A bit more safety

Bengaluru in 2016: the population may still be growing, the streets may still be overcrowded, and the air may still smell of exhaust fumes. But something about the traffic on the streets has changed. Motorized two-wheelers that brake using ABS have started to appear, scooters will soon be equipped with electronically controlled injection, mopeds will feature digital intelligence. Or to put it another way: for the commuters who have to fight their way through the morning rush hour on their motorbikes, some of the world's most congested streets will become a little safer. And their bikes will consume less fuel. Soon, they will be able to connect their two-wheeler with their smartphone and have the engine control unit tell them which route to work offers them the best average fuel economy. The force behind this minor revolution is a team of dedicated Bosch associates from diverse divisions. Their expertise has been pooled together in the new Two-wheeler and Powersports business unit. Headquartered in Japan, and with experts at Bosch locations worldwide, this team of motorcycle enthusiasts has already done a lot in the field of high-performance bikes. Now it wants to come up with innovations for the world's many small motorbikes as well.

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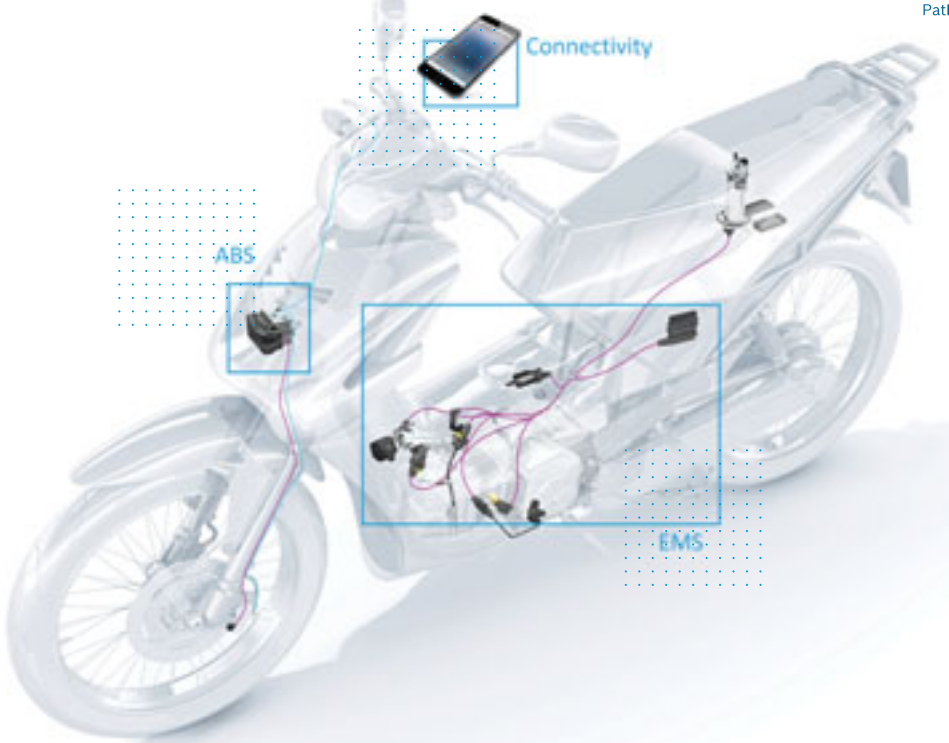
Minor revolution on India's streets

Animation
PatRec me!



ABS: SAVING LIVES

An ABS antilock braking system for motorcycles takes the fear out of an emergency braking maneuver. The system prevents the wheels from locking up and keeps the motorbike stable. In addition, the braking distance for a motorbike traveling at 100 kph is shortened by 15 percent. In India, according to a Bosch accident research study, one in three motorcycle accidents outside built-up areas could be prevented if all two-wheelers were fitted with ABS.

EMS: SAVING FUEL

Depending on the situation, the electronically controlled fuel injection of the EMS engine management system is up to 15 percent more economical than a conventional carburetor system. This is not only good for the environment, but also makes riding a motorcycle more relaxed and fun – from smooth cold starts to faster acceleration. Riders can choose whether to optimize fuel economy or their bike's dynamics. And because the system is robust, it also saves money, since there is less need for maintenance, even when fuel quality is poor.

OUTLOOK FOR CONNECTIVITY

In the future, even mopeds will be able to connect to smartphones and give their riders the opportunity to benefit from connectivity. This will stop thieves in their tracks, as the engine will start only in connection with the smartphone. An on-board computer will analyze variables such as fuel consumption and speed, and send information about the optimum route to riders' smartphones. And in the event of a breakdown, motorcyclists will be able to consult their smartphones to find out where the fault is.