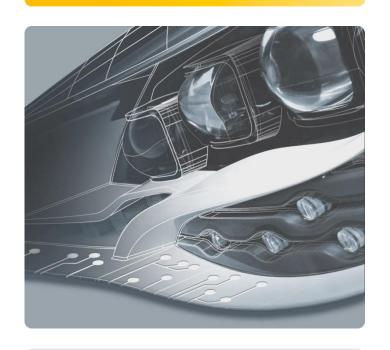


CAPITAL MARKETS DAY 2015



HELLA KGaA Hueck & Co

London
02 December 2015

Disclaimer

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This document may contain forward-looking statements and information on the markets in which the HELLA Group is active as well as on the business development of the HELLA Group. These statements are based on various assumptions relating, for example, to the development of the economies of individual countries, and in particular of the automotive industry. Various known and unknown risks, uncertainties and other factors (including those discussed in HELLA's public reports) could lead to material differences between the actual future results, financial situation, development or performance of the HELLA Group and/or relevant markets and the statements and estimates given here. We do not update forward-looking statements and estimates retrospectively. Such statements and estimates are valid on the date of publication and can be superseded.

This document contains an English translation of the accounts of the Company and its subsidiaries. In the event of a discrepancy between the English translation herein and the official German version of such accounts, the official German version is the legal valid and binding version of the accounts and shall prevail.



HELLA Capital Markets Day 2015

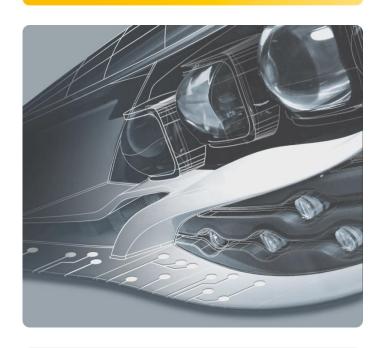
Agenda for today

Time (GMT)	Subject	Speaker
08:30 - 09:00	Arrival and Registration	
09:00 - 09:05	Welcome	Dr. Kerstin Dodel, Head of Investor Relations
09:05 - 09:30	HELLA's Strategic Growth Path	Dr. Rolf Breidenbach, CEO
09:30 – 10:00	Road to Future Mobility Market Trends & Outlook for HELLA	Dr. Kristian Döscher, Head of Global Marketing Original Equipment
10:00 – 10:40	New Trends in LED-Lighting- Future Possibilities for Styling and Functionality	Dr. Michael Kleinkes, Head of Design & Development Lighting
10:40 – 11:00	Coffee Break	All
11:00 – 11:40	Smart Solutions for Automated Driving, Increased Efficiency and Connectivity	Michael Jaeger, Member of the Executive Board Electronics
11:40 – 12:10	Financial Overview and Perspectives	Dr. Wolfgang Ollig, CFO
12:10 – 13:30	Q&A	All
13:30	Lunch	All
14:30	Expected End of CMD	





HELLA's Strategic Growth Path CAPITAL MARKETS DAY 2015



Dr. Rolf Breidenbach, CEO

London
02 December 2015

How will HELLA's growth path continue?

Above market growth in the last 10 years

HELLA Group sales, EURbn*

10.0% p.a. 8.7% p.a. Sustainable long term growth across the cycle during the last ten years (CAGR of **6.5%** p.a. since FY 2004/05 vs. **4%** market) 04/05 05/06 06/07 07/08 08/09 09/10 11/12 12/13 13/14 14/15 10/11

Investors and analysts comments

"...we understood your historical growth, how can we assess your future sales development?..."

"...outperformance has been 50% in the past, at a market growth of 2-3% in the upcoming years, is that maybe too **conservative for the future?**..."

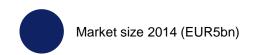
"...investors are still hesitating about your future growth rates, whereas they have no concerns with high growth rates of your competitors..."

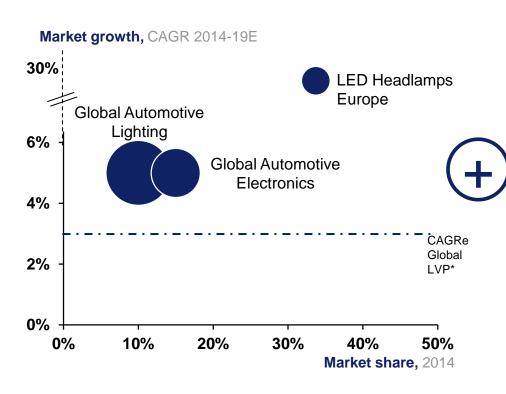


^{*}Sales as reported w/o adjustments for consolidation or accounting changes

HELLA's automotive segments are growing stronger than the market

HELLA's positioning for future growth





HELLA in market leadership positions¹

→ Automotive Lighting

1 market position in LED headlamps
Europe

3-4 global market position in OE passenger car lighting

#1-2 European market position in OE passenger car lighting

 → Automotive Electronics
 # 2-3 global position in defined automotive electronic segments

1-2 European position

Source: External market study commissioned by HELLA (2014), HELLA analysis *expected 5-years CAGR

All figures related to selected markets and product categories based on HELLA's portfolio, as covered in the market study

Value added of Lighting and Electronics in automotive expected to rise due to further innovations

Value share of modules in the auto industry HELLA's core OE segment Value share trend 800bn EUR = 100%Other **Exterior** 8 Power transmission 13 Chassis 12 **Electronics & electrics** (incl. Lighting and LBAS) 16 **Combustion engine** \Rightarrow & aggregates 23 Interior 2014

Increasing value added captured

- → HELLA's segments show healthy growth due to an **ongoing trend towards** sophisticated applications and **innovation**
- → Supplier gain increasing share in value chain – need and frequency for innovations lead to more outsourcing by OEMs
- → Automotive electronics experienced rapid innovation process
- Innovations shifting from single, standalone solutions to complex system or module innovations



HELLA is well positioned to benefit from the fundamental market trends in the future

Market trends

Lighting (selected products)

Electronics (selected products)

Environment/ Efficiency



Energy efficiency

- → Fuel System and Energy Management technologies for ICE & PHEV powertrains
- → Efficient lighting technologies like LED



Matrix-LED Headlight

LED Rear lamp



48V DC/DC

Converter

Cooling Valve Actuator



Safety



Driver safety / automated driving

- → Light based assistance systems and optimal illumination
- → Sensors for detection of the driving environment





LED Styling



77GHz

24 GHz Rear radar

Front radar

Styling

Comfort



Styling and comfort

- → Optical elements for individual styling with LED or OLED lighting technology
- → Enhanced personalization and interactions (vehicle to environment)
- → Individualized and designed parts



OLED Rear lamp



(Advanced Front-Lighting)



Ambient Interior Lighting





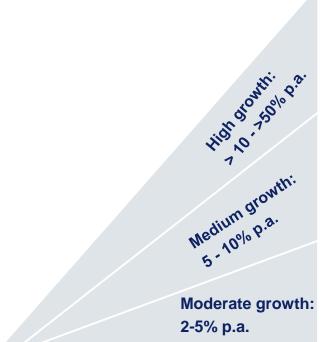
Structural **Health Sensor**



Unique combination of competence set in advanced electronics and lighting technologies

Broad automotive product portfolio in strong growing areas

Market growth, CAGR 2014 - 2019E



Source: External market study commissioned by HELLA (2014), HELLA analysis

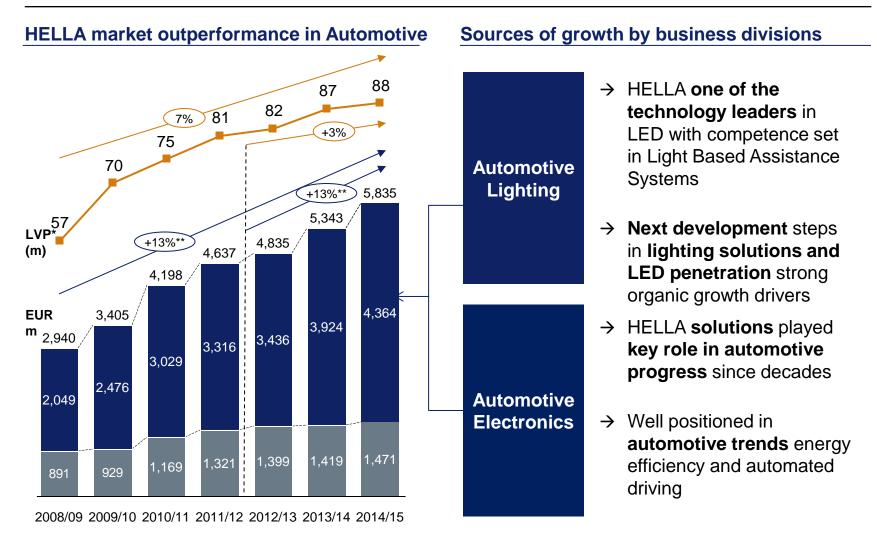
Hella products (examples)

- → Full-LED headlamps and rear lamps
- → OLED rear lamps
- → Engine Compartment Actuators (waste gate, TAS, TOS)
- → Rear applications
- → DC/DC converter
- → Intelligent battery sensors
- → Hybrid rear lamps
- → Interior lighting systems
- → Vacuum pumps
- → Radio transmitter keys
- → Small lamps (e.g. fog, CHMSL, side turn indicator)
- → Electrical power steering
- → Accelerator pedal sensors
- → Body control modules
- → HELLA with clear strategic focus on **areas that show attractive growth potential** (emission reduction, safety increase)
- → Electronic components projected to substantially benefit from **higher electronic content** in future cars
- → Multiple innovative products already on the market and innovations to come from current pipeline





HELLA's automotive portfolio has outperformed the market by 600bsp, acceleration to >900bsp in the last 3 years



^{*}Global Light Vehicle Production; ** CAGR Automotive segment only (external sales) including FX

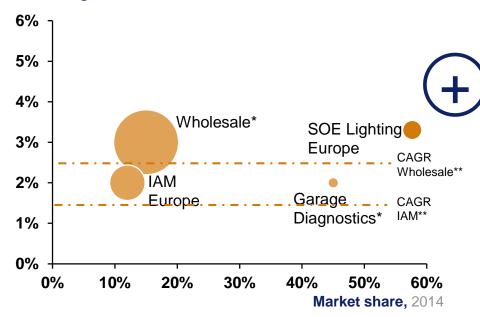


Aftermarket and Special OE will contribute to growth and profitability

HELLA's positioning for future growth



Market growth, CAGR 2014-19E



Source: External market study commissioned by HELLA (2014), HELLA analysis *Wholesale includes DN,PL,NOR, Garage diagnostics DACH, ** expected 5-years CAGR

HELLA in market leadership positions¹

- → Leadership in European Aftermarket # 1-3 in IAM, WD, and diagnostic systems
- → HELLA Aftermarket generating structurally slower but stable growth
- → Stable cash flow generation by **HELLA Aftermarket**
- Future market discontinuities
 - Consolidation
 - Digitalization
 - Changing customer preferences
- → Leadership in Special OE # 1 in Special OE Lighting Europe
- → The transfer of competence offers opportunities like **LEDification**
- → Importance of generating critical business sizes

¹⁾ All figures related to selected markets and product categories based on HELLA's portfolio, as covered in the market study



Unique Aftermarket positioning in the value chain to capture opportunities of new market trends

Unique position

Strategic focus

Customer proximity and high distribution power together with core product competences as OE supplier

→ Optimization and increase of current portfolio

- → Additional potential through clearly defined portfolio competence
- → Improvement of customer access

A

Strong network concept that integrates HELLA wholesalers to achieve scale benefits

- → Completion of NORDIC FORUM organization to utilize synergies and economies of scales
- → Selected share increase and acquisitions
- → Use UCANDO as digital asset

В

Portfolio development tailored to meet market requirements and technological trends

- → Integration of HELLA
 Gutmann into HELLA network
- → Systematic use of HELLA Gutmann date and diagnostic competence
- → Offer advanced high tech products and technologies

Key trends

Consolidation and new players

- → Wholesale consolidation and professionalization at wholesale and garage level
- → Influence of intermediaries
- → Low cost parts suppliers entering market

Digitalization

- → New online business channels and interfaces
- → Big data and comparability of offering

Changing customer preferences

- → E-mobility and autonomous driving need highly sophisticated products and garages
- → Less importance of car and need for more efficient repairs



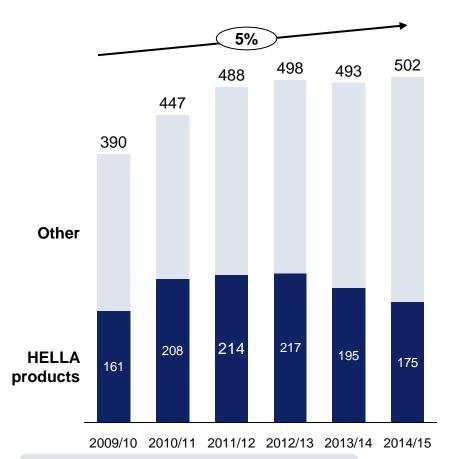


HELLA's stable IAM business is well positioned for future key market trends



HELLA historic growth path

EUR millions



Levers for execution of growth strategy

- → Achieve sales growth through portfolio competence and a portfolio roll-out in all local entities
 - OE production
 - Qualified IAM production
 - Re-packaging
- → Increase share of HELLA products at core European customers. Improve customer access
 - International KAM-structure
 - Key account improvements
- Closure of regional distributions gaps
- → Maintain competitiveness through cost optimization
- → Explore e-Commerce opportunities



NORDIC FORUM integrated concept

UCANDO - Organic growth

- Utilization of NF foot print
- Utilization of 3rd party WDs
- Development of an integrated platform

Future development - Big Data

Growth

- Higher degree of utilization of HELLA Gutmann, UCANDO
- Nordic Forum internal workshop data

Digitalization

Expansion of NF to new markets

- Czech/Slovakia
- Sweden
- Other regions

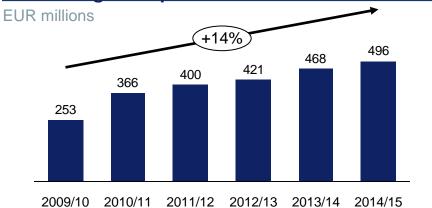
NORDIC FORUM

Organic Growth / Focusing

Extension by M&A and new JVs

- Further improvement of market position in Poland
 - Further targets in Europe
 - Founding new joint-venture

Historical growth path



Nordic Forum Concept

Levers for execution of growth strategy

- → Further optimization of procurement
- → Further harmonization of IT
- → Ramp-up and expansion of digitalization strategy with ecommerce (B2C)
- → Developing and testing the digitalization strategy for B2B2C (Integrated Services Platform)
- → Inorganic expansion

Takeover of **100% shares** in **INTER- TEAM** and **FTZ** in September and November 2015

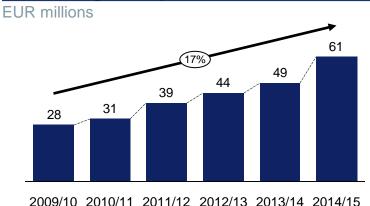


Workshop business with pivotal role for buying process based on high tech offering and competences

HELLA Gutmann positioning

- → Development from diagnostics provider to repair and maintenance specialist for high tech workshop products
- → Generation, analysis and usage of "Big Data" in new business fields
- → Premium provider of workshop solutions, diagnostic tools and garage equipment
- → Workshop proximity enables technical services for HGS and whole HELLA IAM organization
- → **High tech offering** based on diagnostic competence (camera systems, radar, exhaust

Historical growth path



Market & trends

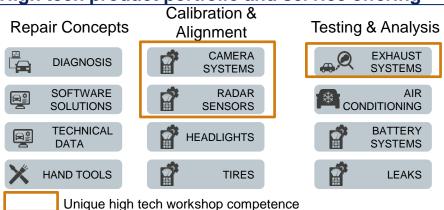


- → E-mobility and autonomous driving
- → Car-sharing solutions
- → Less importance of car



- → Increasing complexity, functionality and interfaces in modern cars
- → Steering of customers/ drivers and related parts' purchase by OEMs, IAM & Intermediates

High tech product portfolio and service offering





Growth path for HELLA's Special OE segment to be strengthened by clear product and marekt strategy

Areas

Off-highway













Premium & Special Vehicles



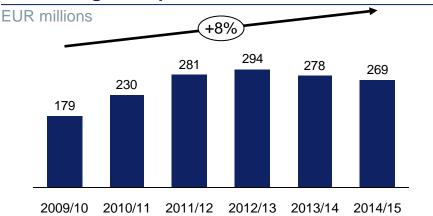




Strategic direction

- → Drive LEDfication
- → Drive advantage of synergies with automotive sector
- Customized / semi-customized headlamp solutions with innovative technology
- → Push technology upgrade growth with E/E off-the-shelf
- → Leverage lighting customer base to develop electronic product portfolio
- → Local portfolios for emerging markets
- → Parts of business to be analyzed if competitive size is achievable

Historical growth path





HELLA is well positioned to outperform the market in the future

Historical performance

→ Track record of long term market outperformance

Existing position

- → Strong competitive positions
- → Attractive market segments
- → Technological leadership

Concept for future growth

→ System competence in Lighting and Electronics to participate in fundamental market trends



Products for the **reduction of C02 emissions** and increase of **energy efficiency**



Product for prevention of accidents



Products for higher **individualization** and **personalization**



Products for comfortable convenient driving

- → Aftermarket business is well positioned to capture major key trends (consolidation, digitalization and change in customer preferences)
- → Special Applications business pushed by extended product-market strategy







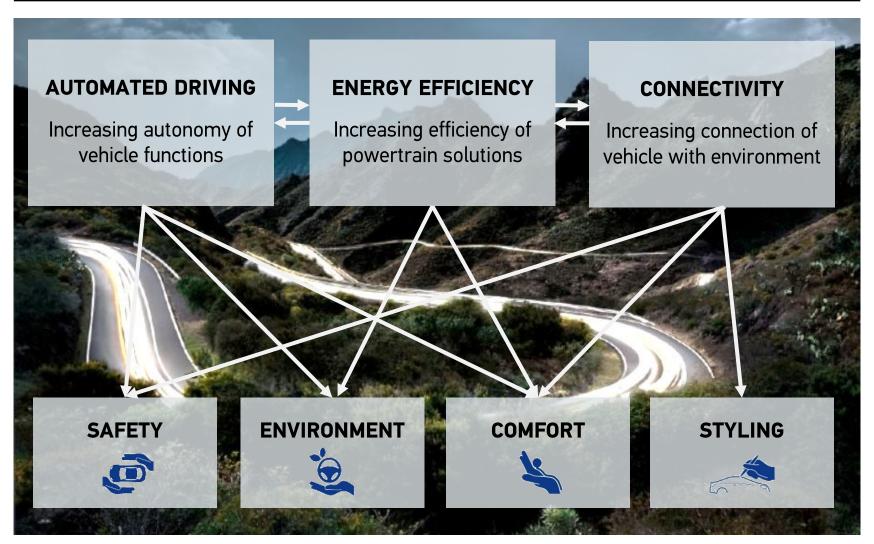




Road to Future Mobility Market Trends & Outlook for HELLA CAPITAL MARKETS DAY 2015

Dr. Kristian Döscher
Head of Global Marketing Original
Equipment
London
02 December 2015

The three fundamental market trends drive growth of HELLA product domains





Market demand for automated driving expected to grow by 19.2% until 2019

AUTOMATED DRIVING – Trend towards automation of driving and parking

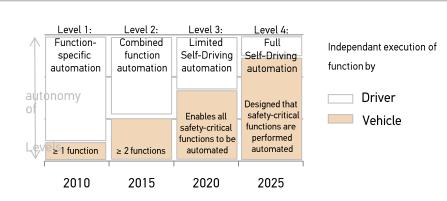


Figure 1: Levels of autonomous driving (Source: NHTSA, modified)

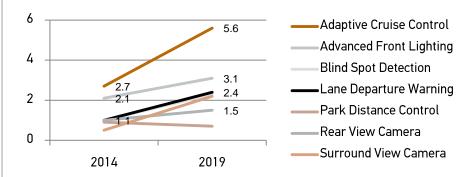


Figure 2: Growth of driver assistance technologies in bn USD (Source: Strategy Analytics)

Gradual transition from Driver Assistance functions to Automated Driving functions

- Acceptance of automated driving functions determined by reliable, proven safety features
- Fundamental change in consumer value for individual mobility if accepted by consumers

Transition to Automated Driving increases penetration rates of existing new technologies

- Existing driver assistance functions are key enablers for automated driving functions
- New functional requirements facilitate growth of new technologies (i.e. Front/Side Detection)

Sources: IHS, NTHSA, Strategy Analytics



Market demand for energy efficiency is expected to grow by 40% until 2025

ENERGY EFFICIENCY – Trend towards reduction of energy consumption and emissions

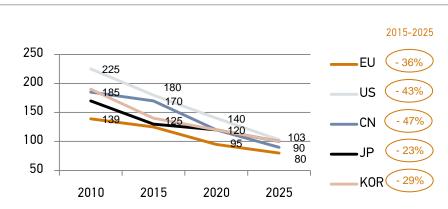


Figure 3: Global emission regulations in C02 (g/km) per NEDC (Source: IHS)

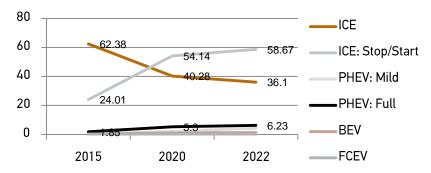


Figure 4: Allocation of powertrain technologies in mill. vehicles (Source: IHS)

Continuing trend towards energy efficiency gains driven by global emission regulations

- Ambitious emission targets drive need for higher energy efficiency across all regions
- Efficiency gains are increasingly difficult to achieve by more sophisticated technologies

Future powertrain concepts to be dominated by internal combustion engines with start/stop

- Initiatives like down-sizing and turbo-charging prevail, but growing focus on Hybrid technology
- Further efficiency gains drive growth of new technologies (i.e. 12V/48V dual-voltage systems)

Source: IHS, Strategy Analytics



Market demand for connectivity is expected to grow by 204% until 2021

CONNECTIVITY – Trend towards integration of internet, sensors and big data

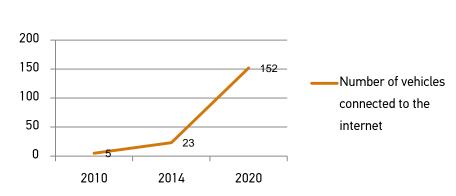


Figure 5: Number of vehicles connected to the internet in mill. pieces (Source: IHS)

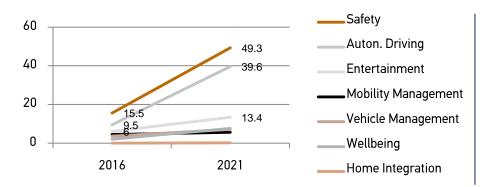


Figure 6: Market potential for connected car technologies in bn. USD (Source: PwC)

Consistent trend to permanent connection of vehicles to environment and Internet of Things

- Increasing integration of digital technologies to interact with vehicles and infrastructure (V2X)
- Higher connectivity drives growth of vehiclebased sensors, control units and interfaces

Increasing connectivity enhances new vehicle functions and drives new business models

- High levels of connectivity create high volumes of data for processing, analysis and usage
- Service-based business models are emerging from permanent connectivity of vehicles

Source: IHS, FIPA, Visiongain



HELLA develops Electronics & Lighting functions in the domain SAFETY

SAFETY – Products for the prevention of accidents

Surround View Camera Software (NEW)

 Increasing safety by object detection (parking lanes, wireless charging plates) to facilitate automated parking processes

24 GHz RADAR Sensors (UPDATE)

 Increasing safety by rear / side functions such as Blind Spot Detection (BSD),
 Lane Change Assistant (LCA) and
 Rear-Cross Traffic Alert (RTA)

Electric Power Steering (UPDATE)

 Redundant Steering approach (control unit & sensors) for automated driving requirements

Front Camera Software (UPDATE)

 Increasing safety by front functions such as Lane Departure Warning (LDW) & Traffic Sign Detection (TSR)

High Definition LED Headlamps (NEW)

- · Glare-Free High beam functionality
- High resolution for precise beam pattern
- Full automatic lighting assist system

Surrounding Light (NEW)

- Multiple lighting elements placed around the car
- Interaction with light based on sensor information
- Multi Lens Array generates uniform light carpet

LED Signal lamp functions (NEW)

 Advanced lighting functions to enhance recognition of autonomous vehicles

77 GHz RADAR Sensors (NEW)

 Increase of safety by front / side functions to detect other vehicles (i.e. Front Cross Traffic Alert)



HELLA develops Electronics & Lighting functions in domain ENVIRONMENT

ENVIRONMENT - Products for the reduction of CO2 emissions & increase of energy efficiency

Intelligent Battery Sensor

- Detection of battery status
- Identification of state of health, charge & cranking

Fuel Control Modules (UPDATE)

 On-demand supply of fuel from tank system to engine to reduce fuel consumption

Fuel Level Quality Sensor (NEW)

 Continuous measurement of fuel level and quality to optimize fuel supply and combustion process

Electrical Vacuum Pump (UPDATE)

 On-demand supply of vacuum for braking systems for downsized combustion engines

LED Headlamps (UPDATE)

- New optical elements for LEDs
- Basic LED headlamps with lower power consumption than Halogen

LED Rear Lamps (UPDATE)

- Adaptive systems with less brightness
- Reduction of number of LED due to optics with high optical efficiency

Battery Management Systems (NEW)

- Active Management of Lithium-Ion batteries by active cell balancing
- Suitable for 12V, 48V power systems

Dual Voltage DC/DC Converter (NEW)

 Dynamic management of power levels for active start/stop and engine-off coasting functions (12V / 48V)

Cooling Valve Actuator (NEW)

 Active management of auxiliary cooling circuits to improve heat-up phase and reduce CO2 emissions



HELLA develops Electronics & Lighting functions in the domain COMFORT

COMFORT - Products for the increase of comfortable, convenient driving

Intelligent Antenna Module (NEW)

- Coordination of communication with infrastructure / other vehicles (V2X)
- Integration of functions into central unit

Body Control Modules (UPDATE)

- Coordination of central electronic functions
- Handling of (remote) diagnosis interfaces
- Latest SW architectures (i.e. AutoSar)

Rain Light Sensors (UPDATE)

 Detection of Sun, Rain, Solar, Humidity and Head-Up Display Intensity integrated into one compact sensor

Passive Access Systems (UPDATE)

- Entry & Start functions based remote keys
- System solution with keys, ECU, antennas
- Future technologies such as NFC & BTLE

Laser Headlamp functions (NEW)

- Projection of information on road
- Dynamic lighting with welcome scenario

Structural Health Sensors (NEW)

- Detection of parking & transport damages
- Detection of pedestriants (emergency stop)
- Value-Added for CarSharing / Leasing / Rental

Feedback Accelerator Pedal (UPDATE)

 Intuitive, haptic feedback to driver in specific situations (i.e. safety, economy, change of powertrain settings)

Air Quality Sensors (NEW)

 Detection of C02 emissions and particular matter concentration to support active air / oxygen management of vehicles



HELLA develops Electronics & Lighting functions in the domain STYLING

STYLING - Products for higher individualization and personalization

Intelligent OLED Rear Lamps (NEW)

- New Organic LED Light Sources
- New appearances with Holographic light effects in rear lamps
- Dynamic light features

Ambient Interior Lighting (UPDATE)

- Direct coupling with vehicle sensor information
- Multi-Color LED Modules and Light Guides
- Personalization and Interaction with driver

LED Headlamps (NEW)

 New optical elements allow for smaller packaging concepts which facilitate slim headlamp design

Ambient Exterior Lighting (NEW)

- New lighting features around the vehicle enabled by multi-lens array technology
- Individualization and personalization

Design-driven remote keys (NEW)

- Innovative materials for remote keys
- New haptics for keys to enhance personalization & value appearance



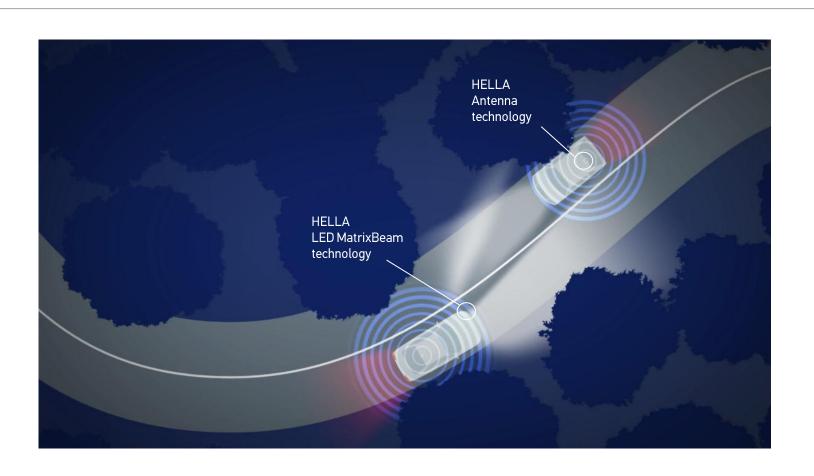
HELLA well positioned to benefit from market trends in Automotive Industry

HELLA offers a unique combination of system competencies in advanced Electronics and Lighting technologies for the Global Automotive Industry COMFORT SAFETY **ENVIRONMENT STYLING** Growth in domain Growth in domain Growth in domain Growth in domain COMFORT based on SAFETY based on **ENVIRONMENT** based STYLING based on control units and Rear Radar and on Fuel System and design-driven Remote **High Definition-**Adaptive FrontLighting **Energy Management** Keys, LED Headlamp Headlamp and Sensor plus Front Radar technologies for ICE & and OLED Rearlamp technologies technologies PHEV powertrains technologies



HELLA well positioned to benefit from market trends in Automotive Industry

EXAMPLE - How vehicles will sense the and interact with their environment in the future











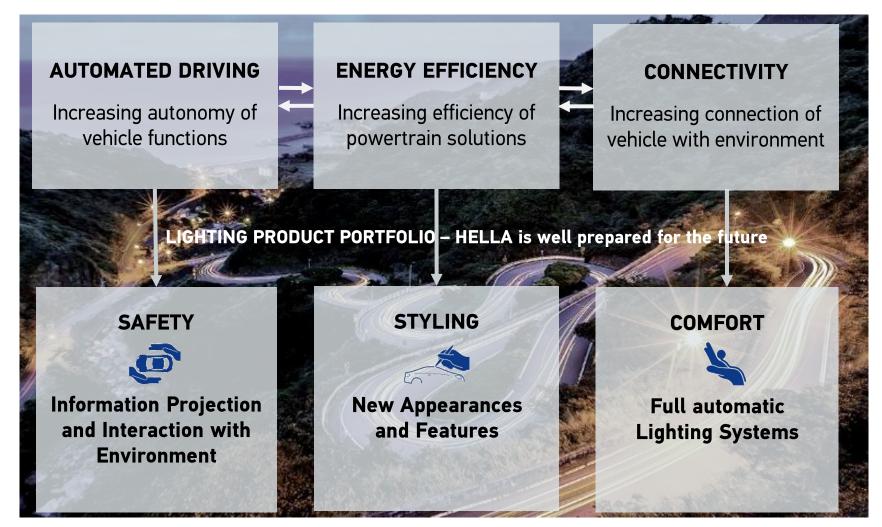


New Trends in LED-Lighting -Future possibilities for styling and functionality CAPITAL MARKETS DAY 2015

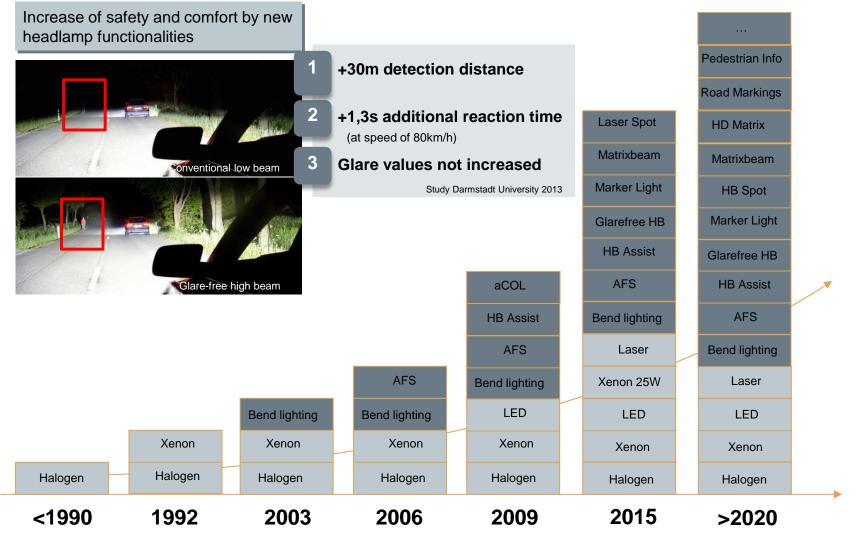
Dr. Michael Kleinkes
Head of Design & Development
Business Division Lighting
London
02 December 2015

Lighting Portfolio on the Road to Future Mobility

HELLA Products as Perfect Fit to Future Market Trends



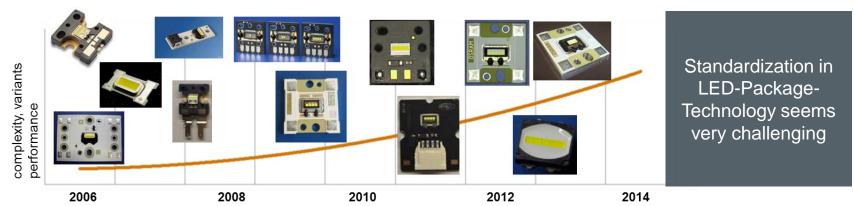
Lighting + Electronics + Software offer further innovation potential Market demand for new headlamps features require high tech solutions





Miniaturization in LED-Technology – opportunities and challenges Car stylists just discover the opportunities of LED lighting



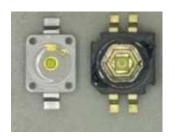




Progress in LED-Technology

"Standardization of LEDs" by reducing package size

Miniaturization Singlechip-LED



2005 30 lm @ 1W SMD-Technology



2010/11 70 lm @ 1W SMD-Technology



> 2014 > 90 lm @ 1W

CSP-Technology





> **2017** ? Im @ 1W RealCSP-/ WLP-LED tomorrow

Source: Philips, Datasheet

Miniaturization Multichip-LED



2007 30 lm/W



2009/10 65 lm/W



2012/13 90 lm/W







> 2014 SMD-> 110 lm/W Technology

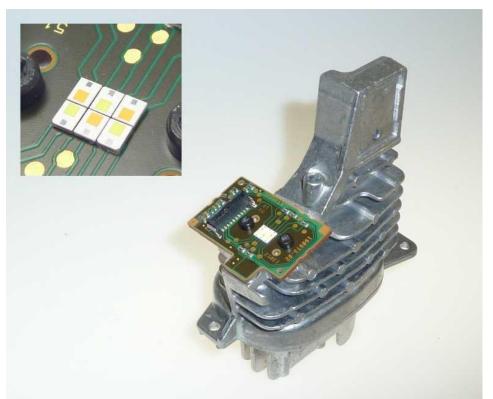


Big challenge in LED-Technology: High degree of innovation, growing complexity, miniaturization of LED package, increasing mix of technologies, robustness on system level



Miniaturization in LED-Technology – opportunities and challenges Opportunity: New light functions

Audi A3 Day-time- Running Light and Turn-Indicator out of one light guide

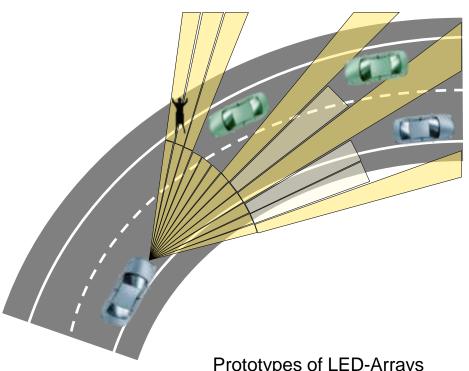


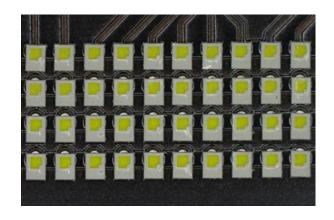




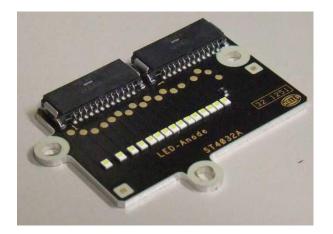


Miniaturization in LED-Technology – opportunities and challenges Opportunity: Capable of adapting LED AFS light sources





Prototypes of LED-Arrays with CSP-LED technology for an LED AFS headlamp





Matrix Systems

Principle



Addressable LEDs enable selective fading out of other road users.

Dimmed area

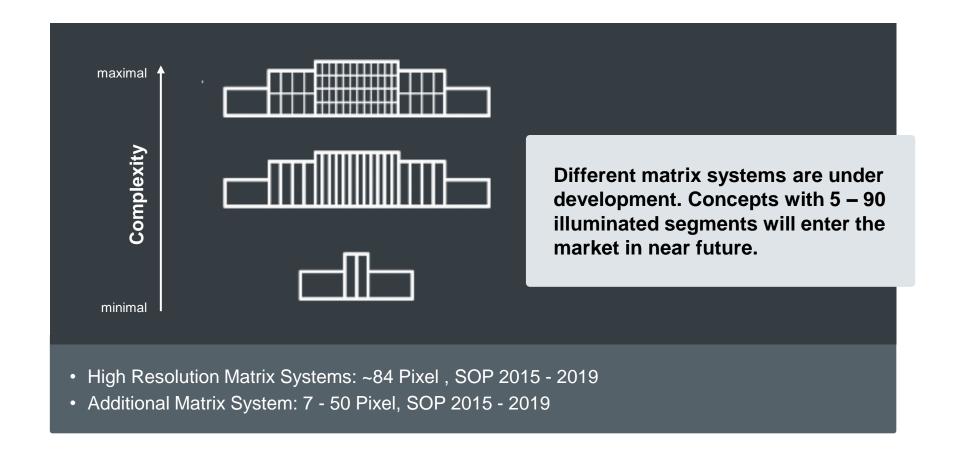
Illuminated area

Viewing area of the front camera recognizes oncoming traffic and vehicles being followed



HD-Matrix Systems

Market and Customer Situation for the next 2-5 Years





FEATURES

BENEFITS

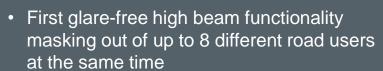
Matrix Systems

Audi A8 (SOP 2013)



MATRIX BEAM 5 reflectors each with a 5-chip-LED







 Vehicles driving ahead are detected in a distance of 300- 400m



- Elimination of glare for oncoming vehicles
- Increased safety: 30m more detection distance means 1,3s additional response time
- Reduced driver fatigue due to an automatic system



Matrix Systems Audi A8 (SOP 2013)

Complexity of data & facts





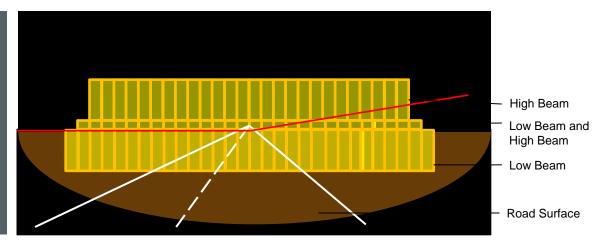
Matrix Systems Daimler

Next generation Daimler Multibeam in the new E-class

- High-Resolution LED Grid Module with 84 LEDs
- Freely configurable light distribution
- Resolution increased by a factor of 3.5
- Up to 2.5 times greater illuminance compared with regularly available systems



- Specific cells of the Light Distribution can be hidden/ covered up
- Dynamic functions within low beam mode
- Ultra-high speed, precision and performance





Matrix Systems Daimler

Next generation Daimler Multibeam in the new E-class

HIGHER RESOLUTION

- Precision
- Use of high beams
- Reduced glare
- Glare-free hazard lighting





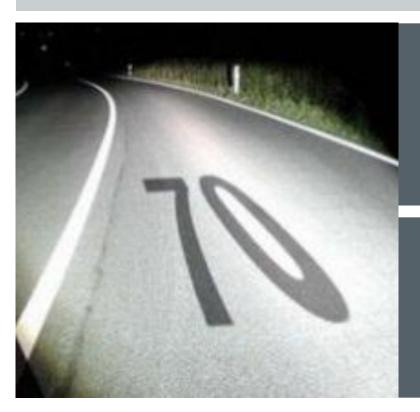
FEALURES

BENEFITS

HD(High-Definition)-Matrix Systems Next Generation Headlamps until 2020

Customers searching for new functionalities, demand for higher resolution

Possible Functionalities

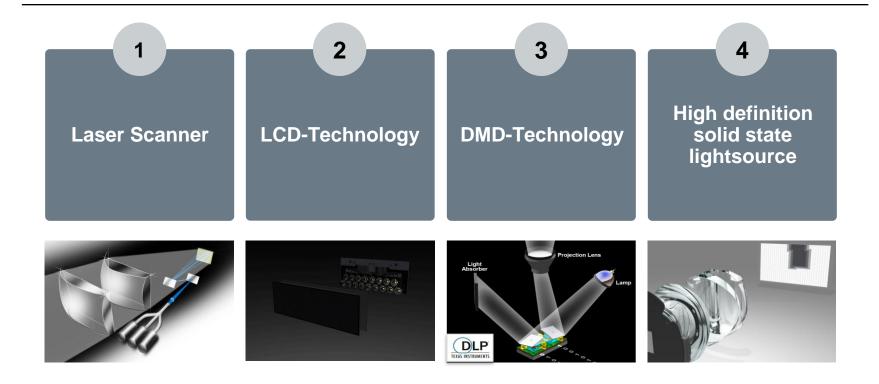


- Lane guidance
- Animations
- Illuminated information on the road
- Combination of light functions
- Project adaption by software
- Increasing safety
 - Early obstacle detection
 - Information in field of view keeping eyes on the road
- Increased visibility due to high beam always on



HD-Matrix Systems

Overview of possible Technologies for Next Generation Headlamps



High definition concepts with switchable light emitting areas ("pixel") between 1.000 and 400.000 pixel are under development to realize free programmable light distribution.

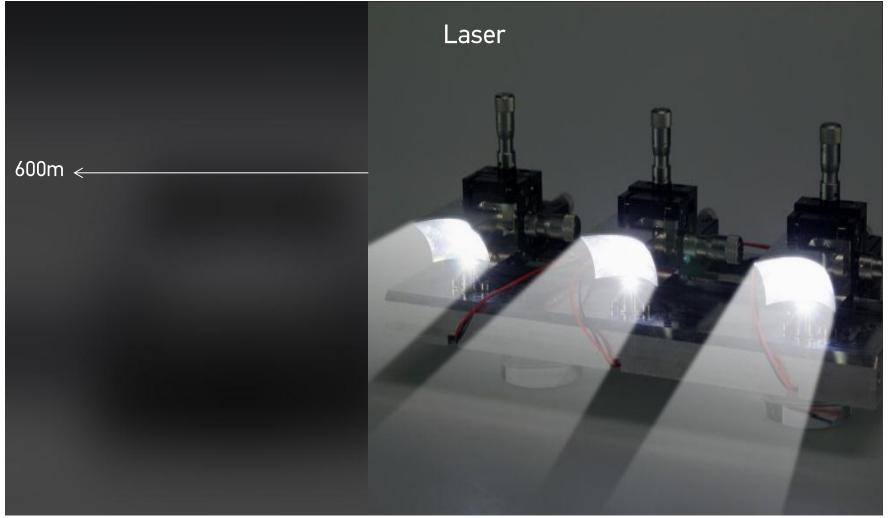


Now And In The Future

What Is Driving The Laser Technology In Lighting?



Now And In The Future





Now And In The Future





Now And In The Future

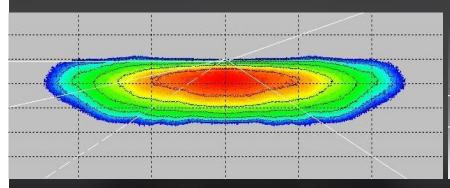




Foreground Illumination

Total light distribution:
Foreground left + right headlamp

Laser allows for a foreground light output of only 10 mm in height





Features

- Light Output ≈ 1600 lm
- Efficiency: 57%
- Peak Performance ≈ 30 lx

Benefits

- New headlamp design with very thin appearance
- Reduced space for headlamp integration
- High-tech image of laser



Signal Lighting



Features

- Red laser diode for signal lighting
- Stop light with line-laser and EdgeLight light guide
- Dark-red color of laser diodes (648 nm)

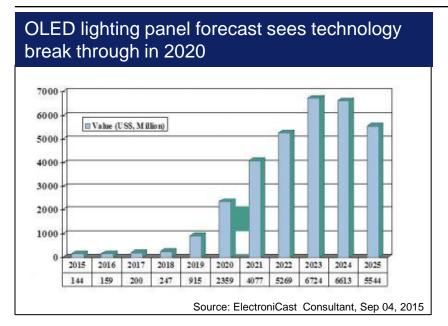
Benefits

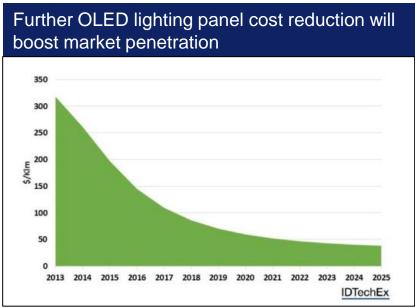
- High tech styling
- Intense color saturation

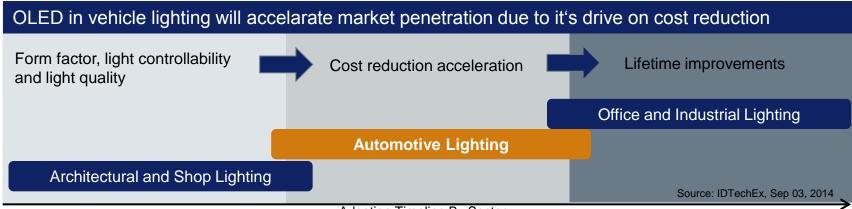


OLED Lighting – opportunities for new night time appearances

The market for OLED lighting sees strong growth









OLED - Innovative Graphics and Future PossibilitiesOLED Technology

LED + LIGHT GUIDE anorganic semiconductors (InGaN, AlInGaP): solid state crystals • point light source



OLED

- organic semiconductors: carbon hydrates, small molecules or polymers
- ultra thin layers (< 1µm) deposited on large area substrates → surface emitter

Advantages

- new styling possibilities
- no optical system needed
- homogeneity
- Segmented areas



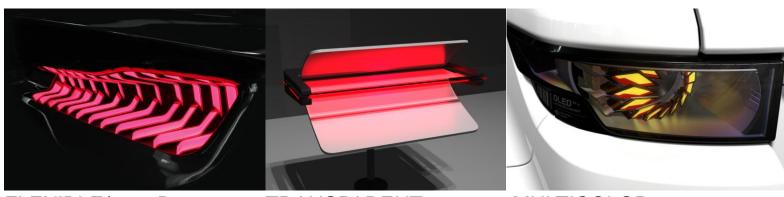




OLED - Innovative Graphics and Future Possibilities

Next Generation of OLED Technology





FLEXIBLE/ 2 ½ D

TRANSPARENT

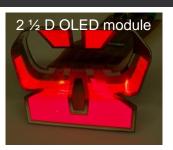
MULTICOLOR



OLED - Innovative Graphics and Future PossibilitiesFlexible OLED

NEW STYLING POSSIBILITIES





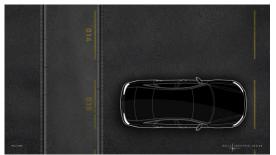




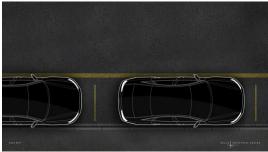


The Road to Future Mobility

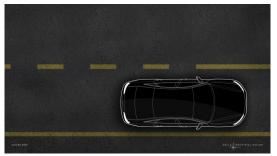
Mult-Lens Array for dynamization of Exterior and Interior Lighting







Advanced Exit Lighting



Hazard Warning



Staging and Interaction of Light as general trend

Emotionalization by Light Scenarios

Opportunities of additional Comfort and Safety Features

Possible Applications

- Welcome-Light
- Entrance- / Exit Light with color change
- Maneouvering Light with additional side lighting
- Light Animations in Headlamps or Rear Lamps
- Advanced warning scenarios for broke down cars
- Light Scenarios for Interior lighting with dynamic color change

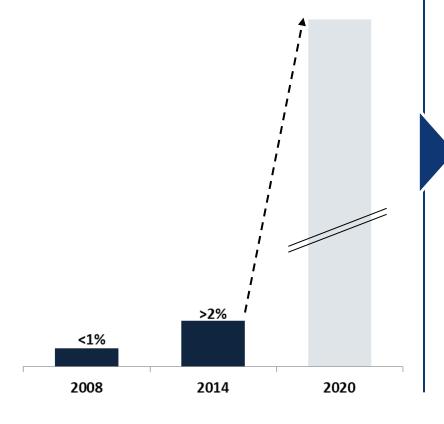


The Road to Future Mobility

LED/OLED technology – Safety, Efficiency and Styling drive penetration

Global LED trend

Share in the global headlamp market: The LED era begins



- Establishment of LED technology in the volume segment and development of complex high-definition headlamps
- New functionalities adds to road safety



 Accelerated development in the OLED segment increases scope for brand differentiation through lighting design



 Ambient lighting sets the stage in the passenger compartment



 Energy efficient lighting systems reduce the total energy consumption of the car and long lifetime to create a cleaner environment









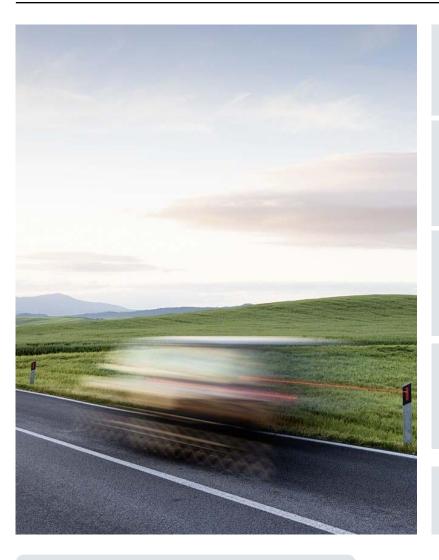


Smart Solutions for Automated Driving, Increased Efficiency and Connectivity CAPITAL MARKETS DAY 2015

Michael Jaeger
Member of the Executive Board
Business Division Electronics
London
02 December 2015

HELLA Electronics

Agenda



ELECTRONIC PORTFOLIO ON THE ROAD TO FUTURE MOBILITY

AUTOMATED DRIVING

ENERGY EFFICIENCY

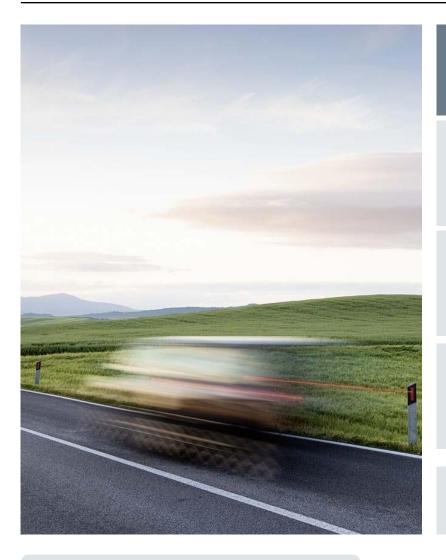
CONNECTIVITY

CONCLUSION



HELLA Electronics

Agenda



ELECTRONIC PORTFOLIO
ON THE ROAD TO FUTURE MOBILITY

AUTOMATED DRIVING

ENERGY EFFICIENCY

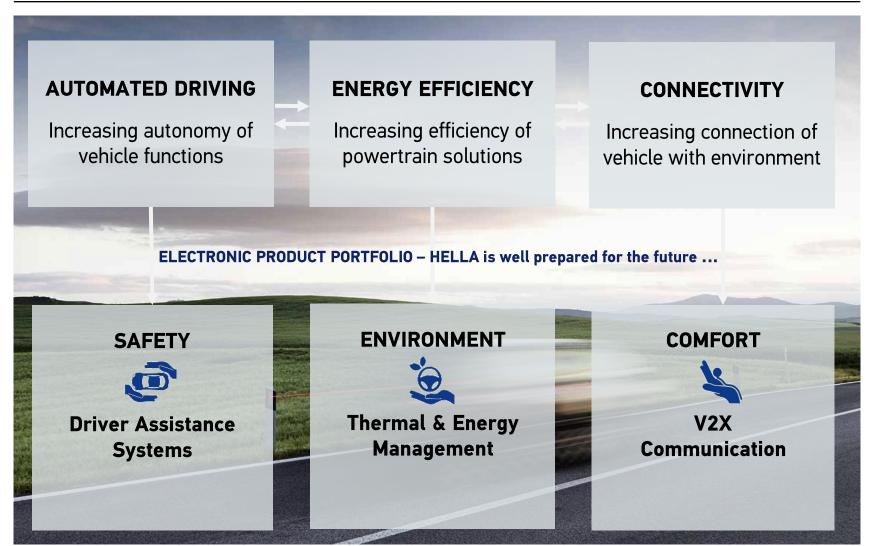
CONNECTIVITY

CONCLUSION



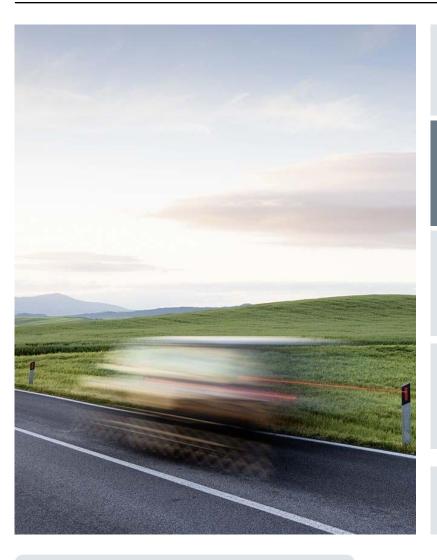
Electronic Portfolio on The Road to Future Mobility

HELLA Product Domains as Perfect Fit to Benefit from Future Market Trends



HELLA Electronics

Agenda



ELECTRONIC PORTFOLIO ON THE ROAD TO FUTURE MOBILITY

AUTOMATED DRIVING

ENERGY EFFICIENCY

CONNECTIVITY

CONCLUSION



Automated Driving

Radar Technologies for more Safety and Comfort in Vehicles of Tomorrow

77GHz Radar



FRONT CROSS TRAFFIC ALERT (FCTA)

Identifies & reacts on approaching vehicles from the front side



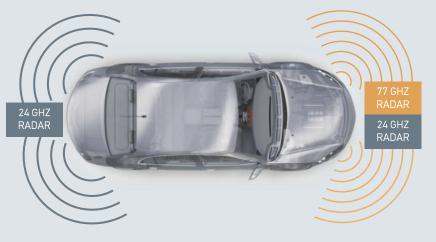
ENHANCED BLIND SPOT DETECTION (EBSD)

Identifies & reacts on approaching objects (e.g. cyclist) from the side



BLIND SPOT DETECTION (BSD)

Identifies & warns on approaching vehicles in the blind spot zone





EXIT ASSISTANT (ESTA)

Identifies & warns on approaching vehicles during exit process



LANE CHANGE ASSISTANT (LCA)

Identifies & warns on approaching vehicles from the distance



REAR CROSS TRAFFIC ALERT (RCTA)

Identifies & warns on rearcrossing traffic while reversing





Automated Driving

24GHz Radar Sensor – HELLA as Pioneer for Rear Applications

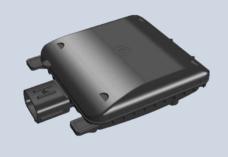
// FEATURES

- Fast chirp modulation principle provides higher functional performance
- High integration level of processor (Single Core -> Dual Core)
- Max. synergies between 4th Gen (24 GHz) and 5th Gen (77GHz)
- High integration of Radar Chip (2 MMIC ext. IF -> 1 MMIC integr. IF)

Example: Blind Spot Detection (BSD) 24 GHZ RADAR

// BENEFITS

- Increased level of detection certainty
- Enhancement of sample data by fast chirp modulation
- Integrated band-pass filter
- Improved separation between standing and mobile objects
- Scalable processor family





Automated Driving

77GHz Radar Sensor - High Performance for Front-Side Applications

// FEATURES

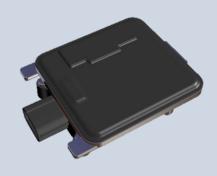
- New RF-CMOS Radar System Chip (RSC) technology
- High integration due to Radar System Chip including MMIC + ADC + Chirp-Gen.
- New fast chirp modulation principle provides higher functional performance
- Master/Master Concept
- ASIL B compliant HW-design

77 GHZ RADAR



// BENEFITS

- Front-side application possible
- Reduced size & weight (significant package reduction compared to previous sensors)
- Significantly increased measurement performance especially for near range applications
- Enlargement of sensor detection areas, trend towards 360° detection





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ELECTRONIC PORTFOLIO ON THE ROAD TO FUTURE MOBILITY

AUTOMATED DRIVING

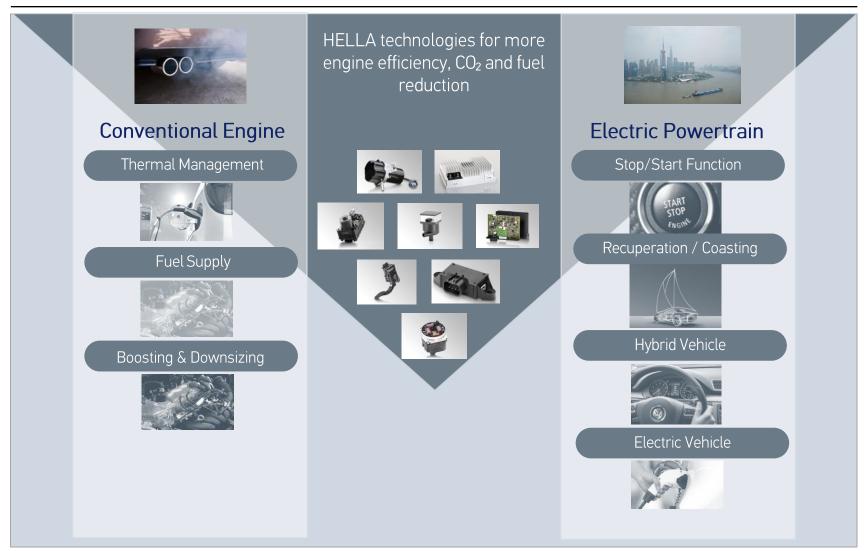
ENERGY EFFICIENCY

CONNECTIVITY

CONCLUSION



HELLA Key Technologies on the Road towards Electrification





Cooling Valve Actuator (CoVA) for Optimal Cooling Circuit Control & Precision

// FEATURES

After Engine Start

Shortening of engine warm-up phase

City Driving

Minimization of friction

Highway Driving

Optimization of engine combustion

Cooling Valve Actuator (CoVA)



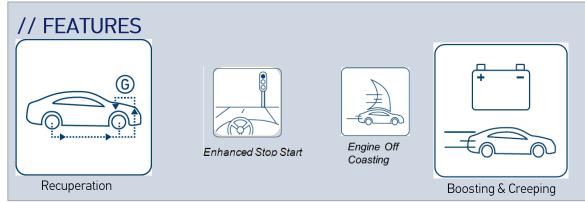
// BENEFITS

- Zero coolant flow for rapid
 engine warm up → CO₂ reduction
- Independent from the coolant temperature
- High accuracy and robustness due to CIPOS® technology
- Qualified to 160 °C ambient temperature
- Flexible mounting solutions
- Component protection by preventing temperature overshoots





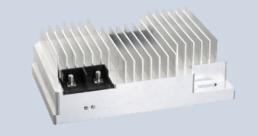
48V System Architecture – Low Cost Hybrid Approach



48 V DISTRIBUTED SYSTEM 48 V DISTRIBUTED SYSTEM Cluster 1 Cluster 1 Cluster 1 Cluster with local storage Loads

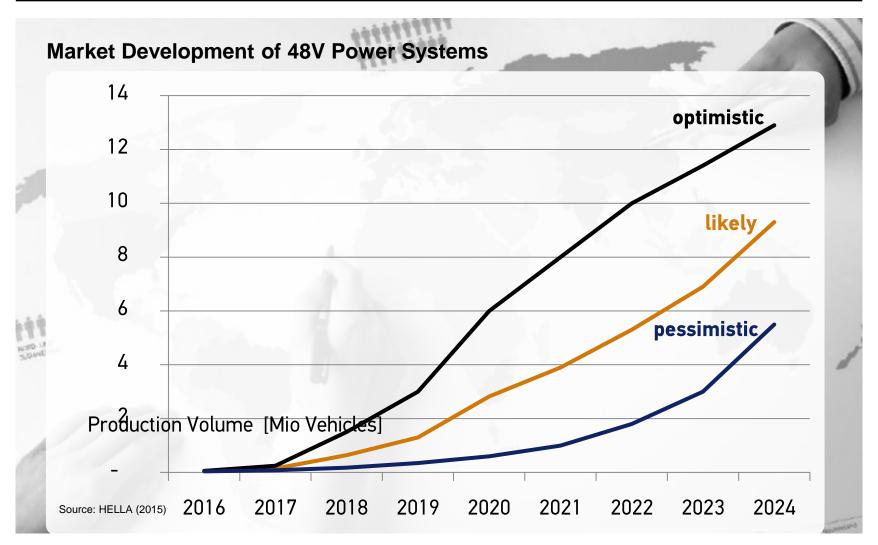
// BENEFITS

- Scalable Power Class of 1-3kW
- Bi- directional energy transfer
- High efficiency 97%
- Protections
- High availability (fail safe)
- Flexible thermal interface
- Design for manufacturing





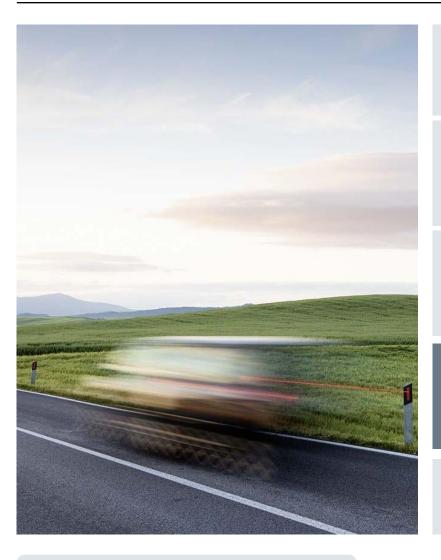
48V Power System is Steadily Gaining in Importance in the Future





HELLA Electronics

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ELECTRONIC PORTFOLIO ON THE ROAD TO FUTURE MOBILITY

AUTOMATED DRIVING

ENERGY EFFICIENCY

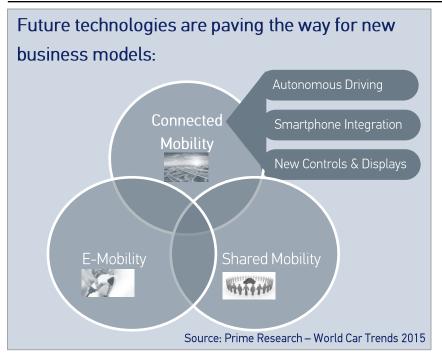
CONNECTIVITY

CONCLUSION



Connectivity

HELLA Benefits from Market Trends Connectivity – Directly and Indirectly











Connectivity

Intelligent Damage Detection Gathers Momentum with Future Mobility

// FEATURES

- Structural Health and Knock Emission Sensors integrated in bumper or PDC
 bracket to measure and analyze vibrations (structure borne sound technology)
- Damage alarm message is forwarded to the BCM, which forwards information
 (e.g. photo or video) to driver's smartphone or OEM's call centers
- Light carpet is switched on (→ symbiosis of HELLA electronics and lighting)

Example: Intelligent Damage Detection RKET RKET RKET RKET RKET RKET RKET RKET RKET

// BENEFITS

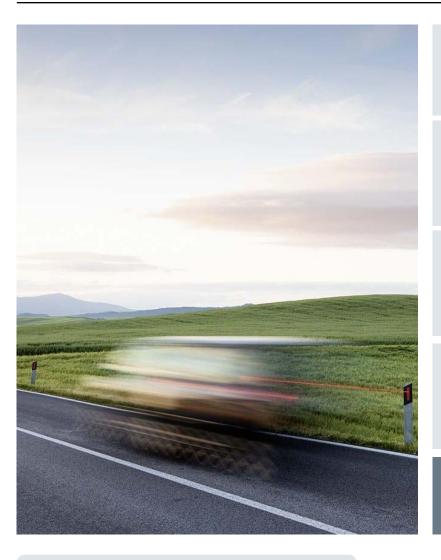
- Transparency about damage location, time and damage type
- Right allocation of person who caused the damage mainly for car rental, leasing and sharing
- Immediate information (e.g. workshop, insurance claim processing)
- Modular system architecture by intelligent sensor nodes at front and/or rear bumper





HELLA Electronics

Agenda



ELECTRONIC PORTFOLIO ON THE ROAD TO FUTURE MOBILITY

AUTOMATED DRIVING

ENERGY EFFICIENCY

CONNECTIVITY

CONCLUSION



Conclusion

HELLA Electronics as Key Success Factor for Future of Mobility

HELLA Electronics is proactively shaping the future in the areas of automated driving, energy efficiency and connectivity Radar-based sensors are in parallel with camera systems the key technology for automated driving and will enable assistance functions of higher quality by complementary data fusion (e.g. front / side functions) Market roll out of 48V power systems seems to be one of the **most** promising CO2 reduction measures in the short- and mid-term besides the improvement of internal combustion engines (e.g. thermal management) Connectivity of vehicles will go far beyond connection to the internet. New sensor and communication technologies will support new mobility solutions combined with new business models (e.g. damage solutions)











Financial Overview and Perspectives CAPITAL MARKETS DAY 2015

Dr. Wolfgang Ollig, CFO

London
02 December 2015

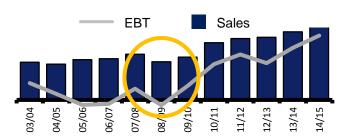
Track record of steady growth across the cycle and resilience of business model

HELLA GROUP sales* in EURbn



- → Sustainable long term growth across the cycle during the last ten years with a clear focus on organic growth (CAGR of 6.5% p.a. since FY 2004/05)
- → Targeted growth trend continued
- → Organic growth of the HELLA GROUP outperformed the automotive market by >5%points in the last 3 years

Automotive*



Aftermarket*



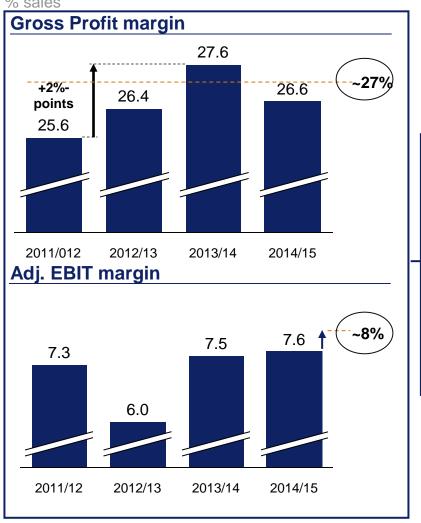
→ Resilient business model with stable cash flow generation through strong share of aftermarket business



^{*}Cumulated Annual Growth Rate; sales as reported w/o adjustments for consolidation or accounting changes

Competitive Gross Profit margin and mid-term EBIT margin potential





Improvement of GP margin achieved

- Improvement driven by innovative product portfolio and operational excellence (LiON)
- Deviations from +/- 27% driven by segment mix, one-offs and new launches in high tech products
- Launch support especially in H1 FY15/16

Gross Profit margin level ~27% regarded as industry competitive

Improvement of adj. EBIT margin achieved

- EBIT reduction in FY 12/13 due to investment into future growth and globalization platform (e.g. increased R&D expenses)
- Scale effects and increased efficiency on structural costs drive margin
- FY15/16 affected by ramp-up expenses

Over the cycle, mid to long-term adjusted EBIT margin of ~8% feasible

EBIT

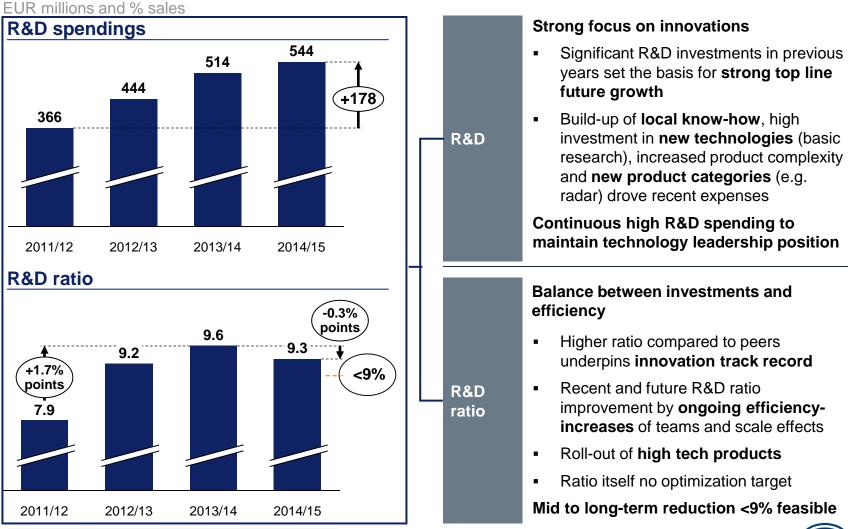
margin

Gross

Profit

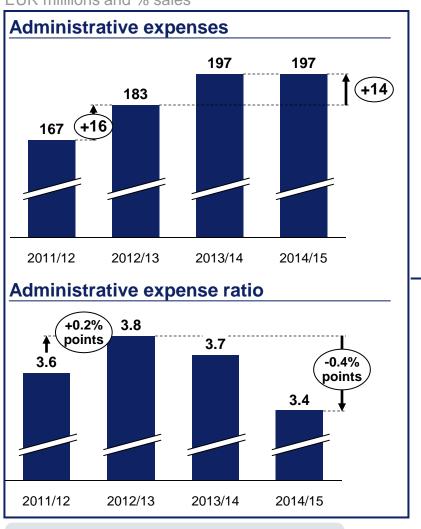
margin

Continued high R&D as basis for future growth



Proven ability to manage costs

EUR millions and % sales



Dedicated improvement programs setup

- Investments in global corporate center network ensure lean administrative processes
- In FY 15/16 further spendings on employee qualification, infrastructure and implementation of standards

Continued focus on global structure to ensure competitiveness

Performance oriented organization

- Efficiency gains through re-location (incl. temporary double-functions) to best cost countries and shared service centers improved OTD and TTM processes
- Continuous optimization through operational excellence improvement initiatives (e.g. LiON)
- Short term constant ratio expected

Process improvements and scale effects drive ratio, long term reduction possible



Admin

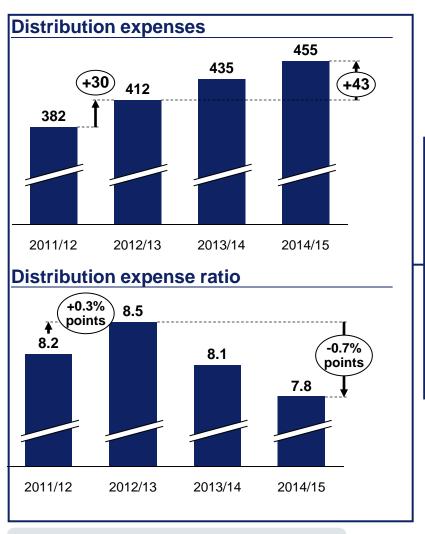
ratio

Admin

expenses

Proven ability to manage costs

EUR millions and % sales



Under-proportional increase of variable costs

- Global aftermarket network main cost driver
- IAM distribution network and European wholesale network extended
- Ongoing improvements monitored e.g. reduction of overhead functions in sales companies, optimized logistics concept

Development of costs well on track

Improvements of ratio achieved

- Higher ratio compared to peers due to high aftermarket share
- Investments in global distribution network until FY12/13
- Ratio reduced by efficiencies gains and declining aftermarket business
- Currently increased investments in ecommerce platform

Short to mid-term optimization potential limited

Distribution

expense

ratio

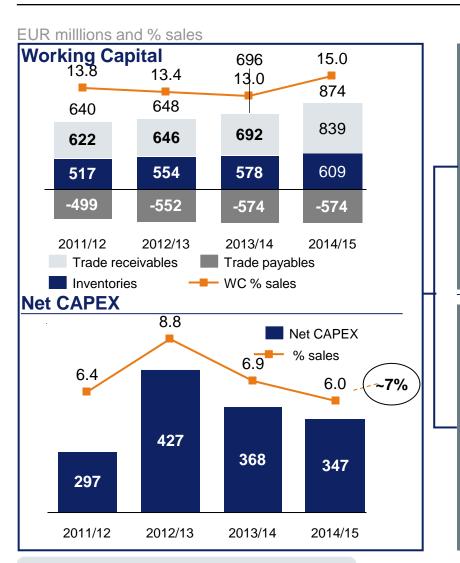
Distribution

expenses

Continuous measure generation to facilitate operating leverage

	Main achievements	Continuous challenges	Actions
Lighting	 Production network optimized Regular design-to-cost workshops during development phase 	 Roll out complex (LED) projects: HR qualifications, production process, quality of components, supplier certification Reduction of non-quality expenses 	 → Local support from technology hubs → Thorough enforcement of improvement
Electronics	 Global development network established, optimized and extended Multiple sourcing strategy implemented 	Global competitive TtM organization	programs → Implement recent "Lessons-learned" → Improve efficiency in
Aftermarket & Special Applications	 Overhead functions reduced with optimized logistics for sales comps Low-cost production in Romania 	 Further harmonization of NORDIC FORUM (e.g. reporting, IT, procurement), strengthen structures Leverage of inventories 	supply chain and own value added → Improve key account organization → Improve customer penetration
Corporate	 Corporate center structure established Overhead functions reduced 	 Qualification of employees to enable complex production & quality monitoring Increase efficiency of corporate center structure Address highly qualified people 	→ Investments in HP

Clearly directed investments and active Working Capital management



Revenue growth, expansion and active management drive WC

- Regional expansion to Asia (increase in receivables)
- Inventory mainly tied to efforts to improve product availability in Aftermarket (increase inventories)
- Currency effects influence WC
- Continuing optimization programs in logistics in place

Net CAPEX down after globalization

- Increase in capex in FY12/13 to significant investments in global footprint
- Continuous investments in customerspecific equipment with increased product complexity needed
- Reimbursements around 130 mill. EUR ease need for CAPEX

Net CAPEX ratio around 7% needed to facilitate organic growth



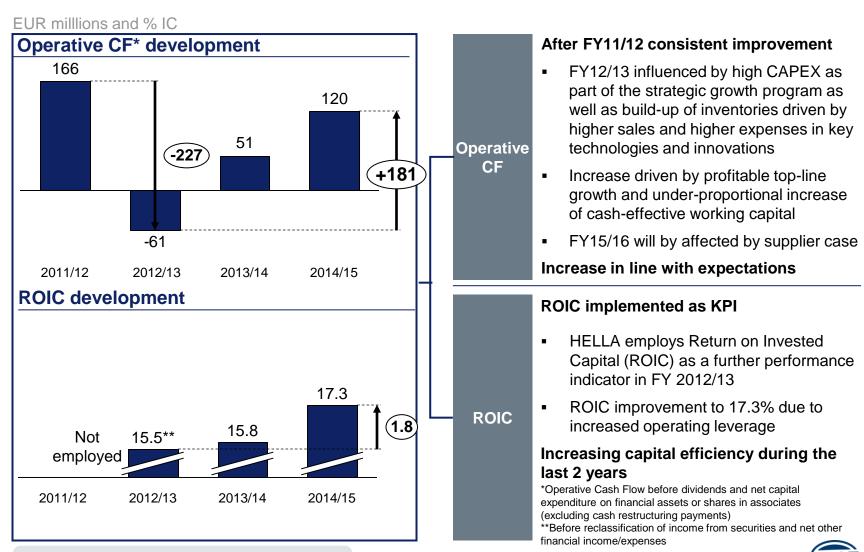
Net

CAPEX

Working

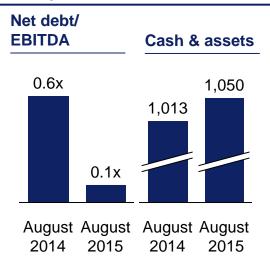
Capital

Strong cash flow and ROIC improvement achieved after globalization

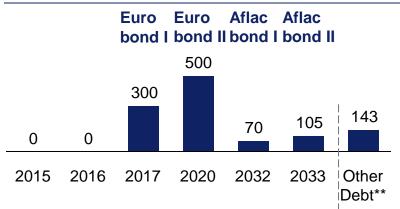


Capital structure provides flexibility for the long-term growth

Solid capital structure







Additional Revolving Credit (2015) (1+1+5) of EUR 450m with 10 core banks as back-up facility

- → Capital-market-oriented capital structure
- → Good liquidity profile and consistent liquidity management
- → EUR 87m dividends (0.77EUR/share) paid September 2015

Strategic flexibility

HELLA has a stable and solid financial fundament which forms the basis for its future strategic plans

- → Prudent financial policy throughout the cycle
- → Financing of long-term growth strategy
- → Acquisition firepower



^{*} As of May, 2015; Euro bond I: 1.15%, Euro bond II: 2.375%, Aflac bonds hedged values **Mostly short-term

Company specific outlook as given in guidance

Sales

- → Growth story on track, mid to high single-digit percentage growth for the full FY 15/16 expected
- → Potential for medium term- market outperformance exists through product pipeline

EBIT

- → FY 15/16 expected to be below previous year due to oneoff charges
- → Master high-tech LED roll-outs

One-off charges (supplier failure)

→ Extraordinary event with effects of up to EUR 50m, predominantly in Q1 – Q2 FY 15/16

EBIT adjusted by one-offs for supplier failure and restructuring

→ Mid to high single-digit percentage growth for the full FY 15/16 targeted





Thanks for your attention

Dr. Kerstin Dodel Investor Relations

Office phone +49 2941 38 - 1349 Facsimile +49 2941 38 - 471349 Mobile phone +49 174 3343454

E-Mail kerstin.dodel@hella.com

Internet www.hella.com