French considerations on R 22 - Helmets

Pierre BAZZUCCHI
French MoT
General Directorate for energy and climate
GRSP 62nd session
December 2017
French considerations on R22

- Motorcycle helmets have been evolving for several years thanks to new technologies

- Research in biomechanical for head protection has made a lot of progress

- Last series of amendments of R22 entered into force in 2000 (last supplement 2012)

- Clarifications / new procedures or requirements needed to be added to take into account these new elements
French considerations on R22

- Movable protective lower face cover
  J + P marking

- Additional sun visor / double visor,
  luminous transmittance (§ 2.12.),
  sun visor definition (CE EN1938 marking,
  mechanical characteristics (§ 7.8.2.))
French considerations on R22

- New add on to take into account:
  - Lightning equipment
  - Cameras
  - Audio – phone equipment
  - Design equipment
French considerations on R22

- Progress in research for head protection improvement

- New model (Finite element head model) with brain and skull

  Studies from Strasbourg University (Pr Remy Willinger)

New tests (oblique impact) and additional criteria (linear and rotational acceleration) ?

New head for testing ?
Thanks for your attention