

### HIGH PERFORMANCE CONFERENCE

MADRID 2025



## Talent developmentbetween theory and realityCzech Athletic Federation case

Jan Koutník Head of the Youth Department Czech athletic Federation

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### What can a small country offer?



**Provide Comparative** data and approach, maybe inspiration?

**Present a case of using centralized testing** as part of the system

Follow up on thoughts presented by ....





CZE Population 10.500.000 Registered athletes 86.000 (vs. football 350.000) Popularity top 3

Up to U12 25.000 U14 10.200 U16 9.300 U18 6.600 U20 3.500 U23 3.400 senior 27.000

Mostly track & field athletes Actively competing? 1/2 <image>

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### Small country – big dreams

- Trying to get the medals and Top 8
   Vs. Population gaps
- For CZE last 2 years successful in U18/U20
- Are we really successful?



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### *Was it "the system" or coincidence?* And how can we tell?

ECH U20 (2023)

#### Country Gold Silver Rank Bronze Total Germany 8 8 7 23 Sweden 2 5 2 0 7 Czechia 8 3 з 1 4

### Medals ECH U18 (2024)

Medals

Rank	Country	Gold	Silver	Bronze	Total
1	Italy	7	3	5	15
2	Poland	4	3	1	8
3	Czechia	4	3	0	7

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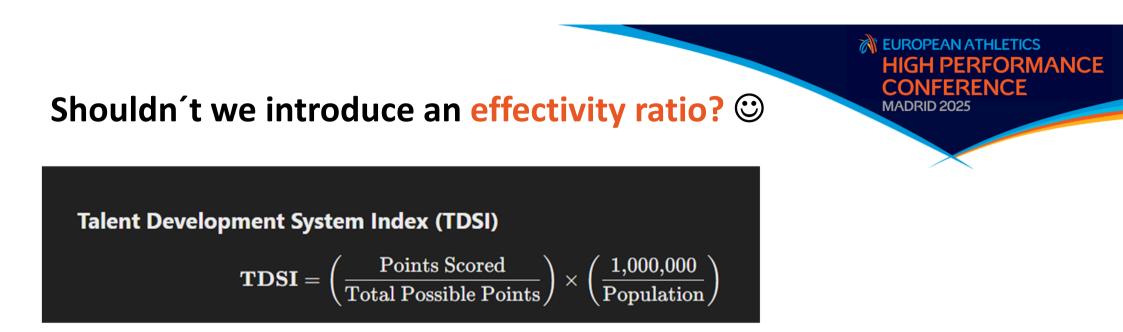


Medals clearly are not the best and only variable for evaluating the talent system

	EUROPEAN ATHLETICS U20				HIGH PERFORMAN CONFERENCE MADRID 2025	
EUCH U20 (2023) Jerusalem	CHAMPIONSHIPS Jerusalem 2023					
Country	Points	<b>Placing Rank</b>	Population (mil)	Points per 1mil	TDSI	
Germany	231	1	84,0	2,8	2,98	
Italy	112	2	59,1	1,9	2,05	
Great Britain & N.I.	110	3	69,5	1,6	1,71	
Poland	88	4	38,1	2,3	2,50	
France	88	5	66,6	1,3	1,43	
Sweden	82	6	10,6	7,7	8,37	
Czechia	80	7	10,6	7,5	8,17	
Spain	75	8	47,8	1,6	1,70	
Switzerland	73	9	8,9	8,2	8,88	
Neatherlands	64	10	18,3	3,5	3,78	
Hungary	63	11	9,6	6,6	7,10	
Türkiye	55	12	87,6	0,6	0,68	
Finland	47	13	5,6	8,4	9,08	
Serbia	47	14	6,6	7,1	7,71	
Ukraine	44	15	38,9	1,1	1,22	

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WCH U20 (2024) Lima	WORLD ATHLETICS U20 CHAMPIONSHIPS LIMA 24				MADRID 2025
Country	Points	Placing Rank	Population (mil)	Points per 1mil	TDSI
UNITED STATES	170	1	347,2	0,5	0,73
AUSTRALIA	141	2	26,9	5,2	7,77
PR OF CHINA	111	3	1416	0,1	0,12
ΕΤΗΙΟΡΙΑ	94	4	135,4	0,7	1,03
KENYA	78	5	57,5	1,4	2,01
SOUTH AFRICA	70	6	64,7	1,1	1,60
GERMANY	66	7	84	0,8	1,16
JAMAICA	59	8	2,8	21,1	31,22
GREAT BRITAIN & N.I.	55	9	69,5	0,8	1,17
JAPAN	54	10	123,1	0,4	0,65
POLAND	53	11	38,1	1,4	2,06
CZECHIA	49	12	10,6	4,6	6,85
FRANCE	38	13	66,6	0,6	0,85
UGANDA	38	13	51,3	0,7	1,10
ITALY	33	15	59,1	0,6	0,83

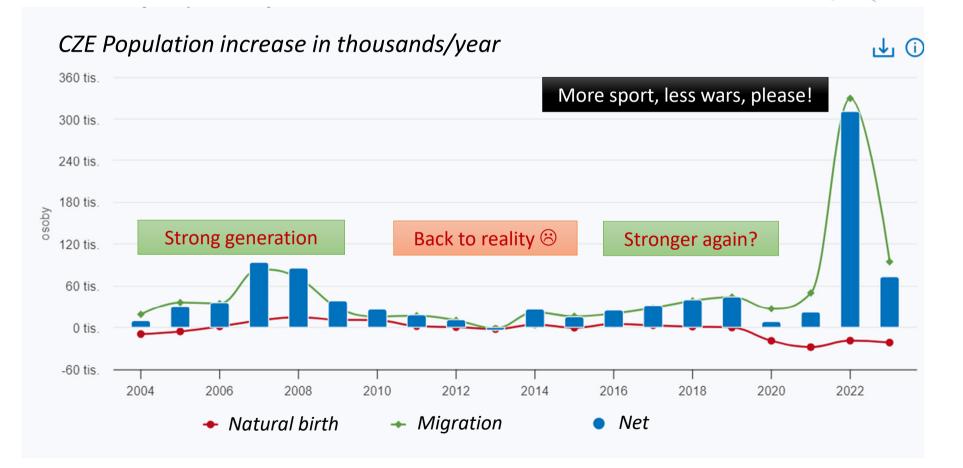


How can we compare Nations and talent programs efficiency? Population **not the only factor** however significant. Which other factors would you include?

How else can we know how well we are working?

### **Demographics**

### The most powerfull variable?



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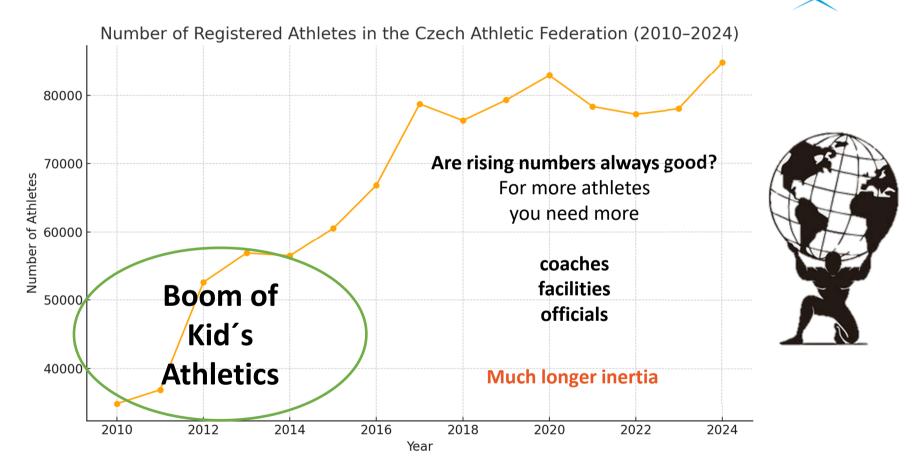
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### Specific athletic demographics

### Harnessing the "kids athletics"



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### How much did the system contribute to a certain result?



### *Counting the contribution?*

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System	60 %	10 %	30 %	30 %
Non-system	10 %	40 %	10 %	20 %
Talent	30 %	50 %	60 %	50 %

#### Non-negotiable:

family support 100 % They need to work really hard to get and stay at elite level in the future.

#### What would you count as THE SYSTEM?

State/federation: paid coach, financial support for the club/athlete/coach, sports school, medical team, methodics/testing, systemic club support (filling the white gaps on the map); coaches education; athlete monitoring; attracting enough childer...?

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### We invest a lot.

Is it worthy?

### Czech Athl. Fed. budget (aprox.) 250 mil CZK = 1 mil EUR

(200 mil state funding)

65 mil for Youth talent programs (including U23)



### Youth Budget 65 mil CZE = 2,6 mil EUR

U12

U16

1

+ Partners

Methodical /admin support Club Coaches

+ Major state subsidies for active children in the clubs



**Professional Coaches** (30x)

**Centralized** Regional and Events group camps

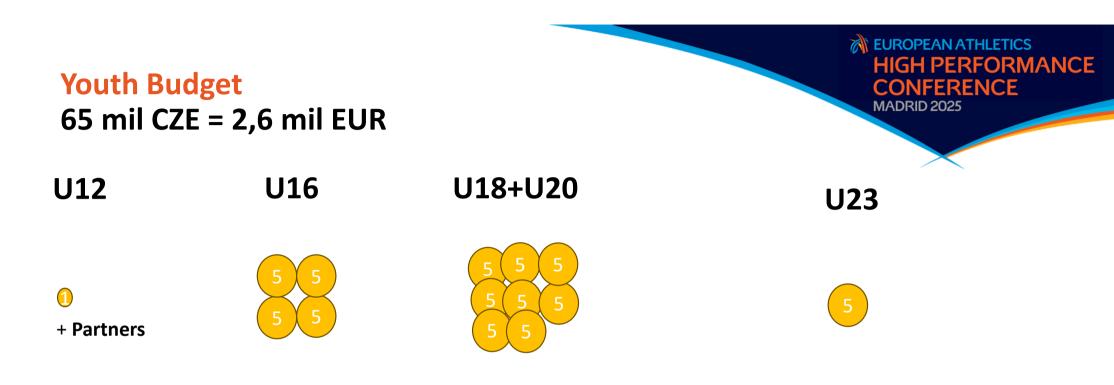
**Club** activity

U223

Professional Coaches

**Individualized support** 

+ top U23 10 federation funded cca 10 ministry funded



20.000+ no direct support **450 athletes** (100 top /350 basic)

40 basic funding10 top federation funded+ cca 10 top ministry funded

Money isn't the issue

### We try invest and try hard to find, keep and develop the talents

Still we lose a lot

**55 % top 8** in U16 **don't** do the sport in U23

(2023 data)



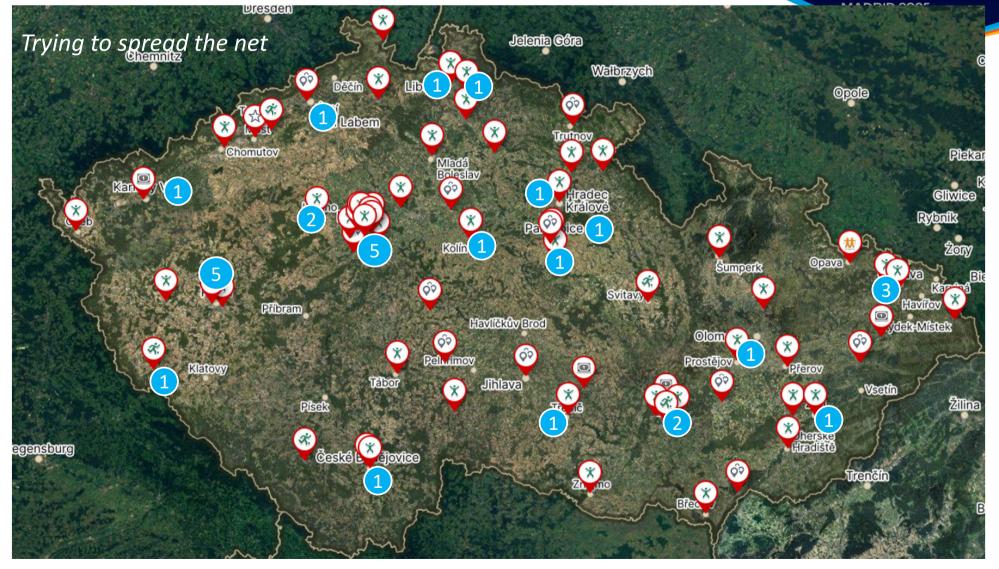
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### So what are the problems? Can we solve them?

### Talents don't consult the map!

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### What slows or stops the talents In the white gaps?

- Local bonds
- Changing schools
- Not good club
- No coach
- No facility
- No good coach
- Daily traveling

### • Example

1,5-2 hours traveling 5x week = 7,5 – 10 hours

Cca 5 less hours of sport movement per week x 50 weeks = 250 per year



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CZECHIA

### The talent pool is changing

### Child obesity in CZE

overweight

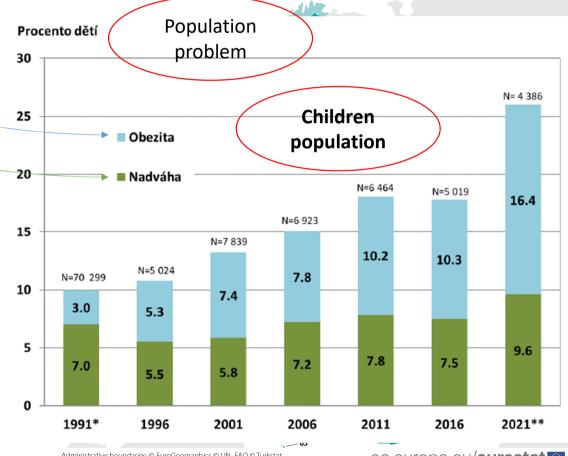
- + Poor physical education + Poor lifestyle
- + A lot of distractions

### Decreasing fittness, sports skills, motivation

*Track and Field Clubs should't be basic PE clubs* 

#### **Overweight population (BMI≥25)**

% of adult population, 2019



Administrative boundaries: © EuroGeographics © UN–FAO © Turkstat Cartography: Eurostat – IMAGE, 7/2021 ec.europa.eu/eurostat

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### Lack of good coaches

For the thousands of kids



### **Paid ≠ Professional**

The efficiency of some state/federation/school paid coaches is debatable

All levels

### our sport is **based on hobby coaches**/big respect/

### Coaches we need

### well experienced

(identify the level of maturity, know ways to adjust, path to top athletics, needs at certain level)

### wel educated

(events, methods, planning, movement, injury prevention, nutrition ...)

### enough time

(planning, individualization, analysis, comunnication; training camps) *Limited range of athletic experience* (usualy max. national)

Basic coaches education, language gaps ∅, not willing to educate more...

*Time limited due to employment* 





### Individualization?

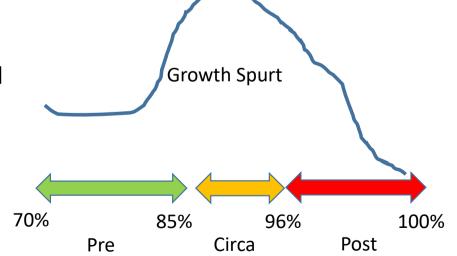
Almost impossible to U16

Even if you are aware of the problem (different maturity level / needs) it is complicated to organize



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- Too crowded
- Space limited
- Time limited





### Lack of university sport

No sport scholarships **No excuses from the schedule** Insufficient dormitories Need to travel / move for majority



### The main reason for drop-out of U23 athletes

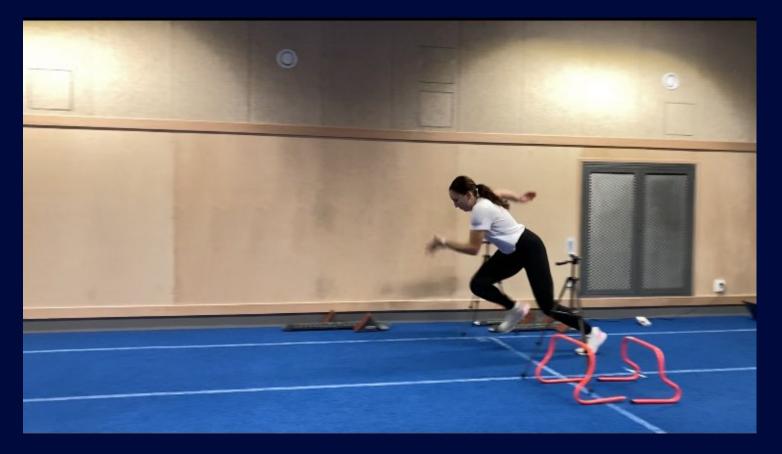
Lot of talents to USA...results?



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### One case of CZE trying to face some of the problems...



**Centralized testing camps** 

7-8 testing camps (several locations, indoor / corridor)
U18 and U20 selected in talent programs
440 athletes tested in 2024 (previous 300, 370, 400)
November (indoor)
Since 2021 (extended version)

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### **Obligatory for further support U18 and U20**

• November 24' = testing camp

### → 2025 talent program support

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### Support basic

- 1 or 2 regional camps
- Medical/physio support
- 1 testing camp



### Support "top"

- 1 foreign event camp
- 2-3 CZE event camps
- Medical/physio support
- 1 testing camp
- Additional testing/monitoring upon event group

### Physical testing was organized pre-2021

But wasn't very understandable for athletes and coaches 1 day camps

- 50m (20 acceleration + 30 fly)
- 10 bound jumping test
- Standing jump
- Overhead throw (front x back)



### Long waiting for results No added value...



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### **Extended format**



- 50m (20 acceleration + 30 fly)
- 10 bound jumping test
- Standing 3 jump
- Vertical jump + Drop jump (RSI)
- Overhead throw (front x back)
- 12 min run / Beep-test
- Basic gymnastics

### 1,5 - 2,5 day camp Results on-site

### Health prevention

#### Physiotherapist



- Kinesiological analysis *Physician*
- Laussane Q
- Trauma/Orthopedic Q
- RED-s (RST Q)
- Nutrition and Lifestyle
- Food diary (3 days)

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### Education athletes and coaches

- Results interpretation
- Specific sport (nutrition, rules, safeguarding, antidoping,
- Specific athletic education (gym, compensation exs., speed workshops...)

Goal Sport testing

**Physical testing** 



- 50m (20 acceleration + 30 fly)
- 10 bound jumping test
- Standing 3 jump
- Vertical jump + Drop jump (RSI)
- Overhead throw (front x back)
- 12 min run / Beep-test
- Basic gymnastics

**Reference values for each test** adjusted by age, gender and discipline = benchmarks EUROPEAN ATHLETICS HIGH PERFORMANCE CONFERENCE MADRID 2025

1. We want overall good sport basis and skills

2. We show to the athletes (and coaches) what are the qualities we look for in the youth regardless of discipline

3. You can identify

strenghts

weaknesses

comparisons (population, yourself, competition results)

### **Healt Prevention**



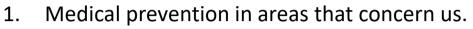
### **Prevention / Medical**

### Physiotherapist

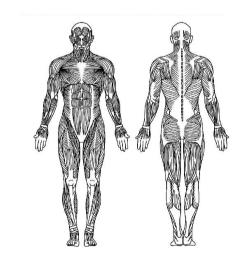
• Kinesiological analysis

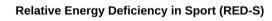
### Physician

- Trauma/Orthopedic Q
- Laussane Q
- RED-s (RST Q)
- Nutrition and Lifestyle
- Food diary (3 days)



- 2. Message take care of your athletic health seriously
- 3. Recommending follow up care
- 4. Searching and preventing more serious problems
- 5. Gathering population data



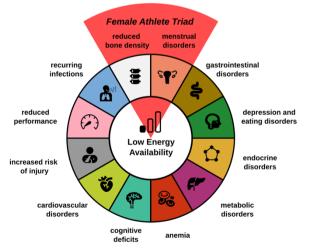


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### **Goal Education**

### **Athletes and coaches**

- Test Results interpretation
- Specific sport (nutrition, rules, safeguarding, antidoping,
- Specific athletic education (gym, compensation exs., speed workshops...)

- 1. Educating athletes about athletics
- 2. Connecting coach-athlete goals
- Get "PRO" info to the "hobby" coach

<image>

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### Complex testing U18 – U20

What are the goals?

### 1) Showing the way to the athletes

- What general skills they should have
- Lack of general fitness
- Health prevention
- Injury prevention
- Weak/strong spots identification
- Education



- What is the expected outcome of the youth
- Weak/strong spots of the their training plan
- Helping to deal



### 3) Gather population data

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- Performance / testing
- Health
- Motivation
- Kinesiology
- Nutrition...



### **Organization**

- Federation coaches briefing Unify protocols and measuring
- Medical team briefing
- Manual for athletes

### **On-site (30-60 athletes per camp)**

- Rotation 2 test groups, 1 physio, 1 ٠ medical/fed coach consultation
- Education, briefings...
- Give results

- **Questionairres** 14 days prior to the camp •
- Some physio prior to the camp •
- Physio on-line standardized form



- After
- **Results analysis**
- follow up decision and communication
- Publication •

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### Scoring portfolio

Personal "athletic" data

### Athletic performance data and points

Matěj Peffek -							
Pohlaví	м	M					
Věk	17						
Datum narození	02.08.2007						
Kategorie	Junior						
AO/AK	Spartak Praha 4						
Kraj	Pražský	Pražský					
Sekce	víceboje						
Disciplína	desetiboj						
I Run Clean	18.9.2024						
Tréninkový deník	ý deník TD - elektronický						
		Výko	onnost				
Hlavní disciplína	desetiboj						
РВ	6894						
MČR umístění	2	3					
Tabulkové umístění	2 3						
Reprezentace v posledním roce ano		1					
Limit	reprezentace	3					
Kombinace limitů z více sekcí	ano	3					

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### Scoring portfolio

Medical / Physio results

*Physical tests results, points and reference benchmarks (age, event, gender adjust)* 

**Overall** scoring

	MADRI				PERENCE	
		Zdravotn	í anamnéza			
Ortopedický dotazník	v pořádku					
Kineziologie	v pořádku	3				
Lausannský dotazník	v pořádku	3				
Nutrice	v pořádku	3				
RST dotazník (RED-s)						
	Testování			Re	ferenční hodn	oty
Test Výkon Body			Hodnocení	Průměrně	Dobře	Výborně
20 m PVS	3,05	0	nedostatečně	3,04	2,93	2,81
30 m Letmo	3,14	2	dobře	3,4	3,26	3,12
Desetiskok	29,88	1	průměrně	28,33	30,01	31,7
Trojskok z místa LPL	8,48	2	dobře	7,97	8,45	8,93
Trojskok z místa PLP	8,63	2	dobře	7,97	8,45	8,93
Vertikální výskok	43,4	0	nedostatečně	44,5	49	54
Výskok po amortizaci z 30 cm	33,0	0	nedostatečně	35	41	46
Index reaktivní síly (RSI)	2,19	1	průměrně	2	2,35	2,7
Skok z místa	262	0	nedostatečně	263	278	293
Autový hod	13,43	1	průměrně	13,15	14,87	16,58
Koule vzad	14,70	0	nedostatečně	15,32	17,14	18,96
12 minutovka		0		3027	3224	3422
Beep test	11,08	0	nedostatečně	11,3	12,49	13,68
Stojka	1	3	výborně			
Kotoul vpřed	1	3	výborně			
Kotoul vzad	1	3	výborně			
Manuk	1	3	výborně			
Součet bodů		46				

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### Aftercare

- Test results can make a difference for support
  - Good results top support
- Very specific comparative info on the athlete's level
- Communication chanell
  - Early future university planning!
- Reference point for future training and support
  - 4 year tracking cycle in the system
- Data Analysis and Publication



Analýza testovacích srazů SCM 2022



Český atletický svaz Jan Koutník a Dominik Kolinger 31. 3. 2023

### What is the cost?

- 110-120 EUR per athlete (with travel, accomodation, paying the coachesmedical crew),
- not including the wage of federation coaches
- About 2 % of total "youth" budget
- Some work
- Quite cost-effective

# 

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### Lot of added values

### What matters the most?

a) Transfer to the senior top athleticsb) Transfer to all level senior athletics = vital for the sport

Small nation Big dreams Similar problems Searching for solutions

Thank you!

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