# FIMCAR Workshop

## French Automotive Industry

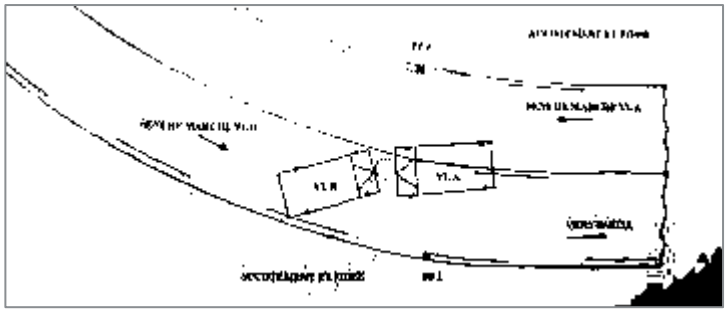

PSA PEUGEOT CITROËN

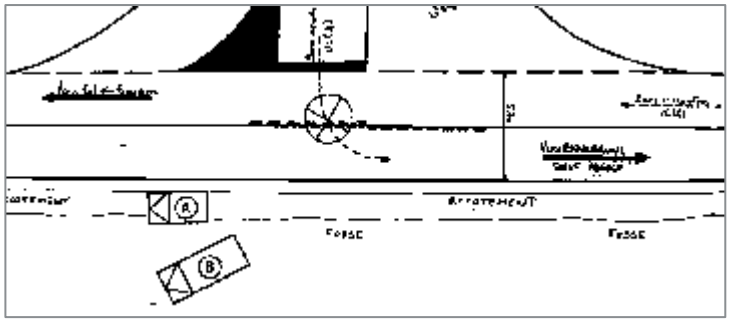
RENAULT

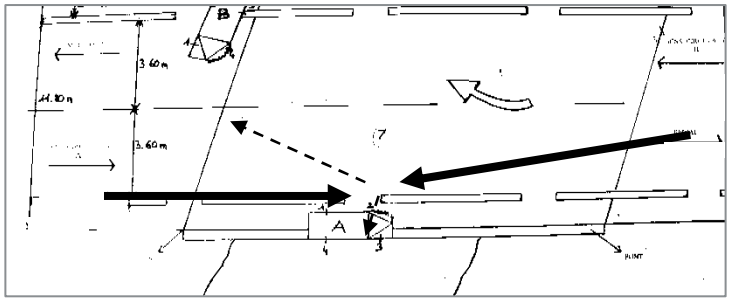
# During the last decade, the safety protection of the cars has been highly improved

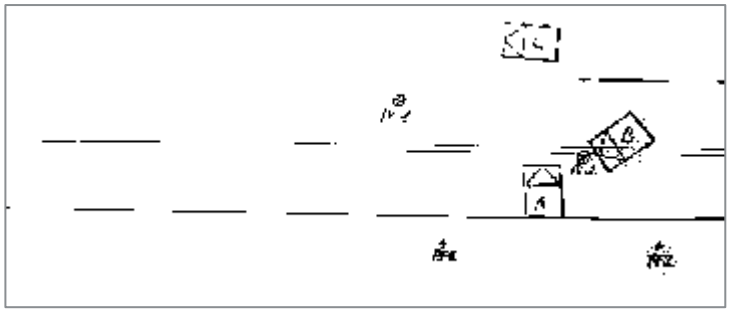
**Key factors of success to improve Safety during the car development are:**

- **in-depth analysis for better understading of the wide variety of configurations**
- **laboratory test and FEA, with relevant procedure allowing Design changes**









In cooperation with LAB



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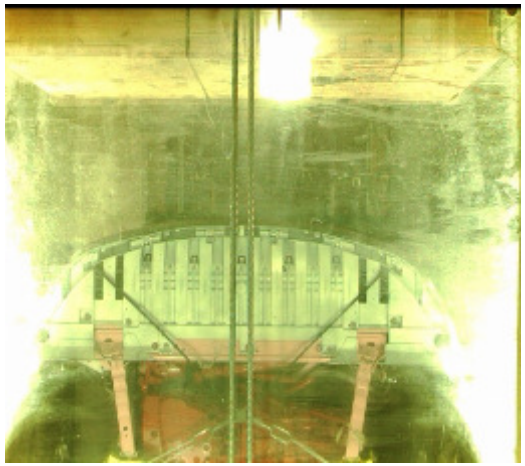
# Procedures available

ODB test



Car A

Car B



FWR test

**Nevertheless, this implies an increase of the front-end stiffness**



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# Complexity of Car to Car interaction (same cars as previous)


**There is still room for improving structural interaction in car to car impacts**



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# Technical Road Map

## Search for safety benefit through better energy absorption during the crash in real life

=

Driver

Passenger

+

Car into PDB evaluation = Self + Partner

**PDB combines stiffness and geometric compatibility preoccupation**

Request

procedure as simple as possible

With good repeatability and reproducibility performances



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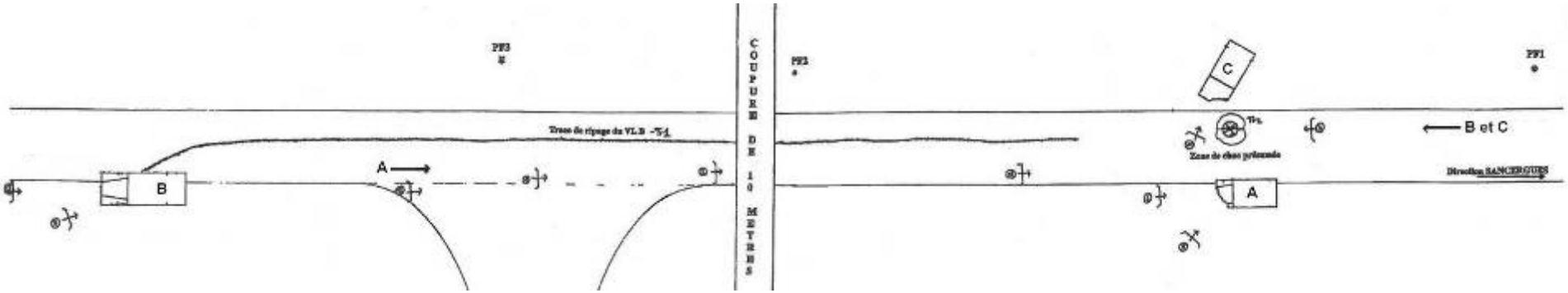
# VISION

- **Improve efficiency of structure through better interaction (geometry and loads)**
- **Add partner evaluation to self protection**



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# Thank you