SHAPING THE FUTURE OF AUTOMATION

komax



Investor Day, 23 October 2020



AGENDA

- 1 Current situation outlook 2020
- 2 Insight into the new building
- 3 SMART FACTORY by KOMAX
- 4 E-mobility
- 5 Higher level of automation
- 6 Focused strategy
- 7 Questions



Situation beginning of February

	AMERICAS	Mexico	Honduras	Nicaragua	Brazil	Argentina	Paraguay
	overall situation	100% harness plants are open					
	EMEA	Morocco	Tunisia	Egypt	SRB/ALB	Romania	Ukraine
	overall situation	100% harness plants are open					
	ASIA	India	China	Thailand	Vietnam	Philippines	Japan
	overall situation	100% harness plants are open	20% harness plants are open	100% harness plants are open	100% harness plants are open	100% harness plants are open	100% harness plants are open



Situation beginning of April

	AMERICAS	Mexico	Honduras	Nicaragua	Brazil	Argentina	Paraguay
	overall situation	35% harness plants are open	0% harness plants are open	100% harness plants are open	5% harness plants are open	0% harness plants are open	0% harness plants are open
	EMEA	Morocco	Tunisia	Egypt	SRB/ALB	Romania	Ukraine
	overall situation	5% harness plants are open	0% harness plants are open	50% harness plants are open	30% harness plants are open	10% harness plants are open	5% harness plants are open
	ASIA	India	China	Thailand	Vietnam	Philippines	Japan
	overall situation	0% harness plants are open	100% harness plants are open	90% harness plants are open	100% harness plants are open	10% harness plants are open	100% harness plants are open



Situation beginning of May

	AMERICAS	Mexico	Honduras	Nicaragua	Brazil	Argentina	Paraguay
	overall situation	15% harness plants are open	5% harness plants are open	5% harness plants are open	40% harness plants are open	50% harness plants are open	40% harness plants are open
	EMEA	Morocco	Tunisia	Egypt	SRB/ALB	Romania	Ukraine
	overall situation	35% harness plants are open	40% harness plants are open	80% harness plants are open	20% harness plants are open	30% harness plants are open	30% harness plants are open
	ASIA	India	China	Thailand	Vietnam	Philippines	Japan
	overall situation	0% harness plants are open	100% harness plants are open	90% harness plants are open	70% harness plants are open	50% harness plants are open	65% harness plants are open

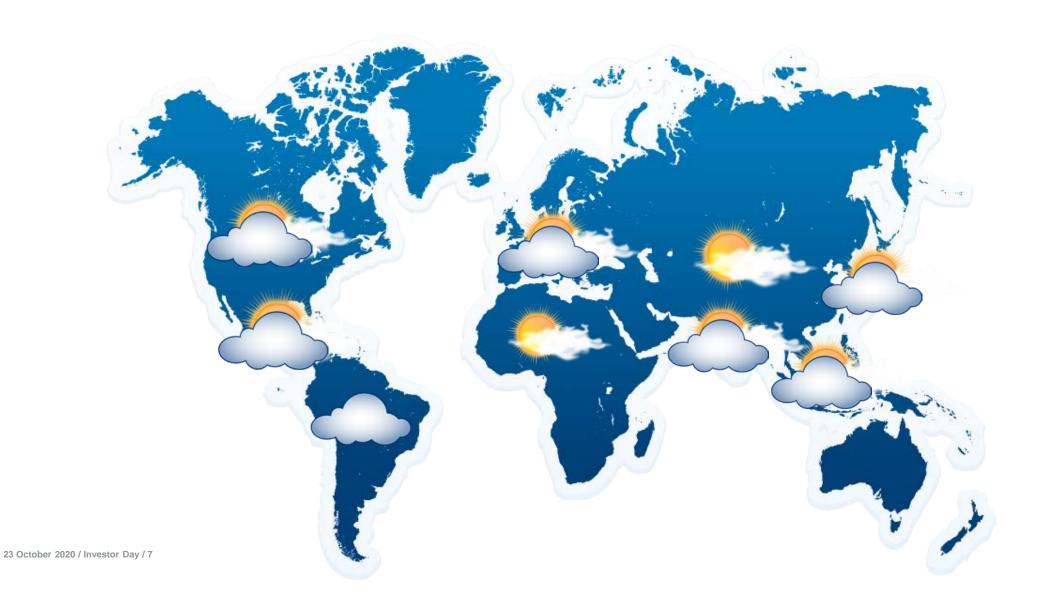


Situation beginning of June

	AMERICAS	Mexico	Honduras	Nicaragua	Brazil	Argentina	Paraguay
	overall situation	95% harness plants are open	10% harness plants are open	50% harness plants are open	75% harness plants are open	100% harness plants are open	100% harness plants are open
	EMEA	Morocco	Tunisia	Egypt	SRB/ALB	Romania	Ukraine
	overall situation	95% harness plants are open	95% harness plants are open	100% harness plants are open	90% harness plants are open	90% harness plants are open	95% harness plants are open
	ASIA	India	China	Thailand	Vietnam	Philippines	Japan
	overall situation	100% harness plants are open	100% harness plants are open	100% harness plants are open	100% harness plants are open	70% harness plants are open	100% harness plants are open

Current market environment



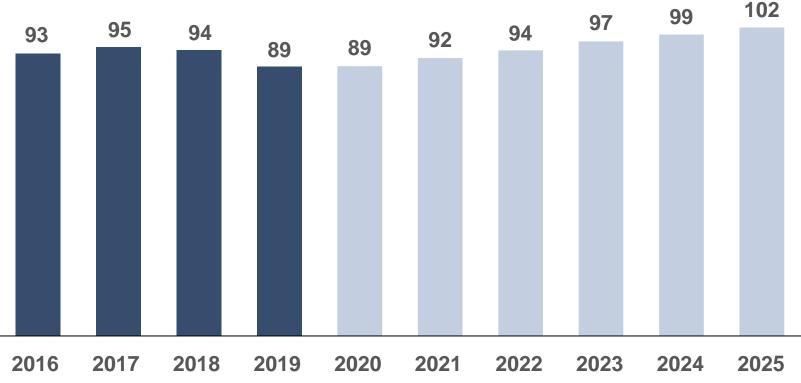


Global vehicle production

komax

Analysis from November 2019

Production of passenger cars and light commercial vehicles in million vehicles



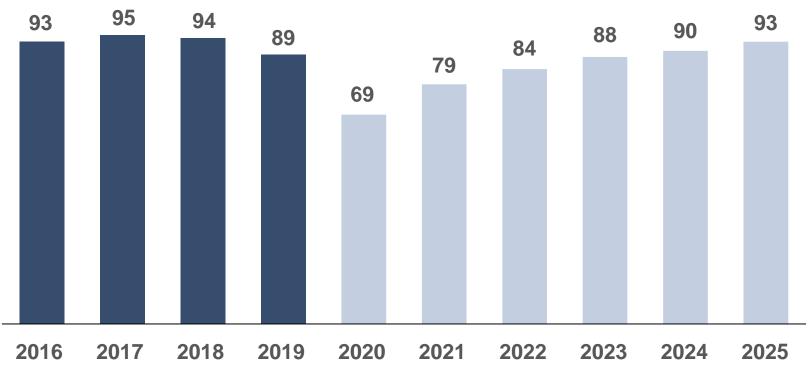
Source: IHS Markit, November 2019

Global vehicle production

komax

Analysis from July 2020

Production of passenger cars and light commercial vehicles in million vehicles



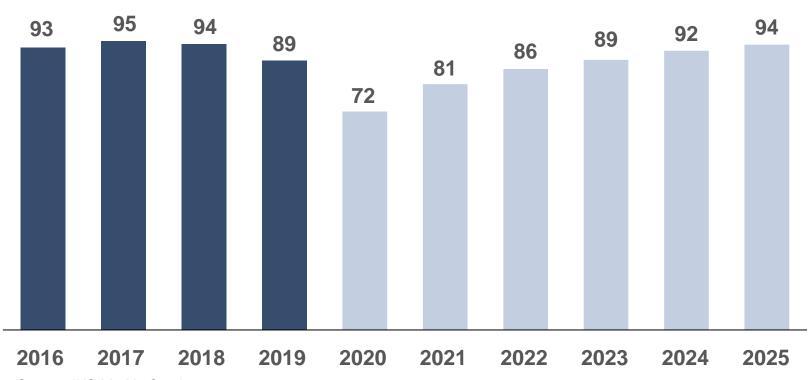
Source: IHS Markit, July 2020

Global vehicle production

komax

Analysis from October 2020

Production of passenger cars and light commercial vehicles in million vehicles



Source: IHS Markit, October 2020



Multifaceted package of measures Structural adjustments and short-term cost-cutting measures

Swift and rigorous implementation of numerous measures to cut costs in the short term

- Introduction of short-time working in various countries
- Reduction of external services (e.g. research and development)
- Postponement of projects
- Recruitment freeze
- Travel freeze
- Massive reduction in marketing expenditure



Multifaceted package of measures Structural adjustments and sustainable cost-cutting measures

Adjustment of headcount to current market situation

- All production sites: reduction of temporary and fixed-term staff, also some redundancies
- Reduction in headcount in 2020 to date: 150 employees or around 7% of workforce

Consolidation of locations

Reduction in number of production sites in North America (previously: US and Mexico; new: Mexico)

Risk minimization

Reduction of customer-specific activities in the companies Exmore (Belgium), Komax AG (Switzerland),
 Komax SLE (Germany), and Laselec (France)

Outlook 2020



- The market situation for Komax has improved every month since mid-year. Therefore, we expect to achieve a better result in the second half of 2020 than in the first six months of the year.
- We believe it will at least break even in terms of EBIT in the second half of 2020 (first half of 2020: CHF –4.7 million) and achieve revenues of at least CHF 300 million for the 2020 financial year as a whole (first half of 2020: CHF 145.2 million).
- This is all assuming that the coronavirus pandemic does not affect delivery capacity in the next few weeks.

Step-by-step recovery



Further cost-cutting measures - mainly in Switzerland

- We are confident that the market situation will continue to improve in 2021 but not yet to pre-crisis level.
- Volume business in particular needs more time to recover.

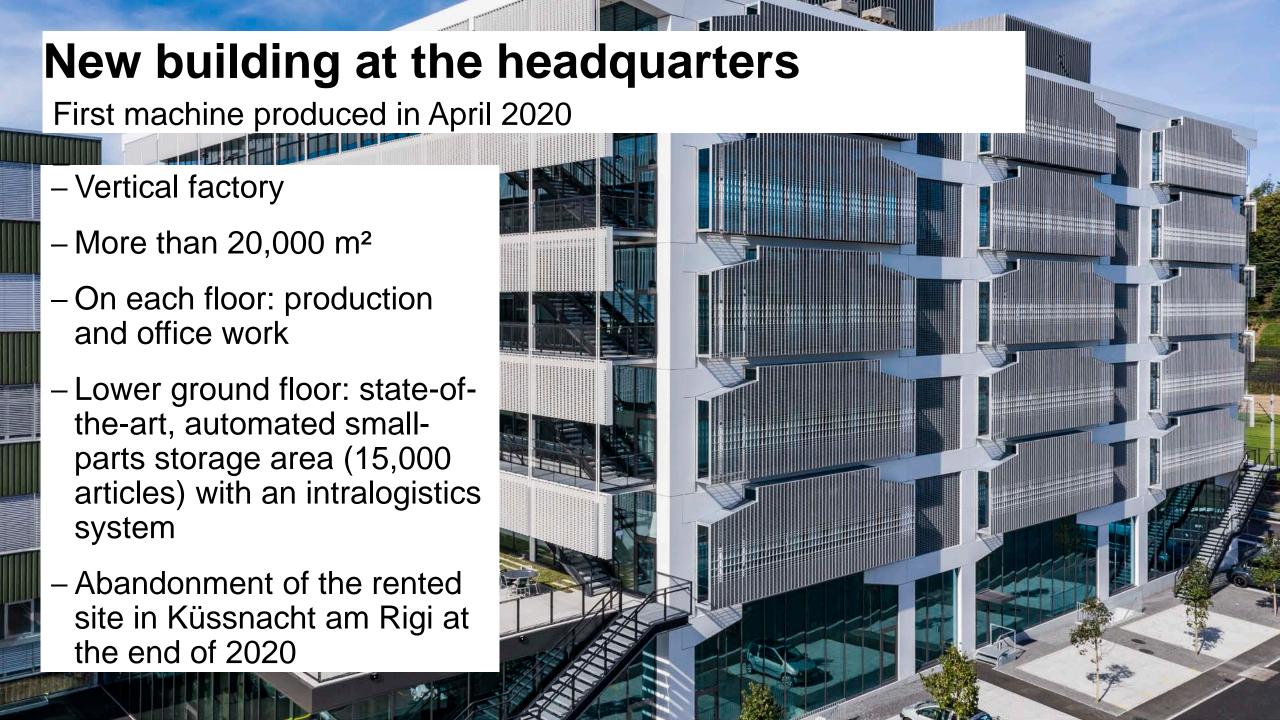
Measures to be optimally positioned in 2021

- Reduction of worldwide headcount, which will ultimately be around 10% lower than at the end of 2019 (2211 employees).
- We have been adjusting our structures at various Group companies since the start of the year, reducing headcount at the Komax Group by around 150 employees.
- The remaining reductions will mainly affect the two sites in Switzerland. Komax plans to cut around 10% of the current workforce (660 employees) in Switzerland.
- The consultation process started today.
- If this reduction is implemented, we expect that it will have no or very little need for short-time working in Switzerland in 2021.



AGENDA

- 1 Current situation outlook 2020
- 2 Insight into the new building
- 3 SMART FACTORY by KOMAX
- 4 E-mobility
- 5 Increase of automation
- 6 Focused strategy
- 7 Questions











AGENDA

- 1 Current situation outlook 2020
- 2 Insight into the new building
- 3 SMART FACTORY by KOMAX
- 4 E-mobility
- 5 Higher level of automation
- 6 Focused strategy
- 7 Questions

Challenges and opportunities



Cost of vehicle is going up, industry needs to gain efficiency



+2-3 %



+12-22 %



SHARED +2-3 %



+12-16 %

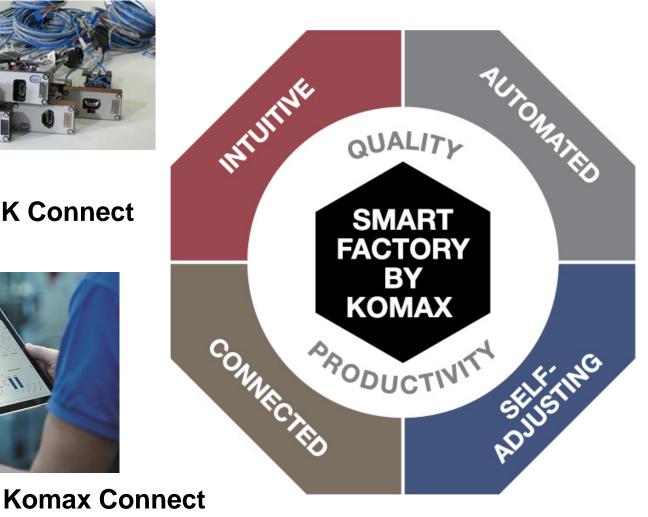
SMART FACTORY by KOMAX

komax

Simpler, more convenient, and safer





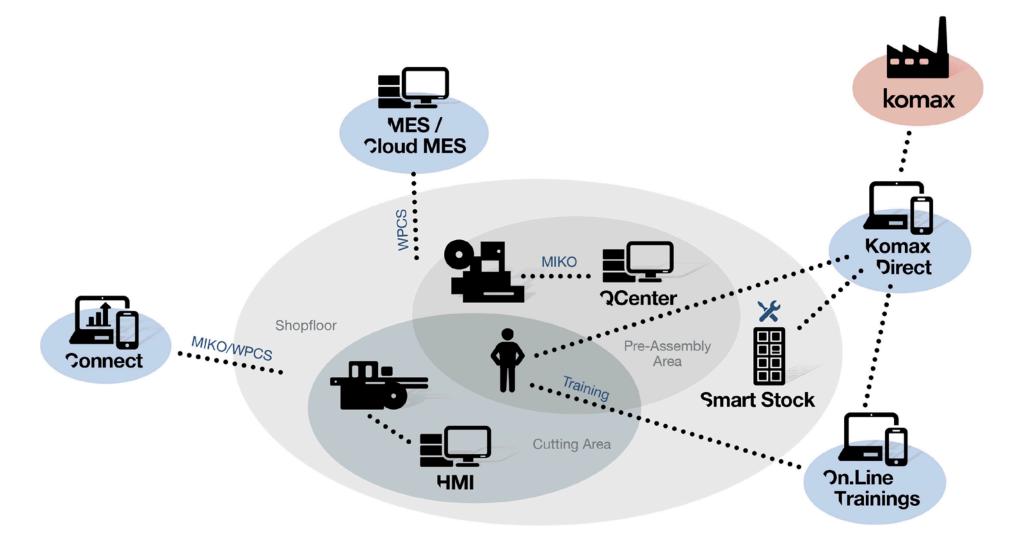






Digital services





Increase of transparency





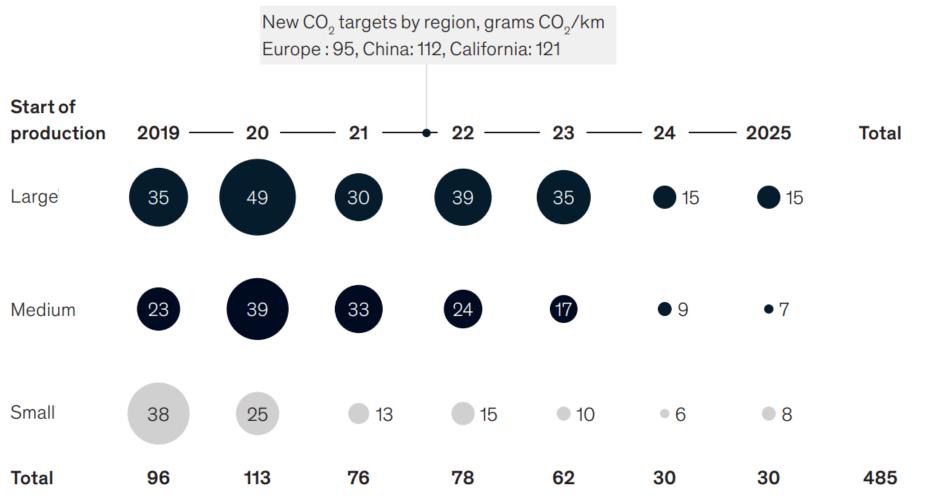


AGENDA

- 1 Current situation outlook 2020
- 2 Insight into the new building
- 3 SMART FACTORY by KOMAX
- **4** E-mobility
- 5 Higher level of automation
- 6 Focused strategy
- 7 Questions

Number of battery electric vehicle launches



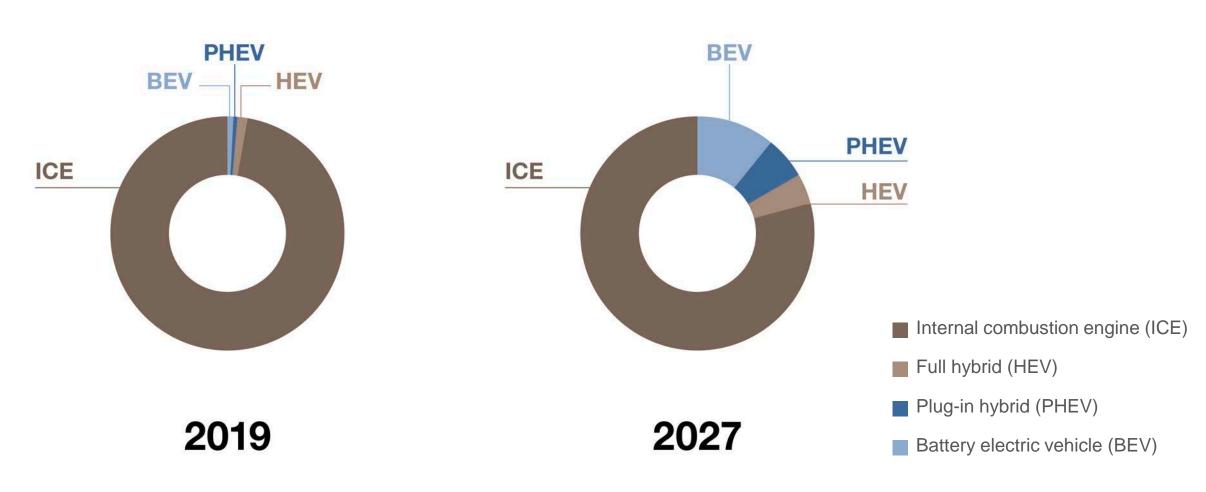


Source: McKinsey; January 2020

Development of e-mobility



High level of growth for electric vehicles (BEV & PHEV) – CAGR 30%





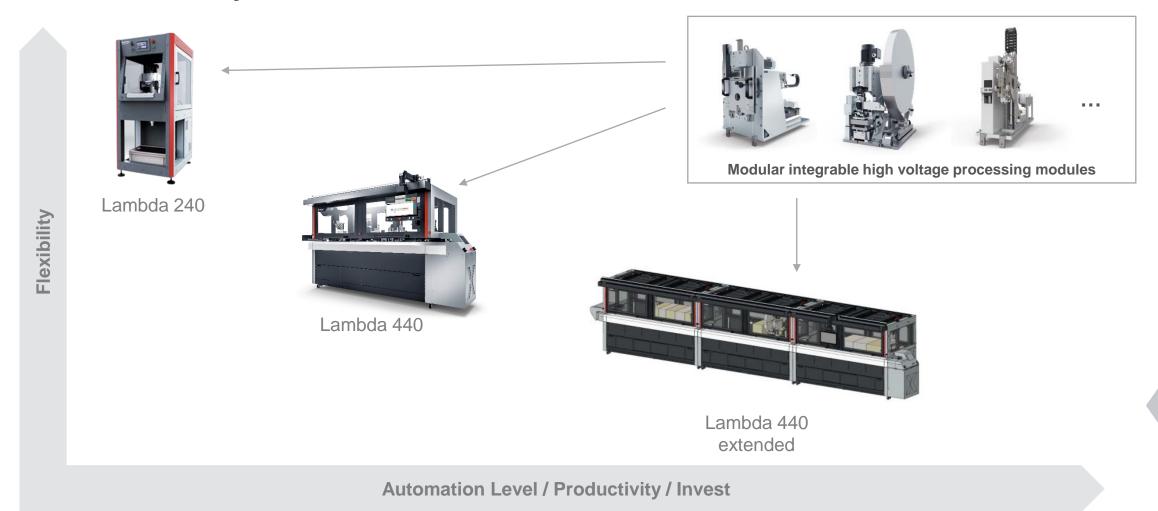
Komax well positioned as full solution provider



Platforms for high voltage solutions



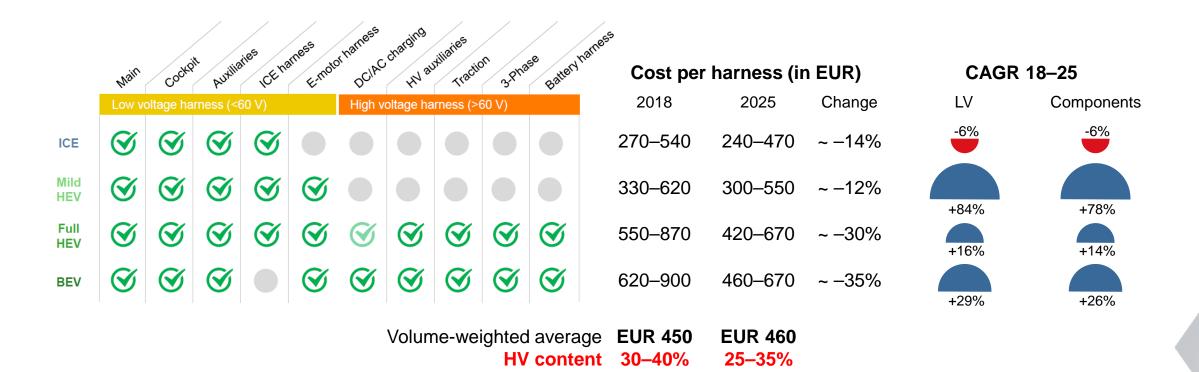
Modularized system for all automation levels



Overall harness value remains stable



15–20 cables represent one third of the value



Source: McKinsey, Leoni



AGENDA

- 1 Current situation outlook 2020
- 2 Insight into the new building
- 3 SMART FACTORY by KOMAX
- 4 E-mobility
- 5 Higher level of automation
- 6 Focused strategy
- 7 Questions

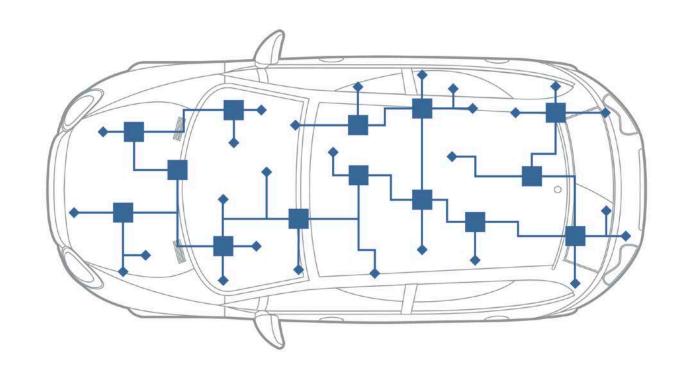
Increase of automation is necessary



Today's harness topology

Today

- Distributed vehicle architectures
- Incompatible hardware and software
- Security and over-the-air update challenges
- Inefficient development
- Not easily upgraded or scaled



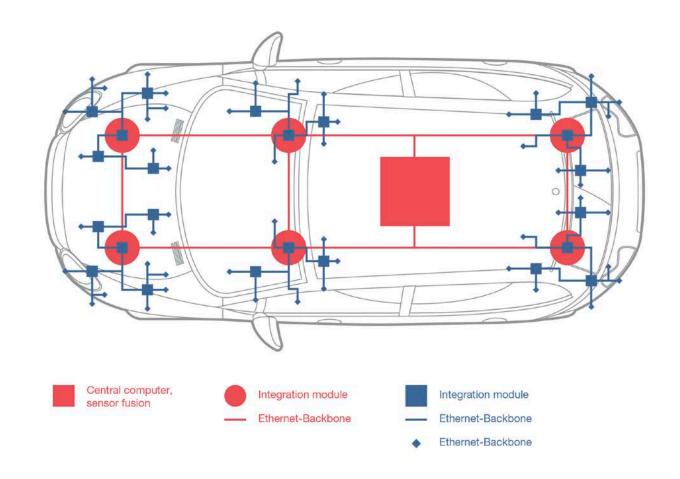
Increase of automation



Tomorrow's harness topology

Tomorrow

- High performance domain architectures
- Greater network capacity
- Secure, safe over-the-air updates
- Efficient to develop
- Upgradable and scalable platform, future proof



ARENA 2036



Automation of wire harness engineering, production, and assembly

- Active Research Environment for the Next Generation of Automobiles in 2036
- One year old
- 15 Partners along the supply chain (OEM, Tier 1 / 2 /3) plus scientific institutes
- Open (no closed shop)
- Industry driven (no public funding)
- Focus on pre-competitive enablers and standards for automation
- Based and coordinated by the research campus ARENA2036 on the campus of the University of Stuttgart

ARENA2036

ARENA 2036



15 partners – new members are welcome

• A P T I V •	BMW GROUP	(BOSCH	DRAXLMAIER	
Gebauer & Griller	komax	KOSTAL	KROMBERG & SCHUBERT	
KUKA	Mercedes-Benz	Nexans autoelectric	Rosenberger	
TIS CHÄFER	Sonosystems*	SIEMENS Ingenuity for life	"XYZ" who is next?) New members welcome!	

Some results of projects in phase 1



Komax leads the project "design rules for automation"

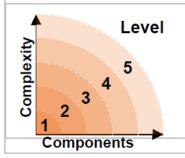
Design rules for Automation

- Idea is to consoledate all relevant design rules for automation of the wire harness as a whole and plug connectors
- Results: more than 100 specific design rules with concrete parameters and data categories (work in progress)



Level of Automation

- Idea: Level of Automation help to keep the balance between different options of transformation
- Results: Method of Level 0 to Level 5 with up to 15 criteria per level.



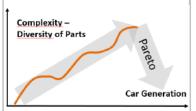
Index for Automation Effort

- Idea: ONE index figure, that expresses the Automization Friendliness of a component!
- Results: Method for measuring and comparing the Automation Friendliness Example: Comparing 2 HV Plugs

2.39 VS.

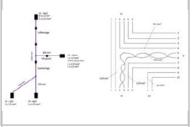
Reduction of Component Diversity

- Idea: Would a 80/20 approach ("Pareto Principle") help to define a set of basic components with as little diversity as possible?
- Results:
 Suggestion of a drastically reduced set of core components



Automated assembly in the vehicle

- Idea: Elaboration of modern Human-Machine-Collaboration models
- Results: Processand benchmark analysis and concept for the positioning of the wire harness into the vehicle



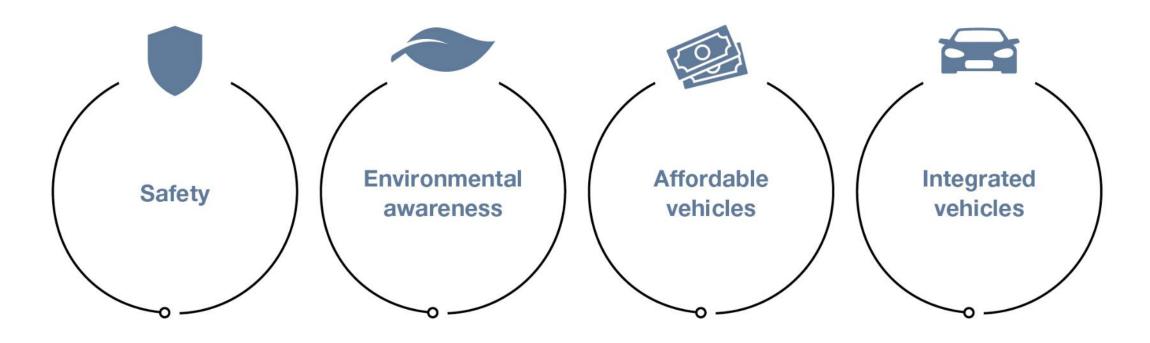


AGENDA

- 1 Current situation outlook 2020
- 2 Insight into the new building
- 3 SMART FACTORY by KOMAX
- 4 E-mobility
- 5 Increase of automation
- 6 Focused strategy
- 7 Questions



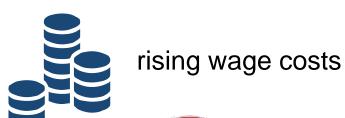
Global megatrends in the automotive industry

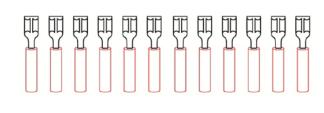


Steady rise in level of automation (CAGR: 2%–3%)



Numerous reasons





rising number of wires



autonomous driving



e-mobility



traceability









We are very well positioned for future growth

SOLUTIONS ALONG THE VALUE CHAIN



INNOVATIVE PRODUCTION CONCEPTS



GLOBAL CUSTOMER PROXIMITY



DEVELOP NON AUTOMOTIVE MARKETS



Mid-term targets up to 2023



REVENUES

450-550

- Primarily organic growth
- Increase in number of vehicles produced from 2021
- Increase in level of automation (CAGR: 2%–3%)

EBIT

CHF
50-80
million

million

- EBIT dependent on product mix
- EBIT strongly influenced by volume business (crimp-to-crimp)
- Low revenues (CHF 450 million) resulting in low EBIT (CHF 50 million)

PAYOUT

50%-60% of EAT

- Shareholders benefiting from sustained generation of value
- Attractive dividend policy
- Dividend dependent on business performance; no minimum dividend

Komax News Portal



Topics and insights from the world of automated wire processing



https://newsportal.komaxgroup.com

komax

Interesting articles and videos about Komax and the wire processing industry

Inside Komax

Find out all about Komax apprenticeships at ZEBI 2020

22.10.2020 - Michael Gehrig



From November 5 to 8, 2020, Komax will be presenting itself at the Central Switzerland Education Fair ZEBI as an attractive company for apprentices, with 10 apprenticeships

Read now >

Inside Komax

Register now! Komax Digital Experience Days, October 20-30, 2020

15.10.2020 - Kamila Deja



The Komax Digital Experience Days

2020 are on the c turbulent market, needs. Through s

Read now >

Technology & Innovation

The best equipment deserves the best service

08.10.2020 - Wolfgang Denk



The innovative products and solutions from Komax enable manufacturers to produce seamless quality combined with maximum output.

Read now >

Know-how

White paper: optimization potential in control cabinet construction

06.10.2020 - Reiner Konetschny



Faster, cheaper, better: the optimization potential in control cabinet design and production is huge. Discover in our...

Read now >

Inside Komax

Reminder: Komax Digital Experience Days 2020

06.10.2020 - Kamila Deja



Register for the Digital Experience Days 2020 now! Nine exciting days lie ahead of us: for the first time ever, we will be opening the doors to our new virtual...

Read now >

Contact / Financial calendar



Contact

Roger Müller
Industriestrasse 6
6036 Dierikon
Switzerland
Phone +41 41 455 06 16
roger.mueller@komaxgroup.com

komaxgroup.com

Financial calendar

Preliminary information on 2020 financial year	26 January 2021
Annual media and analyst conference on the 2020 financial results	16 March 2021
Annual General Meeting	14 April 2021
Half-year results 2021	17 August 2021

Disclaimer



This presentation contains forward-looking statements in relation to Komax which are based on current assumptions and expectations. Unforeseeable events and developments could cause actual results to differ materially from those anticipated. Examples include: changes in the economic and legal environment, the outcome of legal disputes, exchange rate fluctuations, unexpected market behavior on the part of our competitors, negative publicity and the departure of members of management. The forward-looking statements are pure assumptions, made on the basis of information that is currently available.

