

Adding a usage

This document provides an example of how to add usage.

Adding a usage from a representation

Let's start with a representation of an autonomous vehicle in the form of a comic strip proposed by PSA in 2020. We have identified an interesting usage: The fact that the vehicle autonomously picks up the passenger without anyone inside (illustrated in Figure 1).



Figure 1. Illustrated usage.

According to the Table 1, the conditions to add this usage are met.

Table 1. Conditions to add an usage.

Condition	Evaluation
The vehicle is primarily designed to transport passengers with the ability to transport objects.	✓ Verified condition
The vehicle has a seating capacity of 1 to 9 seats (category M1 from United Nations Economic Commission for Europe, 2017).	✓ Verified condition
The vehicle has an automation level of 4 or higher on the SAE scale (SAE International, 2021).	~ Undetermined, but it is used without driver
The vehicle operates in a country with a high human development index (≥ 0.700) (Gibbs, 2022; UNDP, 2020).	✓ Verified condition

We estimated that this usage was conditioned by the deployment of AV. Therefore, it is a *new* usage. The action is performed by the vehicle, and the action is *picking up passenger*. This usage is new

because the vehicle picks up the passenger while being empty. Therefore, we have added the context: *without passenger*.

We linked usage to the initial representation, adding the following characteristics:

- Author: Robin Lecomte (reminder: this is the author of the link, not the representation)
- Date: 29/09/2022 at 10h45

Details in databases

REPRESENTATION

Name	Mobility Case Storyboard
Year	2020
Author	GROUPE PSA
Resource	PDF Document
Description	Mobility scenarios by a car manufacturer
Shape	Cartoon
Maturity	2. Projet / Vision

EXTRACTION

Author	Date
Robin L	29/09/2022 à 10h45

USAGE

Type	Subject	Action	Context
New	the vehicle	is picking up passenger	without passenger