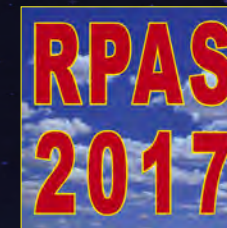




INTERNATIONAL CONFERENCE
19TH ANNUAL EDITION



REMOTELY PILOTED AIRCRAFT SYSTEMS

EUROPEAN CIVIL RPAS POLICY, REGULATORY & INNOVATION FORUM

VENUE, LOCATION & DATE

Royal Military Academy
8 Hobbema straat
Brussels, Belgium
13 & 14 June 2017

ORGANIZED BY



BLYENBURGH & CO
FRANCE

IN COOPERATION WITH



ROYAL MILITARY
ACADEMY, BELGIUM

IN CONTEXT OF THE



INITIATIVE

UNDER THE AUSPICES OF

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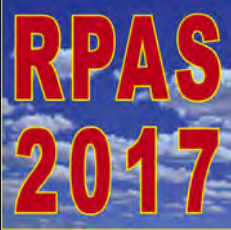


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CONFERENCE PROGRAMME

IN COORDINATION WITH & PARTICIPATION OF





PROGRAMME - TUESDAY - 13 JUNE 2017

MORNING

- Session 1 **National Civil Drone Initiatives**
- 01 09.00-09.15 **Review of the Current RPAS Situation in Japan**
Kakuya Iwata - Japan UAS Industrial Development Association (JUIDA), Japan
- 02 09.15-09.30 **The Spanish RPAS Commission - The Increase in Operational Domains & Compliance Matters**
Guillermo Morato Lara - AESA, Spain
(On behalf of «The Spanish RPAS Commission»)
- 03 09.30-09.45 **What Civilian Drone Professionals are Waiting for in the Short and Middle Term**
Stéphane Morelli - Fédération Professionnelle du Drone Civil, France
- 04 09.45-10.00 **The Public-Private Drones Roadmap of the Netherlands**
Ingrid Michon-Derkzen - Ministry of Infrastructure and the Environment, Directorate General for Mobility & Transport, The Netherlands
- 10.00-10.15 ♦ Interactive Panel Discussion
10.15-11.00 ♦ Refreshment Break
- Session 2 **Policy & Regulations**
- 05 11.00-11.30 **Development of the Future European Rules on Unmanned Aircraft - EASA Basic Regulation, NPA on Open & Specific Drone Categories, U-Space, Informal Expert Group on Drones**
Koen de Vos - European Commission DG Mobility & Transport (MOVE), EU
- 06 11.30-11.45 **Regulation: The State of Play & Way Forward**
Antonio Marchetto - European Aviation Safety Agency (EASA), EU
- 11.45-12.00 ♦ Interactive Panel Discussion
12.00-13.30 ♦ Lunch in the cafeteria of the Royal Military Academy

AFTERNOON

- Session 3 **ATM & U-Space**
- 07 13.30-13.45 **JARUS: The Current State of Play & Priorities**
Yves Morier - European Aviation Safety Agency (EASA), EU
(on behalf of JARUS)
- 08 13.45-14.00 **U-Space - The State of Play**
Alain Siebert - Single European Sky ATM Research Joint Undertaking (SJU), EU
- 09 14.00-14.15 **EU-China Aviation Partnership Project**
Antonio Marchetto - European Aviation Safety Agency (EASA), EU
- 10 14.15-14.30 **RPAS ATM CONOPS**
Dominique Colin - EUROCONTROL, Belgium
- 11 14.30-14.45 **Strategy to Support U-Space Deployment**
Cristiano Baldoni - ENAV, Italy
- 14.45-15.00 ♦ Interactive Panel Discussion
15.00-16.00 ♦ Refreshment Break
- Session 4 **UTM & U-Space**
- 12 16.00-16.15 **UTM Exploration: Testing Mobile Connectivity for Integrating UAS**
Thilo Vogt - Deutsche Flugsicherung (DFS), Germany
- 13 16.15-16.30 **RPAS Regulations & UTM in China**
Liu Hao - Beihang University [Beijing University of Aeronautics & Astronautics (BUAA)], China
- 14 16.30-16.45 **U-Space Considerations & Views**
Mark Palmer, Thales - ATM Business Line, France
- 15 16.45-17.00 **UTM Systems - A Global View**
Marc Kegelaers - UniFly, Belgium
- 16 17.00-17.15 **UTM Architecture & Roadmap**
Marc Kegelaers - Global UTM Association, International
- 17.15-17.30 ♦ Interactive Panel Discussion
17.30-19.00 ♦ Drinks in the bar of the Royal Military Academy
Sponsored by UniFly, Belgium



RPAS 2017

EUROPEAN RPAS POLICY, REGULATORY & INNOVATION FORUM
ROYAL MILITARY ACADEMY - BRUSSELS, BELGIUM - 13 & 14 JUNE 2017



PROGRAMME - WEDNESDAY - 14 JUNE 2017

MORNING

- Session 5 **Applications**
- 17 09.00-09.15 **Inspection of Power Grid Components - End-user Requirements & Drone Limitations**
Uwe Meinberg - Brandenbrug Technical University, Germany
- 18 09.15-09.30 **RPAS in Private Security: Responding to Threats, Seizing Opportunities**
Catherine Piana - Co-Federation of European Security Services (CoESS), Belgium
- 19 09.30-09.45 **UAS for Agriculture: New Frontiers for Youth Entrepreneurship in Africa**
Giacomo Rambaldi - Technical Centre for Agricultural & Rural Cooperation ACP-EU (CTA), The Netherlands
- 20 09.45-10.00 **Using RPAS at Airports: A New Reality**
Robert Jonker - Clear Flight Solutions, The Netherlands
- 10.00-10.15 ♦ Interactive Panel Discussion
10.15-11.00 ♦ Refreshment Break
- Session 6 **National Status & Initiatives**
- 21 11.00-11.15 **SUA Operations and Proficiency in the UK & Introduction to UK's Drone Industry Action Group**
Matthew Lee - ARPAS-UK, UK
- 22 11.15-11.30 **DroneRules: An Awareness Tool for Germany**
Oliver Heinrich - BHO Legal, Germany
(on behalf of the DroneRules.EU Consortium)
- 23 11.30-11.45 **Perspectives and ATM Impact of Detect And Avoid Integration in Tactical and MALE RPAS**
Eduardo Filipone - CIRA, Italy
- 11.45-12.00 ♦ Interactive Panel Discussion
12.00-13.30 ♦ Lunch in the cafeteria of the Royal Military Academy

AFTERNOON

- Session 7 **Applications & Innovation**
- 24 13.30-13.45 **Patroller, A Multi-mission RPAS Focused on Military and Homeland Security Missions**
Paul Vassy - Safran Electronics & Defence, France
- 25 13.45-14.00 **Satellite Navigation for Drones**
Sara Mangoni & Costantino Senatore - EuroUSC-Italia, Italy
(on behalf of the REAL Consortium)
- 26 14.00-14.15 **Registration & Flight Authorization: Safety Before Complexity in a Step-by-step Approach of UTM**
Georg Schöne - Colibrex (LS telcom), Germany
- 27 14.15-14.30 **Establishing a Company-Internal RPAS Flight Organization**
Paul Tobias - ESG Elektroniksystem- und Logistik, Germany
- 28 14.30-14.45 **Drone Zone Austria - Design of a Web Portal for Safe Drone Mission Planning**
Prof Gernot Paulus - Carinthia University of Applied Sciences, Austria
- 14.30-14.45 ♦ Interactive Panel Discussion
14.45-15.45 ♦ Refreshment Break
- Session 8 **Innovation**
- 29 15.45-16.00 **RPAS Safety Conformity Assessment & Regulator Requirements**
Julian Gallego - Alter Technology TÜV Nord, Spain
- 30 16.00-16.15 **RPAS & Communications Infrastructure**
Alexis Martin - Access Partnership, UK
- 31 16.15-16.30 **DroneRules: Project Status Update**
Norbert Frischauf - SpaceTec Partners, Belgium
(on behalf of the DroneRules.EU consortium)
Ulrich Hoffmann - Lufthansa Technik, Germany
(in the process of becoming a DroneRules.EU consortium member)
- 16.30-16.45 ♦ Interactive Panel Discussion
16.45-17.00 ♦ Closing Remarks + End of Conference



RPAS 2017

EUROPEAN RPAS POLICY, REGULATORY & INNOVATION FORUM
ROYAL MILITARY ACADEMY - BRUSSELS, BELGIUM - 13 & 14 JUNE 2017



PRESENTING ORGANISATIONS & THEIR AFFILIATIONS

Access Partnership, United Kingdom

- Communication experts
- ▶ Member of UVS International

AERPAS, Spain

- National RPAS association
- ▶ Member of UVS International

AESA, Spain

- National Aviation Authority
- ▶ Spanish RPAS Commission
- ▶ Member of JARUS
- ▶ Member of the ICAO RPAS Panel

Alter Technology TÜV Nord, Spain

- Procurement, engineering & testing services
- ▶ Member of AERPAS

ARPAS-UK, United Kingdom

- National RPAS association
- ▶ Member of National Drone Industry Action Group (NDIAG)
- ▶ Member of UVS International

Beijing University of Aeronautics & Astronautics, China

- Academic institution
- ▶ Member of GUTMA
- ▶ Member of JARUS
- ▶ Member of ICAO RPAS Panel

Blyenburgh & Co, France

- RPAS-related consultancy, publishing & event organizing
- ▶ Member of DroneRules.EU Consortium
- ▶ Member of SkyOpener Consortium
- ▶ Member of UVS International

Brandenburg University of Technology (B-TU), Germany

- Academic institution
- ▶ Member of CURPAS
- ▶ Member of UAV-DACH
- ▶ Member of UVS International

BHO Legal, Germany

- High technology & aviation law experts

- ▶ Member of UAV-DACH
- ▶ Member of European Drone Lawyers Network
- ▶ Member of DroneRules.EU Consortium
- ▶ Member of UVS International

Carinthia University of Applied Sciences, Austria

- Academic institution

Italian Aerospace Research Centre (CIRA), Italy

- National Research Organisation

Clear Flight Solutions, The Netherlands

- Design, production of & supply of services with RPAS
- ▶ Member of DARPAS
- ▶ Member of UVS International

Colibrex, Germany

- Design & production of airborne radio frequency measurement instruments + RPAS registration & authorisation management tool.
- ▶ Member of GUTMA
- ▶ Member of UVS International

Confederation of European Security Services (CoESS), Europe

- EU association representing the private security industry

Civil Use of RPAS (CURPAS), Germany

- National RPAS association
- ▶ Member of UVS International

Department for Business, Energy & Industrial Strategy (BEIS), UK

- National governmental entity; initiator of the UK National Drone Industry Action Group (NDIAG)

Deutsche Flugsicherung (DFS), Germany

- National Air Navigation Service Provider (ANSP)
- ▶ Member of the SESAR's U-Space Working Group
- ▶ Member of GUTMA

DGAC, France (for reference only)

- Nat. Aviation Authority & Air Navigation Service Provider
- ▶ Member of JARUS

- ▶ Member of the ICAO RPAS Panel
- ▶ Member of the SESAR's U-Space Working Group

DroneRules.EU Consortium, European Union

- Consortium funded by the Executive Agency for Small & Medium-sized Enterprises (EASME) of the European Commission within the context of the COSME Programme

Dutch Drone Platform, The Netherlands

- National test range co-operation initiative

ENAV, Italy

- National Air Navigation Service Provider (ANSP)
- ▶ Member of the SESAR's U-Space Working Group

ESG Elektroniksystem- und Logistik, Germany

- Design & production of electronic systems & software
- ▶ Member of UVS International

EUROCONTROL, International

- Inter-governmental organisation committed to air traffic management & the safety of air navigation.
- ▶ Member of the SESAR's U-Space Working Group
- ▶ Member of JARUS
- ▶ Member of the ICAO RPAS Panel

European Aviation Safety Agency (EASA), European Union

- European Union Agency
- ▶ Member of JARUS
- ▶ Member of the ICAO RPAS Panel

European Commission (EC), European Union

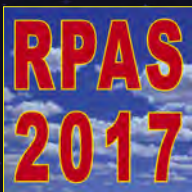
- Directorate General for Internal Market, Industry, Entrepreneurship & SMEs (GROWTH)
- Directorate General for Mobility & Transport (MOVE)

EuroUSC-Italia, Italy

- Qualified Entity
- ▶ Member of UVS International

Fédération Professionnelle du Drone Civil (FPDC), France

- National RPAS association
- ▶ Member of the French Civil Drone Council



PRESENTING ORGANISATIONS & THEIR AFFILIATIONS (cont'd)

SPEAKERS

- ▶ Member of UVS International
- Global UTM Association (GUTMA), Switzerland**
 - International association registered in Switzerland
 - ▶ Member of the SESAR's U-Space Working Group
- Japan UAS Industrial Development Association (JUIDA), Japan**
 - National RPAS association
 - ▶ Member of UVS International
- Joint Authorities for Rulemaking on Unmanned Systems (JARUS)**
 - International group of cooperating national aviation authorities
- Lufthansa Technik, Germany**
 - Internationally licensed aviation-related service provider & creator of an initiative to minimize risks in unmanned aviation (in process of becoming a DroneRules.EU consortium member)
 - ▶ Member of UAV-DACH
- Ministry of Infrastructure & The Environment, The Netherlands**
 - National governmental entity leading the national public/private drone roadmap initiative
 - ▶ Member of the SESAR's U-Space Working Group
- National Drone Industry Action Group (NDIAG), United Kingdom**
 - National public/private initiative overseen by the Department for Business, Energy & Industry Strategy
- REAL Consortium, European Union**
 - GSA-sponsored consortium, aiming at developing navigation systems for relatively small drones, to improve the accuracy & integrity of satellite navigation by exploiting the signals provided by EGNOS
- Safran Electronics & Defence, France**
 - Design & production of RPAS & associated electronics
 - ▶ Member of the Conseil pour les drones civils
- Single European Sky ATM Research Joint Undertaking (SESAR JU), EU**
 - EU public/private partnership managing the development of

- the Single European Sky Air Traffic Management Research Programme
 - ▶ Member of the SESAR's U-Space Working Group
- Space Tec Partners, Belgium**
 - Programme management company
 - ▶ Member of the DroneRules.EU consortium
- Spanish RPAS Commission, Spain**
 - National public/private initiative overseen by AESA
- Technical Centre for Agricultural & Rural Cooperation ACP-EU (CTA), The Netherlands**
 - Joint international institution of African, Caribbean & Pacific (PAC) Group of States & EU involved in activities related to the deployment of RPAS in agriculture
- Thales - ATM Business Line, France**
 - Design & production of ATM & UTM systems
- UAV-DACH, Germany (for reference only)**
 - National RPAS association
 - ▶ Member of UVS International
- UniFly, Belgium**
 - Design & manufacture of UTM systems
 - ▶ Member of the SESAR's U-Space Working Group
 - ▶ Member of GUTMA
 - ▶ Member of UVS International
- UVS International, International**
 - European & International RPAS association
 - ▶ Member of the ICAO RPAS Panel
 - ▶ Member of the ICAO «Space Learning» Group»
 - ▶ Member of EASA's General Aviation Sectorial Committee
 - ▶ Member of EASA's RMT.023 Drone Expert Group
 - ▶ Member of the SESAR's U-Space Working Group

FROM		CATEGORIES
• Austria	1	• Academia
• Belgium	3	• Air Navigation Service Provider (ANSP)
• China	1	• Civil Drone Council
• France	3	• Consulting Company
• Germany	5	• Engineering & testing services
• Italy	2	• European Commission
• Japan	1	• European Consortium
• Netherlands	3	• European Union Agency
• Spain	2	• Inter-governmental Organization
• Switzerland	1	• International Association
• UK	3	• International Organisation
Nat. Aviation Authority	1	• Joint Internat. Institution
ANSPs	2	• Law Firm
European Institutions:		• Developer/Manufacturer (ATM, Detect & Avoid, electronics, RPAS, RPAS registration & authorisation tool, software, UTM)
- EC MOVE	1	• National Association
EU Agencies:		• National Aviation Authority
- EASA	2	• National Ministry
- SESAR JU	1	• National Public/Private Partnership
Regional Association:		• Nat. Research Organization
- CoESS	1	• Regional Association
International Association:		• RPAS Operator
- GUTMA	1	• Service Supplier
International & Inter-governmental Organizations:		• Test Range
- CTA	1	
- EUROCONTROL	1	
- JARUS	1	
Nat. Public/Private Initiatives:		
China, Japan, Netherlands, Spain, UK		
Nat. Associations: France, UK		



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32 ASSOCIATIONS - 29 COUNTRIES



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Germany		http://innovationsforum-unbemannte-flugsysteme.de/en	Peru		www.apevant.org	<i>Note CUAASA, South Africa also covers: Botswana & Namibia</i>		