GEN AI

GENETICS • PERFORMANCE • INTELLIGENCE

by SPORTOTEAM

Football performance and video analysis platform

One file per player from academy to first team: two HD cameras covering the pitch, live phone-based pitch tests and AI-powered devices.

ACADEMY | FIRST TEAM | SPORTS SCHOOL | COACH | ATHLETE & FAMILY

WHAT WE DO

We measure each player's physical profile, track progress and ground decisions in data

01 · WE MEASURE

With camera, phone and devices

Two pitch cameras, 25 live phone tests and data from VALD, Footbar and GPS vests merge into one athlete file.

02 · WE INTERPRET

By age, position and the individual

Literature-based reference bands, left–right symmetry, load and readiness score. AI writes a separate commentary on each result.

03 · WE SUPPORT DECISIONS

A screen for everyone

Management gets a KPI dashboard and academy file, coaches a daily “reduce / hold / increase”, players and families a progress report.

Not “How many goals?” but “Where did they start? How far have they come?”

HOW IT WORKS

Four data sources, one engine, three screens

Two pitch cameras

Two fixed HD cameras record games and practices.

Live phone tests

25 pitch tests; results in about 1 minute via skeleton tracking.

AI-powered devices

VALD, Footbar and GPS vest data are imported automatically.

Morning screening

60-second wellness survey, pupil reflex, medical record.



SPORTOVISION GEN AI engine

Skeleton tracking · pitch homography · reference bands · load & risk engine · AI commentary · confidence level

Management	KPI dashboard, academy file, monthly summary
Coach	Squad list, weekly targets, performance table
Athlete and family	Personal report, progress curve, daily task

PITCH CAMERAS

Two HD cameras watch the pitch



Full-pitch recording from a fixed angle above the stands · illustrative image

Pitch coordinate mapping

Homography fits both views onto one pitch plan; every player is tracked in meters.

Load per player

Distance, high-speed running (HSR), sprint count, tempo per minute.

Heat map and position

Positional slots, load by match phase, peak 1-3-5 minutes of the match.

Even without GPS vests

Load data comes from the cameras; opponent and referee analysis in the same flow.

AI-POWERED DEVICES

The club's devices connect to the system

VALD

ForceDecks · NordBord

- Jump and strength profile from force plates
- Hamstring strength and left–right ratio via NordBord
- Data straight to athlete file and strength plan

Footbar

Player sensor

- Sensor data pulled automatically
- In one table with training and match load
- Read together with camera and GPS data

GPS vests

Catapult · STATSports · Polar · Garmin · Kinexon · Fitogether

- 50 Hz accel/braking bands
- 6 speed zones, 4 accel, 4 braking bands (club-specific)
- Peak 1-3-5 match minutes become training targets

Device if available, camera if not.

Same metric, same reference band, one performance table. Adding a device later never breaks past data; if a threshold changes, the archive is recalculated. AI writes a commentary on every result.

CLUB AND SPORTS SCHOOL MANAGEMENT

What does management see?

WHAT THEY SEE

Command center
Today's status of every age group: ready, at risk, injured; pending tests.

Academy KPI dashboard
Players promoted to first team, development score, practice attendance, retention rate.

EPPP-compliant file
Individual development plan, physical performance report, potential score.

Availability
Who is out for how long; injury burden and days lost by team and season.

Monthly board summary
Automatic PDF for the board; comparison across age groups.

Black box
Decision-time data is archived: a documented answer to “why was he fielded that day?”

BENEFIT

- Academy investment and squad decisions rest on data
- Player development is documented; an objective file for first-team and transfer talks
- Days lost to injury become visible
- Transparent, measurable service for families
- Data belongs to the club: GDPR/KVKK, role-based access, audit trail, no lock-in

COACH

What does the coach see?

WHAT THEY SEE

Morning squad list
Green / yellow / red; a “reduce / maintain / increase” tip per player.

Performance table
Distance, HSR, sprint, accel/decel; color-coded vs. position and match-day averages.

Weekly target report
MD-4 to MD+1 targets; deviations flagged automatically, table arrives Friday.

Test results
Value, reference band, left–right symmetry and change vs. last test.

Planned vs. actual
Expected vs. measured session load, side by side.

Game tagging + video
Tagged moments linked to player clips and the dashboard.

BENEFIT

- Training is individualized per player
- Spots injury risk in the data before pain appears
- Missing load for low-minute players is made up the next day
- More time on the pitch, less on reports
- Speaks the same language as medical staff and families

ATHLETE AND FAMILY

What do the athlete and family see?

Personal report
Club-branded PDF: 8 domains, radar; figure, table and band for every test.

Progress curve
Percent change vs. the previous result as each test is repeated.

Left–right gap
Comparison of both sides in single-leg and balance tests.

Athlete app
Morning wellness survey, video invite, daily schedule.

6 GROWTH BENEFITS

1. The child's physical profile becomes measurable
2. Strengths and areas to develop become clear
3. Left–right differences are tracked
4. Age-appropriate training plans backed by data
5. Retesting tracks progress objectively
6. Coach, medical team and family share one language

⚠ **The goal is not to compare a child with others, but to understand their own profile.** Assessments alone do not definitively predict future performance or injury; results are interpreted alongside clinical status, training history and developmental stage.

OUR LIMITS

What does the system see, and not see?

The camera sees and measures

- Joint angles and skeletal motion
- Jump height (from flight time)
- Sprint and agility times, change-of-direction moments
- Left–right symmetry and landing knee valgus
- Balance sway and posture
- In-game position, distance, sprints, heat map
- Morning pupil reflex

Doesn't see · we won't claim

- **Muscle activation** → needs EMG
- **True force values** → added via VALD force plate and NordBord
- **Heart rate and internal load** → via GPS vest or HR strap
- **Accuracy on poor footage** → flagged low-confidence, test repeated
- **Certain prediction of the future** → results read with clinical and training history

We never guess what we can't measure. Every report states “measured / not measured” and confidence.



From data to decisions.

Next step: live demo day with an academy age group and the first team · sample athlete file with your data · board presentation