



human high performance and well being solutions



what is SenseCore

wearable technology,
capturing physiological
and kinetics data



offering performance,
recovery and safety
benefits to users

software, providing athlete
screening, data analysis and
team connection





SenseCore USPs

unique data

comfort redefined

recovery revolutionised

athlete performance management



SenseCore unique data

exclusive data

◀	medical grade electrocardiogram ECG
◀	respiration
◀	true respiration rate
◀	skin body temperature
◀	activity classification

additional data

heart rate
R-R interval
EPOC
calories
acceleration *
endurance run speed & distance *
steps per minute / cadence *
total steps *

* pod-free; without the use of foot or arm pods



medical grade electrocardiogram ECG 1/3

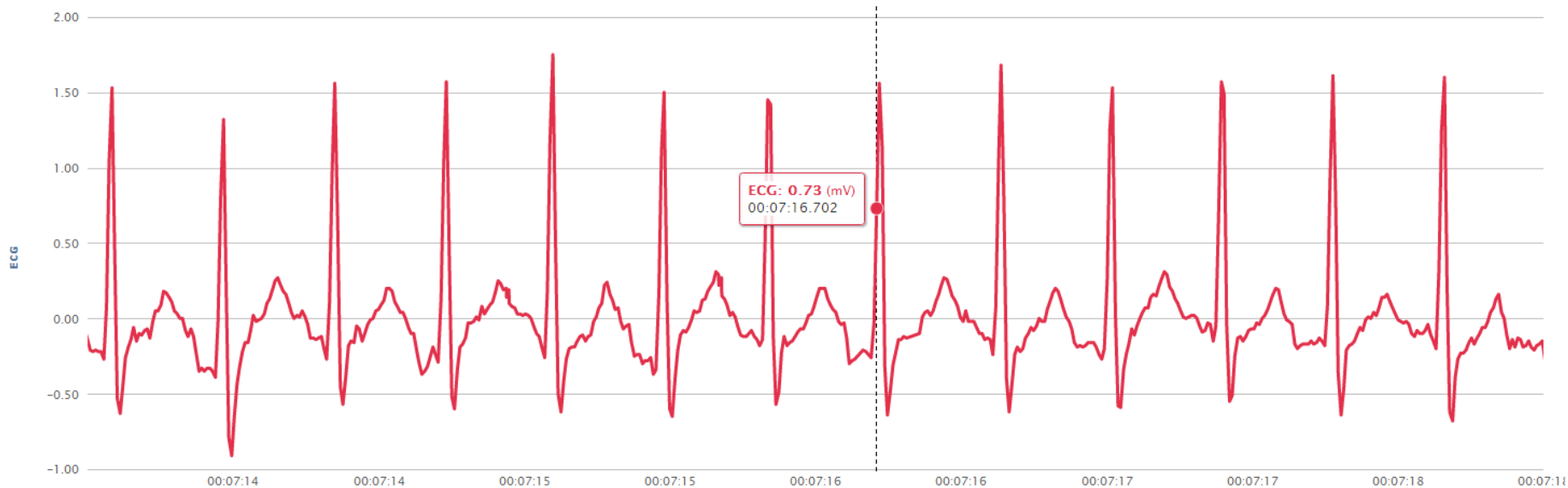
capture for the first time ever medical-grade ECG signal in real life conditions (dry/wet, sport/rest/sleep, etc.) without any adhesives





medical grade electrocardiogram ECG 2/3

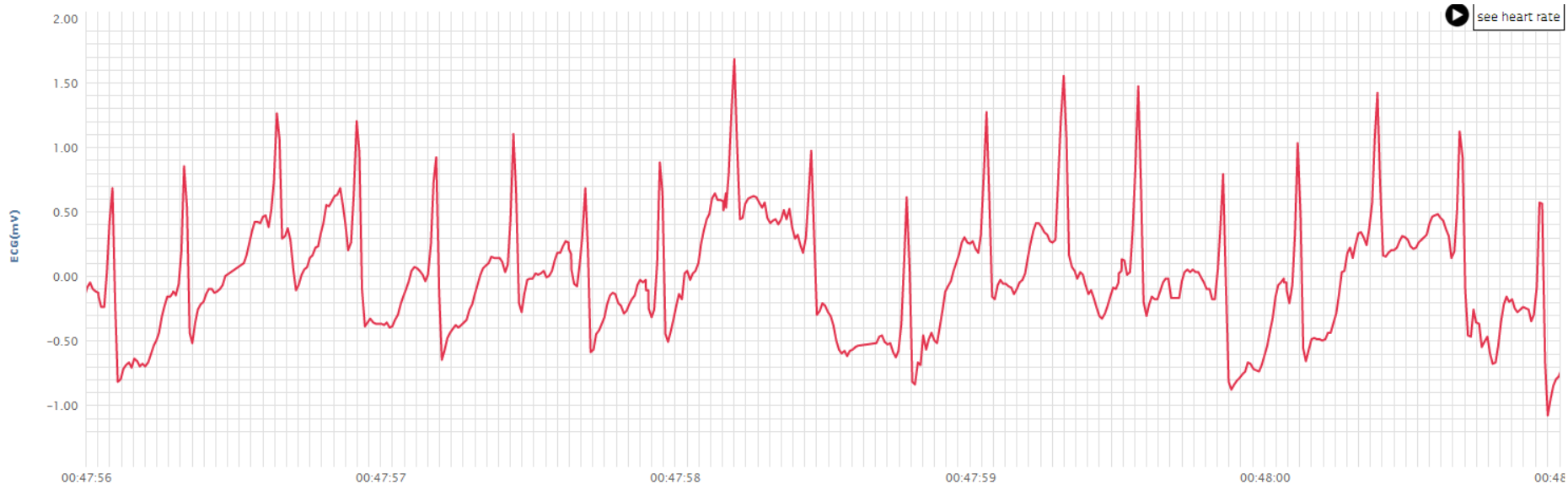
view athlete's ECG in extreme/sport conditions, verifying heart rate signal quality or being able to trace any heart abnormalities





medical grade electrocardiogram ECG 3/3

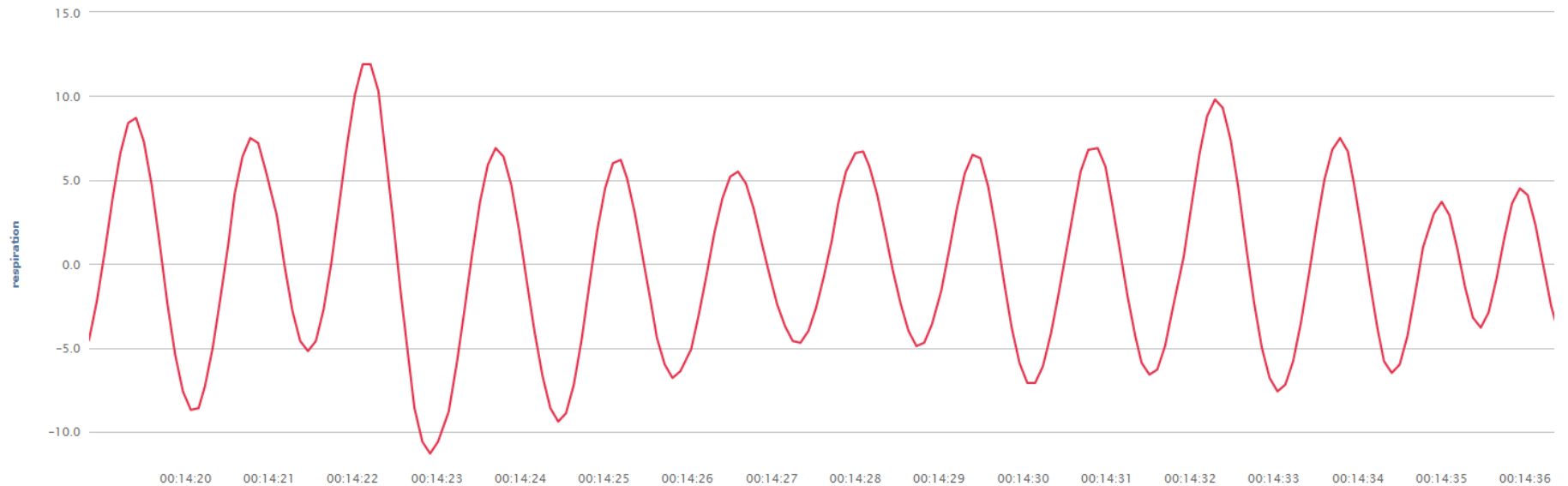
analyse athlete's ECG at 228 heart rate, while doing sport, and assess type of tachycardia (AVRT, etc.)





respiration

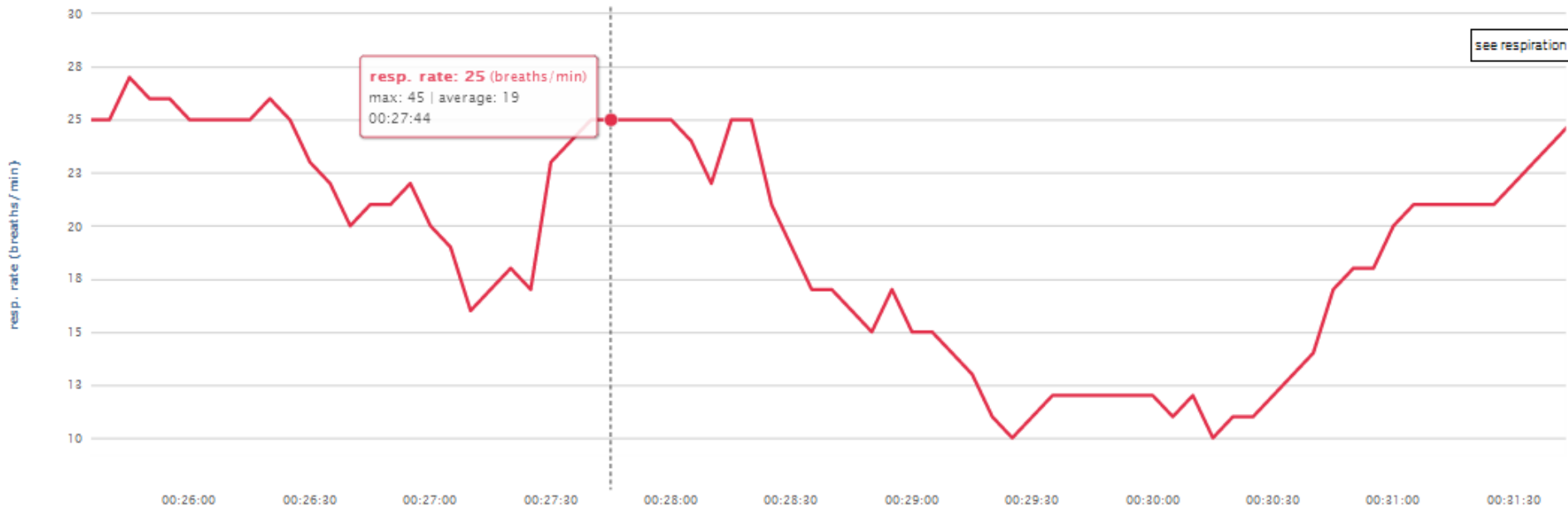
view athlete's respiration while exercising and assess whether he is breathing/oxygenating enough





true respiration rate

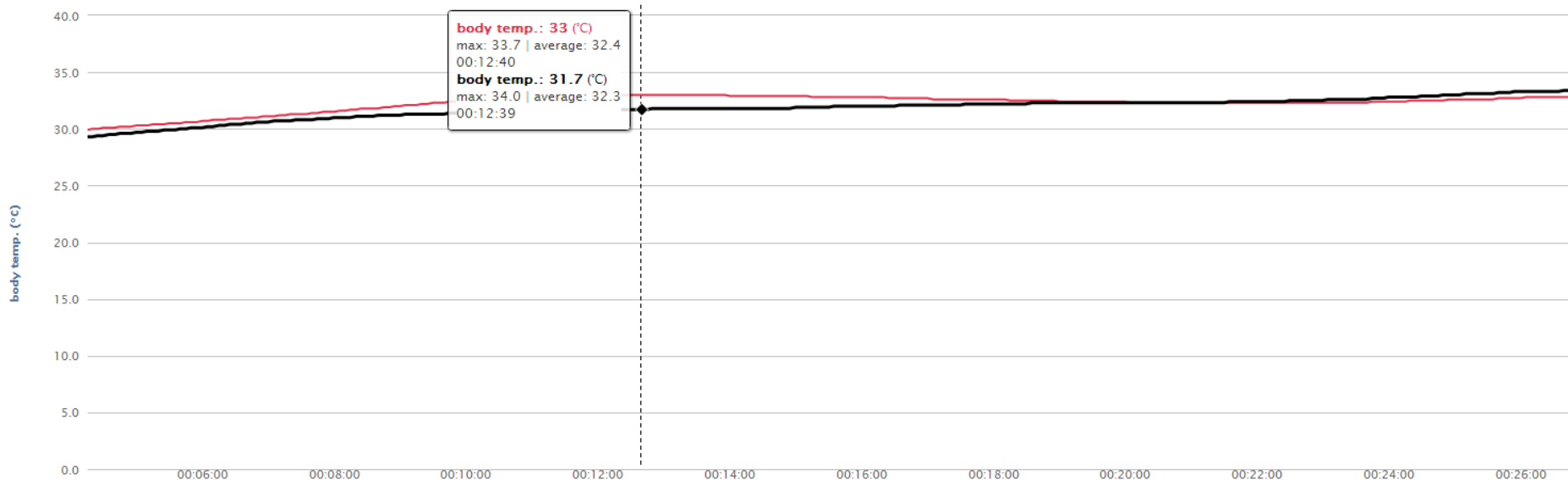
trace athlete's true respiration rate and identify whether she/he forgets to breathe during high-stress moments





skin body temperature

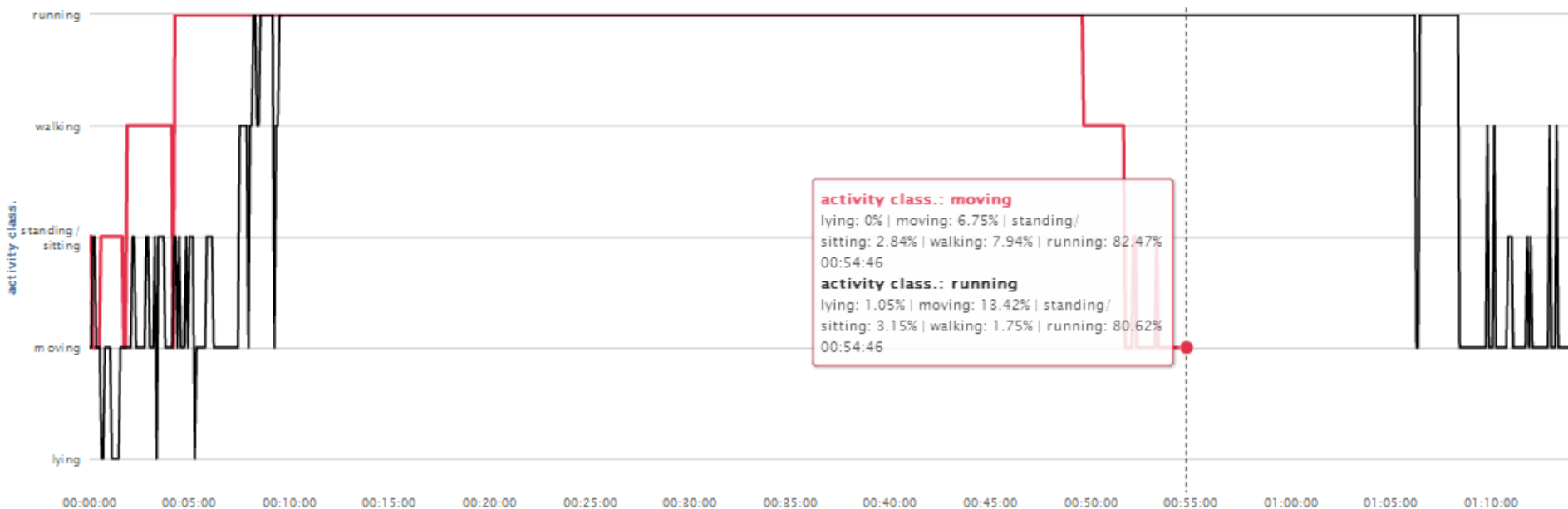
track athletes' temperature and assess climate conditions, outer layer garments' effectiveness, thermoregulation energy loss, etc.





activity classification

see breakdown of athletes' activity, assessing higher vs. lower levels of effort displayed during exercise/competition





SenseCore sensors

SenseCore garments

free of chest belt, foot or arm pods	activity-specific materials and designs
no need for adhesives, water or saliva	ultra-lightweight at 100+gr
ultra-lightweight at 18gr	highly compressive
function under water	hydrophobic, anti-bacterial, anti-UV, etc.
function placed on the front or on the back	



SenseCore sensors

patented Swiss technology, originally developed for astronauts and currently in its 5th generation



charger and carrier unit



SenseCore garments

state-of-the-art compression fabrics, developed for elite athletes and used in Olympic Games



running



cycling



swimming



team sports



sleep



tank-top



recovery revolutionised

sleep-clinic information at home

number and timing of core body movements



ECG-based R-R interval



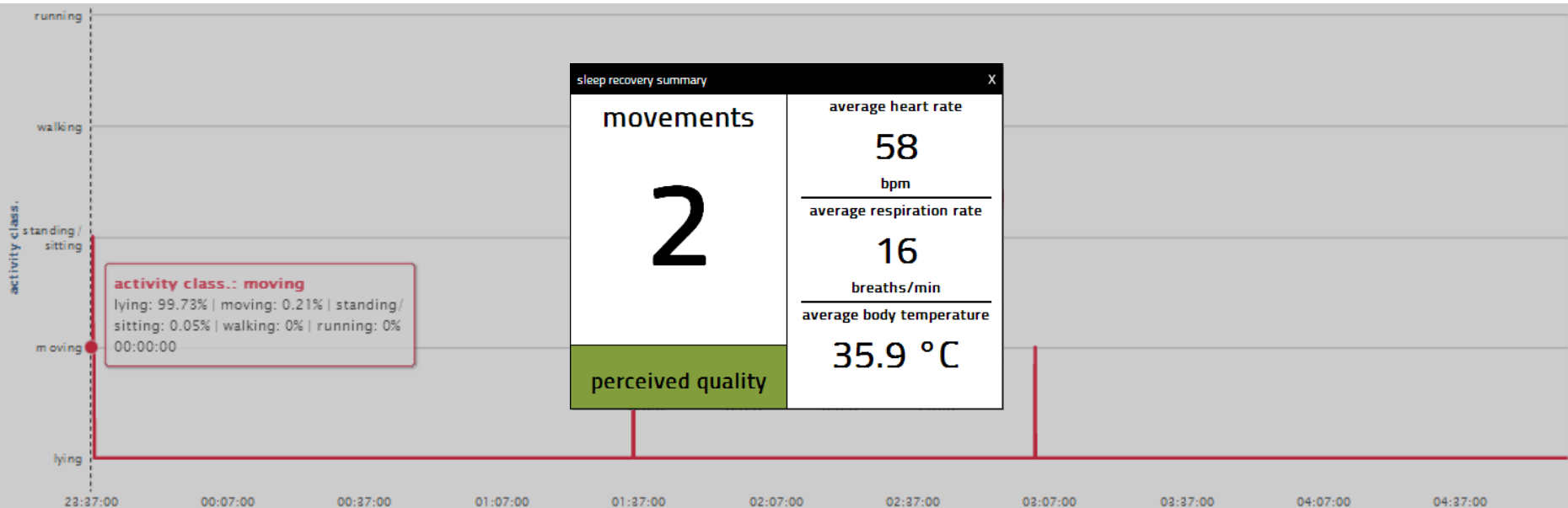
heart rate, respiration rate, body temperature, etc.





core body movements

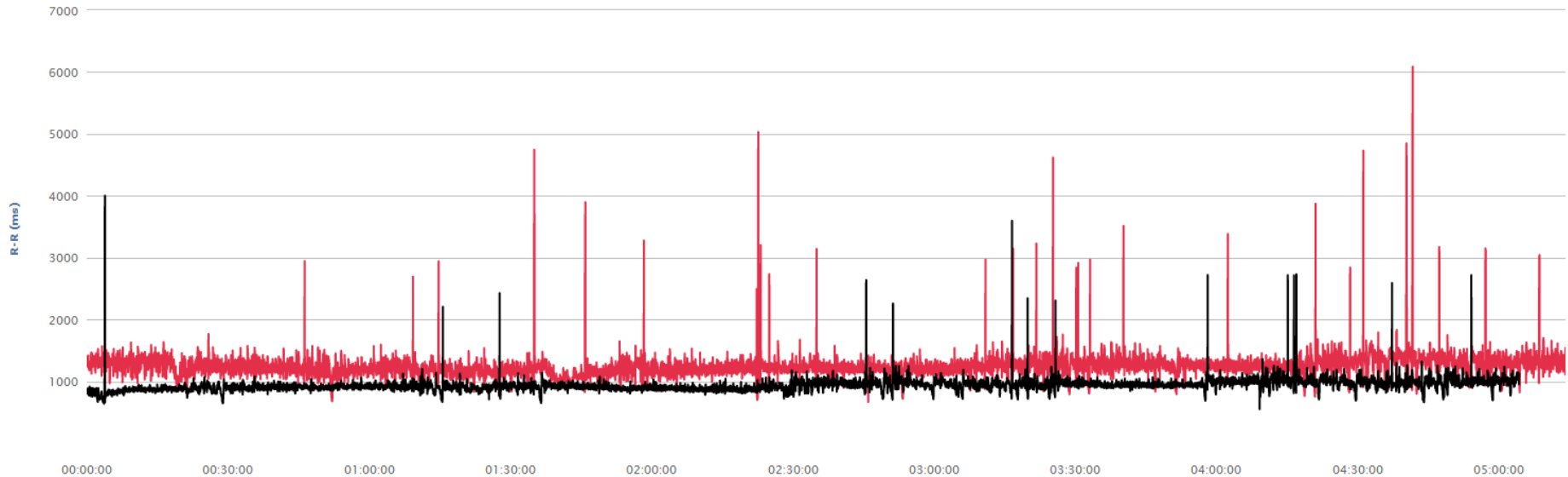
see what time did the athlete fell asleep and how many times was her/his sleep disturbed





ECG-based R-R interval

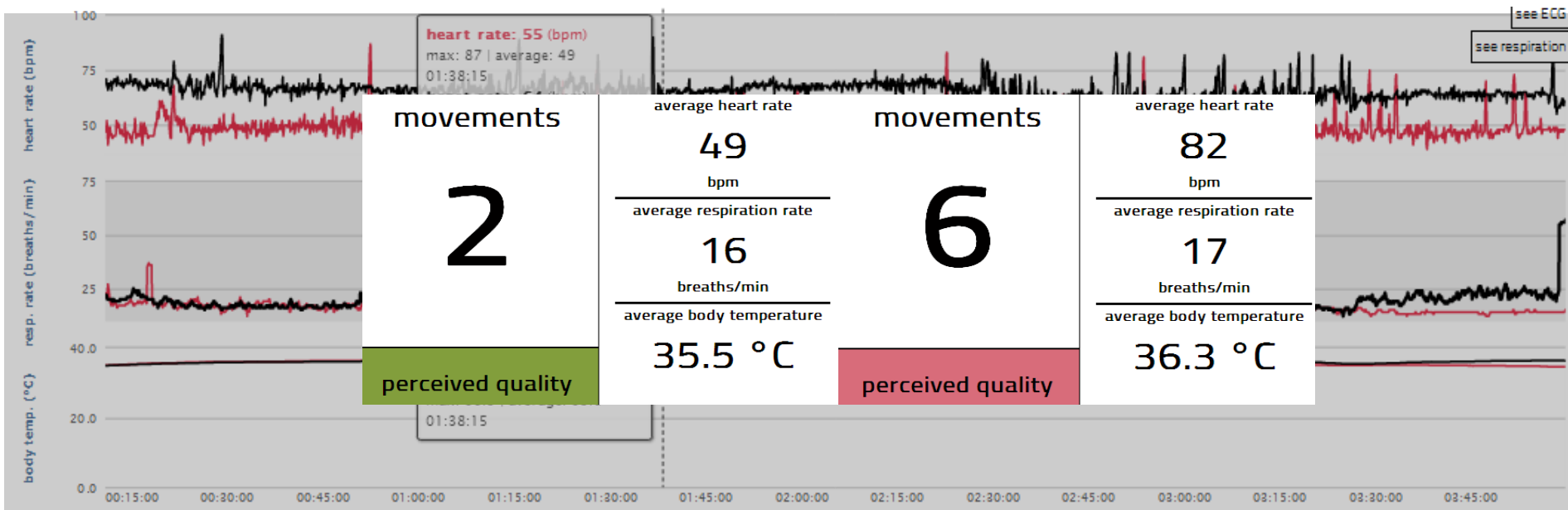
compare R-R interval of athletes' sleep and assess who was in sympathetic or parasympathetic tone





HR, BR, body temperature, etc.

compare data and create base line of good recoveries vs poor recoveries, linked to training, nutrition, jet lag, etc.



holistic athlete/team screening



training analytics



recovery analytics



athlete performance comparison



injuries and sicknesses records



planning function



integrated communications

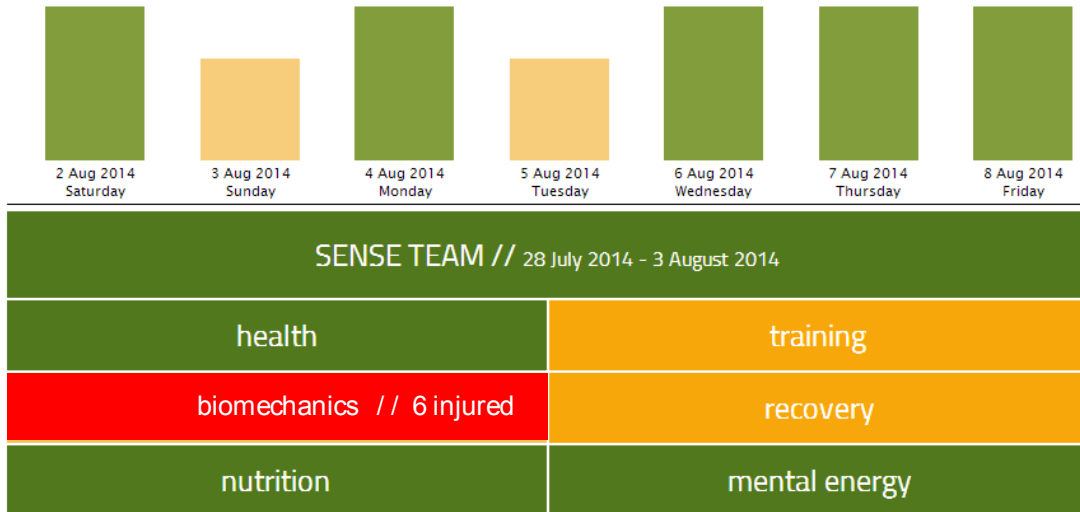




holistic athlete/team screening 1/2

identification of the strong, average and weak between the six
areas enabling human performance

< today // day | week | month | year >
energy





holistic athlete/team screening 2/2

holistic philosophy developed by elite sports scientists



athletes have won 8 F1 World Driver Titles and 100+ Olympic sports medals



training analytics

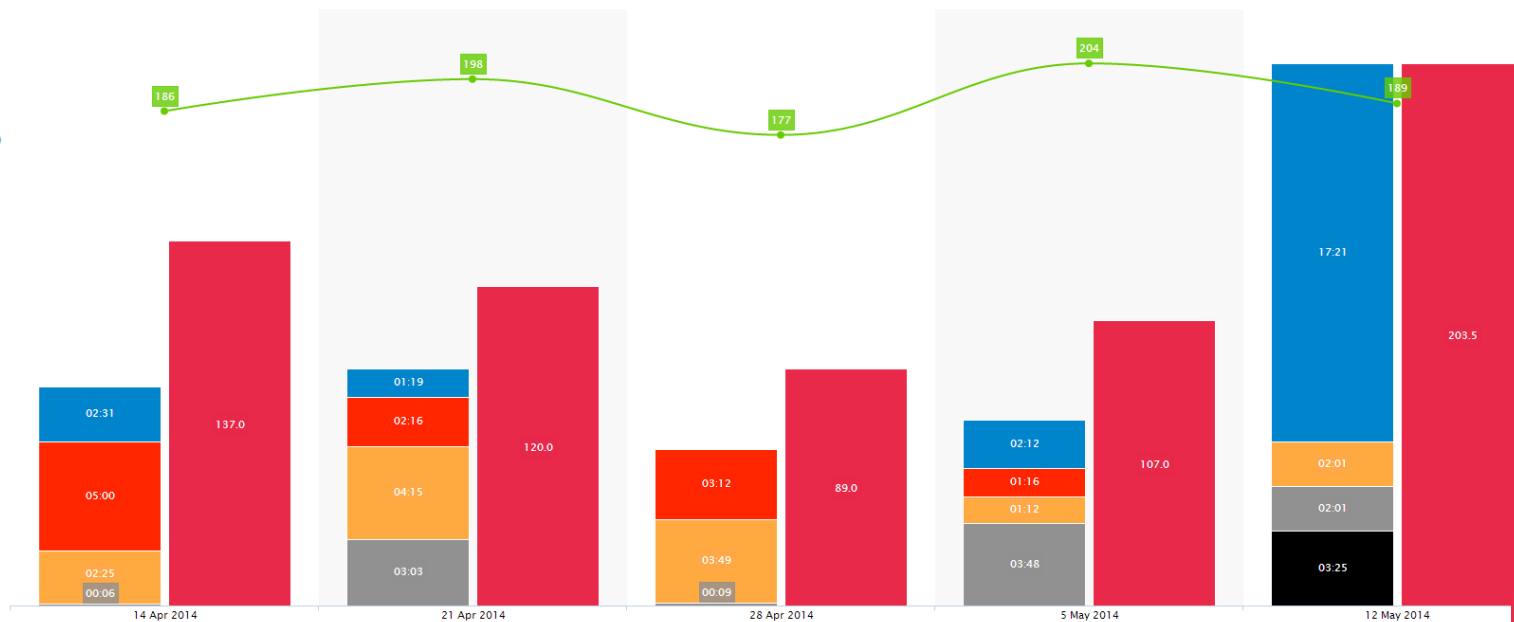
track training breakdown between endurance, strength, sports, etc.
and evolution of the load and performance data



day | week | month | year | // settings labels on/off



- endurance
- strength
- speed
- sport
- competition
- total load
- heart rate (maximum) (bpm)



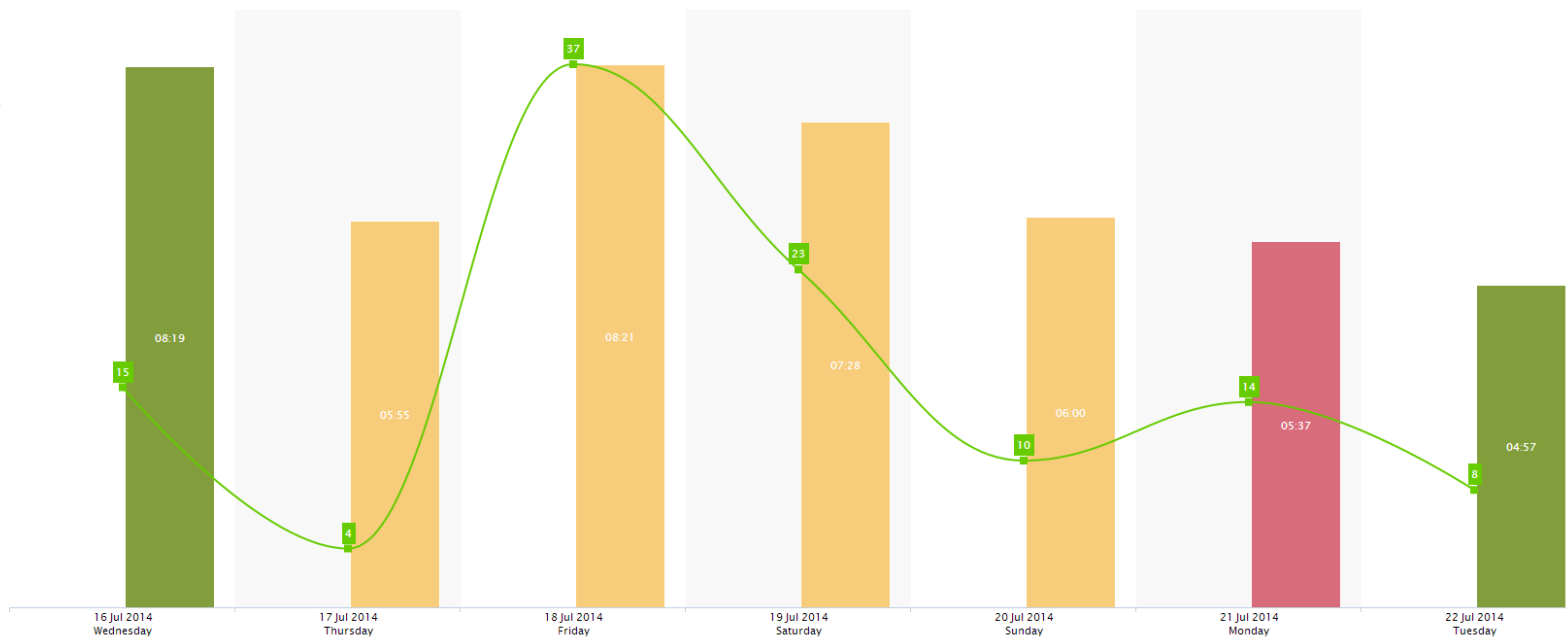
back



recovery analytics

see sleep duration, quality and evolution of the data that are relevant to recovery (e.g. sleep movements)

- poor
- average
- good
- excellent
- total sleep movements (sum)

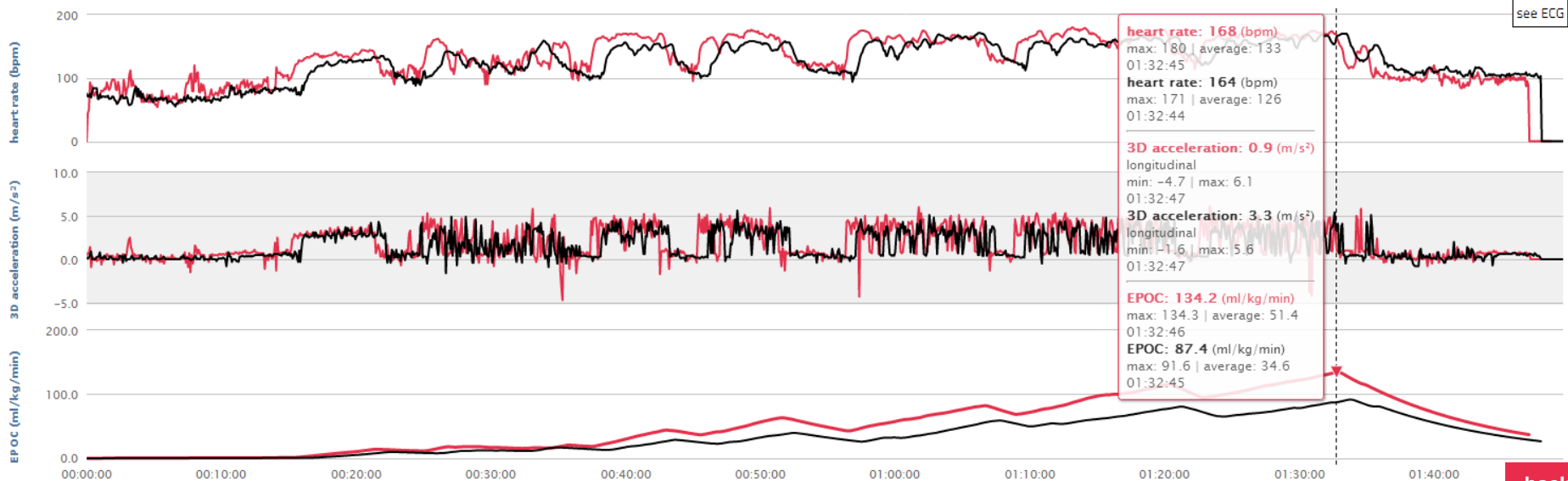




athlete performance comparison

compare two athletes' performance using for example heart rate, acceleration/deceleration, EPOC, etc.

	athlete	duration	max HR	avg HR	hr Z6	hr Z5	max resp.	max temp.	max EPOC	max accel.	acc. Z6	acc. Z5	max decel.
—	athlete 1	01:48:44	180	133	14 / 20	32 / 14	54	35.4	134	4.77	1 / 1	0 / 1	4.72
—	athlete 2	01:49:39	171	126	2 / 4	32 / 19	56	36.6	92	3.39	1 / 1	0 / 1	3.74





injuries & sicknesses records

individual lists for all past sicknesses and injuries, allowing the team to identify the players suffering the most



#	name	total injured days	injuries history
<input type="checkbox"/>	Alevropoulou Sissy	129	see details
<input type="checkbox"/>	Costanzo Adam	98	see details
<input type="checkbox"/>	Costanzo Adam	77	see details
<input type="checkbox"/>	Costanzo Adam	60	see details
<input type="checkbox"/>	Reilly Brendan	47	see details
<input type="checkbox"/>	Kersten Simon	35	see details
<input type="checkbox"/>	Giannakis Alexandros	33	see details
<input type="checkbox"/>	Prantzos Vasilis	31	see details
<input type="checkbox"/>	Ammann Lukas	24	see details
<input type="checkbox"/>	Mills Robert	22	see details
<input type="checkbox"/>	Bohl Raphaël	8	see details
<input type="checkbox"/>	Prantzos Vasilis	1	see details

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add

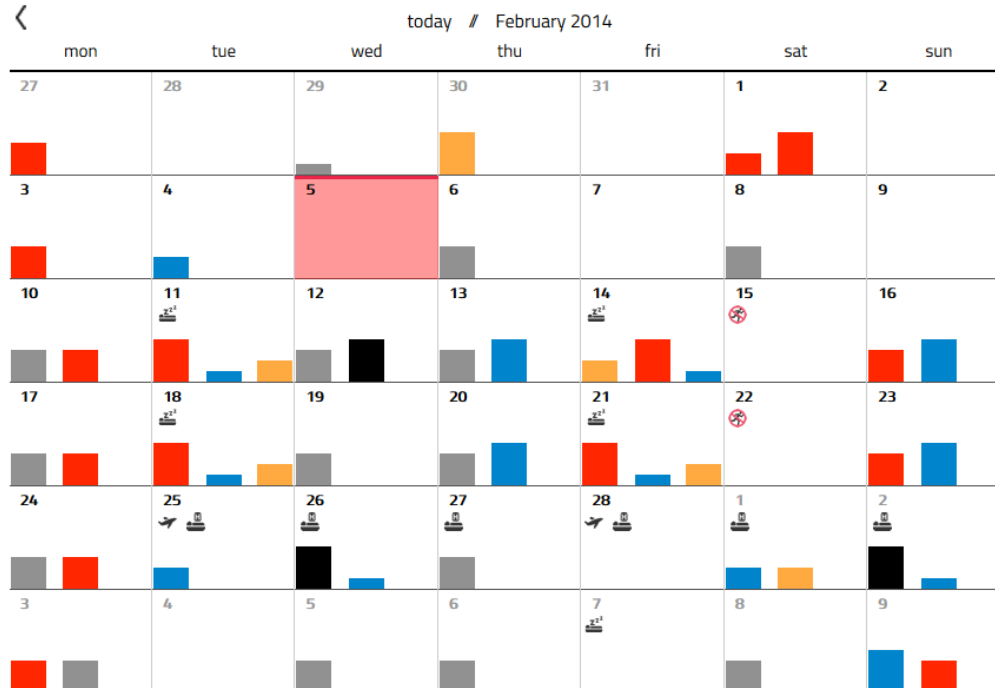
edit

back



planning function

organise training and rest days in relation to travel; plan sleep recovery nights based on competition events, etc.





option to chat privately/in group between athletes & experts, as well as to chat within sessions or medical files

all Raphaël Bohli Lukas Ammann Adam Costanzo Steven Hooker Yorgi Mavros

me // excellent AL 14:35 ▲

12/08/2014

Adam Costanzo // Hey guys, you can see my sleeping average heart rate is about 20% higher than its lowest. I have been working right up until going to bed. I am going to implement some relaxation techniques over the next days and see the effect. Should be interesting. 23:27

25/08/2014

Raphaël Bohli // Doc I just wanted to check if everything was ok with you ? Looking at the last sleep recording, you do seem to be moving a lot during your sleep and your HR does not get down to usual levels. Are you stressed ? Please let me know should you want to share anything 11:44

Adam Costanzo // Well Raph, yes I am quite busy at the moment, but don't worry 01:34 ▼

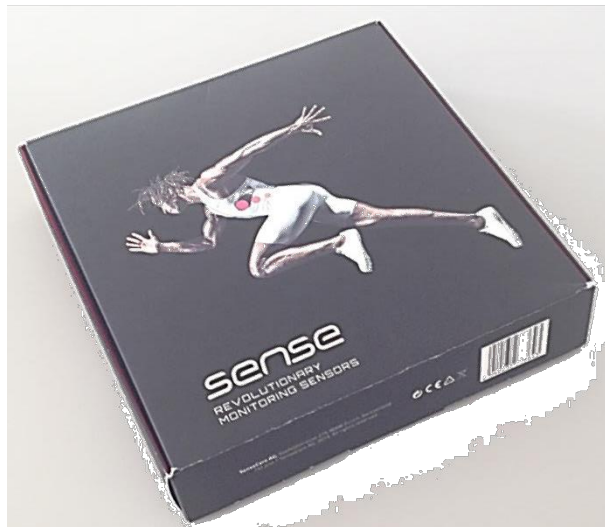
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enter message



SenseCore products

athlete and team products available for professional sports



sense pro

1 athlete
5 experts



sense pro team

10-30 athletes
10 experts



some SenseCore stories



Jan Frodeno
Triathlete – Olympic Champion



Alex Rowe
- 800m runner



Sir Steve Redgrave
- 5 times Olympic winner rowing



various F1 pilots



IMG - world's leading sports mktg agency



Mayo Clinic



Kuortane OTC



EVZ ice hockey team



Dr Casserley
Mt Everest & Arctic Circle



SenseCore Racing Team



SenseCore target markets

use cases

- / endurance sports
- / team sports
- / Olympic sports
- / extreme sports

- / running
- / cycling
- / swimming
- / gym/fitness
- / corporate wellness

- / cardiovascular diseases
- / respiratory diseases
- / adult type diabetes



product benefits

- / improve performance
- / avoid overtraining and injuries
- / reduce monitoring costs
- / improve safety (e.g. sudden death)

- / provide personal guidance
- / trigger motivation for self-improvement
- / enhance knowledge about 6 core elements of wellbeing

- / increase patient quality of life
- / increase patient safety
- / reduce costs (i.e. hospital visits & clinical stay)
- / support science with real-life data



our vision

become the reference for

- / performance optimisation systems
- / well-being applications
- / preventive healthcare solutions



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