

Drones as a leverage for jobs and new business opportunities
23-24 November 2016, Warsaw, Poland

Panel 4: How to safely manage low level air
traffic: an Urban Traffic Management concept

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*Provide UAV **operators** with **information** and **tools**,
than **enforce** the law*

DroneRadar Mobile is an ANSP integrated, easy to use platform (**GYR***) for UAV **flight evaluation**

DroneRadar enables the **registration** and **monitoring** of areas where RPAS flights take place

DroneRadar ANSP allows two way “**non-verbal communication**” between ATS and RPAS operator with the use of a notification of requests for flights, start/end times, loss of control, emergency situations and many others



DroneRadar Airspaces BI integrates **ALL** kind of aviation information (also flexible) from various data sources (AIP, AIP SUP, NOTAM, AUP, UUP) and confront it with local RPAS regulation. Poland is in production since Dec 2015. EU countries in preparation.

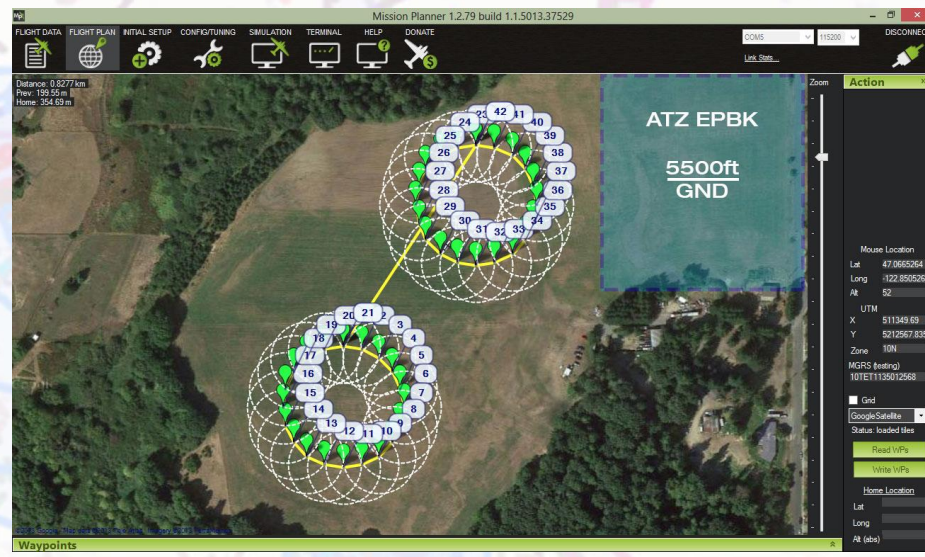
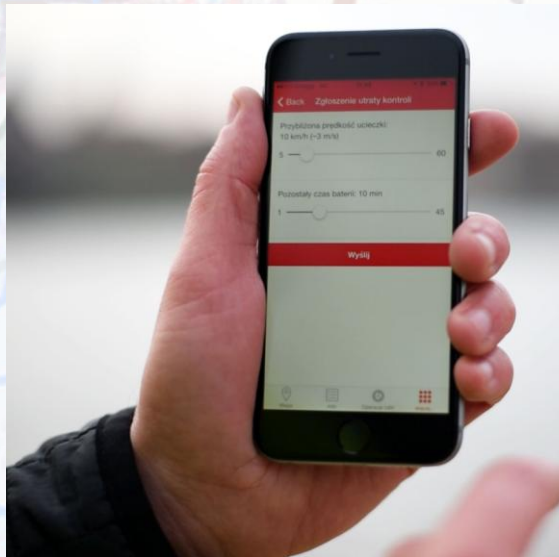
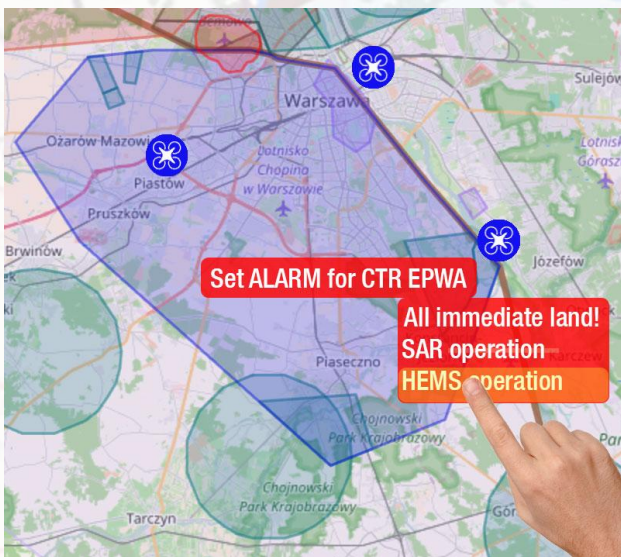
DroneRadar Airspaces BI offers aeronautical information as a service **AaaS**

ANSP integration ensure 2-way “**non-verbal**” communication for
Emergency areas (eg. HEMS, CTR) & Lost Drone

Performs On-Line airspace changes according to **AUP**, **UUP**, and **NOTAM**

Flight evaluation check for Color assesment is confronted with **AGL** and adopted to **local times**

Provides universal interface for 3rd party **mission planners**



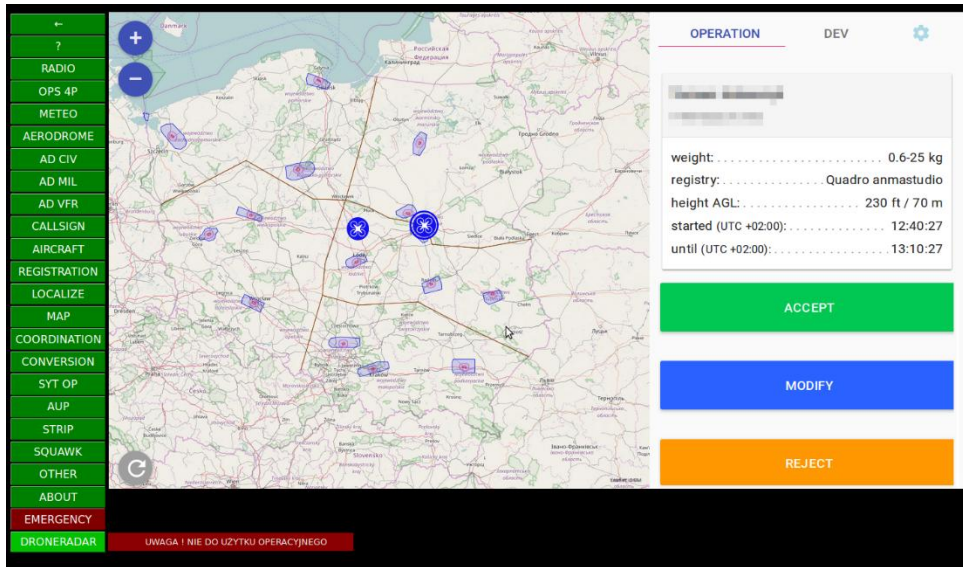
DroneRadar facts and statistics

- More than 20 000 downloaded apps (Android/iOS only in Poland)
- 96% of Certified UAVO are using DroneRadar
- Up to 100 real Check-Ins daily
- > 45 000 airspaces checks monthly
- Average monthly airspace check per user: 35

Tool for governmental institutions for immediate “airspace markings”

- Chief Veterinary Inspectorate
- Mountain volunteer search and rescue
- Police department of surveying and people identification

today and tomorrow



DroneRadar
official
launch

Dec 2015

Integrati
on
with MIL
TWR

Apr 2016

Integrati
on with
Pandora

Aug 2016

RPAS
Panic to
ANSP

Oct 2016

Emergen
cy
Virtual
NOTAM

Nov 2016

EU
Coverag
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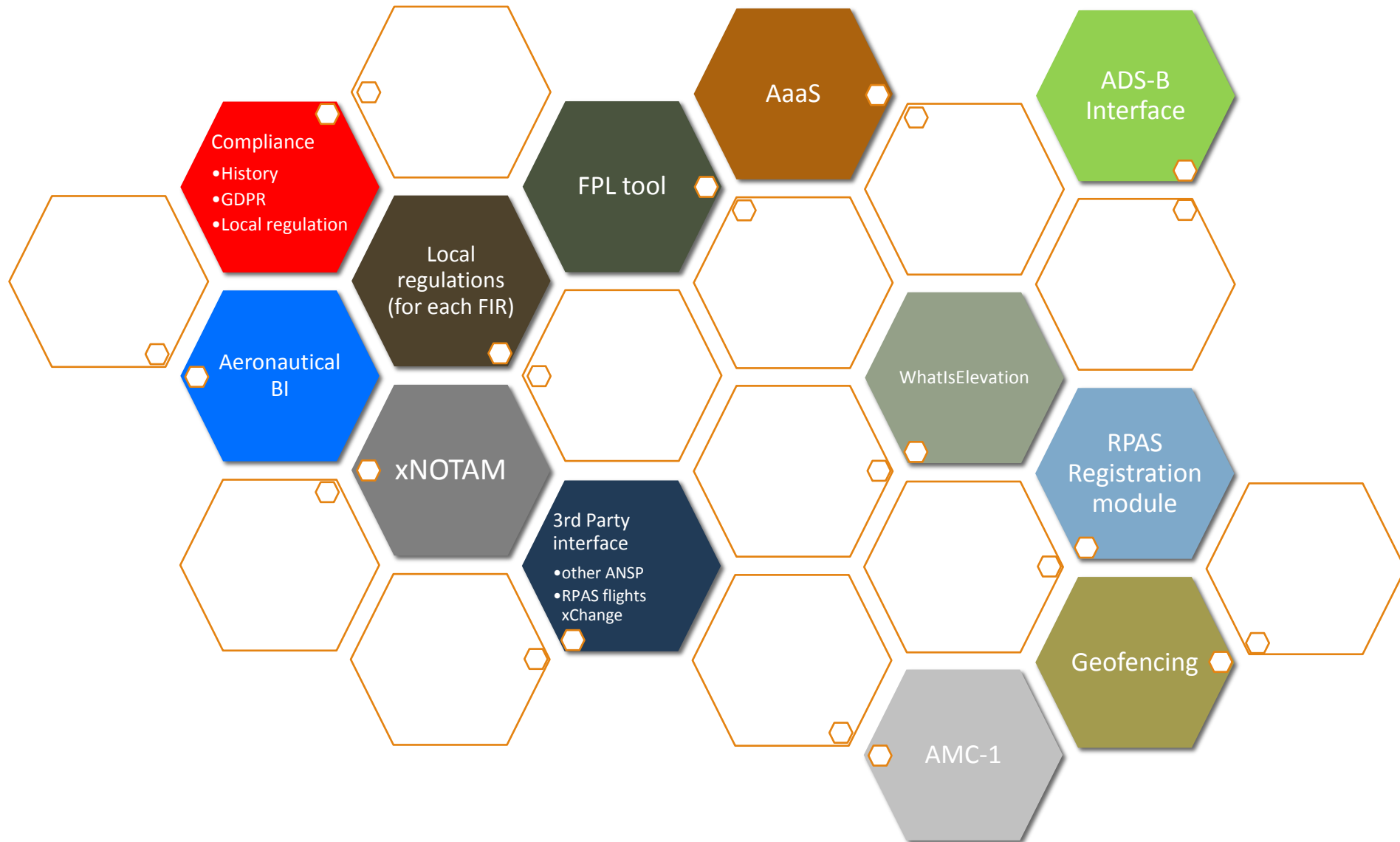
Jan 2017

Nationwide marketing campaign

20 000 DroneRadar users



It is all possible only with software



Conclusions

- Provide UAV operators with **information** and **tools**, than **enforce** the law
- Drone registration will **increase** aviation **safety**
- Only computers can reliably control other computers
- UAV ATC systems must seamlessly integrate into traditional ATC systems
- Innovation in new UAV ATC systems must be embraced by all stakeholders

The aim of the DroneRadar is to vastly improve airspace safety by providing a **simple, low-cost procedural solution** to performing, monitoring and integrating UAV operations with the ATM flow in European airspace

It is a base for creating “**Just Culture**” which by definition is a culture in which front-line operators and others are not punished for their actions, omissions or decisions which are commensurate with their **experience** and **training**, but where gross negligence, willful violations and destructive acts are **not tolerated**