

The Technological Revolution Shaping the Next Generation of Champion Athletes

SonicBone has developed a cutting-edge ultrasound technology combined with AI that accurately determines skeletal age and predicts the final adult height of youth athletes. This groundbreaking innovation is already trusted by leading sports organizations, elite clubs, national teams, and top universities worldwide. BAUSport™ enables smarter talent ID, optimized training programs and injury prevention.

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BAUSport system for biological maturation monitoring of youth Athletes

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In the world of professional sports — where a single decision can shape an entire career — the demand for accurate data and fresh insights has become inseparable from the daily work of coaches, scouts, and sports scientists. Elite clubs, academies, and national teams across all sports invest vast sums in identifying and developing young talent and in reducing injuries. Amid this race, one Israeli company stands out for introducing a new language to the field of sports medicine: **SonicBone – Biological Maturation monitoring of youth athletes**.

The company has developed **BAUSport™**, a groundbreaking ultrasound system combined with AI technology. The system enables fast, accurate, and non-invasive assessment of **skeletal age** in young athletes and prediction of their **final adult height**. Equally important — it offers a simple and efficient user experience: the device is compact, portable, easy to operate by club staff, and provides detailed real-time reports. For teams and coaches seeking full control over every aspect of athlete development in any sport, this is nothing short of a revolution.

The Development Gaps that Challenge Coaches

Uri Levin, Co-founder and VP Marketing: Among children and adolescents, there are often vast differences between individuals of the same chronological age due to variations in biological development. These gaps pose enormous challenges for coaches and professionals: how to train, how to prevent unnecessary physical stress, and how to make informed decisions about **Talent identification, skill development and injury prevention**.



Uri Levin, Co-Founder & VP Marketing together with Shmuel Levin, Inventor and CEO

While chronological age appears on an ID card, it is **Biological Age** that most critically affects a player's performance and future success. In the past, professionals relied on outdated methods — costly X-rays or inaccurate prediction models — which were unsuitable for the daily reality of academies and clubs. This is where **SonicBone** steps in, offering a practical, accessible, and precise solution.

A Holistic Picture of Every Athlete

Shmuel Levin, Inventor and CEO: The uniqueness of **BAUSport™** goes far beyond a single measurement — it lies in the ability to build a **comprehensive, holistic profile** of each athlete. The system provides a range of indicators: the percentage of final height already achieved, stages of puberty, identification of growth spurts, and additional physiological forecasts.

Combining this data allows coaches to gain a much deeper understanding of the player — not just who they are today, but also what their potential will be in two, five, or more years. Instead of relying on scouts' intuition or partial assessments, coaching staff now have a **scientific, data-driven tool**. This represents a paradigm shift: decisions are made based on **quantitative data** rather than **subjective opinions**.

A Strategic Tool for Coaches and Sports Scientists

SonicBone's advantage is also evident in its ability to **prevent injuries** and **identify load risks in advance**. The system raises a "red flag" when an athlete's body is not yet ready for increased physical load, significantly reducing the risk of severe injuries.

In addition, it supports advanced approaches such as **bio-banding**, which allows training and competition programs to be tailored not by chronological age but by the athlete's actual developmental stage. This maximizes the potential of "late bloomers" — players who in the past might have been rejected or overlooked but now, thanks to this technology, receive a genuine opportunity to succeed.

The ability to predict final height adds another strategic layer: enabling better alignment of players with specific roles and positions on the field. In this way, the system becomes a **critical strategic tool** influencing decisions from talent selection to recruitment and investment strategies.

A World-Class Customer List

SonicBone's client list is truly impressive:

- National football associations such as those of **England FA, the US Soccer, Hungary**, and others.
- Elite European football clubs including **Paris Saint-Germain, Borussia Dortmund, Bayer Leverkusen, TSG Hoffenheim, FC Barcelona, Red Bull, Brugge**, and more.
- Top MLB baseball teams such as the **Houston Astros, Atlanta Braves, New York Mets, San Francisco Giants, LA Dodgers**, and more.

- National teams in **handball, volleyball, basketball, rugby, swimming, kayaking, athletics**, and additional sports.
- Leading universities and sports research institutions from around the world.

Clear Economic Value

Uri Levin: Beyond the professional and health-related impact, **SonicBone also provides direct financial value** to sports organizations. Sports injuries are one of the main causes of financial losses for clubs, leading to high treatment costs, reduced revenue, and decreased player market value. According to company data, regular use of the system yields a **measurable financial benefit of around €1 million**.

The savings come not only from injury prevention but also from the ability to manage players' career paths more intelligently, avoid unnecessary investments in unsuitable talent, and maximize the value of every young player on the roster.

Putting Israel on the Map

Shmuel Levin: The story of **SonicBone** is another testament to Israeli innovation. Engineers, physicians, and data scientists joined forces to transform a field that had remained stagnant for decades — skeletal age assessment and biological maturation — and turn it into a **new global standard** and a **new language** for understanding the development of young athletes.

What began as a revolution in Israel is now shaping training grounds and stadiums worldwide. **SonicBone is helping build new generations of champions.** In every professional club, every academy, and every national team, **SonicBone's assessment will become an integral part of daily operations.**

Moreover, SonicBone's technology has potential applications beyond sports — in **Paediatric medicine** and **immigration age assessments**