Digital technology in farming

By improving production, tracking products, and cutting down on labor-intensive tasks, digital technology is now a fact of farming life.

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1 Satellites enable data transmission and help monitor individual land parcels, providing information on land use, yields, and crop development.

2 Collars fitted with

parlor, and the fields.

Information on protein

or parasites goes directly to the farmer via a server.

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1987kg

55×

5.0

to move freely between

4 Data on milk production transmitters allow cows levels, veterinary visits, herd numbers, and forage the cowshed, the milking supplies help farmers to manage their farms. They transmit information

on the behavior of both Weather stations individuals and the herd. measure air humidity. temperature, and wind 3 Robots not only provide strength. These factors automated milking but determine the growth of also analyze the milk itself. meadows and crops. content, density, or the presence of antibiotics

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Guided by leaf colour, robots identify whether a vine is diseased and apply targeted spraying.

Robots follow pickers during harvesting for fruit and vegetables, relieving them of their loads.

Networked grain silos **B** Drones equipped with cameras or thermal sensors provide tailored remote . alerts for humidity and overfly fields and transmit temperature levels, warning data on the condition of soils farmers when mold might and crops. appear in the grain and

Metworked traps **9** The data transmitted to farmers via mobile in orchards allow pests phone satellite networks identification and alert or short-wave radio (where farmers of their presence. there is no mobile phone coverage], allow them to monitor vields and soil moisture levels and warn them of bad weather.

They also send the data to the National epidemic monitoring service.

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🕑 Data on the origin, mode of production, and processing of food ensures that food products can be traced from the producer right through to the consumer, regardless of the sales route (farm gate, local groups supporting small farmers (AMAP), shops) using labelling and applications such as Yuka.

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cutting waste by 10%.



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