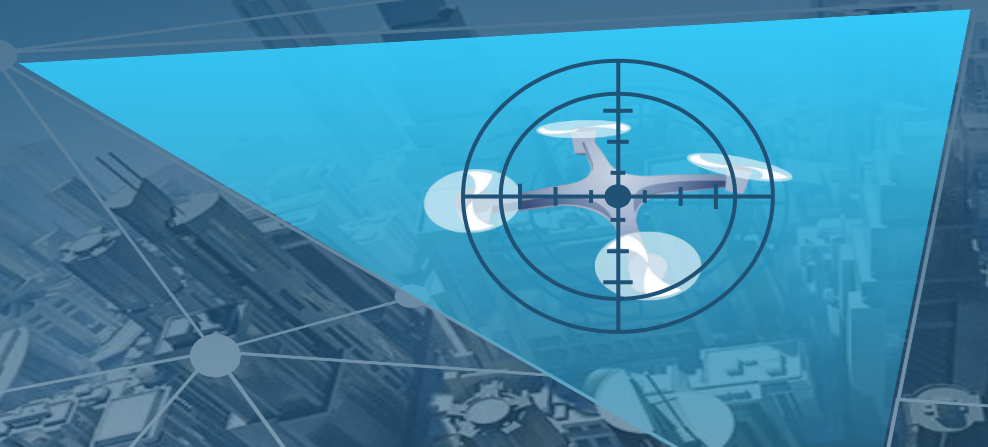
Counter-Drone Solutions for Urban Environments



Yaniv Benbenisti

President & Chief Product Officer

We love drones

DRONES WILL CHANGE OUR LIVES

Delivery

Agriculture

Construction

THE DRONE USERS

The Good

Good users and good usage

The Bad

Careless users and accidently bad usage

The Ugly

Terror & Crime

THE BAD – CARELESS USERS

USA

Drones keep entering no-fly zones over Washington, raising security concerns

Italy

World champion skier almost hit by camera drone

Germany

Drone crashed in front of Chancellor Merkel

UK

Drone put 130 lives at risk after near miss with plane approaching Gatwick

Serbia

Drone interrupts Serbia vs Albania football game

US

Small drone crashes near White House despite ban against flights in D.C.

THE UGLY…

Drone drugs smuggle

Islamic state terror acts

Criminals used drones against FBI rescue

ISIS Terrorist Drone University

Terrorists drone attacks are coming to the US “imminently”, warns FBI director

Haye Kesteloo -

Traditional counter-drone technologies are ineffective in **urban environments**

TRADITIONAL COUNTER-DRONE TECHNOLOGIES

Additional flying objects

No Clear line-of-sight

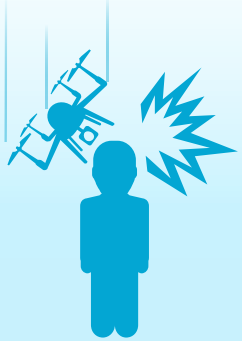
Radar

Optical

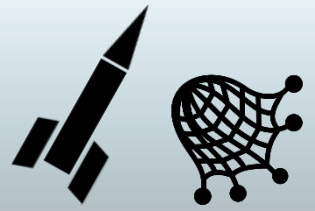
Detection

Urban communication & Signals

Collateral damage



Radio Control & GPS Jamming

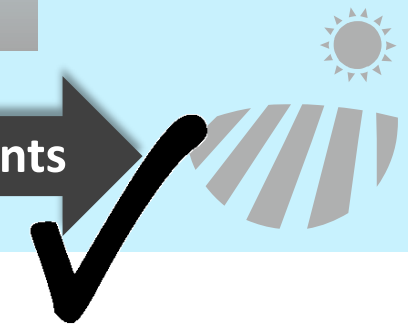


Kinetic

Mitigation

Urban Environments

Rural Environments



COUNTER-DRONE SOLUTIONS FOR URBAN ENVIRONMENTS

Additional flying objects

No Clear line-of-sight

Communication

Radar

Optical

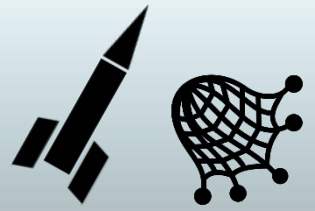
Detection

Urban communication & Signals

Collateral damage

Take-Over

Radio Control & GPS Jamming



Kinetic

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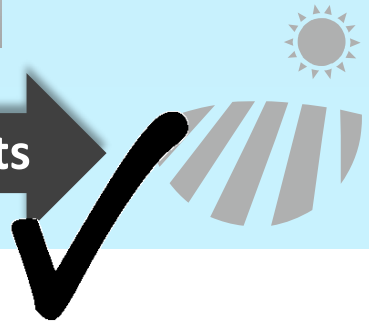


DRONES RADIO EVOLUTION

Wi Fi

2012

D-FEND SOLUTIONS

Proprietary,
Long distance communication

2018

EnforceAir™ by D-Fend

An autonomous end-to-end system

that detects & takes control over rogue commercial drones

and lands them safely in a designated zone

Designed for

Urban Environments

- Non-jamming
- Non-kinetic
- No line of sight

EnforceAir™ by D-Fend

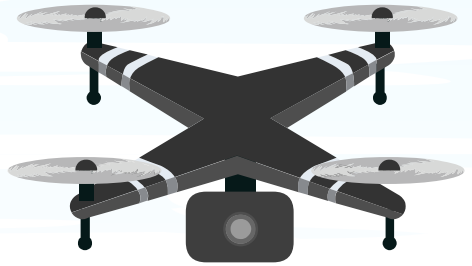
Modular capabilities

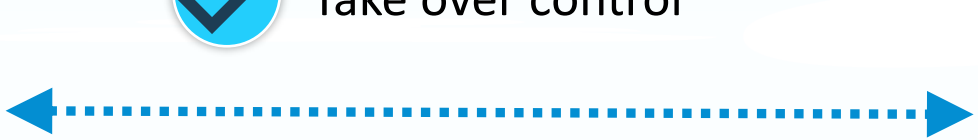
ENFORCEAIR - HOW DOES IT WORK

Autonomous Software Defined Radio (SDR) system designed for urban environments

Disconnect

Take over control





ENFORCEAIR - PERFORMANCE

MULTIPLE DEPLOYMENT OPTIONS

Single-Sensor

Ad-hoc / Fixed / Vehicle deployment

Multi-Sensors

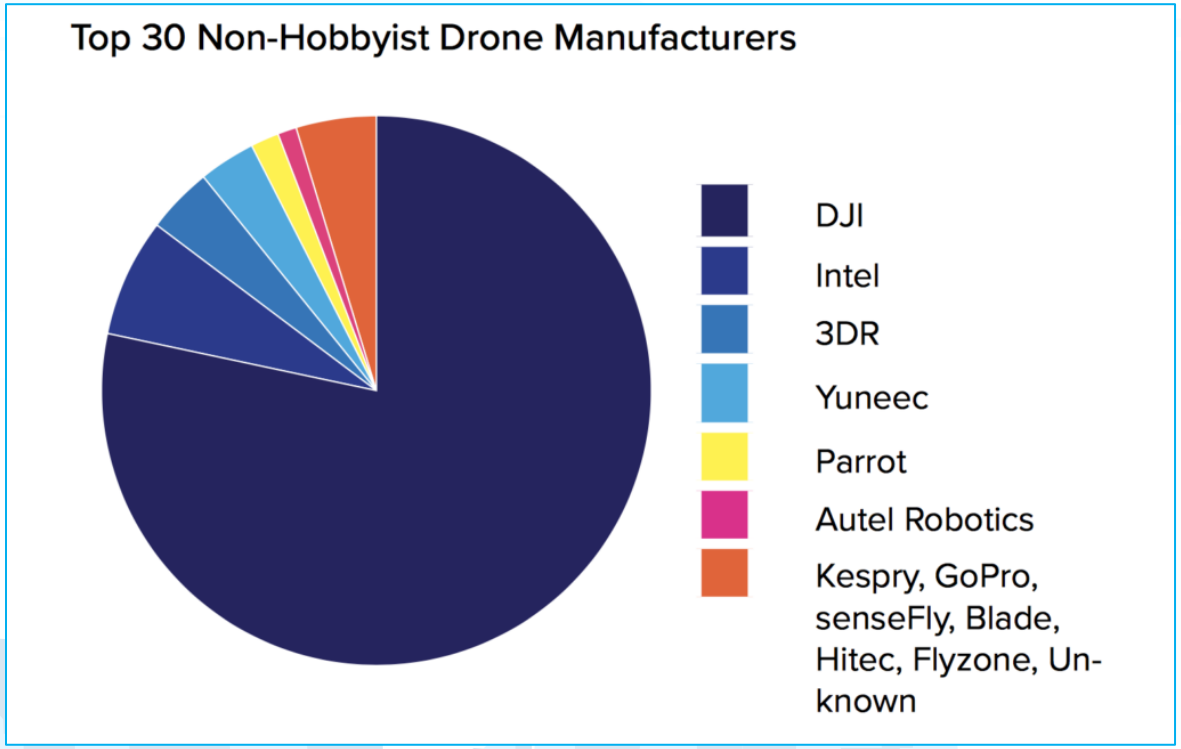
Central command & control, scalable topology

EnforceAir command & control

FIRMWARE UPDATE SERVICE

Periodic firmware update to protect against new drones and new radio modules

(Focus on DJI ,leading >80% market)



D-Fend Solutions

Providing **safe** counter-drone solution for **urban** environments

Airports

Prisons

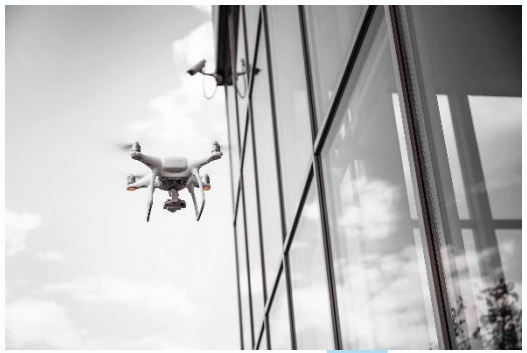
First Responders

Secret Services & Military

Safe City

Media Providers
& Sporting Events

Critical Infrastructure
& Utilities



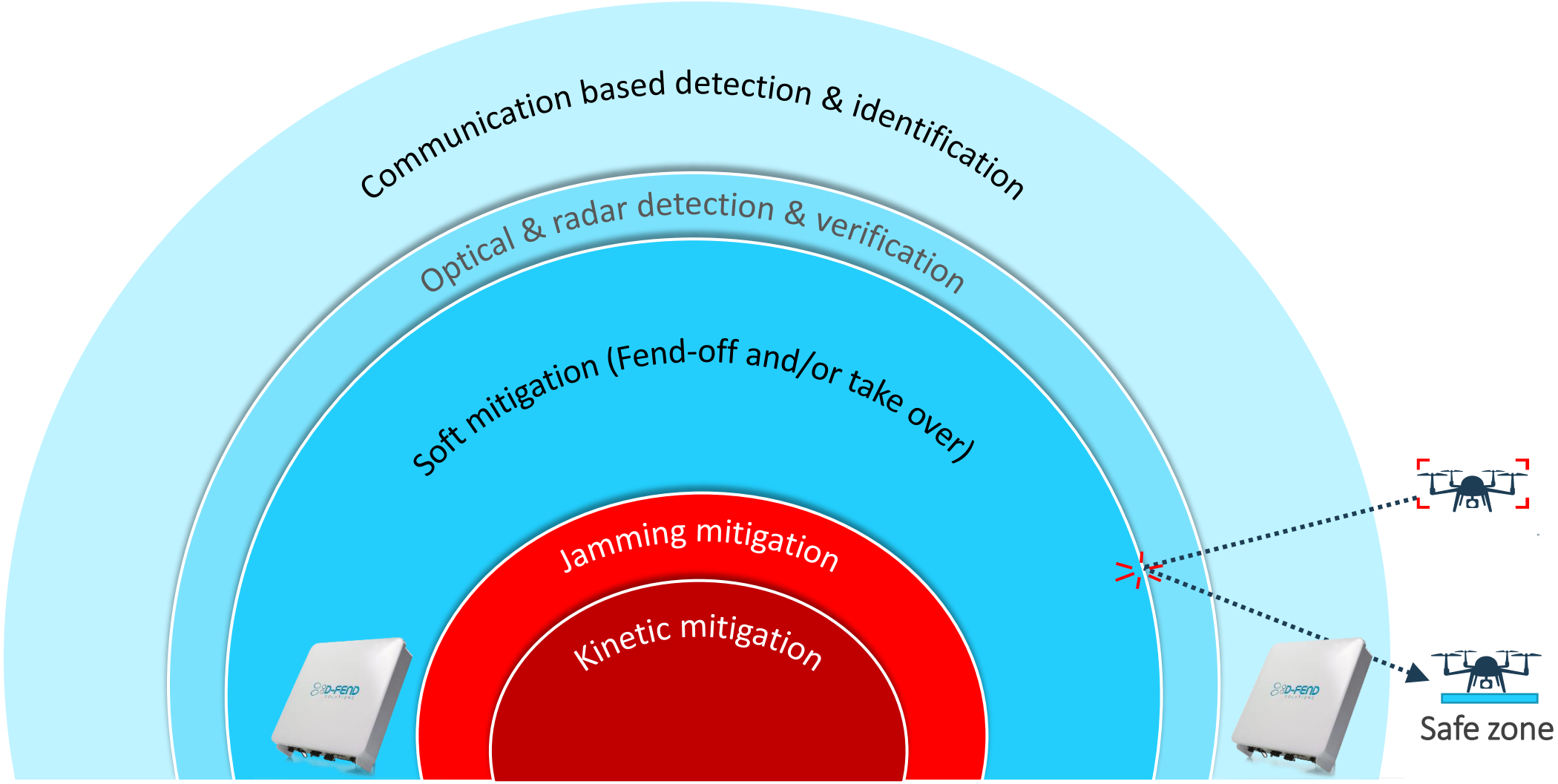
Corporate Security

DESIGNED FOR ADVANCED THREATS

Swarm

Modified

INTEGRATED WITH MULTI-LAYER & MULTI-SENSOR SOLUTIONS



SUMMARY

- Safe counter drone solution for urban environment
- Take over control of most popular modern drones
- Eliminate threat by taking control
- Extract intelligence in real time

D-FEND SOLUTIONS

Counter-Drone Solutions for Urban Environments

Thank You

Meet us @ booth T21

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