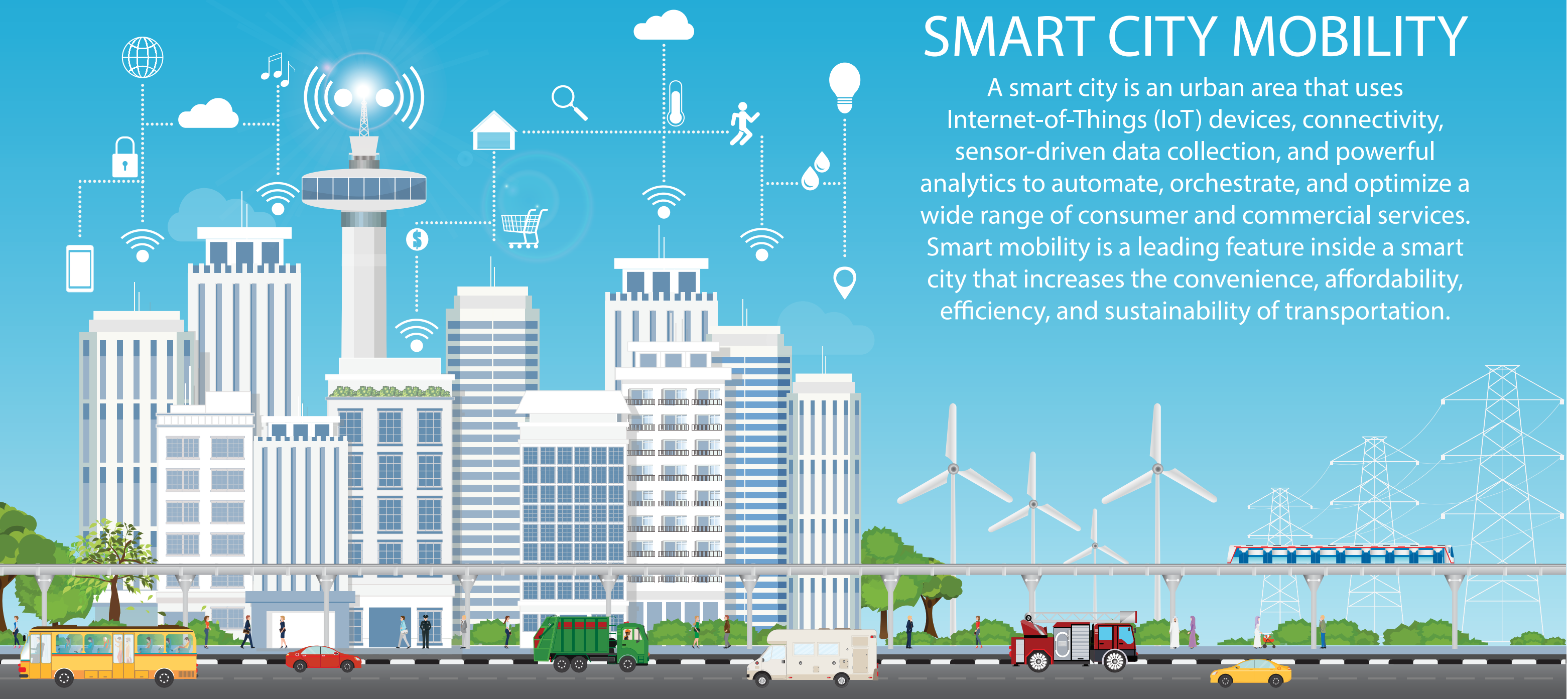


SMART CITY MOBILITY

A smart city is an urban area that uses Internet-of-Things (IoT) devices, connectivity, sensor-driven data collection, and powerful analytics to automate, orchestrate, and optimize a wide range of consumer and commercial services. Smart mobility is a leading feature inside a smart city that increases the convenience, affordability, efficiency, and sustainability of transportation.



Smart Street Lighting uses sensors and wireless technology to communicate with other IoT devices. This improves safety, energy efficiency, and assists with traffic management. Safety measures include dynamic lighting, video surveillance, gunshot detection, and license plate recognition.



Intelligent Traffic Management regulates city traffic by using sensors and smart traffic signals to monitor, control, and respond to traffic conditions. Dynamic routing uses algorithms to proactively direct vehicles, determine optimal routes, and synchronize with other vehicles on the road. This reduces traffic and pollution while improving safety.



Smart Parking uses online and mobile apps to identify available parking spaces, EV charging locations, and coordinate payment. This saves time, reduces traffic, and assists with city planning. Another benefit is reduced gasoline consumption since the daily search for parking spaces consumes one million barrels of oil globally.



Smart Roads can detect the position, speed, and weight of traffic while communicating with connected vehicles and other mobility devices. Working with intelligent traffic management systems, smart roads will reduce congestion and improve accident medical response. They can even be solar powered to transfer energy to EVs and combat weather with heated road surfaces.



Smart Traffic Signals use an array of sensors and artificial intelligence to dynamically route vehicle, cyclist, and pedestrian traffic. This reduces travel times, emissions, traffic, and fuel consumption while improving safety for all. Adaptive street crossing signals can use thermal imaging to detect pedestrians and cyclists in real-time without the need for signal buttons.



Autonomous Vehicles will soon navigate without human interaction. Personal ownership of vehicles will be supplemented with autonomous taxis and shared mobility options. The ability to communicate with other connected cars and smart infrastructure including street lights, traffic signals, roads, parking lots, and traffic management systems will make the vision of autonomous transportation a reality.

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