Applications of drones across different sectors

Telecommunications

Drones inspect towers and telecommunications antennas to check the condition of hardware, ensure proper alignment and verify compliance with wildlife nesting regulations.

Insurance and disaster response

They carry out roof inspections and assess damage caused by floods or storms, helping to speed up claims processing and recovery efforts.

Environmental monitoring

Drones support wildlife studies, oversee conservation areas, track deforestation and assess the health of coasts and wetlands, providing valuable data for environmental protection.

Energy sector and electricity generation

In this sector, drones are used to inspect transmission lines, substations, wind turbines and solar plants. They can also detect faults, identify hot spots, monitor vegetation encroachment and assess damage to insulators.

Construction and infrastructure

They capture images to analyse bridges, railways, roads, high-rise buildings and roofs, aiding quality control, progress validation and safe inspection of hard-to-reach areas such as understructures or expansion joints.

Mining

Drones conduct surveys of mines, tailings dams, conveyors, crushers and stockpiles, allowing safe access to unstable or potentially hazardous areas.

Source: Averroes.ai