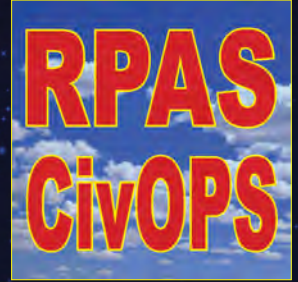


8<sup>th</sup> ANNUAL EDITION



# RPAS CivOPS 2020 EUROPEAN CIVIL RPAS OPERATORS & OPERATIONS FORUM



**Harmonizing National Approaches  
To EU Regulation Implementation**

The Hague, The Netherlands

14 & 15 January 2020

## CONFERENCE PROGRAMME & FEES

ORGANIZED BY



VENUE



IN CONTEXT OF



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# RPAS CivOps 2020 - Conference Programme

## DAY 1 - TUESDAY 14 JANUARY 2020 - MORNING

### SESSION 1 - OPERATIONS

- 0 08.00-08.45 **Delegate Sign In**
- 00 08.45-08.50 **Opening Words - Peter van Blijenburgh**
- 01 08.50-09.00 **Welcome Speech - Ties van Zanten** - Ministry of Infrastructure & Water Management, The Netherlands
- 02 09.00-09.15 **Collection & analysis of data on UAS operations**  
Lennaert Speijker - Netherlands Aerospace Centre (NLR), The Netherlands
- 03 09.15-09.30 **RPAS potential for EU border surveillance**  
Zdravko Kolev - FRONTEX European Border and Coast Guard Agency
- 04 09.30-09.45 **Compliant & safe drone operations for a connected world**  
Karim Cosslett - Thales UK, Soarizon, UK
- 05 09.45-10.00 **Standards: A key enabler for the development of the drone market**  
Séverine Charmant - Direction Générale de l'Aviation Civile (DGAC) - DTA, France
- 06 10.00-10.15 **Drone legislation adapted to disasters**  
Lt Vendelin Clicques - International Emergency Drone Organisation
- 10.15-10.30 Audience Questions **15 minutes**
- 10.30-11.00 Break **30 minutes**

### SESSION 2 - PILOT TRAINING & QUALIFICATION

- 07 11.00-11.15 **Overview of the drone pilot training & qualification process in France**  
Erwin George - ENGIE, France
- 08 11.15-11.30 **Should UAS pilots be certified ?**  
Matthieu Gérard - DeltaCopter, Belgium
- 09 11.30-11.45 **Towards EU drone pilot licenses - Some practical considerations**  
Joost Vreeken - Netherlands Aerospace Centre (NLR), The Netherlands
- 10 11.45-12.00 **eDrone - Creating new competences & opportunities through specialized training**  
Augustin Lupu - UVS Romania, Romania [on behalf of the eDrone consortium (FR, IT, PL, RO)]
- 11 12.00-12.15 **Resources, methodology and contents of an open category remote pilot online course**  
Antonio Mota - Zangano, Spain
- 12 12.15-12.30 **Exploring the borders - Examination eX:plained**  
Lisette Heijma - eX:plain, The Netherlands
- 12.30-12.45 Audience Questions **15 minutes**
- 12.45-14.00 Lunch **75 minutes**

## DAY 1 - TUESDAY 14 JANUARY 2020 - AFTERNOON

### SESSION 3 - ECONOMIC & SOCIETAL BENEFITS

- 13 14.00-14.15 **Rijkswaterstaat & Drones**  
- Nancy Scheijven - Rijkswaterstaat, The Netherlands  
- Ariea Vermeulen - Rijkswaterstaat, The Netherlands
- 14 14.15-14.30 **RPAS maritime surveillance services - Experience after multiple deployments**  
Olaf Trieschmann - European Maritime Safety Agency, EU
- 15 14.30-14.45 **Autonomous drone operations**  
Niels Klink, Mapture, The Netherlands
- 16 14.45-15.00 **The future of insurance for connected drone fleets**  
Thomas Wilson - Flock Cover, United Kingdom
- 17 15.00-15.15 **Drones and Natura2000**  
Roland van der Vliet - Bureau Waardenburg, The Netherlands
- 18 15.15-15.30 **Drones in the Railway Environment**  
Jeroen van den Tweel - ProRail, The Netherlands
- 15.30-15.45 Audience Questions **15 minutes**
- 15.45-16.30 Break **55 minutes**

### SESSION 4 - TEST RANGES

- 19a 16.30-16.40 **The current situation in Belgium relative to pilot training & anticipated developments**  
Patrick Mascart - ID2MOVE, Belgium
- 19b 16.40-16.50 **International standards as bridges between testing and training facilities**

- 20 16.50-17.05 **ICAREs Test Range Report**  
Rob van Nieuwland - DARPAS, The Netherlands (on behalf of the ICAREs consortium)
- 21 17.05-17.20 **Enabling Experimental BVLOS Operations on Dutch Test Ranges - Reality or Illusion**  
Rudy Muller - RPAS Services, The Netherlands
- 22 17.20-17.35 **Joint effort to develop experimental zones within the European framework**  
Rob Nispeling - Aviolanda Aerospace, The Netherlands (on behalf of Dutch Drone Centre Aviolanda)
- 17.35-17.50 Audience Questions **15 minutes**
- 18.00-19.00 Open Bar + Hot & Cold Snacks **60 minutes**
- Sponsor 
- Speech by Ties van Zanten - Ministry of Infrastructure & Water Management
  - Franco-Dutch Document Remittance
  - Awards Ceremony

## DAY 2 - WEDNESDAY 15 JANUARY 2020 - MORNING

### SESSION 5 - ICAREs CLUSTER

- 23 08.45-09.00 **ICAREs Cluster**  
Sven Willemsen - Municipality of Woensdrecht, The Netherlands (on behalf of ICAREs consortium)
- 24 09.00-09.15 **Mapping & Surveying - Reflections on current & future applications in the water & infra sector**  
Jarno de Jong, Geo Infra, The Netherlands
- 25 09.15-09.30 **Drone technique in educational programmes**  
François Coppens - Zuidwesthoek College, The Netherlands
- 26 09.30-09.45 **BVLOS Experiments in Woensdrecht**  
Rudy Muller - On behalf of Wiebe Logghe - REWIN, The Netherlands
- 27 09.45-10.00 **ICAREs Strategy & Actions Plans**  
Rob van Nieuwland - DARPAS, The Netherlands (on behalf of the ICAREs consortium)
- 10.00-10.15 Audience Questions **15 minutes**
- 10.15-11.00 Break **45 minutes**

### SESSION 6 - SORA

- 28 11.00-11.15 **Drone REGIM WG1.1: First Deliverable**  
Stéphane Morelli - Azur Drones, France (on behalf of Drone REGIM WG1.1)
- 29 11.15-11.30 **Automated SORA Tool**  
Stephan van Vuren - AirHub, The Netherlands
- 30 11.30-11.45 **Road to SORA V2.0 and Beyond. Modularity and real use case illustration**  
Eric Gaillard - Star Engineering, France
- 31 11.45-12.00 **The use of SORA for the preparation of BVLOS flight operations**  
Nicolas Sonnet - Aeromapper, France
- 32 12.00-12.15 **Public acceptance of UAS: Address it, or risk a serious hit**  
Thorsten Indra - AerialCam Services, Germany
- 12.15-12.30 Audience Questions **15 minutes**
- 12.30-14.00 Lunch **90 minutes**

## DAY 2 - WEDNESDAY 15 JANUARY 2020 - AFTERNOON

### SESSION 7 - U-SPACE: THE EU APPROACH

- 33 14.00-14.10 **The challenge of coordinating national approaches**  
Philip Butterworth-Hayes - Unmanned Airspace, UK
- 14.10-15.00 **Panel discussion on U-Space with 6 panelists:**
- a) Daniel Garcia-Monteavaro Vizcaino - ENAIRE, Spain
  - b) Nicolas Marcou, DGAC-DSAC, France
  - c) Hendrik-Jan van der Gucht - skeyes, Belgium
  - d) Ron van de Leijgraaf - Ministry of Infrastructure & Water Management, The Netherlands
- 15.00-15.15 Audience Questions **15 minutes**
- 15.15-16.00 Break **45 minutes**

### SESSION 8 - EU REGULATION IMPLEMENTATION

- 34 16.00-16.15 **Cooperation of EU member states on implementing the EU regulations**  
Ron van de Leijgraaf - Ministry of Infrastructure &

35	16.15-16.30	Water Management, The Netherlands <b>The Spanish approach to the implementation of the EU regulation</b> Diego Fernández Varela - AESA, Spain
36	16.30-16.45	<b>Transiting to European regulation on UAS : challenges and solutions</b> Nicolas Marcou - Direction Générale de l'Aviation Civile (DGAC) - DSAC, France
37	16.45-17.00	<b>The Belgian implementation approach</b> Kris Clarysse - Federal Public Service Mobility & Transport, Belgium
38	17.00-17.15	<b>The German Implementation approach</b> Raimund Kamp - Federal Ministry of Transport & Digital Infrastructure, Germany
39	17.15-17.30	<b>The Dutch approach to zoning – Societal embracement of drones</b> Petra Syaifoel - Ministry of Infrastructure & Water Management, The Netherlands
	17.30-17.45	Audience Questions <b>15 minutes</b>
	17.45-17.55	Closing Words <b>10 minutes</b>

## SPEAKERS - LOGO, PHOTO, BIO, ABSTRACT

## Presenting Organisations & Affiliations

### AerialCam Services, Germany

- Drone operator & drone-related consultancy
- ▶ Member of: ● UVS International
- ✦ Participant: ● Drone REGIM

### Aeromapper, France

- Drone & sub-system manufacturer & drone operator

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

- National Aviation Authority
- ▶ Member of: ● Spanish RPAS Commission
- ICAO RPAS Panel
- JARUS
- EU regulation implementation coordination group
- ✦ Participant: ● Drone REGIM

### AirHub, The Netherlands

- Drone-related regulatory consultancy
- ▶ Member of: ● Dutch national public/private drone initiative
- UVS International
- ✦ Participant: ● Drone REGIM

### Atechsys, France

- Drone & sub-system manufacturer & drone operator, test range operator
- ▶ Member of: ● French Civil Drone Council
- UVS International
- ✦ Participant: ● Drone REGIM

### Aviolanda, The Netherlands

- Drone test range operator
- ▶ Member of: ● ICAREs Consortium
- Dutch Drone Group

### AW Drones Consortium, Europe

- EU Horizon 2020 funded Research & Innovation Programme

### Azur Drones, France

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

### Blyenburgh & Co, France

- RPAS-related consultancy, publishing & event organizer
- ▶ Member of: ● AW-Drones & various EC co-funded consortia
- UVS International
- ✦ Participant: ● Drone REGIM

### Bureau Waardenburg, The Netherlands

- Research and advice consultancy in the fields of ecology, nature, the environment and landscape design

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

- National public/private drone initiative

### 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

- ✦ Participant: ● Drone REGIM

### DeltaCopter, Belgium

- RPAS Flight School
- ▶ Member of: ● Belgian Civil Drone Council
- UVS International

- ✦ Participant: ● Drone REGIM

### 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), France

#### - Direction de la Sécurité de l'Aviation Civile (DSAC)

#### - Direction du Transport Aérien (DTA)

- Air Navigation Service Provider
- ▶ Member of: ● French Civil Drone Council
- ICAO RPAS Panel
- JARUS
- EU regulation implementation coordination group
- SESAR's U-Space Working Group
- SJU co-funded CORUS, PODIUM & USIS consortia

### Dutch Certified RPAS Operators (DCRO), The Netherlands

- National RPAS operators association
- ▶ Member of: ● Dutch national public/private drone initiative

### eDrone Consortium, Greece/Italy, Poland/Romania

- Project, co-funded by the Erasmus+ Programme of the EU, aiming to help people learn about drones and prepare themselves for the future. It supports the implementation of Industry 4.0 by developing drone-related learning tools for Vocational Education & Training (VET)

### ENAI, 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
- UVS International

- ✦ Participant: ● Drone REGIM

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

- EU agency providing technical assistance & support to the EC & Member States in the development & implementation of EU legislation on maritime safety, pollution by ships, maritime security. It has also has operational tasks in the field of oil pollution response, vessel monitoring, long range identification & tracking of vessels.

### eX:plain, The Netherlands

- Vocational assessment & certification testing research
- ▶ Member of: ● UVS International
- ✦ Participant: ● Drone REGIM

### Federal Public Service Mobility & Transport, Germany

- National Aviation Authority
- ▶ Member of: ● Belgian Civil Drone Council
- EU regulation implementation coordination group

### Flock Cover, United Kingdom

- Start-up insurance supplier

### FRONTEX - European Border and Coast Guard Agency

- EU agency

### Geo Infra, The Netherlands

- Drone operator
- ▶ Member of: ● UVS International
- ✦ Participant: ● Drone REGIM

### 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.

### ID2MOVE, Belgium

- Incubator for autonomous systems
- ▶ Member of: ● Belgian Civil Drone Council
- UVS International

- ✦ Participant: ● Drone REGIM

**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

**International Emergency Drone Organisation**

■ Non-profit association federating emergency responders (police & fire fighters) from 35 countries

▶ Member of: ● UVS International

★ Participant: ● Drone REGIM

**Mapture, The Netherlands**

■ Drone & sub-system manufacturer & drone operator

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

■ National Aviation Authority

▶ Member of: ● ICAO RPAS Panel

● JARUS

● EU regulation implementation coordination group

● Dutch national public/private drone initiative

★ Participant: ● Drone REGIM

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

■ Federal governmental entity

▶ Member of: ● JARUS

● German Civil Drone Council

● EU regulation implementation coordination group

**Municipality of Woensdrecht, The Netherlands**

■ Municipality

▶ Member of: ● ICAReS consortium

**National Aviation Authority (NAA) Regulation Implementation Coordination (NAARIC) Group, EU**

■ Group of NAAs (AT, BE, DE, ES, FR, IT, LU, NL, PL, UK) endeavoring to coordinate their national approaches to the implementation of the EU drone regulation.

**Netherlands Aerospace Centre (NLR), The Netherlands**

■ Research organisation, drone-related consultancy, test range operator, RPAS operator

▶ Member of: ● Dutch national public/private drone initiative

● Various EC-funded drone-related consortia

● UVS International

★ Participant: ● Drone REGIM

**ProRail, The Netherlands**

■ Independent organisation managing the Dutch railroad network

**REWIN, The Netherlands**

■ Regional economic development organisation

▶ Member of: ● ICAReS consortium

**Rijswaterstaat, The Netherlands**

■ Directorate-General for Public Works & Water Management, responsible for the design, construction, management & maintenance of infrastructure facilities. Drone operator.

★ Participant: ● Drone REGIM

**RPAS Services, The Netherlands**

■ Drone operator & drone-related consulting services

▶ Member of: ● UVS International

★ Participant: ● Drone REGIM

**skeyes, Belgium**

■ Air navigation service provider

▶ Member of: ● Belgian Civil Drone Council

● UVS International

★ Participant: ● Drone REGIM

**Spanish Drone Commission (SDC), Spain**

■ National public/private partnership overseen by AESA

**Star Engineering, France**

■ Specialized consulting company

▶ Member of: ● UVS International

★ Participant: ● Drone REGIM

**Thales UK Ltd, United Kingdom**

■ Design, development & commercialisation of SOARIZON aeronautical information system for drone operators

**Unmanned Aviation, UK**

■ Specialised press & consulting

★ Participant: ● Drone REGIM

**UVS International, International**

■ International RPAS association

▶ Member of: ● ICAO RPAS Panel

● ICAO «Space Learning» Group

- OECD's Drone Working 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

★ Initiator: ● Drone REGIM

**UVS Romania, Romania**

■ National RPAS association

▶ Member of : ● EU/Erasmus co-financed EduDrone Consortium

● UVS International

★ Participant: ● Drone REGIM

**Zangano, Spain**

■ Drone-related regulatory consultancy

▶ Member of : ● Spanish Drone Commission

● UVS International

★ Participant: ● Drone REGIM

**Zuidwesthoek College, The Netherlands**

■ Secondary school

★ Participant: ● Drone REGIM

**SPEAKER & PANELIST ORIGINS**

● Belgium	4
● EU Agency	2
● France	8
● Germany	2
● International Association	2
● Netherlands	20
● Romania	1
● Spain	3
● UK	3

**QUANTITY OF PRESENTATIONS**

<b>14 Jan. 2020</b>	4 Plenary Sessions	<b>22 Presentations</b>
<b>15 Jan. 2020</b>	3 Plenary Sessions	<b>16 Presentations</b>
	1 Plenary Panel Session	<b>1 Presentation</b>
		<b>4 Panelists</b>
	<b>Total</b>	<b>39 Presentations</b>
		<b>4 Panelists</b>

**SPEAKER & PANELIST CATEGORIES**

● Academia	3
● Aeronautical Service Provider	3
● Air Navigation Service Provider	4
● Consulting Company	10
● Drone REGIM	31
● Energy Supplier	2
● European Union (EU) Agency	2
● EU-funded Consortium	6
● Flight School	6
● Insurance supplier	1
● International Association	2
● Municipality	1
● National RPAS Association	4
● National Aviation Authority	10
● National Governmental Agency	4
● Railway network operator	1
● Regional development organisation	1
● Research Organisation	5
● RPAS Manufacturer	2
● RPAS Operator	18
● Test Range	6

Note: A speaker/panelist can fall in more than one category



# CONFERENCE FEES & MODALITIES



## CONFERENCE FEES IN EURO (€) - FOR BOTH DAYS

### Members of UVS International & Partner Organisations

- **Corporate & Associate** [industry (manufacturers, operators & service suppliers, incl. ANSPs & commercial research)] **760**
- **Non-Corporate** [government (civil & military), regulatory authorities, academia, natural person (only UVS International members), non-commercial research, humanitarian NGOs] **380**
- **Partner Organisation** [Board members only] **380**

### Not Members of UVS International

- **Corporate** [industry (manufacturers, operators & service suppliers, incl. ANSPs & commercial research)] **910**
- **Non-Corporate** [government (civil & military), regulatory authorities, academia, non-commercial research, humanitarian NGOs] **456**

**Participation in Session 5 - «ICAREs Cluster»: Free-of-charge for a limited number of ICAREs partners - First come, first served. Applications are processed by ICAREs.**

<b>European Parliament &amp; BeNeLux, NATO</b>	[registration required]	<b>Free</b>
<b>EC &amp; EU Agencies &amp; OECD &amp; ICAO</b>	[registration required]	<b>Free</b>
<b>Dutch government repres.</b> [civil & military]	[registration required]	<b>Free</b>
<b>Accredited Press</b>	[press card & registration required]	<b>Free</b>

Speakers receive 50% discount on the fee applicable to their category

Above indicated fees **include the obligatory 21% Dutch VAT**

**Conference Proceedings** (for persons NOT attending the conference)

Price (excluding VAT): Euro **210,00**

To order complete the order form available on [www.rpas-civops.com](http://www.rpas-civops.com) or order by sending an email to [pvb@rps-info.com](mailto:pvb@rps-info.com)

**NOTE:** On-site conference registration is NOT possible.

## ONLINE REGISTRATION

**VENUE** The Hague Conference Centre New Babylon  
Anna van Buerenplein 29, The Hague, The Netherlands

**LOCATION** City centre; next to the central railway station

### DATES & TIMING

Conference: 14 & 15 January 2020  
Sign In & Badge Remittance: 08.00 - 08.45 on 14 January 2020  
Conference hours: Day 1 09.00 - 12.30 & 14.00 - 17.50  
Day 2 08.45 - 12.30 & 14.00 - 17.45

### CONFERENCE PROCEEDINGS

The conference proceedings will be in English and will be published on a restricted portal, access to which is included in the conference fee. The portal address & password will be emailed out to all qualifying conference delegates within 10 days after the conference. Access to the portal can be ordered by persons not able to attend the conference; in such a case, access to the portal will be notified after the conference and after receipt of the relevant payment.

### ACCESS BADGES

The conference badges are to be picked up at the sign-in desk at the venue on 14 January 2020 & will only be remitted to the delegates, whose registration & conference fee have been received **BEFORE** 12.00 noon on 10 January 2020.

### FOOD & BEVERAGES

Coffee, tea, soft drinks during breaks & lunch are included in conference fee.

### TERMS & CONDITIONS

Entrance to conference & exhibition venue will only be possible for confirmed delegates whose payment has been received in full **BEFORE** 12.00 noon on 10 Jan. 2020. Confirmed delegates are to be understood as delegates whose booking has been confirmed by the organizers by the sending of the relevant invoice by fax or email. Delegate places are nominal and may not be shared. Substitution of delegates is permitted, provided the organizers have been informed in writing **BEFORE** 12.00 noon on 10 Jan. 2020. A 10% administration fee will be charged for cancellations received in writing **BEFORE** 16 Dec. 2019. No refund of delegate fees will be made for cancellations received **ON or AFTER** 16 Dec. 2019; issued invoices will remain due & fees received will be retained. The organizers reserve the right to modify the conference programme, speakers, timing & venue without prior notice, & cannot be held liable for any such changes.

### HOTEL ACCOMMODATION

Hotel accommodation is not included in the conference fee. **Hotel Babylon** (located in the same building as the conference venue) is recommended. Negotiated rates for conference participants: Single € 105/night & Double € 120/night (incl. breakfast). These prices were valid for bookings received **BEFORE 13 Dec. 2019**.

For reservations contact [reservations.babylon@edenhotels.nl](mailto:reservations.babylon@edenhotels.nl) & indicate the reservation code: DBA-GF9388.

For suggestions concerning other conveniently located hotels (in different price categories), click [HERE](#).