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PRESSKIT 2025



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FORVIA



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Martin FISCHER CEO of FORVIA

Powering the Future of Mobility through Innovation and Sustainability

"AutoShanghai is where the future of mobility becomes reality — a time machine fast-forwarding us into tomorrow. As a global technology leader present in over 40 countries, FORVIA showcases a wide portfolio of cutting-edge, AI- and software-driven sustainable innovations. At the forefront of industry transformation, we are redefining mobility through safe, high-performance, sustainable, and cost-effective solutions for customers and drivers worldwide.

Driving the next level of energy efficiency, vehicle intelligence, and user experience, FORVIA leads three key megatrends: Electrification & Energy Management, Safe & Automated Driving, and Digital & Sustainable Cockpit Experiences. With a holistic approach combining energy management, wellbeing, and sustainable materials, FORVIA is ready to make an impact. At AutoShanghai, we will demonstrate breakthrough innovations in Al, autonomous driving, smart cabins, and ultra-fast time-to-market strategies offering a glimpse of what's next. With FORVIA mobility always finds a new path."



We pioneer technology for mobility experiences that matter to people.

FORVIA, combining the complementary strengths of Faurecia and HELLA, is shaping the future of sustainable mobility through innovation. As a global tech leader, the group focuses on three key megatrends—Electrification & Energy Management, Safe & Automated Driving, and Digital & Sustainable Cockpit Experiences.

The automotive landscape is also being transformed by digitalization, economic growth in Asia, and the increasing demand for sustainability. These forces inspire us to push boundaries, leveraging advanced technologies like AI, sustainable materials, and intelligent power management, to reimagine how automotive products are designed, manufactured and experienced to delivering safe, customized, affordable and sustainable mobility solutions for everyone.



FORVIA



Driving **sustainability** forward

"Designed for Scope 3" approach across all our solutions.

FORVIA is not just adapting to the energy transition—we are shaping it. Our impact spans the entire automotive value chain, from sustainable design and materials to lighter, more efficient vehicles that reduce CO₂ emissions and enhance recyclability.

We have set ourselves an objective that 100% of our new innovations produce a CO_2 reduction of at least 30%.

Our "designed for Scope 3" solutions prioritize lowimpact materials, lightweight designs, and optimized processes to minimize emissions and waste.

Through our MATERI'ACT portfolio, we leverage Al-driven sustainable materials to enhance efficiency and reduce CO₂, as seen in our lightweight door and instrument panels. Our sustainable lighting solutions further reduce energy consumption, boosting the overall sustainability of even the most premium vehicles throughout their lifecycle.

FORVIA engagement and leadership on CO₂ reduction will be reflected throughout our presence at AutoShanghai.

DID YOU KNOW?

designed_____ for SCOPE 3

A **Designed for Scope** 3 configurator is available on the FORVIA booth. It enables customers to experience the impact of material and process choices on the sustainability KPIs of a cabin design.



Serving **all mobility** markets and segments

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Where better to showcase our best cutting-edge innovations than in China, a pioneering market, especially when it comes to fully electric vehicles or artificial intelligence? FORVIA's global reach and deep OEM partnerships enable us to tailor innovations to diverse market needs and regulations. As the industry shifts eastward, we are strategically positioned to serve key markets like China, India and Japan.

We have been working in China for 30 years, developing strong partnerships with Chinese OEMs, suppliers, and startups, as well as German and American automakers operating in China. We are currently supplying the top 20 Chinese automakers.

Some of our brand-new innovations, like Safe 60 Seat for maximum safety in a more relaxed position or 3D Zen Massage Seat for a premium massage experience, are especially tailored for Chinese market.

Our adaptable approach spans all segments — from affordable to high-end vehicles and across passenger cars, commercial vehicles, and two-wheelers — ensuring impactful, sustainable mobility solutions worldwide.







Chuan MA Executive Vice President China of FORVIA

Driving Innovation and Partnership at AutoShanghai

"The Shanghai Auto Show has become the most important event in the automotive industry, reflecting China's role as the world's largest car market and a global leader in EV and smart vehicle innovation. As we rooted in China over 30 years, with around 70 sites and 33,000 employees, China is FORVIA's primary country in operations, driving both our industrial footprint and technological advancements.

From pioneering net-zero manufacturing to developing breakthrough innovations like LUMI seating illumination and the zero-gravity Captain Chair, our deep local expertise allows us to co-create with Chinese partners while shaping the future of mobility on a global scale."

FORVIA



Redefining the vehicle as a **multifunctional living space**

FORVIA envisions the vehicle as far more than a means of transportation and creates a multifunctional living space, including relaxation, wellbeing, comfort, and leisure modes. Its seating technology now offers smart systems that analyze the morphology of their occupants. Digital continuity is another key element, connecting the vehicle's digital systems with personal devices and expanding the user experience both inside and outside the car.

All this renders FORVIA as a Group uniquely positioned to drive the automotive industry's transformation towards a safer, sustainable, automated and connected future. This freedom of design is demonstrated in the brand-new masterpiece Saphir, designed especially for the AutoShanghai by the cockpit of the future teams.



AI for road safety and occupant comfort

Thanks to its pivotal role in Autonomous Driving Systems, FORVIA is contributing to global road safety progress. Leveraging the learning power of AI, FORVIA acts at the beginning, in the middle, and at the completion of active safety. It starts with perceiving the road environment using a 360° radar belt and intelligent lighting. Then comes rich, informed interaction between driver and vehicle through a smart cockpit interface with sensors, displays, and actuators. It ends with fail-safe steering, acceleration, and braking by wire, supported by protected electronic networks. With safety in mind, FORVIA adopts a holistic, systemic approach: through innovation and technology, it actively anticipates and helps avoid accidents for both vehicle occupants and vulnerable road users.

With over 20 years of cockpit experience, FORVIA has trained AI-powered engineering tools to reduce time-tomarket and offer robust, innovative designs. Serving more than 80 OEMs globally, FORVIA has gained vast experience and AI-ready data for occupant comfort and safety. Its smart seating systems analyze occupant morphology and adapt accordingly. Intuitive driver interfaces are enabled through consistent systems of sensors, actuators, and feedback devices. Digital continuity connects vehicle systems with personal devices, enriching the user experience inside and outside the car. FORVIA is fully committed to unleashing the power of AI for enhanced road safety and comfort.

SAPHIR MASTERPIECE

FORVIA is revolutionizing the automotive cabin experience and redefining what a road vehicle could offer by seamlessly integrating comfort, safety, technology, and sustainability. Our designs transform vehicles into adaptable, personalized spaces for work, leisure, and social interaction. Even in compact SUVs, innovations like "gaze-and-select" enhance functionality while keeping costs low. The Safety Seat provides premium comfort and support, ensuring high-end performance and safety for all.

- It offers an unexpected feeling of space across versatile configurations, shifting seamlessly from your daily commute to a unique cruising experience for all occupants, and finally becoming a weekend companion for outdoor adventures.
- Saphir Masterpiece welcomes the customer with advanced personalization, connectivity and digital continuity, as well as an HMI concept that starts before entering, the very calm interior gradually revealing its features once you need them.
- The demo showcases exterior lighting solutions offer opportunities for attractive and highly emotional vehicle branding and differentiation as well as visual vehicle to user communication (exterior displays, projections).
- Unexpected and meaningful cabin versatility, addressing both driving and standing (FORVIA Centerpiece signature). Feeling of space and roominess as key highlight.



- > Lifestyle continuity enabled by:
 - Home design & furniture like interior element (central console, lighting) as well as material choice.
 - Profile based personalization & interaction via myCar app with possibility to interact for driver & occupants from outside to inside.
- Holistic Cabin HMI FORVIA's innovative use of multimodal HMI (Human-Machine Interface) technology further enhances the user experience with disruptive invisible display integration and multimodal & sensorial system leveraging sensors & actuators throughout the cabin to enable more efficient & safe interactions.
- Sustainable materials (Auraloop™, Ecorium, NAFILean Vision) and unique process capabilities (NFPP/natural fiber-reinforced composites compression) leveraging end-to-end ecosystem.
- > New Value spaces with focus on non-driving services, like "in&out" scenarios: unite affordability and indulging experiences. Saphir tackles key evolutions of in-car experience with new design approach and fostering new car usages.

De pioneer technology for mobility experiences that matter to people.



Questions to

Group Industrial Design Vice President, FORVIA

How have FORVIA's Masterpieces evolved from Lumières to Saphir?

Lumières was our first full exterior vehicle concept, marking the start of FORVIA by integrating HELLA's lighting with Faurecia's expertise. Each Masterpiece—Lumières, Horizon, and Saphir—focuses on holistic, market-ready user experiences. Over time, our concepts became more mature, compact, and versatile, enhancing architecture, weight optimization, and sustainability. Electronic and software integration grew, emphasizing digital continuity and intuitive user interaction. With each iteration, complexity, realism, and execution quality have significantly improved.

What is the history behind FORVIA's Masterpiece concept?

FORVIA's Masterpiece journey began in 2007 with "Premium Attitude," an unexpected yet visionary interior-exterior concept. Its success paved the way for Lumières, Horizon, and Saphir, now fully embraced by the company. These annual projects unite FORVIA's best innovations into stunning demonstrators, crafted by a dedicated team. Beyond showcasing technology, the FORVIA Masterpieces foster internal pride and have become a strong and recognized market signature.

How does Saphir incorporate sustainability into its design and development?

Andreas WIASAK

Sustainability is central to Saphir's design, starting with its compact size—less material, weight, and CO₂ without sacrificing comfort. Architectural innovations, like a minimal instrument panel and a relocated firewall, enhance efficiency. Swiveling seats use a lighter, traditional belt system.

Through MATERI'ACT, FORVIA's subsidiary for specifying, developing and producing compounds and foils with low emission factors, bio-based and recyclable, we have access to a large choice of attractive yet sustainable materials. Many of the soft surfaces are wrapped in a solution combining recycled foils with a certain natural fiber content.

Another aspect: cars should be able to live longer! Many parts within our proposal are based on a modular concept, which allows single parts to be replaced over the lifetime of a vehicle that therefore can stay attractive for longer periods and enjoy a longer life.



ELECTRIFICATION & ENERGY MANAGEMENT

FORVIA creates the sustainable innovations that are driving the transition of the automotive industry – ranging from hydrogen storage solutions to technologies for electrification and energy management. In collaboration with our OEM partners, we are developing smart, low-carbon technologies that pave the way for zero-emission mobility.





Power Electronics & Battery Management

FORVIA HELLA stands out as one of the few automotive suppliers offering a comprehensive product portfolio of electrification technologies, addressing energy management and thermal management across all vehicle segments — from economy to luxury. Our innovations empower customers to accelerate their transition to zero emissions and shape the future of mobility.

- > FORVIA HELLA's EnergyCore: revolutionizes electric vehicle efficiency by integrating key power and battery electronics into one unit. With over 20 years of energy management expertise, it offers a fully integrated system from a single source. The modular X-in-1 design optimizes vehicle design, reduces complexity, and simplifies manufacturing with automated production and Al-driven quality control. EnergyCore enhances OEM flexibility and supply chain efficiency by reducing components and enabling faster assembly. Its automated assembly lowers failure rates, improves reliability, and reduces Total Cost of Ownership.
- The Low Voltage Battery Management Systems for 12V and 48V board nets, complete the FORVIA HELLA energy management solutions. With nearly 20 years of expertise, we supply leading OEM as versatile energy management expert and market leader intelligent battery sensors and 48V DC/DC converters. Our Lithium-Ion batteries, developed with leading Chinese battery suppliers, outperform traditional lead-acid batteries, lasting three times longer, being half the size, and 12kg lighter, meeting the growing energy needs of infotainment systems.





Advanced exhaust system for PHEV & EREV: depolluting tens of millions of vehicles every year

FORVIA partners with OEMs globally to meet stricter emissions and pollutant regulations, offering technologies for internal combustion, hybrid, plug-in hybrid, and H_2 ICE vehicles across multiple segments. Our solutions help to depollute 22 million vehicles annually. As a market leader in China, in exhaust systems for plug-in hybrid and extended range electric vehicles, we:

- Combine digital solutions to enhance cabin acoustic comfort, and address space and noise challenges with cost-effective valve portfolio:
 - Adaptive Valve optimizes system packaging , offering up to 5 liters of package space
 - In Silencer Valve improves tailpipe acoustics, reducing low-frequency resonances to achieves a 2-3 dB reduction.

- Achieve engine noise cancellation, particularly during low-speed charging, through proprietary software.
- > Ensure affordability through cost-optimized aftertreatment systems.
- Reduce emissions, and support decarbonization with products made of 60% recycled materials and with a potential of 95% end of life recyclability – while contributing to lower CO₂ emissions and increased recycled content.



Innovative MultiCavity storage system

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Hydrogen technology offers unparalleled convenience to end-users for energy-intensive usages. It boasts a faster charging time than battery electric vehicles, provides more autonomy on intensive cycles, and features a lighter powertrain.

One of this year's highlights is FORVIA's MultiCavity hydrogen storage system. This technology features several type IV composite vessels connected to a single upstream on-tank valve. Thanks to its specific design, this innovative solution offers up to 20% cost savings and a remarkable 35% reduction in CO_2 emissions.





Efficient hydrogen transportation solution

FORVIA is also leading the way in hydrogen transportation with its certified hydrogen composite cylinders for MEGCs (Multiple Element Gas Containers). Essential for regional hydrogen logistics and last-mile delivery, MEGCs offer optimized logistic costs ranging from - 34% to - 56% compared to standard tube trailers.

DID YOU KNOW?

Our hydrogen storage systems are already powering commercial vehicles, with 34 million kms driven since 2016, of which 1 million kms during the **Paris 2024 Olympic Games**.

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Olivier LEFEBVRE

Executive Vice President Group Industrial Operations & Clean Mobility

Custom Solutions, Global Impact



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"At Clean Mobility, our role is to enable cleaner mobility across all technologies—supporting every one of our customers as they transition from internal combustion engines to electric and hydrogen-powered vehicles. With a full portfolio across powertrains, global industrial reach, and deep expertise we don't believe in one-size-fits-all solutions and combine the agility to tailor solutions with the scale to deliver them competitively. That's what makes us a partner of choice for OEMs worldwide, and the Chinese market is a prime example of how we turn that promise into performance."



Int

Questions to

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Senior Vice President Hydrogen Solutions, FORVIA

How does FORVIA view the future of hydrogen for heavy-duty mobility?

While battery electric vehicles (BEVs) are gaining traction, hydrogen fuel cell electric vehicles (FCEVs) offer a critical, complementary solution—especially for energy-intensive, high-uptime applications like long-haul trucking, industrial transport, or emergency response. These are segments where fast refueling and extended range are essential.

At FORVIA, we've made significant strides to industrialize and scale this technology. Since 2020, we've divided product costs by three—a result of innovation, operational excellence, and collaboration across the hydrogen ecosystem. Our technologies are ready. Now, the challenge is collective: public and private stakeholders must align to accelerate infrastructure and adoption.

Sustainability is key in hydrogen's promise. What steps are you taking to reduce the environmental footprint of your hydrogen storage solutions?

Sustainability is at the core of our hydrogen strategy. At our Allenjoie plant, one of the most advanced in Europe, we operate within a BREEAM "Excellent" certified building and employ next-generation production processes to reduce emissions. Our second-generation composite tanks are a clear example: they lower the CO₂ footprint by 10% per kilogram of hydrogen stored compared to the previous generation.

We achieve this by optimizing the amount of carbon fiber used and sourcing low-carbon-footprint fibers in partnership with our suppliers. We're also exploring thermoplastic technology to improve end-of-life recyclability. It's about advancing performance while staying true to our environmental commitments.

Yves DUMOULIN

With growing competition in hydrogen storage, what makes FORVIA's technology stand out?

What sets us apart is our combination of scale, experience, and proximity to our customers. Our deep automotive DNA ensures we deliver industry-grade quality at the right pace—something essential in a fast-developing market like hydrogen. We are the only supplier with certified XL-format tanks tailored for heavy-duty mobility, which we see as a cornerstone for hydrogen's future.

We also operate four plants across France, China, and South Korea, giving us the agility to support customers globally and react quickly to their evolving needs. Recently, Type IV tanks have been authorized in China—and FORVIA, through Faurecia CLD, became the first global supplier certified for them.

And we continuously learn over 34 million kilometers have been driven using FORVIA hydrogen storage systems insights that fuel our constant improvement and innovation.



SAFE & AUTOMATED DRIVING

Automated driving is accelerating, with AD Level 2 now standard and Level 4 on the Horizon. Safety and autonomy are paramount concerns for both consumers and regulators. We harness our industry-leading expertise in lighting, sensors, perception software, and actuation to develop advanced solutions that enhance road safety for all. These innovations drive safer, more automated mobility for drivers and passengers, thus providing the reliable, safety-critical technologies OEMs need on their journey to full automation.



FORVIA

Electronic fuse solution **iCon***F*

Based on 30+ years of expertise in electronic controls, FORVIA HELLA launches iCon*F*, the eFuse solution that advances from cable protection to proactive energy distribution, crucial for vehicles with automated driving functions. Unlike traditional fuses, iCon*F*, which can be integrated into HELLA ECUs or OEM devices, uses semiconductor elements to actively monitor and control power distribution in 12V and 48V systems, ensuring fail-operational functionality, critical for maintaining system availability. Al-based predictive maintenance, using Al and digital twins, prevents failures, improving system stability. By reducing wiring harness length and diameter by up to 30%, it enhances space, weight, and efficiency.





ForWave7^e – performant sensor for cost-sensitive customers

FORVIA HELLA, a trusted radar supplier with 20+ years of experience, offers a 360° radar portfolio for cost-optimized, high-resolution solutions. ForWave7^e is designed for cost-sensitive customers, delivering premium performance, meeting China NCAP standards, and enabling AD Level 2+ and above. It excels in complex traffic and supports parking without ultrasonic sensors, offering design flexibility and cost optimization. Providing comprehensive coverage, it detects pedestrians, scooters, and e-scooters, enhances safety with timely warnings, and supports accurate detection and emergency braking. Radar-assisted parking uses existing sensors for cost-effective, safe parking.



Vehicle **exterior displays**

FORVIA's display solutions offer full design flexibility, allowing seamless integration anywhere at the vehicle, whether at the front, rear, or side, like in the rocker panel. Tailored specifically for automotive applications, our modular display portfolio offers high-resolution, high-contrast, and cost-effective solutions to meet diverse industry needs. OEMs can utilize our displays for dynamic communication features such as safety messages, welcome and goodbye scenarios as well as even realize legal lighting functions like turn signals or position light. With our FORVIA HELLA exterior display solutions we are offering new vehicle use cases including personalized lighting experiences.

By-wire braking & steering

FORVIA HELLA delivers cost-efficient by-wire solutions, featuring a compact pedal box, that, by design, resist magnetic interference, ensuring optimal performance and signal integrity.

The pedal box for acceleration and braking, maximizes space for the EV battery and allows for flexible integration into any vehicle platform. The robust design uses 50% fewer components and achieves a 75% weight reduction. A 60% volume reduction streamlines logistics, reducing CO₂ emissions. The by-wire steering sensors ensure safe driving through best in-class quality with the lowest PPM rate. A single packaging and interface for all platforms simplifies integration without additional validation.



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Questions to

Managing Director Business Group Lighting, FORVIA HELLA

What measures does Lighting take to support customers in achieving the CO₂ goals?

Our goal is to offer our customers a range of scalable solutions that help bring their products to the level of sustainability they're aiming for. Which means: We are looking at materials and processes, product design and performance. We are exploring the use of recycled or biobased alternatives; we're evaluating innovative methods like MuCell technology to reduce material usage; we're looking at slimmer concepts with fewer components, thus less weight and a simpler assembly process as well as optical systems that also support repairability and improve efficiency. The bottom line is that with the prototypes we are presenting here at AutoShanghai, we are saving up to 70% CO₂ with the aim of ensuring that there are no additional costs. and above all with clear target that no additional costs are incurred.

How do you see the trend for adaptable signatures and communication via light and how is Lighting contributing to it?

Lighting has evolved into a key element of vehicle identity, branding, and differentiation. Today, dynamic welcome and goodbye scenarios are widely common. The latest developments are dynamic light signatures with the possibility to change the look of the car just by software. For example, we recently launched a comprehensive frontlighting concept for a leading international OEM, with which the driver can select the graphics of the cars functional daytime running lights. This trend of individualization and communication is progressing even further with the integration of vehicle exterior displays. This will be the next big thing, the next differentiator in vehicle lighting, which however needs to be paired with legal functions to ensure affordability. As a unique market opportunity, within the FORVIA group we can offer a complete hardware and software ecosystem. From vehicle specific Apps market Appning, Light Open Cloud Platform, Lighting Electronics software and hardware up to modular and scalable vehicle exterior displays, we can offer the complete value chain for software driven personalization, differentiation and communication by vehicle lighting.

NDRES

We see a growing share of electronics and software content in vehicles providing vehicles with more intelligence. How can Interior Lighting benefit from this?

Interior Lighting always played a relevant role in nighttime drives, primarily to support orientation and reading. This has long progressed since then, making it possible to illuminate certain areas in the car for differentiation and to provide a living room or well-being atmosphere. Complete surfaces can be illuminated or certain contours. With this, Interior Lighting became an essential part of a holistic vehicle interior user experience. New solutions are embedded into vehicle sensorics environment and visually support for example with flashing red lights a warning in case of an approaching car from the rear and intended door opening. Interior Lighting becomes smart and opens a new visual communication channel for drivers and passengers with dynamic Interior Lighting solutions. In the top line sophisticated all-in-one solutions incorporating switches, touch panels, RGB ambient lighting, and sensors. With FORVIA combining the respective expertise of the different Business Groups, we can offer comprehensive solutions to our customers as global One-stop-shop.



Skyline pillar-to-pillar display

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FORVIA's Skyline pillar-to-pillar display delivers a seamless, immersive infotainment experience at an affordable cost. By assembling six smaller displays instead of one large, curved screen, we enhance sustainability, reduce production costs, and improve quality. Designed for all vehicle segments, Skyline offers navigation, driver information, safety alerts, eMirror feeds, and customizable apps bringing high-end technology to mid-range and compact cars for the first time.





Safe & Relax **Seat**

The Safe & Relax Seat meets future seat inclination regulations while maximizing comfort and safety. The Safe 45 reclines up to 45 degrees with a reinforced frame, keeping seatbelt attachment fastened to the vehicle body. The Safe 60 extends recline to 60 degrees with an All-Belt-to-Seat design for optimal protection.

Both models integrate occupant monitoring sensors to prevent unsafe postures. FORVIA's Compact Comfortable Structure integrated into the Safe 45 seat ensures space efficiency, making it ideal for electric vehicles.



Next-Generation Transparent Door technology

Building on its CES 2024 award-winning design, FORVIA's Gen 2 Transparent Door enhances safety and convenience. By replacing the LED matrix with advanced projection technology, it delivers improved image quality at a lower cost. Projected into the upper door panel, the image provides real-time external visibility and alerts passengers to hazards. Beyond safety, it supports dynamic ambient lighting and information displays, seamlessly connecting the cabin with the outside world.

FORVIA

Questions to

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Executive Vice President Seating, FORVIA

FORVIA has established a strong presence in the Chinese automotive seating industry. What is driving this growth?

With around 35% of our sales coming from China, FORVIA Seating is deeply rooted in the Chinese market, working with international and Chinese OEMs in all segments. We have a very strong foothold in the EV market, with around 65% of our sales in China going to Chinese EV makers, including BYD, Chery, and LEAP.

Our partnership with BYD launched in 2018 and has already resulted in the inauguration of eight factories and an R&D center in China, plus an overseas plant in Thailand. Now, our Dragon frame can be found in 90% of all BYD vehicles and, last year, we initiated a joint venture with Chery, another significant player. We are also helping Chinese OEMs to enter the European market, partnering with BYD for instance to spearhead the launch of its first activities in Hungary.

How does FORVIA adapt its seating solutions to the requirements of the Chinese market, particularly their comfort, safety and design?

Chinese consumers have a heightened demand for luxury in every aspect of their vehicles. FORVIA has delivered a range of innovations to cater to these preferences, which we are unveiling during the AutoShanghai show, including our Transformer seat, which adapts its shape according to the occupant's morphology and ride context, and our 3D Zen massage seat, which provides a premium mechanical massage system. This has multiple advantages over a traditional pneumatic massage, offering a stronger therapeutic sensation with faster response times, plus an acupoint design for additional wellness benefits. For security and comfort in one package, our Safe 60 uses an All-Belt-To-Seat frame combined with kinematics, delivering maximum protection for the occupant, even when the seat is reclined to a 60-degree position.

Stéphane

How are the seating operations of FORVIA structured in China to cope with upcoming challenges?

We have a well-established network and team that knows the market extremely well and is able to respond agilely to any business demand. FORVIA Seating's China team now numbers approximately 15,000 people, including around 1,000 engineers or engineering-related experts.

FORVIA has dedicated R&D centers in Wuxi, Wuhan, and Shanghai where our Chinese teams participate in the development of technology for the local market and beyond. We also maintain four more R&D centers that we created with our JV partners.

DID YOU KNOW?

Steel, which is used in the production of frames and mechanisms for automotive seats, accounts for 45% of FORVIA's CO₂ emissions from purchased goods. FORVIA is collaborating with steelmakers globally to decarbonize its seats.

During AutoShanghai, FORVIA is strengthening its partnership with *Baosteel* to facilitate the production of sustainable steel seats.



DIGITAL & SUSTAINABLE COCKPIT EXPERIENCES

At FORVIA, sustainability and digital innovation converge to create connected, intuitive and customizable solutions that help lower fullscope emissions throughout a vehicle's lifecycle. Our products deliver extended vehicle life and advanced experiences, designing for both customer benefit and environmental responsibility, helping to lower costs and emissions for OEMs. We have set ourselves an objective that 100% of our new innovations produce a CO₂ reduction of at least 30%.

My car

Cabin



B

FORVIA advances sustainable automotive interiors with innovative designs in their OPALE interior concept demonstrator with low-impact MATERI'ACT materials, and lightweight solutions. Technologies like NeoSkin enable high-quality surfaces with color and texture directly through injection, reducing costs, and material use. Compression technologies with NFPP (natural fiber-reinforced composites) further enhance lightweight design, while introducing premium, sustainable finishes like woven flax fibers.



designed_____ for SCOPE 3



Transformer **Seat**

FORVIA's Transformer Seat sets a new benchmark in comfort and adaptability. Using advanced sensors and safety technology, it automatically adjusts up to 10 parameters based on the occupant's morphology and driving conditions. Features like embedded lighting, massaging, haptic feedback, and heating enhance both comfort and luxury, making it ideal for high-end vehicles across all powertrains.



Scalable Bench

Optimized for electric vehicles, FORVIA's Scalable Bench is the first flexible rear seating platform, adjustable in height and width for different vehicle sizes. It enables OEMs to reduce design and assembly costs by up to 40% while unlocking 80L of extra storage. Made from recyclable materials, it features a hybrid backrest, AuraloopTM cushioning, and eco-friendly covers like Bloomera and Ecorium, offering a 35% reduction in CO_2 emissions compared to a conventional rear seating bench.

3D Zen Massage Seat

Bringing home massage chair technology to vehicles, FORVIA's 3D Zen Massage Seat offers kneading, rubbing, tapping, and grasping functions for a superior relaxation experience. Its compact, adaptable design suits various OEM platforms, while customizable massage modes cater to long drives, leisure, or charging stops. Its versatile massage options redefine in-vehicle wellness.

Sustainable exterior lighting

At FORVIA HELLA, we are pioneering sustainable exterior lighting solutions that help OEMs achieve their Scope 3 sustainability targets—all while maintaining cost neutrality, cutting-edge styling, and performance. Our approach integrates lightweight materials, optimized product architecture, and dynamic light intensity adjustment. For the headlamp, we achieved uncompromised safety and performance.

Our sustainable rear lamp features a compact, minimized design that meets global regulatory requirements with opportunity for repairs, upgrades, and recycling.

Full range of interior lighting

FORVIA HELLA offers a comprehensive portfolio of interior lighting solutions and effects within the vehicle cabin for every OEM- from budget to premium applications. Our expertise in interior surface backlighting ranges from high-resolution lighting applications to cost-effective, ultra-thin "CoFI" systems with opportunities for integration of heating or touch functionalities. Beyond surface backlighting, our interior lighting portfolio includes advanced contour lighting systems, designed for cost-efficient integration. Our flexible "CORA Light" modules adapts to even the most complex geometries with minimal integration effort, setting new standards in design freedom and lighting performance.

Appning by FORVIA

Appning brings over 200 apps—games, music, news—to vehicles, supporting 32 automotive brands with a goal over 20% market share by 2025. Integrated with Driver Monitoring Systems, it enables secure logins, Teams calls, and a Wellbeing app that tracks heart rate and facial expressions. Alpowered features personalize experiences, extend digital system lifespans, and enhance sustainability.

Kids Care

FORVIA's latest Driver Monitoring System (DMS) includes Kids Care, which allows a frontseat passenger to create a world first-avatar of themselves that can be used to interact with or entertain passengers in the back of the vehicle. The system employs the DMS camera to track and analyze the front passenger's movements, then uses artificial intelligence (AI) to animate a fun, customizable avatar that can be shown to rear passengers who have brought along their own electronic devices. Kids Care can be styled in a range of fun ways that should keep babies or kids occupied and entertained during long journeys. The Kids Care feature and this use of passenger monitoring technology is a world-first, currently offered only by FORVIA.

Modular & on-demand center console

FORVIA offers enhanced comfort and in-car convenience with its furniture-inspired modular center console, tailor-made for the Chinese market. This innovation elevates the center console to a multi-purpose lifestyle tool with customizable functions like a coffee machine, large storage, or a retractable display for a "theater mode" experience. Our Smart Modularity Interface concept allows power reception without design changes, enabling OEMs to create tailored features for different vehicle segments. The console's modular design also allows easy upgrades and repairs, ensuring long-term usability and design freedom.

Instrument panel platform

Standardized products for scalability or customized development for market, why choose when you can have both? Our Hybrid Cross-Car Beam (CCB) concept combines platforming with design freedom. By standardizing the structural backbone, while allowing full cockpit customization, we reduce time to market up to 80% on the second applied program. On-top, our innovative approach reduces weight by 16% and reduces emissions by 46% compared to traditional steel CCBs. Meanwhile, our standardized motorized DecoVent concept creates a platform for non-visible components, while enabling program-specific customization of the visible design elements. The result is a 30% time to market on second applied programs. on the 2nd applied program. Efficiency, agility, and innovation—all in one platform.

AirVision: Advanced image projection & intuitive gaze-control interaction

FORVIA's AirVision delivers a stable, vibrationfree reflection by creating a 3D virtual image of a display on a flat, translucent surface integrated into the instrument panel. With "gaze-and-select" technology, it uses a Driver Monitoring System camera to detect the driver's gaze, allowing selection with a glance and a click, reducing distractions for a seamless driving experience. Scalable and highly adaptable, AirVision can replace traditional displays, offering OEMs design freedom to create unique, 360° seamless interiors.

Hidden display

This driver display is integrated behind a fabric-like surface when not in use and reveals advanced driver assistance systems and maps when on. Using an image-enhancement algorithm from IRYStec (Canadian start-up acquired by FORVIA in 2020), it adjusts pixel colors based on lighting conditions for better visibility and driver perception. FORVIA provides both the hardware and software for this immersive, safe solution.

MATERI'ACT

Global scale & local agility leveraging AI to offer full portfolio of sustainable materials

FORVIA'S MATERI'ACT portfolio offers sustainable, highperformance materials aimed at reducing CO₂ emissions and weight across automotive products. NAFILean, powered by MATERI'ACT, is already used in more than 10 million vehicles, including its latest version, NAFILean-R, featured in the Renault 5 E-Tech.

Harnessing over 15 years of expertise in smart, sustainable materials, MATERI'ACT leverages AI to accelerate material formulation, reduce development time, and deliver customized solutions. Each MATERI'ACT material is equipped with a digital passport, providing full transparency and traceability with key sustainability indicators, including CO₂ reduction and recycled content percentage.

Key materials include NAFILean, a recyclable biocomposite made from hemp fibers, and IniCycled, which incorporates up to 100% recycled plastic. The latest innovation, NAFILean Vision, is a recycled material designed for visible and decorative applications. With its range of color and refined textures achieved directly during injection, it eliminates the need for painting combining aesthetics, sustainability with cost efficiency. MATERI'ACT also pioneers ultra-low CO₂ surface materials, like Piñatex Advanced[®] (pineapple fibers) for interiors. With up to 85% CO₂ reduction, these materials enable OEMs to meet sustainability goals while providing traceability through digital passports that show key sustainability indicators.

FORVIA

Questions to

Executive Vice President Interiors, FORVIA

How does FORVIA tailor car interiors to meet regional consumer expectations and enhance brand differentiation, especially in the context of electric vehicles (EV)?

FORVIA tailors interiors by combining deep regional insights with the design freedoms brought by electric vehicles. As EVs offer flatter floors and more usable space, we reimagine the cockpit as a lifestyle space, not just a functional one. This is especially relevant in markets like China, where younger drivers see cars as lifestyle extensions. With a strong end consumer focus, we deliver personalized, trend-driven solutions aligned with local preferences and brand identities. A great example is our On-Demand Center Console, offering features like a built-in coffee machine, smart storage, or a retractable screen for theater mode. Our modular, flexible platforms help OEMs adapt interiors to both EV-specific layouts and regional expectations, enhancing brand differentiation.

How does FORVIA's modular design approach help OEMs accelerate time-tomarket and enhance competitiveness in car interiors?

FORVIA Interiors combines efficiency with design freedom through a modular design approach. Our scalable platforms allow OEMs to reuse key components across multiple models, cutting development time and costs while maintaining strong brand identity. With a clear end consumer focus, we enable OEMs to create unique, customizable interiors faster. For instance, our Hybrid Cross-Car Beam (CCB) standardizes the structural architecture while allowing full cockpit personalization, reducing timeto-market by up to 80% on second programs. Digital tools and AI also accelerate design, simulation, and validation, helping OEMs stay competitive and innovative.

How does FORVIA Interiors' 20-year presence and deep integration in China uniquely position it to support Chinese OEMs in expanding globally?"

Thorsten MUSCHAL

With 20 years of experience in China, FORVIA Interiors is more than a global player—we're a deeply embedded partner in the Chinese automotive ecosystem. With 5,000+ employees, 16 plants, and 2 R&D centers, we have grown alongside Chinese OEMs and earned their trust. We design innovative, sustainable interior solutions tailored to local needs, with a strong end consumer focus. By combining our global footprint, local supply chains, and deep knowledge of both Chinese and global markets, we help Chinese automakers expand efficiently worldwide. Our understanding of international standards and consumer expectations also ensures their interiors are ready for every market they enter.

DID YOU KNOW?

FORVIA Interiors is celebrating 20 years in China this year. Happy anniversary to our 5,000+ employees and to the customers we proudly serve every day.

2-WHEELER DEMO FOR PREMIUM MICROMOBILITY

FORVIA is already a trusted partner in the two-wheeler segment, working with leading global customers. Our solutions showcased at AutoShanghai 2025 redefine premium micro-mobility for modern, tech-savvy consumers.

- Affordability: high standard, Integrated and, modular technologies reduce system complexity and manufacturing costs without compromising quality.
 - Exhaust system & frame: Best-in-class manufacturing and quality processes, optimized from automotive to 2-wheelers. The streamlined production approach ensures competitive pricing without compromising on quality or performance.
- Desirability: Engaging user-interface, Seamless rider experience through features like real-time connectivity, smart displays, and energy-efficient lighting.

- Sustainability: Lightweight design, energyoptimized components, and OTA updates that extend product life and reduce waste
 - Sustainable materials: Lightweight, ecofriendly materials with advanced textures and colors seamlessly match the vehicle's design. Energy efficiency and CO₂ reduction: FORVIA's focus on lightweight components and efficient energy management aligns with our global sustainability goals.
- Modularity
 - Scalable and upgradable: Modular motor controllers and field-upgradable software keep vehicles adaptable to future demands.
 - Customer-centric features: Personalization options such as customizable lighting and companion apps prioritize user satisfaction.

Connectivity

- Smart Cluster Display: Real-time data visualization with customizable rider interface. Equipped with an OLED-based smart cluster display, the vehicle provides a premium, stateof-the-art user interface. It acts as a central dashboard, enabling smartphone connectivity for seamless call notifications, music control, and other features, enhancing convenience and safety.
- Connectivity Solutions on advanced navigation and safety feature: GPS tracking, geofencing, theft alerts, and Over-the-Air (OTA) updates for continuous feature enhancement for drivers, such as keep their vehicles up to date without the need for a garage visit, ensuring access to the latest features and enhancements; supplying to OEMs in India and Europe.

> Power efficiency

- Motor Controller: Field-upgradable architecture providing optimized torque and performance across variable terrains. The scalable motor controller supports outputs ranging from 1 kW to over 5 kW and includes overcurrent protection.
- Battery Management System: This lightweight (<300g), single-box solution combines cell monitoring, a high-voltage current unit, and ECU intelligence for exceptional performance, scalable system ensuring battery performance, thermal management and efficiency.
- Power Electronics 2-in-1 PowerBox: Combining the DC-DC converter and onboard charger, this innovative solution reduces the system's form factor by 15%, offering efficient power conversion in a compact design.
- Safety
 - LED Lighting: ISO-certified lighting system offering safety and customizable visual aesthetics, offering a significant upgrade from conventional lighting
 - **Safety features**: Overcurrent protection and ASIL-B-certified components ensure compliance with global standards, providing reliability and peace of mind.

FORVIA

FORVIA by numbers

FORVIA

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