

Capital Markets Day 2020

Exceed Possibilities

Berlin, February 18, 2020

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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.



Capital Markets Day 2020

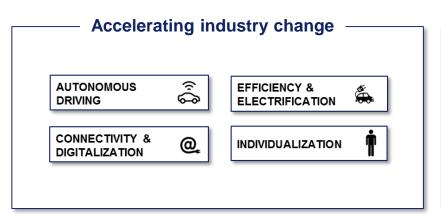
Exceed Possibilities – Berlin, February 18, 2020

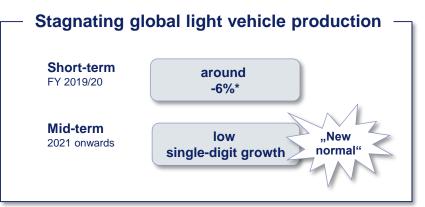
TIME		TOPIC	WHO
10:30	30 min	Registration & Welcome	all
11:00	30 min	HELLA Group: Strategic Outlook	Dr. Rolf Breidenbach CEO
11:30	30 min	HELLA Group: Financial Outlook	Bernard Schäferbarthold CFO
12:00	30 min	Q&A-Session	Dr. Rolf Breidenbach / Bernard Schäferbarthold
12:30	45 min	Lunch	all
13:15	20 min	Lighting: Pioneering technologies and customer solutions	Marcel Bartling Member of the Executive Board Business Division Lighting Product Centers Rear Combination Lamps, Interior & Car Body Lighting
13:35	20 min	Electronics: Key technologies for future mobility	Michael Jaeger Member of the Executive Board Business Division Electronics Product Center Components
13:55	20 min	Q&A-Session	Marcel Bartling / Michael Jaeger
14:15	15 min	Coffee Break	all
14:30	90 min	Market Places	all
	15 min	Market Place 1: Sensing I: Smart Car Access	Fiona Li / Roman Curkin
	15 min	Market Place 2: Sensing II: SHAKE & PM2.5	Marco Döbrich
	15 min	Market Place 3: HD Light Design	Dr. Carsten Wilks / David Duhme
	15 min	Market Place 4: Front of the car	Alexander Kujumdshiev
	15 min	Market Place 5: The Drivery	Timon Rupp
16:00		End of Capital Markets Day 2020	
16:15-17:0	00 optional	Tour through THE DRIVERY	Timon Rupp Managing Director, The Drivery GmbH

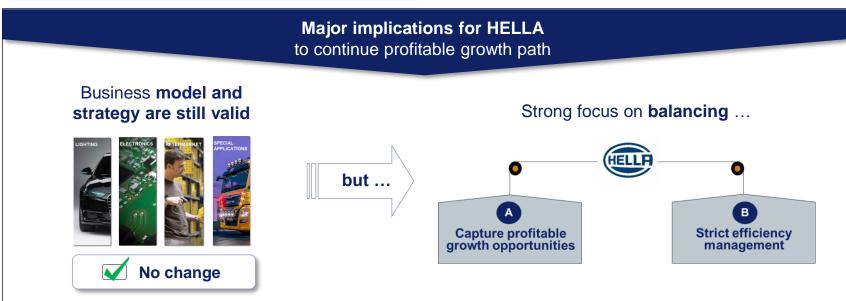


HELLA exploits the current market weakness to further strengthen its competitiveness

Major market developments and implications for HELLA



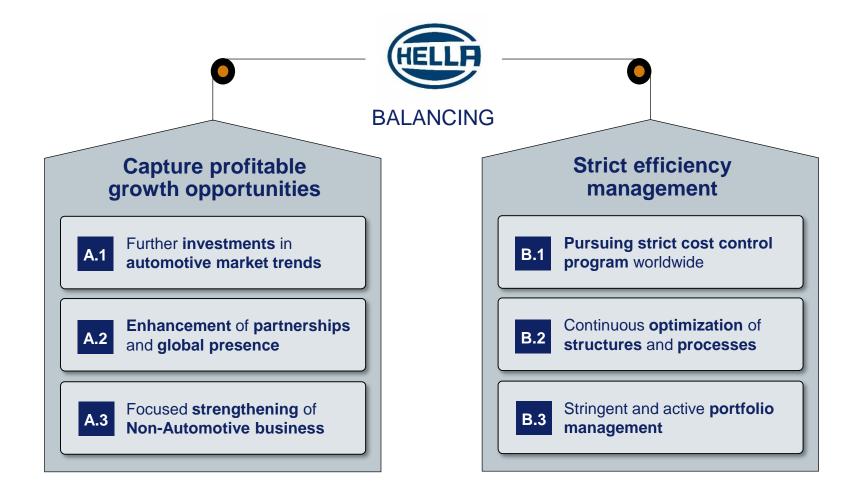




Additional negative corrections possible due to continued high uncertainties, e.g. geopolitical conflicts, impact of Corona virus



HELLA captures attractive growth opportunities while also enforces further cost savings and efficiency improvements Major strategic priorities





HELLA paves the way towards autonomous driving with a comprehensive sensing portfolio focusing on scalability for L1-3

A.1 Investments in market trends — Autonomous Driving

MARKET SITUATION

HELLA POSITION

STRATEGY GOING FORWARD

AUTONOMOUS DRIVING



- New safety requirements are pushing higher penetration of L1-2 vehicles in the upcoming years
- L3 vehicles will have the biggest market share increase from 2025 until 2035
- First fully autonomous vehicles will be on the road from 2030

Autonomous Driving Level Market Penetration 2025*

34%	_ 1
42%	Largest
	segments
21%	
2%	V
1%	
0%	
	42% 21% 2% 1%

 Strong component supplier with comprehensive sensing portfolio focusing on L1-3 and scalability for higher levels



24 GHz sensors

over 30 million sensors manufactured since 2006



77 GHz sensors

7 customer orders acquired since 2018; SOP: April 2020



SHAKE sensor

market entry in 2018/2019; second SOP in 2020

Power steering
 approx. 30 million steering
 electronics produced since 2010



model for front camera based ADAS functions



Sales FY 18/19: ~460 mill EUR

- Drive roll-out and further development of existing sensors, e.g.
 - Enhance performance of 77 GHz corner radar based on cooperation with Oculii
 - Provide "easy to implement" SHAKE solution for mass market
- Expand product portfolio, e.g.
 - intensify Lidar cooperation with AEye; focus on product specification & lead customer acquisition
 - push steering technology for automated driving; launch fail-operational modules in September 2020
- Strengthen camera business,
 e.g. by establishing new
 partnerships and push in China

Growth aspiration until FY 24/25: ~2x



^{*}Source: Strategy Analytics August 2019

HELLA accompanies customers comprehensively on the way to electromobility with solutions for all stages of electrification

A.1 Investments in market trends — Electrification

MARKET SITUATION

HELLA POSITION

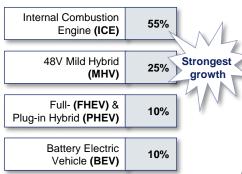
STRATEGY GOING FORWARD

EFFICIENCY & ELECTRIFICATION



- Trend is heavily driven by stricter regulatory emission requirements as well as improved technological maturity and affordability
- Mild-hybrids as "bridging technology" with strongest growth in the upcoming years
- By 2025 up to 250 new EV models

Electrification stages Market Penetration 2025*



 Leading supplier for power and battery electronics covering all stages of electrification, e.g.



Voltage Converters over 3.5 million devices produced annually



Intelligent Battery Sensors (IBS) over 100 million sensors sold since 2003



Battery Management Systems High Voltage (BMS HV) launch in 2016 for e-vehicle and full hybrid fleet of premium OEM



Fuel Control Modules (FCM) over 6 million modules produced annually

 Only 15% of total HELLA Electronics portfolio depending on conventional powertrain concept

Sales FY 18/19: ~320 mill EUR

- Strengthen market position by consistent roll-out of existing products and development of next generations, e.g.
 - Develop 3rd generation of 48V converters and introduce Gen6 of IBS
 - Launch second generation of HV BMS; SOP mid 2020
 - Increase customer portfolio for FCM (Focus on Nafta) and introduce next generation
- Introduce innovative Dual Voltage BMS for mild hybrids; SOP planned for 2024
- Develop additional solutions for mild hybrids and electric vehicles by establishing partnerships with lead customers, e.g PowerPack 48V, On-Board Charger

Growth aspiration until FY 24/25: >3x



^{*}Source: IHS Engine Database August 2019

HELLA strengthens its position as innovation leader for headlamps by launching the next generation of lighting technology

A.1 Investments in market trends – LEDfication / Digital Light

MARKET SITUATION

HELLA POSITION

STRATEGY GOING FORWARD

CONNECTIVITY & DIGITALIZATION



- LED (including HD lighting) will most likely be the last major headlamp technology shift for the near future
- Increasing market penetration across all car segments
- Electronically controlled adaptive lighting functionalities (e.g. glare-free high beam) gain further momentum

Headlamp technologies Penetration 2023*

Halanan	F00/	1
Halogen	58%]
Xenon	4%	
LED Low	12%	Fastest
LED Mid	20%/	growth
LED High	6%	
Innovation	1%	

 Technology/innovation leader for high-end headlamp solutions, e.g.



Matrix-beam technology first launch in 2013, subsequent integration into over 15 further vehicle models; series orders for next generations acquired



SSL | HD technology first series order acquired, SOP mid 2022

- Comprehensive system competence, i.e. including lighting electronics and imaging software for object data
- Strategically well positioned with key customers; premium (52%) as well as volume segment (48%)

Sales LED Headlamps FY 18/19: ~1.2 bill EUR

- Maintain strong position in premium segment mostly by focusing on high-end solutions, e.g.
 - Drive market penetration of matrix-beam technology
 - Focus on one HD technology by pushing roll-out of SSL | HD technology (utilizing "firstto-market" advantages)
- Increase penetration of further customer segments by developing best-cost solutions, e.g.
 - Standardized/modular approach for lighting modules as key enabler
 - "World headlamp" SSL100;
 SOP: summer 2020
 - Enhanced local-for-local strategy, e.g. for China, Americas

Growth aspiration until FY 24/25: >1.5x



^{*}Source: IHS Forward Lighting & ECU Database March 2018

HELLA is focusing on open cooperations with industry partners and startups to develop differentiating customer solutions

A.2 Enhancement of partnerships — Focus Technology

SELECTED PARTNERSHIPS





Integrated solutions for Frontof-the car and Rear-of-the car



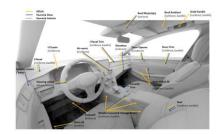
STATUS

- Joint development team at the Drivery/Berlin established (2x5 resources)*
- SmartFACE demonstrator created within six months and showcased at IAA
- Positive customer reactions, e.g. >10 TechShows, >10 OEM meetings; first customer pre-development won
- Possible expansion of collaboration, e.g. integration of electronics components

·faurecia

RATIONALE:

Advanced surface/smart lighting solutions for the vehicle interior

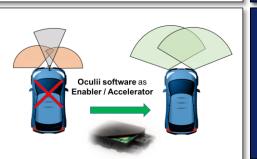


- Joint project team established (2x2 resources)*
- First joint series project won from German premium **OEM:** integration of light guides in interior doors panels
- Pre-development acquired for second premium customer: door panel deco element incl. display and backlighting
- Development of further integrated interior solutions, e.g. surface backlighting illumination



RATIONALE:

Target corner radar application to substitute central radar



- Strategic HELLA investment (~ 5 mill USD) and partnership agreed at the end of December 2019
- Innovative radar signal processing verified by proof of concept; preparation of a joint prototype for improved radar measurement capability by May 2020
- Start of customer demos planned for Q3/2020



^{*}Acting as single interface of collaboration

To further strengthen its position in China, HELLA is intensifying its collaboration with powerful local partners



A.2 Enhancement of partnerships — Focus China



SELECTED PARTNERSHIPS



RATIONALE:

Lighting and electronic solutions, primarily for BAIC



STATUS

- Strong partnership established with BHAP in lighting business since 2014: 2 plants and 1 R&D center in operation
- New electronics joint venture with BHAP commissioned at the end of 2019: manufacturing of control units started (subsequent expansion of production portfolio)



RATIONALE:

Lighting system for the Chinese market, primarily for FAW



- Joint venture with FAW subsidiary Faway since 2012, operating 2 plants and 1 R&D center
- Existing partnership expanded in 2019, e.g. to strengthen product scope and development capabilities, e.g. for rear combination lamps, interior and car body lighting; JV as main supplier nominated for FAW premium brand "Honggi"



RATIONALE:

Collaboration in the area of electromobility



- Establishing a JV in the area of Battery Management Systems High Voltage under negotiation; signing expected by end of February 2020
- Additional cooperation planned in the context of the NEV project of Evergrande, e.g. as supplier of further electronic components and lighting solutions



HELLA follows a clear local-for-local approach to capture growth opportunities in regional core markets



A.2 Enhancement of global presence

HELLA POSITION

STRATEGY GOING FORWARD

CHINA*



Sales FY 18/19: ~800 mill EUR

Plants: 10

Lighting: 7 Electronics: 3

R&D center: 7

Lighting: 6 Electronics: 2

Employees: ~5,500 thereof R&D: ~1.300

FY 24/25: >2x

ELECTRONICS: grow in core business of components as well as in trend areas automated driving (77 GHz radar, camera software) and e-mobility (48V mild and HV-solutions), also by forming partnerships

LIGHTING: drive JV business to penetrate related OEMs; develop local innovations (e.g. 11 pixel ADB) and low-cost modules to better target Chinese OEMs (incl. ramp-up of local R&D capabilities)

INDIA



Sales FY 18/19: ~75 mill EUR

Plants: 3

Lighting: 1 Electronics: 2

R&D center: 5

Lighting: 3 Electronics: 2

Employees: ~1,500 thereof R&D: ~710

Growth aspiration until FY 24/25: >3x

Growth

aspiration

until

ELECTRONICS: grow by selectively adding new products; prioritize products for e-mobility and driver assistance with multiple customer roll-out approach (e.g. explore low-cost version of Intelligent **Battery Sensor)**

2 WHEELER / 3 WHEELER: spin-off of activities to better fulfill business-specific requirements; grow especially by offering motor & controller

AMERICAS



Sales FY 18/19: ~1,400 mill EUR Plants: 7

Lighting: 3 Electronics: 4

R&D center: 3

Liahtina: 1 Electronics: 2

Employees: ~7,800 thereof R&D: ~520

Growth aspiration until FY 24/25: ~1.5x

ELECTRONICS: enhance product portfolio with local OEMs. especially Energy Management, Electrical Power Steering, Thermal Management, Driver Assistance Systems

LIGHTING: increase business with the big 3 OEMs by stronger focus on regional customer/technology roadmaps; use market opportunities related to potential liberalization of ADB functions in the US



^{*} Including JVs

HELLA is also using attractive growth opportunities in Aftermarket and Special Applications to strengthen its business resilience



A.3 Strengthening of Non-Automotive Business

HELLA POSITION

AFTERMARKET

INDEPENDENT AFTERMARKET: strong market position, especially in Europe by

- focusing on core competencies in Lighting & Electronics
- providing premium service. e.g. logistics/availability, product information, technical support, warranty handling



WORKSHOP SOLUTIONS: leading position in Germanspeaking markets by

- sophisticated diagnostic and calibration tools
- comprehensive data knowhow and services

HIGHLIGHT

New Workshop Concept: "CheckPoint"

- IDEA: unique full service offer for independent workshops including diagnostics, calibration tools, services
- TARGET: increase customer retention of independent workshops and empower them to handle increasing complexities, e.g. in ADAS calibration and repair of electric vehicles and hybrids
- NEXT STEPS: pilot phase with 12 workshops finalized; roll-out of new concept as standard offering starting in February 2020

SPECIAL

Leading supplier for various commercial vehicles (e.g., agriculture, construction, bus, mining, and trailer) based on leveraging Automotive core know-how and SOE specific developments in

- Lighting (e.g., continued LEDfication in standard and customer specific products as well as innovative solutions)
- Electronics (e.g., sensors, actuators, and energy mgmt. solutions) as well as selective portfolio extensions (e.g. radar)

Smart Worklight System

- IDEA: intelligent control of individual worklights and LEDs for different working scenarios of agricultural and construction vehicles

CHECKFOINT

- TARGET: enhance safety and comfort for operators, e.g., by avoiding blinding others as well as self-blinding caused by dazzling objects
- NEXT STEPS: pre-development projects with different lead customers ongoing; initial market launch expected for 12/21







Based on strict cost control HELLA ensures short-term profitability as well as additional scope for future-oriented investments

B.1 Strict cost control program

STRINGENT COST MANAGEMENT



- Early implementation of group-wide cost control approach in October 2018
 - installation of stricter approval rules and dedicated release boards
 - across all functions, hierarchies and regions
- Initial focus on reducing travel, IT, service providers, logistics as well as marketing costs

KEY ACHIEVEMENTS FY 2018/2019 Generated savings ~60 mill EUR SG&A ratio reduction (year-on-year) -0.7pp

FLEXIBILIZATION OF HEADCOUNT



- Adjustment and flexibilization of headcount planning according to market development
 - Significant reduction of new hires
 - Flexibilization of production personnel: for direct personnel 100% targeted, for indirect personnel 50% targeted
 - Selective structural headcount reduction programs





HELLA strengthens its competitiveness by consistent automatization and sustainable process improvements

B.2 Continuous optimization of structures and processes

MAJOR **INITIATIVES**

Smart Automatization

RATIONALE:

Increase productivity and quality by automatization of production processes, especially in Lighting



Software Robots

RATIONALE:

Raise efficiency in administration by automating repetitive standard processes



Business Service Organization (BSO)

RATIONALE:

Enhance service level and cost position by bundling and optimizing relevant tasks within designated hubs



STATUS

- More than 400 use cases for Collaborative Robots (CoBot) identified
- Work Package 1 (WP1): focus on CoBot implementation for brownfield production with target headcount reduction of 1,000 (current achievement level: ~300)
- Drive further implementation of CoBots in greenfield areas (WP2) and define smart automation concept for modular assembly lines (WP3)
- Governance organization established to drive process digitalization and efficient use of new technologies, e.g. Robotics Process Automation (RPA) for
 - automatic invoice capture and data entry for major global suppliers
 - automatic creation of intercompany invoices
- Continuous investigation of new application areas in administration processes
- **Business Service Organization** established with 4 centers in Romania (largest hub), India, China and Mexico:
 - Ca. 400 FTEs already delivering services
 - Application of methodology for existing services, e.g. in Finance & Controlling, Purchasing, Human Resources etc.
- Shift of new service tasks (e.g. regional bundling of Foreign Trade administration) to BSO locations, 150-200 additional FTEs from FY 2019/20 onwards



Based on clearly defined criteria and an active management approach, HELLA is continuously reviewing its business portfolio

B.3 Active portfolio management

CRITERIA

LATEST MAJOR DIVESTMENTS

Technology Leadership



Market Leadership (#1-3)



Fulfillment of financial KPIs

Wholesale Business

Disposal of wholesale companies FTZ and Inter-Team to Mekonomen¹ and Hellanor to Aurelius²

Employees: ~2,750

Turnover: ~570 mill EUR

Transaction price: ~395 mill EUR¹

Closing: Sept. 2018¹ / Dec. 2018²



Korean Joint Venture

Transfer of 50% share in Joint Venture HSL Electronics to JV-partner SL

Employees: ~275

Total Turnover: ~100 mill EUR

Transaction price: n/a

Closing: September 2019



Behr Hella Service

Transfer of 50% share in Joint Venture Behr Hella Service to JV-partner MAHLE

Employees: ~60
Total Turnover: ~150 mill EUR
Transaction price: n/a

Transfer: December 2019



Relay Business

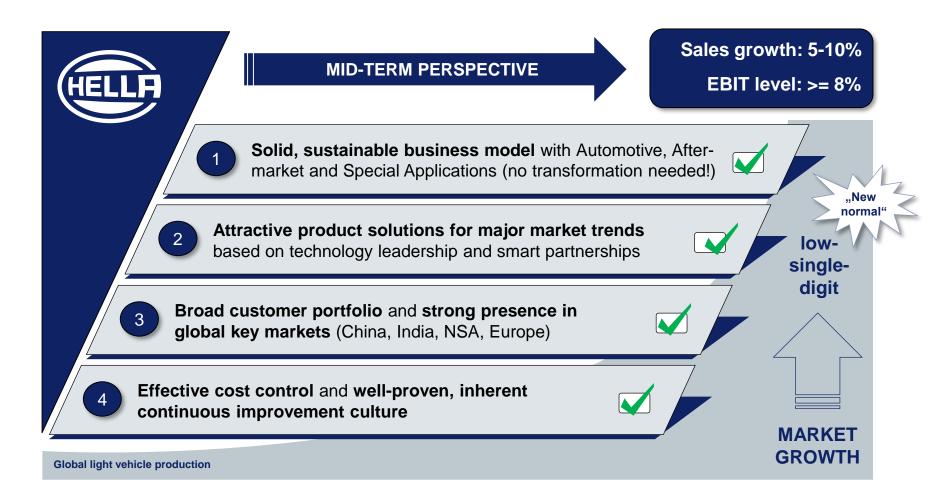
Disposal of relay business to Chinese company Hongfa

Employees: ~280
Turnover: ~ 43 mill EUR
Transaction price: ~10 mill EUR
Closing: December 2019





HELLA has all the prerequisites to continue its success path even in an only moderately growing market scenario ("New normal") Strategic outlook





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Exceed Possibilities – Berlin, February 18, 2020

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10:30	30 min	Registration & Welcome	all
11:00	30 min	HELLA Group: Strategic Outlook	Dr. Rolf Breidenbach CEO
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13:35	20 min	Electronics: Key technologies for future mobility	Michael Jaeger Member of the Executive Board Business Division Electronics Product Center Components
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16:00		End of Capital Markets Day 2020	
16:15-17:0	00 optional	Tour through THE DRIVERY	Timon Rupp Managing Director, The Drivery GmbH



HELLA further strengthens its competitiveness to stay on its profitable growth path

Major market developments and implications for HELLA

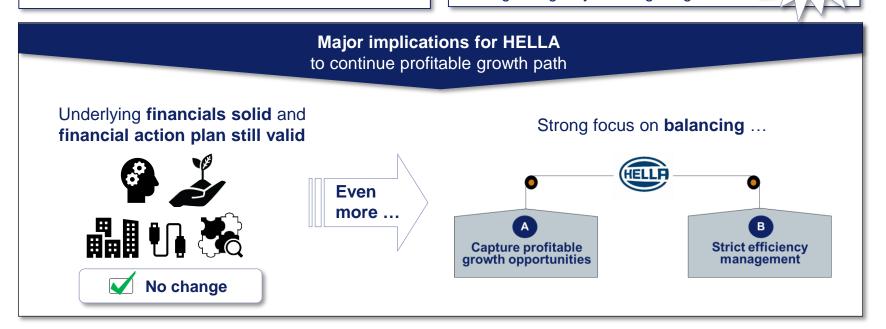
Accelerating industry change

- Accelerating investments in trends especially Efficiency & Electrification and Autonomous Driving
- At the same time budget control at OEMs
- Tighten regulatory framework

Stagnating global light vehicle production

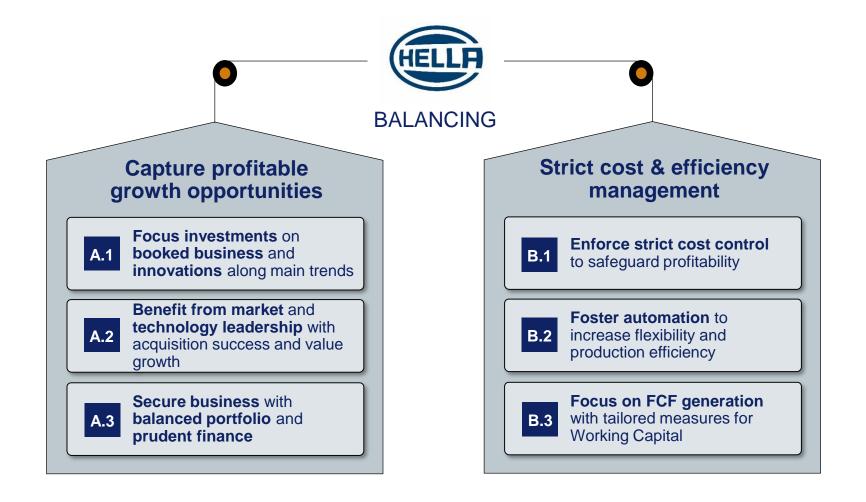
- Impact of Corona virus not foreseeable,
 FY 20/21 growth expected to be impacted by low comparable basis
- Weak economic indicators in core markets
- Mid-term production environment growing only low-single digit

"New normal"





HELLA finds the right balance between cost and efficiency management and investments in future growth and technologies Major strategic priorities





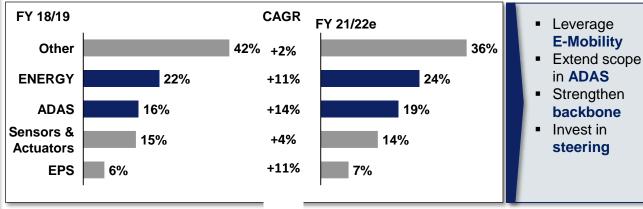
HELLA aligns sustainability and growth targets when allocating R&D and CAPEX

A.1 R&D & CAPEX: Develop booked business and further innovations

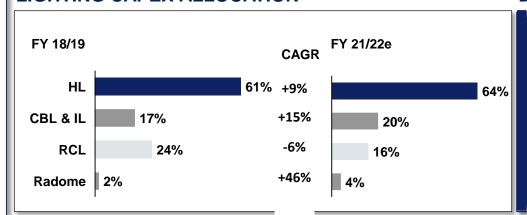
R&D & CAPEX ALLOCATION

- Group R&D Ratio <10% as overall boundary condition, mid- to longterm target around 9.5%
- Majority (~70%) of development expenses allocated to booked business²
- Electronics R&D share expected to rise to nearly 60% in FY 21/22
- Capitalization rate at around 15% according IFRS requirements
- Volume driven
 CAPEX/SALES ratio
 short term >9%
- Mid- to long-term
 CAPEX/SALES ratio
 <8% targeted
- Next to project CAPEX structural investments e.g. in automation

ELECTRONICS R&D ALLOCATION¹



LIGHTING CAPEX ALLOCATION³

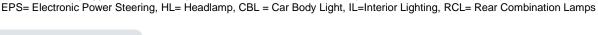


DIRECTIONS

DIRECTIONS

- Invest in global HD module
- Invest in complex IL and CBL solutions
- Focus RCL
- GrowRadomes

¹⁾ Approx. 55% of Automotive R&D FY 18/19 (~580 mill. EUR) 2): remaining share allocated to pre-development, ground research, software, tools 3) Approx. 45% of Group CAPEX FY 18/19 (~550 mill. EUR)





Given its attractive portfolio in selective markets, HELLA is able to grow within the target range of 5-10% in a stabilized market

A.2 Market & technology leadership: Strong portfolio in growth markets

ORGANIC GROWTH

- Strong market position of backbone business (especially Sensors and Actuators)
- Strive for a leading market position in selected growth areas (e.g. Efficiency & Electrification and Automated Driving)
- Headlamp business with competitive edge due to technological leadership position
- Majority of business independent form combustions engine

 IARKET ROWTH	MARKET SEGMENT	ASSESMENT	KEY PRODUCTS	HELLA POTENTIAL ²
	Autonomous Driving	Comprehensive radar portfolio, further invest in competitive and scalable L3 offering	24Ghz radar, 77Ghz radar, Camera software	↑
>10%	Efficiency & Electrification	Strong portfolio, need to address Tier 2 and Tier 1 opportunities	BMS, DC/DC converter , IBS, FCM	↑
	Radome	Already good positioned, further market potential in China and North America	Cover (dome) in front of a radar system	↑
	Automotive Interior and Car Body Lighting	Strong market position to capture selective opportunities in IL Reprioritization of CBL portfolio and focus on Front of the Car opportunities	Interior lights, roof modules, ambient interior lighting Fog lamps, Light indicators, License plate lamps	\rightarrow
5-10%	Steering	Potential for EPS as "fail operational" at premium and volume OEMs	Electric Power Steering	↑
	Automotive sensors	High penetration of existing products in markets, first-to-market innovations as driver	APS, Steering sensors, Position sensors, Medium sensors	\rightarrow
	Actuators	Backbone business to be further strengthened with focus on main contributors	Engine Compartment Actuator, Thermal mgmt., Vacuum pumps	\rightarrow
	Headlamp	Leverage excellent positioning with world wide application using SSL, harvest Xenon	LED headlamps, Halogen headlamps	\rightarrow
	Rear Combination Lamps	Reorganization and active customer collaboration to define selected opportunities	Reflectors, Light curtain, Edge light, Glowing elements	\
	Lighting Electronics	Strong performance to address broader customer needs	Light control modules	↑
<5%	Body Electronics	Changing market need (e.g. BCM), good position to catch opportunities with smart access	Car access, Body control modules	↑
	Independent Aftermarket	European Aftermarket is stagnating, conseque commerce and OE products as success factor		\rightarrow
Special Applications		Strong market position with lighting products in innovative lighting business as development	↑	

APS= Accelerator Pedal Sensor, BMS= Battery Management System, FCM= Fuel Control Modules, IBS= Intelligent Battery Sensor 1) CAGR 18/19 24/25 2) HELLA growth potential vs. market



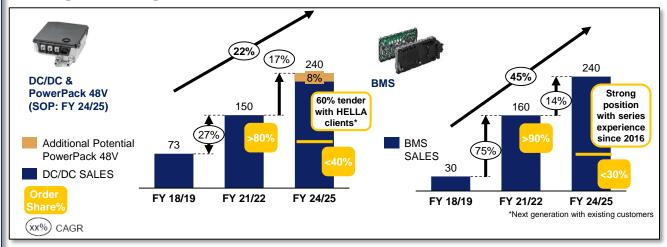
Market and technology leadership ensures acquisition success and drives order intake in selected growth areas

A.2 Strategic business fields with order-backed sales growth

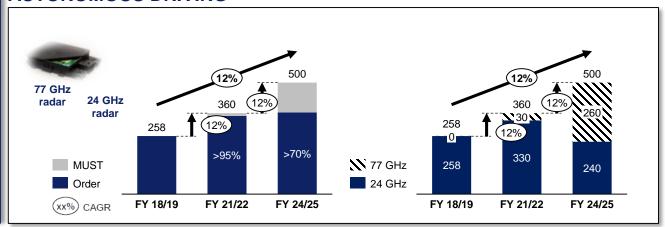
ORDER SITUATION EXAMPLE

- DC/DC & BMS strongly benefit from Hybrid and High Voltage trend in the coming years
- Mid-term growth strongly backed by orders, for FY 24/25 majority of tender still outstanding, thereof 60% with existing clients
- Shift from DC/DC to PowerPack 48V starting in FY 24/25 with sustainable growth and further ramp-up in the years beyond
- Market leader and with series production experience for complex BMS with excellent position to win business
- Radar growth driven by 24 GHz until FY 21/22; Growth beyond FY 21/22 coming from 77 GHz

ENERGY MANAGEMENT



AUTONOMOUS DRIVING





HELLA strives for prudent financing to secure business but also seeks shareholder participation in business success

A.3 Cash flow allocated to finance organic growth & bolt-on acquisitions

FINANCING PREMISES

- Financing stability with low leverage target:
 NET DEBT/ EBITDA <1x
- Fully financed with long-term horizon
- Keep quality rating

USE OFCASH

- Continuity in dividend payments envisaged
- Self-financed organic growth
- Possibility of selected acquisitions and to entering into partnerships



 Successful refinancing of EUR 500 mill. bond

Bond

(0.5%)

Bond

(1.0%)

Aflac**

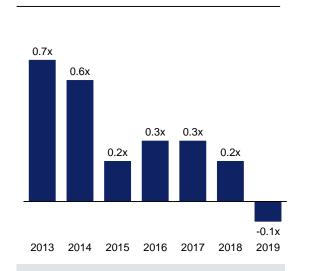
bond I

Aflac

bond II

- Annual interest savings approx. EUR 9 mill. with lower coupons
- Flexibility with undrawn revolving Credit (2022) of EUR 450m, refinanced with 10 core banks as back-up facility





- Adhered to NET DEBT/EBITDA boundary in recent past
- Last years with continuous reduction of NET DEBT/EBITA ratio
- Low leverage secures room for maneuver

^{*} Mostly long term debt; starting with Aug 2019 lease liabilities according to IFRS 16 ** Aflac bonds hedged values; Abbreviation for "American Family Life Insurance Company"



HELLA enforces consistent cost savings and structural improvements as basis for further investment in new technologies

B.1 Cost control and initiatives enforced 2018

COST CONTROL PREMISES

- Cost control measures monitored continuously and adopted depending on actual and outlook on market volumes
- Main levers are flexibilization of headcount, cost control (SG&A), structural improvements (implemented in time of limited growth) and the reduction of material costs
- Normalization of SG&A ratio around 9%
- Structural optimizations and purchasing program leading to improvement of Gross Profit Margin in coming years

LEVER INITIATIVES IMPACT OUTLOOK SG&A Savings of approx. 0.3ppt in Strict continuation of cost Stringent cost control **EXCELLENCE** FY 18/19 control in foreseeable future focusing particularly on Reduce overhead and headcount, travel, IT, service • Further approx. **0.3ppt** margin Mid-long term release and external costs provider, logistics as well as improvement H1 FY 19/20 continuous investments in IT marketing costs globally system infrastructure Around 400 FTE (10% of CF) Further transfer of functions Structural improvements in scope, saving 0.2ppt in and continuous improvement establishing a business service FY18/19 (mostly labor with reduced complexity and organization to bundle automation with high potential arbitrage) corporate functions in designated hubs in best cost • Approx. **0.1ppt** margin countries improvement H1 FY 19/20 Reduction of supplier base Freight efficiency program Freight and brokerage cost continued from FY 19/20 to by 69% with savings 0.1ppt in reduction with consolidated FY 18/19 further increase efficiency, tendering and freight efficiency increase transparency, and • Approx. 0.2ppt margin roadmap harmonize requirements improvement H1 FY 19/20

FLEXIBILIZATION OF HEADCOUNT

Adjustment & flexibilization of head-count with regard to production volumes

Use headcount **planning** and **flexibilizatio**n

instruments on a month-bymonth basis, **depending on further market development**

Headcount reduction (reporting staff) YOY¹

Deep

Dive

- o **FTEs** by **1,650**
- by 2,800

Further adaption depending on market development

Relaunch of tender

RISING PURCHASING PERFORMANCE

Next to commercial negotiation and design means on top stretch regarding material costs

Holistic material cost transformation:

- Fact based commercial negotiations (PPI & Bonus)
- o Re-Design to Cost (DtC)
- Initiatives per BD e.g."7 Levers" in Lighting

Deep co

Dive

- Total savings in automotive purchasing of around 50 mill.
 EUR in FY 18/19
- Approx. 30 mill. EUR additional price increases to be compensated in FY19/20 and targeted
- Further significant potential, period of favorable market conditions (falling prices, no shortages) used to generate further savings
- Compared to FY 19/20 higher savings in FY 20/21 targeted



¹⁾ per November 2019

Headcount program as key pillar to secure lean and flexible structures – continuation reflects market development

Nov

HEADCOUNT

B.1 Deep Dive: World-wide headcount program with proven impact

Nov

HEADCOUNT PROGRAM

- Program aims at different layers depending on the type of personnel, their function and region
- 100% flexibilization of direct production personnel targeted
- Most possible flexibilization of indirect production personnel maintaining stability of plants
- Sales & Admin optimized as part of the general SG&A excellence (automation & shared services)
- Consequent management of R&D ratio (e.g. best use of global R&D network)

excl. TEMPS	18/19	19/20	YoY	AC	HIEVEMENTS	C	OUTLOOK
PRODUCTION Direct	12,317	11,342	-8.6%	✓	In relation to sales decline of 2.3% over- proportional reduction		 Reduction of working time accounts and temporary staff Flexibilization of direct OtD via
PRODUCTION Indirect	12,943	12,739	-1.6%	✓	Stability of plants and production must be secured	toolbox according n	initiative • Leverage HR
RESEARCH & DEVELOPMENT	7,706	7,828	1.6%	✓	Investments in R&D specialist in best cost countries		work, severance programs, early retirement) Further shifts of function to Shared Service
SALES & ADMIN	6,408	5,938	-7.3%	✓	BSO established with 4 centers		Center Only selected hiring for administrative and sales functions
TOTAL	39,498	37,847	-4.2%	✓			 Digitalization of administrative processes, e.g. payroll, learning administration

DEI TA

Improvement of purchasing performance is key to counter increasing material costs and to raise economic efficiency

B.1 Deep Dive: Strengthen Purchase Performance in Lighting

PURCHASING PERFORMANCE IMPROVEMENT

- Set of measures to holistically change the need for material and thereby reduce material costs
 - Commercial negotiations and re-design to costs (Re-DtC) as "standard" means
 - Purchasing Projects on Business Division level, e.g. "7 Levers" for Lighting
- Purchasing department as well as product group management, production, R&D department and top management involved
- Material cost savings
 Lighting expected to
 double in FY 19/20,
 further savings in FY
 20/21 targeted

Purchasing Improvement Lighting

Commercial negotiation incl. bonus payments
Re-DtC

Standard "Purchasing Toolkit"

"7 LEVERS"

Elimination of "over-specification"	Detection & challenging of "over-specification" of production process (e.g. packaging, testing, cleanliness) and products (e.g. tolerances)	Better fit specifications of heatsinks and Bare PCBs
HELLA Distribution	Systematic optimization of HELLA set part- and material management	Global consolidation of supply
Inbound Logistics	Systematic review Incoterms with supply base to optimize inbound logistic costs	Introduction of Area Forwarder Hubs
Localization	Systematic localization push and use of "B"-suppliers	Localization e.g. in China & Mexico
LEAN Approach	Systematic open book on site assessment (cycle time, scrap, weights, people, etc.)	LEAN workshops at selected suppliers
Material Optimization	Systematic review of mono- and polymer material substitution opportunities	Substitution of glass to silicon lenses
Market-tests (RFQ)	Systematic market-test (RFQ) assessment for all materials above a defined annual spend	Re-sourcing in all material groups

Further strengthening of purchasing performance

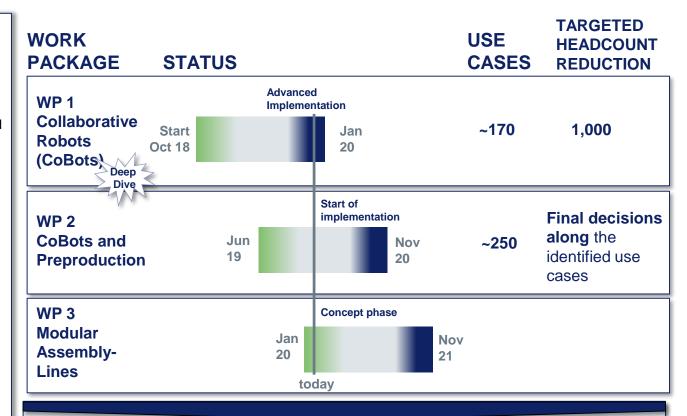


HELLA fosters automation with three main workpackages to improve flexibility and profitability of production

B.2 Early launch of Smart Automation program in lighting business

SMART AUTOMATION OVERVIEW

- With increased quality of available CoBots, and other Automation means ROI < 24 months is guaranteed
- Currently three Workpackages (WP) defined, implemented sequentially in phases
- Over 400 use cases already identified
- WP 1 with focus on brownfield production in advanced implementation
- WP 2 and 3 with further significant potential
- Global program with world-wide alignment of all plants



- WorkPackage 1 is focusing on final assembly
- WorkPackage 2 is focusing on assembly and preproduction
- WorkPackage 3 is focusing on full line concept including partially automated logictics



HELLA defined WP 1 with positive EBIT impact of approx. 6 mill. EUR in FY 19/20 – EBIT effect to triple incl. spill-over effects

B.2 WP 1 expected to support profitability in FY 19/20 by ~0.1ppt1

SMART AUTOMATION WORK PACKAGE 1

- CoBots CAPEX of approximately
 22 mill. EUR in FY
 19/20
- Payback time of around 2 years
- Maintenance cost and incremental manufacturing engineering costs for CoBots occur
- Headcount savings and thereby savings of direct labor costs realizable with less operators
- Less non-quality
 expense due to
 automated testing
 process give additional
 cost savings potential

ESTIMATION OF P&L EFFECTS APPROXIMATION; in mill. EUR FY 19/20 FY 20/21 13% 26%

ГЕМ	FY 19/20	FY 20/21	13%
Effective Costs	4.0	8.0	
Depreciation	1.0	3.0	
 Maintenance & Incremental² 	3.0	5.0	55%
Effective Savings	10.0	18.0	Germany China Europe Mexico
EBIT Impact	6.0	10.0 ³	_

- WP 1 headcount reduction via mostly temporary workers and natural fluctuation
- More than 90 use cases of WP1 already implemented
- Per January 2020 over 350 headcount reduced, 800 in process in FY 19/20

¹⁾ From mid point of FY 19/20 guidance 2) Manufacturing engineering for CoBots mainly in FY 19/20 3) excluding spill over effects from FY 19/20



Generation of Free Cash Flow crucial with tailored measures for Working Capital – program on track despite headwinds

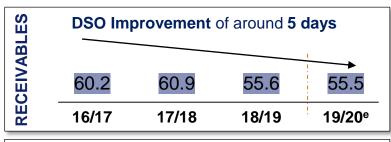
3ppt reduction to be achieved until end of FY 19/20

CASH CONVERTION **PROGRAM**

- Since initiation of program committed improvements on track with purely operational measures
- Improvement on DPO and DSO as communicated
- Inventory market driven at high level
- Until H1 FY 19/20 improvement of WC/Sales by approx. 2.3ppt1
- Further reduction beyond FY 19/20 possible with improvements on inventory and DPO

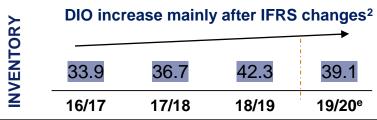
ACHIEVEMENTS

SINCE INCEPTION UNTIL FY19/20e

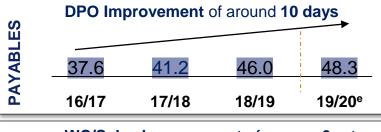




Market environment will put a challenge on further improving DSO while at the same time pushing growth



- Regional activities to reduce operative inventory levels
- Roll out of production planning project



- Further potentials for "re-negotiation" to be identified
- Consideration of further DPO improvement means

Actual improvements only

WC/Sales improvement of approx. 3ppt SALES WC/

15.5

Continuous work to further bring down ratio

first milestone

¹⁾ Normalized for seasonal effects, project stock and bank builts 2) excluding IFRS 15, flat development since FY 16/17



12.7

With strict savings & tailored investments, HELLA will be successful in the "new normal" market environment

Financial outlook



Capture profitable growth opportunities

- A.1

 HELLA R&D and CAPEX allocation strengthens anchor business and allocates investments to growth and development areas
- A.2 HELLA generates organic sales growth beyond LVP with volume and value growth based on strong market & technology position
- A.3 HELLA Balance Sheet ensures strong backbone to finance organic and inorganic growth

Strict cost & efficiency management

- B.1

 HELLA fosters a stringent cost control programs to safeguard profitability and free up means for future investments
- B.2 HELLA focus on automation and standardization to increase profitability and flexibility
- B.3 HELLA continuously focus on improving Free Cash Flow generation
- In the "New Normal" market environment HELLA is able to generate sales growth between 5-10%
- Profitablity ratios of 8% and beyond are possible given successful savings and organic growth in the targeted range



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The lighting business of HELLA is well positioned and tailored towards major automotive market trends

HELLA Lighting – Overview

HELLA LIGHTING

PORTFOLIO – MAJOR PRODUCTS FOR MARKET TRENDS

AUTONOMOUS













^{*} Without JVs

HELLA's leading position in the automotive lighting market is based on four major success factors

Key success factors





By launching a "world headlamp" HELLA is able to reduce complexities and realize portfolio efficiencies

F

Modular Portfolio – World Headlamp: SSL 100

MOTIVATION

Develop a global headlamp solution with new strategic portfolio opportunities

Market situation



Standard module headlamp for global vehicle with multiple optical systems, modules and individual module development

Innovation



World wide module headlamp for global vehicle with single optical system, one module and single module development

SOLUTION

World Headlamp: SSL 100

UNIQUE SELLING PROPOSITION



- Modular and standardized headlamp module allowing for highest possible integration across various vehicle models
- Can be offered to customers in a scalable manner on individual customer requirements
- Standardization opportunities to improve product and project maturity
- Takes up significantly less space in vehicle architecture compared to Matrix LEDs
- Reduces product complexity and costs on for HELLA and end-customers

STATUS & NEXT STEPS

- Miniaturized matrix module with advanced, large-scale integrated optical systems
- 102 switchable CSP LEDs in 4 rows as building blocks for a flexible beam solution allowing for highest performance
- "Free-Form" pixel geometry to ensure high degree of
- Start of Production in June 2020



By promoting advanced lighting solutions HELLA offers unique customer experience and strengthens its technology leadership

Technology Leadership - Digital Light: SSL | HD

MOTIVATION

Offer an exceptional customer experience with distinct key technologies and unique functionalities



First to market launch to create unique customer experience and significant value-add



Stregthen technology leadership and HELLA's perception as technology player



Address the digitalization trend of light functions with digital lighting innovations



Enable new business model opportunities with possible pay per use software functions

SOLUTION

Digital Light: SSL | HD



. . .



UNIQUE SELLING PROPOSITION

- Integrated, "intelligent", pixelated LED as SSL | HD light sources with over 30.000 individually controllable pixels leading to increased precision
- Full-field-of-view high definition adaptive driving beam headlamp lighting with ultra-compact light source and flexible module design
- Unique and attractive functionalities for individual customer use cases
 - optical lane assistant to support safe and stable vehicle guidance
 - projection of protection areas for e.g. cyclists or pedestrians
 - o coming and leaving-home animations

STATUS & NEXT STEPS

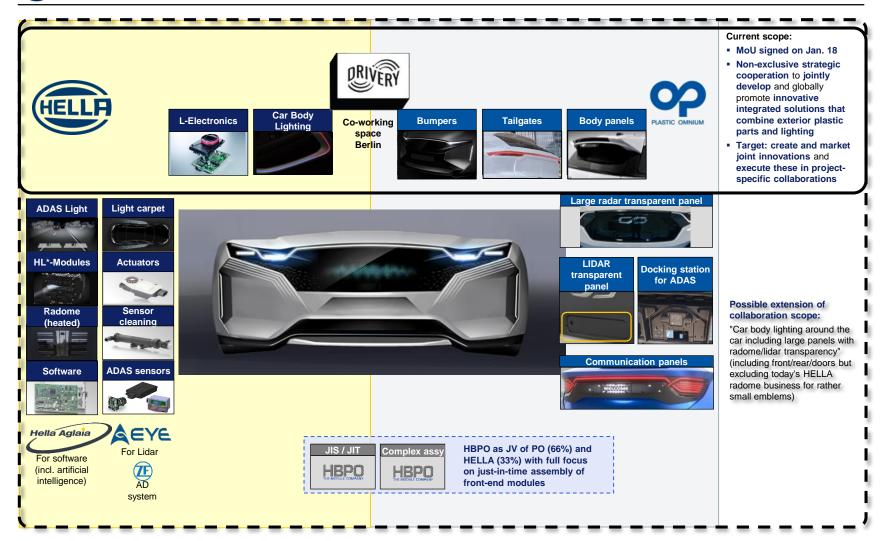
- First series order aguired; SOP mid 2022
- Further roll-out by utilizing "first-to-market" advantages
- Possible roll-out of best cost module for volume segment



Based on the open cooperation with Plastic Omnium, HELLA works on comprehensive front-of-the-car solutions



Strong Partnerships – Plastic Omnium



Together with Faurecia, HELLA offers advanced and innovative solutions for the vehicle interior



Strong Partnerships – Faurecia

MARKET SITUATION

- Increasing importance of advanced ambient lighting and integrated surfaces over the next years
- Potential shift in awarding process for complete Interiors as Package towards one "single point supplier"

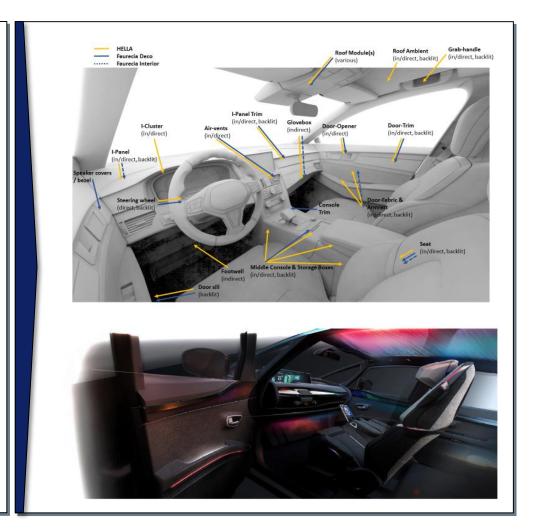
APPROACH





faurecia

- Joint target to disrupt automotive interior market through advanced surface/smart lighting solutions
- Complementing product offerings of HELLA and Faurecia with existing customer and market access
- Streamlined logistics, and processes to realize value chain opportunities and cost savings
- Use-case driven approach
- Balanced non-exclusive relationship





By rolling-out a smart automation approach, HELLA further strengthens its quality and competitiveness in lighting

Industrialization and operational excellence – Smart Automation

Measures



Identification of global use cases that show optimization potential in the production process and roll-out in three work
packages (WP)





WP2 – Collaborative Robots and Preproduction Focus: BROWNFIELD/ GREENFIELD



WP3 - Modular automated Assembly-Line/ Standardization Focus: GREENFIELD (less BROWNFIELD: Main Focus Preproduction)

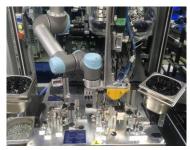
- Implementation of tailored robotic solutions up to a modular automated assembly-line
- Strict measurement of potential impact of direct labor cost and non-quality expense savings
- Stringent Design for Manufacturing approach to consider future technology production

Use cases

Exemplary WP1 implemented use cases

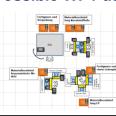


CoBot implementation at lighting development and production plant in Ljubljana, Slovenia.



CoBot used in headlamp manufacturing process in Mohelnice, Czech Republic.

Possible WP1 use cases



Current state:

Manual assembly and testing process with manual transfer between working station, requiring several operators in several shifts.

vs.



Planned state:

Implemented automatic assembly, testing and transfer solution with no operators and significantly increased production speed.



HELLA's lighting business is well positioned to capture further growth opportunities

HELLA Lighting – Key Takeaways

- HELLA focuses on an exceptional customer experience and promotes unique selling propositions with distinct and innovative product solutions
- HELLA expands its reach by balancing out the lighting product portfolio with a modularization and standardization approach
- HELLA strengthens its competitiveness by further increasing operational excellence through increased smart automation
- 4 HELLA offers complex system solutions together with its partners as a "one system supplier" solution





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HELLA's electronics provides large opportunities thanks to a broad portfolio for major market trends and basic requirements

HELLA Electronics – Overview

HELLA ELECTRONIS

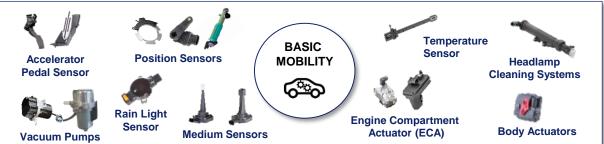
PORTFOLIO – MAJOR PRODUCTS FOR MARKET TRENDS









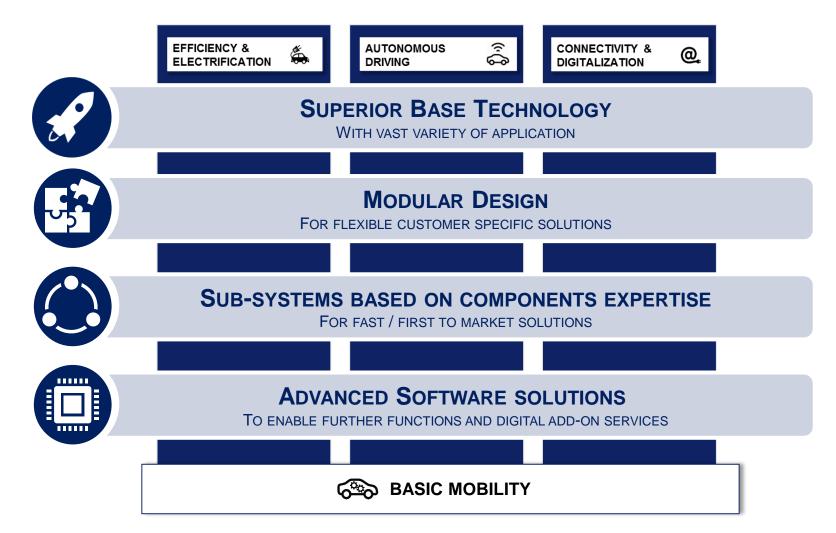




^{*} Without JVs

HELLA's strong market position in electronics is based on four central success factors

Key success factors





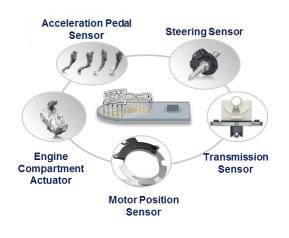
CIPOS as strong base technology for basic mobility as well as electrification and autonomous driving

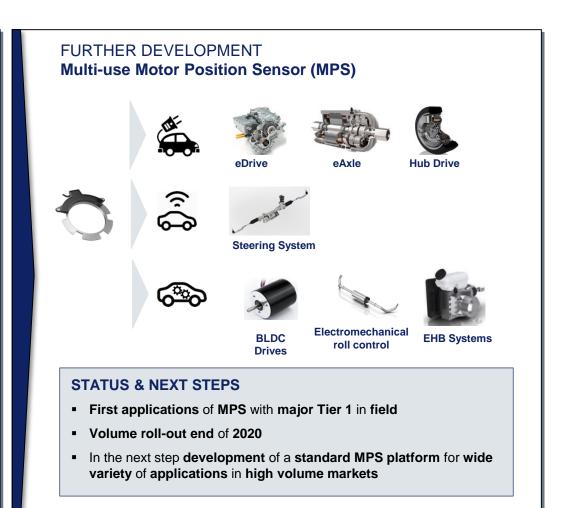
Basic mobility: Multi-use Motor Position Sensor

BASIS

Innovative Contactless Inductive Position Sensor (CIPOS)

- Contactless position detection by using electromagnetic alternating fields
- Temperature-independent, mechanical and EMC robustness
- Over 800 million sensors in field







HELLA's SHAKE sensor enables various new customer-specific functionalities and add-on cloud services



Autonomous Driving: Further use cases for SHAKE Sensor

BASIS

Innovative Structural Health and **Knock Emission (SHAKE) Sensor**



Recognizes vibrations on its contact surface via piezoelectric elements

- Type of wave
- Frequency
- Energy
- Duration (transient waves)
- Stationarity (forced excitation)

Enables various customer-specific functionalities, e.g.

First SOP implemented in Porsche 911 for wetness detection



Second SOP input for highway pilot for premium customer in 2020



FURTHER DEVELOPMENT Further use cases and add-on cloud services



- Multi-use sensor with modular approach enables various use cases
- Enables functionalities for safety, comfort and autonomous driving



STATUS & NEXT STEPS

- Volume roll-out road condition sensing as of 2021
- **Development of enhanced road condition functionalities**
- Roll out of further use cases



HELLA is launching an innovative 77 GHz radar platform based on its leading position in 24 GHz radar sensing



Autonomous Driving: 77 GHz Radar Platform

BASIS

Leading position in 24 GHz radar sensing

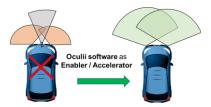
- Pioneer in the field of 24 GHz automotive radars for rear applications; over 30 million sensors manufactured since 2006
- Implementation of driver assistance systems (e.g. blind spot detection, Lane change assistant, rear cross traffic alert) in all automotive segments
- World-wide homologation as perfect fit for global platforms



FURTHER DEVELOPMENT 77 GHz Radar Platform



- Scalable platform for the flexible implementation of NCAP and AD **functionalities**
- High performance and range
- Compact design and convenient vehicle integration for 360° environment perception



OUTLOOK: Development partnership with Oculii to enhance performance

STATUS & NEXT STEPS

- Preparation and implementation of the upcoming production ramp-ups for truck and passenger business, SOP April 2020
- Enhance performance of 77 GHz radar and substitute central radar for NCAP applications with Oculii (market introduction planned for 2023)



HELLA develops innovative sub-system solutions for the fast growing mild hybrid market



Electrification: Dual Voltage Battery Management System

BASIS

Strong position in components business for power and battery electronics



Voltage Converters enable bi-directional energy transfer at high and intermediate power levels with efficiency rate > 97%



High Voltage Battery Management Systems ensure the safe and reliable functioning of lithium-ion batteries





Partnership network e.g. for battery and battery cell production

FURTHER DEVELOPMENT Dual Voltage Battery Management System



- Enables savings of 5 to 6 grams CO2/km
- Allows efficient conversion of vehicles with internal combustion engines to a mild hybrid
- Combines 12 V and 48 V battery, as well as voltage converter within a single product
- Requires only the existing package space of a conventional lead-acid battery

STATUS & NEXT STEPS

- Successful simulation and testing verification for CO2 saving potentials
- Further specification in the context of customer-specific development projects, e.g. focusing on
 - design of the air-based cooling concept with new prototype
 - redundant design for requirements of automated driving
- Market introduction expected for 2024

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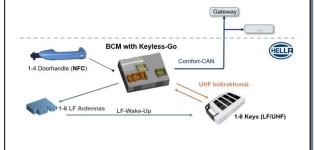
HELLA develops safe and comfortable vehicle access systems based on Ultra Wide Band

Q Digitalization: Smart Car Access

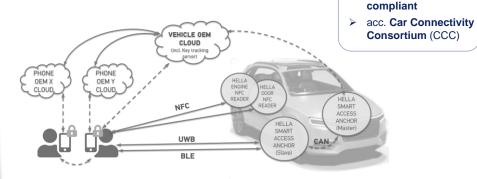
BASIS

High expertise regarding radio keys and passive access systems

- More than 20 million radio keys and 5 million systems produced annually
- One of the global market leaders in the field of car access based on
 - system integration competence
 - high safety level and protection against misuse and unauthorized vehicle access
- Access solution based on LF/UHF and NFC



FURTHER DEVELOPMENT Smart Car Access



COMFORT:

complete hands-free activation via Smartphone; key sharing and personalized features

SECURITY:

precise UWB localization to complete protection against relay attacks (Thatcham compliant)

SAFETY:

monitors safetyrelevant functions, e.g. autonomous parking; no unintended use

IOS and Android

STATUS & NEXT STEPS

- Presentation at IAA 2019 and at CES 2020 together with an Asian electronics company
- Currently in development with European lead customer
- Market launch expected in 2022



The electronics business is well on track and profiting already today from major automotive market trends

HELLA Electronics – Key Takeaways

- The electronics business is continuing to be a major growth driver for HELLA
- The business benefits from a strong technological base that addresses both core requirements and central market trends
- To fully capture growth chances, the electronics business is subject to constant development towards focused subsystems and digitalized possibilities





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