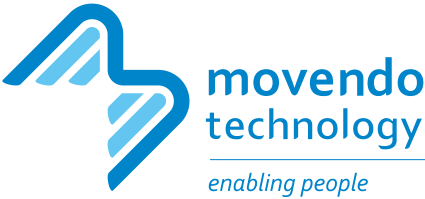


3. Training SUGGESTIONS

Depending on the deficits found in the evaluation, **the algorithm proposes a personalized training** on a specific functional area, based on the severity of the subject's deficit (red, orange, yellow, green).

The performance index covers **different functional areas** and gives an indication of which of these has a poorer outcome and therefore **which aspect should be better trained to maximize one's performance**. The normative data ranges are those relating to the most performing subjects who have carried out the test on the device.

functional area	level	suggested macroarea	starting difficulty
Ankle ROM	Necessary	Ankle ROM	Easy
Ankle strength	Suggested	Ankle strength	Medium
Squat	Necessary	Squat	Easy
Core	Necessary	Core strengthening	Easy




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"The performance index may only be used in association with hunova/huno/huno s devices."

 performance index



robotics to improve and assess
THE PERFORMANCE

CLINICAL STUDY

The performance index was born from a close collaboration with the team of athletic trainers and physiotherapists of a series A soccer team evaluated and treated during a sporting season.

The multidisciplinary group identified the functional areas related to the athlete's physical performance and identified the tests that best evaluated each area.

The performance index is used along with hunova and huno, its orthopedic version. The technology has already evaluated and treated over 5,000 patients in hospitals and specialized centers all over the world in orthopedic, neurological, geriatric, pediatric and sports fields.



1. THE INDEX of performance evaluation

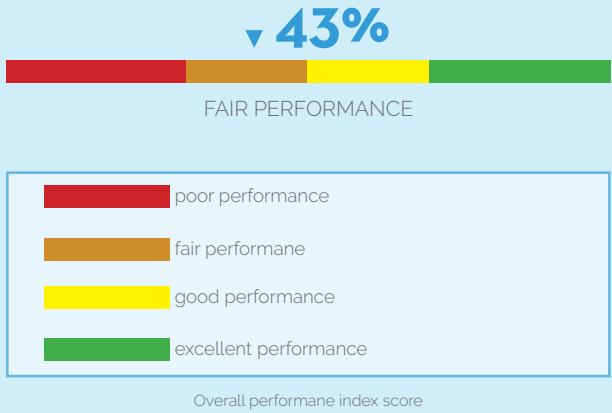
The performance index is a total body evaluation index that aims to evaluate and compare the patient's performance with the results of the best performing subjects.

The performance index is an optimal solution for all athletes, amateurs and professionals, with a view to increasing athletic performance and of physical performances comparison and confront it with that of highly performing subjects with the aim to optimize it.

By working specifically on balance and proprioception, it is possible to treat those musculoskeletal disorders that are one of the primary causes of accidents ^{1,2} and absences at work.

2. Riva D, Bianchi R, Rocca F, Mamo C. Proprioceptive Training and Injury Prevention in a Professional Men's Basketball Team: A Six-Year Prospective Study. J strength Cond Res [Internet]. 2016 Feb;30(2):461-75.

1. Proprioceptive Training and Prevention of Anterior Cruciate Ligament Injuries in Soccer (Cerulli, Benoit, Caraffa, & Ponteggia, 2001; Mandelbaum et al., 2005; Mohammadi, 2007).

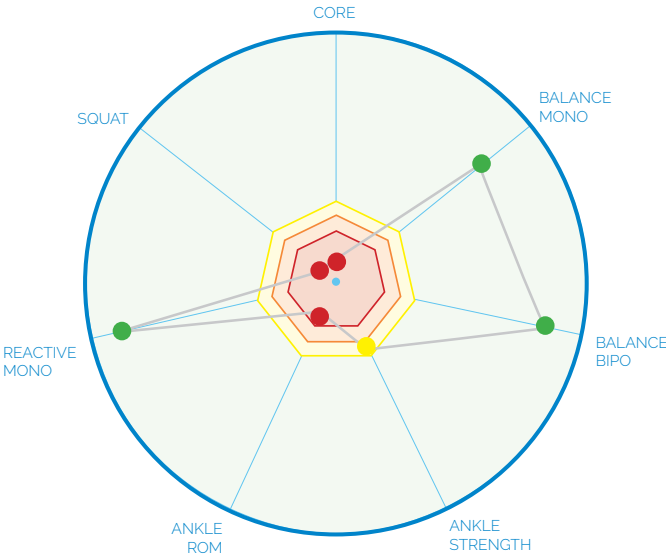


2. RESULTS

Training suggestions to maximize^{1,2} performance Deficit personalized analysis

The performance index is multi-sport thanks to the following:

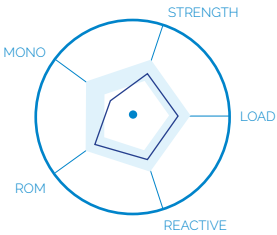
- quick and non-invasive screening
- automatic generation of the overall performance
- personalized training based on objective data



Graphic representation of the functional deficit of the areas analyzed by the performance index.

PERCENTAGE OF SYMMETRY

-12%



A percentage of symmetry between -20% and +20% can be considered normal. If % > +20% -> asymmetric: performance is better on the right side. If % < -20% -> asymmetric: performance is better on the left side.

The performance index is calculated as a combination of the results of the evaluations grouped in 7 areas.

The performance index, in case of a deficit in one or more functional areas, suggests the best preventive strategy focusing the treatments in those areas where the robotic evaluation has found a performance which is not excellent.

* If the index is performed on huno, the Core functional area will be absent. The overall performance broken down into the 6 functional areas will be shown as a 6-point radar chart.

