SKEYETECH

PRESENTATION 2019-09

AZUR DRONES Committed all the way

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AZUR DRONES



European leader in autonomous drone

60 Employees **30+** engineers



Operational centres Headquarters: Mérignac (33)





DRONES & SECURITY

SKT_740



INCREASING SAFETY / SECURITY ISSUES



AZUR DRONES Committed all the way







SITUATIONAL ASSESSMENT: A CRUCIAL STEP



System performance: fast and accurate intervention in case of detection

 \rightarrow Need to decrease situational assessment time





SITUATIONAL ASSESSMENT SOLUTIONS: PTZ CAMERAS





Example of sensitive site parcels: → Numerous obstacles limiting situational assessment: buildings, trees, vehicles ...

ightarrow Many areas uncovered by cameras





SITUATIONAL ASSESSMENT SOLUTIONS: SECURITY TEAM



At least: 2 security officers – 24/7



Expensive solution



Random intervention time



Risk exposure of staff



Under Staffed Fire Staff



Inefficient assessment, or even impossible





SITUATIONAL ASSESSMENT WITH DRONE





BENEFITS OF SITUATIONAL ASSESSMENT WITH DRONE (1/2)





BENEFITS OF SITUATIONAL ASSESSMENT WITH DRONE (2/2)



Committed all the way



PERIMETER PATROLS



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PERIMETER PATROLS



PERIMETER PATROLS ARE USUALLY TIME-CONSUMING



Presence of at least 2 guards



Expensive workforce ~ 180 k€ for an annual permanent presence

Dangerous patrols

Distraction risk



Numerous work accident





Lack of efficiency

Example of a 140 ha site \rightarrow 7400 of fences to check

 \rightarrow At least 2h patrols



PERIMETER PATROLS



PATROLLING WITH A DRONE (1/2)

Higher vision capacities







CRISIS MANAGEMENT



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CRISIS MANAGEMENT: A LACK OF USEABLE INFORMATION

- Limited communication between crisis unit and field team (phone, radio, ...)
- Complex real-time retransmission
- Lack of relevant information : difficulties for security teams to carry out safe and efficient intervention





DRONES FOR CRISIS MANAGEMENT





SKEYETECH PRESENTATION





CAMERA CHARACTERISTICS





CAMERA PERFORMANCE AT 30M ALTITUDE





CAMERA PERFORMANCE AT 30M ALTITUDE



Committed all the way

DRONE CHARACTERISTICS



* According to national regulations. Currently limited to 1000m in France.

Committed all the way

STATION CHARACTERISTICS

PROTECT

- IP 65

DEPLOY

- Deployment in < 20sec
- Weather station: anemometer and rain gauge

CONTROL

- Secured data transmission

RECHARGE

- Recharging ~ 1.5 x mission time





VMS CHARACTERISTICS

CONTROLLABLE FROM MILESTONE

- Launch of automatic missions (patrols)
- ✓ Triggering missions on alerts
- ✓ Real-time video feedbacks
- ✓ Camera control (joystick or clic)
- ✓ Clic & Go* navigation





INNOVATIVE AND CERTIFIED SOLUTION

First and only automated drone certified in Europe

DGAC approval:

- ✓ Over private areas
- ✓ Beyond Visual Line Of Sight (BVLOS)
- ✓ Day or night
- ✓ Urban areas
- Under simple supervision of a remote operator





SECURITY MEETINGS INNOVATION

VIVA TECHNOLOGY

SKFAtos CHALLENGE INDUSRIE DU FUTUR





INSTALLATION CONDITIONS



TANANAN

A COMPLETE SERVICE

Azur Drones provides a complete service to ease SKEYETECH implementation on any site.





PRELIMINARY STUDY

PRELIMINARY STUDY

- 1. Regulatory framework and aeronautical environment studies
- 2. Prior visit to identify works and team training to be carried out, specific constraints and required installation authorizations
- 3. Risk analysis





ON-SITE INSTALLATION

ON-SITE INSTALLATION

- ✓ Zone 3-D mapping for VMS integration
- ✓ Installation and station connection
- System configuration (secondary landing places, areas of relocation, flight limits, No Fly Zones, missions...)
- ✓ Tests of recorded points (take-off and relocation)
- ✓ Parameters and safe behaviours tests
- ✓ Scenarios validation
- ✓ Presence during functioning



A STREAMLINED INTEGRATION





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