



Newsletter No. 3

(October 2021)

PIONEERS Final Event (Barcelona)

On 29 of September of 2021 PIONEER Project held its Final Event in Barcelona. The open activity **was focused on three acts:**

1. **A conference press addressed to international media.** In this activity Enric Soriano (PIONEERS Project coordinator) introduced the project and left the floor to Ignasi Ferrer (Innovation Director from IDIADA), who explained the importance of these types of projects and encourage EC to continue investing in rider's safety.



2. A conference press addressed to Spanish media. Taking advantage of the physical presence of important Spanish authorities in the event. PIONEERS project organized an activity with Pere Navarro (Spain road safe directorate), Ramon Lamiel (Catalan road safe directorate), Josep Mateu (President of RACC) and Ignasi Ferrer (Innovation director of IDIADA). In this activity, Ricard Casalins (PIONEERS dissemination manager) explained a general presentation of Project aimed to Spanish press.



3. A general presentation aimed to European stakeholders. In the afternoon session PIONEERS Work Package leaders explained the main results of the Project. At the end of the presentation some physical prototypes were shown and explained in detail.

PIONEERS WP1 / Scenario: in-depth characteristics

Identify critical Accident Scenarios → Define Accident Scenarios → Determine detailed characteristics of critical Accident Scenarios

In-depth crash data from:

- Germany (GIDAS, LMU fatalities)
- Italy (In-Safe)
- France (EDA)
- Australia (NSW)
- worldwide (IGLAD)

PIONEERS WP2 WORK DONE

Task 2.3 – Head-neck mechanics

Human Model: SUFEHM

Injury assessment

Probability of DAI

Axonal strain

Virtual protector

PIONEERS Impact and abrasion

PIONEERS Thermal tests results

Test	Total [s]
SCP open	0.581
SCP closed	0.562
EPS open	0.405
EPS closed	0.467
Headform only	1.362

PIONEERS WP6: Work summary

- Safety evaluation:** Accidents avoidance or mitigation / Reduction of morbidity & severity of injuries
 - Pre Crash Braking
Accident reconstructions
 - Airbag Jackets
Accident reconstruction
+ Injury Risk Function
 - Lateral Protection
Accident reconstruction
- Economic evaluation:** Cost of injuries resulting from motorcycle crashes
 - based on SAFETY CUBE software (www.safetycube-project.eu)

