

By 2050 the world's population is expected to reach 10 billion, and nearly 70 per cent of these people will live in cities. The cities of the future will be 'smarter' and more sustainable to cope with a growing population and improve people's lives.

A smart city is a modern urban area that uses a range of technologies to provide services, solve problems, and support people better. The new technologies can help save time by predicting changes in the traffic and warning people of possible traffic jams. They will also help cities **operate more efficiently**. For example, street lights can turn off when the streets are empty, and **sensors** can inform waste collection teams when the bins are full. These smart technologies will help save energy, reduce air pollution, and fight climate change.

Cities in the future will also be sustainable. They will include a lot of green space and become home to more plants and animals. Making room for biodiversity and nature can be done in various ways including underground and rooftop farming, green roofs, and roof gardens. As people will care more about the environment, most cities will use renewable and clean energy. Modern infrastructure will also be more eco-friendly. Computer-controlled transport systems like electric buses and trains will produce less greenhouse gas emissions. In addition, more **pedestrian zones** for walking and cycle paths will be made available for people in all neighbourhoods.

These features will make future cities more **liveable** and will provide a high quality of life to city dwellers.

1. operate more efficiently

- A.** to work better without wasting time, money, or energy
- B.** to control a machine without wasting resources
- C.** to cut a body open for medical reasons in a more careful way

2. sensors

- A.** devices that can react to light, heat, or pressure
- B.** instruments that can be played by people
- C.** devices for discovering rubbish

3. pedestrian zones

- A.** areas for cars only
- B.** areas for electric buses
- C.** areas for walking only

4. liveable

- A.** suitable for farming
- B.** nice to live in
- C.** good for the environment