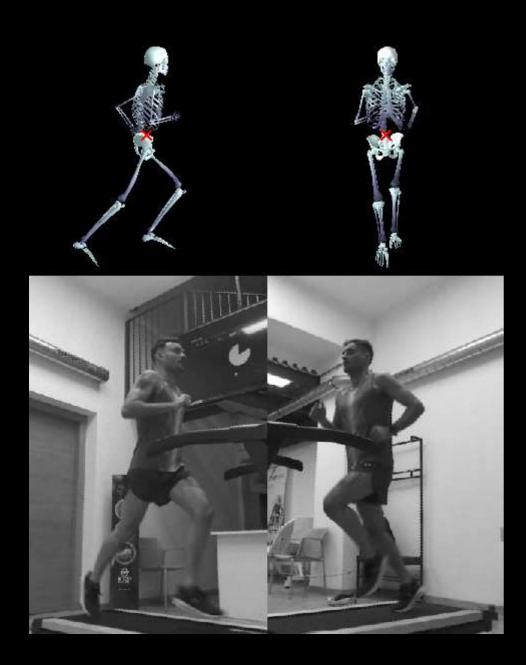
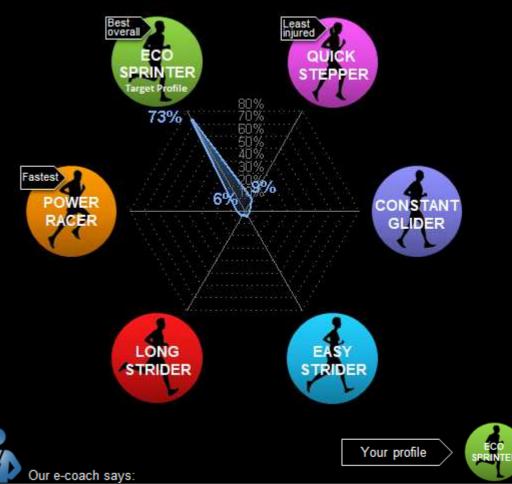
MotionMetrix.

Date: 05 Mar 2021 Time: 6:07 PM Speed: 18 km/h

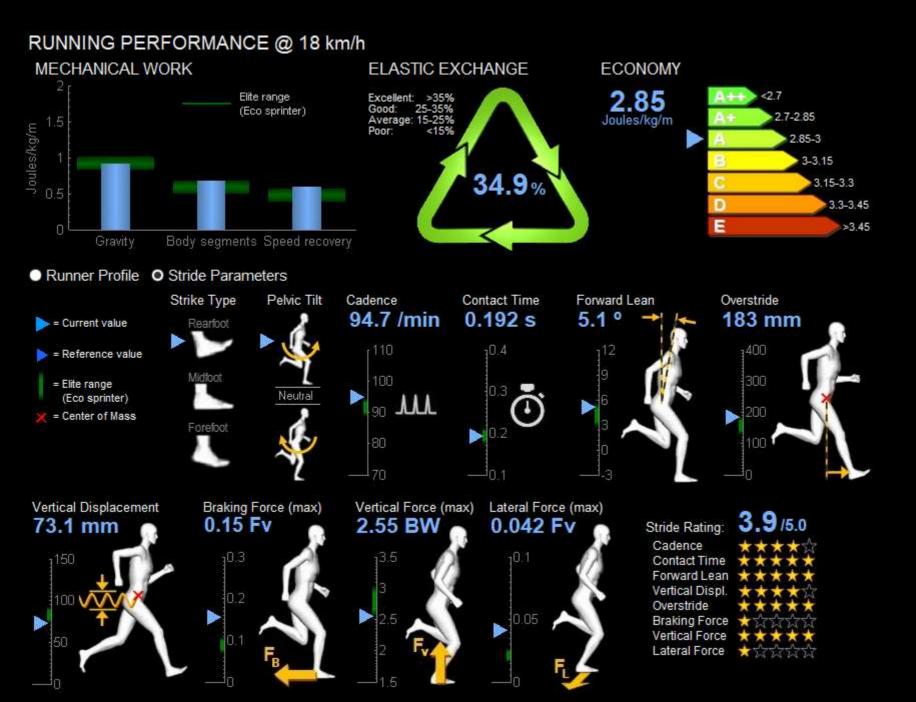




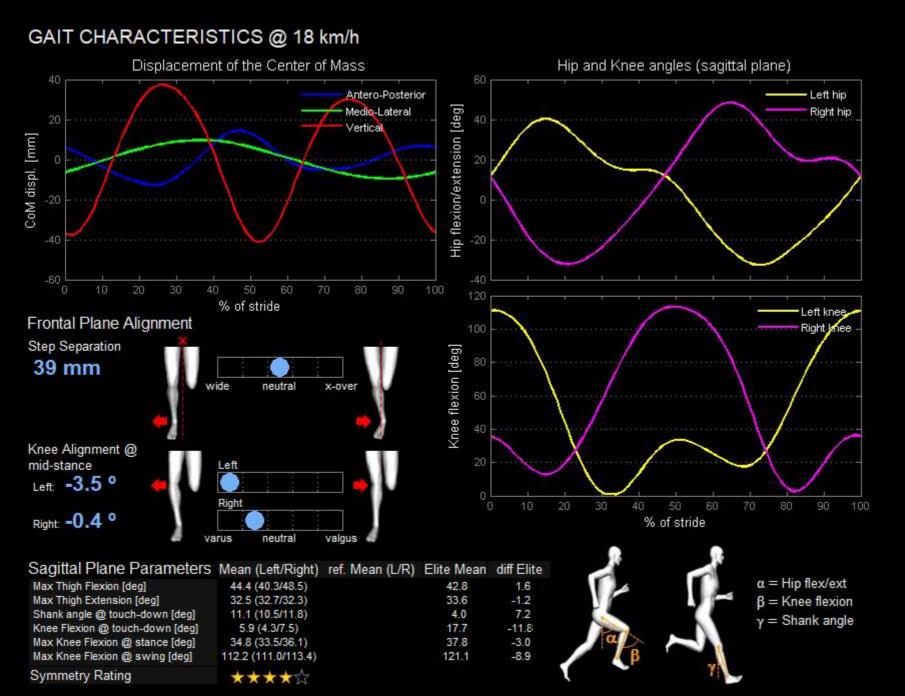
This is the target profile, towards which you are guided by the green elite range fields and the stride rating score. It shows the best performance across the full long distance range taking into account also injury risk. Main focus can be put on optimising endurance and addressing any individual gait anomalies.

Note from your service provider: SCARPE ALLENAMENTO

MotionMetrix





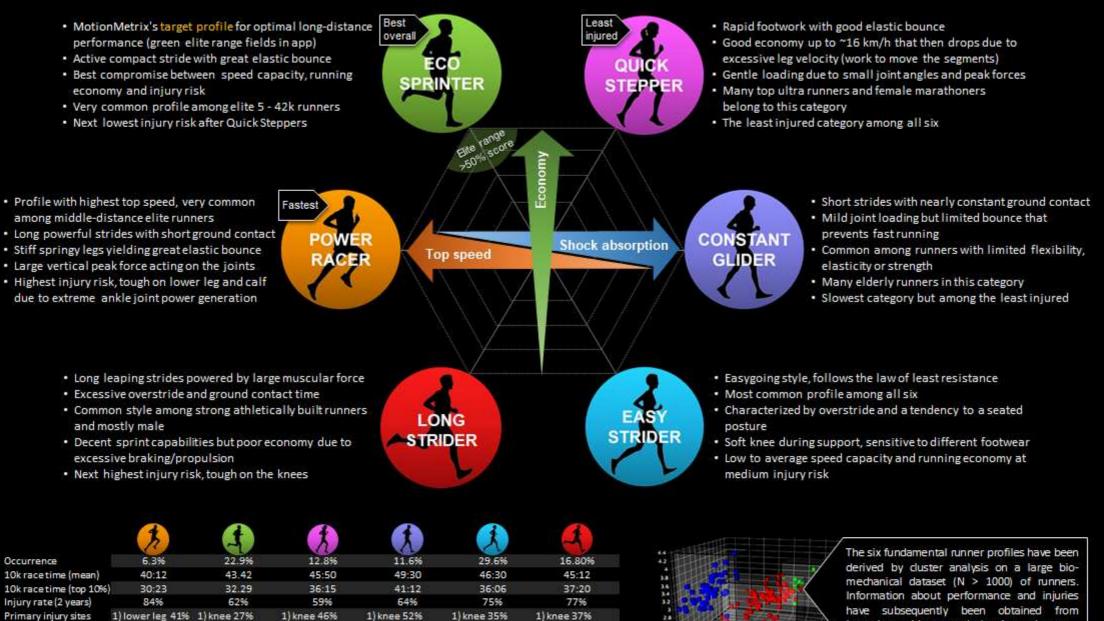






Quick Reference Guide – Runner Profiles

MotionMetrix.



hamstrings 17% hip 15% 10%/90%

65%/35%

Injury rate (2 years)	84%	62%	59%	64%	75%
(100 (1993) 450 (1557) 755 (1558) 	1) lower leg 41%	1) knee 27%	1) knee 46%	1) knee 52%	1) knee 35% 1)
	2) calf 28%	2) foot 21%	2) lower leg 24%	2) lower leg 21%	2) achilles 17% 2)
	3) knee 22%	3) lower leg 15%	3) calf 23%	3) achilles 17%	3) hamstrings 16% 3)
Shoe pref. (light/stable)	7596/2596	63%/37%	55%/45%	30%/70%	15%/85%

39%/61%

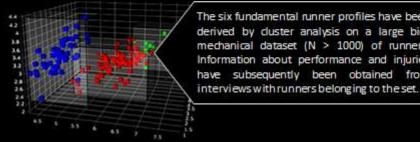
31%/69%

61%/39%

44%/56%

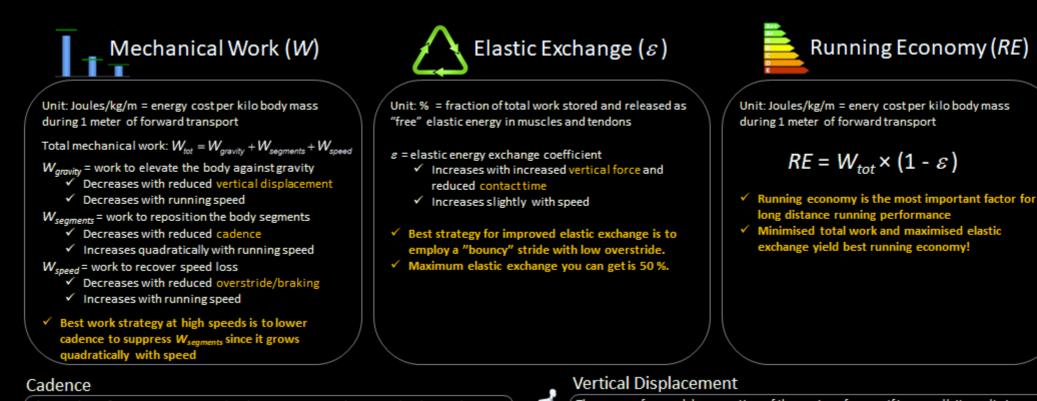
Distr (men/women)

55%/45%



Quick Reference Guide – Running Parameters

MotionMetrix.



The number of steps per minute. Take shorter steps to reduce joint loading and prevent injuries. Take longer steps (without overstriding) to improve economy at higher speeds as it reduces W_{seaments}. Tall (short) runners have lower (higher) optimal cadence.

Contact Time



The time each foot spends in contact with the ground. Make this time as short as possible for best running economy. Contact time can be improved by running drills and similar exercises that promote the elastic response from muscles and tendons.

Forward Lean

The forward lean angle of the trunk relative the vertical axis. A forward lean of 2-5 degrees is optimal. Smaller angles increases braking and larger angles obstruct elastic energy storage in the core muscles.

Overstride



The horizontal distance between the center-of-mass and the ankle when the foot strikes the ground. Excessive distance is called overstride and it causes increased braking and prolonged contact times, both detrimental for running economy.



The range of up and down motion of the center-of-mass. If too small, it results in poor

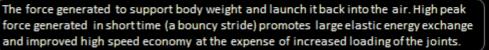
force generation and reduced elastic exchange. If too large, it amplifies Waravity, the work done against gravity, and puts higher loads on the joints.

Braking Force



The amount of braking on the center-of-mass during the initial contact phase. Large braking forces cause greater loss of speed and increases W_{speed}, the work needed to recover speed during propulsion. Overstride contributes to increased braking force.

Vertical Force

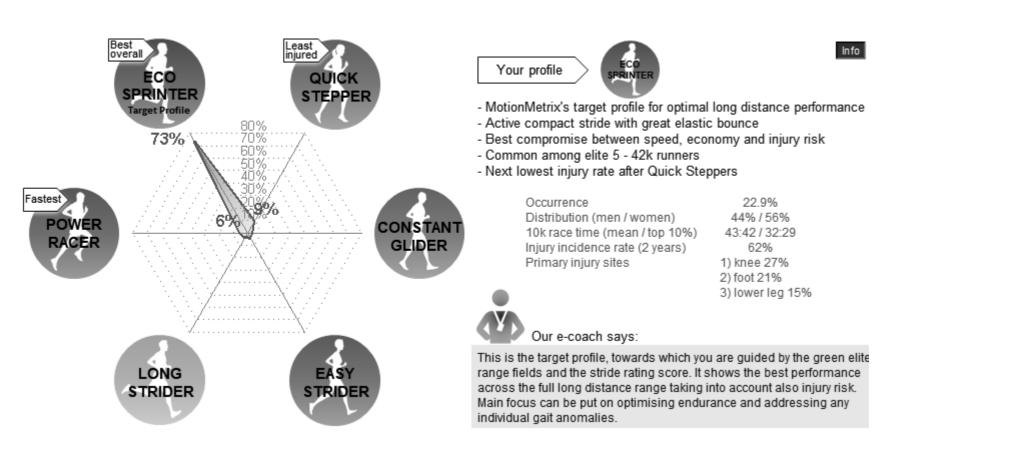


Lateral Force

The force acting sideways on the center-of-mass during ground contact. Large lateral force is associated with broad step width and large side-to-side motion, which makes you travel longer distance than necessary and increases lateral joint loading.

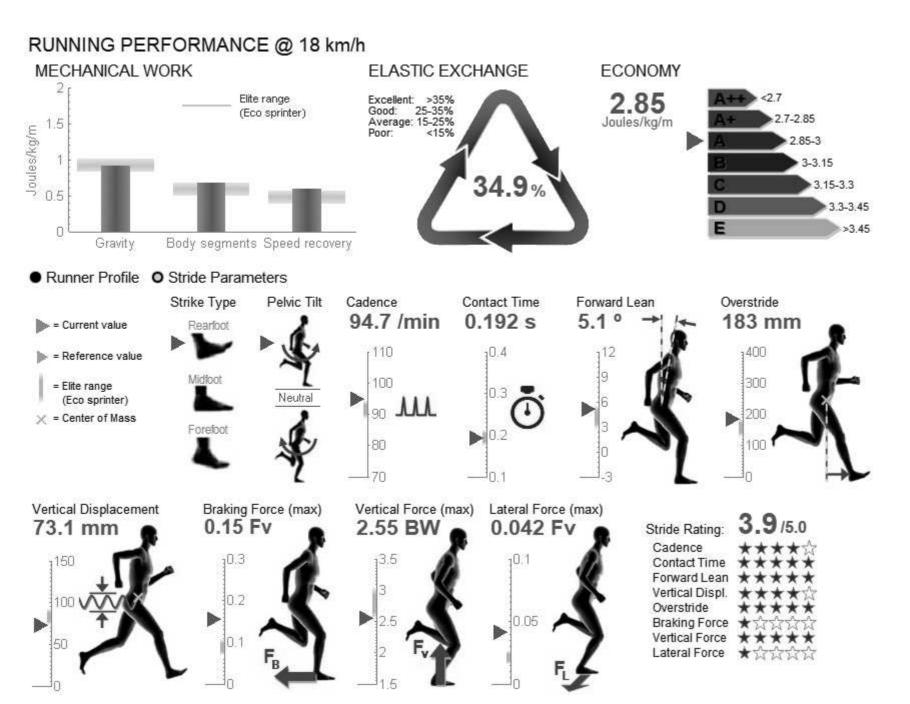
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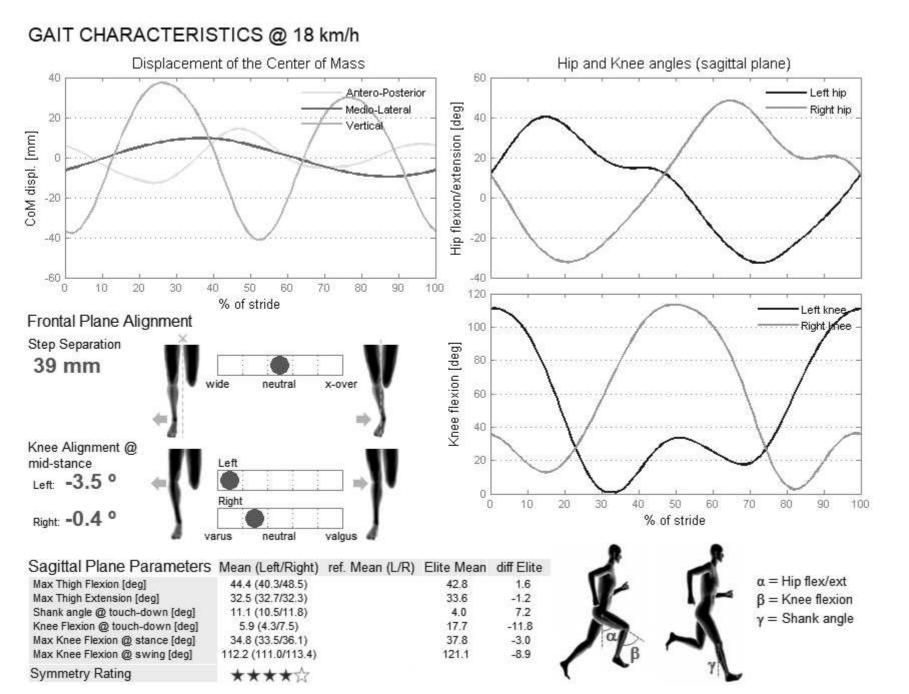


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MotionMetrix.



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