

Maattanen

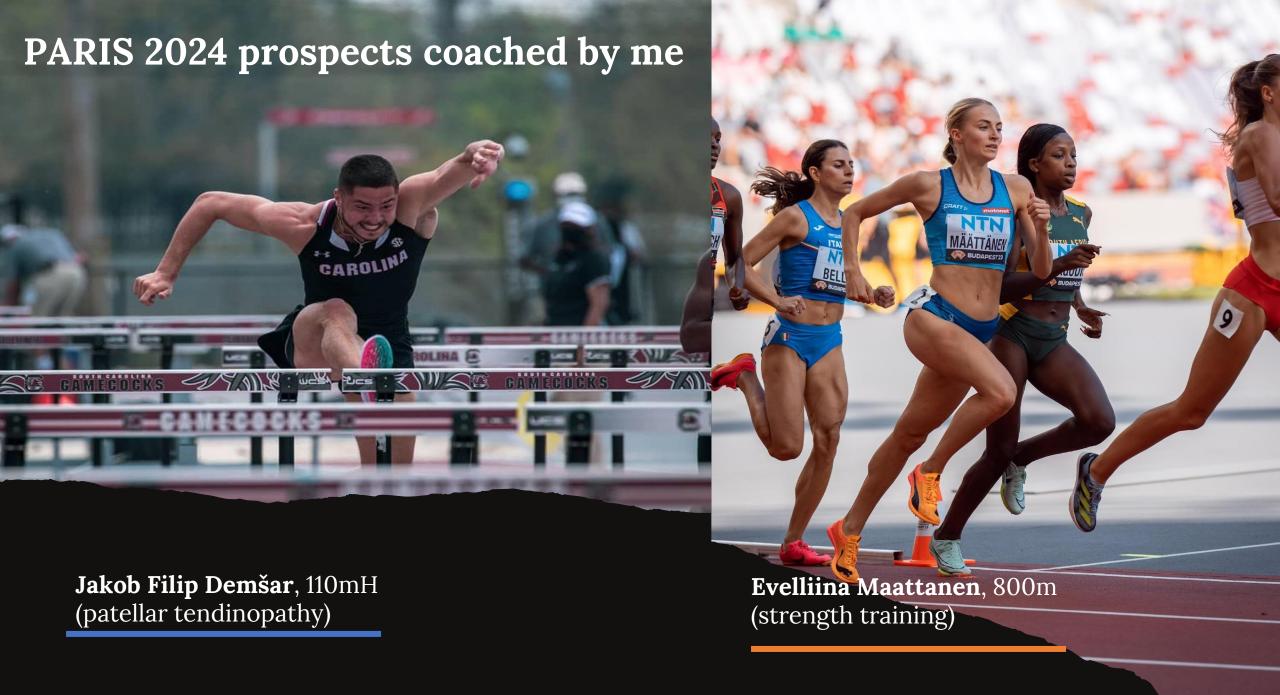
Borut Rebolj, MSc





Borut Rebolj

- MSc, Faculty of Sport, University of Ljubljana
- Ljubljana
 "Overuse shoulder injuries in handball"
- Injury treatment (knee, low back pain, muscle strains)
- Strength and condition training (basketball, football, tennis, skiing, figure skating, athletics)





Jan Klobučar, volleyball (torn ACL)

Neja Kršinar, marathon strength training

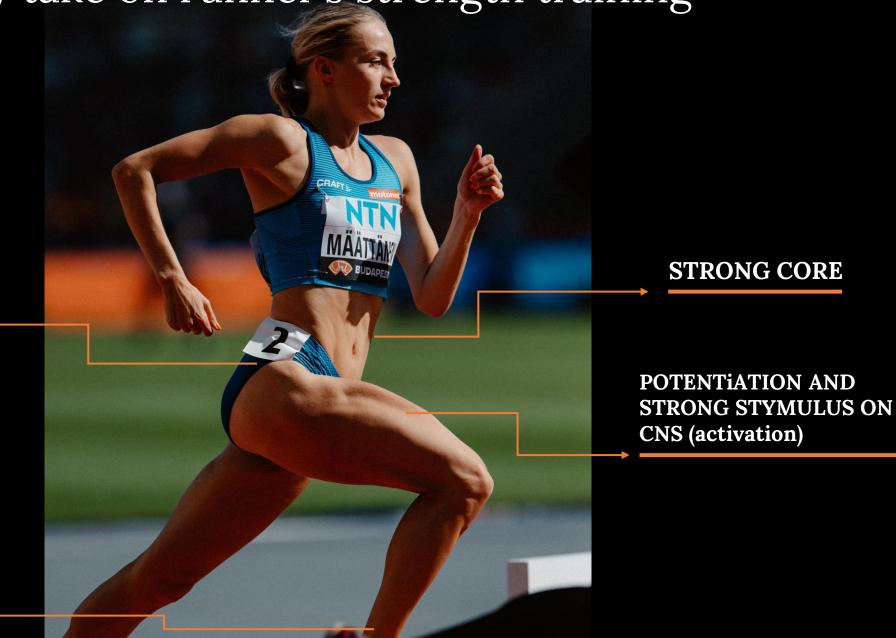
1:46.93 2016 Collaborating with Jan Petrač 1:46.96 • Žan Rudolf (NR, 1:45.15-800m) 1:46.97 • Beginning in March 2021 1:47.07 • Basic of strength training PORT • Plyometrics, speed strength and semi-maximal strength training



My training philosophy

- | | METHODS OVER EVERYTHING
- $| \rangle \rangle \rangle$ Exercises that are proven
- | Progression of exercises through the season
- ⟨ ⟩ ⟩ Sports specifics exercises??

My take on runner's strength training



STIFF TENDONS

MOBILE AND

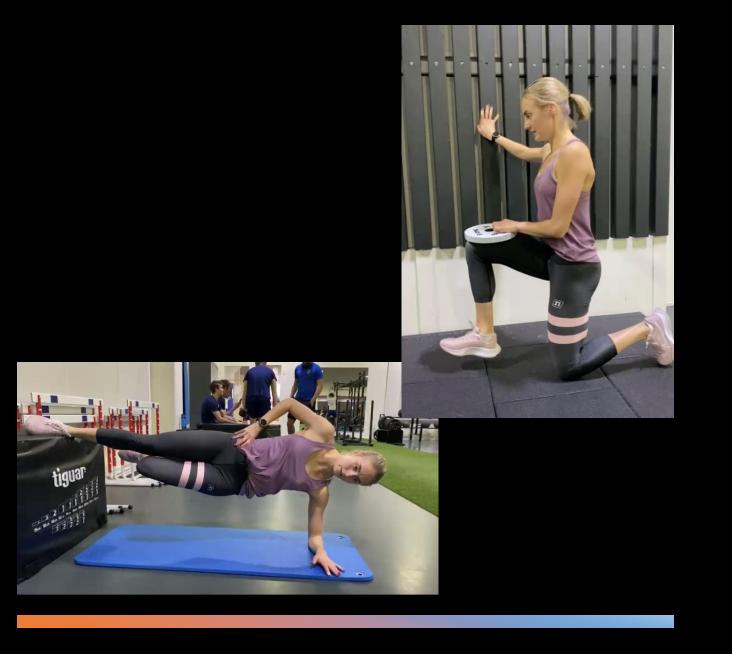
STRONG HIPS

Complementary exercises

>>> Core strength

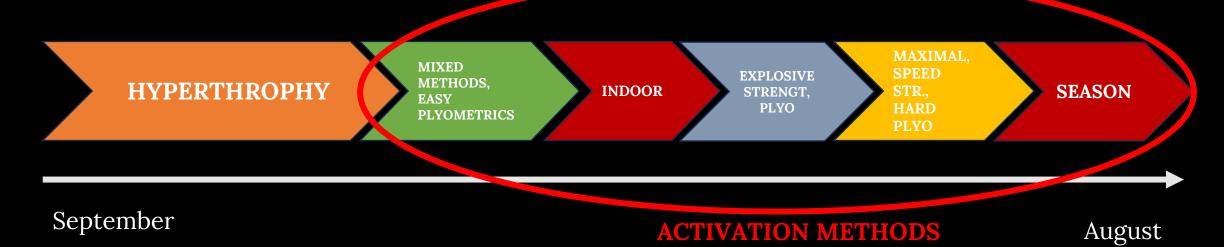
>>> Hip exercises

>>> Upper body



Types of (strength) periodizations

- Linear model (mostly used in preparation period in 2021 and 2022)
- One strength method at the time
- Specifics of athletics off season period



Preparation period autumn 2021- summer 2022

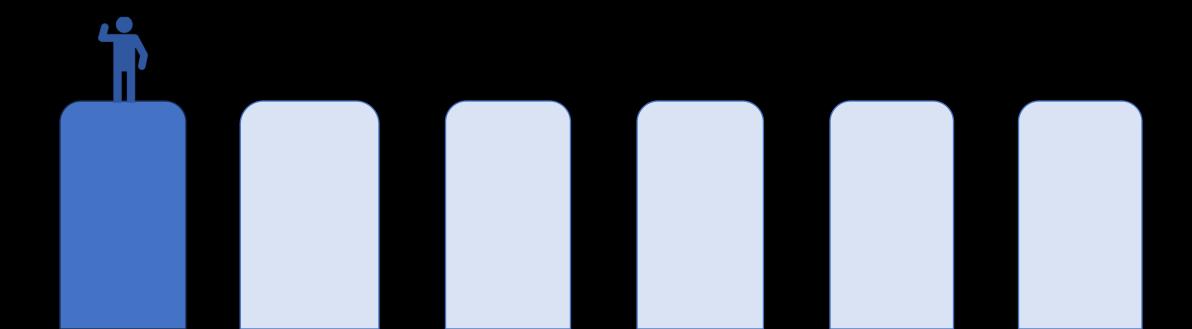
- Hamstring injury
- 2 years without competition
- New team



First block: September-December 2021

- Treat hamstring injury
- Set a strong foundation of basic strength training

- 5 weeks of "introduction training", 10 weeks hard
- 2 times per week (whole preparation period)











Massage and rest = rehab

Treating the hamstring injury

Train around the pain (load the posterior chain)







>>> Implementing deadlift and hip thrust in the program.

>>> Isolation of hamstring muscle and eccentric load at the end.

Strength foundation

- \>> Methods of hypertrophy training
- >>> Strengthen the muscle fibers and muscle and tendons junctions

| INJURY PREVENTION

- \>> Minimal muscle mass gains
- | | Fast strength gains, due to low levels of strength







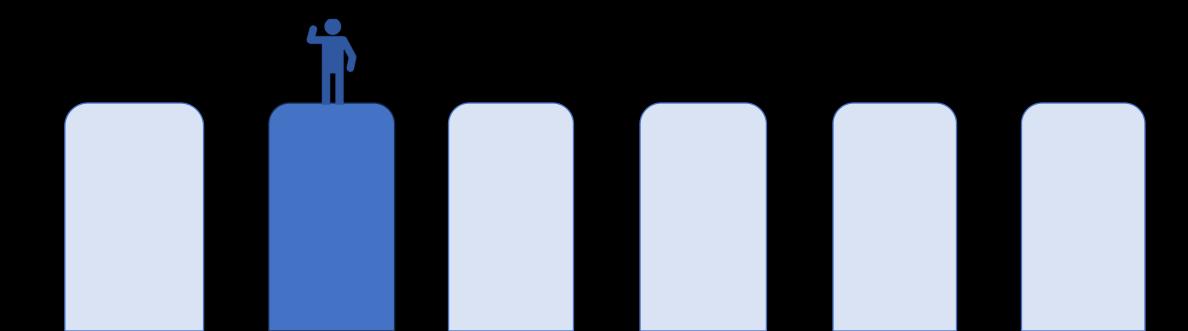
Exercises and method

3-4 sets, 8-15 reps, 40-60% 1RM, slow and controlled movement, burn at the end

Second block: December 2021-January 2022

- Indoor season (low-mid importance)
- Start of (low load) jumping

- Increasing the intensity and methods of weight lifting
- Exercises are logically progressed from previous block



Low intensity pogo jumps (tendon stiffness), 15 reps, 70% max

>>> CMJ on the box (soft landing)







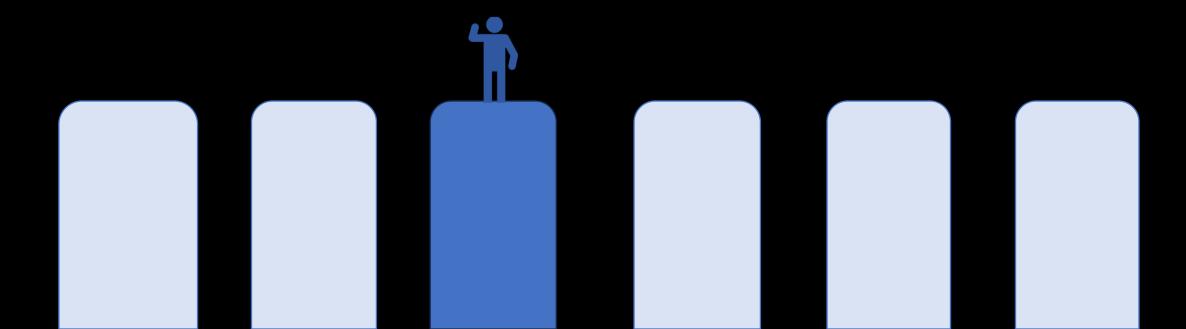
"Mixed methods", 5,6-8 reps, quite fast, around 75% 1RM





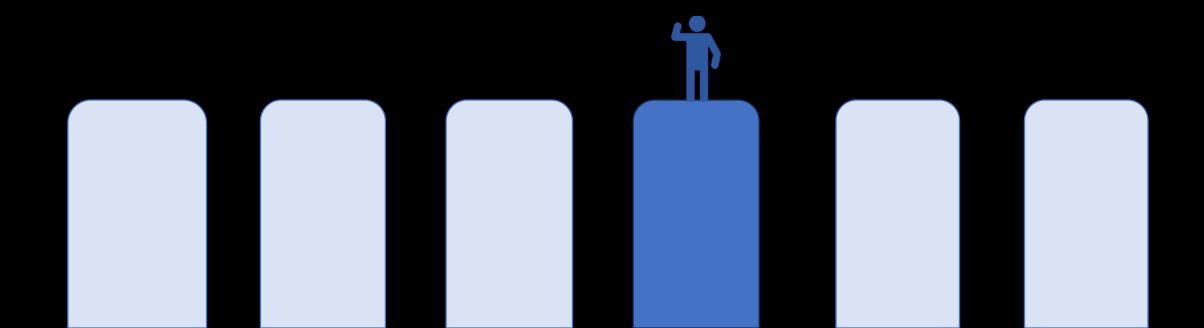
Third block: Indoor season

- Trying to maintain strength
- Activation before the races
- Volume is reduced by 30%
- 2:06.78 (800m)



Fourth block: March-April

- Improving explosive strength
- Start with high intensity plyometrics
- "Building a base" of strength training before the summer



- Activation methods: explosive strength, 85-90% 1RM, 4-6 reps, 4 sets, maximal speed and effort
- Accelerate at the start of the movement not at the end
- Slightly bigger volume

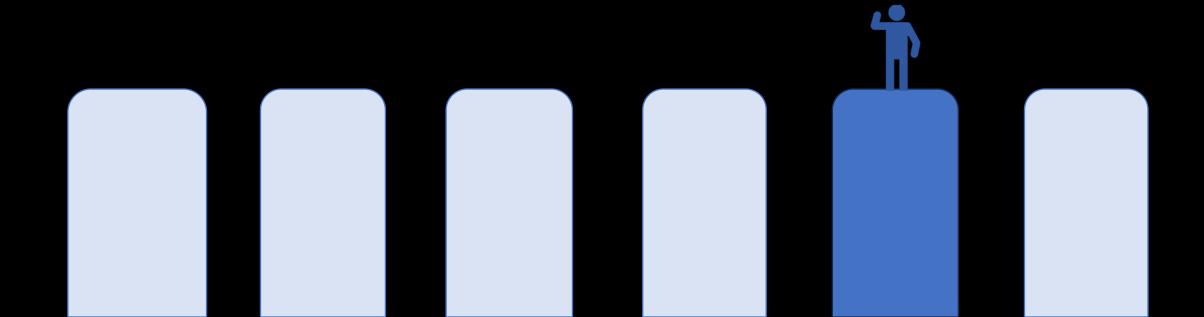






Fifth block: May- June

- Maximal strength
- Progression of plyometrics
- Speed strength.



(Very) hard plyo, weighed CMJ, and drop pogo jumps, maximal effort, 4-6 jumps, 3 sets

Smaller volume, maximal intensity











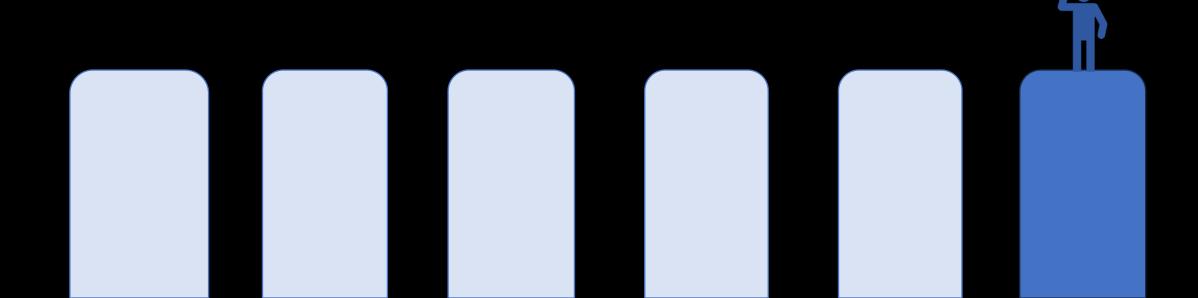
• Speed strength (as contrast training); low weights, very high speed, improving elasticity in whole kinetic chain, 50% 1RM, 6 reps, 3 sets





Sixth block: Main season

- Maintenance of strength as much
- 2:01.14 (800m)
- *Difficulties of planning due to WC



Preparation period 2022-2023

Very similar as the year before.

Easier to plan.

Focus on improving explosive strength.

- >>> 2022-2:01.14 2023-1:59.81
- Around 5-10% increase in strength
- >>> Little to no changes in selection of the exercises
- >>> Faster flying 20m and higher CMJ



Road to PARIS 2024

- More aggressive approach than previous years
- Activation and plyometrics training a lot sooner
- Exercises stay mostly the same



September

August

On-line collaboration

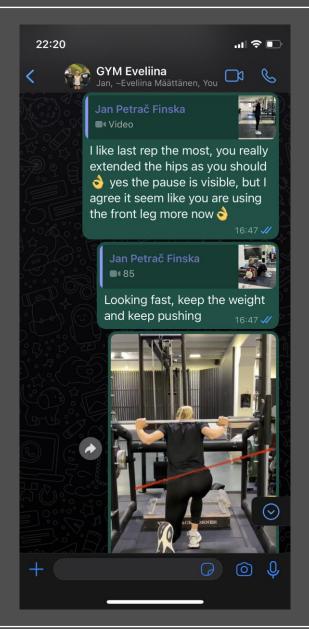




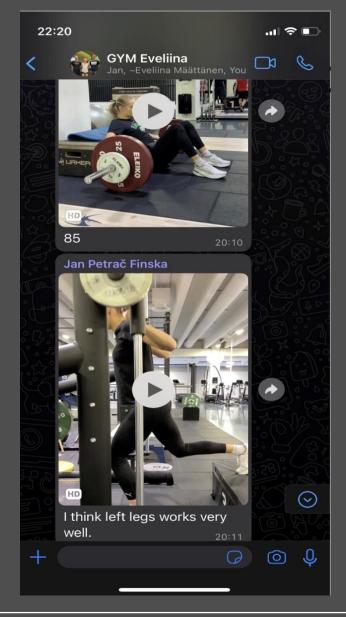


TRADITIONAL MEETING EVERY SEPTEMBER

VIDEO OF EXERCISES AND VIDEO FEEDBACK TRUST AND OPEN
DIALOG

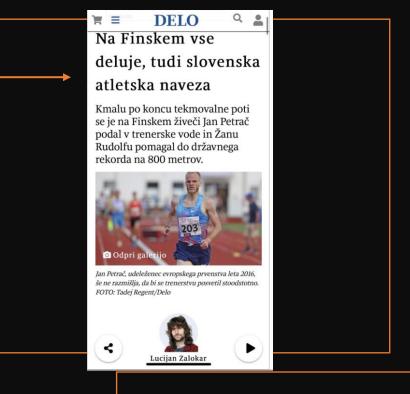


Examples of on-line collaboration



"Everything works in Finland,———including Slovenian running team."

"Between us there is a 100% trust. Complete strength program is in Borut's hands, I just mark the days in a week's program, devoted to the gym. Why would I interfere with that, if that is Borut's expertise. Of course, we discuss it, but main decisions is on him."



»Med nami vlada stoodstotno zaupanje. Ko pripravim tedenski urnik treningov, samo označim, kdaj je na sporedu fitnes. Preostalo prepustim Borutu. Seveda sva na zvezi, a spet ne preveč: kaj mu bom jaz predaval o fitnesu, če pa je strokovnjak za to področje?«

What would I change?



3 times per week, same volume



More lifting in competition period





Thank you for your attention.

Questions?



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Borut Rebolj



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