

Joint Authorities for Rulemaking of Unmanned Systems

# Predefined Risk Assessment, PDRA-02:

- USING UNMANNED AIRCRAFT UP TO 3 M DIMENSION
- BVLOS OVER A LIGHTLY POPULATED AREA (50 People/km<sup>2</sup>)
- IN AN ENVIROMENT WHERE MOST PEOPLE ARE SHELTERED
- IN AIRSPACE THAT IS RESERVED OR SEGREGATED FOR THE
   OPERATION

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#### 17 1. Introduction

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This Predefined Risk Assessment (PDRA) is an application of the SORA intended to provide UAS operators with an already
 completed risk assessment for the operation covered under this PDRA as defined by the scope and risk assessment
 (sections 2 and 3).

Before deciding to apply for an authorization under this PDRA, UAS operators should carefully evaluate whether it will
 accommodate the intended operations. This should be done by evaluating the scope of the PDRA.

All documents should be adjusted to reflect the actual UAS operation, however significant care should be directed to the mutual dependency of SORA risk assessment writing template, comprehensive safety portfolio (compliance matrix) and operations manual. All red shaded boxes in the forms are predefined and shall not be changed. If one of these would have to be changed to conduct operation please revert to a SORA application. All boxes still white in the form

27 (except for the remark sections) have to be filled by the applicant.

The requirements that are driven by this Risk assessment should be in full compliance with SORA and the respectiveAnnexes.

30 The competent authority reviews the application in accordance with the provisions arising from the risk assessment and 31 the respective SAIL. In this process, the implementation of all technical and operational requirements are checked based 32 on the descriptions in the operations manual, or other associated documents as required. The competent authority has 33 the option to request revisions of documents or to ask for additional supporting documentation.

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#### 35 **2.** Scope of PDRA-02

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37 38	(a) Scope
39	This PDRA-02 covers UAS operations performed with the following main attributes:
40 41	<ul> <li>unmanned aircraft with a maximum characteristic dimension (e.g. wingspan or rotor diameter/area) up to 3 m and a maximum speed of 35 m/s, MTOM &lt;25kg</li> </ul>
42	<ul> <li>operated beyond visual line of sight (BVLOS) of the remote pilot,</li> </ul>
43	• With a maximum population density of 50 people/km <sup>2</sup> or in qualitative terms lightly populated areas,
44 45	• In airspace reserved or segregated for the operation, e.g. danger area or restricted area appropriate for unmanned aircraft operations.
46 47	• Adjacent Area of sheltered nature with an Average Population density of less than 5000 ppl/km <sup>2</sup>
48 49	(b) PDRA characterisation and conditions
50 51	The characterisation and conditions for this PDRA are summarised in section 3.

### 52 3. Risk Assessment - A2 -Form

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# Specific Operational Risk Assessment overview for UAS operations

	0. Data of the UAS and operation			
0.1	UAS operator identification			
0.2	Manufacturer or type certificate holder			
0.3	Model name			
0.4	Type of UAS configuration	<ul> <li>Conventional airplane</li> <li>Helicopter</li> <li>Multirotor</li> <li>Hybrid/VTOL</li> <li>Lighter than air</li> <li>Other, please specify:</li> </ul>		
0.5	Is the UAS tethered during the operation?	□Yes	⊠No	
0.6	Maximum characteristic dimension	≤ 3	m	
0.7	Maximum take-off mass (MTOM) (indicated by the operator equal to or less than the manufacturer's specification)	≤ 25	kg	
0.8	Maximum operational speed	≤ 35	m/s	
0.9	Type of propulsion system	<ul> <li>Electric</li> <li>Combustion</li> <li>Hybrid, specify type:</li> <li>Other, please specify:</li> </ul>		
0.10	Number of type certificate (if available)	N/A		
0.11	<b>Certificate of airworthiness</b> (if available)	N/A		
0.12	Number of noise certificate (if available)	N/A		
0.13	Transport of dangerous goods	□Yes	⊠No	
0.14	Type of operation	□Visual line of sight (VLOS) □Extended visual line of sight (EVLOS) ⊠Beyond visual line of sight (BVLOS)		
0.15	Does the remote pilot control more than one UA simultaneously?	□Yes	⊠No	

	1. Spec	ific Operations Risk Assessment		
		Step #1 Operations manual		
#1.1	Description of proposed operation including the locations	<ul> <li>If location-specific:         Please provide the geo-coordinates for each operational volume (flight geography and contingency volume), the ground risk buffer and the air risk buffer (if available) as a separate file using either .txt; .kmz or .kml.     </li> <li>Give reference to the file:         If location-independent:     </li> <li>Please provide a reference to the documented process for the determination of volumes and buffers and the assessment of the local conditions and their compliance limitations.     <li>Give reference to the file:         Chapter C within the Operators OM     </li> </li></ul>		
		Please provide a list with the informat locations.	ion if there are	e multiple
	description of proposed operation: ransport, inspection, filming, testing, etc			
#1.2	Dimensions of the operational volume and the adjacent volume (Rounded up to first decimal place)	Height of the flight geography Height of the contingency volume Width of the contingency volume Width of the ground risk buffer Height of the adjacent volume	HFGmax Hcvmax Scvmax SgrBmax Hav	<u>*</u> m <u>*</u> m <u>*</u> m <u>*</u> m
		<ul> <li>Width of the adjacent volume</li> <li>Please provide a list with this informat locations.</li> <li>* - information about the operational chapter C of the OM</li> </ul>	-	
	Step #2 U/	AS intrinsic ground risk class		
#2.1	<b>Type of operational areas on the ground</b> (including flight geography, contingency volume and ground risk buffer)	<ul> <li>□ Controlled ground area</li> <li>□&lt; 5 People/km<sup>2</sup> (remote)</li> <li>⊠&lt; 50 People/km<sup>2</sup> (lightly populated)</li> <li>□&lt; 500 People/km<sup>2</sup> (sparsely populate)</li> <li>□&lt; 5000 People/km<sup>2</sup> (suburban/low d)</li> <li>□&lt; 50.000 People/km<sup>2</sup> (high density n)</li> <li>□&gt; 50.000 People/km<sup>2</sup> (assemblies of</li> </ul>	lensity metrop netropolitan)	politan)
#2.2	Specify the intrinsic ground risk class	4		
Rema	rks/Reasoning for Step #2 (optional)			

	Step #3 Final ground risk class determination							
#3.1	Specify the applied ground risk mitigations (if applicable)	M1 (A) strategic mitigation - sheltering <u>Specify the level of robustness:</u> □None ⊠Low						
		M1 (B) strategic mitigation – operational restrictions Specify the level of robustness:						
		⊠None				Medium	$\boxtimes$	High
				igation – gr f robustnes		servation		
		⊠None	C	Low				
				mpact dyna f robustnes		e reduced		
		⊠None				Medium	□Higł	n
#3.2	Specify the final ground risk class	3						
Rema	rks/Reasoning for Step #3 (optional)							
	Step	#4 Initial a	ir risk cla	ss				
#4.1	Classification of the airspace where the	ΠA	□в	□C	□D	ΠE	□F	□G
	operation is intended to be conducted (multiple answers possible)	Restricted area (ED-R)   Danger area (ED-D)						
		□тмz		□rmz		□ATZ		
#4.2	Specify the initial air risk class and the reasoning for choosing it	Operatio	nal volum	ne	Ad	jacent airs	pace	
		⊠ARC-a				ARC-a		
						ARC-b		
		□ARC-c □ARC-d				ARC-c ARC-d		
Rema	rks/Reasoning for Step #4 (optional)							
(eg. E	xplanations why the flight area is initially ARC-a)	)						
	Step #5 Strategic air	risk mitiga	tions and	final air ris	k class			
#5.1	Specify, if strategic mitigations of the air risk class were applied	□Yes				١o		
#5.2	<b>Residual air risk class</b> (after strategic mitigation)	⊠ARC-a □ARC-b □ARC-c □ARC-d						
Rema	rks/Reasoning for Step #5 (optional)							

	Step #6 TMPR and robustness level						
#6	Tactical mitigations performance       ULOS         Requirements       BVLOS         Image: Display in the second seco						
Rema	Remarks/Reasoning for Step #6 (optional)						
	Step #	7 SAIL determination					
#7	Specific Assurance and Integrity Level						
	Step #8 Determina	tion of containment re	quirements				
#8	Containment	⊠Low	□Medium	□High			
Rema	Remarks/Reasoning for Step #8 (optional)						
	Step #9 Identification of	of operational safety ob	jectives (OSOs)				
#9	Operational safety objectives	As pe	er identified SAIL from S	tep #7			
		Confirmation					
Place,	, date	Name and signature					

## 61 4. Reference to BOM & modules

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62					
63 64	To write an Operations Manual for the Operation described above it is possible to use the Basic Operations Manual (BOM) and extend or change it as necessary using the listed modules.				
65 66	The BOM is common to all PDRAs and therefore not complete and will not work as a standalone document without the required additions.				
67 68	For this PDRA the following documents are required to complete a full Operations Manual addressing all necessary topics:				
69					
70	BOM (basic operations manual)				
71	• modules				
72	<ul> <li>BVLOS / TMPR (ARC-a)</li> </ul>				
73	<ul> <li>Flight Area 02</li> </ul>				
74	(generic, lightly populated area, segregated airspace, low containment)				
75	o M1(A)				
76	Strategic mitigation - Sheltering				
77					
78					
79					

#### 80 5. Compliance Matrix

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82 If you stick to the recommended structure from Annex A (A3) you can use the following Compliance Matrix to

- 83 give the competent authority the reference where to find the evidence needed for the requirements derived
- from this PDRA. The red shaded boxes shall not be adjusted as they are derived from the Risk Assessment
- 85 made. Hoever, the location of the evidence can be adjusted to match the actual location in the Operation86 Manual handed in for authorisation.
- 87

# **Compliance Matrix**

Requirement	Level of robustness	Reference to documentation				
Ground risk mitigations						
M1 (A) Strategic mitigations	□ None	Document name:				
- Sheltering	⊠ Low	<u>OperationsManual.pdf</u>				
		Chapter or Page number:				
		<u>Chapter</u> <u>C, 3.2.3.2</u>				
		<u>Annex 8.1.3 (if &gt;25kg)</u>				
M1 (B) Strategic mitigations	⊠ None	Document name:				
- Operational restrictions						
	🗆 Medium	Chapter or Page number:				
	□ High					
M1 (C) Tactical mitigations	⊠ None	Document name:				
- Ground observation	□ Low					
		Chapter or Page number:				
M2 – Effects of UA impact dynamics are reduced	⊠ None	Document name:				
	□ Medium	Chapter or Page number:				
	□ High					

Strategic air risk mitigations					
Air risk class mitigation	$\Box$ ARC-d (AEC 1 or 2) $\rightarrow$ ARC-c	Document name:			
	$\Box$ ARC-d (AEC 1 or 2) $\rightarrow$ ARC-b				
	$\Box$ ARC-d (AEC 3) $\rightarrow$ ARC-c	Chapter or Page number:			
	$\Box$ ARC-d (AEC 3) $\rightarrow$ ARC-b				
	$\Box$ ARC-c (AEC 4) $\rightarrow$ ARC-b				
	$\Box$ ARC-c (AEC 5) $\rightarrow$ ARC-b				
	□ ARC-c (AEC 6,7,8) → ARC-b				
	$\Box$ ARC-c (AEC 9) $\rightarrow$ ARC-b				

Tactical mitigations performance requirements				
TMPR level	<ul> <li>□ VLOS (deconfliction scheme)</li> <li>⊠ BVLOS</li> <li>⊠ No requirement (ARC-a)</li> </ul>	Document name:  Chapter or Page number:		
	<ul> <li>No requirement (ARC-a)</li> <li>Low requirement (ARC-b)</li> <li>Medium requirement (ARC-c)</li> <li>High requirement (ARC-d)</li> </ul>			
	Detect	Document name:		
		Chapter or Page number:		
	Decide	Document name:		
		Chapter or Page number:		
	Command	Document name:		
TMPR function		Chapter or Page number:		
	Execute	Document name:		
		Chapter or Page number:		
	Feedback loop	Document name:		
		Chapter or Page number:		
TMPR robustness	TMPR integrity and assurance objectives	Document name:		
	,	Chapter or Page number:		

Containment requirements				
Containment		Document name:		
	⊠ Low	OperationsManual.pdf		
	□ Medium	Chapter or Page number:		
	🗆 High	<u>Chapter T, 6.1.6</u>		

Operational Safety Objectives			
OSO #01 Ensure that the UAS operator is competent and/or proven	□ NR ⊠ Low □ Medium □ High	Document name: <u>OperationsManual.pdf</u> Chapter or Page number: <u>Chapter A,</u> <u>Chapter D</u>	
OSO #02 UAS manufactured by competent and/or proven entity	⊠ NR □ Low □ Medium □ High	Document name:  Chapter or Page number: :	
OSO #03 UAS maintained by competent and/or proven entity	⊠ Low □ Medium □ High	Document name: <u>OperationsManual.pdf</u> Chapter or Page number: <u>Chapter A, 1.7</u> <u>Annex 8.1.1.2</u>	
OSO #04 UAS components essential to safe operations are designed to an Airworthiness Design Standard (ADS)	⊠ NR □ Low □ Medium □ High	Document name:  Chapter or Page number: :	
OSO #05 UAS is designed considering system safety and reliability	⊠ NR □ Low □ Medium □ High	Document name:  Chapter or Page number: :	
OSO #06 C3 link characteristics (e.g. performance spectrum use) are appropriate for the operation	<ul> <li>□ NR</li> <li>⊠ Low</li> <li>□ Medium</li> <li>□ High</li> </ul>	Document name: <u>OperationsManual.pdf</u> Chapter or Page number: <u>Chapter T, 6.2.3</u> <u>Annex 8.1.3</u>	

SS0 #07       Image: Conformity check of the UAS configuration       Decument name:       OperationsManual pdf         Chapter D, 2.8.1       Chapter D, 2.8.1       Chapter D, 2.8.1         Chapter ID, 2.8.1       Chapter or Page number:       Chapter or Page number:         Operational procedures are defined, validated and adhered to       Medium       Decument name:         Operational procedures are defined, validated and adhered to       Medium       Decument name:         Operational procedures are defined, validated and adhered to       Medium       Decument name:         Operational procedures are defined, validated and adhered to       Medium       Decument name:         Operational procedures are defined, validated and adhered to       Medium       Decument name:         Operational procedures are defined, validated and adhered to       Medium       Decument name:         Operational procedures are defined, validated and adhered to       Medium       Decument name:         Operations are adequate for the operation       Medium       Decument name:         Operations are adequate for the operation       Medium       OperationsManual pdf         Chapter B, 2.3       Chapter B, 2.3       Chapter B, 2.3         Chapter B, 2.3       Chapter B, 2.3       Chapter B, 2.1         OperationsManual pdf       Chapter B, 2.1       Chapter D, 2.3
Configuration       Medium       Chapter or Page number:         Chapter D,       Annex 8.2.61         Chapter D,       Annex 8.2.61         ODSO #08       Document name:         Operational procedures are defined, validated and adhered to       Medium         High       Medium         Press       Medium         High       Chapter D,         Annex 8.2.61       Document name:         Operations/Manual.pdf       Chapter D,         Annex 8.3       Chapter D,         Annex 8.3       Chapter D,         Annex 8.3       Document name:         Operations/Manual.pdf       Chapter D,         Annex 8.3       Document name:         Operations are adequate for the operation       Medium         High       Medium       Operations/Manual.pdf         Chapter D       Medium       Operations/Manual.pdf         Chapter A       1.7       Chapter D         OBO #11       Medium       Operations/Manual.pdf         Physical adequate for the operation       Medium       Operations/Manual.pdf         Chapter B       2.3       Chapter B       2.3         Chapter B       2.3       Chapter B       2.3         Chapter B       <
D Hight       Chapter B. 2.8.1 Chapter D. Annex 8.2.61         DSO #08       Document name:         Operational procedures are defined, validated and adhered to       Medium         High       Hedium         High       Chapter D. Annex 8.3         DSO #09       Medium         Remote crew trained and current       Medium         High       Document name:         Obso #13       Chapter or Page number:         Chapter A. 1.7       Chapter A. 1.7         Chapter D       Medium         High       Document name:         OSO #13       Vertices supporting UAS         Deperations are adequate for the operation       Medium         High       Chapter or Page number:         Chapter D       Chapter J.         OSO #16       Medium         Medium       OperationsManual.pdf         Chapter B.2.3       Chapter B.2.3         Chapter B.2.3       Chapter B.2.3         Chapter B.2.1       Chapter J.         OSO #16       Medium         High       OperationsManual.pdf         Chapter D.       Annex 8.1.2.3
Chapter D,         Annex 8.2.61         DSO #08         Deparational procedures are defined, validated and adhered to         Image: High         Image: High <t< th=""></t<>
OSO #08       Document name:         Operational procedures are defined, validated and adhered to       Medium       OperationsManual.pdf         High       Chapter or Page number:       Chapter D.         Annex 8.3       Document name:       OperationsManual.pdf         OSO #09       Medium       OperationsManual.pdf         Remote crew trained and current       Medium       OperationsManual.pdf         DSO #13       Medium       OperationsManual.pdf         Chapter or Page number:       Chapter or Page number:
DSO #08       Document name:         Operational procedures are defined, validated and adhered to       Medium       Decument name:         High       Chapter or Page number:       Chapter B.         Chapter D.       Annex 8.3         DSO #09       Medium       Document name:         Remote crew trained and current       Medium       Decument name:         Medium       OperationsManual.pdf       Chapter or Page number:         Chapter or Page number:       Chapter B. 2.3         Chapter or Page number:       Chapter B. 2.3         Chapter or Page number:       Chapter or Page number:         Chapter or Page number:       Chapter or Page number:         Chapter or Page number:       Chapter or P
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Remote crew trained and current <ul> <li>Medium</li> <li>High</li> <li>OperationsManual.pdf</li> <li>Chapter or Page number:</li> <li><u>Chapter A, 1.7</u></li> <li><u>Chapter D</u></li> </ul> DSO #13 External services supporting UAS operations are adequate for the operation <ul> <li>Medium</li> <li>Medium</li> <li>Medium</li> <li>Medium</li> <li>Medium</li> <li>OperationsManual.pdf</li> <li>Chapter D</li> </ul> DSO #13 External services supporting UAS operations are adequate for the operation <ul> <li>Medium</li> <li>Medium</li> <li>OperationsManual.pdf</li> <li>Chapter or Page number:</li> <li><u>Chapter B, 2.3</u></li> <li><u>Chapter B, 2.3</u></li> <li><u>Annex 8.1.2.4</u></li> </ul> DSO #16 Multi-crew coordination <ul> <li>Medium</li> <li><u>OperationsManual.pdf</u></li> <li>Chapter or Page number:</li> <li><u>Chapter B, 2.1</u></li> <li><u>Chapter B, 2.1</u></li> <li><u>Chapter B, 2.1</u></li> <li><u>Chapter D, Annex 8.1.2.3</u></li> </ul>
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□ High       Chapter or Page number:         □ High       Chapter B, 2.3         □ Chapter B, 2.3
Image:
OSO #16       Image: Chapter B2.3         Multi-crew coordination       Image: Chapter B2.3         Image: Medium       Image: Document name:         Image: Image: Medium       Image: OperationsManual.pdf         Image: Ima
OSO #16       Image: Constraint on the second
OSO #16       Image: Comparison         Multi-crew coordination       Image: Comparison         Image: Comparison       Image: Comparison
Multi-crew coordination <ul> <li>Medium</li> <li>Medium</li> <li>High</li> <li>Chapter or Page number:</li> <li>Chapter B, 2.1</li> <li>Chapter D,</li> <li>Annex 8.1.2.3</li> </ul>
□ Medium <u>OperationsManual.pdf</u> □ High Chapter or Page number: <u>Chapter B, 2.1</u> <u>Chapter D,</u> <u>Annex 8.1.2.3</u>
Chapter B, 2.1 Chapter D, Annex 8.1.2.3
<u>Chapter D,</u> <u>Annex 8.1.2.3</u>
DSO #17 Document name:
Remote crew is fit to operate OperationsManual.pdf
□ High Chapter or Page number:
<u>Chapter A, 1.9</u>
OSO #18 Document name:
Automatic protection of the flight
envelope from human errors

OSO #19 Safe recovery from human error	⊠ NR □ Low □ Medium □ High	Document name:  Chapter or Page number: 
OSO #20 A human factors evaluation has been performed and the human machine interface (HMI) found appropriate for the mission	□ NR ⊠ Low □ Medium □ High	Document name: <u>OperationsManual.pdf</u> Chapter or Page number: <u>Chapter T, 6.1.7</u> <u>Annex 8.1.3.1</u>
OSO #23 Environmental conditions for safe operations are defined, measurable and adhered to	⊠ Low □ Medium □ High	Document name: <u>OperationsManual.pdf</u> Chapter or Page number: <u>Chapter C, 3.1</u> <u>Chapter B 2.4</u> <u>Annex 8.1.2.3</u>
OSO #24 UAS is designed and qualified for adverse environmental conditions	⊠ NR □ Medium □ High	Document name:  Chapter or Page number:

Confirmation				
Have all safety requirements been described and met?		⊠Yes		
		□No		
Place, date	Name and signature			