



1

00:00:00,660 --> 00:00:04,710

NASA is getting the drone revolution off the ground.

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00:00:04,710 --> 00:00:12,400

Its Unmanned Aircraft Systems Traffic Management platform makes flying large numbers of drones at low altitu

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00:00:12,400 --> 00:00:18,130

The technology lets drone operators define flight paths and share that information with others,

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00:00:18,130 --> 00:00:24,130

creating a system for operating drones safely and efficiently in populated and urban areas.

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00:00:24,130 --> 00:00:30,640

Several years of field testing concluded in 2019 with trials in Reno, Nevada, and Corpus Christi, Texas.

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00:00:30,640 --> 00:00:35,450

More than 35 industry and government partners participated in the flight tests.

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00:00:35,450 --> 00:00:40,760

These activities featured multiple vehicles flying beyond sight of their operators

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00:00:40,760 --> 00:00:44,720

in the airspace between the ground and 400 feet.

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00:00:44,720 --> 00:00:50,520

The tests also explored the ability of drones to operate under unexpected conditions.

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00:00:50,520 --> 00:00:54,610

Flight scenarios included loss of ground communications,

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00:00:54,610 --> 00:00:58,420

loss of GPS navigation,

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00:00:58,420 --> 00:01:02,220

adverse weather events,

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00:01:02,220 --> 00:01:06,170

and first responder emergency operations.

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00:01:06,170 --> 00:01:10,090

Onboard autonomous systems were also developed

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00:01:10,090 --> 00:01:15,940

to detect and avoid drones, determine safe landing locations, and improve vehicle-to-vehicle communications.

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00:01:15,940 --> 00:01:21,510

The Federal Aviation Administration will continue development of the system and implement it over time,