

# ASPEN case study - Definitions

## Sanitization

Hello everyone, the purpose of this form is to capture the semantic relationship between event and measures of the ASPEN case-study, these relationships are application specific or common-knowledge.

\* Indicates required question

1. Could you please give your current time

Example: 8:30 AM

2. Given this justification: "*When drone is exiting an area, it cannot monitor the land*". \*

Is **ExitArea** mutual exclusive with **MonitorLand**?

If you have a justification, provided it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

3. Given this justification: "*When a human is anonymized, his activities cannot be identified*". \*

Is **AnonymizeHuman** mutual exclusive with **IdentifyActivity**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

4. Given this justification: "*When drone is exiting an area, it cannot encounter a human*".

Is **ExitArea** mutual exclusive with **EncounterHuman**?

If you have a justification, a note to add if something is unclear, provide it in others.

*Check all that apply.*

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

5. Given this justification: "*When the drone is returning home it cannot collect samples*".

Is **ReturnHome** mutual exclusive with **CollectSample**?

If you have a justification, a note to add if something is unclear, provide it in others.

*Check all that apply.*

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

6. Given this justification: "*When data is saved, pictures cannot be deleted*".

Is **StoreData** mutual exclusive with **DeletePictures**?

If you have a justification, a note to add if something is unclear, provide it in others.

*Check all that apply.*

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

7. Given this justification: "*When drone is exiting an area, it cannot collect samples*".

Is **ExitArea** mutual exclusive with **CollectSample**?

If you have a justification, a note to add if something is unclear, provide it in others.

*Check all that apply.*

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

8. Given this justification: "*When drone is exiting an area, it cannot monitor carbon emissions*".

Is **ExitArea** mutual exclusive with **MonitorCarbon**?

If you have a justification, a note to add if something is unclear, provide it in others.

*Check all that apply.*

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

9. Given this justification: "*When drone is grounded, it cannot be deployed*".

Is **GroundDrone** mutual exclusive with **DeployDrone**?

If you have a justification, a note to add if something is unclear, provide it in others.

*Check all that apply.*

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

10. Given this justification: "*When drone is avoiding interference, it may not encounter wildlife*".

Is **AvoidInterference** mutual exclusive with **EncounterWildlife**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

11. Given this justification: "*When drone is grounded, it cannot monitor carbon emissions*".

Is **GroundDrone** mutual exclusive with **MonitorCarbon**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

12. Given this justification: "*If the environment is dangerous, it implies that the flight \* conditions are not ideal*".

Is **environmentDangerous** implying **flightCondition not ideal**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

13. Given this justification: "*If wildlife is disturbed, it implies there has been an interaction with the drone.*" \*

Is **wildlifeDisturbed** implying **wildlifeInteractsWithDrone**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

14. Given this justification: "*If the land is a private territory, it implies that it is relevant for local humans and animals.*" \*

Is **privateTerritory** implying **relevantLand**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

15. Given this justification: "*If the battery is low, it's mutually exclusive with having high benefits.*" \*

Is **battery is low** mutual exclusive with **high benefits**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

16. Given this justification: "*If wildlife is disturbed, it's mutually exclusive with high benefits.*" \*

Is **wildlifeDisturbed** mutual exclusive with **high benefits**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

17. Given this justification: "*If the drone is damaged, it's mutually exclusive with high benefits*" \*

Is **damages** mutual exclusive with **high benefits**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

18. Given this justification: "*If the environment is dangerous, it's mutually exclusive with high benefits*" \*

Is **environmentDangerous** mutual exclusive with **high benefits**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

19. Given this justification: "*If the human understands the drone, it's mutually exclusive with it partaking in an unrelated activity*". \*

Is **humanUnderstands** mutual exclusive with **unrelatedActivity**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

20. Given this justification: "*If the drone is on indigenous land, anonymization of human may not be required*". \*

Is **onIndigenousLand** mutual exclusive with **anonymizeHuman**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

21. Given this justification: "*If the wildlife interacts with the drone, it's mutually exclusive with having high benefits*". \*

Is **wildlifeInteractswithDrone** mutual exclusive with **high benefits**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

22. Given this justification: "*If the flight conditions are poor, it's mutually exclusive with having high benefits*". \*

Is **flightCondition** mutual exclusive with **high benefits**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

23. Given this justification: "*If the storage is low, it's mutually exclusive with having high benefits*". \*

Is **store is low** mutual exclusive with **high benefits**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

24. Given this justification: "*If the human is identified, it's mutually exclusive with anonymizing the human*". \*

Is **humanIdentified** mutual exclusive with **anonymizeHuman**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_



25. Given this justification: "*Dangerous environment is equivalent to dangerous flight condition*". \*

Is **environmentDangerous** equivalent to **dangerous flightCondition**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

26. Given this justification: "*Wildlife interaction with the drone results in wildlife being disturbed*". \*

Is **wildlifeInteractswithDrone** equivalent to **wildlifeDisturbed**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

27. Given this justification: "*Private territory is essentially the same as relevant land, in the context of their use*". \*

Is **privateTerritory** equivalent to **relevantLand**?

If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

28. Given this justification: "*The drone must be prepared before it can be deployed.*" \*

Is **PreparingDrone** happening before **DeployDrone**?

If you have a justification, a note to add if something is unclear, provide it in others.

*Check all that apply.*

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

29. Could you please fill the current time after filling this form?

\_\_\_\_\_  
*Example: 8:30 AM*

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