



CASE STUDY: CONSUMER

Tackling concussion in impact sports with PROTECHT

“We are committed to using the very best technology available in building a solution which will undoubtedly help to protect sportsmen and women from serious head health issues in the short, medium and long terms. The innovative Keytree team continues to be an integral part of this critical ongoing mission.”

— Chris Turner, CEO
Sports & Wellbeing Analytics

QUICK STATS

- Strategic partners: Keytree, SAP®, and Swansea University
- Founded in 2016 in Swansea

KINETIC ENTERPRISE PILLARS

Intelligent	✓
Clean	
Inclusive	✓
Responsive	✓

THE ISSUE

The Rugby Football Union calculated there were 21.5 concussions per 1,000 player hours in the English Premiership during the 2019/2020 season – one concussion in every six games. Concussion across all impact sports is increasingly recognized as having serious immediate and long-term medical ramifications for players.

THE SOLUTION

PROTECHT measures all minor and major impacts to athletes in real-time through the use of a mouthguard worn by players. The data gathered by the unique hardware and electronics embedded in the mouthguard provides insights and analytics to pitch-side coaches and medical staff.

The data is sent to an app with an intuitive user interface, making data analysis quick and easy, while also displaying in-play and post-play analytics around these impacts.

RISE WITH SAP

Business Process Intelligence ✓

SAP Business Network

SAP Business Technology Platform

Tools and Services ✓

SAP S/4HANA® Cloud

Cloud infrastructure by choice ✓

SAP TECHNOLOGIES LEVERAGED

- SAP HANA®
- SAP Cloud Foundry
- SAP® Leonardo
- SAP Analytics Cloud

THE IMPACT

-  PROTECHT provides an additional objective layer of information to support rugby management’s decisions regarding player wellbeing
-  PROTECHT produces objective surveillance on all impacts, seen and unseen, in training and match environments
-  PROTECHT can report on player head impact loading over an instance, a week, a season or a career, which historically was not achievable before PROTECHT
-  Pitch-side coaches and medical staff can access real-time data detailing when multiple impacts aggregate to a dangerous threshold level
-  Accurately records and analyses concussive impacts using data that is trusted
-  The pitch-side team can access objective data to supplement their decisions on a player’s ability to continue on the pitch, whether during training or a match
-  An intelligent custom-fitted mouthguard relays all impacts to a player’s head either directly or as a consequence of another movement while wearing the mouthguard to purposely designed software as they happen

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