

# Airbag Technology Can Make The Difference

## A motorcycle helmet with an integrated airbag

### How can we reduce severe head injuries?

Together with Italian helmet manufacturer Airoh, we have studied and developed a concept of a motorcycle helmet with integrated airbag. The goal was a helmet with low mass and attractive design that, when needed, can expand and provide the rider with protection far beyond current state-of-the-art motorcycle helmets. A development boundary being that in situations when the airbag is not deployed the helmet should still meet all the usual safety requirements and provide the rider with levels of protection expected from a conventional helmet.

A prototype helmet with an integrated airbag demonstrated that protection improvements could be reached without critically compromising the design, weight or comfort.

Testing shows the peak linear head acceleration and hence skull fracture risk can be reduced substantially through this incorporation of airbag technology.



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### Probability of serious injury due to a skull fracture

