

Drive by Wire also known as x-by-wire technology uses electronic controls instead of mechanical and hydraulic control for acceleration, brake and steering



THROTTLE BY WIRE

Throttle by wire includes a pedal which uses sensors to measure the movement of accelerator, which is further sent to the engine that determines the fuel requirement



Reduce emissions and improve fuel economy



Eliminates the binding problems in mechanical linkages as well emission of hazardous hydraulic

fluids

BRAKE BY WIRE

Brake by wire uses a pressure transducer to sense the pedal movement and then apply the brakes accordingly using an electrical system



Simplifies the design of car interiors by replacing the conventional mechanical and hydraulic components



Compact design reducing space utilization

STEER BY WIRE

In steer by wire system the wheels of a car are run using electrically controlled motors to change the direction of the wheels



Elimination of voice and vibration



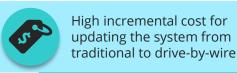
INHIBITORS

Flexible configuration (left/right hand driver)

DRIVERS

Demand for automation in automobiles like driverless cars





Increasing demand for fuel efficient cars (these system are majorly used in EV)









Lack of public acceptance due to absence of mechanical support

components (shafts, pumps, fluids, etc.) can be eliminated

Low maintenance as



KEY DEVELOPMENTS

electric vehicles in the region



Nexteer, with some unnamed OEMs, is evaluating its steer-by-wire system with as it moves to a production date for the technology by 2022-23



Mercedes Benz had introduced Sensotronic Brake Control (SBC) technology, which is similar to brake-

by-wire on R230 SL-class model



launch 'steer-by-wire' model Q50. It will result in no mechanical connection between the wheel in driver hands and the wheels on the street



Nissan is replacing conventional mechanical linkages with by-wire technology, steering and braking systems in Murano EA2 Concept system

PLAYERS IN THE MARKET FOR X-BY-WIRE TECHNOLOGY



- **KEY INSIGHTS**
 - In the global Drive by wire market, key players are leveraging various strategies such as acquisitions, partnerships, and investments to stay ahead of the competition

In drive-by-wire systems, the most commonly accepted one is brake-by-wire system, which is expected to become a 'strong trend' over the next decade as it provides

Compared to other systems, steer-by-wire is relatively new as people have not completely accepted the idea of steer less driving experience and entire reliability on electronic system. However, the scenario is expected to change in the coming decades and steer-by-wire technology is anticipated to dominate the market



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