

## FIFA Innovation Programme Project Summary

FIFA Innovation Challenge:	Innovative EPTS (see details below)
Project Title:	Tibtop Connect – smart shinguards
Company/product:	VBKAM / Tibtop
Supporting club:	Olympique Marseille
Project period:	01.09.2021-31.08.2023

### FIFA Innovation Challenge Details

#### **Challenge 2: Innovative Electronic Performance & Tracking Systems**

Category: Football equipment & playing surfaces

The most common type of EPTS in football is the wearable worn in a vest on the player’s upper back. FIFA’s impact assessment testing and Quality Programme for EPTS have created a recognised framework for these systems to be tested and approved in accordance with the Laws of the Game. As technology develops, FIFA is keen to explore systems that currently do not conform to this definition but add value to the performance or medical aspects of the game by offering new data sources that are currently not available or simpler and more cost-efficient solutions for the football world. Any devices must be able to demonstrate this added value as well as show that they do not pose any risk to both the player wearing the EPTS and any potential opposing player.

### Executive Summary of the Innovation Project

Tibtop Connect is a smart shin guard connected to a mobile application allowing for the analysis of the footballer's performance by the athlete himself or by the technical staff. The sensor is integrated within the shin guard and does therefore not require adding an extra garment or device to the player's clothing. The combination of a GPS unit and inertial measuring unit (accelerometer, gyroscope and magnetometer) records the results of the player and allows for an in-depth analysis immediately after the match or training session. As a low-cost affordable individual or team device, it offers data to a whole new group of users. The core aim of this Innovation Project is a validation of the EPTS components within the Tibtop Connect device to allow for certification under the FIFA Quality Programme for EPTS. Additional research will be carried out to identify the particular benefits of lower-limb devices with multiple sensors in order to assess whether new test requirements are meaningful in the future.

### Results & additional documentation