

# UAS Safety & Risk Assessment

## Assignment

### Mission Description:

[Ditlevsdal Bison Farm](#) want to fly an [EbeeX](#) drone **BVLOS** to monitor their bisons. Help them complete their **SORA** assessment by going through the 10 steps of SORA. Try to **minimise the final SAIL** score to make the operation easier to perform.  
**Tip:** *try to maximise the operational geography, not necessarily the whole farm.*

### Step 1: Proposed Concept of Operations (ConOps)

What is the operation about? \_\_\_\_\_

Where are you operating? \_\_\_\_\_

Which UAS you intend to fly? \_\_\_\_\_

### SORA Semantic Model:

Please include a map with the volumes of the SORA semantic model  
(Flight Geography, Contingency, 1:1 ground risk buffer, 1km containment, Adjacent Area)

Placeholder for SORA Semantic Model Map

**Step 2: intrinsic Ground Risk Class (iGRC)**

What is the maximum iGRC population density? \_\_\_\_\_

What is the maximum speed of the UAS? \_\_\_\_\_

What is the maximum width of the UAS? \_\_\_\_\_

What is the iGRC? \_\_\_\_\_

**Step 3: final Ground Risk Class (GRC)**

Which mitigations are applicable to your case?

(please provide some supporting evidence if possible)

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What is the final GRC? \_\_\_\_\_

**Step 4: initial Air Risk Class (iARC)**

Which ARC does the operation fall under?

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Are there any NOTAMs or temporary no-fly zones?

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**Step 5: Strategic Mitigations**

Are there any applicable strategic mitigations?

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**Step 6: Tactical Mitigations Performance Requirements**

What is the TMPR level that is applicable to this application?

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## Step 7: Specific Assurance and Integrity Levels

What is the SAIL level of this operation? \_\_\_\_\_

## Step 8: Containment Requirement

What is the size of your adjacent area? \_\_\_\_\_

What is the containment requirement of your operation? \_\_\_\_\_

## Step 9: Operational Safety Objectives

What is the level of assurance and integrity needed for every OSO?

OSO #01: _____	OSO #02: _____	OSO #03: _____
OSO #04: _____	OSO #05: _____	OSO #06: _____
OSO #07: _____	OSO #08: _____	OSO #09: _____
OSO #10: _____	OSO #11: _____	OSO #12: _____
OSO #13: _____	OSO #14: _____	OSO #15: _____
OSO #16: _____	OSO #17: _____	OSO #18: _____
OSO #19: _____	OSO #20: _____	OSO #21: _____
OSO #22: _____	OSO #23: _____	OSO #24: _____

## Step 10: Comprehensive Safety Portfolio (CSP)

What should you include in the CSP?

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