# IOWN INTEGRAL

## Improving proprioceptive feel of golf shots using the Internet of Things (IoT)
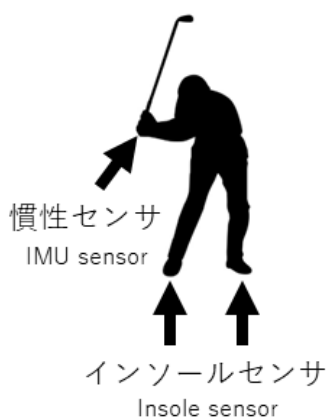### Interference-free sensers and a smartphone helps getting the hang of efficient swing
# Customer Experience Value Creation

リリースの力感の
習得を支援します
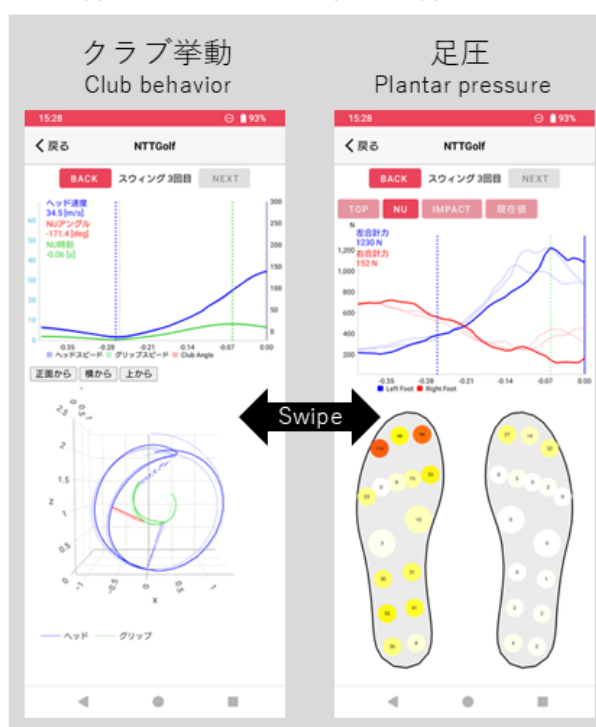Assistance for acquiring the proprioceptive feel of the release

スイングダイナミクス
の非拘束センシング
Interference-free sensing of swing dynamics

慣性センサ
IMU sensor

インソールセンサ
Insole sensor

スマホアプリ画面
Appearance of the smartphone application

SBS SPORTS BRAIN SCIENCE

クラブ挙動
Club behavior

足圧
Plantar pressure

Swipe

リリースに関わる動的特性を一打ごとに即時フィードバック
Dynamic features behind the release are displayed immediately after each shot

## ///Technical Issue
Analysis of visually observable motions fails to represent dynamic features related to force control, resulting in a mismatch with users' subjective feel of their own swings.

### ---Technology
Interference-free extraction and instant feedback of the swing dynamics contributing to the performance improvements.

### ---Applicable Business
Self-training tool for general consumers（in 2027）

## ///Research Goal
Feedback of invisible dynamic features behind the swing supports self-training and assists communication between learners and trainers.

### ---Novelty
Most conventional techniques have aimed at improving the swing form and posture by visualizing the movements of the body segments and the club. Our technique assists users to improve the proprioceptive feel of swing by extracting the dynamic features affecting the swing efficiency and providing the instant feedback.