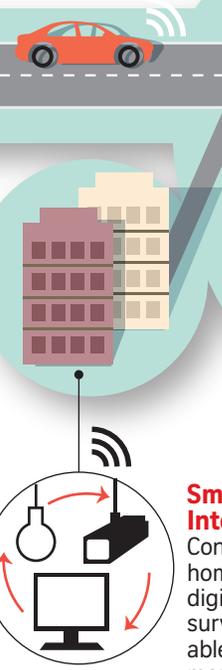
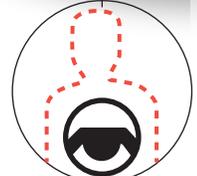


# THE ROAD TO 5G

The expected deployment of high-speed 5G mobile networks in 2020 will not only mean faster Internet access for customers, but will also benefit a whole host of industrial applications. High bandwidth, low latency and large capacity will allow for more connected devices and smarter living.



**Smart Home and the Internet of Things**  
Connected devices in smart homes, such as smart lights, digital assistants and surveillance cameras, will be able to talk to each other more efficiently and stay connected all the time.



**Driverless cars**  
The low latency – delay when transmitting information – of 5G networks will lead to safer driverless cars, as they will be able to communicate in real time with each other and avoid danger or obstructions within milliseconds.



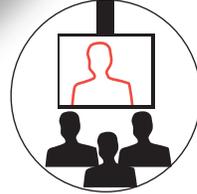
**Construction**  
Lower latency of 5G networks will let workers control equipment like cranes or excavators remotely, making construction sites safer for workers.



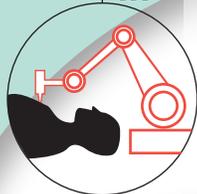
**Better coverage in crowds**  
No more losing network connectivity in crowds during New Year's Eve – 5G networks are designed to handle massive capacity and to provide connectivity to thousands of devices.



**Virtual reality**  
Virtual reality headsets require a lot of bandwidth and immediate response time, as any slight lag in response to a user's movement can lead to dizziness and nausea. 5G networks could pave the way for smoother virtual reality experiences by reducing this lag time to zero.



**Video conferencing**  
Faster download speeds and lower latency will mean video calls, even on a mobile network, will be smooth and crystal clear.



**Healthcare**  
Surgeons may be able to perform remote surgery through robotic arms in emergency situations where they cannot be present physically, as the real-time response rate of 5G networks gives them better control.



**Wearables**  
5G-enabled devices are designed to be more energy-efficient, which could lead to long-lasting health wearables for patients who need constant monitoring. These devices will keep doctors or carers constantly updated on the patient's health status and alert them immediately if something goes wrong.



**Transportation (vehicle platooning)**  
Vehicles moving in a convoy, such as large delivery trucks, will be able to 'talk' to each other in real time so that vehicles at the back of the convoy can react to changing road conditions that affect the first vehicle.

