



CNN

10:54 AM ET



No Comment

02/07/2018

BUGEY, FRANCE

Greenpeace Crashed a Drone and a Toy Plane Into a French Nuclear Plant

SERBIA ALBANIA MATCH ABANDONED

Play interrupted by flag carrying drone



#WSJLIVE
WSJ
Live

ALL DRONES USED ARE:

1. **COMMERCIAL** DRONES (COST < US\$ 1,500)

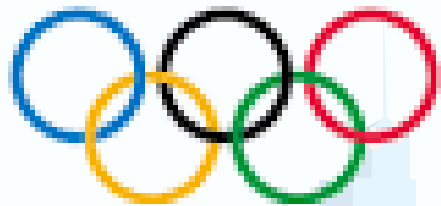
2. DO IT YOURSELF (DIY) DRONES –
BUILT FROM OFF-THE-SHELF COMMERCIAL PARTS



HOW JAPAN PREPARE ITSELF AGAINST THAT?



TOKYO 2020



TOKYO 2020
PARALYMPIC GAMES





Counter-Drone Solutions for Urban Environments

The background of the slide is a blue-tinted aerial view of a city. Overlaid on this is a white network diagram with several nodes (circles) connected by lines. A central node is highlighted with a blue triangle, and inside this triangle is a white drone with a black crosshair target over it.

Enabling the Drone Revolution While Securing our Urban Environments

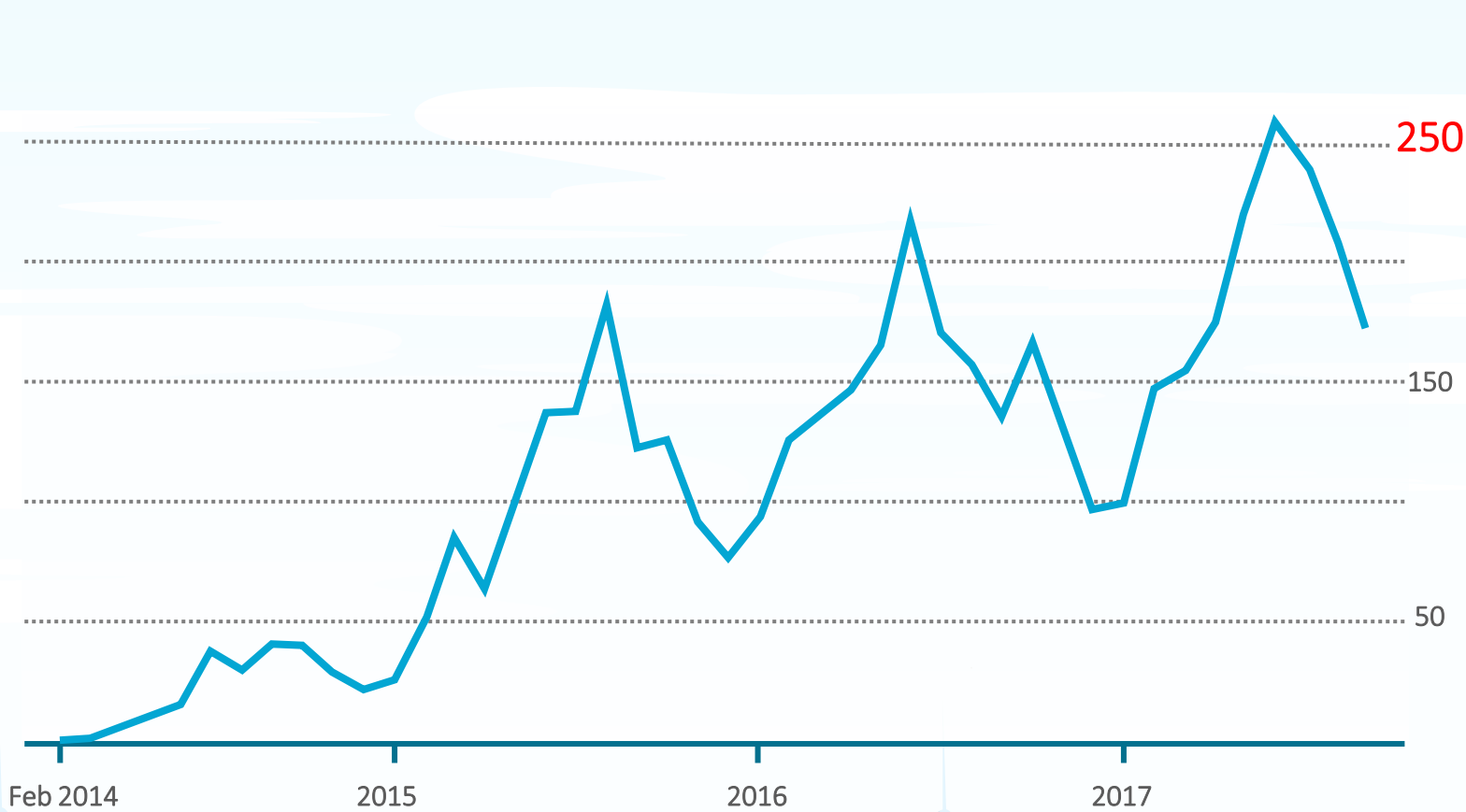
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DRONE-RELATED RISKS INCIDENTS ARE SURGING

Safety reports involving drones in the U.S., including near misses, reached record levels

(Source: Federal Aviation Administration)



CURRENT COUNTER-DRONE SOLUTIONS ARE INEFFECTIVE AND DANGEROUS IN URBAN ENVIRONMENTS



H.R. 302 – “FAA REAUTHORIZATION ACT OF 2018”,

<https://www.congress.gov/bill/115th-congress/house-bill/4/text#toc-H1459E9A52C49400BA586E4A027B07305>, Sep/27/2018

SEC. 342. DEFINITIONS.

“(48) ‘counter-UAS system’ means a system or device capable of lawfully and **safely disabling, disrupting, or seizing control of an unmanned aircraft or unmanned aircraft system.**

SEC. 349. U.S. COUNTER-UAS SYSTEM REVIEW OF INTERAGENCY COORDINATION PROCESSES.

(a) IN GENERAL.—Not later than **60 days** after that date of enactment of this Act, the Administrator of the Federal Aviation Administration, in consultation with government agencies currently **authorized to operate Counter-Unmanned Aircraft System (C-UAS) systems within the United States**



ENFORCEAIR™ BY D-FEND

An **autonomous** end-to-end solution
that **takes over** communication links of rogue drones
and lands them **controllably** & **safely** in a designated safe zone

Designed for Urban Environments

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



WHAT'S IN (ENFORCEAIR) BOX...

Covertness & Efficiency

- 1.Passive detection
- 2.Does not require reception of drone's remote control
- 3.Can operate with no direct line-of-sight to the drone
- 4.Pre flight detection (while the drone is on the ground)

Performance & Effectiveness

- 1.GPS location & altitude (drone and home point/operator)
- 2.Long distance
- 3.Fast mitigation
- 4.SWARM support

Adjustable to Operational Needs

- 1.Autonomous
- 2.User defined polygon-based detection & protection areas
3. Dual use – static & mobile (vehicle) deployments
4. Light weight

No Collateral Effect on Friendly Activity

- 1.IFF (Identification, friend or foe), Selective mitigation (white list)
- 2.Does not interfere with other communication signals
- 3.Safe route to the safe zone
- 4.Suitable for urban environments



ENFORCEAIR™ BY D-FEND



*No collateral effect to friendly communication

MITIGATING H.E.D

D-FEND
SOLUTIONS

Other Take-Over
Solutions



WiFi

Small, Short-Range Drones



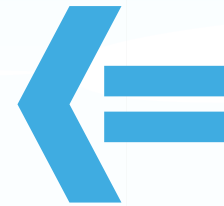
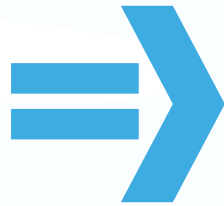
High-Endurance Drones (HED),
Long-Range Communication



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DESIGNED FOR ADVANCED THREATS

Swarm



Do It Yourself





Counter-Drone Solution for Urban Environments

Thank You

Zohar Halachmi

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