



BVLOS Drone Program Application Process



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The Dubai Experimental Zone aims to enable UAV deployment in commercial use cases through establishing a BVLOS operational framework, including the digital and physical infrastructures required for the safe and efficient operation of drones over Dubai.

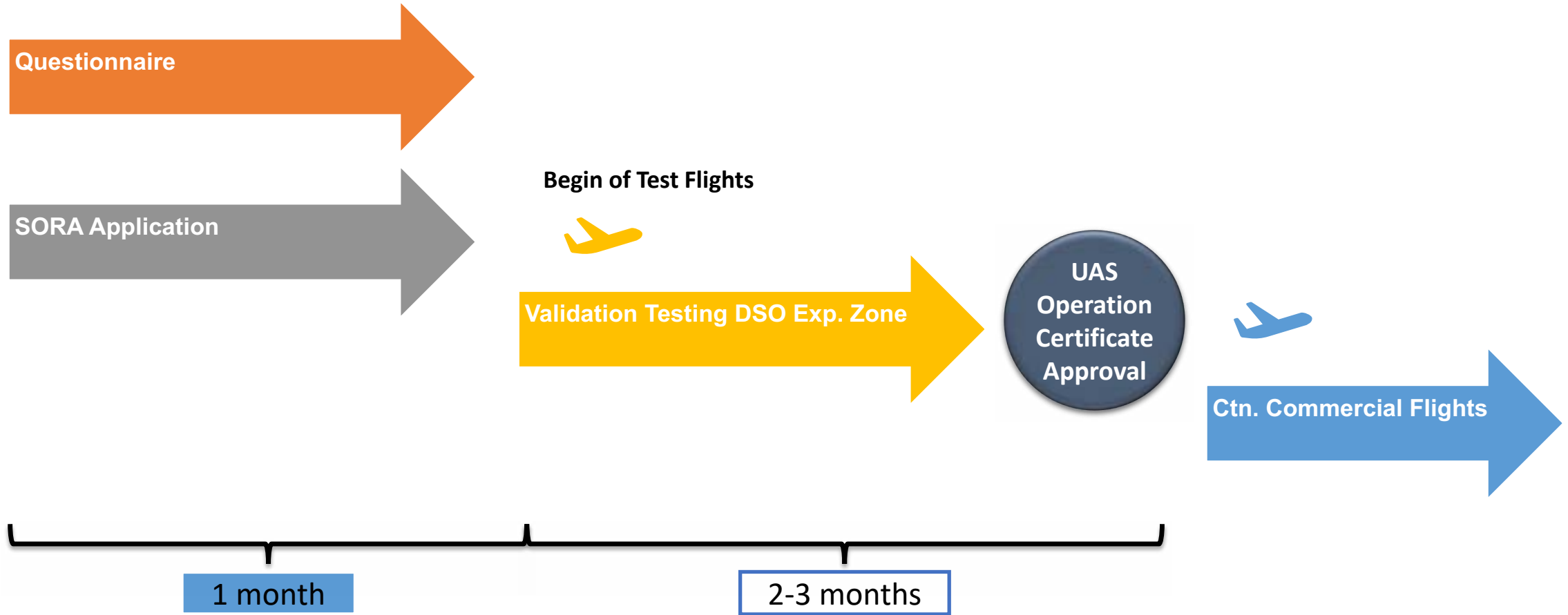
Brief Process Description DCAA

The application process for commercial drone operators seeking approval for flights in Dubai is designed to be simple and transparent while ensuring flight safety and security.

It is separated into three subsequent phases

- 1. SORA application according JARUS
- 2. Validation flight test campaign in the Dubai Silicon Oasis Experimental Zone
- 3. Issuing of a UAS Operation Certificate

Application Process - from Zero to Liftoff



Information Gathering Questionnaire

Stakeholders:

- ☐ UAS Operator
- ☐ Dubai Future Foundation

Output:

- ☐ Filled questionnaire

SORA Application p. 1

Stakeholders:

- ☐ UAS Operator
- ☐ DCAA and/or competent third party for application evaluation

Deliverables:

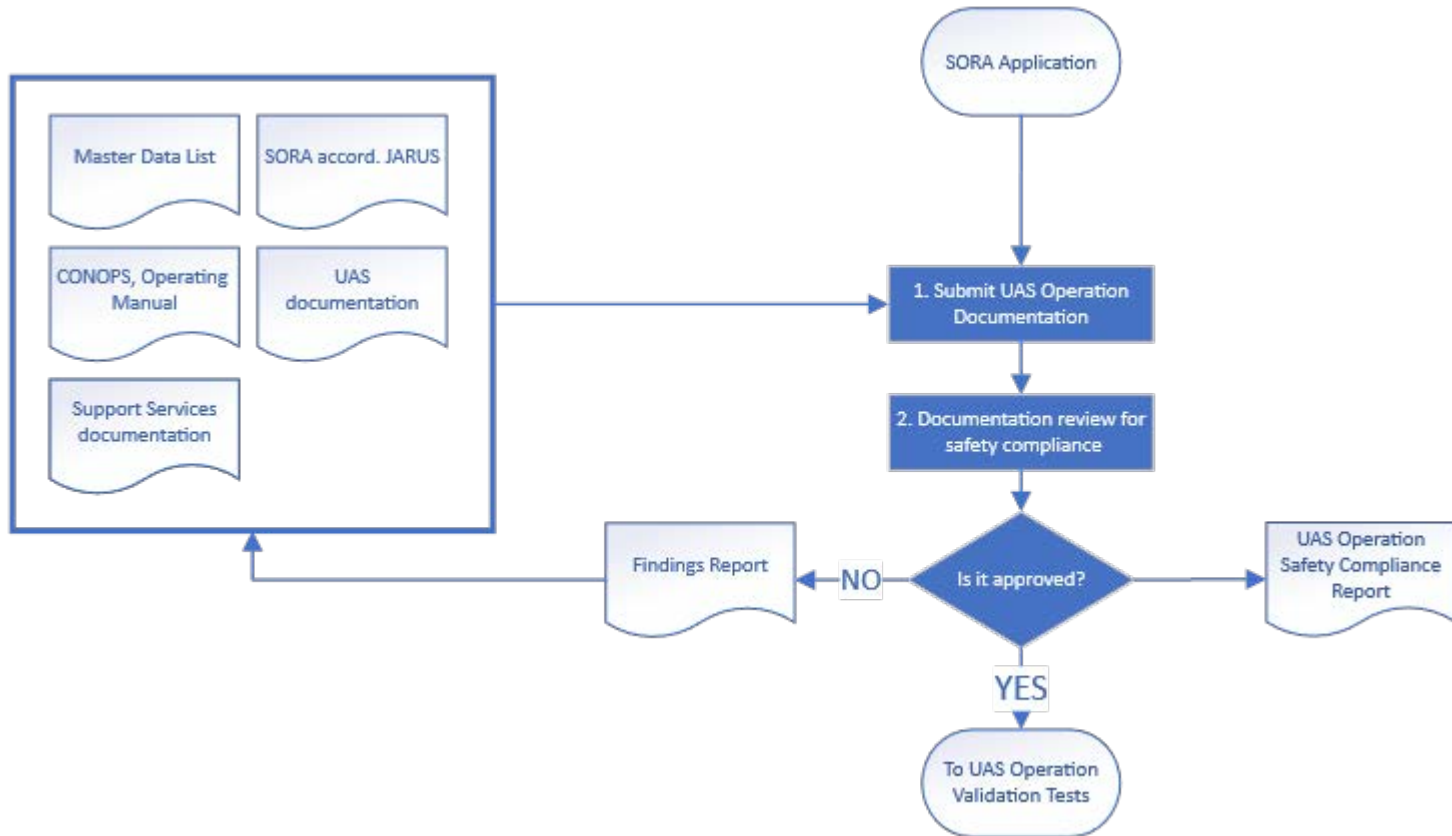
- ☐ Master Data List SORA according JARUS guidelines, CONOPS¹, Operations Manual¹
- ☐ Google Earth kml file & all additional documents referenced

Output:

- ☐ UAS operation safety compliance report
- ☐ Invitation to enter validation test campaign in DSO experimental zone

¹ as guideline, see attached template of SORA, CONOPS and OM

SORA Application p. 2



Review Process:

- ☐ Deliverables are reviewed by DCAA and/or competent third party
- ☐ Requests for clarification will be forwarded to UAS operator and the deliverables will be amended as necessary
- ☐ Information exchange via mail / online portal
- ☐ Presentations & discussion via teleconf (preferably) or meeting as necessary

Validation Testing Campaign DSO Experimental Zone p. 1

Stakeholders:

- ☐ UAS Operator
- ☐ DCAA and competent third party

Deliverables:

- ☐ Approved Flight Test Cards¹, UAS manufacturer documentation (AFM, AMM, ...)
- ☐ Operations Manual, UAS pilot documents

Validation Testing:

- ☐ Successful execution of Flight Test Cards

Output:

- ☐ Flight test report
- ☐ UAS operation safety compliance report

¹ the actual test points to be validated will be determined based on the SORA application

Validation Testing Campaign DSO Experimental Zone p. 2

Validation Testing:

- Flight test card content will be determined based on the SORA application between operator, DCAA and competent third party with a focus on operational procedures (normal/abnormal/emergency)
- All flights to be performed in the Dubai Silicon Oasis Experimental Zone which provides a controlled and representative area for urban use cases
- DCAA and competent third party will witness the validation flights at their discretion
- Validation testing to start with a flight readiness review and commence with a debriefing



Dubai Silicon Oasis

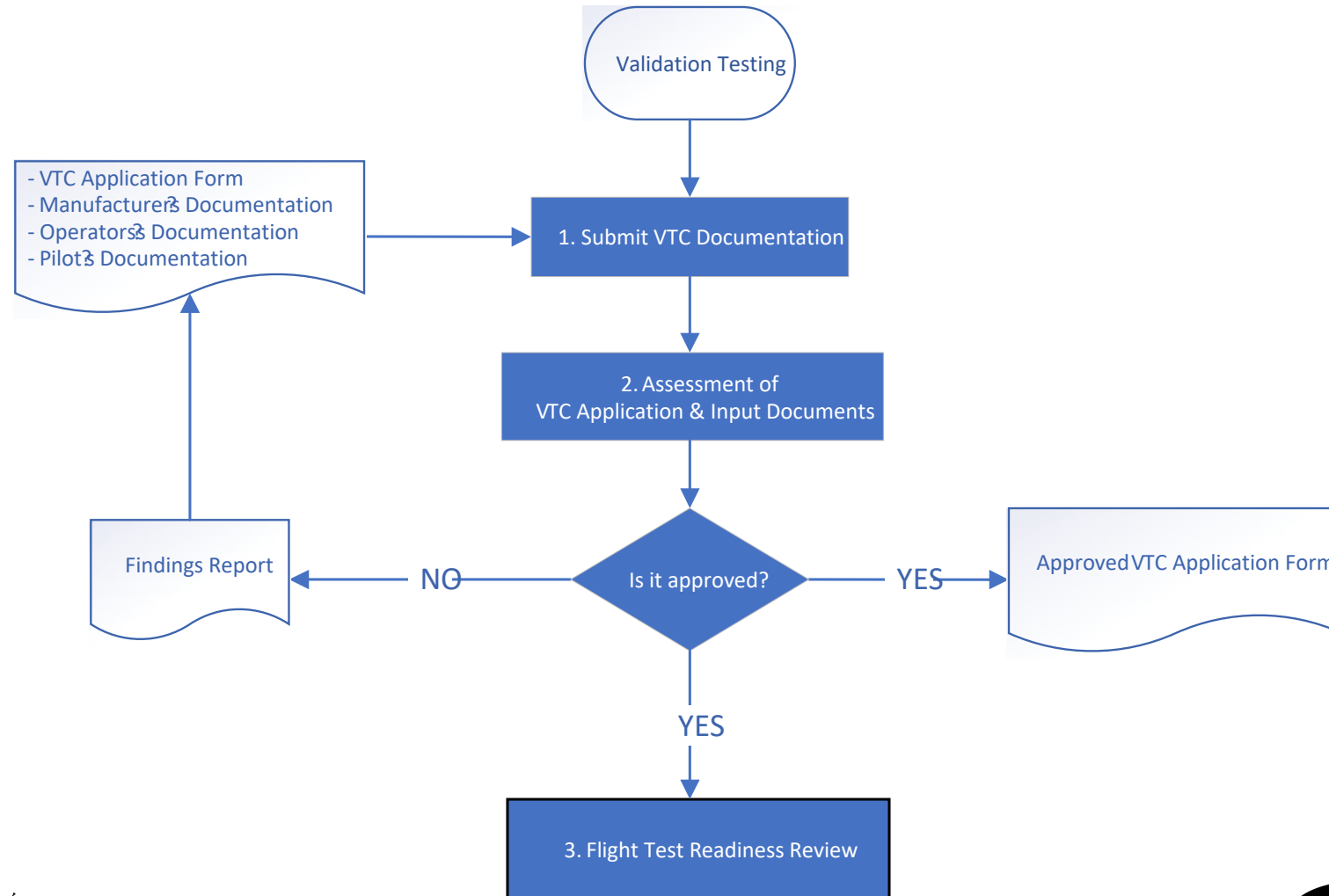


Experimental Zone Areas:

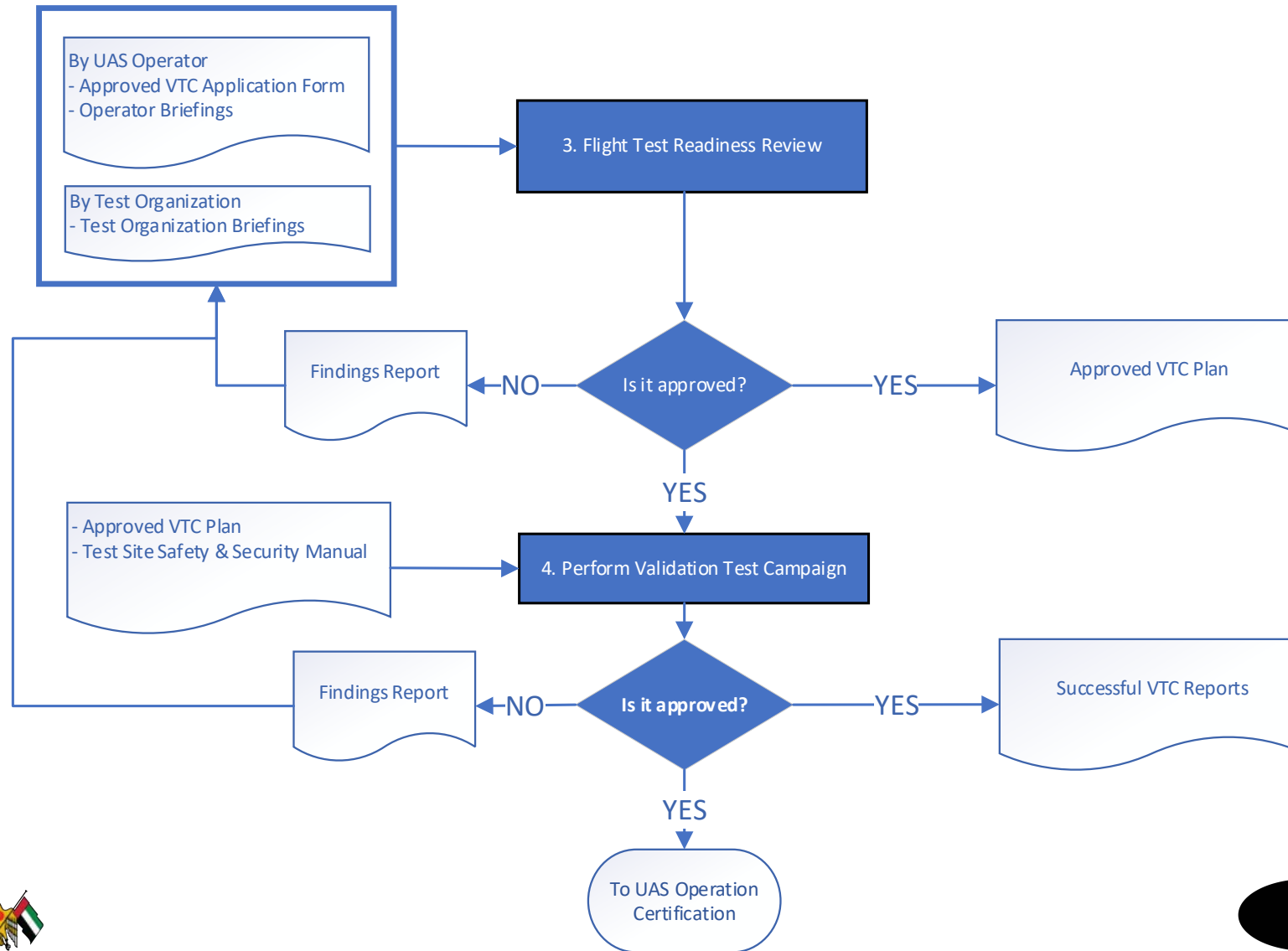
Within Dubai Silicon Oasis, areas will be categorized as follows:

- ☐ A: Initial Stage (unpopulated)
- ☐ B: Secondary Stage (populated - advanced operations)

Validation Testing Campaign DSO Experimental Zone p. 3



Validation Testing Campaign DSO Experimental Zone p. 4



UAS Operation Certificate Approval p. 1

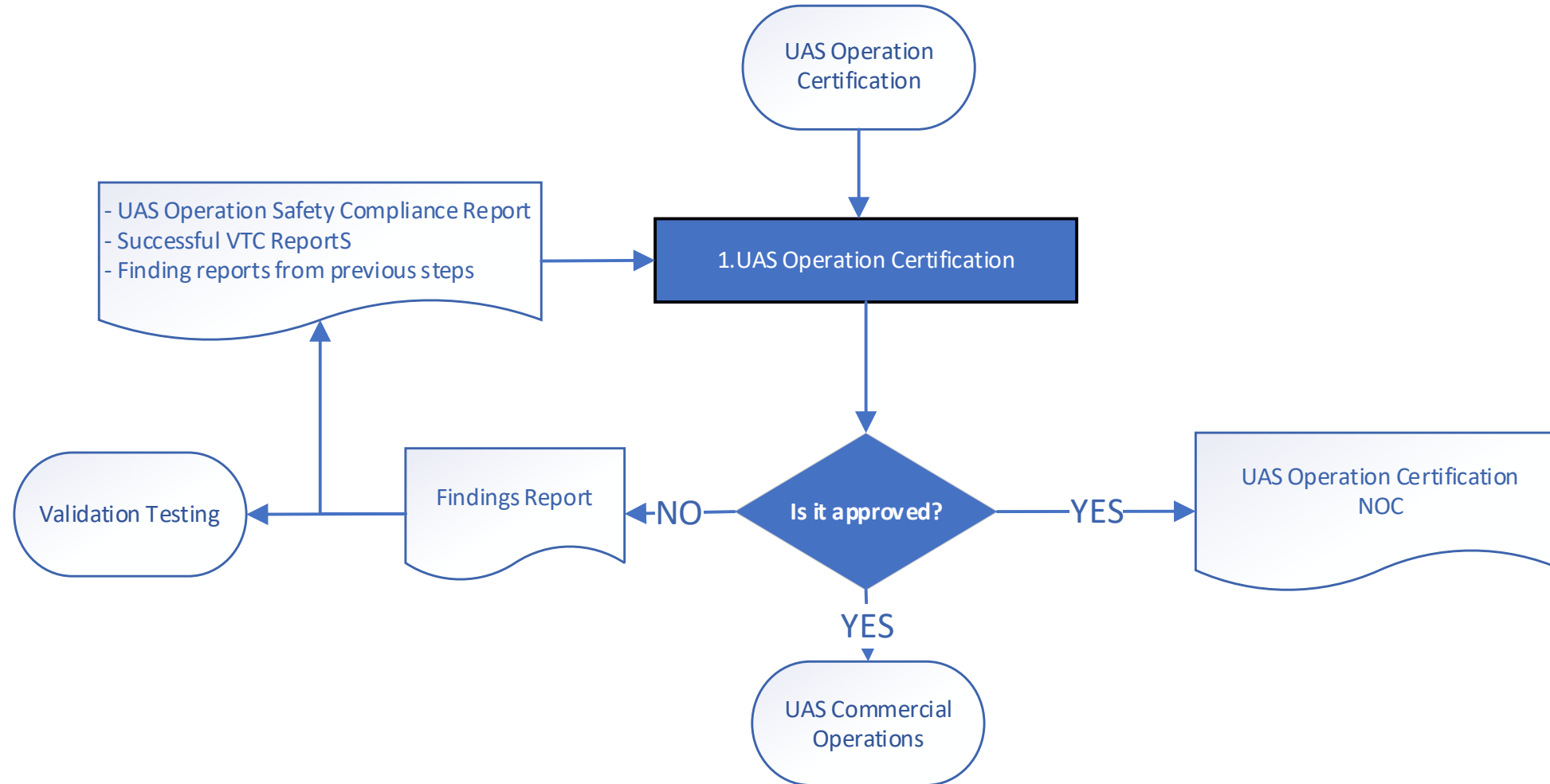
Deliverables:

- ☐ Approved SORA application
- ☐ UAS operation safety compliance report
- ☐ Flight test reports

Output:

- ☐ UAS Operation Certificate
- ☐ Green light to start commercial drone operations in Dubai

UAS Operation Certificate Approval p. 2



Appendix

This handout will be accompanied with four appendix:

1. Information Gathering Questionnaire
2. BVFR-001-SORA_Template
3. BVFR-001-UASCONOPS_Template
4. BVFR-001-OM_Template

SORA TEMPLATE			
01/00			
Date of issue: 27/11/2021			
Document number: SORA-TEMPLATE			
Approval data			
	Prepared by	Verified by	Approved by
Name, sign.	Ángela Ruiz	Antonio Bedmar	Antonio Bedmar
Function	Aerospace Analyst	Systems Engineer	CEO
Record of Revision			
Rev. #	Issue date	Description of change	
01/00	27/11/2021	Initial issue	

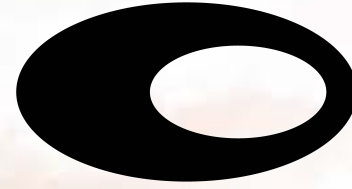
CONOPS - CONCEPT OF OPERATIONS			
01/00			
Date of issue: 08/10/2022			
Document number: OM			
Approval data			
	Prepared by	Verified by	Approved by
Name, sign.	Jorge Serna	Ángela Ruiz	Antonio Bedmar
Function	System Engineer	Aerospace Analyst	CEO
Record of Revision			
Rev. #	Issue date	Description of change	
1	28/11/2021	Initial issue	

OM - OPERATIONS MANUAL			
01/00			
Date of issue: 27/11/2022			
Document number: OM			
Approval data			
	Prepared by	Verified by	Approved by
Name, sign.	Ángela Ruiz	Antonio Bedmar	Antonio Bedmar
Function	Aerospace Analyst	System Engineer	CEO
Record of Revision			
Rev. #	Issue date	Description of change	
01/00	27/11/2021	Initial issue	
02/00	03/12/2021	Unishere: Chapters reordered according EU-OPS1.1045	



هيئة دبي للطيران المدني

Dubai Civil Aviation Authority



مختبرات دبي للمستقبل
DUBAI FUTURE LABS

