

FDNY ROBOTICS UNIT



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History

Born from the attacks of September 11, 2001

Better ability to surveil any situation – real time situational awareness

2006 – Command Tactical Unit (CTU) established

2014 – discussions with FAA about drone use by FDNY

Initially obtained tethered drones – due to concerns of remotely being taken over by non-FDNY personnel – flew 150-200ft

First use – March of 2017 for a 4th alarm fire in the Bronx

Now tethered and untethered drones

Formally named the Robotics Unit - 2020



Drones – UAS (Unmanned Aerial System)

- Aerial triage – real time surveillance --
 - situational awareness
 - identify fire hot spots with thermal cameras
 - building inspections
- Patient rescues
 - water rescues – dropping buoy devices to distressed swimmers
 - dropping electronic shark deterrent devices – ward off sharks
- Medical Equipment delivery
 - blood to the field?





RoboDogs

- Discussions began in 2021
- NYPD first obtained for LEO – public deemed too threatening
- FDNY – obtained in 2022
- First utilized during building collapse (garage building) – unsafe for FFs and paramedics to make entry into a space where there was a victim – April 2023







Future



- E.M.I.L.Y
 - EMergency
 - Integrated Lifesaving
 - LanYard

A remotely controlled floatation device that can be sent to the victim



Thank You

Questions?