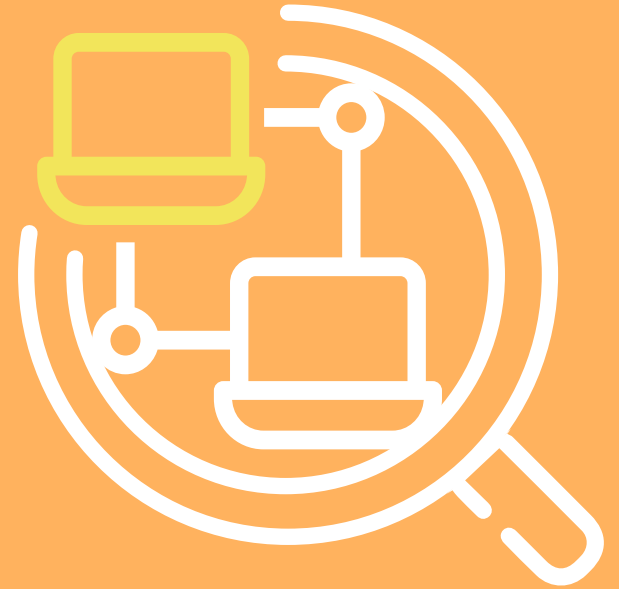


How will parcels be delivered in the future?



Background

- The logistics industry is always looking at how technology can be used to improve customer service and efficiency.
- The use of drones and autonomous vehicles are being explored by logistics companies to deliver goods in the future.
- Both these technologies use sensors to help detect objects around the car or drone.
- They also use other technologies to help them complete the tasks they have been set such as to deliver specific items to a location.

Drones

- Drones are controlled by a remote pilot.
- To deliver items over a large area the drone operator will not be able to see the drone. This is known as 'Beyond Visual Line of Sight'.
- The latest drones have built-in detect and avoid technologies that enable drones to fly more safely out of sight of their operator.



Drones

Useful articles:

- [BBC News - Amazon pledges parcels in an hour using drone deliveries](#)
- [BBC News - Site of hospital drone hub moved after objections](#)
- [Amazon drones can now fly further and deliver more to customers](#)



Autonomous vehicles

- Range from small robots that travel on pavements to cars and vans that have no driver present and travel on roads.
- Contain sensors that are used to provide information to enable the vehicle to make driving decisions.
- Can plan their own routes.
- Require little human intervention.



Autonomous vehicles

Useful articles:

- [BBC News – Self-driving delivery van ditches ‘human controls’](#)
- [BBC News – Self-driving delivery trial](#)
- [BBC News – Driverless cars](#)
- [Waymo self-driving cars are delivering uber eats orders for first time](#)



Your task

1. **Research and investigate** the current applications of drones and autonomous vehicles for deliveries.
2. **Investigate** how the Computer Misuse Act 1990 and the Data protection Act 2018 could affect the use of new technologies.
3. **Identify the advantages and disadvantages** of using this type of technology to make deliveries.
4. **Make a recommendation** to a delivery company as to whether they should or should not use drones and autonomous vehicles to deliver goods.
5. **Justify** your recommendation using evidence to support it.