

OpenTrack



Bringing technological solutions
to athletics at every level

OpenTrack

OpenTrack is a new company that aims to make technology accessible in athletics, improving experiences for competitors, officials and spectators alike. We ourselves are runners, and want to see the sport benefit from leaps forward in IT, even at a grass-roots level.

We know that hard-working race officials should be spending their time on the track, and not at a computer for weeks on end, dealing with entries, start lists and results. Similarly, today's competitors don't want to have to wait around for results, or have to crowd around a wall to see the post-its.

Though we are a young organisation, we have proven success in the field. So far, we have dealt with the entries, programmes and general clutter that goes with a County Athletics Championships for 6 counties with more than 3,000 athletes. OpenTrack covers all athletics, so we have also provided the technology for running and recording the Surrey Cross Country League – probably one of the premier cross-country league in the UK. Our highest profile competition so far has been the exhilarating Night of the 10,000m PB's, where OpenTrack not only covered the entries and seedings, but also generated the start-lists for the programme, and most importantly, the near-instant online results. Additionally, OpenTrack provides the technology for the Estonian Athletics Federation.

OpenTrack is a subsidiary of [ReportLab](#), which has been building and managing web solutions for demanding corporate clients for 17 years, and are a global leader in on-demand generating of complex documents.

We are delighted to be able to present the services we can offer to race organisers and club/federation officials. OpenTrack offers an increasingly comprehensive set of event management services:

1. The basic race entry service in which OpenTrack takes the card payments for you, and presents a simple computerised feed of the entries.
2. The more comprehensive competition management system, already favoured by several counties for their athletics championships.

On the results we can either:

1. Simply calculate results from your recordings, or;
2. Provide a service to take times and positions on your mobile phones, or;
3. Automatically upload photo-finish times from FinishLynx, which allows for rapid presentation of results at championships and open meetings.

Finally, we show a few screens presenting our most complex offering of a full Athletics Federation Management package. This provides an umbrella system, with membership management and national championship event set up in addition to the previous components.

We are constantly improving our systems and adding features. Check out our website www.opentrack.run for our updates.

A document like this can only give you a feel for our systems. If you would like us to help with any athletic events, please get in contact, and we can arrange demonstrations.

Andy + Andy

(andyw@reportlab.com + andy@reportlab.com)

Taking Entries

Declaration sheet for Seniors/J

Club: Reigate Priory AC

Please ensure that all non-scorers are marked N/S below 'X' on their back when racing.

No.	Name	U20/U23/M40/ M50/M60	No.
805	Alister Moses	51	
806	Joel Gleave	54	
807	Melinda Wadman	U50	
808	Jay Shanks	U40	
809	Ian Park	U50	
810	Gavin Lawrence	U40	
811	Paul Walters	U50	
812	Andrew Clark	U40	
813	Tom...	U60	

Figure 1: The Entries we all fear

OPENTRACK ENTRIES

Surrey County AA Track & Field Championships

13-14 May 2017, Kingsmeadow Stadium, Kingston Contact tf@scaentries.uk for help

943 people have entered 1487 events online

Entries closed

Full list of who's entered (one row per event)

Bib	Heat	Name	Club	M/F	Age Group	Event entered	Recent PB	Actions
21		Zepa, Ines	CRO	F	U17	100	12.9 10 ^s	<input checked="" type="checkbox"/>
21		Zepa, Ines	CRO	F	U17	200	28.0 10 ^s	<input checked="" type="checkbox"/>
111		Wylie, Charlie	DMV	M	SEN	800	1:54.34 10 ^s	<input checked="" type="checkbox"/>
100		Wyles, Ruby	GG	F	U17	1500	10 ^s	<input checked="" type="checkbox"/>
128		Wort, Zak	KACPH	M	U17	800	2:03 10 ^s	<input checked="" type="checkbox"/>
128		Wort, Zak	KACPH	M	U17	1500	4:12 10 ^s	<input checked="" type="checkbox"/>
78		Woolley, Hannah	AFD	F	U13	1500	5:24 10 ^s	<input checked="" type="checkbox"/>
53		Wood, Louise	GG	F	SEN	HJ	1.87 10 ^s	<input checked="" type="checkbox"/>

Figure 2: OpenTrack's modern solution

Taking entries

At the simplest level taking entries involves noting down athletes' details and taking a fee. Electronic entry taking solves countless problems. There is no dealing with cash or cheques – we can automatically check EA licences, automate different pricing levels for juniors, control age related entries, store expected times for seeding, and even manage merchandise sales.

In club fixtures such as league and relay events there is an additional workload on both the team captain and the race organizer. Once entries have been paid for, the team declaration giving the names of the athletes still has to be completed, and in the case of relays, so does the running order. This is where the much dreaded bits of paper shown in Figure 1 come in. The race organiser receives these and has to somehow make sense of them, hoping they can read the

hand writing, and praying the paper has not got soaked in the rain.

Our system streamlines the process, allowing the team managers to select their athletes and allocate numbers accordingly using their phone or other internet connected device up to the start of the event. Figure 2 shows a rather more modern solution to the problem.

Once the organiser has the events stored, then OpenTrack can allocate numbers, contact entrants, or simply dump the data into Excel. How you chose to use OpenTrack is highly flexible.

This is our simplest offering, if you know how to organise your race but want to avoid the hassle of dealing with payments and typing in names and events, this is your ideal solution. With minimal training, you can even set up your own events on our system.

Competition Management

Large and Complicated Meetings

For bigger and more complicated events, such as county athletics championships, the entries are only the start. Seeding lists, field cards and many other reports have to be produced across multiple age groups.

Once OpenTrack has taken your entries, we already have your competitors' details in our database. We can easily generate the bib-numbering for you, hassle-free. Once we also have your event timetable uploaded, (we are working on a grid upload for next year) we can even generate PDF files combining all this data. And even when the weather forces those rushed last minute changes, it still takes mere seconds to regenerate the updated reports.

To the right you can see the automatically generated Field Cards (figure 3) and Seeding Sheets (figure 4) that were used this May in Surrey. You can also choose to add branding to these cards.

Below you can see the options available to administrators. A popular innovation this year was individual numbers. Colour coding makes sure that no one is in the wrong age group, and clear event listings mean your athletes have no excuses left for missing their event. Using the pdf expertise, developed over the years with ReportLab we work with a digital printer to publish these, contact us for details.

Figure 3: Field Card

OPEN TRACK		Senior Mens Hammer Throw Sat 10:00										ReportLab			
DISTANCE SCORE CARD		Event No	F001	Time	Sat 10:00	CBP	Gareth A Cook 1989 - 66.28								
Meeting	Surrey County AA Track & Field Championships			Date	2017-05-13 <th>Venue</th> <td data-cs="5" data-kind="parent">Kingsmeadow Stadium, Kingston</td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <th data-cs="2" data-kind="parent"></th> <th data-kind="ghost"></th>	Venue	Kingsmeadow Stadium, Kingston								
Event	Senior Mens Hammer Throw			Start Time				Finish Time							
#	Bib	Name	Club	1st Trial	2nd Trial	3rd Trial	Best of 3 Trials	4th Trial	5th Trial	6th Trial	Best of all Trials	Final Position			
1	92	Steve Simmonds	KACPH	Metres	Metres	Metres	Metres	Metres	Metres	Metres	Metres				
2	50	Paul Derrien	SMRAC												
3	95	Rob Smith	WAL												
4	94	Chris Smale	SD												
5	45	Gareth Cook	KACPH												
6	57	Ian Frankish	EE												
7	98	Kyle Stevens	KACPH												
8															
9															
10															
11															
12															
13															
14															
15															
16															
RESULTS															
Place	No	Name	Club	Metres	Place	No	Name	Club	Metres	Judges					
1st					7th										
2nd					8th										
3rd					9th										
4th					10th										
5th					11th										
6th					12th						Field Referee				

Printed on 24 May 2017 11:13:26

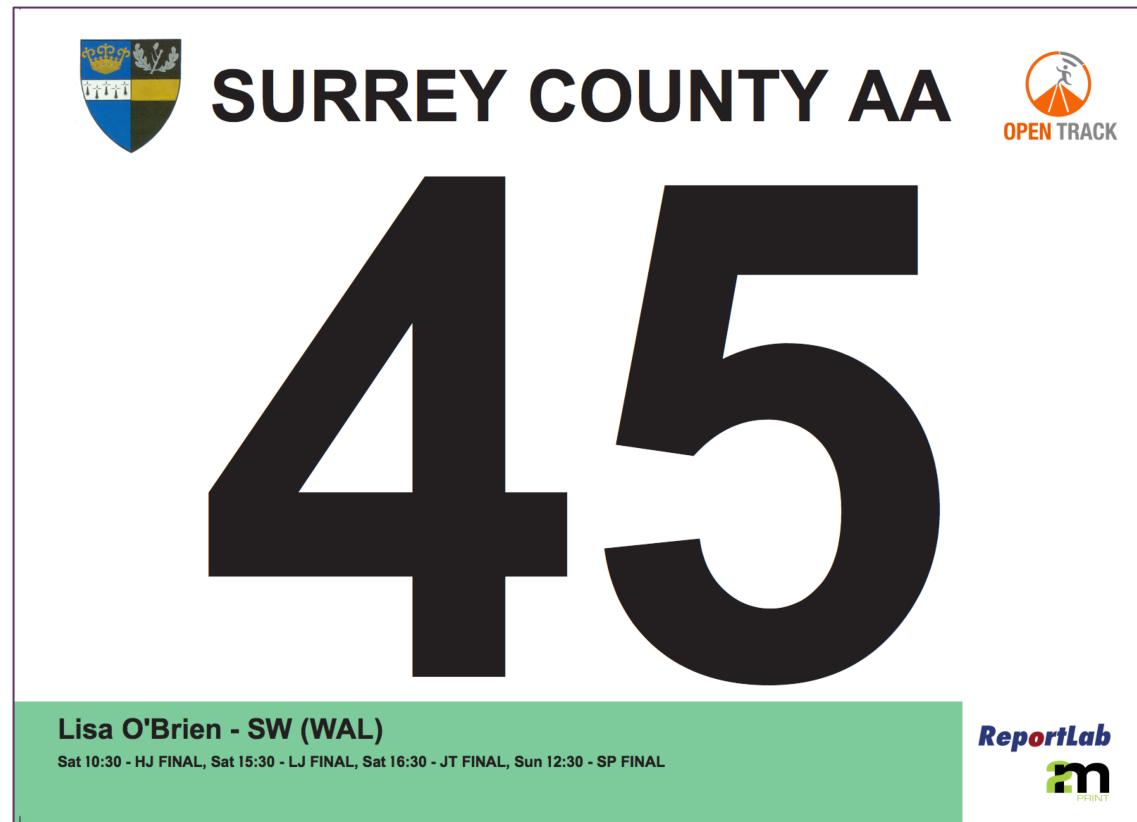
Figure 4: Seeding List

OPEN TRACK		Seeding Sheets		Rep					
T017: Senior Mens 5000m Sat 12:35									
(22 Athletes entered)									
Tick	Bib	Last Name / First Name	Club	Perf					
	66	Hoad, James	THH	14:51					
	93	Slemeck, Frederick	HW	14:53					
	100	Toomer, Benjamin	HW	14:58					
	87	Robinson, Alex	HW	15:00					
	65	Higgs, Tom	SLH	15:26					
	90	Sharp, Matthew	HW	15:29					
	55	Fitzpatrick, Sean	HHH	15:30					
	33	Auden, Ed	BEL	15:41					
	107	White, Kieran	HW	15:49					
	59	Goldsworthy, Simon	GG	15:50					
	102	Tuer, Robert	HW	15:56					
	82	Ollington, Richard	THH	16:00					
	79	McDaniel, Matt	GG	16:10					
	91	Shearring, Luke	HASB	16:15					
	52	Earl, Jonny	HW	16:22					
	70	Impey, Nick	RAN	16:43					

Administrators control panel

The screenshot shows the OpenTrack Administrators control panel for the Surrey County AA Track & Field Championships. The main title is "Surrey County AA Track & Field Championships" held from 13-14 May 2017 at Kingsmeadow Stadium, Kingston KT1 3PB. The interface includes sections for Event Management (Match Configuration, Staff entries, Download Reports), Emailing (2 total messages in list), Numbering (943 / 943 have numbers), Printables (Field Cards, Race numbers (bibs) - XC, Race numbers (bibs) - TF, Registration Sheets, Seeding Sheets, Athletes (A-Z), PDF programme), and FinishLynx (PPL (people), EVT (events)). The bottom of the screen shows a toolbar with various PDF files and a ReportLab logo.

Surrey County Race Number



Road and Cross Country Results

Once the entries have been taken and numbers allocated the athletes may think there is surprisingly little left for the organiser to do: simply start the race and record the finishing times or distances. Individual and team positions, and prizes, can all be worked out from these inputs. Race organisers know otherwise...

Traditionally timed results

All clubs have volunteers who have spent many years mastering the skills of funnel management, and recording the times and bib-numbers of finishers. In these events, timing is typically only accurate to within a second, although usually it is the position that matters more than precise times.

For these clubs, we make it simple to calculate and display the results. Using the data in our system from the entries, all we need are 2 columns of data showing bib-number and time. Paste these into our website (figure 5), and OpenTrack will automatically look up names, categories and teams from the entries list, and calculate team scores and prize winners live (figure 6).

We have experience of calculating team scores for the Men's and Women's Surrey Cross Country Leagues, with multiple divisions in one race and some of the most ferociously complicated second claim and team rules it is possible to imagine.

Figure 5: Results entry grid

Edit Finish Sequence		
Save finish sequence		
#	bib	elapsed_time
1	93	00:58:54
2	44	01:03:12
3	89	01:03:41
4	90	01:05:56
5	72	01:08:39
6	87	01:10:03
7	84	01:10:23
8	99	01:11:33
9	88	01:11:55
10	55	01:14:24
11	75	01:15:04
12	69	01:16:30
13	83	01:16:30
14	97	01:16:58
15	92	01:17:11
16	43	01:17:18
17	5	01:17:19
18	59	01:17:53
19	63	01:18:21
20	81	01:19:08
21	76	01:19:12

Figure 6: Results for presentation

Individual				
#	Bib	Name	Category	Team
1	93	Nick Marriage	M	Fulham Running Club
2	44	Martin White	M	West 4 Harriers
3	89	Leo Gabbie	M	Fulham Running Club
4	90	Lloyd Heritage	M	Fulham Running Club
5	72	Samantha Pickford	F	Wimbledon Windmilers
6	87	James Clark	M	Fulham Running Club
7	84	Gideon Shawyer	M	Clapham Chasers
8	99	Stephen McLeod	M	Fulham Running Club
9	88	Justin Bateman	M40	Fulham Running Club
10	55	Gina Edmonds	F	Fulham Running Club
11	75	Sydney Watlow	F	Fulham Running Club
12	69	Paplya De	F	Sheen Shufflers

Finish line electronic recording

OpenTrack also incorporates timing and recording tools, which have been tested at many different levels from the European Cross Country Championships to local club matches. We have had "officials" using it varying in age from 11 years old to 70. We believe that it should be possible to run a small or medium sized fixture with nothing but mobile phones to record the data. This system removes all need to transcribe data by hand, with all of its errors and delays and the problems of illegible handwriting become a thing of the past.

Once a fixture has been set up, the user can simply connect to a website and become an official. OpenTrack can be used almost anywhere: the only requirement is a 3g/4g signal or a local wifi signal at the track. Even if reception is lost midway through the fixture, results can still be entered and will be stored locally until the phone is back in an area of reception.

The timing feature (figure 7) is simple. The user hits the green button each time a runner crosses the line. Every few runners, they can also enter the bib number to simplify error checking.

Another team, at the end of the funnel, enters the bib numbers onto OpenTrack as the runners pass through. Everything is digital – there are no messy pieces of paper, and the results can be calculated instantly.

The bib numbers automatically link to the athletes and live provisional scores can be calculated (figure 8). Any system is only as good as the data that goes into it, so data should of course be checked and verified before being made official.

Figure 7: Timing App

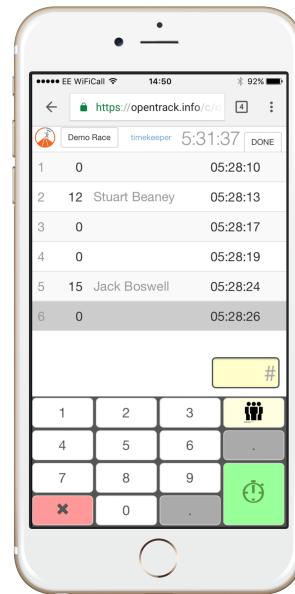
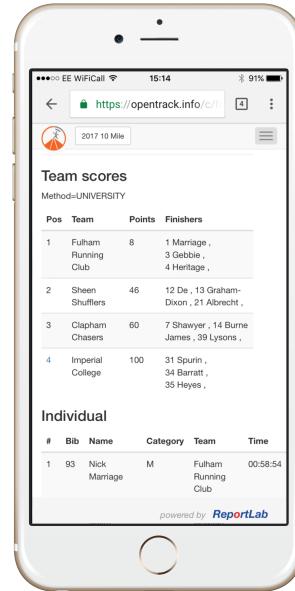
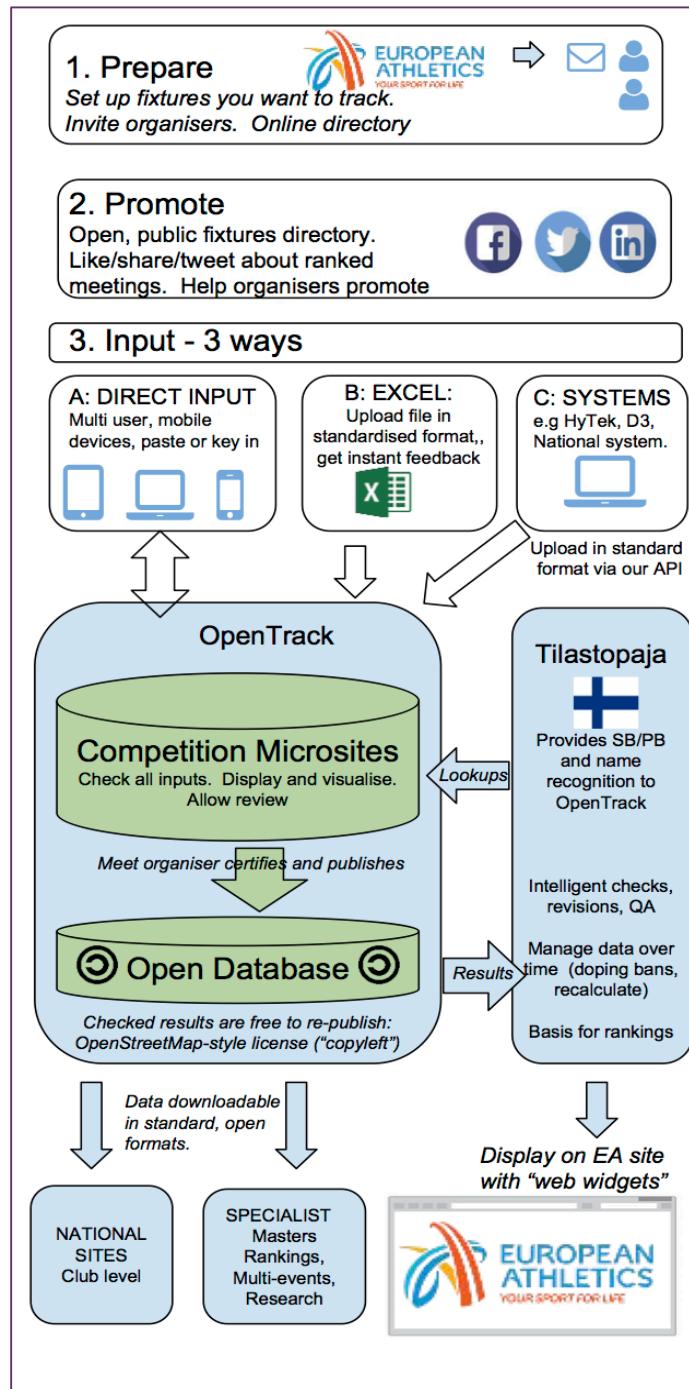


Figure 8: Results Display



Athletics Results

European Data Capture Project



We have been working with European Athletics on a project to ease the capture and transmission of athletics data.

The project allows the organisers of key events to upload results into a central database so EA can monitor and rank their top athletes.

Our work aims to produce a global data standard, so all data is transmitted in an established format, with methods to make transmission by Meeting Organisers simple. To this end, we have developed code that works with FinishLynx, the most widely used photo-finish system.

From our entries database, we produce the FinishLynx data files, and as soon as the results are approved they can be uploaded to OpenTrack on the spot. This was implemented successfully in the Night of the 10,000 PBs (figure 9)

Figure 9: Night of the 10,000 PB's

OPENTRACK ENTRIES

Entries | Night of the 10,000 | Event: T8 | About

Results for Men's GB Trials

May 20, 2015 - Video from Vinco

Completed / Official Results

Individual results (35 entered)

#	Bib	Name	Club	Age Group	Time	Note	
1	215	Vernon, Andrew	AFD	SM	28:21.15		
2	81	Griffiths, Dewi	SWAN	SM	28:31.88		
3	10	Barata, Samuel	BENFI	SM	28:40.19	PBI <input checked="" type="checkbox"/>	
4	182	Serrano, Ricardo	ESP	M35	28:46.38	PBI <input checked="" type="checkbox"/>	
5	33	Connor, Ben	DERBY	SM	28:46.45	PBI <input checked="" type="checkbox"/>	
6	214	Van Nunen, Bart	Pallas '67	NLD	SM	28:57.73	PBI <input checked="" type="checkbox"/>
7	209	Tsegay, Abel	IVEK	ERI	SM	28:59.63	PBI <input checked="" type="checkbox"/>
8	40	Cross, Ellis	USTMA	SM	29:00.49	PBI <input checked="" type="checkbox"/>	
9	24	Caldwell, Luke	UICL	SM	29:01.76		
10	177	Rush, Graham	CHECH	SM	29:04.52	PBI <input checked="" type="checkbox"/>	
11	99	Jones, Kristian	SWAN	SM	29:05.66	PBI <input checked="" type="checkbox"/>	
12	1	Aadan, Mohamud	TVH	SOM	SM	29:08.94	PBI <input checked="" type="checkbox"/>

We can also work on generating microsites for organisers who want to generate and display results rapidly.

National Federations/Organisations

At OpenTrack, we have experience of working directly with athletics organisations in most aspects of management and administration. Our main clients so far are the Estonian Athletics Federation, who control athletics nationally, and the British Masters' Athletics Federation, which is the umbrella organization for masters' athletics.

Federation Management

Federations have to be able to manage membership efficiently. In Estonia, competitors need a licence, for which there is an annual fee. To the right (figure 10), you can see our systems for managing athletes, their clubs and their membership status.

We have similar systems for listing coaches and their athletes, authorised sports facilities and listing national competitions.

Figure 11, shows some of the more cutting-edge work to allow clubs to enter teams for relays. Here we have the Estonian Youth Relays (Noorte teatejooksude). Our system allows team managers to pick their teams from club members of the correct age group and gender, with the click of a button. Athletes, or just the order, can be changed on a mobile phone by the trackside.

The race organiser gets the most up to date teams, electronically, before the race starts.

Figure 10: Federation management

This screenshot shows a table of registered athletes. The columns are Name, Coach, Club, ALL, Date of birth, and Licensed. The table lists nine athletes, each with a small blue or pink icon next to their name, indicating gender. The 'Licensed' column contains green checkmarks for most entries, except for Ago Veilberg and Merike Muru, which have red X's.

Name	Coach	Club	ALL	Date of birth	Licensed
Meelis Veilberg		VIKE		11/03/1961	✓
Ago Veilberg		VIKE		08/01/1963	✗
Andrus Maiste		TREEN		21/02/1964	✗
Merike Muru		SPART		07/08/1966	✗
Tina Tross		TAPPS		07/06/1967	✓
Raido Raspel	Urmas Randma	TREEN		07/10/1967	✓
Vjatšeslav Košelev	Jevgeni Terentjev	SILLA		20/01/1968	✓
Indrek Mumm		SPART		01/08/1968	✗

Figure 11: Relay team entry

This screenshot shows the relay team entry interface for the 'Noorte teatejooksude MV' event in Valga on June 3, 2017. It displays three relay squads entered: ALBE (2 clubs), AUDE (Audentese Spordiklubi, 14 entries), and FORT (Spordiklubi Fortis). Below this, a table lists the 'Athletes entered - 14' and 'Relay squads entered - 4'. The 'Runners' column for each squad lists the names of the selected athletes.

Club	Name	Runners
AUDE	MU20 4x1500	1. Peeter-Kait Kallas 2. Mihkel Talivee 3. Ekvard Joakit 4. Ivar Käspér
AUDE	MU18 4x1500	1. Sander Radik 2. Igor Andrejev 3. Ken Mark Minkovski