



Stakeholder workshop 6

Edge cases

BO3 Using edge cases in safety validation

May 11 2021, *Teams meeting*



Stakeholder workshop 5
Edge cases
BO3 Using edge cases in safety validation

Impulse Talks:

Khastgir, Siddartha – WMG
Vanholme, Benoit - BMW

14:30

Ask your questions:
In Teams

Workshop:

Using Edge Cases
in Validation

15:00

Give your ideas / ask
extra questions:
In Padlet

Workshop:

Edge Cases and vehicle
approval / assessment

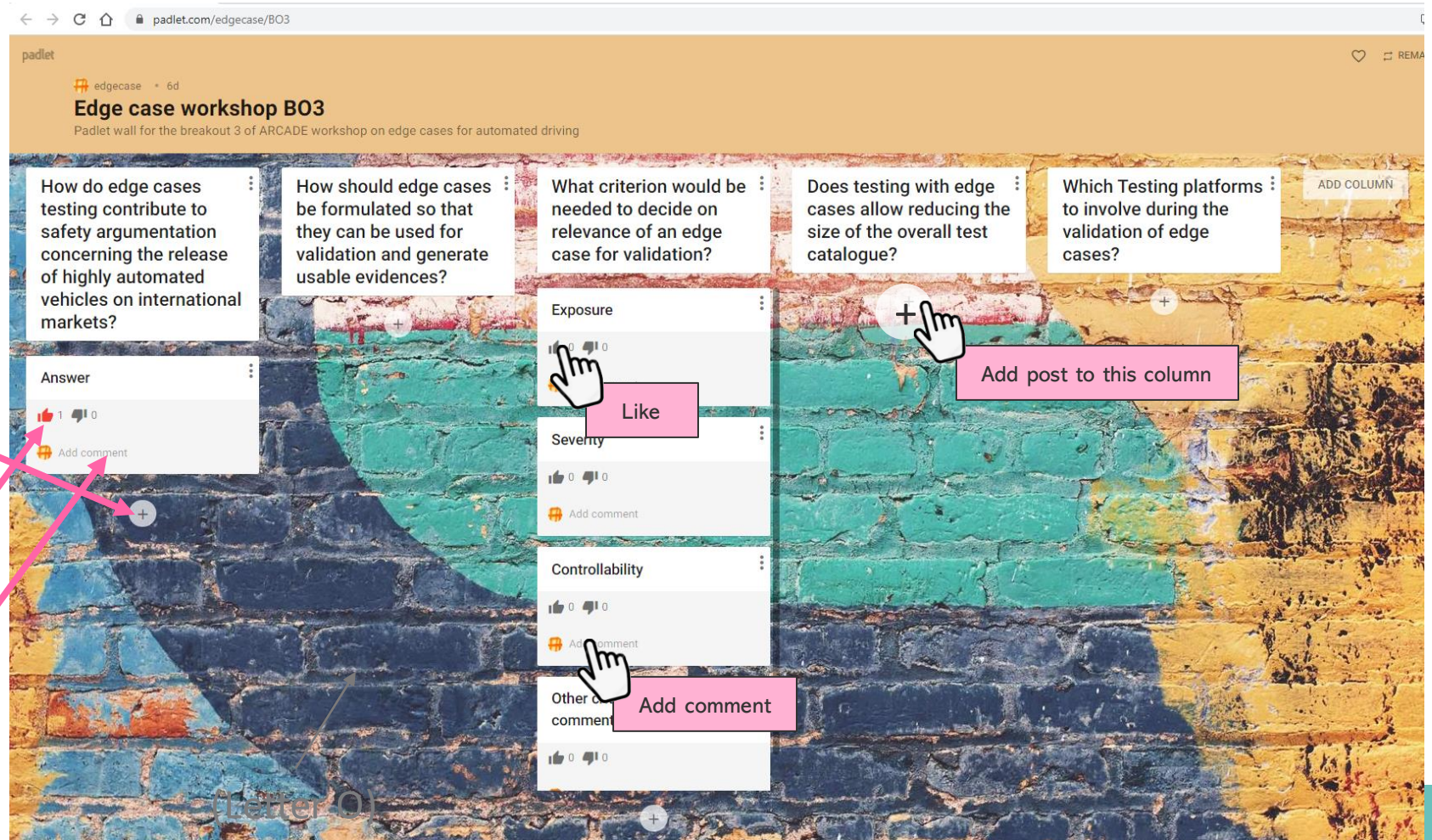
15:30

Give your ideas / ask extra questions:
In Padlet

**Wrap
up**

Very Quick Tutorial for using Padlet

Enter:
padlet.com/edgecase/BO3

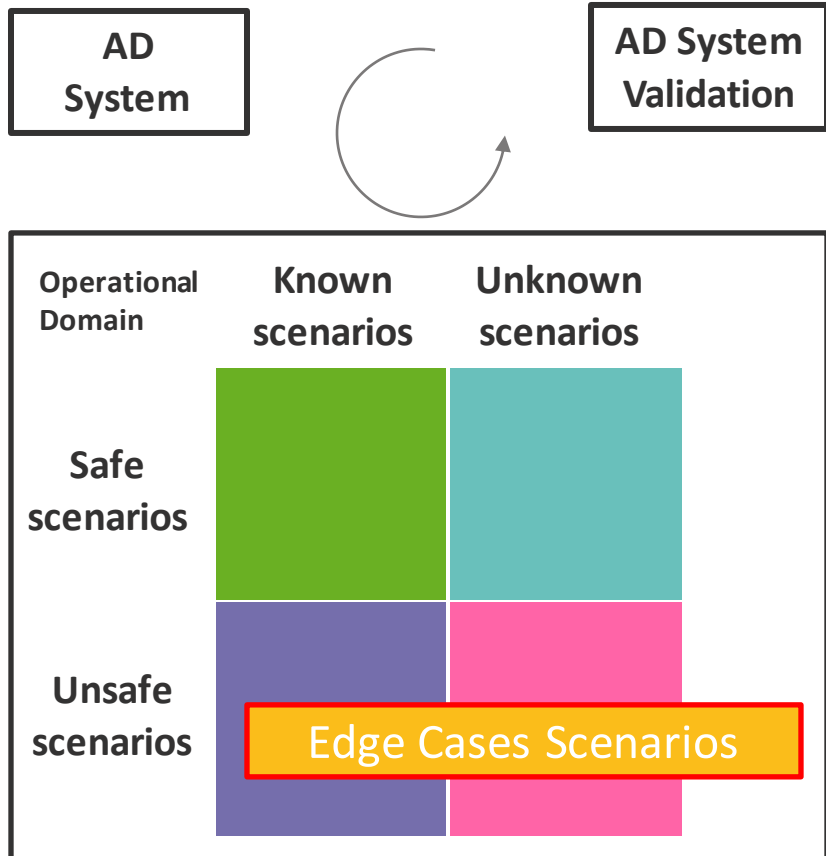


Enter your answer as a 'post-it' note under each question

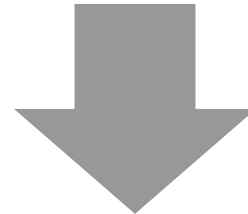
If your answer is in line with post-it put by someone else, you can 'like' it. You may also add comment.



Using Edge Cases in validation



- ✓ Identification
- ✓ Risk evaluation
- ✓ Relevance
- ✓ Implementation
- ✓ Testing



Use Edge Cases in Validation and Provide arguments that the “unsafe scenario” area is small enough for accepting residual risk

How do Edge cases contribute to safety argumentation?

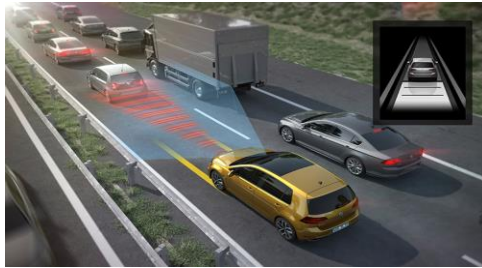
How to formulate Edge cases?

Which criteria defines their relevance?

Does testing with edge cases allow reducing the size of the overall test catalogue?

Which test platforms to use?

Edge Cases and vehicle approval / assessment



Traffic Jam Assist system 1



Traffic Jam Assist system 2

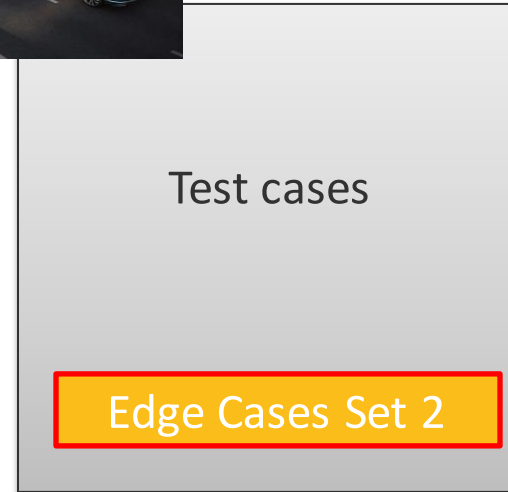
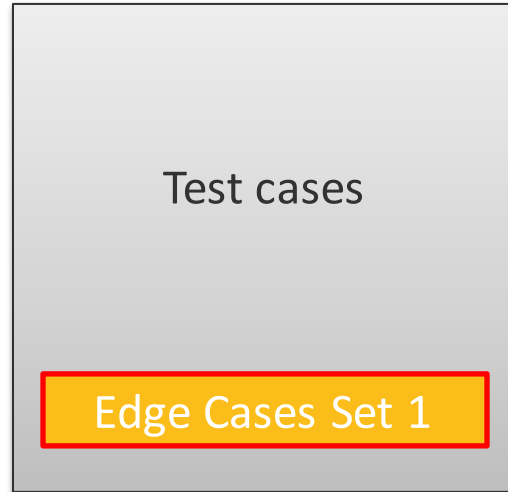
Perception

Localization

Planning

Decision making

Control



How can be demonstrated that edge cases designed by experts indeed allow finding safety-critical defects?

How to reach a set of common edge cases usable for the assessment of a specific AD system type?

What aspects of an AD System Type could lead to domain specific edge cases to be validated?