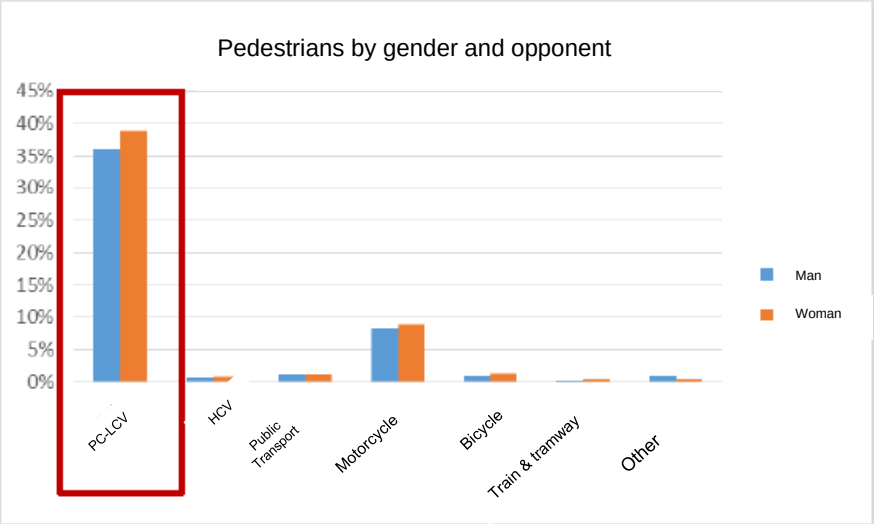
SUMMARY REPORT

Delivery date	10/10/2016
Description of the request	Study of PC-LCV accidents against rear impact pedestrians
Request date	27/09/2016
Service / Person	François Boulay et Benoît Moreau

Description	Observe the distribution of the categories of vehicles involved in accidents against pedestrians. Focus on the gender and age of pedestrians in the case of rear impact accidents involving passenger cars (PC) and Light Commercial Vehicles (LCV)
Searched Database	Database VOIESUR (version 24)
Filter / Samples	Statistical unit: a pedestrian involved in an accident • Vehicle category • Selection of accidents involving a vehicle against one or more pedestrians, excluding accidents within private network, suicide cases, 2nd stage accidents and material failure accidents. • Use of draw and recovery weights
To remember	• 75% of pedestrians are hit by PC-CV • 9% of pedestrians hit by PC-LCV are hit in rear impacts • 17% of pedestrians hit by rear impacts of PC-LCV are between 0 and 12 years old • **Overall, 1.2% of pedestrians involved in accidents are hit by rear impact of PC-LCV and are between 0 and 12 years**

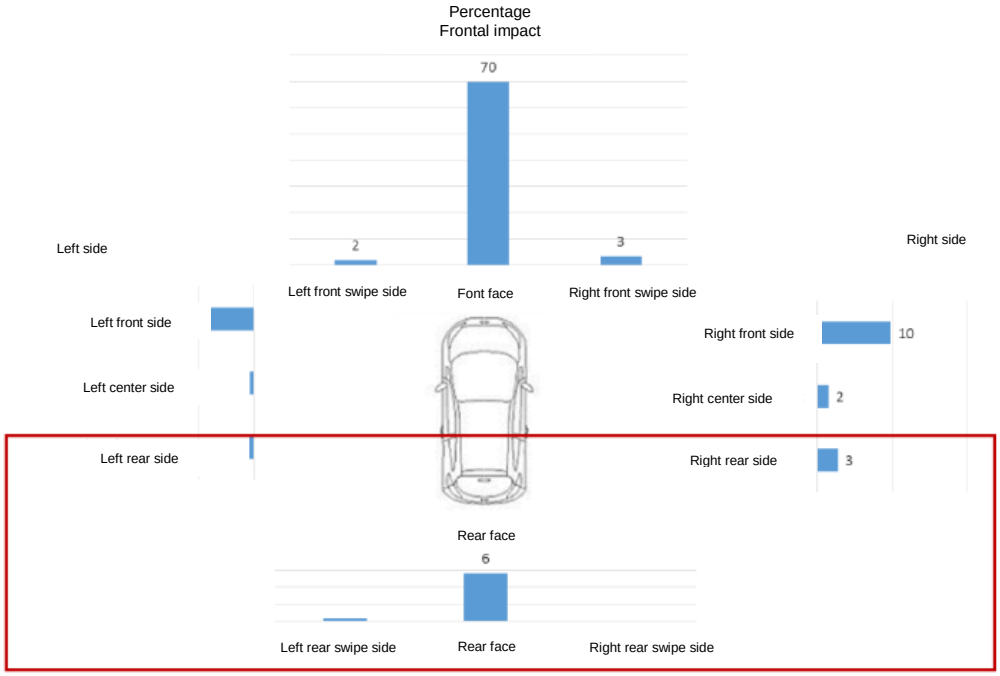
SUMMARY / KEY RESULTS

1) The vehicle involved in accident against one or many pedestrians in accordance with pedestrian gender



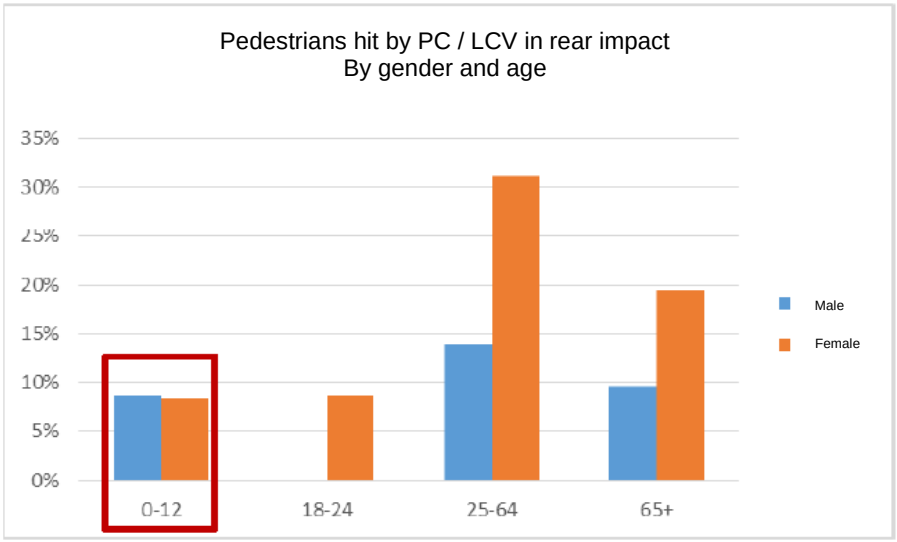
Number of observations: 12 508 pedestrians
75% of pedestrians are impacted by PC or LCV

2) Impact localization for accidents pedestrians vs. PC / LCV



9% of PC / LCV impacted pedestrians are impacted by the rear, this represents 6.8% of all impacted pedestrians.

3) Pedestrians hit by PC / LCV in rear impact



17% of pedestrians involved in an accident, impacted by the rear of PC or LCV, are 0 to12 years old, which represents 1.2% of all impacted pedestrians.

ANALYSIS

PC and LCV represent 75% of the vehicles involved in an accident against a pedestrian.

75% of the contact area of the PC-LCV with the pedestrian is located at the front of the vehicle, 14% on the front left and right fender. However, only 9% of pedestrian impacts are located at the rear area of the vehicle.

17% of pedestrians involved in an accident, impacted by the rear of PC or LCV, are 0 to12 years old, which represents 1.2% of all impacted pedestrians.