# History of Our Business Evolution and Value Creation

Through manufacturing that leverages our unique technological capabilities in the rubber and plastic fields that we have cultivated since our founding, we respond to the needs of the times and provide new value to the world.

1949 | 1960 | 1970 | 1980 | 1990 | 2000 | 2010 | 2020

## Knowledge in the fields of rubber and plastics

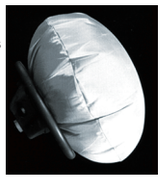
**1950** Weatherstrips

**1954** Plastic injection steering wheels

**1977** Constant-velocity joint boots

**1982** Sound-insulating glass runs

**1982** Plastic fuel filler caps



**1989** Driver-side airbags

**1998** Curtain airbags

World first

**2008** Plastic fuel filler pipes

World first

**2017** Large radiator grilles

**2020** High-pressure hydrogen tanks

**2021** Driver-side airbags for better protection in angled frontal collisions/Pedestrian protection airbags

**2022** CNF reinforced plastic

**2023** Miniature wireless charging holder

**2023** Topcoat-less hot-stamped grilles

**2023** Millimeter wave radar-compatible emblem that emits light

**2025** Steer-by-wire system steering wheel

World first

**1953** Brake hoses

**1974** Instrument panels

**1997** Rubber recycling technology

**2003** Millimeter wave radar-compatible emblem

World first

**2010** Lightweight opening trim weatherstrips

World first

**2019** Plastic turbo ducts/ Battery cases

**2020** Extra-large spindle grilles

**2022** CNF reinforced plastic

## Experience in developing new businesses

**The challenge of developing plastic injection steering wheels**

In 1952, at the suggestion of Toyota Motor Co., Ltd., we made a critical investment by installing a 48-ounce injection molding machine manufactured by Watson-Stillman Co. of the United States. This marked the beginning of the age of plastics for automotive parts.

Rubber Research Department, Toyoda Automatic Loom Works

Injection molding machine

**1986** Start of R&D for blue LEDs

**The challenge of developing airbags**

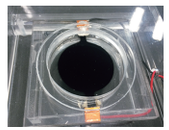
Toyoda Gosei boasts the top share in the Japanese airbag market. This was the result of boldly taking on fierce development competition for Toyota Motor Corporation's first airbag, marking a new business opportunity.

**1991** Successful development of blue LEDs is certified

World first

**World first! Successful development of blue LEDs**

In 1991, under the guidance of Professor Isamu Akasaki of Nagoya University's Faculty of Engineering and with the cooperation of Toyota Central R&D Labs, the development of a blue LED based on gallium nitride (GaN) was successfully achieved. The challenge of pursuing development deemed impossible was a continuous series of uncertainties and obstacles.



**2007** Start of R&D for e-Rubber

**2010** Start of R&D for GaN power semiconductors


**2019** Development with EBM Corp. of the SupeR BEAT heart surgery simulator that uses e-Rubber

**2020** UV-C space disinfectors, which use UV-C (deep UV) LEDs, are launched. UV-C (deep UV) LEDs are confirmed to be highly effective in neutralizing COVID-19

**2021** UV-C LED high-speed surface disinfectors

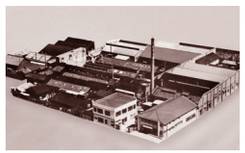
**2021** Smart insoles

**2022** Success in making larger GaN substrates for next-generation power semiconductors

**2023** Wireless power supply receiver for smartphones

**2024** Portable hydrogen cartridge

## Global network



**1949** Nagoya Rubber Co., Ltd. established as a spin-off of the Rubber Research Division of Toyota Motor Co., Ltd.

**1957** Haruhi Plant begins operation

**1967** Inazawa Plant begins operation

**1973** Company name changed to Toyoda Gosei Co., Ltd.

**1976** Morimachi Plant begins operation

**1977** US Office established in Illinois

**1980** Head office relocated to present location (Kiyosu, Aichi Prefecture)

**1982** Bisai Plant begins operation

**1989** TG Missouri Corporation established

**1995** Kitajima Technical Center established

**1999** Toyoda Gosei North America Corporation established

**2000** Toyoda Gosei Europe N.V. established

**2001** Toyoda Gosei Asia Co., Ltd. established

**2006** Toyoda Gosei (Shanghai) Co., Ltd. established

**2008** Toyoda Gosei Minda India Pvt. Ltd. established

**2009** Miwa Technical Center established

**2013** Toyoda Gosei East Japan Co., Ltd. established

**2013** GDBR Industria e Comercio de Componentes Quimicos e de Borracha Ltda. established

**2014** Toyoda Gosei Irapuato Mexico, S.A. de C.V. established

**2018** PT Toyoda Gosei Indonesia established

**2020** Inabe Plant begins operation

**2023** Toyoda Gosei Technical Center India established