“From the wisdom of the ages to the challenges of modern world”

FIG WORKING WEEK
17–21 MAY SOFIA BULGARIA

from confusion to produce topographic
Italian situation

international proposal
the market situation in Italy

- Sales growing
- Almost all means below 25 Kg
- Market divided between Italian and foreign producers

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Italian offer UAV

- 97% manufacturers
- 3% assemblers
The market situation in Italy

Utilization:
- Imaging: 90%
- Photogrammetry and inspections: 15%

Type of UAV:
- Multicopter: 85%
- Fixed wing: 15%

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The market situation in Italy

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The market situation in Italy

- Operators: 900
- Professional operator: 100

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Training

- Flight schools theoretical: aeroclub
- Flight schools practices: manufacturers
- Photogrammetry from UAV: CNG, GEOWEB, AGIT
- General information: exhibitions, AGIT, geomedia, dronitaly, romadrone

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rule book ENAC

**take-off mass < 25 Kg**
- used by Surveyors

**take-off mass > 25Kg**
- non-technical operations

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**critical operations**
- congested areas
- gatherings of people
- conurbations
- critical infrastructure

**NOT critical operations**
- all those non-critical
- rural areas
- Without gatherings of people
**Authorization Critical Operations**

- Necessary authorization ENAC
- To present specific question

**Statement NOT Critical Operations**

- Declaration by the air company on ENAC website with certification of the observation of rule book

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**Pilot**

- Flight school theoretical
- Flight activity experimental practice
- Recognizable by jacket
- Report any accidents to ENAC

**UAV**

- Plate on UAV and remote control
- Verification systems, flight altitude and rules of the air
- It must be ensured

**Organization**

- Technical organization and adequate working
- Flight Manual
- Manuals of operations and procedures
- Type of operation
- Risk analysis
Visual flight requirements
- max 400 feet
- max 3 km from airport
- during the day with visual
- at least 50 m by persons

Not visual flight requirements
- only with specific authorization by ENAC

Operations with UAV with maximum mass ≤ 2 Kg
- design and construction has qualities of harmlessness
- All areas are considered not critical
- overflight prohibited gatherings people, parades, sporting events, forms of entertainment, etc.

rule book ENAC
Italian producers

• Hardware: fixed wing and multicopter

• SOFTWARE: specialized

• SOFTWARE: photogrammetry
the confusion

• Rule book by ENAC being updated
• Economic investment and training important
• Private clients uninformed
• Government entity without the specific specifications
• Italian authorization valid abroad?

what would the Italian surveyors

• rigid rules but feasible
• opportunity to work abroad
• clear training and qualifying
• unified specifications and international

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proposal to grow

- common international rules
- same specifications for the nations belonging to the FIG

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AGIT there! and you?