

An industry conversation between FLABEG, MARPOSS and OLYMPIAS - PART 3 -



SMART GLASS FORUM 2024

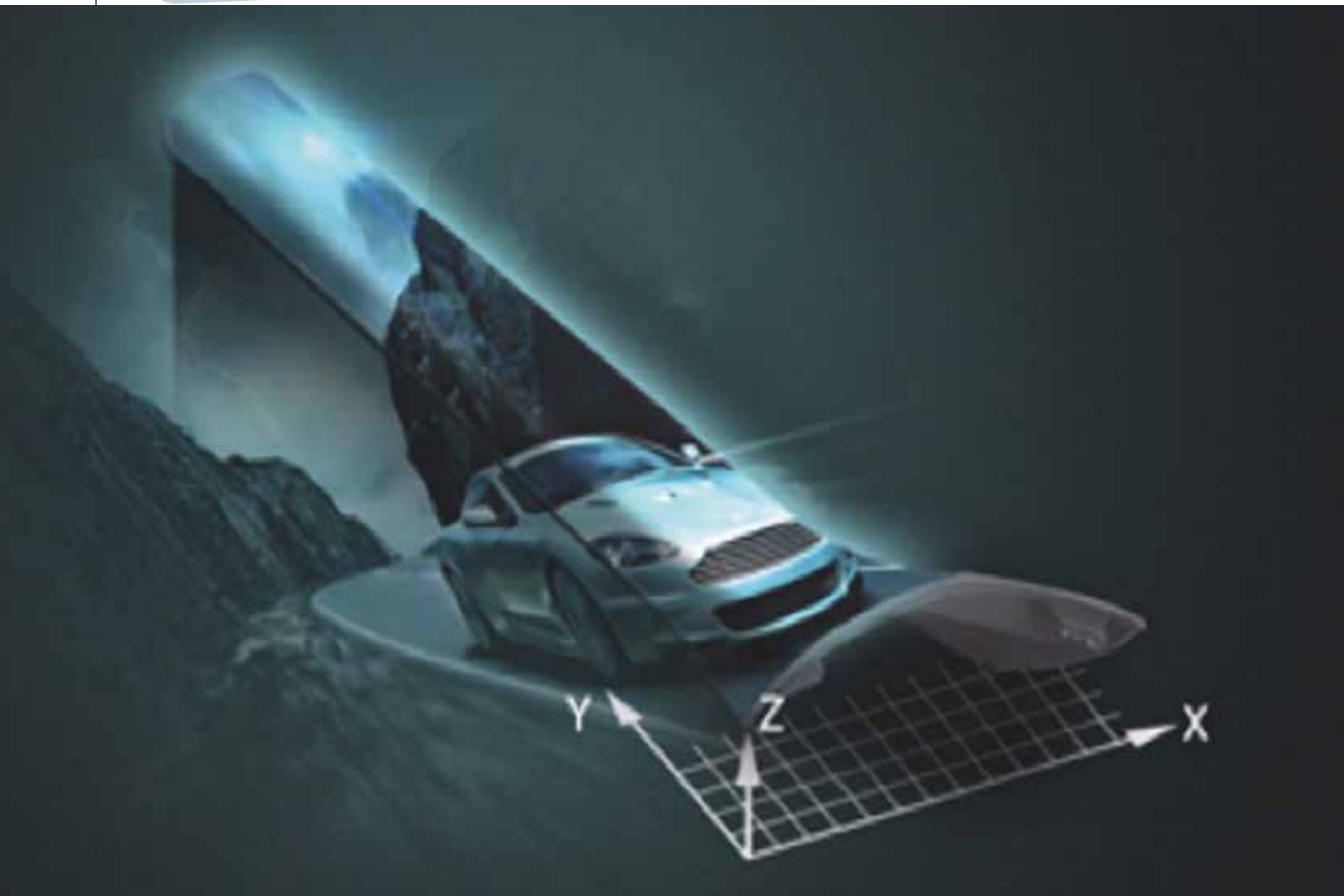
With passenger safety being a paramount concern in modern automobile design, every aspect of vehicle construction today aims to minimise injuries during accidents. Here the A-pillars (front pillars) play a crucial role in that they are essential for maintaining the structural integrity of the passenger cabin during collisions, housing airbags, and providing roof support. However, A-pillars can create blind spots, which can pose significant safety risks.

Introducing the Panoramic Windshield System (PWS)

The Panoramic Windshield System (PWS) is a technological breakthrough designed to eliminate the blind spots caused by A-pillars in passenger



Moderating on May 8 at the Automotive Smart Glass Forum at E-Tech Europe 2024 in Bologna, Glass Technology International was happy to hear key insights from Drs Matthias Schiller, CTO at FLABEG Germany, Luca Bruni, Automotive Glass, Group Industry Manager at MARPOSS and Agamemnon Varonos, CEO of OLYMPIAS as the trio discussed how their latest smart windshield innovations are impacting the automotive industry. In this third of our series of three parts dedicated to the event, we cover the presentation of Olympias's Dr Varonos.



vehicles. By making the A-pillars virtually transparent, the PWS significantly enhances road safety for both passengers and pedestrians. This innovation is not limited to conventional passenger vehicles but also benefits special-purpose vehicles like ambulances, taxis, and vans, by improving their safety features.

Cutting-Edge technology: OLCD and OLED displays

At the heart of the PWS is an embedded flexible screen utilising either Organic Liquid Crystal Display (OLCD) or Organic Light-Emitting Diode (OLED) technology. This advanced system renders the A-pillars on both the driver and passenger sides fully transparent, providing an unobstructed view behind the conventional blind spots. The PWS is built on a patented combination of a camera, processor, view controller and flexible display - all seamlessly integrated into the A-pillar trim.

Panorasis: Driving innovation

As the company behind the PWS, Panorasis focuses on developing innovative solutions through sophisticated technology. By collaborating with tier-one part producers and car manufacturers, Panorasis aims to integrate the PWS into passenger cars. The com-

pany has already established initial contacts with renowned car manufacturers, which will be crucial for future commercialization of the product.

Patented technology

The PWS is backed by multiple patents, validating its methodology and scientific rationale. International patent references include EP3186109B1, WO 2016103043A1, US9654687B2, and several others, all based on the robust US IP System. These patents provide extended claims and stronger IP protection, ensuring the unique aspects of the PWS are well-guarded.

Roadmap to commercialization

Panorasis has outlined several stages for the full commercialization and development of the PWS:

- Concept and Intellectual Property: Completed
 - Prototype Development: In progress, targeted for completion around 2023
 - Secured Financing: Ongoing
 - Company Set-up: Ongoing
 - Negotiations with Car Manufacturers, Material Vendors, and Major Part Manufacturers: Ongoing
 - Definition of Product Standards: Ongoing
 - Customization, Testing, and Licensing: Ongoing
- Currently, Panorasis is actively working on prototype development and



securing financing while identifying potential Original Equipment Manufacturers (OEMs), Tier I Producers and vendors for collaboration.

Objectives of Panorasis

- Panorasis aims to:
- Commercialise and sustainably develop the Panoramic Windshield System.
 - Collaborate with OEMs, Tier I Suppliers, and vendors to meet business and technical criteria, quality requirements, testing and safety targets and achieve full production and commercialization of the PWS.
 - Maximise shareholder portfolio value - ensuring a return on investment and long-term growth.

A safer future for automotive industry

With its groundbreaking technology and unwavering commitment to passenger safety, Panorasis is set to revolutionise the automotive industry. The Panoramic Windshield System promises to create a safer and more enjoyable driving experience for all, thereby marking a significant advancement in automotive glass technology.

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