

Brain Shell

TRAUMATIC BRAIN INJURY PREVENTION

ENGLISH

Connected rugby helmet

Detects and alerts in real-time



Your brain, our priority

With Brain Shell

Play safely



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Team

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21.21 DIRECT



INNOVATION IN SPORTS SAFETY

ACTUALITÉS

CASQUE DE RUGBY CONNECTÉ

Présidentes Américaines La candidate républicaine Nikki Haley remporte sa première primaire à Washington DC.

CAC 40	7956,41 pts	+0,2
ENGIE	14,67 €	-0,1

Our CEO

Arwenn Semplicini is a young rugby union player who has been practicing this sport for about 3-4 years now. As many know, rugby is a particularly physical and violent sport, with an average of about a hundred tackles per game. This is an aspect that most people suspect but may not always fully measure.

Unfortunately, this inherent violence in rugby has had direct consequences on Arwenn's health. She has indeed suffered two concussions, or head injuries, following violent impacts received during matches. The first time, while she was still playing at the amateur level, she took a cleat to the head and had to manage this concussion on her own, a rather difficult period given the lack of support.

The second time, while playing for the prestigious Racing 92 club, Arwenn was again the victim of a TBI. But this time, she benefited from better medical follow-up and more appropriate support, which allowed her to better get through this ordeal.

It was following these two difficult personal experiences that Arwenn became aware of the importance of better detecting and managing this type of trauma in rugby players. She then had the idea of creating an innovative system, called Brain Shell, which uses sensor technologies to identify in real-time violent impacts that could cause Traumatic Brain Injuries (TBIs)

Arwenn Semplicini

Goal

Thanks to this innovative system, Arwenn hopes to be able to significantly contribute to improving the safety of rugby players, a sport she loves despite the risks involved. She is convinced that Brain Shell can change practices and thus preserve the health and physical integrity of all the enthusiasts of this demanding sport.



Dimitry Siebert



The team of Brain Shell

The principle is simple: thanks to various sensors integrated into the players' equipment, Brain Shell is able to detect sudden accelerations of the skull and brain, which are the cause of concussions. As soon as a critical threshold is crossed, the application developed by Arwenn and her team immediately signals it, thus allowing for rapid medical care of the affected player.

Beyond this real-time detection, Brain Shell also aims to create a true digital medical record for each player, by recording all data related to the impacts suffered. This will allow for much more detailed monitoring and analysis of head injuries, in order to further optimize the prevention and management of these injuries.

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