMOTIVE

#### **Executing On Our Strategic Goals**

#### **Growth Strategy**



Growing the newly opened accounts



Geographical expansion in Americas and JAPAC



Grow our share of the OEM business with our unique offering



New client acquisition through technology partners



Expand offering for Mobility Services for future growth



Selective M&A focusing unique skills & services

#### **Objective**

Establish ourselves as the leading software development company empowering the mobility revolution



Continued **35%+**organic growth
with sustained margins

