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## **New Technology to Support LED lighting for cars in Hungary**

**At its Budaörs division, Innotec is looking into the possibility of manufacturing LED Lighting using the company's BoardFree technology with the help of more than 155 million forints in support from the NKFI fund. BoardFree technology supports more compact and durable forms of accessory LED lights in reaction to new demands shaping the automotive industry.**

Today, more and more cars are equipped with ambient LED lighting: the logo, the handles, the grills, the floor, the door sills, or the moldings can all be illuminated. At the same time, functional lights like contour lighting and door lighting are also becoming more sought-after.

Premium category automobiles already come with integrated door mirror lights to light up the area in front of the doors. Traditional lighting sources, however, are more expensive and less durable due to the high number of separate parts to be assembled.

At the Hungarian division of the United States headquartered Innotec, with the support of a more than 155-million-forints from Hungary's National Research, Development and Innovation NKFI Fund, the company is researching the possibilities of manufacturing LED lights. These lights will be manufactured with Innotec's patented BoardFree technology, which has been used in the US for over five years.

Using BoardFree technology, the LEDs and electronics are encapsulated and over molded with plastic to achieve a robust, but at the same time compact style without the use of a circuit board. This provides added flexibility and durability without the design constraints of traditional lighting products. BoardFree lights have integrated connectors, attachments, and optics that offer increase quality, energy efficiency, and flexibility to meet the toughest design and application requirements. With focused optics, Innotec LED lights can deliver clean and bright light exactly where it's needed with fewer LEDs required.

Supported by the National Research, Development and Innovation Office, Innotec is currently manufacturing sample pieces that could later be mass-produced. The samples either comply with the requirements of European car manufacturers, or with minor alterations, can serve the demands of other brands as well. It is also part of the research to find ways to integrate pre-manufactured refraction

surfaces, such as sensors and cameras, into the BoardFree manufacturing process. The process can also be used for manufacturing intelligent indoor and outdoor lamps.

As a division of Innotec, Innotec Hungary Ltd. has been manufacturing lighting apparatus and interior parts to several European car makers. Among others, Innotec Hungary is a direct supplier to Suzuki Hungary, which has several times selected the company to be among its 10 best suppliers in the last five years.