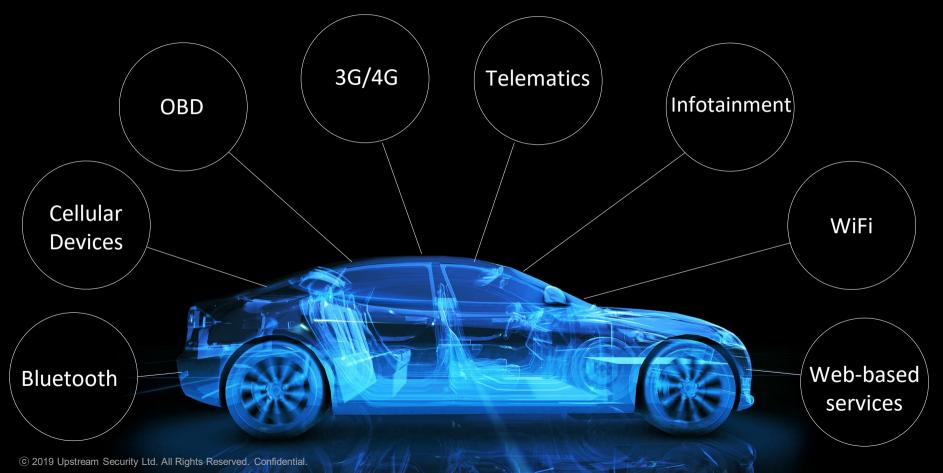
MAKING CONNECTED CARS SAFE AND SECURE. FOR EVERYONE.

Upstream

Upstream MAKING SMART MOBILITY SAFE AND SECURE. FOR EVERYONE.



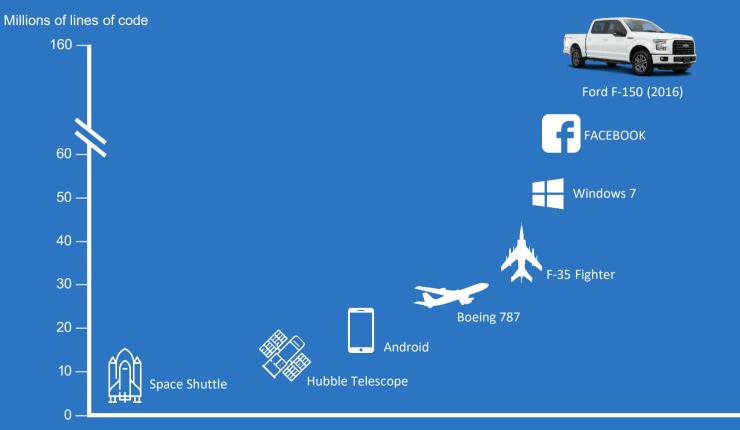
VEHICLES CONNECTIVITY



330 CONNECTED VEHICLES ON THE ROAD TODAY

((~))) ((r= 6) CONNECTED VEHICLES ON THE ROAD BY 2023

CONNECTED VEHICLES: CUTTING-EDGE TECHNOLOGY



RAPID GROWTH OF CYBER-ATTACKS ON THE CONNECTED AUTOMOTIVE INDUSTRY 2010-2019

Reported automotive cyber-attacks by year



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Source: Upstream Security AutoThreat Intelligence

THE TABLES HAVE TURNED BLACKHAT ATTACKS SURPASS WHITEHAT

60% 60% BLACK HAT

2019



*Up to October 2019

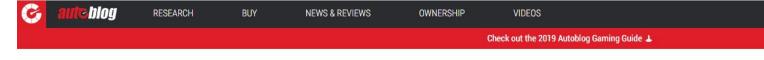
Source: Upstream Security AutoThreat Intelligence

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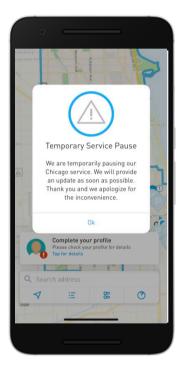






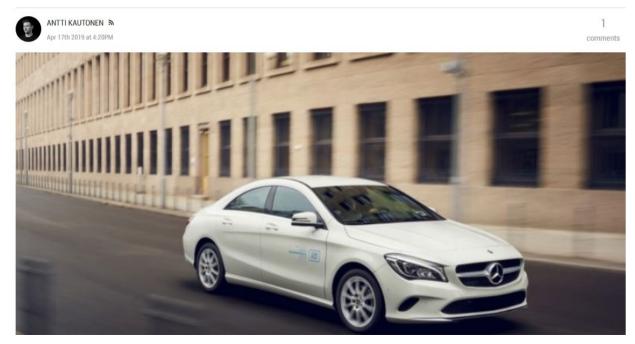


BREAKING



Chicago Car2Go app reportedly hacked, some 100 cars missing

Stolen cars used to commit crimes, says CBS Chicago



FBI says hackers are targeting US auto industry

Edition



By Josh Campbell

Updated 2227 GMT (0627 HKT) November 20, 2019





DATA

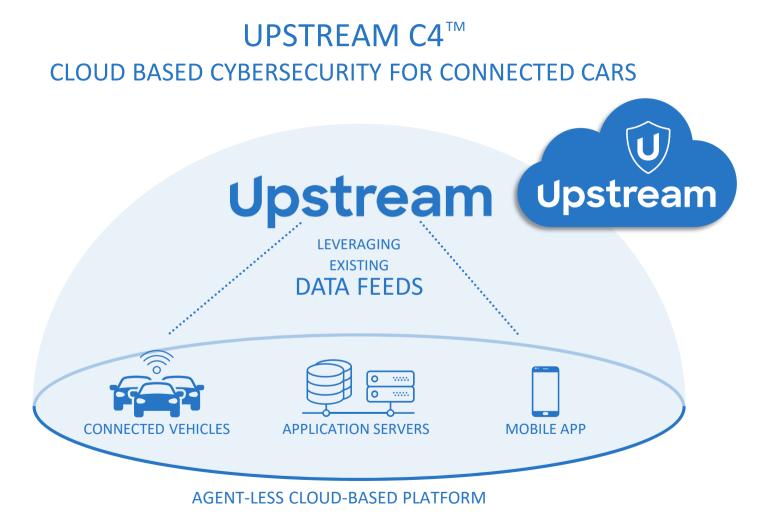
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C ·

CONNECTED CARS

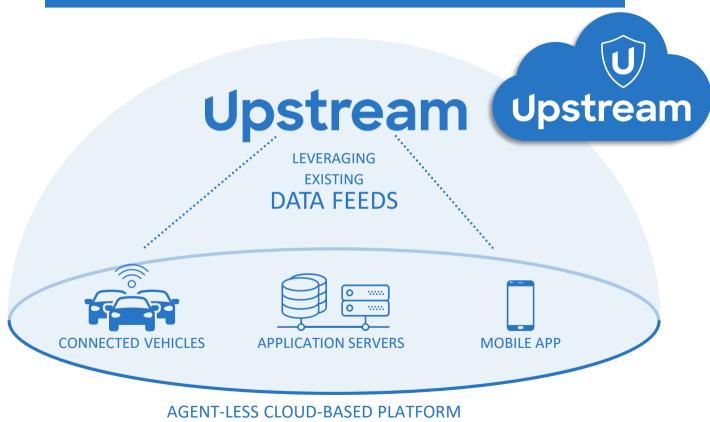
SMART MOBILITY SERVICES

FROM CYBER-THREATS, MISUSE, FRAUD

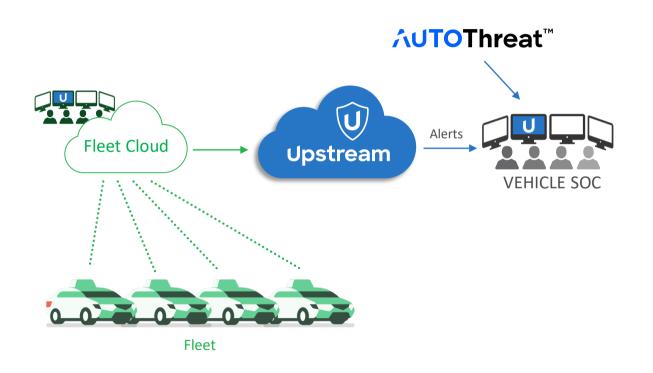


UPSTREAM C4[™]

NO IN-VEHICLE SOFTWARE OR HARDWARE INSTALLATION



EXAMPLE: UPSTREAM FLEET MONITORING INTEGRATED THREAT FEED



UPSTREAM VEHICLE SOC

Incident Detection and Response



From the automotive cloud (telematics) hackers can target multiple vehicles at the same time Automotive **Cloud Services** Hacker attacking the automotive cloud remotely

