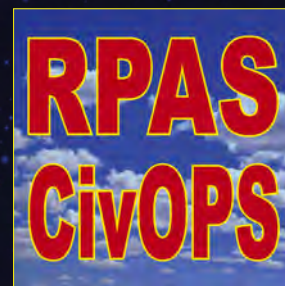




7<sup>th</sup> ANNUAL  
INTERNATIONAL CONFERENCE



# REMOTELY PILOTED AIRCRAFT SYSTEMS

## EUROPEAN CIVIL RPAS OPERATORS & OPERATIONS FORUM

MADRID, SPAIN

23 & 24 January 2019

### CONFERENCE PROGRAMME Unabridged Edition

ORGANIZED  
BY



HOSTED  
BY



IN COORDINATION  
WITH



IN THE CONTEXT OF  
UVS INTERNATIONAL'S



IN COORDINATION WITH THE CIVIL DRONE COUNCILS OF



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# RPAS CivOps 2019 - European Civil RPAS Operators & Operations Forum

## DAY 1 - WEDNESDAY 23 JANUARY 2019 - MORNING

### SESSION 1

- 0 08.00-09.00 **Delegate Sign In**  
00 09.00-09.05 **Opening Words**  
01 09.05-09.15 **Welcome Keynote Speech**  
Isabel Maestre, Director General - AESA, Spain  
02 09.15-09.30 **Spanish Drone Commission (SDC): Introduction & Activities**  
Marta Lestau - AESA, Spain  
Juan José Sola Banasco - AESA, Spain  
03 09.30-09.40 **Airworthiness Requirements for RPAS**  
Cristina Cuerno-Rejado - Universidad Politécnica de Madrid (UPM), Spain  
On behalf of SDC Group 1: Technology & Security  
04 09.40-09.50 **Operational Requirements for New Scenarios**  
Gregorio Peraleda - AESA, Spain  
On behalf of SDC Subgroup 2.5  
05 09.50-10.00 **Spanish RPAS Sector Support & Promotion**  
Félix Herrero - AESA, Spain - On behalf of SDC Group 3  
10.00-10.20 Panel Discussion - **20 Minutes**  
10.20-11.10 Break - **50 Minutes**

### SESSION 2

- 06 11.10-11.20 **Minimum System Requirements for RPAS**  
Anastasio Sanchez - FADA-CATEC, Spain - On behalf of SDC Subgroup 1.2  
07 11.20-11.30 **Spanish Regulation of the Use of Radio Spectrum for RPAS**  
Santiago Pascual Calviño - Ministry of Economy - Digital Advancement, Spain - On behalf of SDC Subgroup 1.3  
08 11.30-11.40 **Process to Implement RPA Regulations in Spain**  
Juan Ignacio Rueda - ENAIRE, Spain - On behalf of SCDC Subgroup 2.4  
09 11.40-11.50 **U-Space & its Importance for the Development of the Sector: Vision of the Regulator**  
Andres Lopez Morales - Ministry of Public Works & Transport, Spain  
10 11.50-12.00 **ENAIRE Vision for Spanish U-Space**  
Daniel Garcia-Monteavaro Vizcaino - ENAIRE, Spain  
12.00-12.30 Panel Discussion - **30 Minutes**  
12.30-14.00 Lunch - **90 Minutes**

## DAY 1 - WEDNESDAY 23 JANUARY 2019 - AFTERNOON

### SESSION 3

- 11 14.00-14.10 **UAS/RPAS Regulation & Implementation**  
Koen de Vos, EC DG MOVE, European Union  
12 14.10-14.20 **EASA: On-going & Upcoming Activities Relative to Drones, U-Space & Urban Air Mobility**  
Yves Morier - EASA, European Union  
13 14.20-14.30 **RPAS Maritime Surveillance Services by the European Maritime Safety Agency**  
Olaf Trieschmann - European Maritime Safety Agency (EMSA), European Union  
14 14.30-14.40 **European Network of U-Space Demonstrators**  
Munish Khurana - EUROCONTROL, International  
15 14.40-14.50 **CORUS: Activity Updates**  
Cristina Barrado - Universitat Politècnica De Catalunya, Spain - On behalf of CORUS consortium  
16 14.50-15.00 **Full Speed Ahead for Drone Traffic Integration**  
Ludovic Legros - Single European Sky ATM Research Joint Undertaking (SESAR JU), EU  
17 15.00-15.10 **Drones in the Transport System: Acceptability & Integration**  
Katja Schechtner - Organisation for Economic Cooperation & Development (OECD) - International Transport Forum (ITF)  
15.10-15.30 Panel Discussion - **20 Minutes**  
15.30-16.30 Break - **60 Minutes**

## SESSION 4

- 18 16.30-16.40 **The Evolving UTM at DFS**  
Ralf Heidger - Deutsche Flugsicherung (DFS), Germany  
19 16.40-16.50 **Traffic Management Solution & Services for the Integration of Autonomous Operations**  
Isabel Del Pozo de Poza - Airbus, Spain  
20 16.50-17.00 **Keeping Safety in UTM**  
Patricia Hervias Vallejo - INDRA, Spain  
21 17.00-17.10 **Safety Rules for Test Ranges**  
Michael Maes - EuroUSC-BelLux, The Netherlands  
22 17.10-17.20 **Test Ranges for UAS: The Challenges**  
Erwin V. Lauschner - bavAIRia e.v., Germany  
23 17.20-17.30 **Standard Scenarios for RPAS Flight Testing in Segregated Airspace**  
Anastasio Sanchez - FADA-CATEC, Spain  
17.30-18.00 Panel Discussion - **30 Minutes**  
18.00-19.30 **Event Cocktail - Sponsored by Unify, Belgium**

## DAY 2 - THURSDAY 24 JANUARY 2019 - MORNING

### SESSION 5

- 24 08.45-09.05 **Implementing New Standard Scenarios for Professional Use**  
Séverine Charmant - Direction Générale de l'Aviation Civile (DGAC), Direction du Transport Aérien (DTA), France  
Nicolas Marcou - Direction Générale de l'Aviation Civile (DGAC), Direction de la Sécurité de l'Aviation Civile (DSAC), France  
25 09.05-09.15 **Pilot Training & Qualification: The French View**  
Erwin George - ENGIE, France - On behalf of the French Civil Drone Council  
26 09.15-09.35 **The German National Drone Council - Conclusions After One Year**  
Raimund Kamp (Aviation) & Ulrich Reinfried (Digital Innovations) - Federal Ministry of Transport & Digital Infrastructure, Germany  
27 09.35-09.45 **TITUS: Introduction & Activities**  
Uwe Meinberg - Test, Innovation & Technology Center for Autonomous Unmanned Vehicles (TITUS), Germany  
28 09.45-09.55 **Using UAV/ROV and AUV in Port Safety & Security Procedures - Recent Real-Life Experience**  
Michael Stein - Stein Maritime Consulting, Germany  
09.55-10.15 Panel Discussion - **20 Minutes**  
10.15-11.00 Break - **45 Minutes**

### SESSION 6

- 29 11.00-11.15 **Implementation of the European Drone Regulation in The Netherlands**  
Ron van de Leijgraaf - Ministry of Infrastructure & Water Management, The Netherlands  
30 11.15-11.30 **Interoperability & Standardization**  
Maarten Bonnema - Inspectie Leefomgeving & Transport (ILT) (CAA), The Netherlands  
31 11.30-11.40 **Safe Integration of Drones**  
Christiaan Lubbers - Luchtverkeersleiding Nederland (LVNL), The Netherlands  
32 11.40-11.50 **Building Communities to Stimulate the Drone Market - Progress of the Interreg-funded ICARes Project**  
Rob van Nieuwland - DARPAS, The Netherlands  
On behalf of the ICARes Consortium  
33 11.50-12.00 **U-Space & The Unify Perspective: A Capability Update**  
Marc Kegelaers, Unify, Belgium  
12.00-12.20 Panel Discussion - **20 Minutes**  
12.20-13.50 Lunch - **90 Minutes**

## DAY 2 - THURSDAY 24 JANUARY 2019 - AFTERNOON

### SESSION 7

- 34 13.50-14.00 **European UAS Standards Coordination Group**  
Sergiu Marsac - EUROCAE, France



- 35 14.00-14.10 **European Harmonized Standards & CE Marking for UAS in the Open Category**  
Karim Benmeziene - Bureau de Normalisation de l'Aéronautique et de l'Espace, France - On behalf of ASD STAN
- 36 14.10-14.20 **Product Safety, CE Marking & Other Aspects to Assess Prior to Operation**  
Carolina Jimenez - Alter Technology TÜV Nord, Spain
- 37 14.20-14.30 **DroneRules PRO: Online Information & Training Resources for Privacy & GDPR Compliance**  
Filippo Marchetti - Trilateral Research & Consulting, United Kingdom  
On behalf of the DroneRules.PRO Consortium
- 38 14.30-14.40 **Commercial Operations and Pilot Training: Perspectives from Australia**  
David Cole, FlyFreely, Australia
- 39 14.40-14.50 **Helicus Aero Initiative - Medical Transport by UAS**  
Mikael Shamim - Helicus, Belgium
- 14.50-15.20 Panel Discussion - **30 Minutes**  
15.20-16.00 Break - **40 Minutes**
- SESSION 8**
- 40 16.00-16.10 **Using the SORA Method to Operate our Skyeotech System Without A Remote Pilot**  
Stéphane Morelli - Azur Drones, France
- 41 16.10-16.20 **The Rescue Drones Network**  
Luca Ricardo Viganotti - Rescue Drones Network, Italy
- 42 16.20-16.30 **Risk Management SORA Methodology: Applied to Drone Swarms**  
Eric Gaillard - Star Engineering, France
- 43 16.30-16.40 **Keys for Success in Large Scale Commercial RPAS Operations**  
Eli Neeman - Israel Aerospace Industries, Military Aircraft Group, Israel
- 44 16.40-16.50 **European Drone Regulation – Enabling Cross-Border Operations**  
Michael Wieland - UAV DACH, Germany
- 45 16.50-17.00 **Drone Information Management Showcase Services in U-Space**  
Pablo Sanchez-Escalonilla - Centro de Referencia de Investigación, Desarrollo e Innovación ATM A.I.E. (CRIDA), Spain
- 17.00-17.15 Panel Discussion - **15 Minutes**  
17.15-17.30 Closing Words - **15 Minutes**

## PRESENTING ORGANISATIONS & AFFILIATIONS

### Agencia Estatal De Seguridad Aerea (AESA), Spain

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

### Airbus, Spain

- Design & manufacture various types of drones
- Design & manufacture of UTM systems
- ▶ Member of:
  - SESAR co-funded PODIUM Consortium
  - European U-Space Demonstrator Network

### Alter Technology TÜV Nord, Spain

- Consultancy services (RPAS-related functional safety, operational safety risk analysis, product safety).

### ASD-STAN, European Union

- European standards organisation
- ▶ Member of European UAS Standards Coordination Group

### Azur Drones, France

- Drone & sub-system manufacturer & drone operator
- ▶ Member of:
  - French Civil Drone Council
  - UVS International

### bavAIRia e.v., Germany

- Bavarian aerospace cluster
- ▶ Member of:
  - UAV DACH
  - German Civil Drone Council

### Blyenburgh & Co, France

- RPAS-related consultancy, publishing & event organizer
- ▶ Member of EC co-funded DRONERULES.EU, SKYOPENER & AW-DRONES consortia
- ▶ Member of UVS International

### Bureau de Normalisation de l'Aéronautique et de l'Espace, France

- French national normalisation institute

### Centro de Referencia de Investigación, Desarrollo e Innovación ATM A.I.E. (CRIDA), Spain

- National governmental entity

### Civil Drone Commission, Spain

- National public/private partnership overseen by AESA

### Civil Drone Council, Germany

- German national public/private partnership overseen by the Federal Ministry of Transport & Digital Infrastructure

### Civil Drone High Level Consultation Group, The Netherlands

- National public/private initiative overseen by ILT

### Conseil pour les drones civils (CDC), France

- National public/private partnership overseen by the DGAC

### DARPAS, The Netherlands

- National RPAS association
- ▶ Member of:
  - Dutch national public/private drone initiative
  - ICAReS consortium
  - UVS International

### Deutsche Flugsicherung (DFS), Germany

- National Air Navigation Service Provider
- ▶ Member of:
  - German Civil Drone Council
  - SESAR co-funded CORUS & USIS consortia
  - European U-Space Demonstrator Network

### Direction Générale de l'Aviation Civile (DGAC) - Direction du Transport Aérien (DTA), France

- National Aviation Authority & Air Navigation Service Provider
- ▶ Member of:
  - French Civil Drone Council
  - JARUS
  - ICAO RPAS Panel
  - SESAR's U-Space Working Group
- ▶ Member of SESAR co-funded CORUS, PODIUM & USIS consortia

### Direction Générale de l'Aviation Civile (DGAC) - Direction de la Sécurité de l'Aviation Civile (DSAC), France

- Air Navigation Service Provider
- ▶ Member of:
  - French Civil Drone Council
  - JARUS
  - ICAO RPAS Panel
  - SESAR's U-Space Working Group
- ▶ Member of SESAR co-funded CORUS, PODIUM & USIS Consortia

### DroneRules.PRO, European Union

- EU (EASME)-funded consortium dedicated to increasing awareness on drone-related regulations, insurance and data protection & privacy

### ENAIRe, Spain

- National air navigation service provider
- ▶ Member of Spanish RPAS Commission
- ▶ Member of SESAR co-funded DOMUS & SAFEDRONE consortia

### ENGIE, France

- Electricity & gas supplier (RPAS operator)
- ▶ Member of:
  - French Civil Drone Council
  - Fédération Professionnelle du Drone Civil
  - UVS International

## **EUROCAE, France**

- European aviation standards organisation
- ▶ Member of: ● European UAS Standards Coordination Group
  - UVS International

## **EUROCONTROL, International**

- Inter-governmental organisation committed to air traffic management & the safety of air navigation.
- ▶ Member of: ● SESAR's U-Space Working Group
  - JARUS
  - ICAO RPAS Panel
- ▶ Member of SESAR co-funded CORUS & PODIUM consortia
- ▶ Member of European U-Space Demonstrator Network

## **European Aviation Safety Agency (EASA), European Union**

- European Union Agency
- ▶ Member of: ● EC's Informal Expert Group on Drones
  - European UAS Standards Coordination Group
  - JARUS
  - ICAO RPAS Panel
- ▶ Member of European U-Space Demonstrator Network

## **European Commission (EC), European Union**

- Directorate General for Mobility & Transport (MOVE)
- ▶ Member of: ● ICAO RPAS Panel
  - European UAS Standards Coordination Group
- ▶ Member of European U-Space Demonstrator Network

## **European Maritime Safety Agency (EMSA), European Union**

- European Union Agency

## **EuroUSC-BeNeLux, The Netherlands**

- Qualified Entity
- ▶ Member of UVS International

## **FADA-CATEC, Spain**

- RPAS Research Organisation & Test Range
- ▶ Member of: ● Spanish RPAS Commission
  - UVS International
- ▶ Member of SESAR co-funded DOMUS & SAFEDRONE consortia

## **Helicus, Belgium**

- Specialized consulting company & drone operator
- ▶ Member of: ● SESAR co-funded SAFIR Consortium
  - European U-Space Demonstrator Network
  - UVS International

## **ICAReS Project, Belgium/France/The Netherlands/UK**

- Interreg-financed cross border innovation cluster on Remote Sensing applications in agriculture, water, infrastructure & nature management sectors, federating knowledge institutes, SMEs, trade associations, governmental organisations.

## **INDRA, Spain**

- Design & manufacture of UTM systems
- ▶ Member of SESAR co-funded DOMUS & SAFEDRONE consortia
- ▶ Member of Spanish RPAS Commission

## **Inspectie Leefomgeving en Transport - Directie Luchtvaart, Vergunningverlening (ILT), The Netherlands**

- National Aviation Authority - Responsible for granting operator certificates & flight permissions
- ▶ Member of Dutch national public/private drone partnership

## **Israel Aerospace Industries, Israel**

- Design & manufacture of drones
- ▶ Member of EC co-funded AW-DRONES & SESAR co-funded AIRPASS & SAFEDRONE consortia

## **Luchtverkeersleiding Nederland, The Netherlands**

- National air navigation service provider
- ▶ Member of Dutch national public/private drone initiative

## **Ministry of Economy – Digital Advancement, Spain**

- National governmental entity

## **Ministry of Infrastructure & Water Management, The Netherlands**

- National governmental entity

## **Ministry of Public Works & Transport, Spain**

- National governmental entity

## **Ministry of Transport & Digital Infrastructure, Germany**

- Federal governmental entity
- ▶ Member of: ● JARUS
  - German Civil Drone Council

## **Organisation for Economic Cooperation & Development (OECD) - International Transport Forum, International**

- Intergovernmental organisation

## **Rescue Drones Network, Italy**

- Non-profit association federating drone operators in the rescue domaine from various countries

## **Single European Sky ATM Research (SESAR) Joint Undertaking (JU), European Union**

- EU agency responsible for ATM-related research
- ▶ Leader of the «U-Space Working Group»
- ▶ Member of European U-Space Demonstrator Network

## **Star Engineering, France**

- Specialized consulting company

## **Stein Maritime Consulting, Germany**

- Specialized consulting company & drone operator

## **Test, Innovation & Technology Center for Autonomous Unmanned Vehicles (TITUS), Germany**

- Regional public/private co-financed research institute

## **Trilateral Research & Consulting, United Kingdom**

- Specialized consulting company
- ▶ Member of EC (EASME) co-funded DRONERULES.EU & DRONERULES.PRO consortia
- ▶ Member of UVS International

## **UAV DACH, Germany**

- National RPAS association
- ▶ Member of: ● German Civil Drone Council
  - UVS International

## **UniFly, Belgium**

- Design & manufacture of UTM systems
- ▶ Member of: ● SESAR's U-Space Working Group
  - GUTMA
  - UVS International
- ▶ Member of European U-Space Demonstrator Network
- ▶ Member of SESAR co-funded CORUS, GOF USPAC, PODIUM, SAFEDRONE, SAFIR, VUTURA, USIS consortia

## **Universidad Politecnica de Madrid (UPM), Spain**

- Academic institution & research organisation
- ▶ Member of Spanish RPAS Commission

## **Universitat Politècnica De Catalunya, Spain**

- Academic institution & research organisation
- ▶ Member of Spanish RPAS Commission

## **UVS International, International**

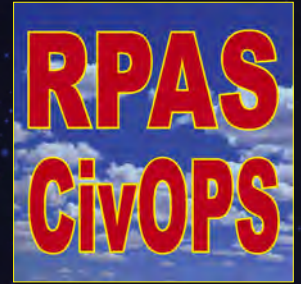
- International RPAS association
- ▶ Member of: ● ICAO RPAS Panel
  - ICAO «Space Learning» Group
  - EC's Informal Expert Group on Drones
  - EASA's General Aviation Sectorial Committee
  - EASA's RMT.023 Drone Expert Group
  - SESAR's U-Space Working Group
  - European UAS Standards Coordination Group
  - JARUS Stakeholder Consultation Body
  - European U-Space Demonstrator Network
  - OECD's Drone Working Group





7<sup>th</sup> ANNUAL EDITION

# RPAS CivOps 2019



## European Civil RPAS Operators & Operations Forum

### SPEAKERS FROM

● Australia	1
● Belgium	2
● European Commission	1
● EU Agencies	3
● EU Co-funded Consortia	5
● EU Standards Organisations	3
● France	5
● Germany	6
● Intergovernmental Organisations	2
● International Association	1
● Israel	1
● Italy	1
● Netherlands	5
● Spain	16
● UK	1

### QUANTITY OF PRESENTATIONS

<b>23 January 2019</b>	4 Plenary Sessions	<b>23 Presentations</b>
<b>24 January 2019</b>	4 Plenary Sessions	<b>22 Presentations</b>
<b>Total</b>		<b>45 Presentations</b>

### SPEAKER CATEGORIES

● Academia	2
● Air Navigation Service Provider	4
● Civil Drone Council (National)	4
● Consulting Company	6
● Energy Supplier	1
● European Commission	1
● European Union (EU) Agency	3
● EU-funded Consortia	5
● Intergovernmental Organisation	3
● International Association	1
● National RPAS Association	2
● National Aviation Authority	5
● National Governmental Agency	2
● National Ministry	4
● National Public/Private Partnership	4
● Qualified Entity	1
● Regional Promotion Organisation	1
● Research Organisation	2
● RPAS Manufacturer	1
● RPAS Manufacturer/Operator	2
● RPAS Operator	3
● Standards Organisation	3
● Test Range	2
● UTM Developer	4