

# DVN REPORT

SEPTEMBER 2025

IAA 2025  
MUNICH  
SEMESTER CAR RELEASE



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- **Paul-Henri Matha**

He joined Renault in 2000 and the lighting department in 2004.

Lighting Project Manager on Mégane 2 and 3 from 2004 to 2009, Head of Pre-Development and Innovation from 2009 to 2012, Manager of the Lighting and seating department in Bucharest for the Dacia range from 2012 to 2015, then Expert lighting of Renault since August 2015.

He joined Volvo in 2018 as an expert on lighting, and In August 2023, he joined DVN and since August 2024 he is the CEO of DVN.

### About Driving Vision News

DVN is the vehicle lighting; ADAS; lidar, and interior world's journal of record, dedicated to keeping the community informed and communicating about the latest progress and developments. DVN's three pillars are:

- **Technological watch** on new emerging technologies, with weekly electronic newsletters bringing news, analysis, and crucial information on innovation in lighting, ADAS, lidar, and car interiors; there are also monthly technical reports with sharp focus on cutting edge technologies, company profiles, regulatory matters, and other relevant content available only from DVN
- **Networking** of high-level decisionmakers, researchers, innovators, practitioners, academics, and regulators to make new business connections with two workshops per year in rotating locations throughout America; Europe; China; Japan; India, and Korea. DVN Workshops are very popular, and routinely fill to capacity with over 300 participants.
- **Promotion of innovations** from DVN's 240 member companies—we facilitate the promulgation of knowledge of innovation, which in turn paves the way for commercialisation, enabling to build new relationships through DVN Community to forge new business worldwide. The DVN Gold membership roster includes 240 companies including automakers; lighting, interior, lidar and ADAS tier-1 and -2 suppliers, and a wide variety of universities; research outfits, and consultants. DVN Gold members receive all publications and attendance privileges at all DVN Workshops.

# IAA Summit

The IAA Summit is the core of IAA MOBILITY, bringing together global leaders to shape the future of mobility. Held at Messe München, it's a B2B platform for innovation, collaboration, and strategy. It kicks off with Press Day, featuring major unveilings and announcements. Beyond cars, it focuses on electrification, autonomous tech, and smart infrastructure. Over 500 speakers and hundreds of exhibitors drive dialogue and showcase solutions. This year highlights sustainability, digital transformation, and new business models. Amid rising competition—especially from Chinese EV makers—the stakes are high. The Summit is where vision meets reality for the mobility industry worldwide.



# IAA Open Space

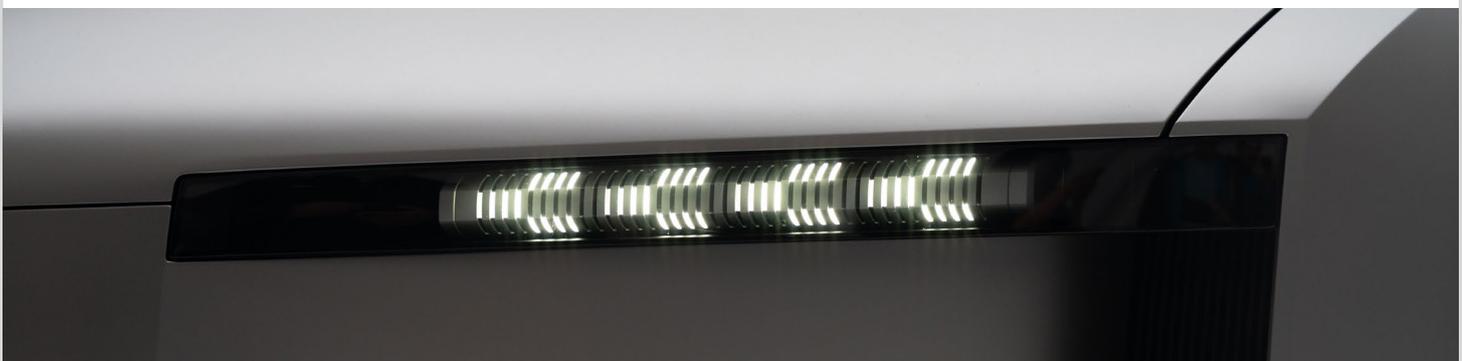
The IAA Open Space transforms Munich's city center into a massive stage for mobility. It's a public experience zone where brands connect directly with visitors and citizens. Open to everyone, it blends innovation, entertainment, and education. Here, people can test drive EVs, explore concepts, and engage with new technologies. Major automotive brands showcase their latest models and sustainable solutions. It creates a vibrant festival atmosphere, uniting mobility and urban life. Discussions and workshops bring future mobility topics to the public. The Open Space is where ideas inspire and communities get involved.



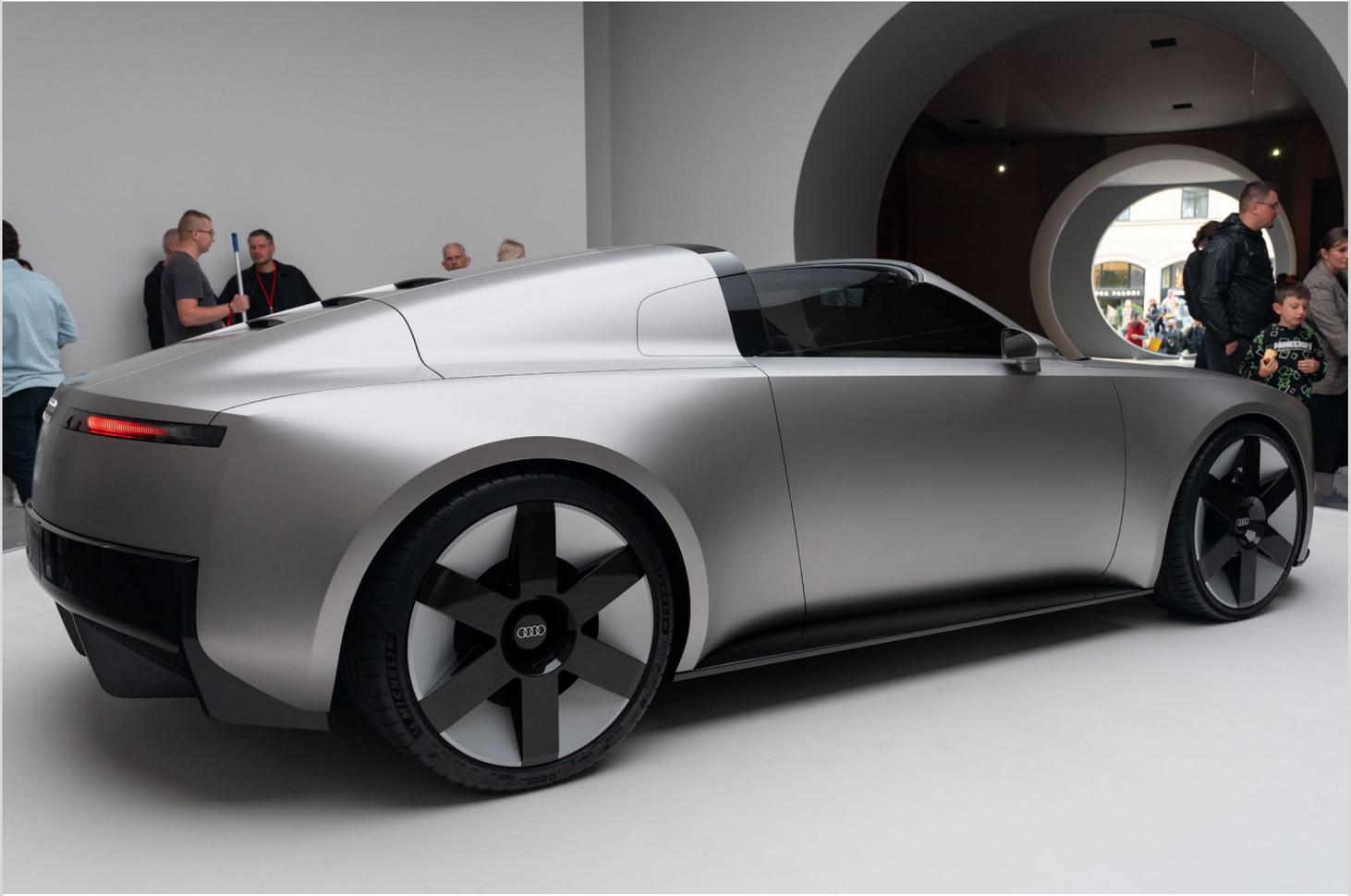
## Audi Concept C Concept

Manifestation of a new design philosophy for the Ingolstadt brand in a special booth within Munich city, best of the show for the scenery and setup.

The vertical frame forms the center of the new front, from which the entire structural volume of the vehicle develops; it introduces a new light signature featuring four horizontally arranged elements in each headlight and rear light. This design element will define Audi's visual identity during both day and night, ensuring an unmistakable presence on the road.



At the back, tail lamps are animated in a clever way thanks to stripes which can give different signatures and function.





## Audi Q3

The front of the compact SUV features digital Matrix LED headlights that use the micro-LED module for the first time in the Audi Q3. The use of this micro-LED technology improves illumination significantly and thus ensures a strong contrast on the road. The light guidance functions are now much more closely linked to the driver assistance functions. The digital daytime running lights with LED technology, consisting of 23 segments per side, create distinctive light signatures that make the vehicle easily recognizable on the road.



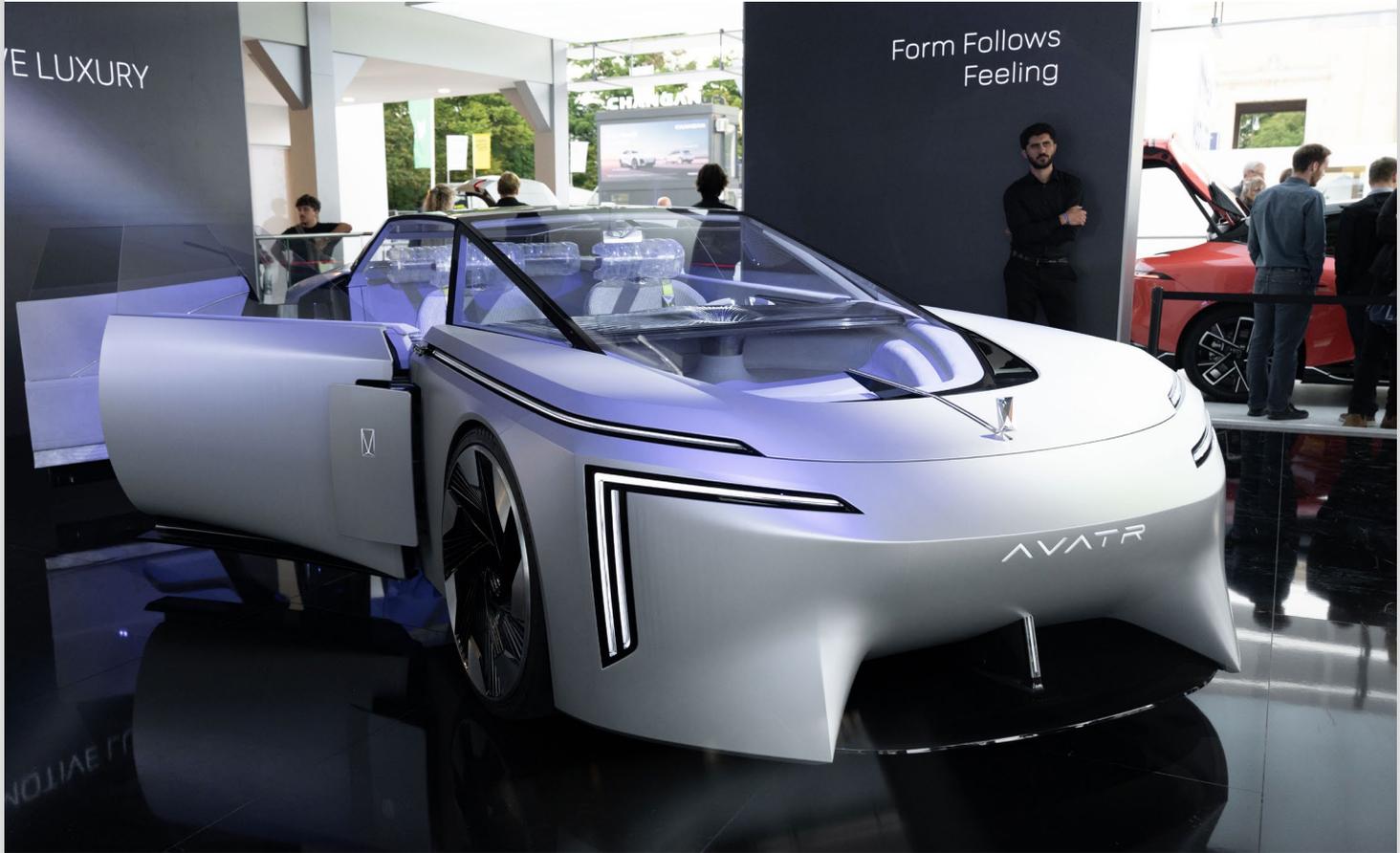
The rear section is adorned with optional digital OLED rear lights, complemented by a continuous LED light strip and the illuminated rings. This level of lighting technology offered in the new Audi Q3 is available for the first time in the Audi compact segment.



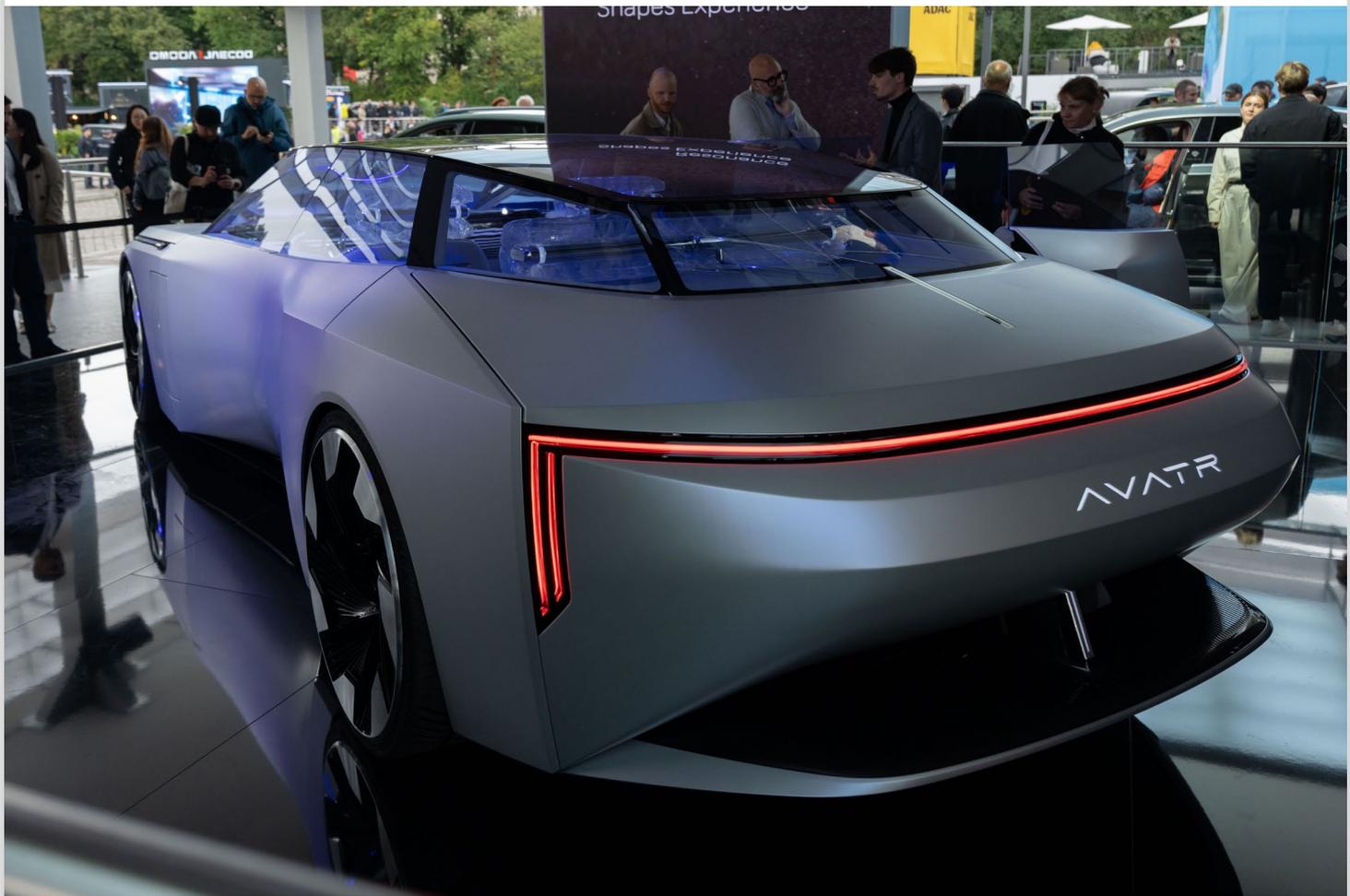
## AVATR Futuristic Xpectra

Major technological advances always offer an opportunity to introduce more significant design changes.

The front is highlighted by the double stacked signature of Avatr and a lighting key feature with a stripe of light going toward the side.



At the back a full width signature is giving a luxury feeling





## BMW iX3

Major technological advances always offer an opportunity to introduce more significant design changes.

The BMW kidneys and twin headlights - both distinctive BMW design cues - take centre stage visually. The sculpted BMW kidneys reference the Neue Klasse of the 1960s in their vertical arrangement. An all-new light signature assumes the role previously performed by chrome in giving the car an aura of quality and sophistication.

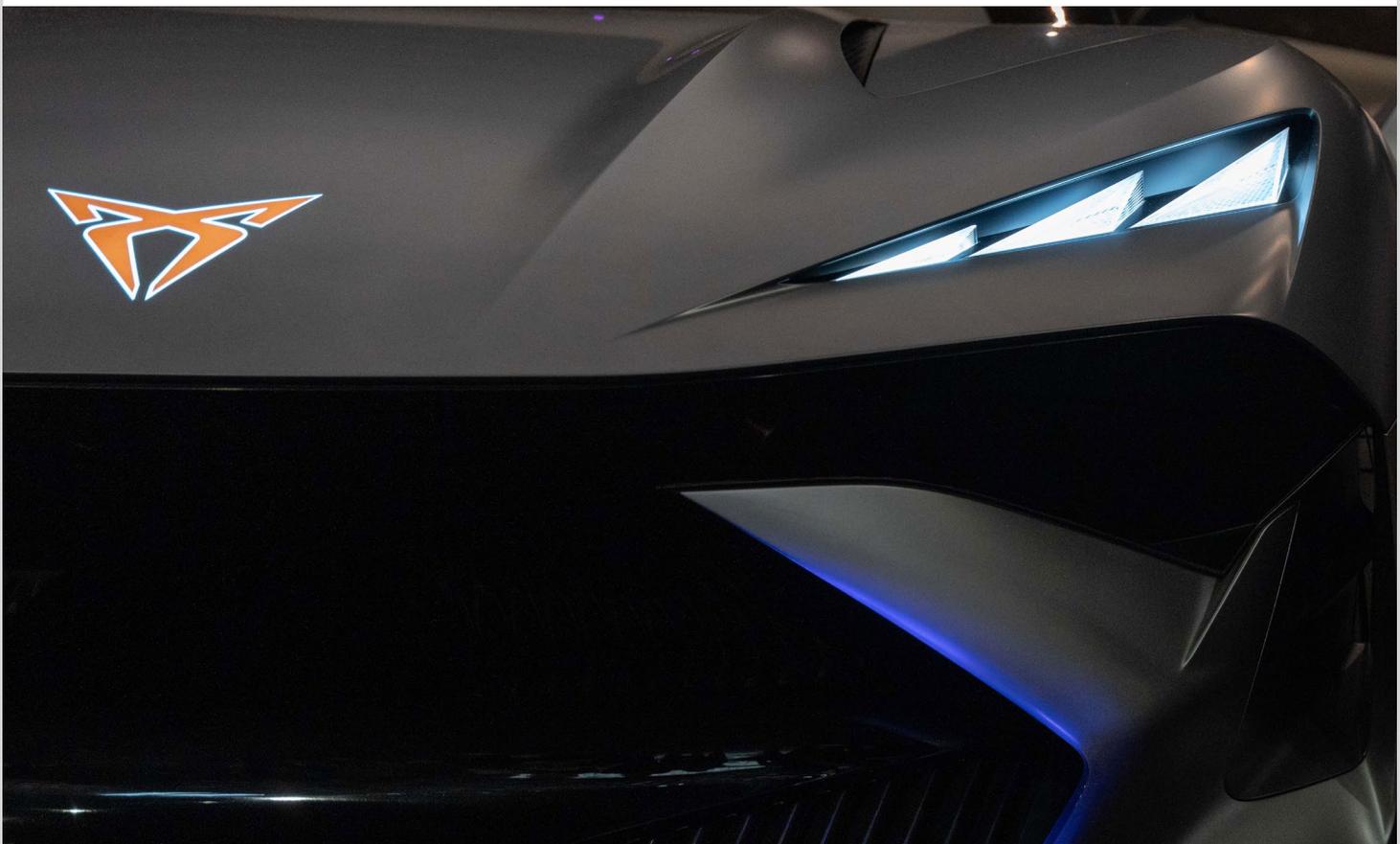


The rear end also cuts a powerful and athletic figure. The taillights extending well into the centre of the rear end represent a horizontal interpretation of the signature BMW «L» shape.



## Cupra Tindaya Concept

Everything begins and ends with the illumination of the CUPRA logo. It represents the soul of the car. The logo ignites the spark of life in the 'front black mask', becoming humanised, alive. The light expands, through the front, toward the side, to the beat of a living breath, forming the pupil of the Tindaya's eyes through three triangles, like the vehicle is awakening.



Emphasised by the advanced technology, the rear lights float, with sharply cut shapes and a sculpted triangular cut-out housing an inner light source.

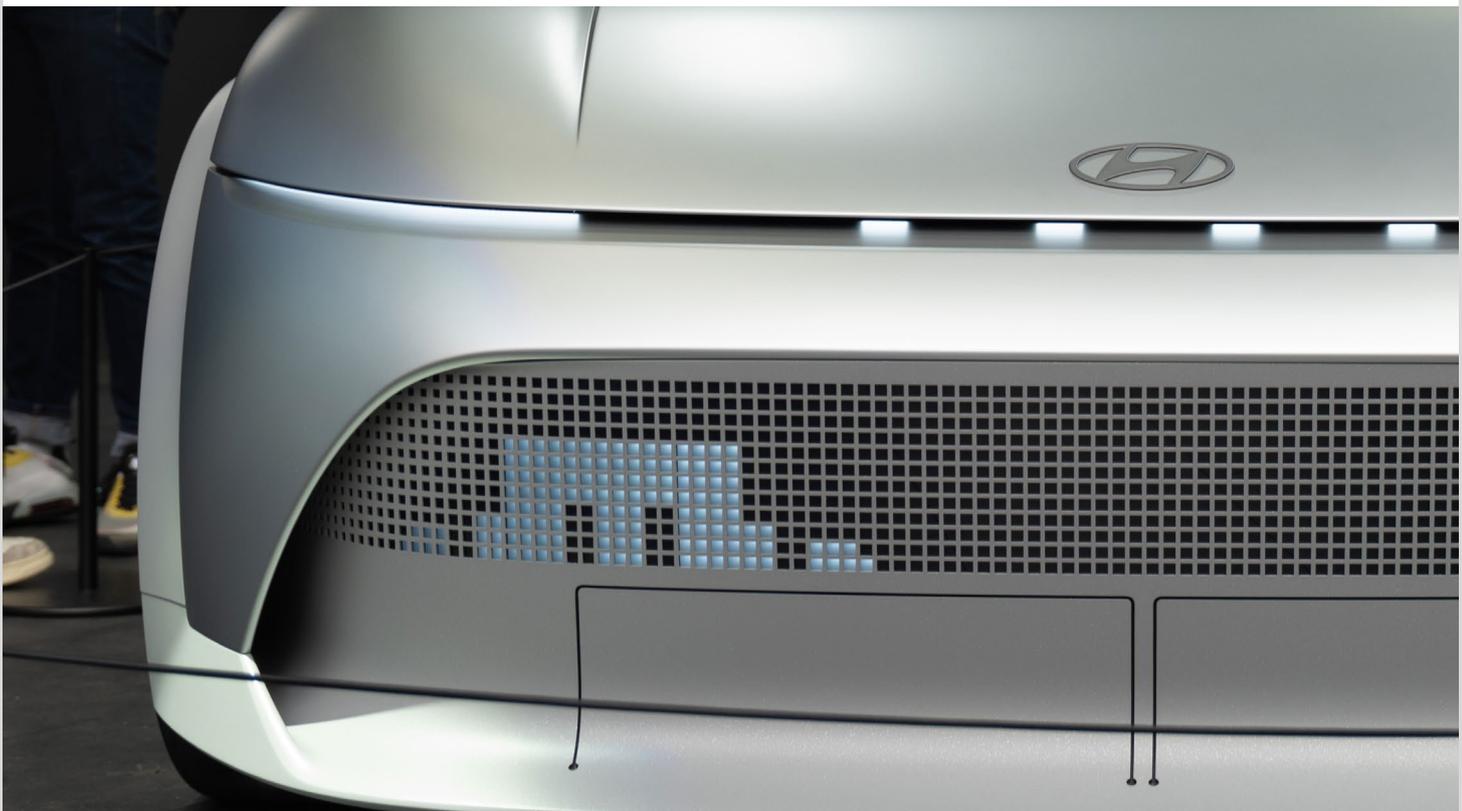
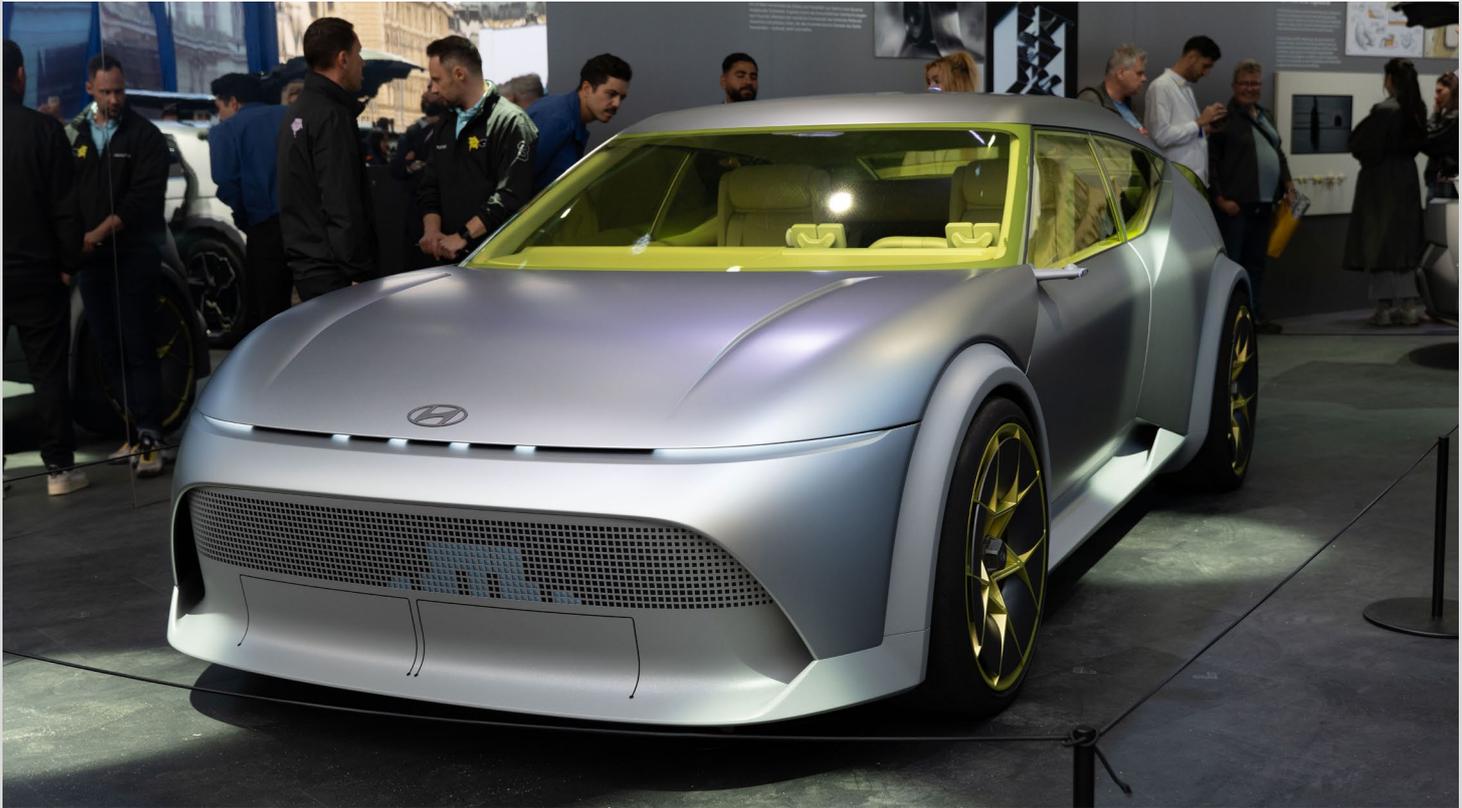




## Hyundai Ioniq Three Concept

Hyundai Motor anticipates the introduction of Concept THREE to set the tone for its next chapter of design innovation and strengthen its competitive position in the electrification journey.

A symbolic character integrated throughout the car evokes curiosity, joy and emotional connection, offering playful storytelling through 'hidden surprises' and interactive design elements. Parametric Pixel lightings are featured on both front and rear of the Concept THREE. The pixels are now more expressive, forming a gradient that adds depth and visual rhythm to the overall design.



The tail lamps are composed of a full extruded rectangle matrix composition, being able to switch between signature or communication, and give a state of art lighting refinement





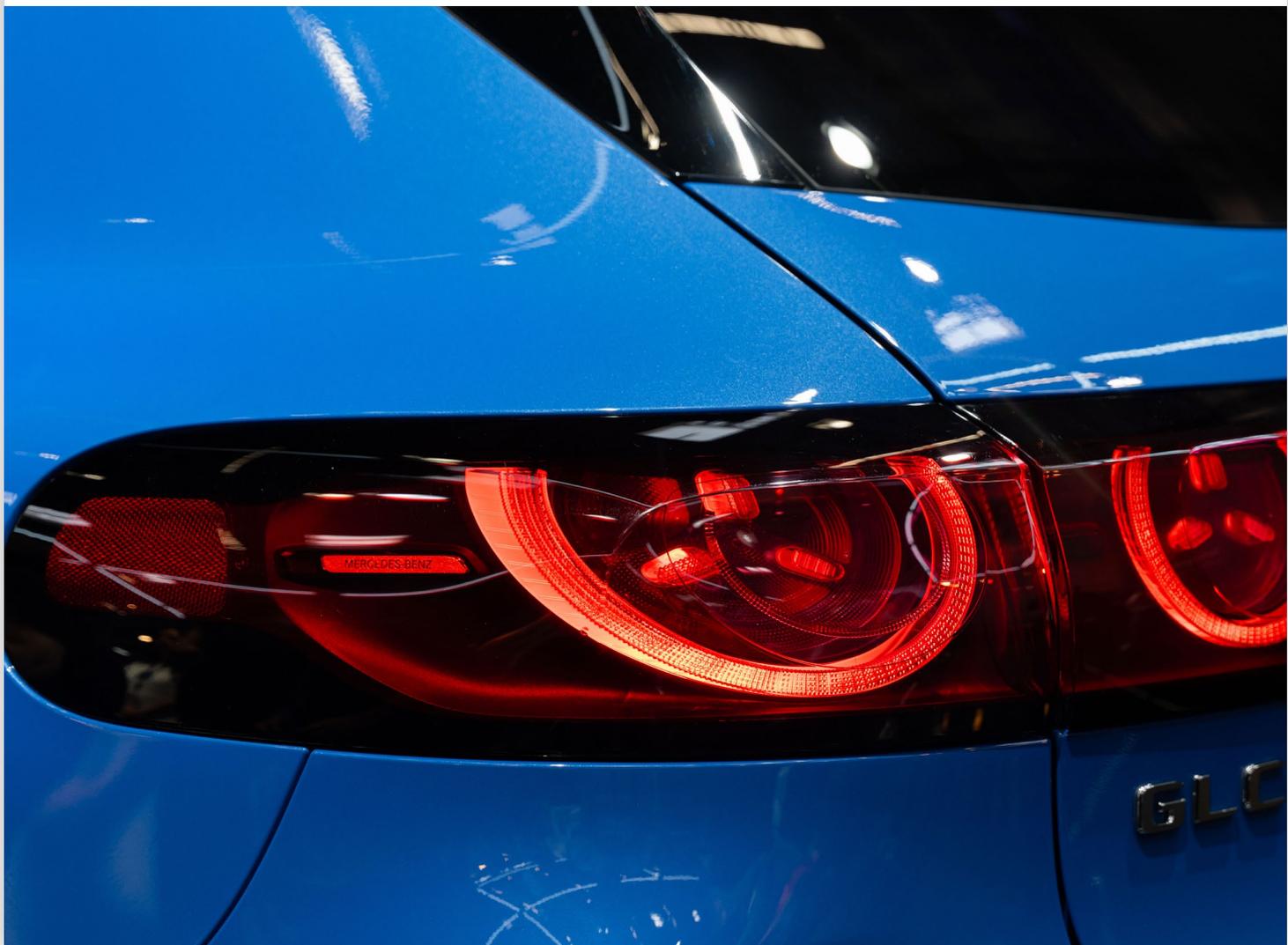
## Mercedes-Benz GLC EV

The new GLC continues the timeless proportions of the Mercedes-Benz midsize SUV with a thoroughly modern twist.

An illuminated version is available as an option, featuring a total of 942 polycarbonate backlit dots. This optional high-tech pixel graphic can even be animated and brings the GLC to life. Additionally, the central star and the integrated surrounding contour of the iconic grille are illuminated. Depending on country-specific regulations, the central star is also partially or fully illuminated. The standard full-LED headlights - DIGITAL LIGHT is available as an option - are integrated harmoniously into the front design. The iconic star logo and the «visor» look of the daytime running lights, marker lights and indicators impressively emphasise the design, day or night.



The rear view is characterised by its innovative two-part lights. Their captivating star motif catches the eye both day and night. As an option, in conjunction with the illuminated grille, these lights will animate when the vehicle is unlocked or charging.





## Polestar 5

Faithfully developing the conceptual Precept into production with minimal changes, the Polestar Design team has created dual blade headlights complete with Pixel LED technology as standard. The dual headlamps are composed of L shape DRL at the front and two nicely designed technical DRL sitting above each other, the lower area is composed of two modules for the main function.



At the rear a full width stripes is nicely integrated almost like a body extrusion, giving strong aerodynamic features and brand DNA'





## Renault Clio VI

Entirely redesigned, the new sixth generation Renault Clio is above all peppy, boasting a completely new distinctive style that reflects the brand's modern approach to design and tech. Clearly the most interesting headlamps of the IAA, the new light signature, with the large daytime running lights recalling the diamond of the logo, is completed by the resolute expression created by the projector headlights set in a black housing.



The tail lamps are also featuring the brand DNA : the diamond shape  
They are divided in 3 parts : Signature, function and reverse and integrated in a 3D black housing





## VW ID.Cross Concept

The ID.CROSS Concept, in Urban Jungle green, reflects a new, clear and likeable design language. Positive personality is immediately recognisable in areas such as the front and rear. With their graphics and 3D light signature, they give the impression that the car is 'smiling'. Andreas Mindt adds: «A Volkswagen must be likeable, unmistakable and inspiring with its character.'



The rear lights are a nicely extruded rounded rectangle for the main signature, with an illuminated logo integrated within a piano black stripe.



# SEMESTER

## NEW CAR RELEASE

Since 2025, the global automotive industry has seen a rapid evolution in vehicle lighting design, marking a new era where light is no longer just functional but a defining feature of mobility.

Headlighting systems are becoming slimmer, more complex, and more adaptive, with multi-layered designs that integrate seamlessly into the front fascia. Thin, sharp LED daytime running lights are increasingly used to create distinctive signatures recognizable at a glance.

Front-end designs now incorporate illuminated elements within grilles and body panels, merging aesthetic expression with advanced technology. Adaptive pixel lighting enables precise beam shaping, projecting symbols and patterns on the road to improve safety and communication.

At the rear, full-width light bars are now a dominant theme across segments, enhancing visual stability and vehicle width. These light bars are no longer static—they feature animated sequences that signal vehicle status, from welcome and farewell signatures to driving mode indicators.

Illuminated brand elements, such as scripted lettering and glowing emblems, are replacing traditional static badges, creating new opportunities for brand identity through light.

The shift to electrification has enabled cleaner vehicle architectures, freeing designers to integrate hidden or seamless lighting solutions that only reveal themselves when illuminated. This has led to sculpted surfaces and uninterrupted lines that reinforce aerodynamic efficiency and futuristic aesthetics.

Lighting is increasingly becoming a communication interface, with vehicles capable of sending visual cues to pedestrians, cyclists, and other drivers through exterior light animations.

Interior lighting has followed this trajectory, evolving into a highly customizable environment where ambient light adapts to mood, driving conditions, and even biometric inputs.

These developments reflect a broader trend: lighting is now a central pillar of vehicle design strategy, influencing both safety regulations and consumer expectations.

Since 2025, vehicles have effectively become dynamic light sculptures on wheels, blending innovation, artistry, and technology to define the next generation of mobility.

## Alpine A390

The A390 is the second model in Alpine's Dream Garage, following the A290 and preceding the future A110, which will also be 100% electric.

The feature in its unique lighting signature. At the front, a cluster of illuminated triangles called 'Cosmic Dust' evokes a comet piercing the atmosphere. When the driver approaches the vehicle, they come to life in a welcome sequence. A projection of the Alpine logo surrounded by snowflakes is also directed sideways at ground level.



At the rear, fragmented triangles frame a backlit Alpine logo in complete lettering. Lastly, the thin light bars at the front and rear, which seem to slice through the air like a blade, evoke a sense of lightness.





## Audi Q3

The Audi Q3 has been a well-established bestseller in the premium compact segment for more than ten years. Now the third generation is setting new standards in several respects.

The front of the compact SUV features digital Matrix LED headlights that use the micro-LED module for the first time in the Audi Q3. The use of this micro-LED technology improves illumination significantly and thus ensures a strong contrast on the road. The light guidance functions are now much more closely linked to the driver assistance functions.

The digital daytime running lights with LED technology, consisting of 23 segments per side, create distinctive light signatures that make the vehicle easily recognizable on the road.



The rear also features a clear design. Separated from the two-part rear lights, the precisely drawn narrow light strip cuts sharply across the entire width of the vehicle, giving the rear a clean look.





## Audi Q5

With the new Q5, Audi underlines its role in advancing lighting design and technology. Depending on equipment, drivers can personalize their Q5 with up to eight digital light signatures in the redesigned daytime running lights of the available Matrix-Design LED headlights, and in the digital OLED taillights.



The rear lights now have a three-dimensional design, bringing the physical and digital worlds together in combination with the light strip, which spans the entire width of the vehicle. Strikingly designed second-generation digital OLED taillights are available, and a new projection light in the spoiler above the rear window on Q5 Sportback and SQ5 models delivers increased visibility by projecting into the upper rear window area, thereby enlarging the Center High Mount Stop Light area.





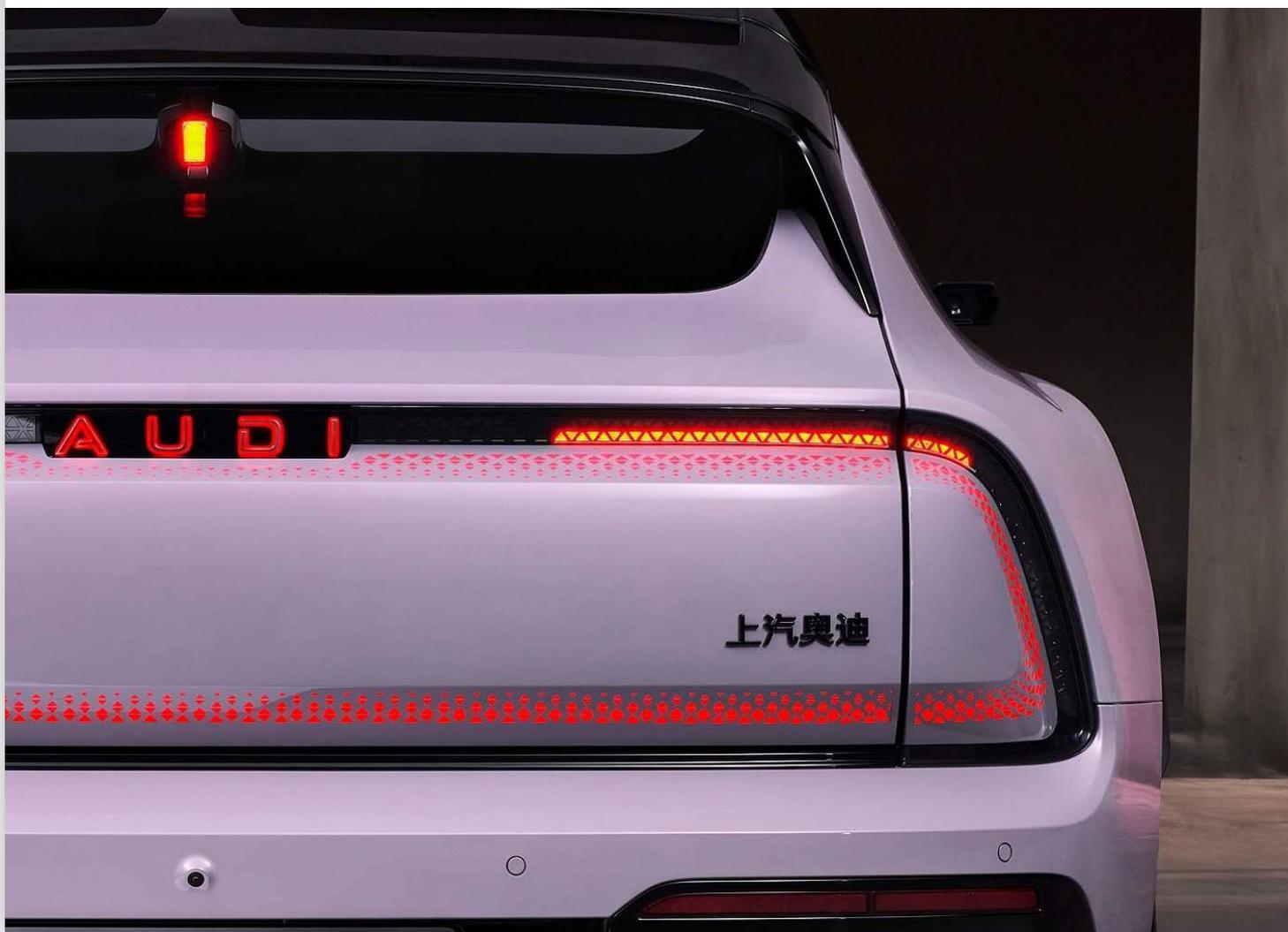
## Audi E5 Sportback

Marking the beginning of a new chapter for Audi's premium New Energy Vehicle brand AUDI: the first production model - the AUDI E5 Sportback - made its debut at the Volkswagen Group Media Night ahead of Auto Shanghai 2025.

Emphasizing the car's minimalist ethos, the slim headlights and functional modules are invisibly integrated in the sleek black loop. Further balancing subtlety and spectacle, position lights remain hidden when inactive, only providing a mesmerizing glow. When activated, more than 1,000 individual light units integrate triangular light sources to form the distinctive AUDI Light Frame - a signature element that blends warmth with engineering precision.



At the back, a full-framed light is surrounded by on-skin illuminated pattern, shaped from a triangle form creating a fading signature





## Audi A5

Is opening the next chapter in its successful history in the mid-size segment with the new A5 family. The Audi A5 family offers digital daytime running lights with LED technology at the front and second-generation digital OLED rear lights at the rear. With around 60 segments per digital OLED panel, they are increasingly becoming a display at the rear of the vehicle on the A5.



The headlights and rear lights are three dimensionally designed, offer optional digital light signatures, and thus bring the physical and digital worlds together.



## Buick Electra GS Concept

Buick unveiled the Electra GS concept, a bold reimagining of electric luxury that merges sculptural dynamism with intelligent innovation.

The headlights modules are placed underneath the double line signature, without lens glass in front, at the back the tail lamps are integrated in the air outtake.





## BMW iX

The BMW iX was designed for all-electric premium mobility.

The particularly slim adaptive LED headlights are another characteristic design feature of the new BMW iX. They now feature the brand's hallmark four-eyed face in the form of vertical, slightly slanted LED units for the daytime running lights and turn indicators. A Frozen Grey stripe pattern on the headlamp covers is a standard feature, echoing the structure of the BMW radiator grille and ensuring that the light sources are set off to great effect.



At the back, L shaped 3D rear lights are included within the tailgate.





## BMW Speedtop concept

At the 2025 Concorso d'Eleganza Villa d'Este, the renowned celebration of historic vehicles on the shores of Lake Como in Italy, the BMW Group is presenting an exclusive new concept car that will subsequently be made available for purchase in a small series.

Both front and rear are featuring ultra sleek lighting, integrated in the body panel, the front DNA is composed of two iconic chicane.



## BYD SEAL 06 EV

The launch of the BYD Seal 06 EV which is the chinese competitor of the Model 3 is offering a double a great lighting, with chicane signature front, and a full width tail-lamps.

The car is on sale in china for 120 000 yuans (15 000 euros).





## Chevrolet Corvette UK Concept

General Motors has expanded its global design studio footprint with the official opening of a new advanced design studio in Royal Leamington Spa, about 20 miles from Birmingham.

Inspired by the iconic 'split window' 1963 Chevrolet Corvette Sting Ray, the design team also created simple and bold front signature.



At the back, floating tail lamps integrated in the spoiler are nicely integrated in the aerodynamic elements.





CITROËN

## Citroën C5 Aircross II

With the launch of the new C5 Aircross, Citroën has completed the complete renewal of its range in less than two years.

The front end expresses strength and fluidity, Citroën's new 3-point light signature is interpreted here with particularly slender horizontal segments, underlining the elegance of the front end and reinforcing the car's expression of width. The Citroën Matrix LED headlamps are linked by a chic, discreet gloss black strip.



A streamlined rear end. In a nod to the front end, the rear of the C5 Aircross features a sophisticated horizontal gloss black fascia with 3 stripe signature, featuring a great 3D look on the outer edge





## DS n8

Inspired by the DS AERO SPORT LOUNGE concept, DS N°8 demonstrates a progressive approach to great French coachbuilding.

At the front, DS N°8 embraces an advanced and appealing light signature. The DS LUMINASCREEN



The rear lamps are divided in small diamonds shapes, with a vertical DRL for the signature.



## Dongfeng Nammi 06

Dongfeng unveils compact electric crossover Nammi 06.

The full width front black panel is featuring two vertical headlamps with the DRL's on the outside and the main function in the black part.

For the rear, an interesting faded pattern is linked to the full width stripe.



## Fiat Grande Panda

The Grande Panda marks FIAT's return to the global mainstream market. It has been developed based on 3 pillars: Italian design, global platform and local relevance.

Striking front thanks to a 'digital like' front grille and a bold X signature giving a clear message

At the back, the same signature is integrated vertically





## Ferrari F80

Ferrari unveiled the F80 and wrote a new chapter in the history of legendary supercars bearing the Prancing Horse badge.

The headlight are integrated in a 80's look full vizor.



The short-tail rear of the car has two different configurations during use: with the mobile wing stowed or deployed. The tail lights are set into a two-layer structure consisting of the tail fascia and the spoiler, creating a sandwich effect that gives the rear an extremely sporty character in both configurations.





## Ferrari Amalfi

The car's design stems from a fluid and minimalist approach. The refresh front is featuring the new design language of the brand, with an extruded 3D lens and a single bar DRL



The tail lights are hidden within essential graphic cuts, evoking classic Ferraris while using a modern visual language, the signature is composed of two bar.



## Geely Galaxy A7

Geely Galaxy A7 is an all-new new energy family sedan, designed to fully meet users' expectations for space, comfort, functionality, and emotional engagement. By blending modern design with profound Chinese wisdom, it redefines the benchmarks for mid-size family sedans.

The lighting design draws on natural imagery: the headlights are inspired by the gentle ripples of West Lake under moonlight, while the taillights symbolize the rising sun, creating a harmonious and poetic visual narrative. Utilizing laser engraving and multi-layer structures, the lighting system not only delivers high-quality illumination but also enhances brand recognition.



At the back, a full stripe with a lot of technical aspects and different layers of reading.



## Geely Galaxy M9

On May 22, 2025, Geely Galaxy's all-new six - seat SUV, the Galaxy M9, made its global debut in Milan. Previously shown last year as a concept with our newsletter of Beijing Motorshow, the car is now re-released with its galaxy central bar composed of squares of lighting giving a premium look. The main functions are delivered with 3 modules placed underneath the lightbar.



At the back, a nicely detailed and full width bar composed of galaxy pattern to follow the same DNA' as the front and 'L' shaped tail lamp for the main functions



## BYD Seal 06 GT

Geely Galaxy High-Tech Hard-core SUV - Galaxy Cruiser made its debut at 2025 Shanghai International Autoshow.

The bands says that the front design captures the essence of the Chinese lion, exuding courage and boldness, perfectly blending Eastern spirit with rugged style and headlights inspired by compass and navigation instruments.



The taillamps are vertical, divided in 3 stages with the modules in the lower area.



## Hyundai Palisade

Hyundai's all-new 2026 Palisade three-row SUV made its North American debut at the 2025 New York International Auto Show.

The front presents a distinctive vertical LED daytime running light graphic and a horizontal center positioning light signature, conveying a wider stance while highlighting the bold grille



## Hyundai Nexo

Hyundai Motor Company today introduced the all-new NEXO fuel cell electric vehicle (FCEV), a cutting-edge mid-size SUV, at its global launch event at the Seoul Mobility Show in Korea.



## Hyundai Ioniq 9

IONIQ 9's front-end design features Parametric Pixels integrated into the LED light units and lower fascia, creating a unique and sophisticated image.

Exterior lighting aligns with Hyundai's other EV models, featuring IONIQ signature Parametric Pixel lamps with small cube projection headlights and an intelligent front-lighting system (IFS) to support improved vision and driving safety while preventing glare to oncoming vehicles.



The rear features a full LED combination lamp. For enhanced visibility, the outside door handles feature indirect lighting.





## IM Motors L6

IM Motors, which is part of SAIC corp launched the updated IM L6, the headlights are composed of a module in the middle of a 'L'.

But the interesting feature is the communicative panel at the back underneath the DRL.



## Lexus ES

The all-new 2026 Lexus ES was unveiled at the 2025 Shanghai International Automobile Industry Exhibition, introducing an eighth generation of the global luxury sedan.

The Lexus ES features a new design icon for the next generation, Twin L-Signature Lamps. The inward-facing daytime running lights and outward-facing turn signals form a double signature that enhances Lexus' unique identity while also improving the visual clarity and functionality of the turn indicators.



The rear features a new Rear L-Signature Lamp, making it instantly recognizable as a Lexus. Seamlessly integrated with the illuminated Lexus logo, the single light bar consolidates taillight and stoplight functions, while repositioning other lighting elements to the outer edges.





## Mercedes-Benz Vision V concept

The introduction of the modular, flexible and scalable Van Electric Architecture (VAN.EA) will usher in a new era starting in 2026.

The LED lighting, visible from every angle, emphasises the proportions of the vehicle and gives it more movement, life and elegant sophistication.

The striking front is characterised by a newly interpreted chrome radiator grille. It has three horizontal illuminated glass louvres. Almost 200 of these technical-looking light elements also surround the chrome frame. In a pronounced open body gap below the bonnet, there are a further 190 or so illuminated louvres.



The large rear window is framed by over 450 three-dimensional illuminated louvres which serve as taillights and brake lights.





## Mercedes-Benz AMG GT XX

The CONCEPT AMG GT XX is a pioneering technology programme.

The slender, rectangular auxiliary headlights are recessed into the outer edges of the grille. The vertically arranged main headlights set innovative accents with low beam and high beam stacked one on top of the other.



The dynamic rear end, with its sharply angled aerodynamic edge and six circular, deep red taillights, forms a unique vehicle identity. The lights and the centrally positioned MBUX Fluid Light Panel are each framed by an elongated recess with conical sidewalls to create a particularly impressive sense of depth.



## Nissan Leaf

The all-new Nissan LEAF marks a defining next step in the evolution of the iconic car that started it all. The front DNA' is merging lighting and front mask, with a black stripe going all around and the main function located in the higher area, then a fading pattern is closing the signature on the outer edges.



3D lamps technology at the back integrated within a black panel, the signature is composed of rounded rectangle both in horizontal and vertical position



## Nissan Micra EV

The all-new, sixth-generation Nissan MICRA will return to the B-segment in 2025 as a fully-connected, pure EV with an audacious new look.

Iconic headlamps greet the driver, protruding slightly from the clean inclined surface angling up from the numberplate to the hood. On unlocking the car, the lights perform a short choreographed «welcome wink» where the front lights pulse from left to right and then right to left. At the rear, the taillamps are defined by a simple but ornate LED light design - boasting circular lighting elements.



The rear of the Micra is using the same signature as the front, striking circular lighting.





RENAULT

## Renault Turbo 3E

Renault 5 Turbo 3E reboots the iconic heritage of the Renault 5 Turbo and Turbo 2 of the 1980, two speed demons that made their mark on their times, by their already exuberant character and innovative spirit, and with their impressive rallying performance.

The front is inspired by the Turbo 2, with two simple modules as the main function, and a square of line underneath.

At the rear a nicely carry-over from the R5 with a wide bodykit.





## Skoda Octavia

The refresh of the fourth modern Octavia generation includes a new second-generation LED Matrix beam headlights.

The basic headlights now use only LED technology as standard. The second-generation LED Matrix beam headlights are available as an option for the Selection and Sportline trim levels. While the outer bi-LED module is used for the low and high beam, the inner module has 36 individual matrix segments in two rows. This makes for even better illumination, while oncoming drivers are shielded even more effectively when the high beam is switched on. Fog lights have been replaced by an all-weather function automatically adapting the light output to the respective weather conditions.



The LED rear lights - included as standard - are available in two versions. The basic variant, using only LED sources for all its functions, will come with the Essence and Selection trim levels.

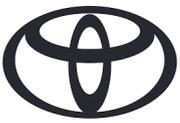


## Slate Truck EV

Slate is a new American company founded on a disruptive business model of simplifying the manufacturing process and removing unnecessary content to reduce cost and increase reliability.

The front and rear light are following the brand DNA' with simple tech but greater looks thanks to a simple and bold 'dots' signature.





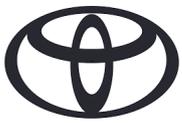
## Toyota RAV4

Toyota unveiled the robust all-new sixth-generation RAV4, building on the legacy of its iconic, trailblazing predecessors by introducing advanced technologies that redefine performance and efficiency whilst pioneering new standards for safety and the digital user experience.

The strong front lighting design express robust off-road credentials and a true RAV4 identity with it's module placed in between a double claw DRL.

At the back, a clean light bar divided in thin stripes linked to the tail-gate.





## Toyota Corolla Cross

The new Toyota Corolla Cross combines advanced technology, hybrid efficiency and a modern design with an authentic SUV character.



New adaptive high beam (AHS) technology on the High grade ensures optimum visibility while an LED light guide on the centre lamp and inner lens evenly illuminates the full surface and creates a striking, high-quality appearance. Redesigned rear lamps feature fins, which contribute to the vehicle's stability and control by improving aerodynamic performance.



## Xiaomi YU7

The Ferrari 12Cilindri is inspired by the legendary grand tourers of the 1950s and '60s. The front has thus lost certain signature elements, such as the elongated form of the headlights and the traditional grille shape, in favour of geometries and intersections innate to the car's design. The headlights are integrated into a single wraparound band from which the DRLs emerge like blades—there is no full-width light band, nor a lit logo.



Consistent with the front of the car, the double-dash taillights are set into a blade that traverses the entire, concave rear section and also provides what is possibly the Ferrari 12Cilindri's real signature theme.



## DVN ecosystem and scientific community

DVN is a reference in the world of Lighting, Interior comfort and Lidar

### Car Makers

Audi  
Avatr Technology  
Bentley  
BMW  
Ferrari  
Ford  
Ford Otosan  
General Motors  
Genesis  
Hero MotoCorp  
Honda  
Hyundai  
Jaguar-Land Rover  
Kia  
Lotus cars  
Lucid Motors  
Mazda  
Mercedes-Benz  
Mitsubishi Motors  
Nio  
Nissan  
Renault  
Rivian  
Seat  
Stellantis  
Subaru  
Toyota  
TVS  
SAIC Volkswagen  
Volvo Cars  
Zoox

### System Suppliers and Tier 1s

Adient  
Anrui  
Appotronics  
Aspöck Systems  
Braslux  
Cepton  
Ceres Holographics  
Chongqing Rebo  
Continental  
Creat  
Diode Dynamics  
Elba  
F2J Industry  
Feka  
Fiem Industry  
Flex-N-gate  
FORVIA designLED  
FORVIA HELLA  
GHSP  
Grupo Antolin  
Hascovision  
Hitachi  
Ichikoh  
J.W. Speaker  
Keboda  
Koito  
Lightworks  
Lumax  
Luxit  
Maier

Magna  
Marelli  
Marquardt  
Mind  
Mobileye  
Mobis  
Muth Mirror Systems  
Nordic Lights  
Odelo Farba  
OPmobility  
Panasonic  
Polycontact  
Prettl group  
Rehau  
SL Corporation  
SMR Automotive  
Stanley  
The Lighting Consultants  
Toyota Boshoku  
Uno Minda  
Valeo  
Varroc  
Weidplas CH  
Xingyu  
Zanini  
ZKW  
Zodiac

### Light Source Suppliers

ams OSRAM  
APT Electronics  
Brightek  
Dominant Opto Tech.  
Everlight Electr.  
HC Semitek  
Kyocera SLD Laser  
LG Innotek  
Liteon Technology  
Lumileds  
Nichia  
OLEDWorks  
Refond  
Samsung LED  
Seoul Semiconductor

### Tier 2s and service providers

A2Mac1  
Ascorium  
AML Systems  
Ansys  
ASAP  
ASYST Technologies  
Auer Lighting  
BASF  
Bluebinaries  
Brightview Technologies  
Capgemini  
CLM Search  
Coindu  
Covestro  
Dajac  
DBM Reflex  
Delo

Die haptiker GmbH  
Docter Optics  
Dow  
Edag  
Elmos  
Endego  
Ennostar  
Euro Moulders  
EV Group  
Flow Dry Technology  
Focuslight  
Fusaware  
Grewus  
HJ Optics  
Huawei  
Idemitsu  
Infineon  
Inova Semiconductors  
Instrument Systems  
Integrity  
Joysouquin  
Leonhard Kurz  
L.E.S.S.  
LMT  
Luminus  
Mektec  
Microvision  
Maxell Frontier  
MD Group  
Melexis  
Microchip  
Microrelleus  
Mitsui Chemicals  
Mocom  
Nalux  
NBHX Trim  
Oerlikon  
ON Semiconductor  
Pininfarina  
Polyrise  
Preh  
Ray Group  
S&P Global Mobility  
Sabic  
Schott  
Seaborough  
Seoyoneh-Ewha  
Shihu  
SP3  
Sunny Automotive Optech  
Suzhou Senbo  
Synopsis  
TechnoTeam  
Toshiba lighting  
TQ Technology  
Uni Tooling  
Ventura  
W Research Company LLC  
W.L. Gore & Associates  
WLOPT  
X2F  
Xunchi

### Universities, NGO and labs

Alliance for Automotive Innovation  
ARAI  
*Automotive Research Association of India*  
BMDV  
*Bundesministerium für Digitales und Verkehr*  
CATARC  
*China Automotive Technology and Research Center*  
CEA Leti  
Darmstadt university  
DEKRA  
Department for transport, UK  
DTI  
*Danish Technological Institute*  
DVR  
*Deutscher Verkehrssicherheitsrat - German Road Safety Council*  
Estaca  
*École supérieure des techniques aéronautiques et de construction automobile*  
Fraunhofer (FEP, IAP, ILT, IMS)  
Fudan university  
GTB  
Hannover Leibniz  
Hochschule Aalen  
Hochschule Magdeburg-Stendal  
Icahn School of Medicine at Mount Sinai  
*Light and Health Research Center*  
ICAT  
*International Centre for Automotive Technology*  
Idiada  
Institut d'Optique  
JASIC  
*Japan Automobile Standards Internationalization Center*  
KBA  
*(Kraftfahrt-Bundesamt)*  
KATRI  
*Korea Apparel Testing & Research Institute*  
KIT  
*Karlsruhe Institute of Technology*  
Kotsa  
*Korea Transportation Safety Authority*  
LCOE  
*Laboratorio Central Oficial de Electrotecnia*  
L-LAB  
MLIT  
*Ministry of Land, Infrastructure, Transport and Tourism*  
NHTSA  
*National Highway Traffic Safety Administration*  
OICA  
*International Organization of Motor Vehicle Manufacturers*  
Pacific Northwest National Laboratory  
Phabulous  
RDW  
RISE Research Institutes of Sweden  
Sapphire STS  
SMMT  
*Society of Motor Manufacturers And Traders*  
SMVIC  
*Shanghai Motor Vehicle Inspection Certification*  
TNO  
Traficom  
Transport Canada  
UMTRI  
Université Gustave Eiffel  
UTAC  
VDA  
*Verband der Automobilindustrie*  
VEDECOM  
Vrije Universiteit Brussel  
YoungNam University

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## **Main reports launched in 2008-2020**

Koito company profile  
China lighting market  
The Wonderful World of Passenger Car lighting  
Tier 2 and 3 contribution on automotive lighting  
ZKW company profile  
Simulations in automotive lighting  
Mercedes-Benz profile  
LED technologies in automotive lighting  
LEDs Thermo-Electrics  
Interior Lighting  
BMW and lighting  
Lighting and ADAS  
Materials in lighting  
Laser Head lighting  
Automotive lighting Regulations worldwide  
Israeli Startups  
Jaguar Land Rover and lighting  
Engineering companies involved in lighting  
Japanese lighting market  
Status of w/w Regulations  
Korea Lighting Market  
SL Corp profile  
ADB/Matrix Beam  
India Car Industry and Lighting Market  
Vision of lighting 2025-2030  
Automotive lighting Regulations worldwide  
Vehicle Lighting in USA  
New ADB technologies  
Interior Lighting  
Camera technologies  
Varroc profile  
Volkswagen profile  
US automotive lighting industry  
Materials in Vehicle Lighting  
The Future of Exterior Lighting  
IAA Frankfurt Autoshow  
DVN Munich WS  
GENEVA Autoshow  
US Lighting  
Marelli AL Profile  
50 years Light Styling  
ADAS and Lighting

## **Main reports launched in 2021**

Evolution of LEDs  
New Models July-October  
2020 Audi Lighting & ADAS  
Lighting in development countries  
ADB Update  
DVN Shanghai WS  
Innovations in Rear Lighting  
Global Landscape of Automotive LED Suppliers

## **Reports launched in 2022**

Technologies presented in CES 2022  
Laser light automotive lighting  
ISAL report  
DVN US workshop  
Worldwide Demographic Development Models launched May to August  
DVN Shanghai report  
VISION congress  
Paris Autoshow + last Vehicle models  
L.A. Autoshow

## **Reports launched in 2023**

CES Report  
TU Darmstadt Lighting Institute  
DVN Paris Workshop  
Universities and Lighting  
MLA Technology  
Models launched in H1-2023  
DVN Tokyo Workshop ISAL Report  
DVN US Workshop  
Osram Company Profile  
DVN Shanghai Workshop

## **Reports launched in 2024**

CES  
New cars of the semester  
DVN Munich Workshop  
OLED Technology  
Beijing Autoshow  
Display Week  
2024 DVN Detroit Workshop  
ALE, June 2024  
Indian vehicle lighting market  
DVN Pune Workshop summary  
New cars 2024  
Nichia company profile  
Test houses  
Shanghai DVN event summary

## **Reports launched in 2025**

CES and Bharat Mobility Global Expo  
DVN Munich event summary  
Dekra testhouse  
SPE Plastics in Electric & Autonomous Vehicles (EAV)  
Auto Show Shanghai

