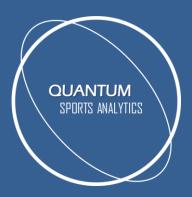
# FULL GUIDE & DEMO QSA RPE & QSA RPE LIGHT QSA WEB



info@quantum-sports-analytics.com





www.quantum-sports-analytics.com

#### **SUMMARY**

#### PART 1. SETUP

- 1) Download and Create an account
- 2) Create a team
- 3) Create player profiles
- 4) Invite players to download their application (if required)

#### PART 2. DAILY USE

- 1) Wellness questionnaire
- 2) Create training or match sessions
- 3) Collect players answers on RPE and Pain/Injury
- 4) How can my players create their own training session? (if required)

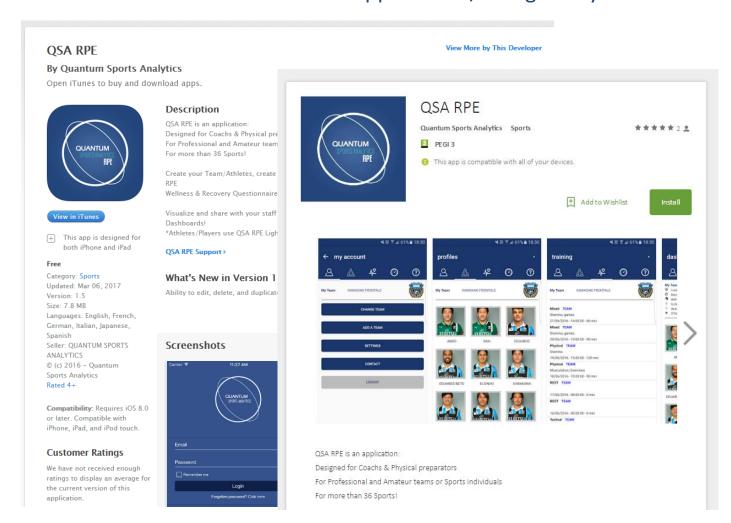
#### PART 3. DATA ANALYSIS

- 1) Analysis on QSA RPE
- 2) Analysis on QSA WEB
  - Access and connexion
  - Analysis Pages
  - Session Calendar
  - Training Analysis
  - Wellness Analysis
  - Pain & Injury Analysis
  - Export your data to Excel

#### PART 4. FAQ

1) My

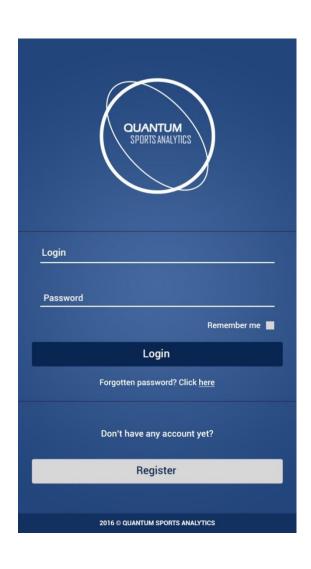
# 1. DOWNLOAD Via Apple Store / Google Play



Free download

https://itunes.apple.com/us/app/qsa-rpe/id1105309924?mt=8

https://play.google.com/store/apps/details?id=com.gsa.coach



#### 1. CREATE AN ACCOUNT

After installing **QSA RPE©** you will need to create an account.

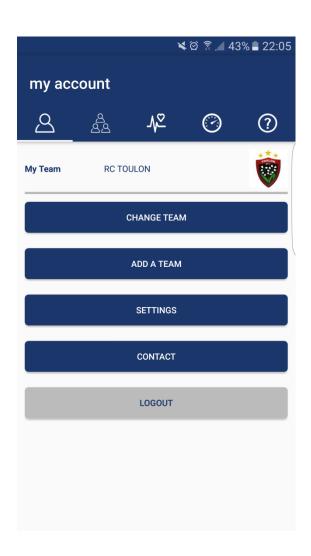
To do so, click on the **Register** button.

Once you have your credentials, enter your Login name and Password, and hit **Login**.

<u>Note</u>: you have the possibility to Login quicker next time by checking the **Remember me** box under the password line.

When first created, your account is automatically turned into a 20-day trial, limited to the creation of 12 players.

Please contact QSA to discuss terms of an different trial. info@quantum-sports-analytics.com



#### 2. CREATE A TEAM

If you have a Team account, you can create a Team, using the button **ADD A TEAM.** The maximum number of Teams you can create depends on your subscription details, but in theory there are no limits.

In **SETTINGS**, you can select the **questions** you want to ask your players. All questions are selected by default.

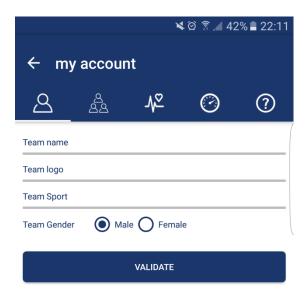
In **CONTACT**, you can see information about **Quantum Sports Analytics.** 

Finally, you can also **Log Out**.

To create a team, select **ADD A TEAM**.



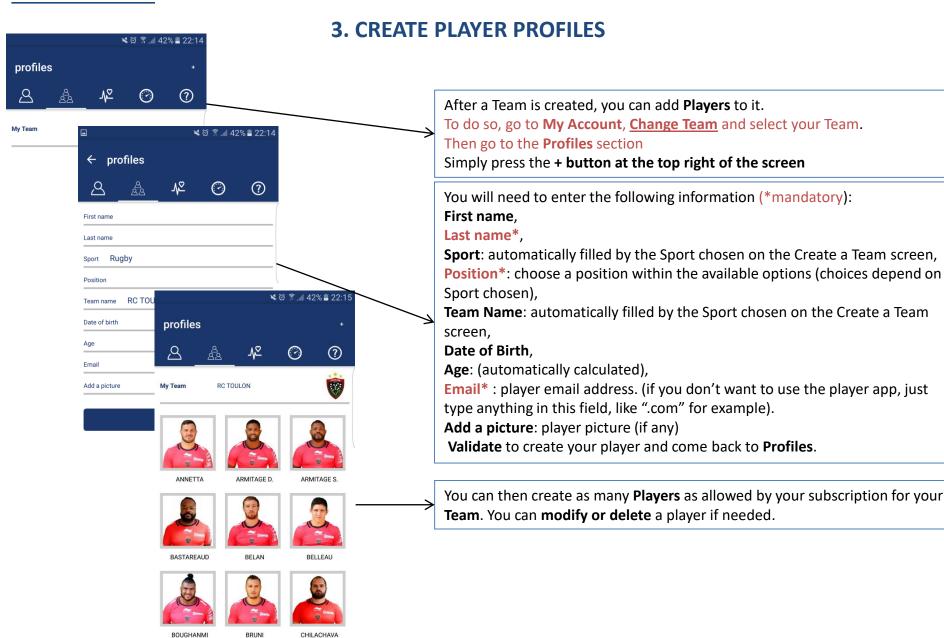
#### PART 1. SETUP



#### 2. CREATE A TEAM

- Go to My Account → Add a team. You will then access the team creation page.
- Add a **Team Name**, **Logo** (if you have a picture to upload) and select the **Sport**.
- Selecting the Sport will have an impact later when creating Players.
- Validate this page to go back to My Account.

### **PART 1. SETUP**



# 4. INVITE PLAYERS TO GET THEIR OWN APPLICATION, QSA RPE LIGHT©

#### **IMPORTANT NOTE**

This is only for coachs who want their players to answer on the player application QSA RPE LIGHT ©.

If you rather want players to answer on your application (for example by asking them one by one to fill in questionnaires on your tablet or phone), you can ignore this section.

When a player is created,

- · Go back to his profile,
- Select "CREATE AN ACCOUNT" under the validate button
  - > Your player will receive an **invitation link** to download QSA RPE LIGHT © (player application), along with a **login** (= the email address used in the player profile) and a **password**.
  - That means players don't need to go download the application and don't need to create an account themselves!

    All the setup has to be done by the coach (this is very important, otherwise it can lead to setup issues)

#### STEPS that we advise to follow:

- a. Create your player profiles, make sure all emails are correct
- b. Let your players know that they will soon receive an invitation link with connexion credentials. The email can be in the spam folder in some cases
- c. Go back to each player profile and click on "create an account" for all of them
- d. Check with your players that everyone has received the invitation
- e. Check with your players that they could clik on the link to download the player application, and connect with credentials given by email.
- f. You should be all set.

### 1. WELLNESS QUESTIONNAIRE



#### WHERE?

- In the **Well-Being & Recovery** section of the player application,
- > Or in the **Profile section** of the coach application, you can answer your **Wellness questionnaire**.
- The date is set by default to today's date and cannot be changed. It is
  recommended to ask your players to answer this questionnaire every morning
  after waking up. (to give consistency to the analysis).
- All you need to do is answer all Wellness & Recovery questions:
  - Pain and Injury (opens a body map to select the zone and intensity of pain or injury)
  - Sleep Quality (0 = very very well; 6 = very very bad)
  - Fatigue (0= very very well; 6 = very very bad)
  - Muscle soreness (0= very very low; 6 = very very high)
  - Stress (0= very very low; 6 = very very high)
  - Mood (0= very very well; 6 = very very bad)
  - **Recovery** (0= very poorly; 10 = very well recovered)
  - Menstruations (yes or no): only if the team is a Women team
- Validate this page to go back to My Account.
- Informations will be automatically sent to the coach application.

#### 2. CREATE TRAINING OR MATCH SESSIONS



Click on the heartbeat icon to land on the **Training History** screen. You can see past training sessions and add a new one.

To add a new session, simply press the + button at the top right of the screen.

#### **Enter the following information:**

**Date** 

Time: from (hour) to (hour)

**Duration**: will be automatically calculated (in minutes)

**Training type**: select a training type in the list

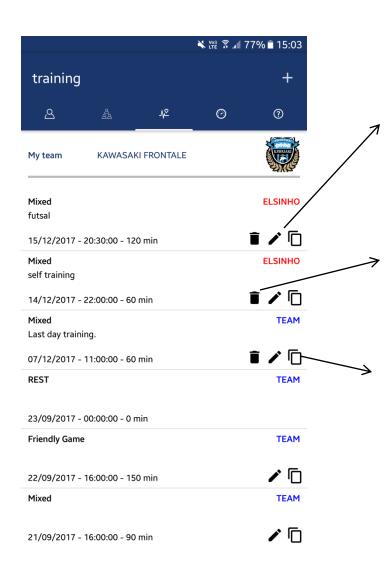
**Description**: add a text to give more details about your session **Validate** to create the session and come back to the Training history section.

Your new session is now created and your players will be notified on <u>QSA RPE Light</u> (for players) 30min after the end time of the session, to enter their RPE.

If you have no session today, simply select a Date then press **REST** (your players will be assigned a RPE of 0). Very important point to reflect rest in the training schedule.



#### 2. EDIT OR DELETE TRAINING OR MATCH SESSIONS



To **EDIT** a session, click on the **Pen icon**.

- If the session has not happened yet, you can change all details.
- If the session has already happened AND that at least 1 athlete replied to the RPE, you can only edit the Training Type and Description.

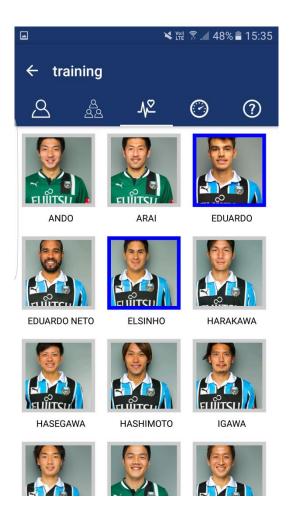
To **DELETE** a session, click on the **Bin icon**.

- If the session has already happened AND that at least 1 athlete replied to the RPE, you WON'T be able to delete it. Please contact QSA if you really need to delete a session where athletes already replied.
- Otherwise, you can delete all other created sessions if needed

To **DUPLICATE** a session, click on the **Copy icon**.

- You can use it to quickly create a new session where one or more fields are similar to what you want to create.
- Note: if you create sessions in the future, your athletes will be able to see them listed in their PLANNING page (if they use the player application).

# 3. COLLECT PLAYER ANSWERS ON RPE & PAIN/INJURY

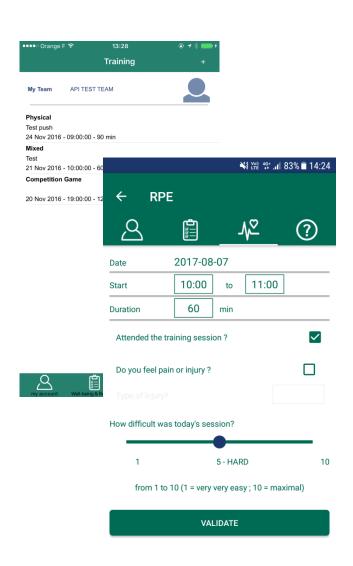


- Athletes who answered = blue square notification
- Data collection via :

QSA RPE (coach app) or QSA RPE LIGHT (athlete app)

- Collected data:
  - Before training
    - ✓ Pain and Injuries
    - ✓ Sleep quality
    - ✓ Stress
    - ✓ Mood
    - ✓ Fatigue
    - ✓ DOMS
    - ✓ Recovery
  - After training
    - ✓ RPE
    - ✓ Pain and Injuries

# 3. COLLECT PLAYER ANSWERS ON RPE & PAIN/INJURY



Created sessions will be instantly available on the coach and player applications to collect answers.

Otherwise, players will be sent a notification 30min after the end time of the session planned by your coach.

To answer the **RPE question** and report any **pain or injury** following the session:

- In the coach app: go to the training page and select the training itself
- In the player app: go to the training page and select the training itself (see screenshot)
  - 1. If the player attended the session, no need to click on the toggle.
    - a) Check if the **Duration** is correct.
      - (players) for any session, you can reflect how many minutes you played by changing the "Start" – "To" section!
    - b) Answer the RPE question and the Pain/Injury question
    - c) Validate. Data will be sent to the coach automatically.

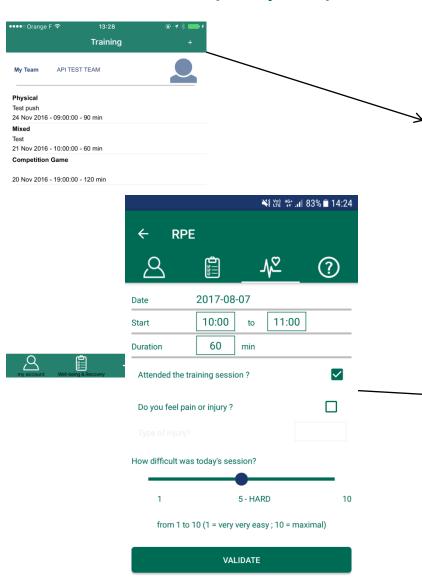
#### 2. If the player did not attend the session

- a) Click on the toggle button
- b) Select a reason why you did not attend
- c) Validate. Data will be sent to the coach and your coach.

#### **Important**

If a player has an issue or cannot answer, the coach can do it in his application!

# 4. (If required) A PLAYER CAN ENTER HIS OWN SESSIONS



Players can create their own personal sessions (extra work, additional sessions, recovery sessions after injury, etc...).

Data will be sent to the coach, so that's better to agree with players whether they should or not report any individual sessions.

#### To add a new personal session

- > Go to the RPE screen.
- > Press the + button at the top right of the screen.

#### Enter the following information:

**Date** 

Time: Start (hour) to (hour)

**Duration**: will be automatically calculated (in minutes)

**Training type**: select a training type in the list

**Description**: add a text to give more details about the session

**Validate** to create the session and come back to the Training history section.

The new session is now created.

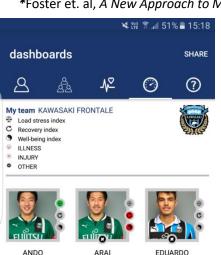
You will be able to see it in the RPE screen.

Select it after to answer the RPE and Pain/Injury!

### 1. ANALYSIS ON QSA RPE (coach app) – MAIN VIEW

On the Main page, you will find your Team and the indexes for each player. Each index is calculated and is a direct application of the Foster\* method.

\*Foster et. al, A New Approach to Monitoring Exercise Training, Journal of Strength and Conditioning Research, 2001, 15(1), 109-115



#### **LOAD STRESS INDEX**

How a player accepts the training charge compared to his own training charge over the past calendar week.

Find out instantly whether your player training is Optimal, Normal, going Low to Too Low, or inversely, High to Too high! Adapt you training in consequence to optimize your player performance.

#### **RECOVERY INDEX**

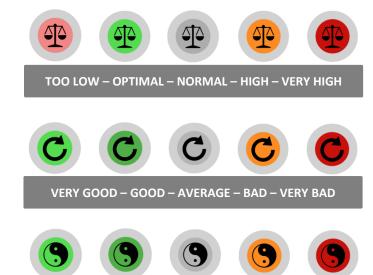
How a player recovers from the last training session. If recovery is not good enough, average, or good, you will see that instantly!

#### **WELL-BEING INDEX**

How a player feels.

If anything is wrong, it is maybe time for a chat with your player! Is it about stress, sleep, mood issues?

Also, find out instantly:
Injured,
Sick players,
Players absent for other reasons,
Players in their menstruation period (Women sports)



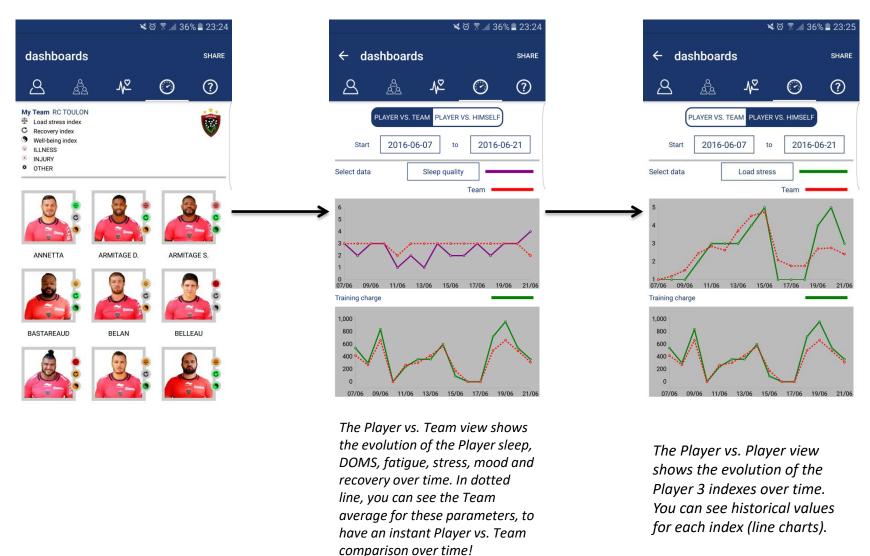
VERY GOOD - GOOD - AVERAGE - BAD - VERY BAD



## 1. ANALYSIS ON QSA RPE (coach app) – PLAYER VIEW

#### To know more about a player, click on him on the dashboard page!

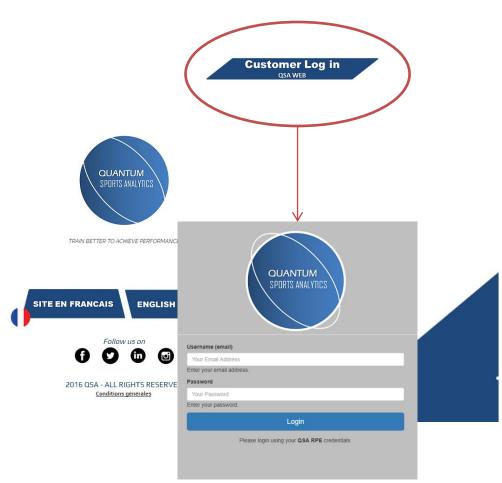
To access more data, there is QSA WEB (see the following slides)



# 2. ANALYSIS ON QSA WEB Access and Connexion

- > GO TO www.quantum-sports-analytics.com
- > CLICK ON "customer Log in"
- > On the next page, type your email address and password (from QSA RPE coach app)
- > CLICK ON "Log in"





# 2. ANALYSIS ON QSA WEB Analysis Pages

#### There are 5 pages in the QSA WEB tool



#### **SESSION CALENDAR**

Allows you to see your team and player sessions and edit their "Duration" and "Description"

Thanks to this you can adjust session times for your players, to better reflect the training charge.



#### TRAINING ANALYSIS

Allows you to see your team and player training load, cumulated load, acute:chronic workload, RPE and Load Stress

This is the page where all data linked to training times and RPE will be visible.



#### **WELLNESS (AND RECOVERY) ANALYSIS**

Allows you to see your team and player Wellness card

This is the page where all data linked Wellness and its components (mood, sleep, DOMS, fatigue, stress) and Recovery will be visible.



#### **PAIN & INJURY ANALYSIS**

Allows you to see your players reported Pain & Injuries

You can see Low intensity pain, high intensity pain and Injuries for each player by day, week, month, quarter, half-year and full year. Historical data can also be seen (i.e. what is a player most common pain or injury). The page also shows whether a reported pain or injury occurred after a training session.



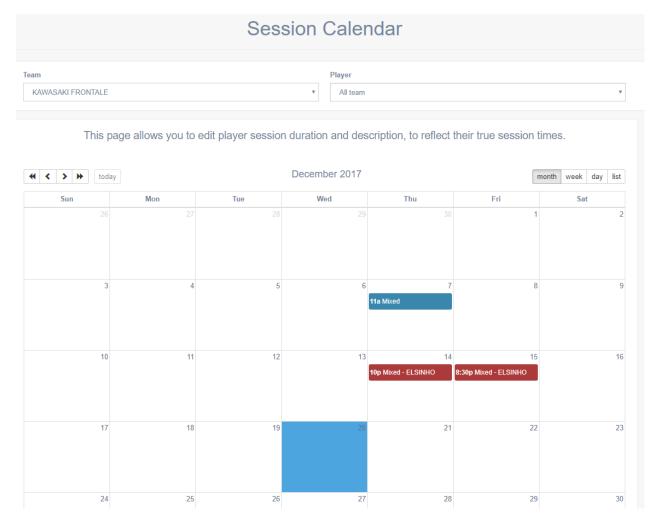
#### **EXPORT DATA**

Allows you to export your data in Excel or PDF format.

You can download all team data in a single excel file! (player by player in the same spreadsheet)



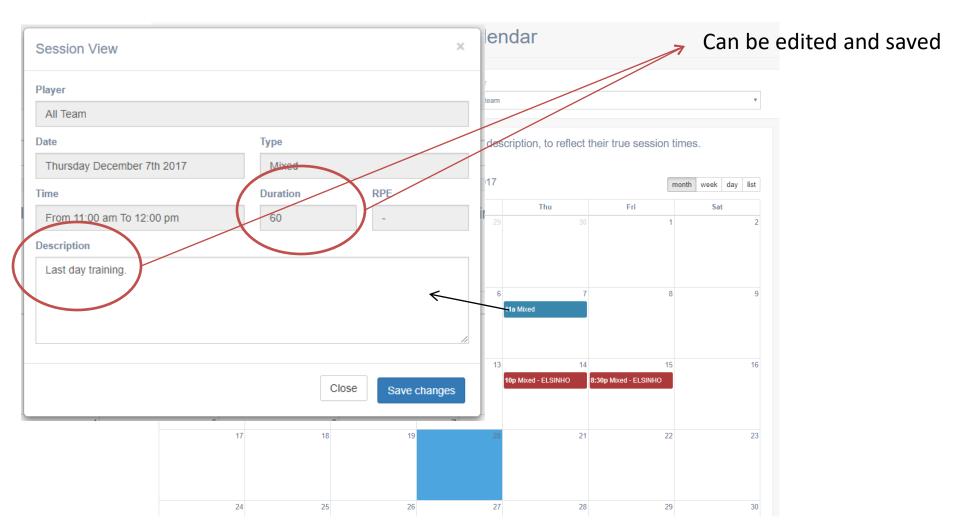
# 2. ANALYSIS ON QSA WEB Session Calendar





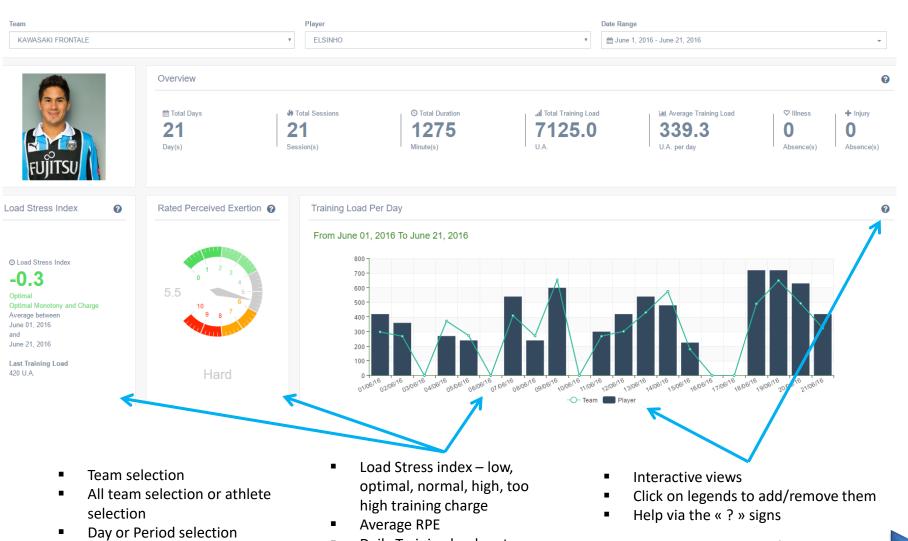
# 2. ANALYSIS ON QSA WEB Session Calendar

### There are 5 pages in the QSA WEB tool





# 2. ANALYSIS ON QSA WEB Training Analysis



Daily Training load vs. team

Continue on the same topic



# 2. ANALYSIS ON QSA WEB Training Analysis

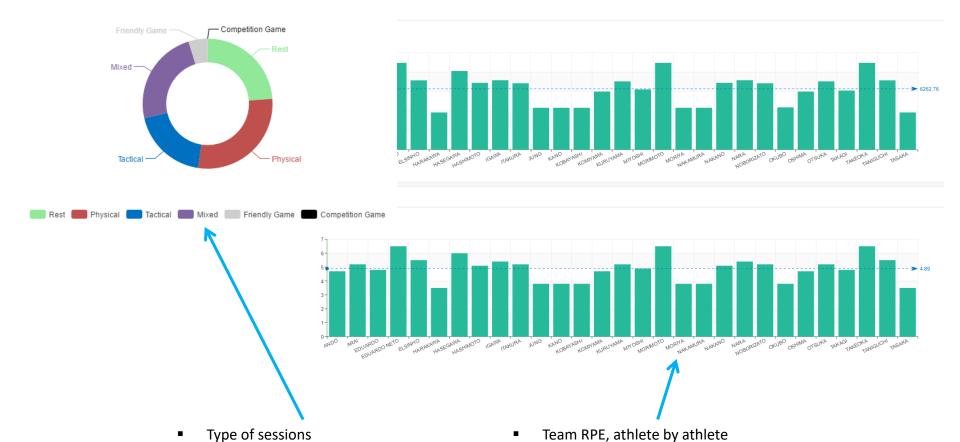


 Acute:Chronic workload ratio to measure the risk of apparition of injury Cumulated training load over the last 4 weeks





# 2. ANALYSIS ON QSA WEB Training Analysis



Interactive legend, add/remove

them by clicking on them

Team Training Load, athlete by athlete



# 2. ANALYSIS ON QSA WEB Training Analysis

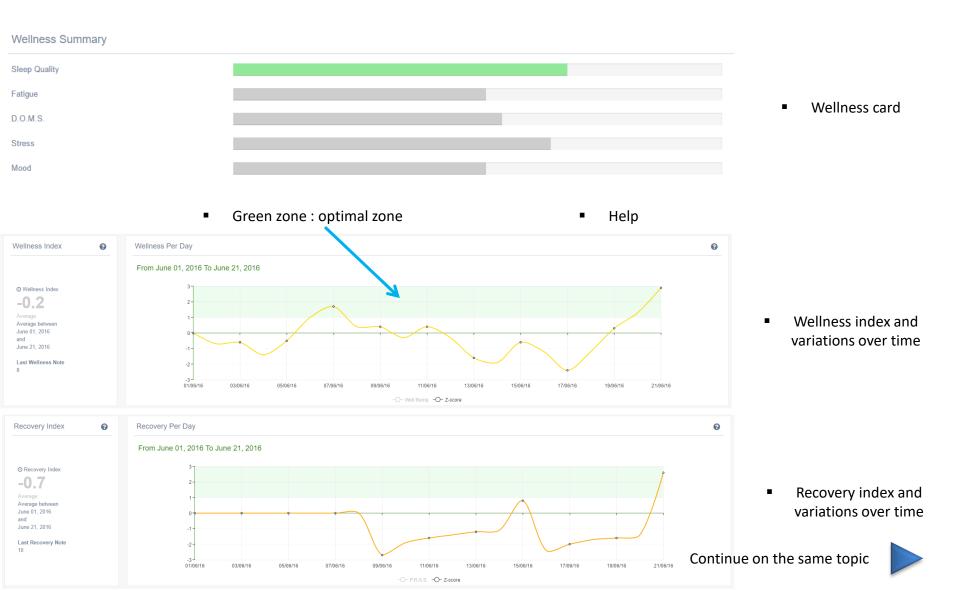
#### Summary Table

	Туре	Start Time	Duration (min)	R.P.E.	Description	
June 21, 2016	Mixed	14:00	60	7.0	Stamina, games	
June 20, 2016	Mixed	10:00	90	7.0	Stamina, games	
June 19, 2016	Physical	15:00	120	6.0	Stamina	
June 18, 2016	Physical	10:00	90	8.0	Musculation, Exercises	
June 17, 2016	REST					
June 16, 2016	REST					
June 15, 2016	Tactical	10:00	45	5.0	Video,opposition	
June 14, 2016	Mixed	15:00	120	4.0	Stamina, games	
June 13, 2016	Tactical	10:00	90	6.0	Oppositions, games	
June 12, 2016	Physical	10:00	60	7.0	Musculation, Exercises	
June 11, 2016	Mixed	10:00	60	5.0 Stamina, games		
June 10, 2016	REST					
June 09, 2016	Friendly Game	14:00	120	5.0	Friendly	
June 08, 2016	Tactical	14:00	60	4.0	Video, opposition	
June 07, 2016	Physical	10:00	90	6.0	Musculation, Exercises	
June 06, 2016	REST					
June 05, 2016	Mixed	14:00	60	4.0	Stamina, games	
June 04, 2016	Tactical	14:00	90	3.0	Video opposition	
June 03, 2016	REST					

Training schedule recap



# 2. ANALYSIS ON QSA WEB Wellness (and Recovery) Analysis





# 2. ANALYSIS ON QSA WEB Wellness (and Recovery) Analysis

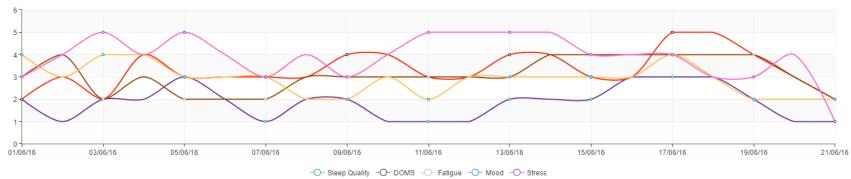
Sleep quality, DOMS, fatigue, mood, stress



Sleep Quality, DOMS, Fatigue, Mood And Stress Per Day

#### From June 01, 2016 To June 21, 2016

Click onto the legend to show or hide values.



- Interactive legend
- Add/remove a curve by clicking on the legend
  - Build your own analysis





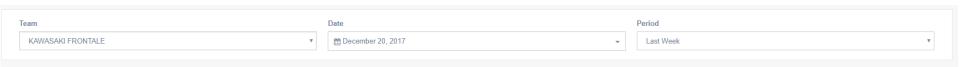
# 2. ANALYSIS ON QSA WEB Wellness (and Recovery) Analysis

<ul><li>Team view</li></ul>							
Team View							3
Player	Position	Sleep Quality	Fatigue	DOMS	Stress	Mood	Recovery
ANDO	Goalkeeper	2.3	2.5	2.5	2.2	2.0	6.9
ARAI	Goalkeeper	1.9	2.3	2.3	1.7	1.6	8.1
EDUARDO	Centre Back	1.8	3.5	3.0	1.5	1.5	5.5
EDUARDO NETO	Centre Midfielder	2.0	3.1	3.4	1.7	2.1	8.3
ELSINHO	Centre Back	1.9	3.1	3.3	3.9	2.9	7.3
HARAKAWA	Centre Midfielder	2.3	2.6	2.6	2.4	2.1	7.0
HASEGAWA	Centre Midfielder	2.3	3.1	2.6	1.9	1.7	7.0
HASHIMOTO	Centre Midfielder	2.1	2.9	2.9	2.4	2.0	6.5
IGAWA	Centre Back	2.3	2.5	2.4	2.2	1.9	7.0
ITAKURA	Centre Back	2.2	2.4	2.4	2.1	1.9	7.1

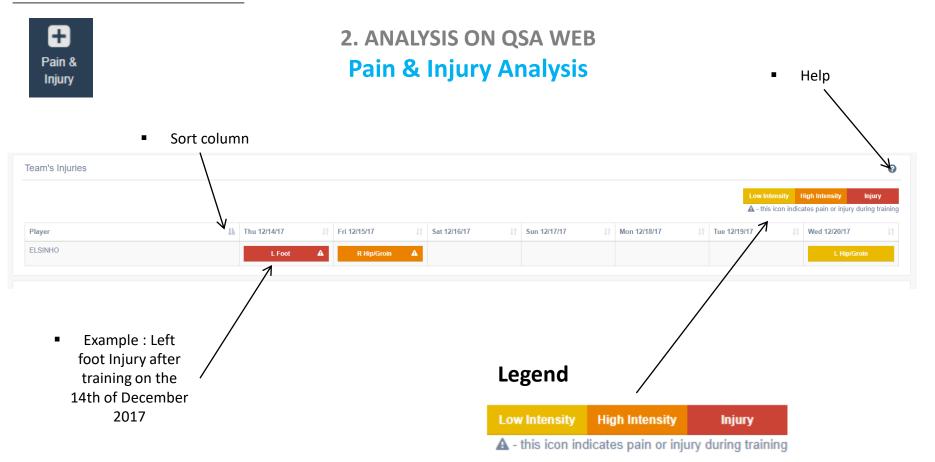
 See instantly for each athlete if data is good, average, or bad



# 2. ANALYSIS ON QSA WEB Pain & Injury Analysis

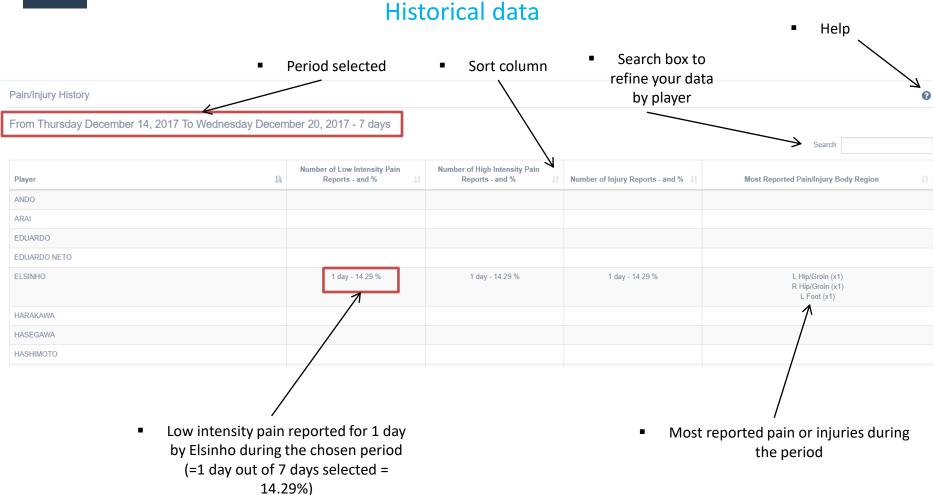


Select a date and a period. Here, last week data from 20/12/2017





# 2. ANALYSIS ON QSA WEB Pain & Injury Analysis





# 2. ANALYSIS ON QSA WEB Export Data

•	SELECT TEAM			
	CELECT DI AVED			
▼	SELECT PLAYER  You can select "All team" or a given player			
•	SELECT TEAM DATA TYPE			
	Between "Team Average Report" or "Player by Player Report" Note: This filter won't be selectable if you selected a given player on the Player filter.			
•	SELECT DATE RANGE			
	DOWNLOAD in Excel Format !			
	<b>v</b>			