

#MakeithAPPen

EFSA Hackathon



Sprint Team | Parma | 24.09.2016



Focus & App specifications

What are the project fundamentals?

Focus

our milestones

1. **EFSA on app:** an app that offers all efsa.europa.it contents to give users the possibility to explore EFSA contents on every device.

3. **Personalization:** an app that can learn and adapt based on the user's perspective by collecting feedback and providing a personal section with dashboards, custom graphs and notifications.

2. **User Experience:** an app that delivers navigation designed to be easy and intuitive to facilitate consultation of all EFSA information and the contents of register of questions section.

4. **Searches:** an app that offers new way to search for information and provide the best system to find contents to easily feed user's curiosity.

5. **Flexible:** an app that can easily be scaled to every OS without the need to rewrite code for every platform (android, iOS, Windows phone)

Specifications

technical app specifications

Framework	Xamarin
OS Compatibility	<ul style="list-style-type: none">• Android 7.0 (Nougat) & lower• iOS 10 (iPhone 5, iPhone 5s, iPhone 6, iPhone 6s, iPad)• Windows universal platform & lower
Device compatibility	Smartphone & Tablet
DB Architecture	Amazon AWS, Mysql



Specifications

why Xamarin framework?

Native Android, iOS,
and Windows apps

Native User Interfaces

Native API Access

Native Performance



C#

development and
maintenance

75%

code compatibility
across all platforms

Faster time-to-market: minimal duplication of work

No limits: embraces the unique features of each platform
with one core logic shared

Fewer bugs: less code means less bugs





Navigation Architecture Analysis

What did we do to build this app?

Contents analysis

Navigation & Information architecture

3
types
of content



General: "topic", "subject area", "journal" and
"news" and every content available into efsa.europa.eu

Register: all contents (questions, mandates...)
serchabled by user in EFSA's Register of questions (RQ)

User: all content is saved by the user during daily
navigation in website and app



3
app areas



- multiselect
- registration needed
- active glossary view
- OCR function
- Set Notification
- save in my Register
- open search page
- open filter page
- delete
- edit element

VIEW type
_content viewed 1
_content viewed 2
...

MENU

correlated dx lateral menu activated by swipe

full viewport up-bottom opening
enter into next view
bottom-up opening full viewport

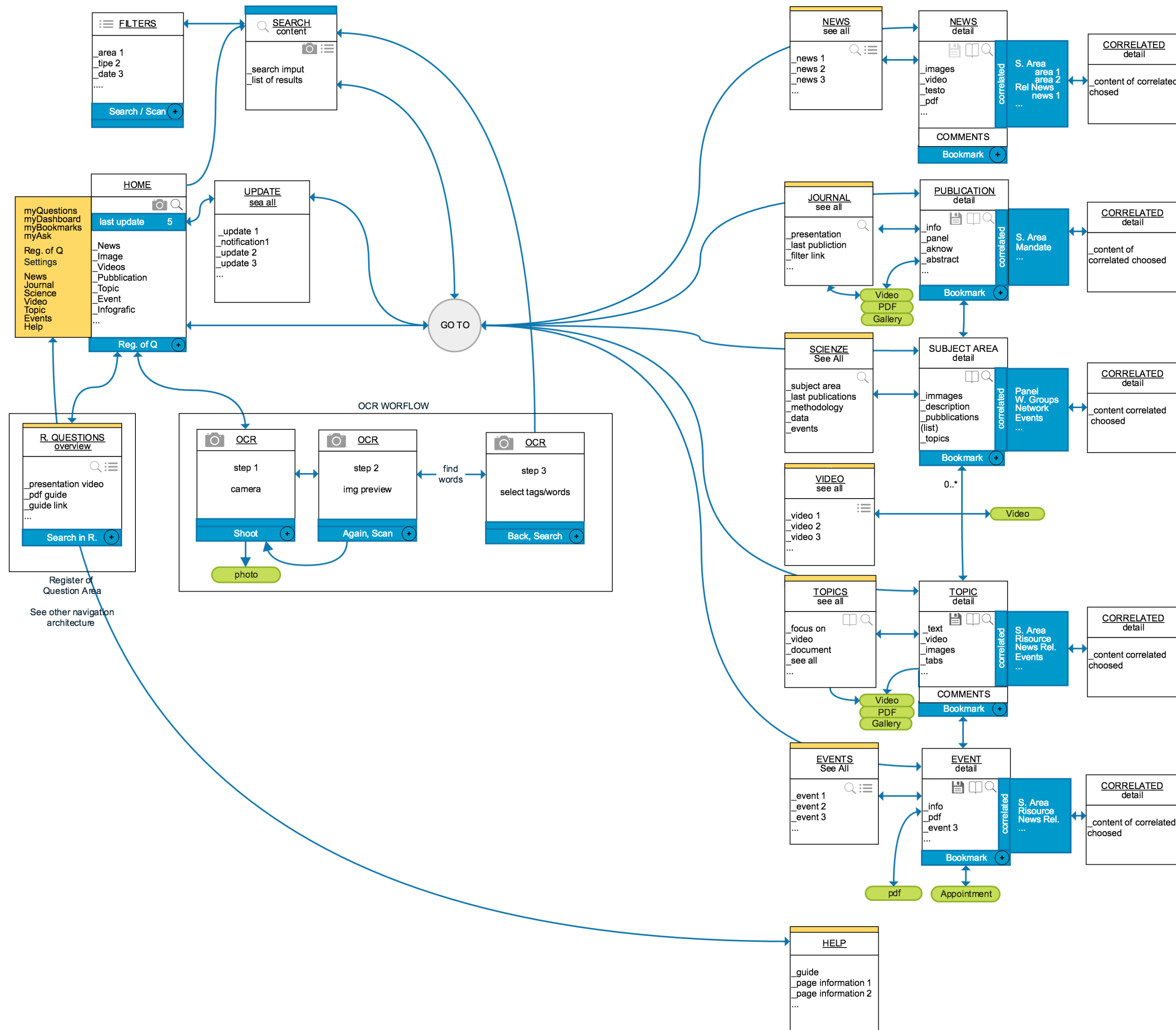
content downloaded
COMMENTS
call to action

page linked to menu
pop-up



general area

8



Mapped: all contents and sections are more important in the online website.

Evaluated: the relations between every content type into efsa.europa.eu

Studied: the most useful functionalities for a user to provide him/her with the best experience of EFSA contents.

Defined: the best navigation design and architecture in realtion to the complexity of all EFSA's information



- multiselection
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VIEW type
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...

MENU

correlated
dx lateral
menu
activated by
swipe

full viewport
up-bottom opening

enter into
next view

bottom-up opening
full viewport

content
downloaded

COMMENTS

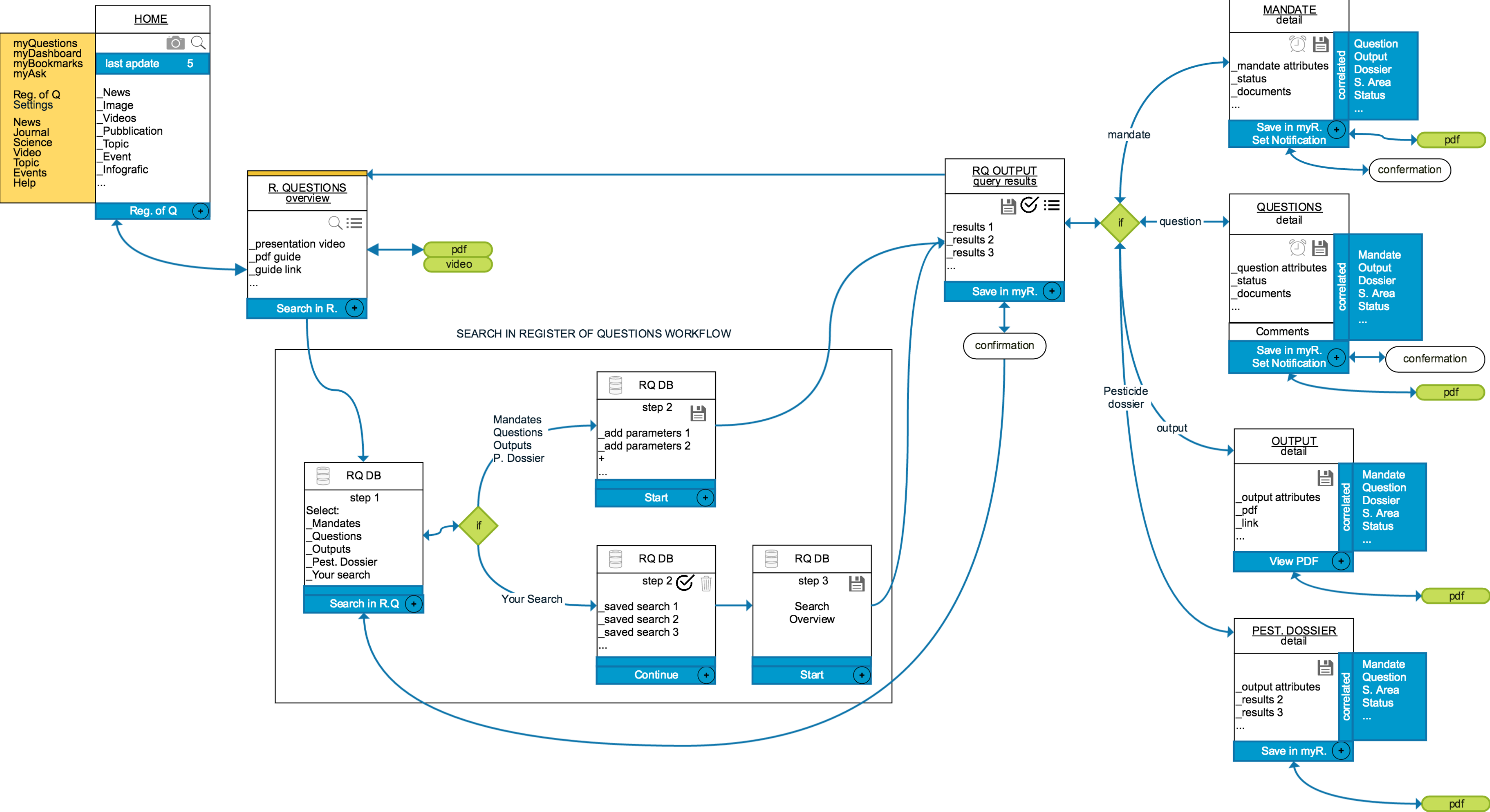
call to action

page linked to menu

pop-up



register of question
area



- multiselection
- registration needed
- active glossary view
- OCR function
- Set Notification

- save/remove in my Register
- open search page
- open filter page
- delete
- edit element

VIEW type
_content viewed 1
_content viewed 2
...

MENU

correlated
dx lateral
menu
activated by
swipe

full viewport
up-bottom opening

enter into
next view

bottom-up opening
full viewport

content
downloaded

COMMENTS

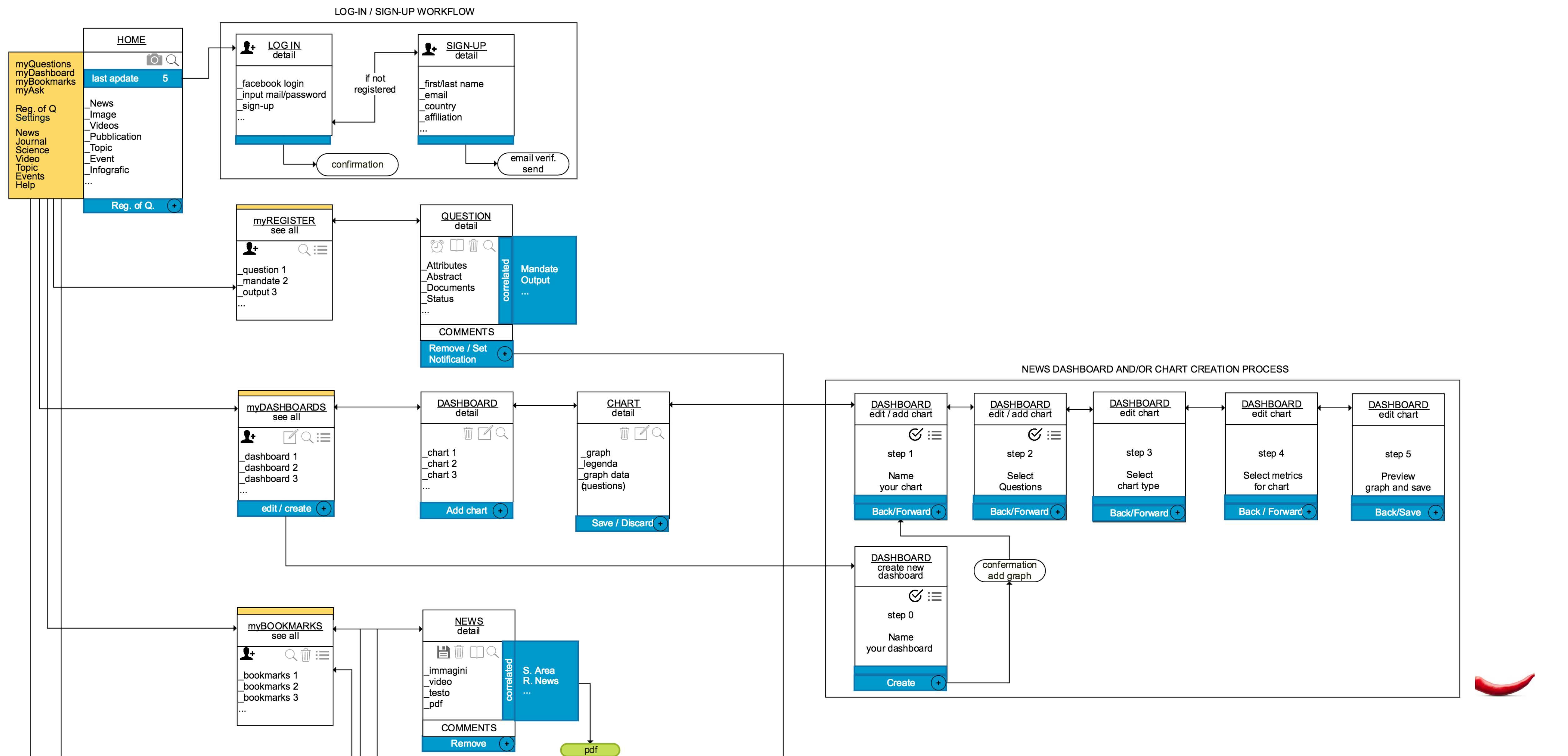
call to action +

page linked to menu

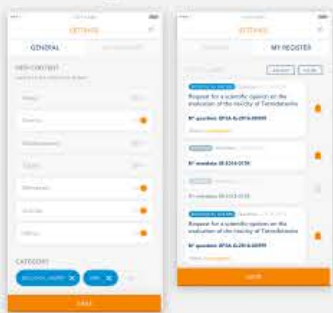
pop-up



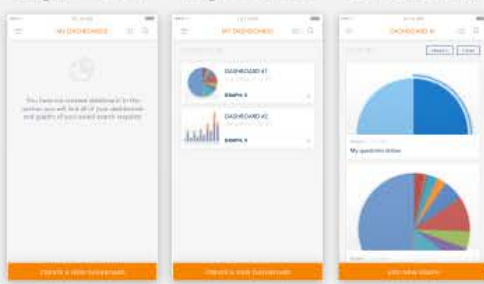
user area



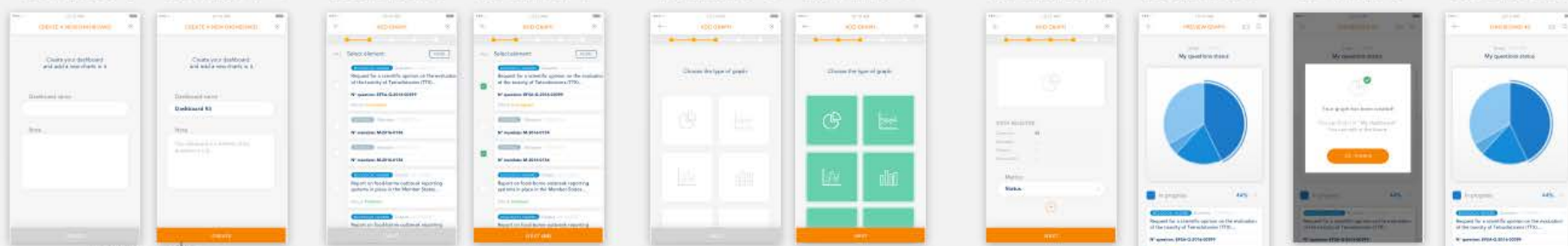
settings 1 sett...s 2



my...oard my...ards das...d #1



new...rd 1 new...rd 2 new...d 3 new...d 4 new...rd 5 new...d 6 new...rd 7 new...d 9 new...10 das...tails



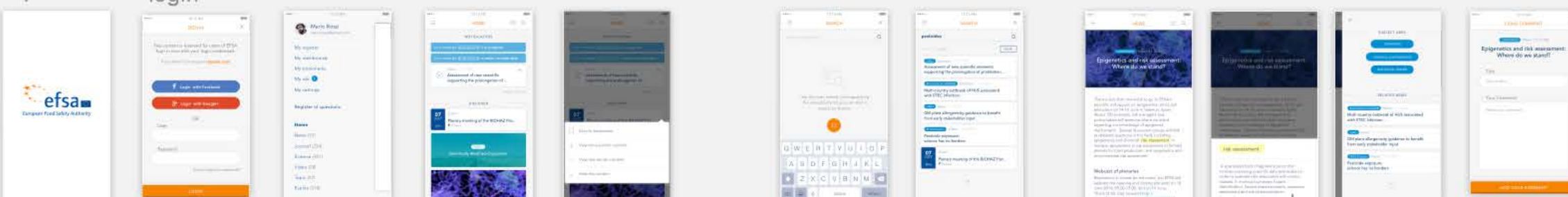
new...ale



new...ph1 new...ph2



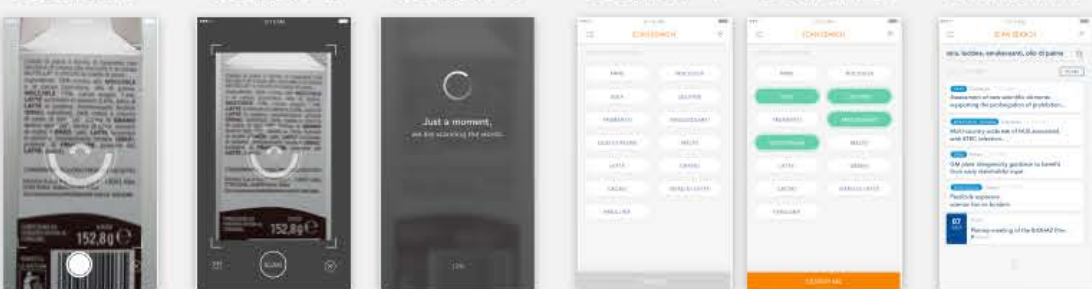
Splash login Menu Discover ove...tent Search 1 Search 2 Sin...ticle Sin...sario Sin...ated leav...ent



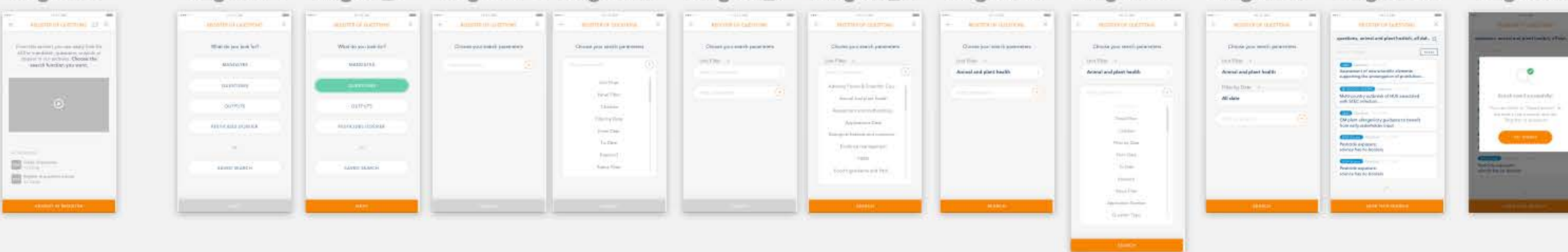
sav...arks



OC...an 1 OC...an 2 OC...an 3 OC...an 4 OC...an 5 OC...an 6



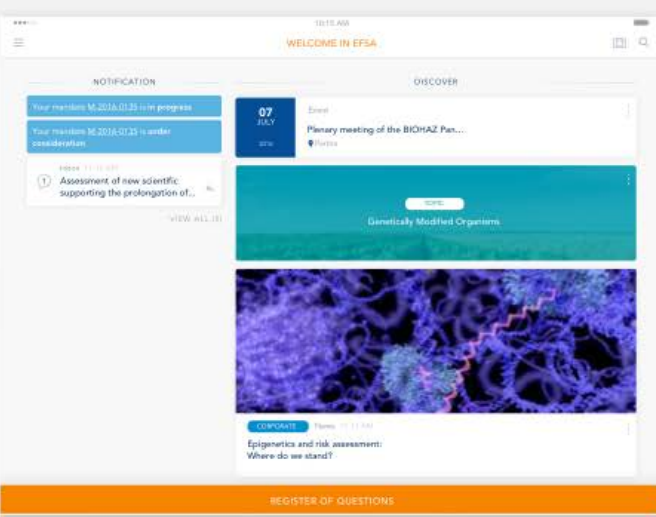
Reg...s 0 Reg...ns 1 Reg...1_2 Reg...ns 2 Reg...s 3 Reg...3_1 Reg...3_2 Reg...s 4 Reg...s 5 Reg...s 6 Reg...ns 7 Reg...s 8



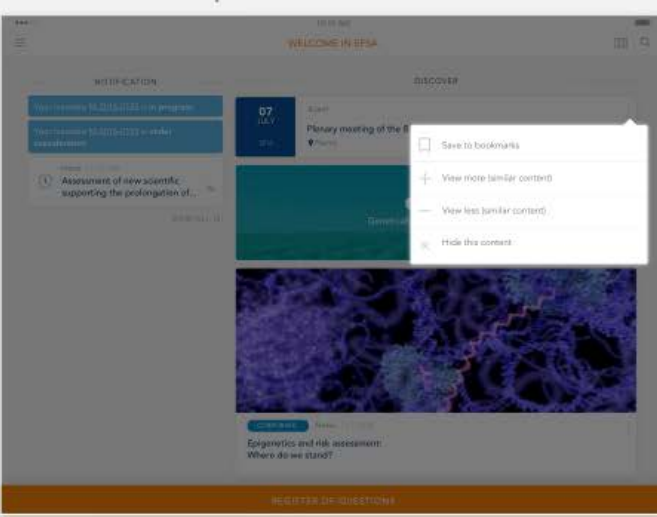
menu



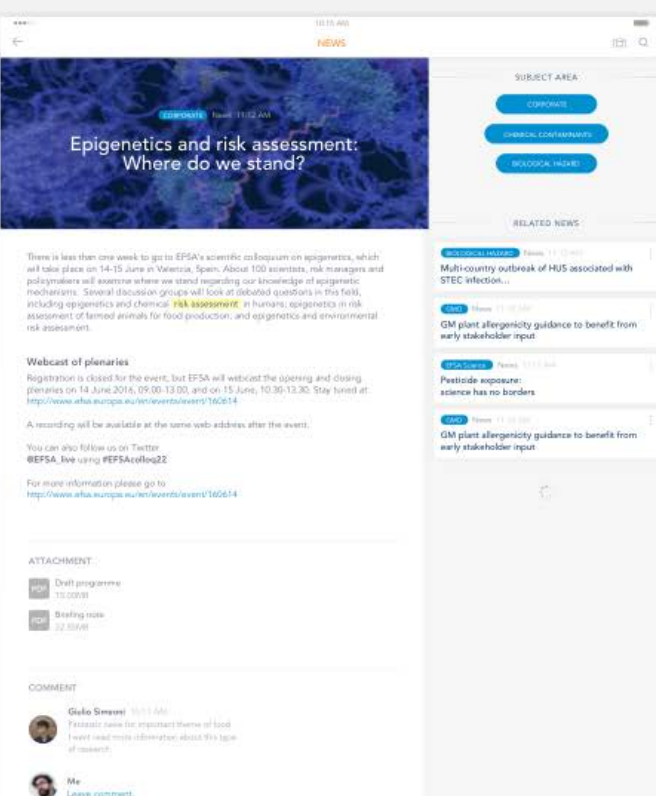
home



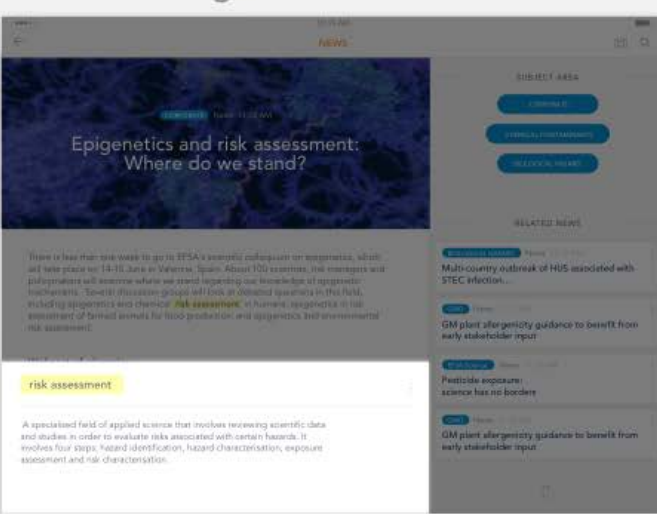
home more options



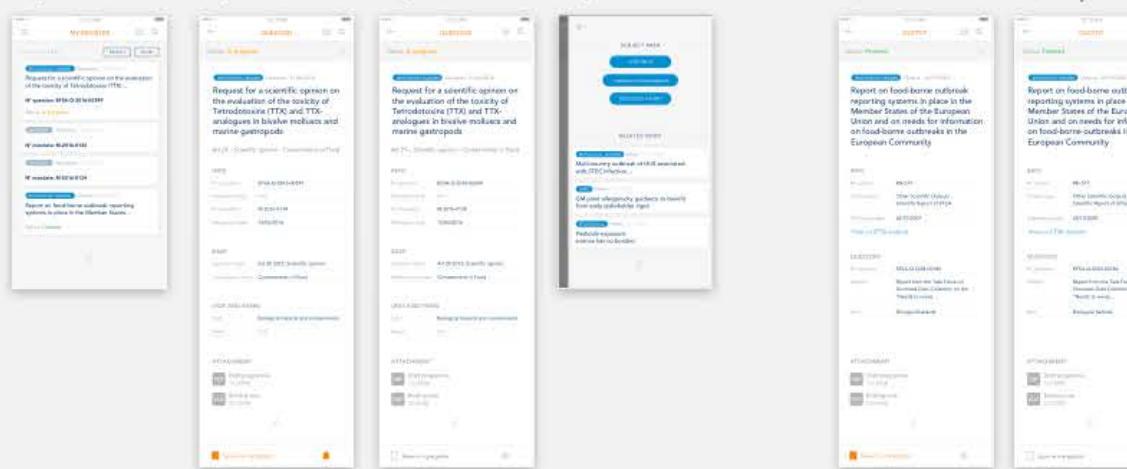
details news



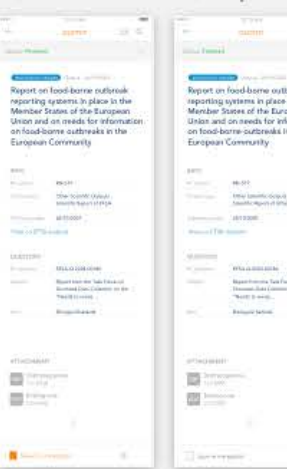
details news glossario



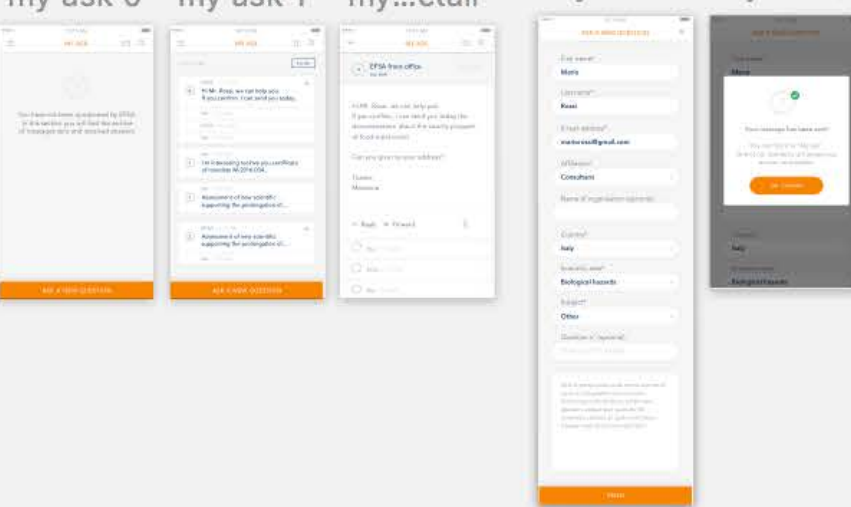
Que...all Que...ved Question Que...late



Out...ved Output

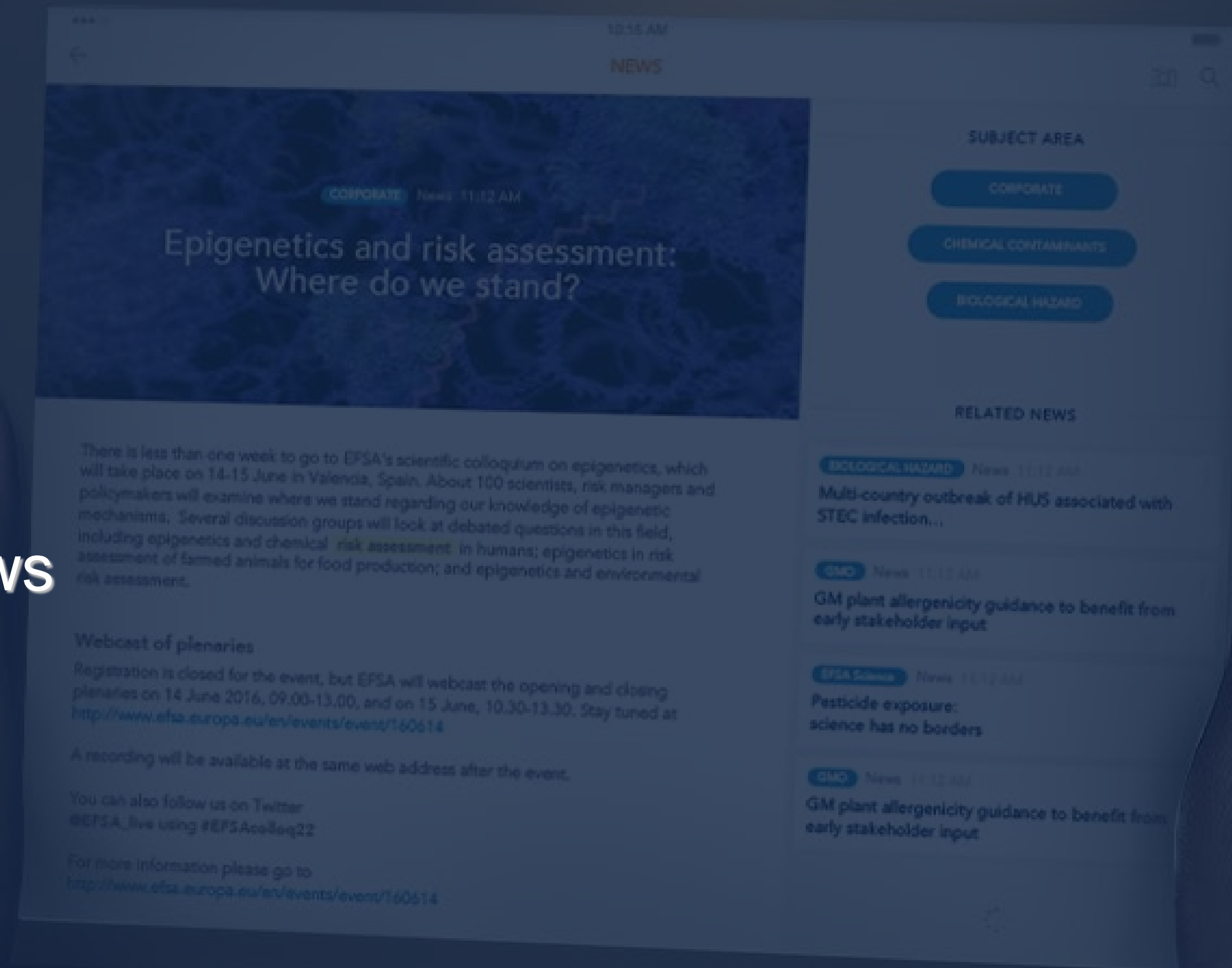


my ask 0 my ask 1 my...etail my ask 2 my ask 3



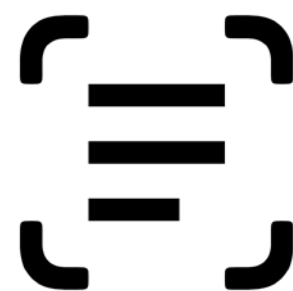
EFSA's app

Features and views



Features

overview...



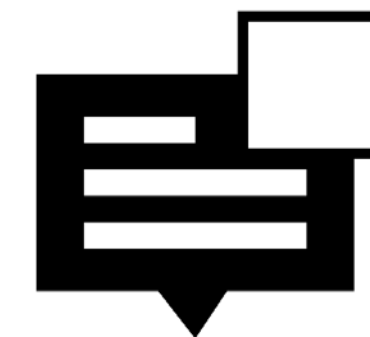
OCR



smart home



cloud
search



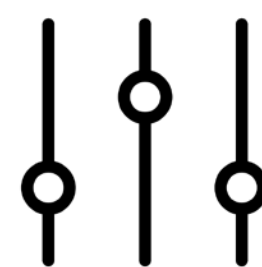
comments



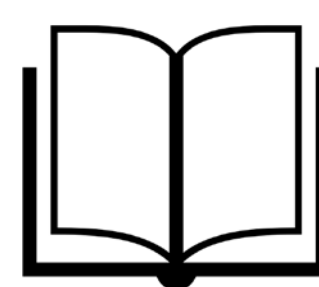
personal
notifications



dashboard



filters



smart
glossary



bookmarks



request
information



Homepage

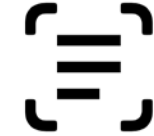
home become smart



searches



smart
home



OCR



general area

Notifications: on the top, to have an immediate focus on every user's personal updates

Functionalities: the more important tools are placed on the top menu bar to be easily found in any moment of navigation

Content: each content type has its own specific layout that is highlighted

Content personalisation: user can choose which type of content will be more or less visible in the home page.



RQ: has a dedicated call to action in the home page that is quickly accessible



News

best read ever


smart glossary



comments


personal
notifications

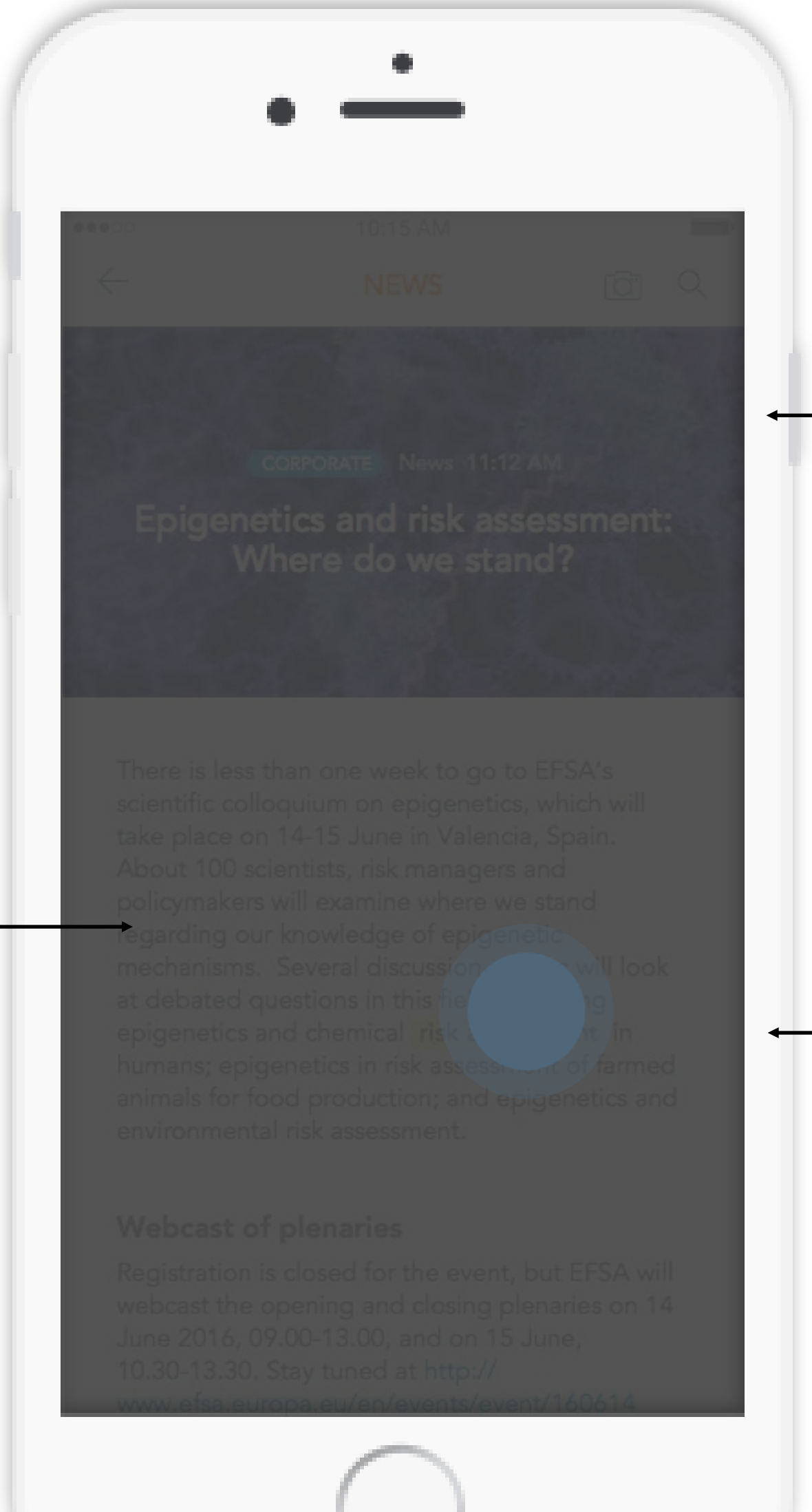

general area

Information design is organised to facilitate reading with an elegant design.

Related contents are in a dedicated menu accessible with a simple swipe to the left of the screen.

 **Disqus** service is integrated to add, manage and moderate comments

Smart glossary gives a quick definition of highlighted words in the text.



Home & news

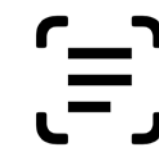
tablet version



searches



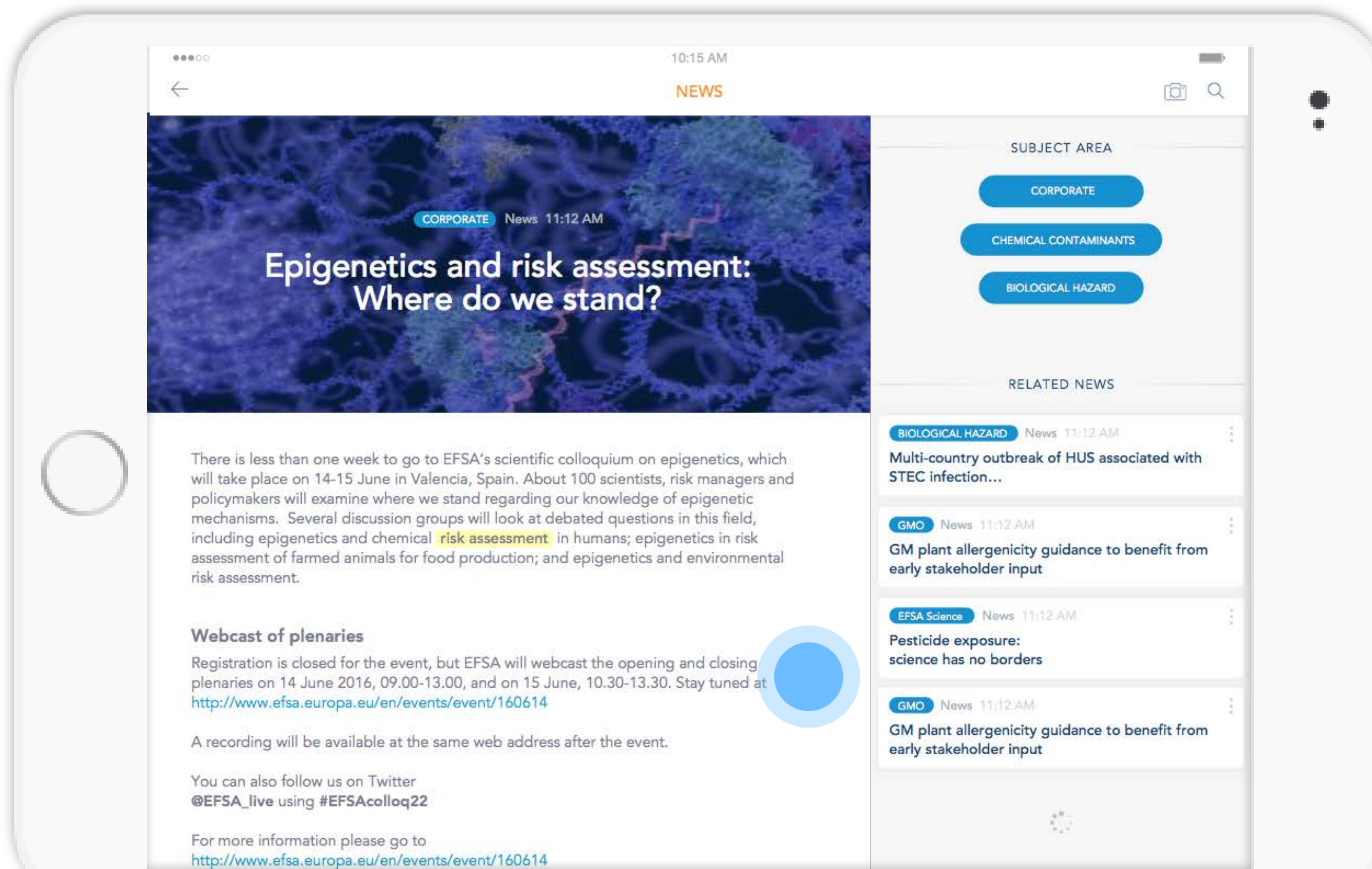
smart home



OCR

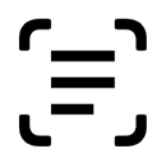


general area



Searches

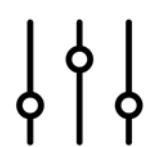
find what you want as you want



OCR



searches



filters

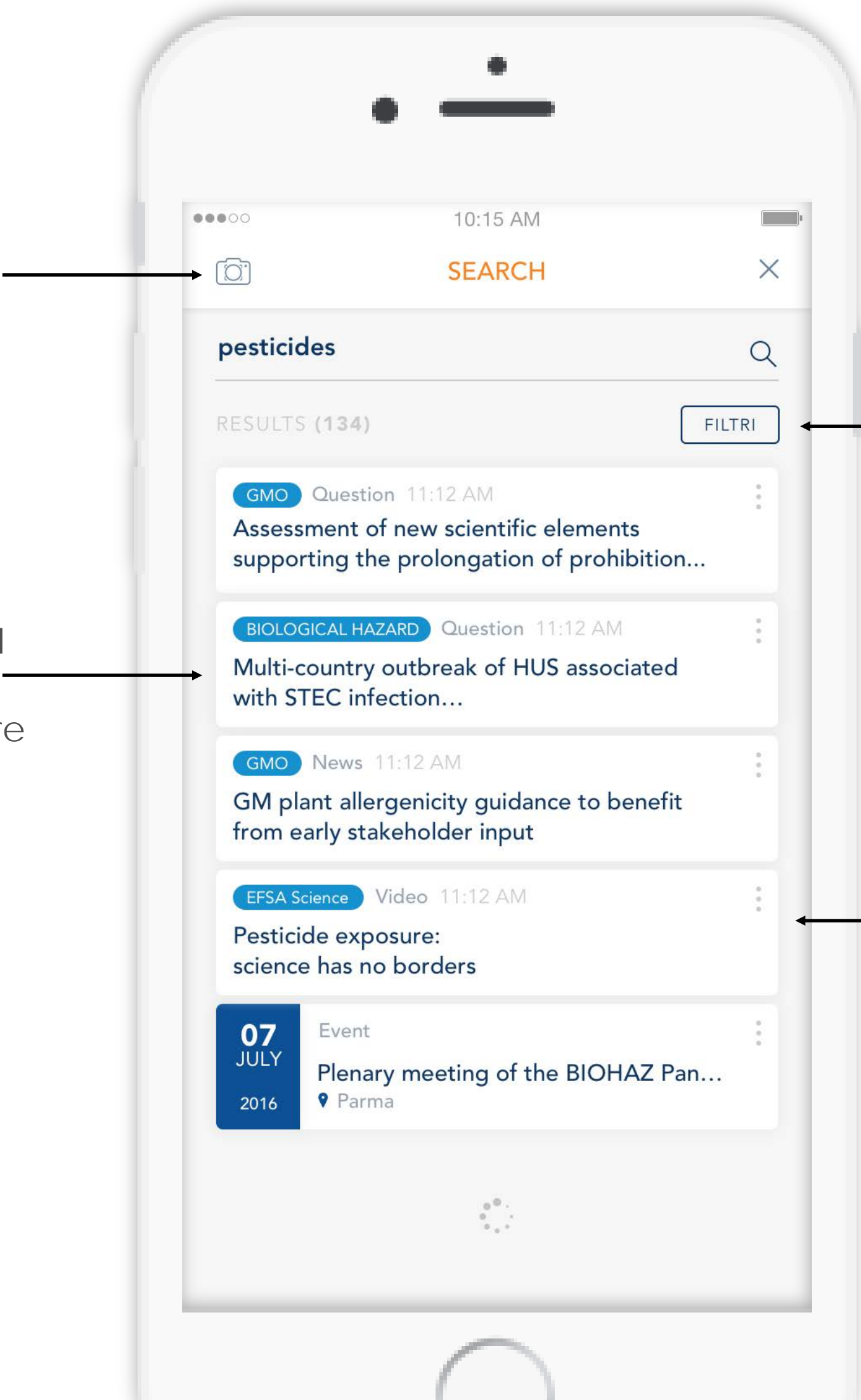


general area



OCR is a different way to search EFSA's contents

Card layout is customized for every kind of content and it's optimised to show more results at the same time



Filters help user to filter all different arguments (subject area) or type of content (News, Video...)

Algolia is the search engine in the EFSA app. It provides advanced search features like:



- auto-complete
- instant results page
- customizable search
- 100% SLA
- ...



OCR

how does it work?

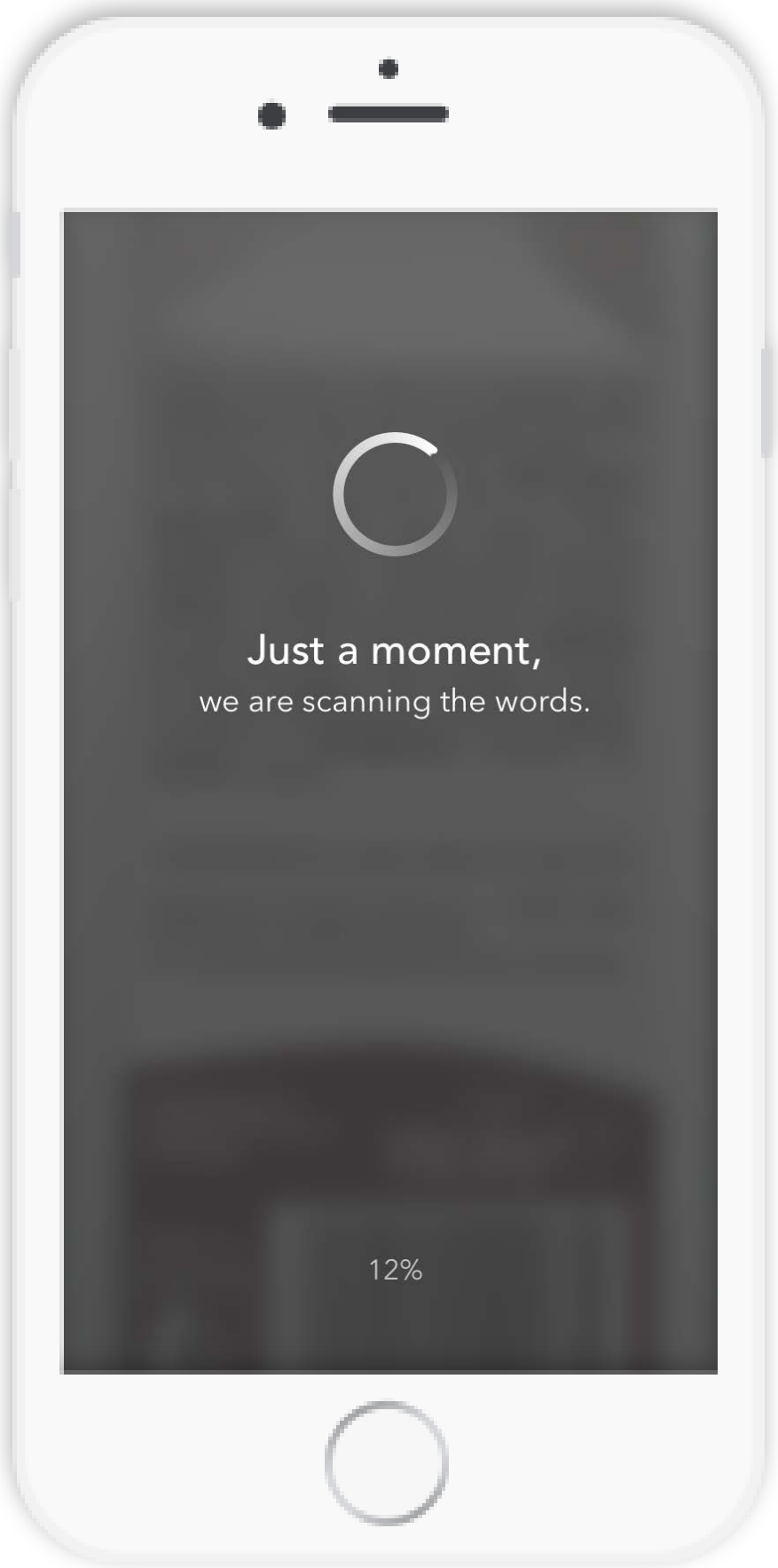


general area



Step 1

take a picture of every text behind food package



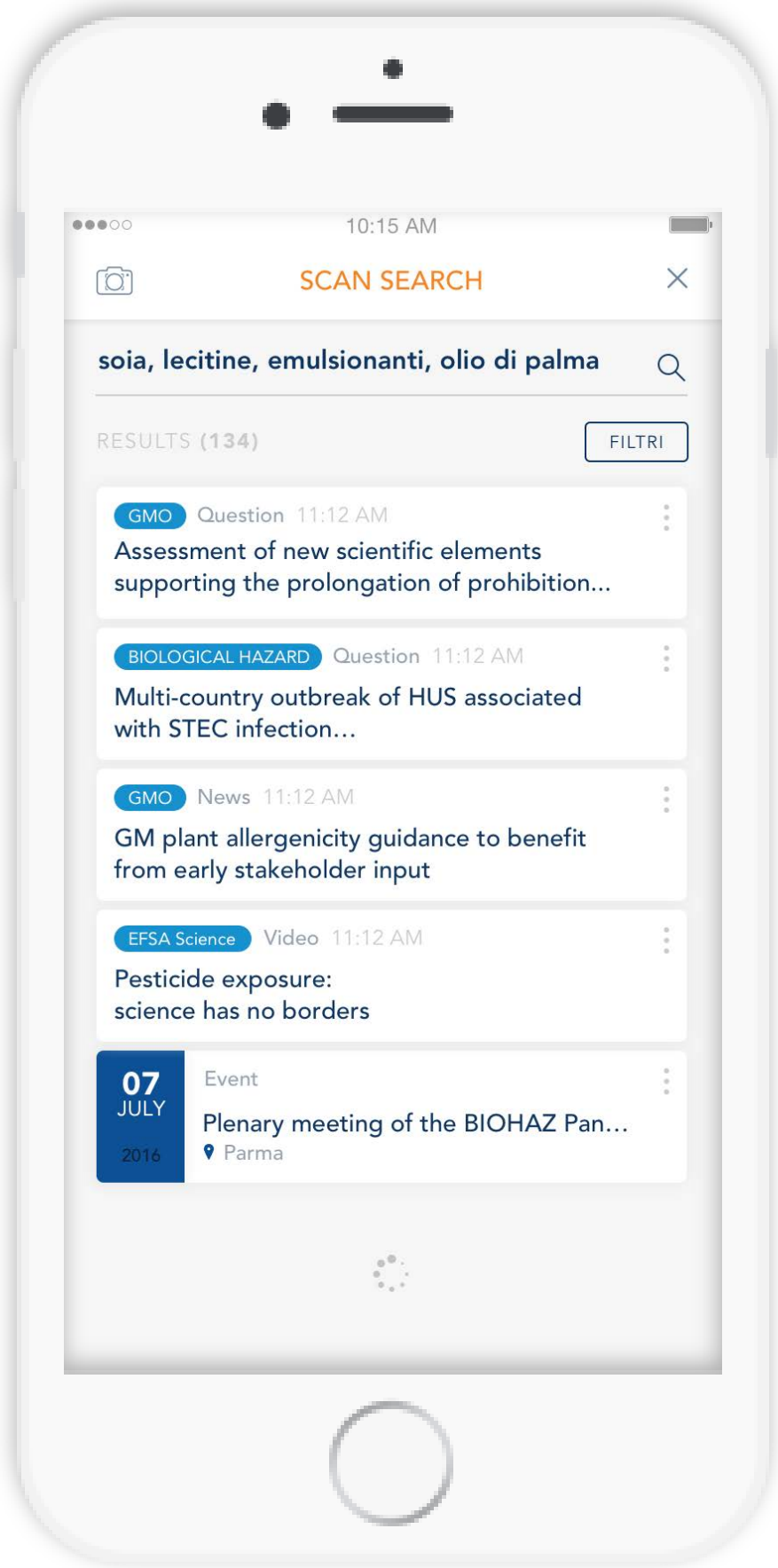
Step 2

confirm your picture and wait for the result




Step 3

select one of the tags found



Step 4

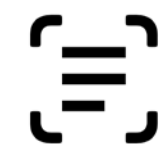
explore EFSA's results linked to the tags chosen 

OCR

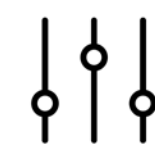
a new way to search



searches



OCR

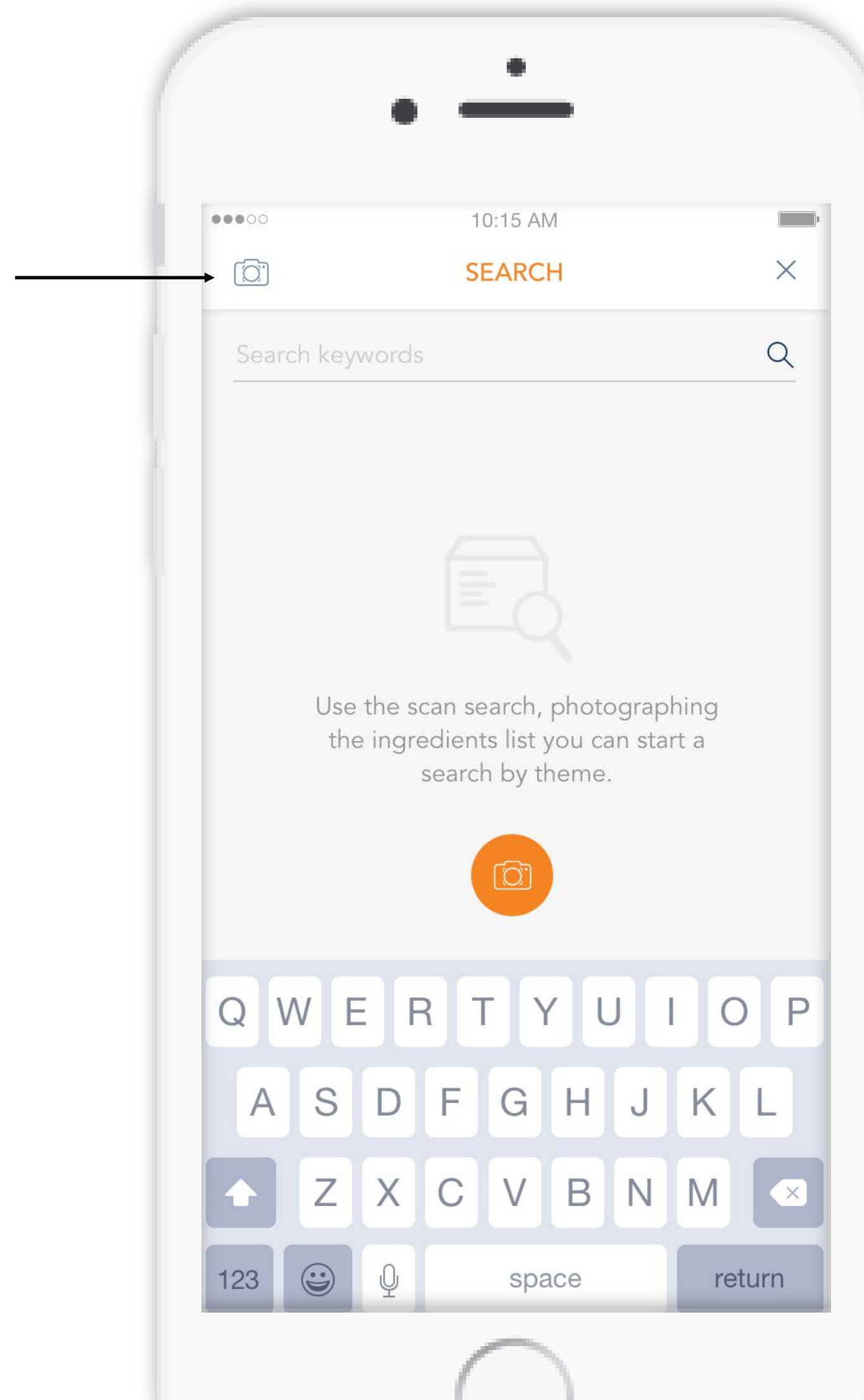


filters



general area

Tesseract is the core of the OCR system, one of the most flexible and popular OCR engines in the world.



Open source is the code of Tesseract, open to be fully customizable

100+ supported languages

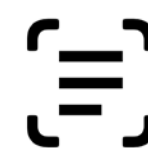


Register of questions

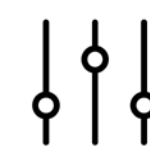
find your questions easily



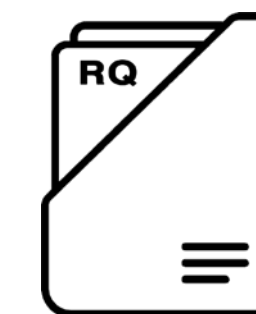
searches



OCR



filters

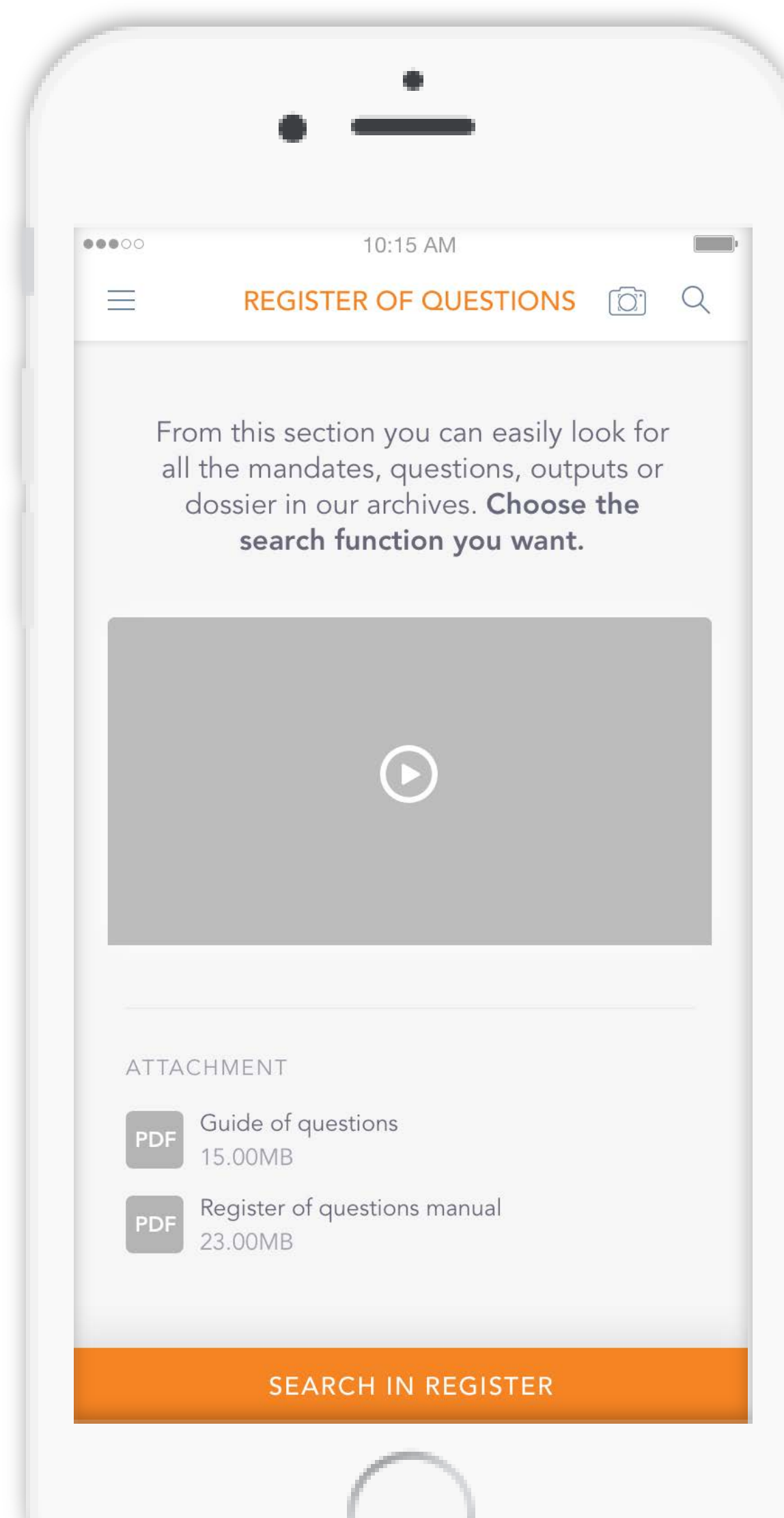


register of question
area

20

Access quickly to register questions from the home page and menu using a dedicated call to action.

Saved searches: users can save all queries (searches) submitted making it easier and faster for future searches.



Interaction: the user experience of content search is optimised for tablet and mobile navigation

Save results: after completing a query into RQ, users can save one or more results in their personal area.



Register of questions

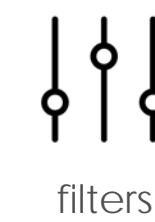
Workflow



searches



OCR

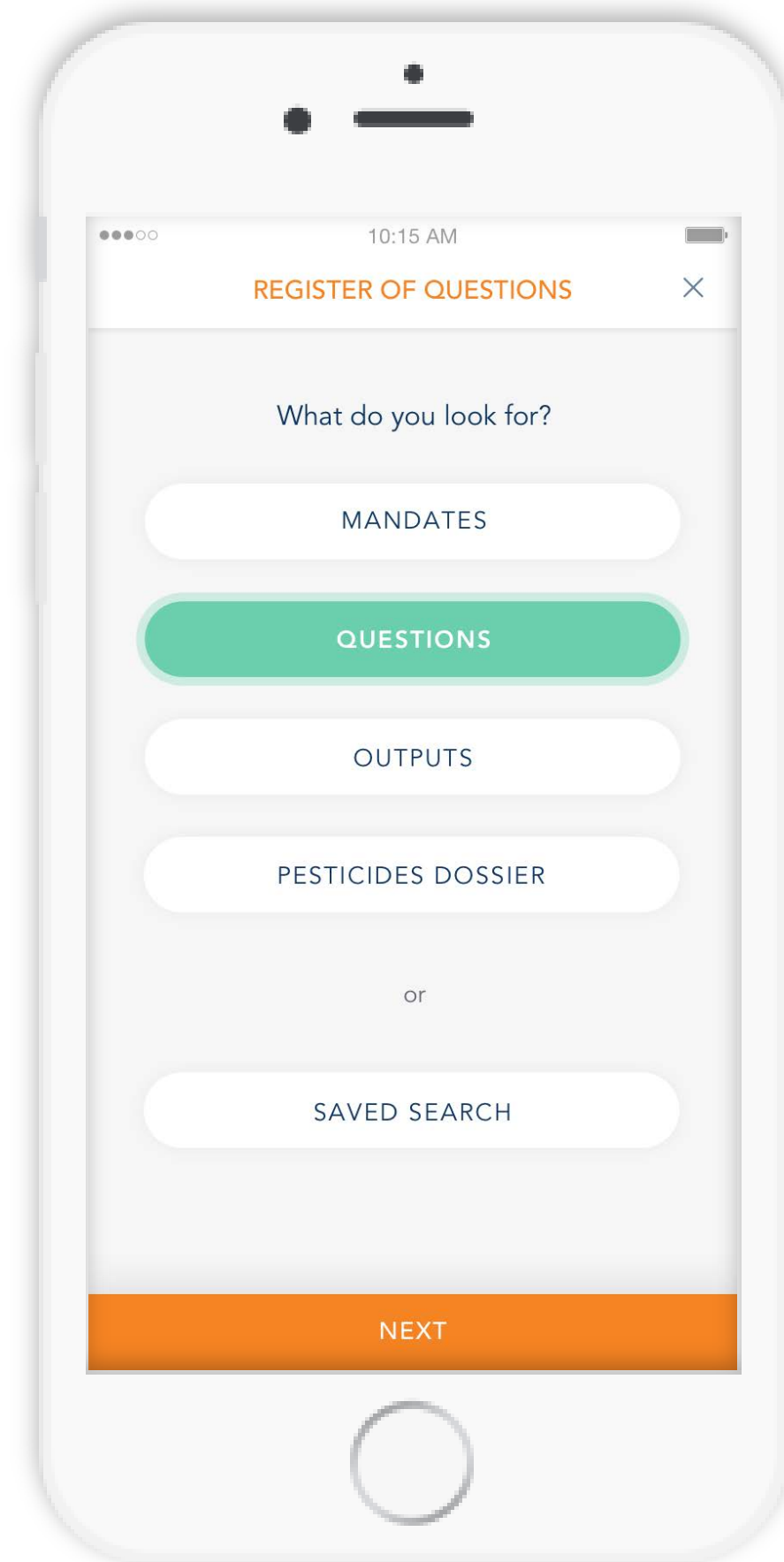


filters



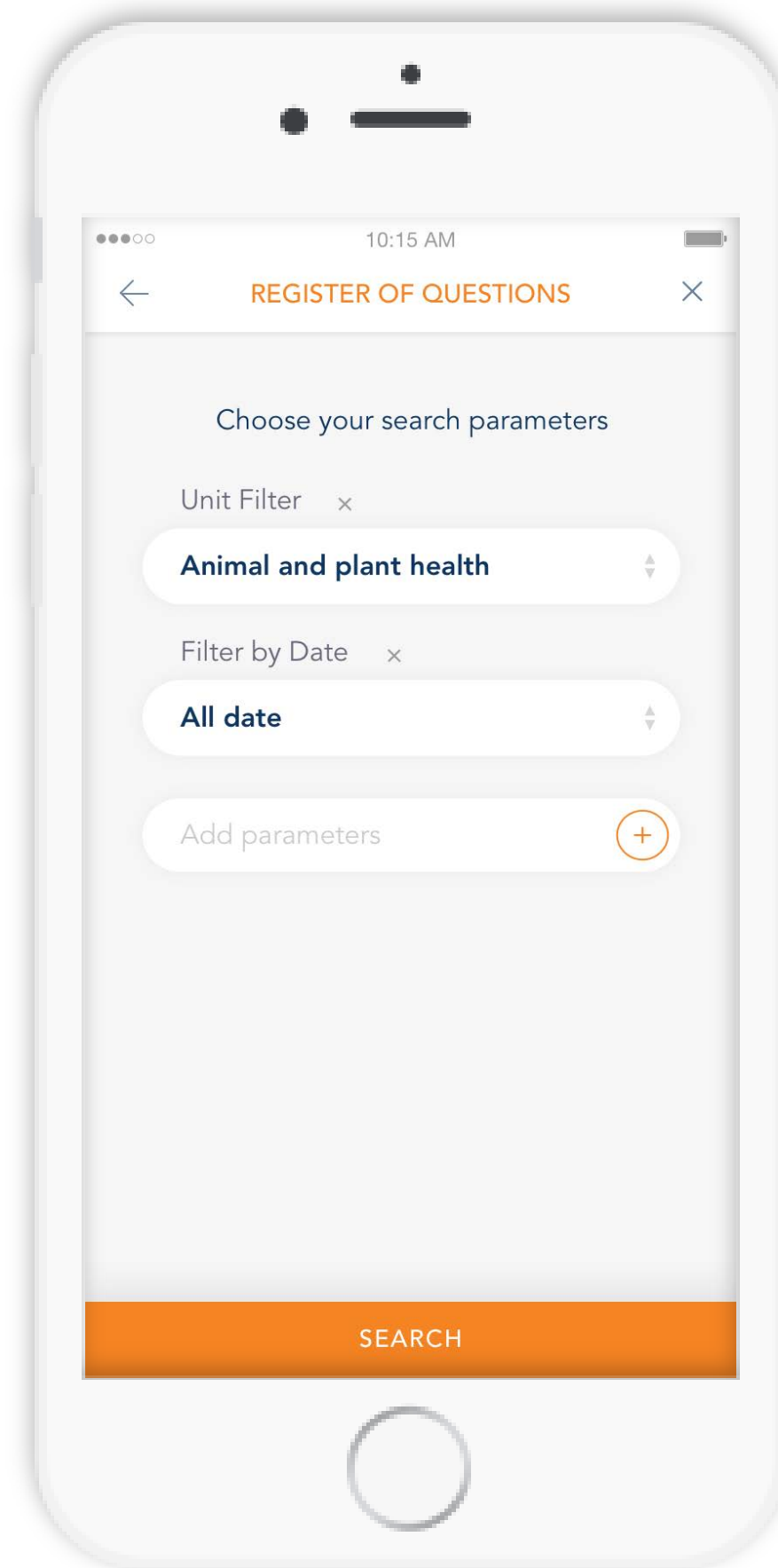
register of question
area

21



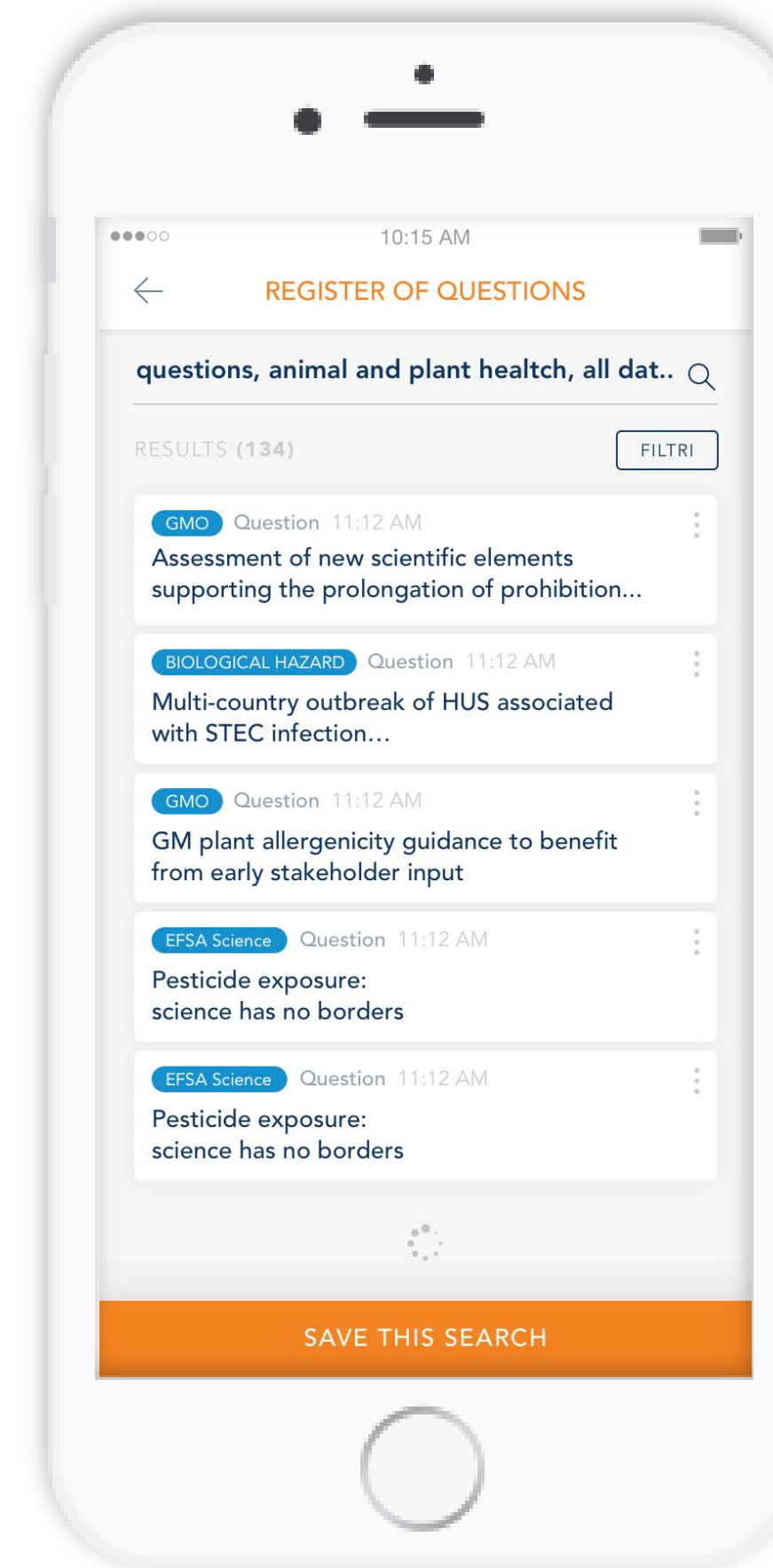
Step 1

select type of content you are
interested in



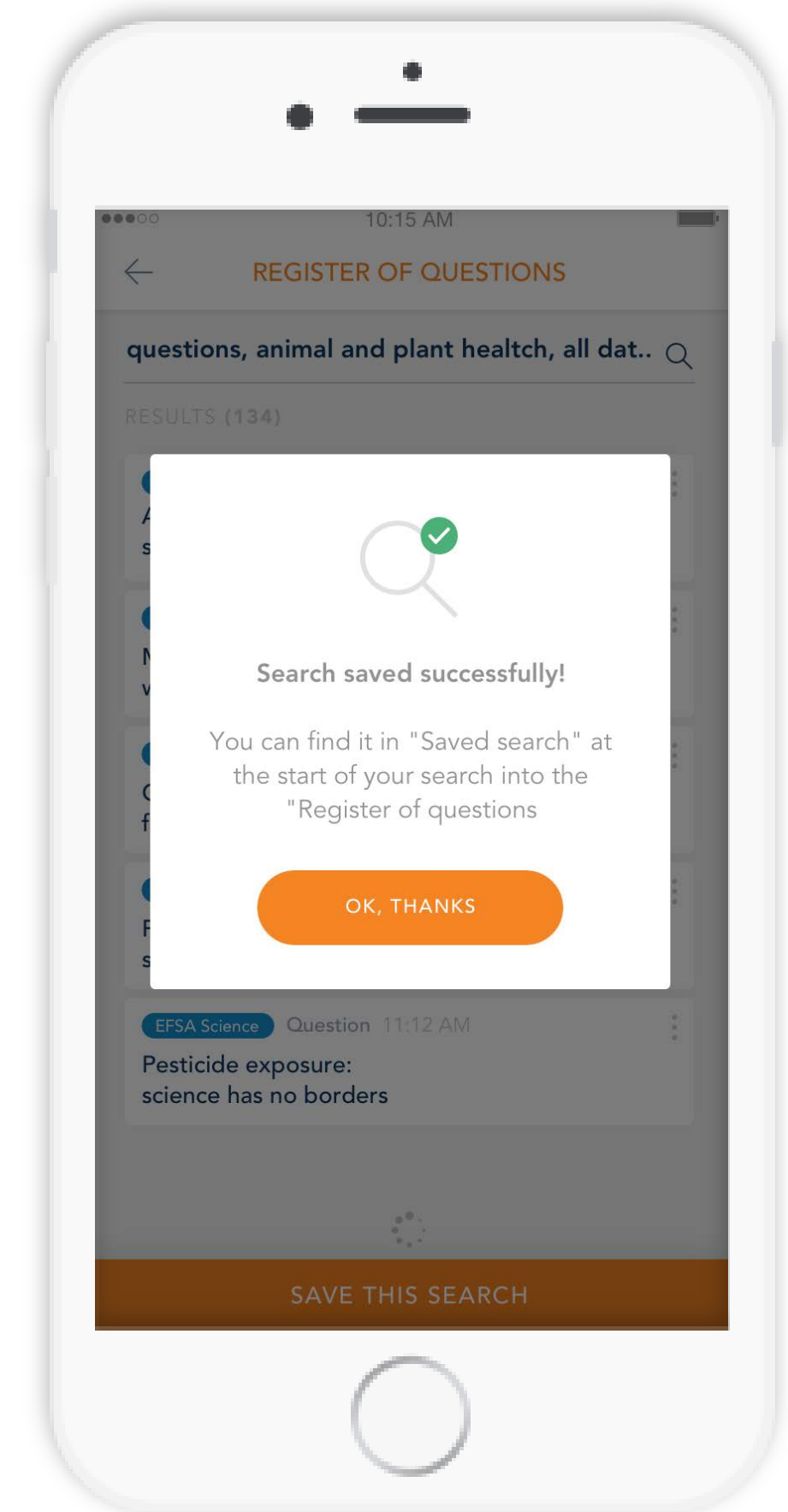
Step 2

add and select the parameters of
your query



Step 3

explore your results and save your query
for next search

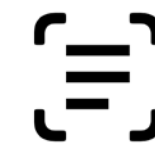


Register of questions

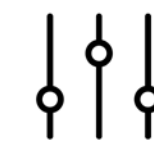
tablet version



searches



OCR

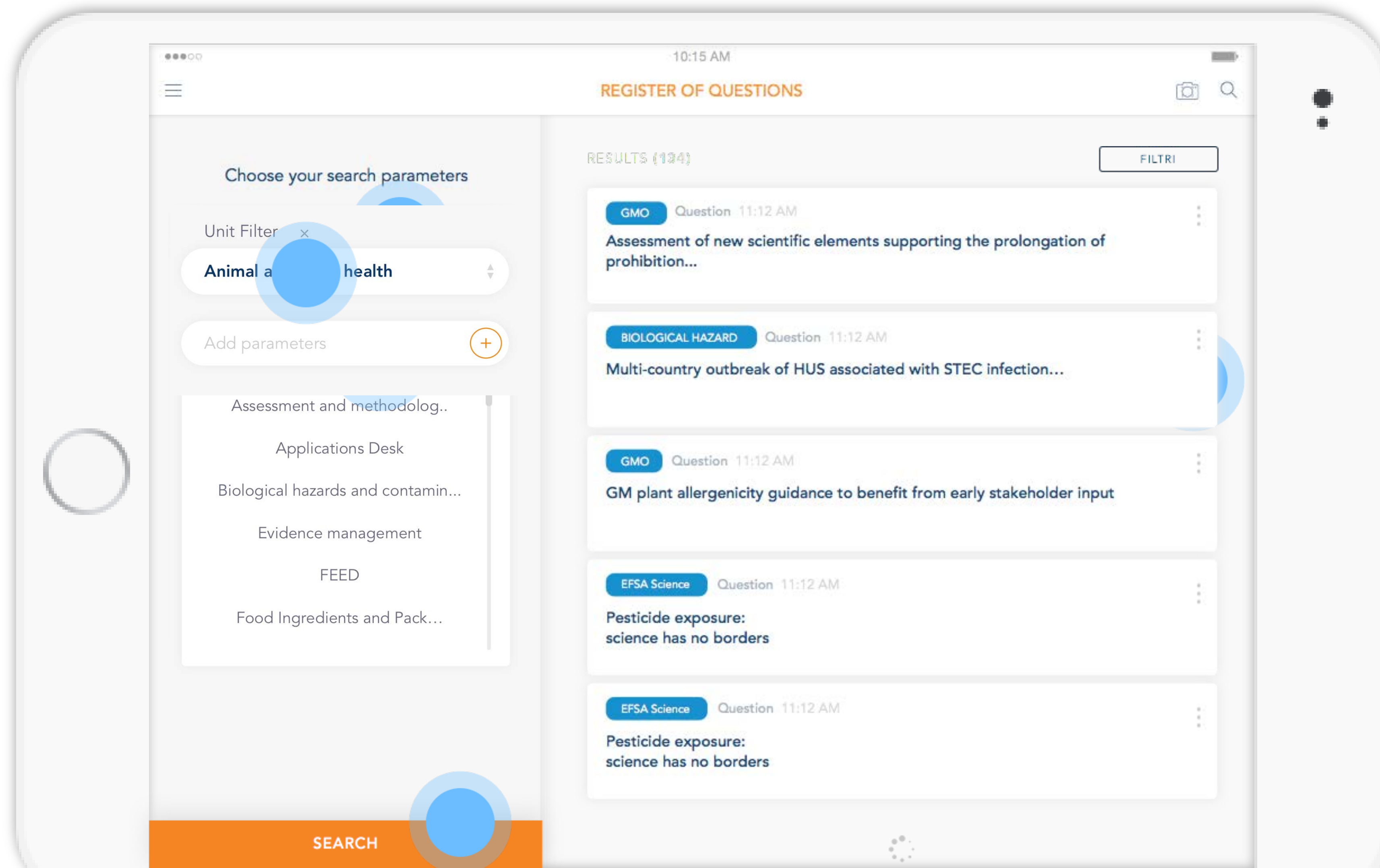


filters



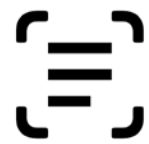
register of question
area

22

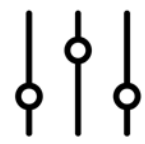




searches



OCR



ilters

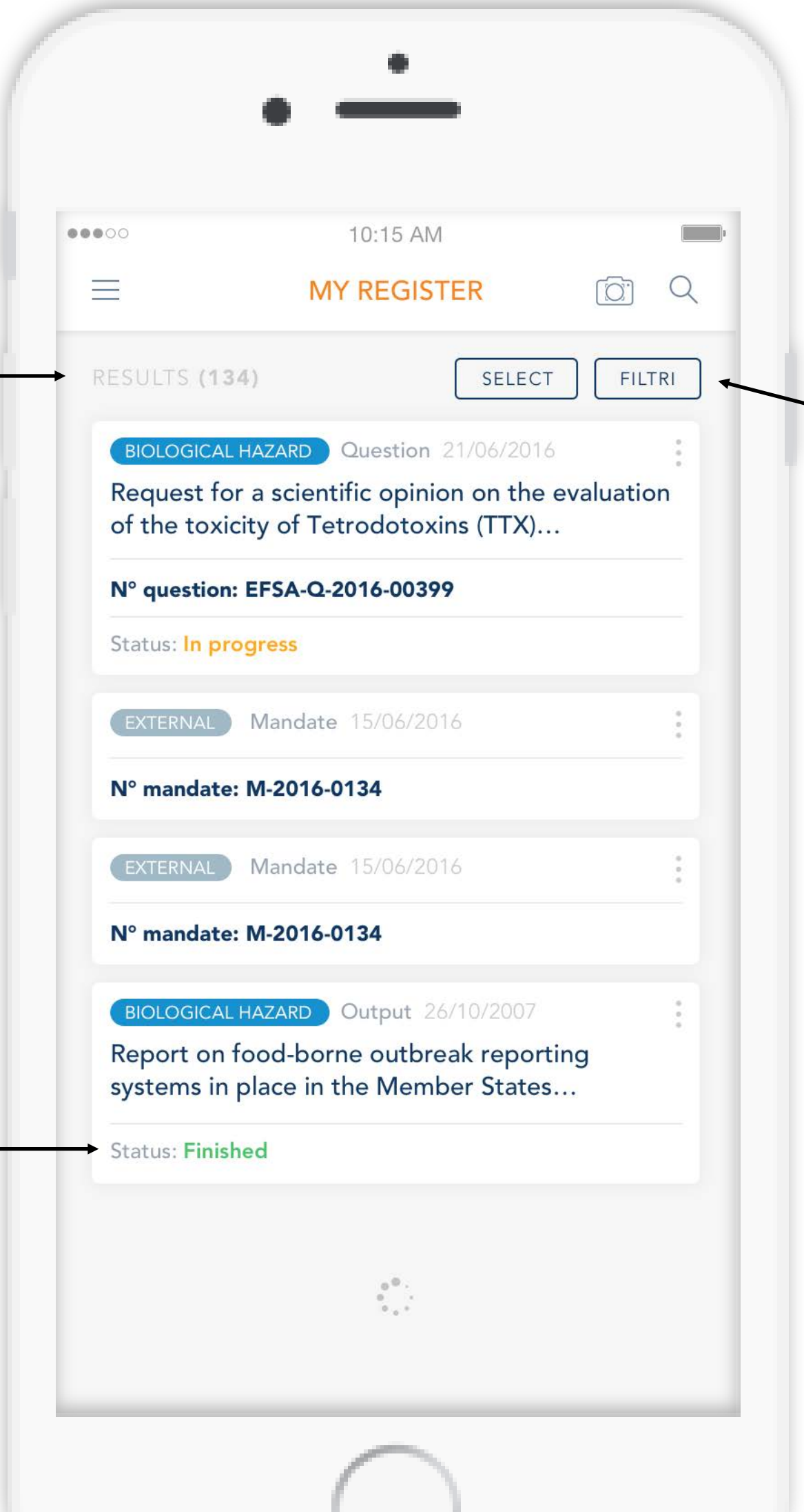


user area

All saved results from Register of question are available in myRegister.

Filters: useful tool to filter mandates, questions, pesticides dossier.

Status: immediately visible in the content card



Question

output detail view



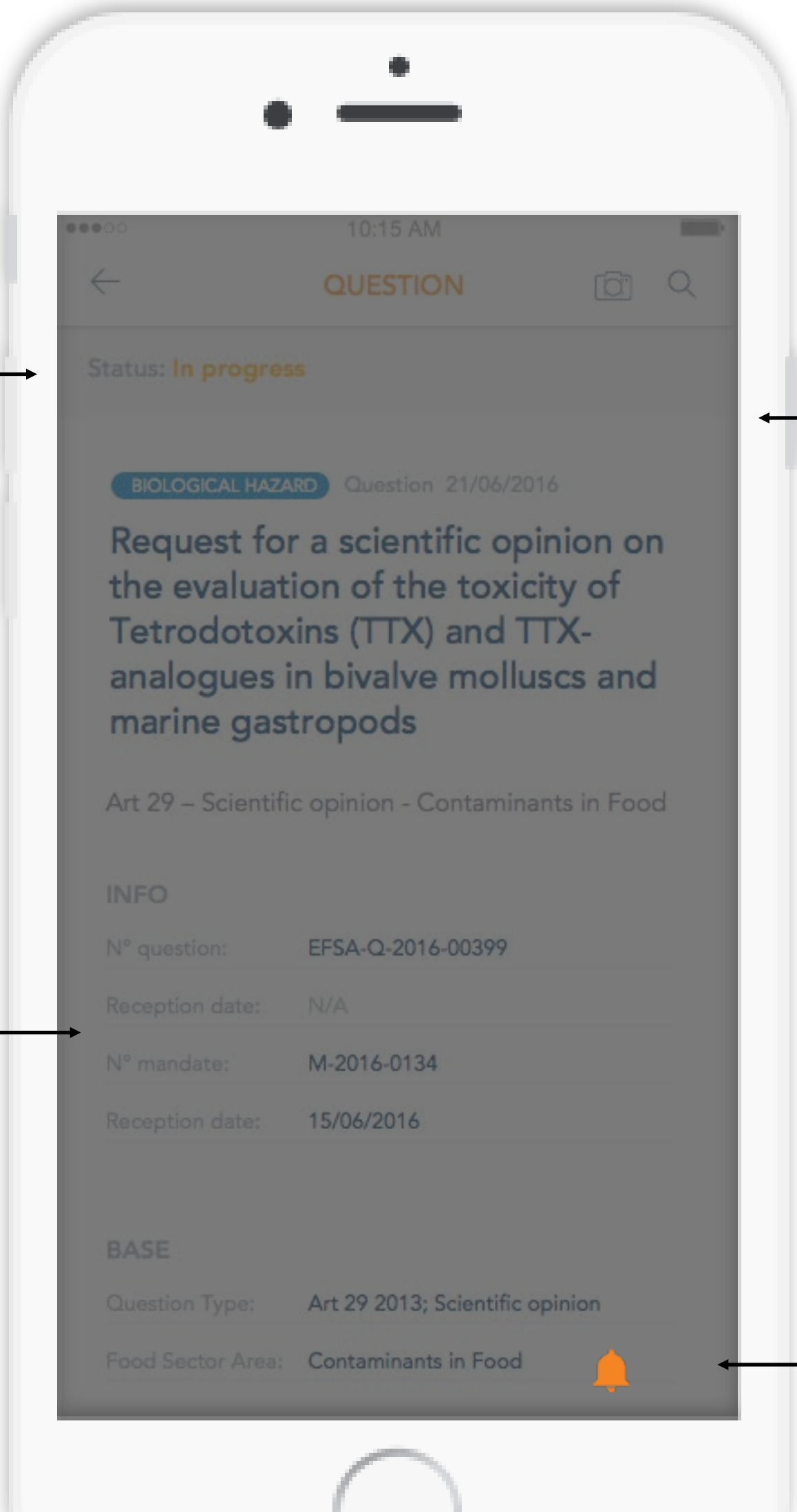
user area

Information is designed

to give a clear and smart overview
of all contents

Status of RQ content is immediately
visible at the enter view

Attachments can be
downloaded or just read in the app
using the pdf reader integrated



Related contents are in a
dedicated menu accessible with a simple
swipe to the left of the screen

Notifications for this content can be
activated simply by tapping this call to
action

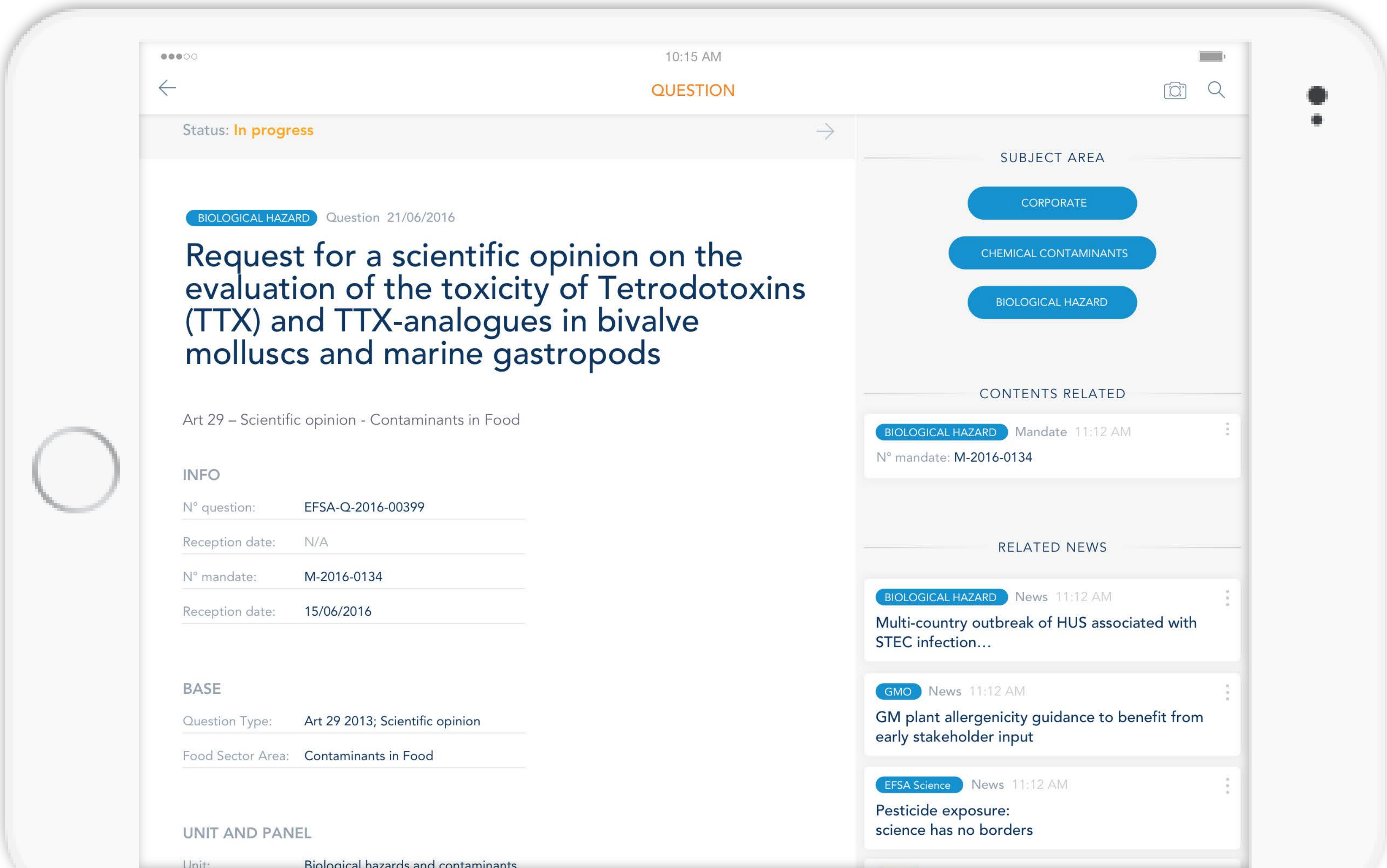




user area

Question

tablet version



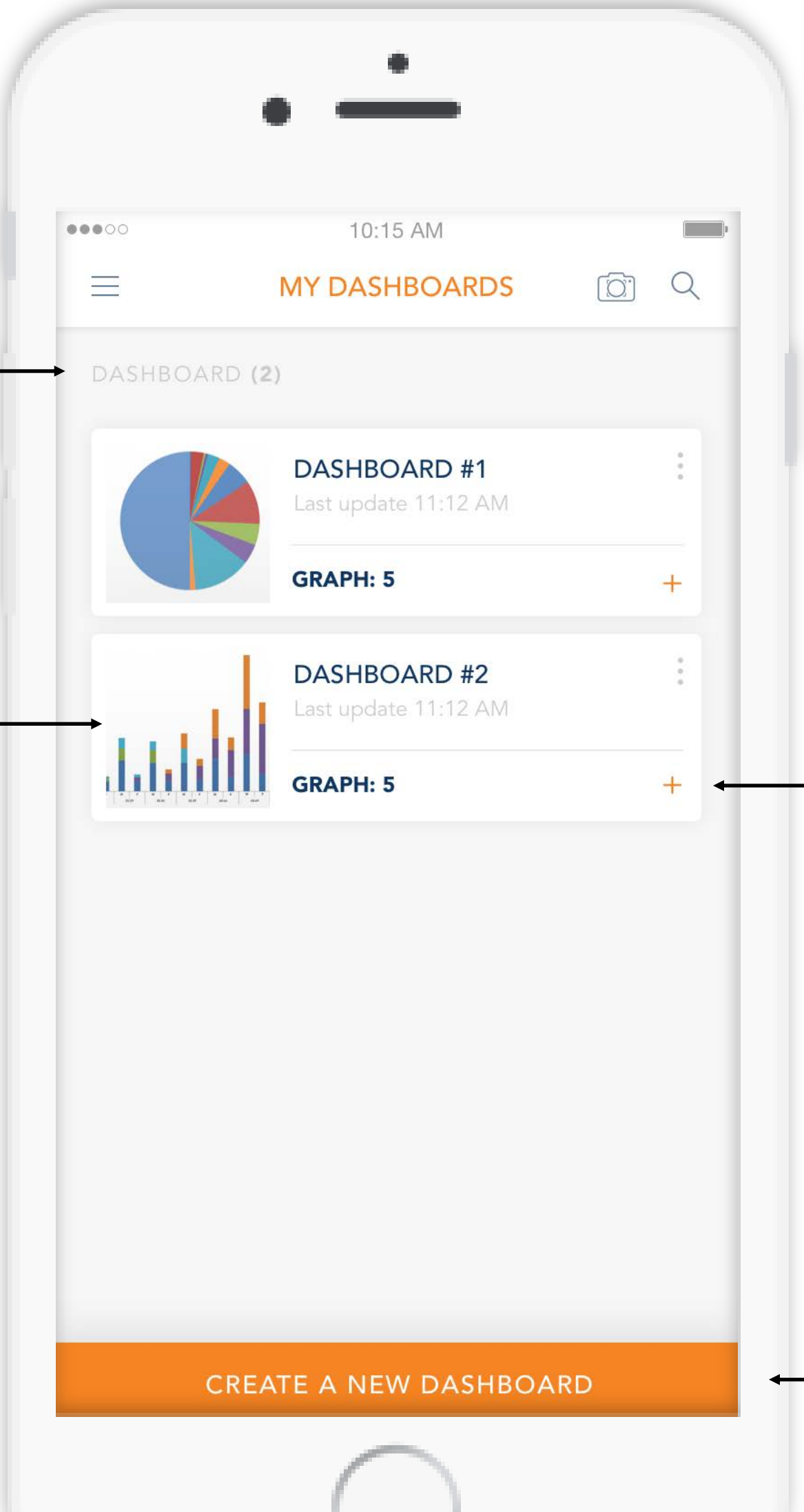
myDashboards

all you dashboards in one place



All your graphs are organized into dashboards, easily accessible from myDashboards

Graph preview is directly visible in the dashboard cards



Add graph with a few taps directly from the graph card

Create easily a new dashboard to organize more graphs



myDashboard

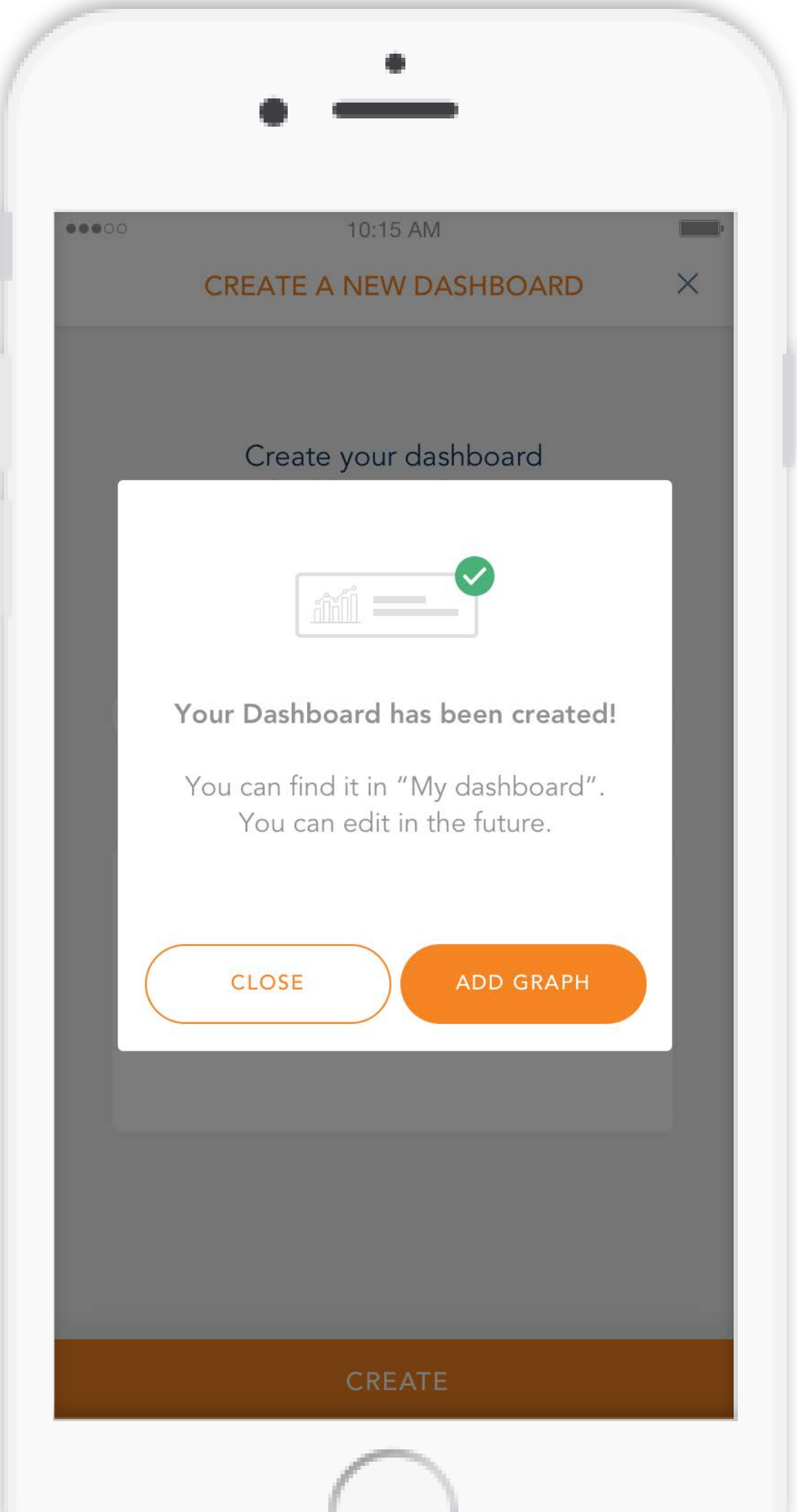
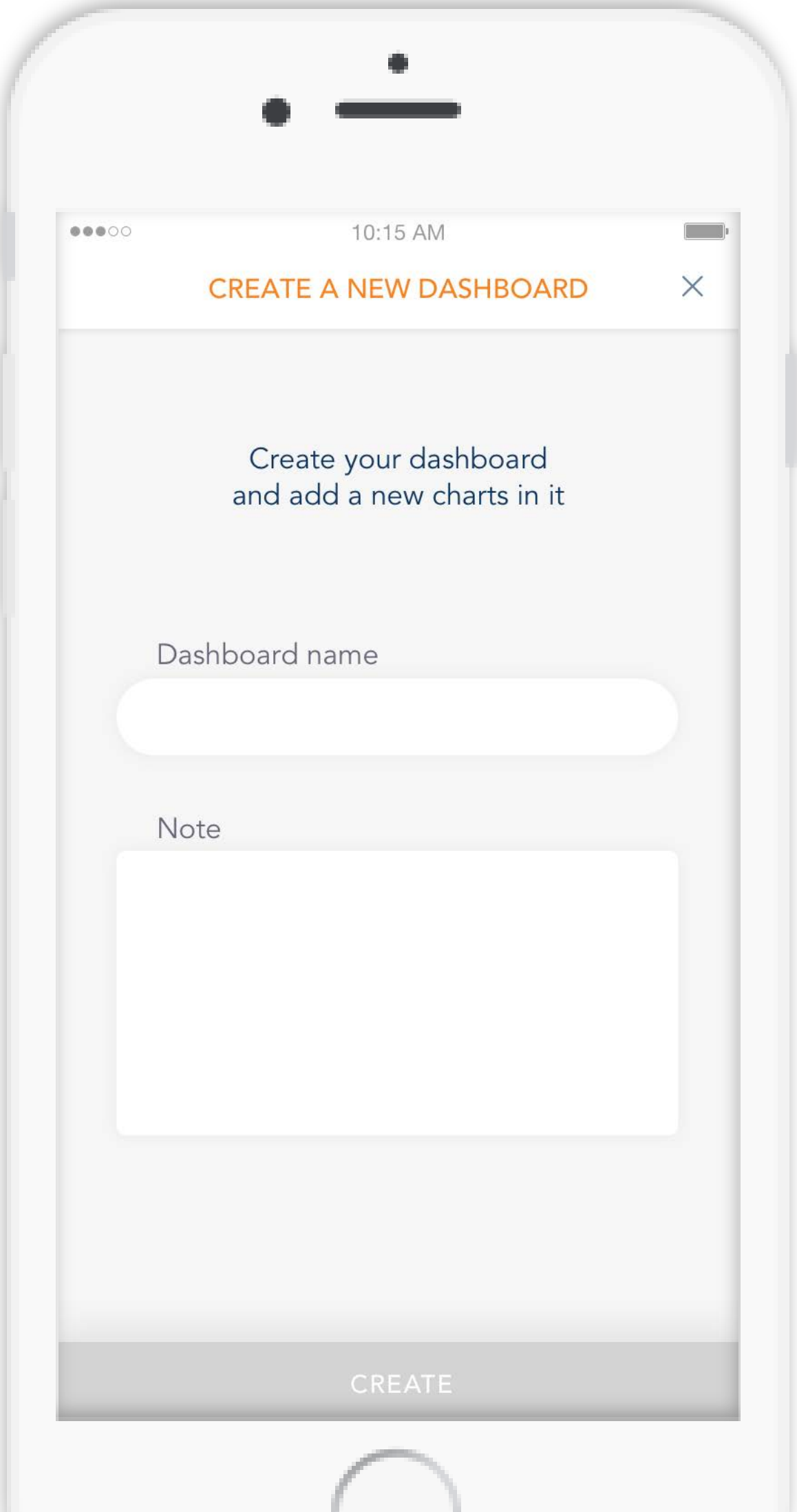
create a new dashboard workflow



Dashboard



user area



myDashboard

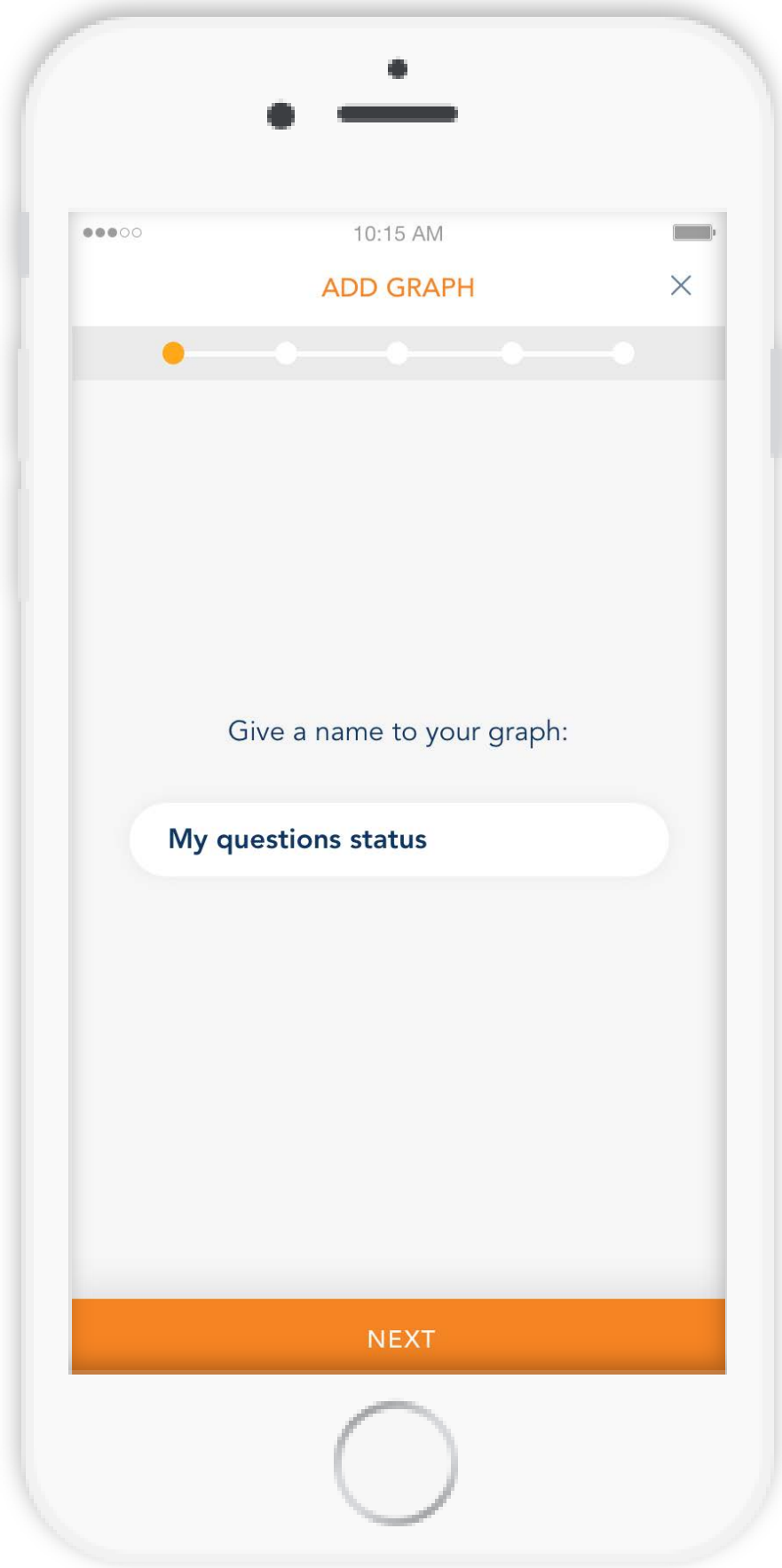
create a new graph workflow



Dashboard

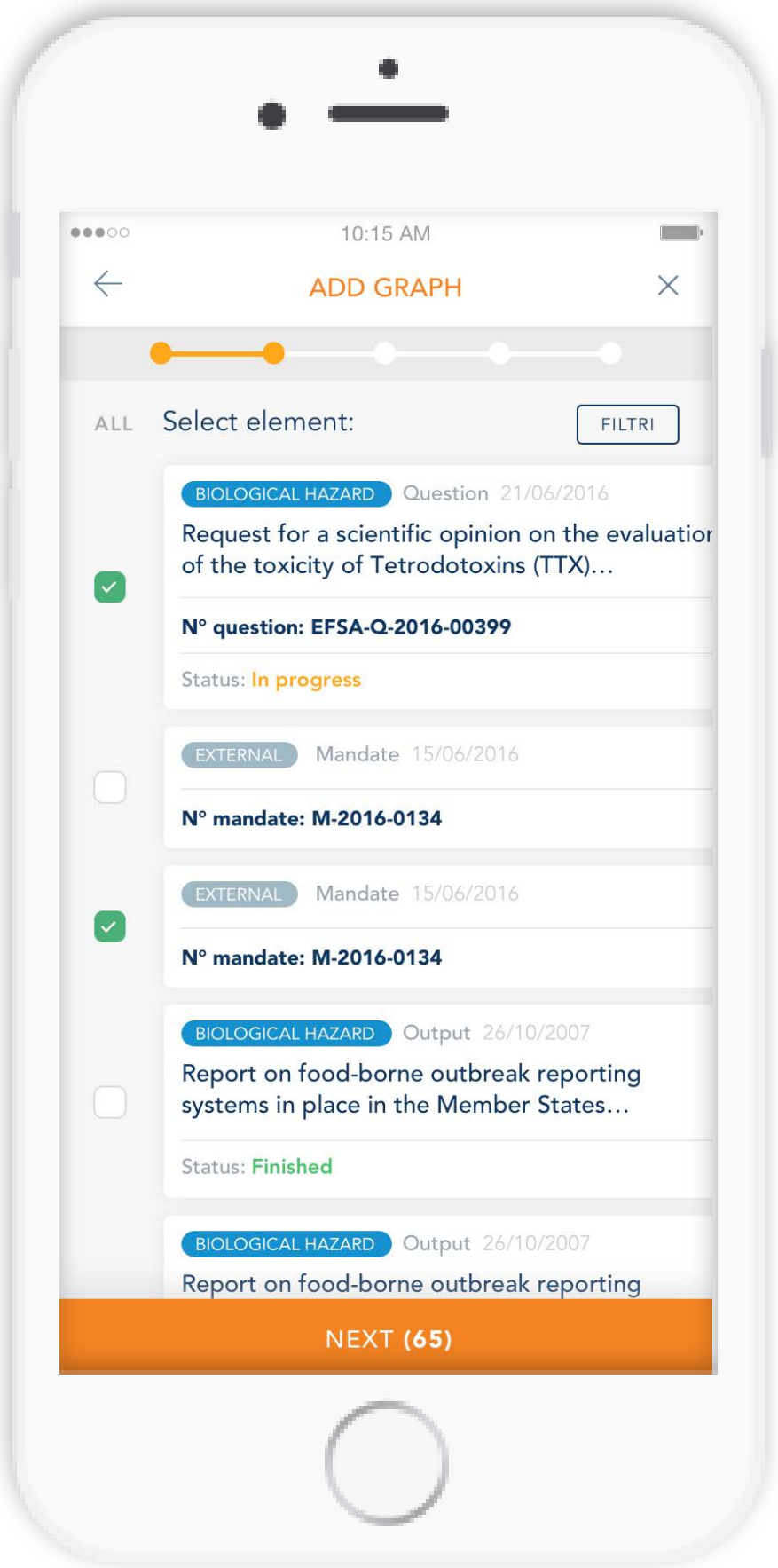


user area



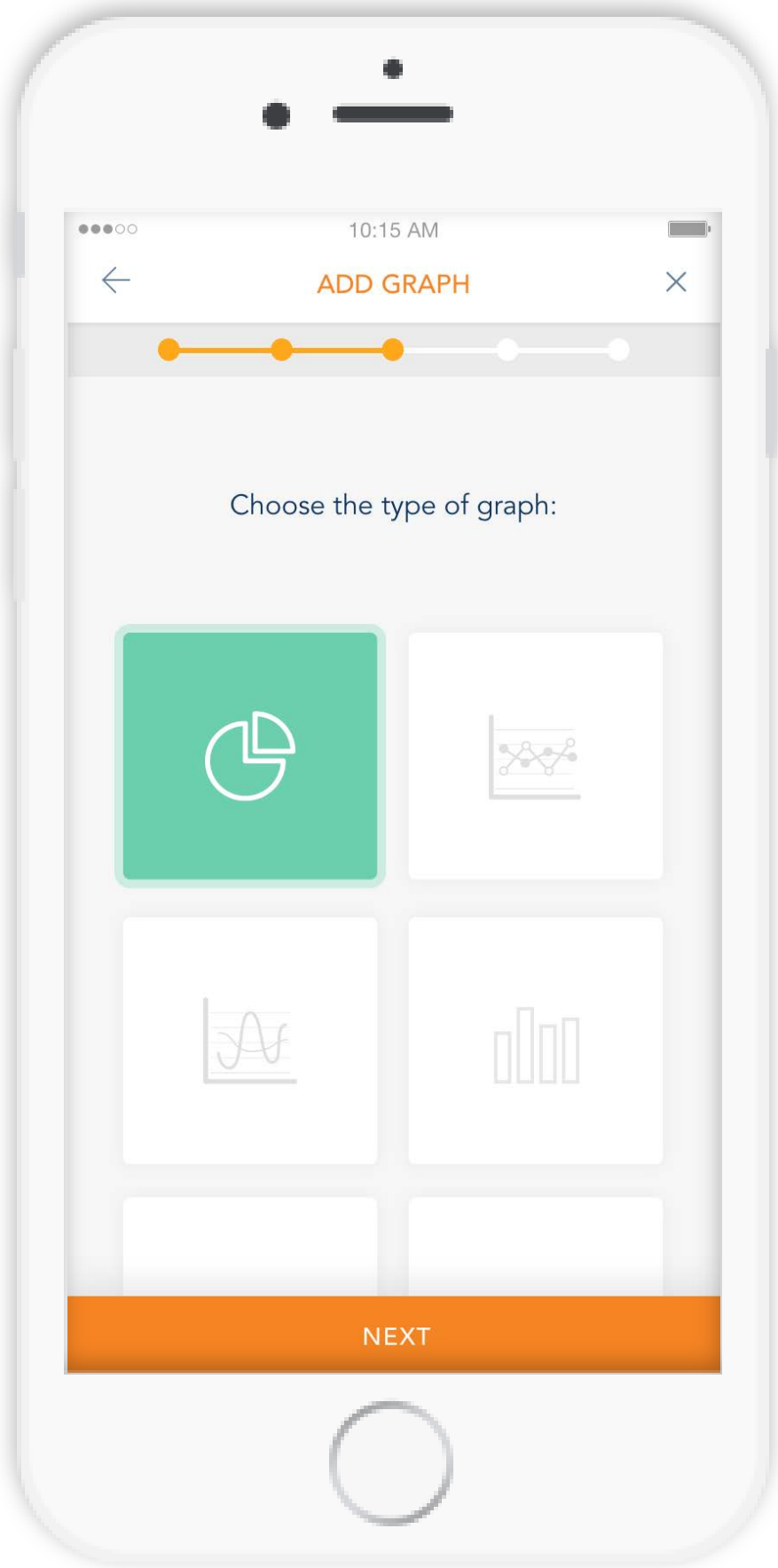
Step 1

give your graph a name



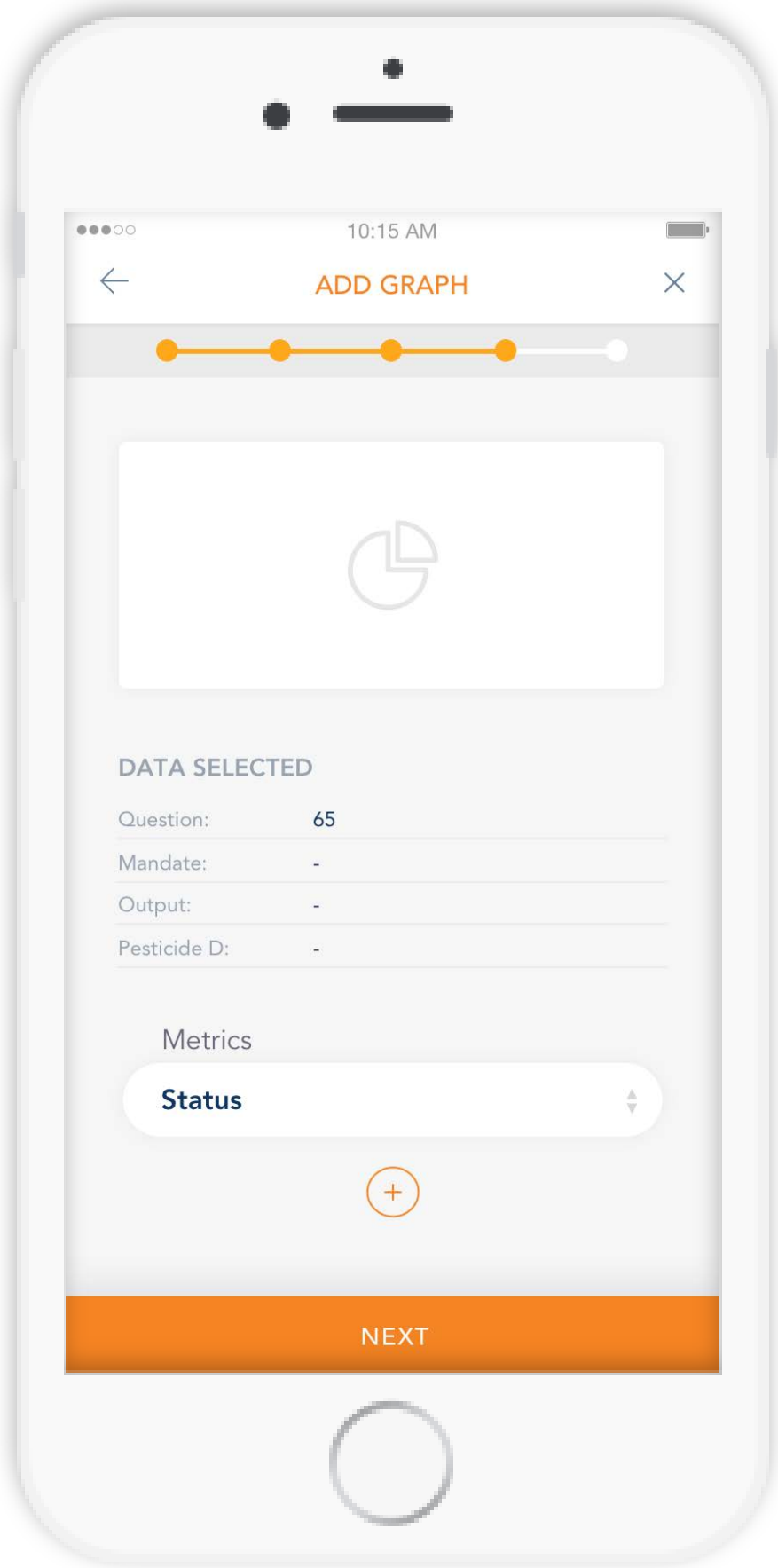
Step 2

select questions, mandates or dossier saved in myRegister



Step 3

select your graph



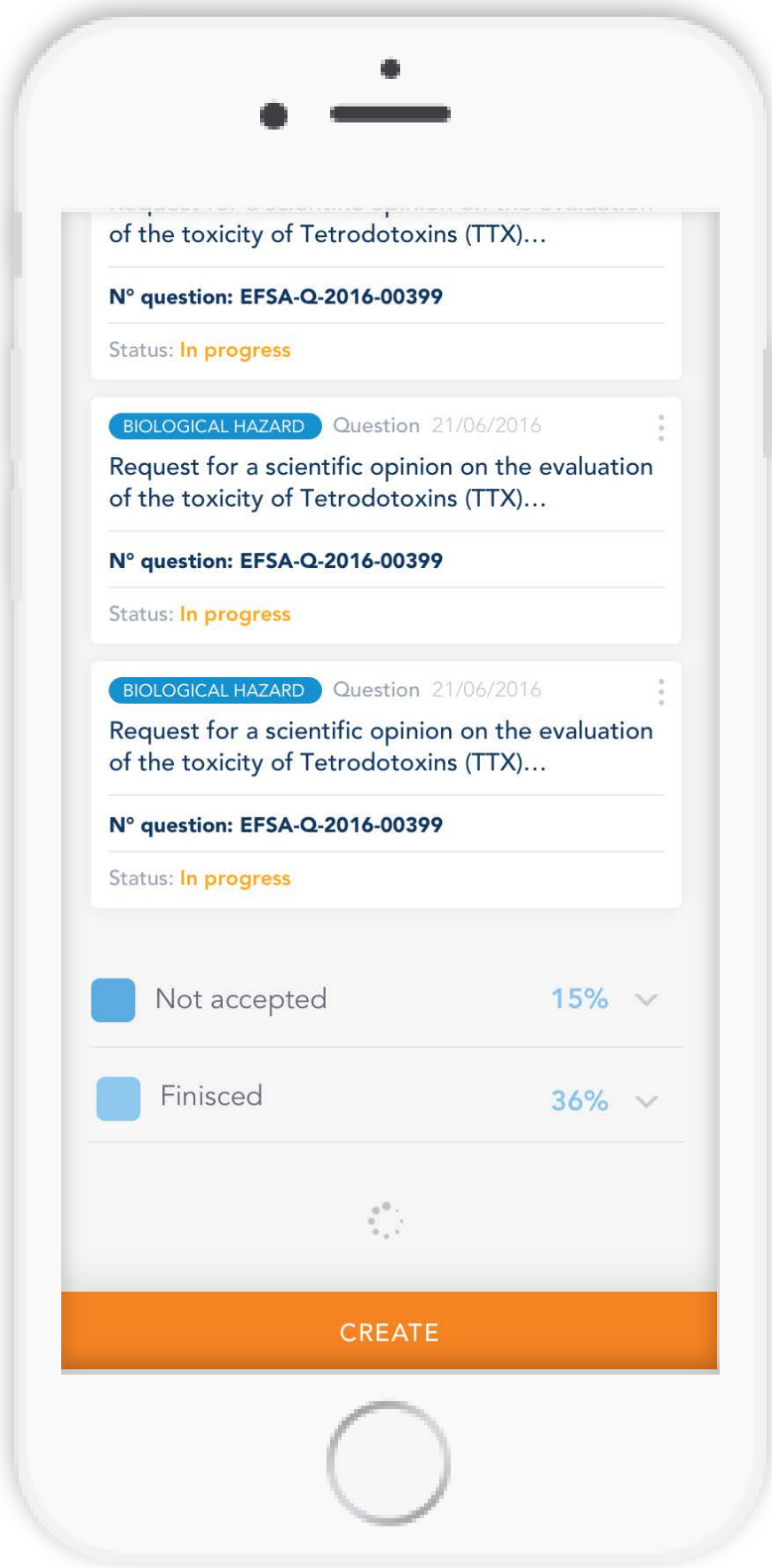
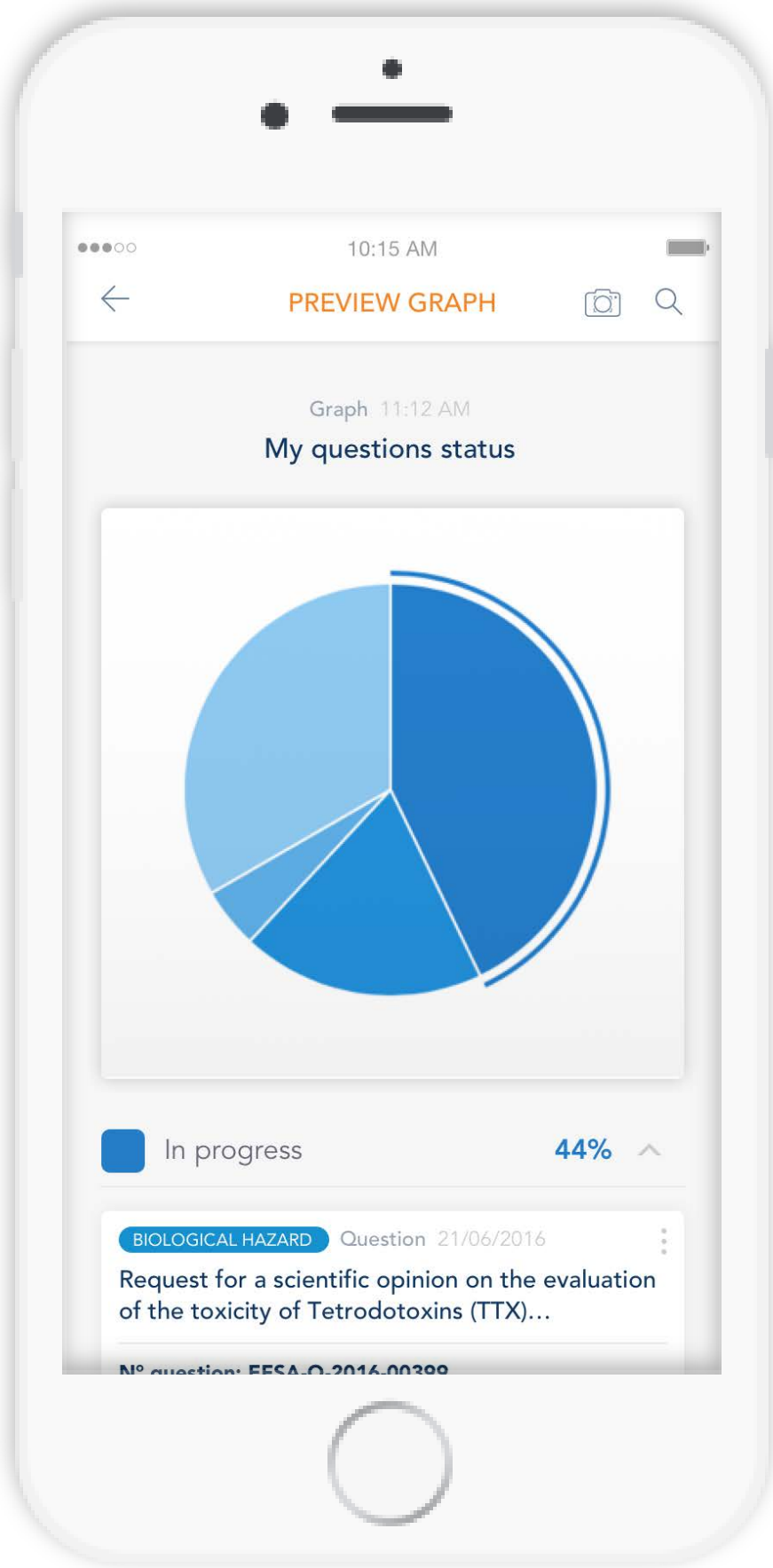
Step 4

obtain a summary of selected data and define the metrics



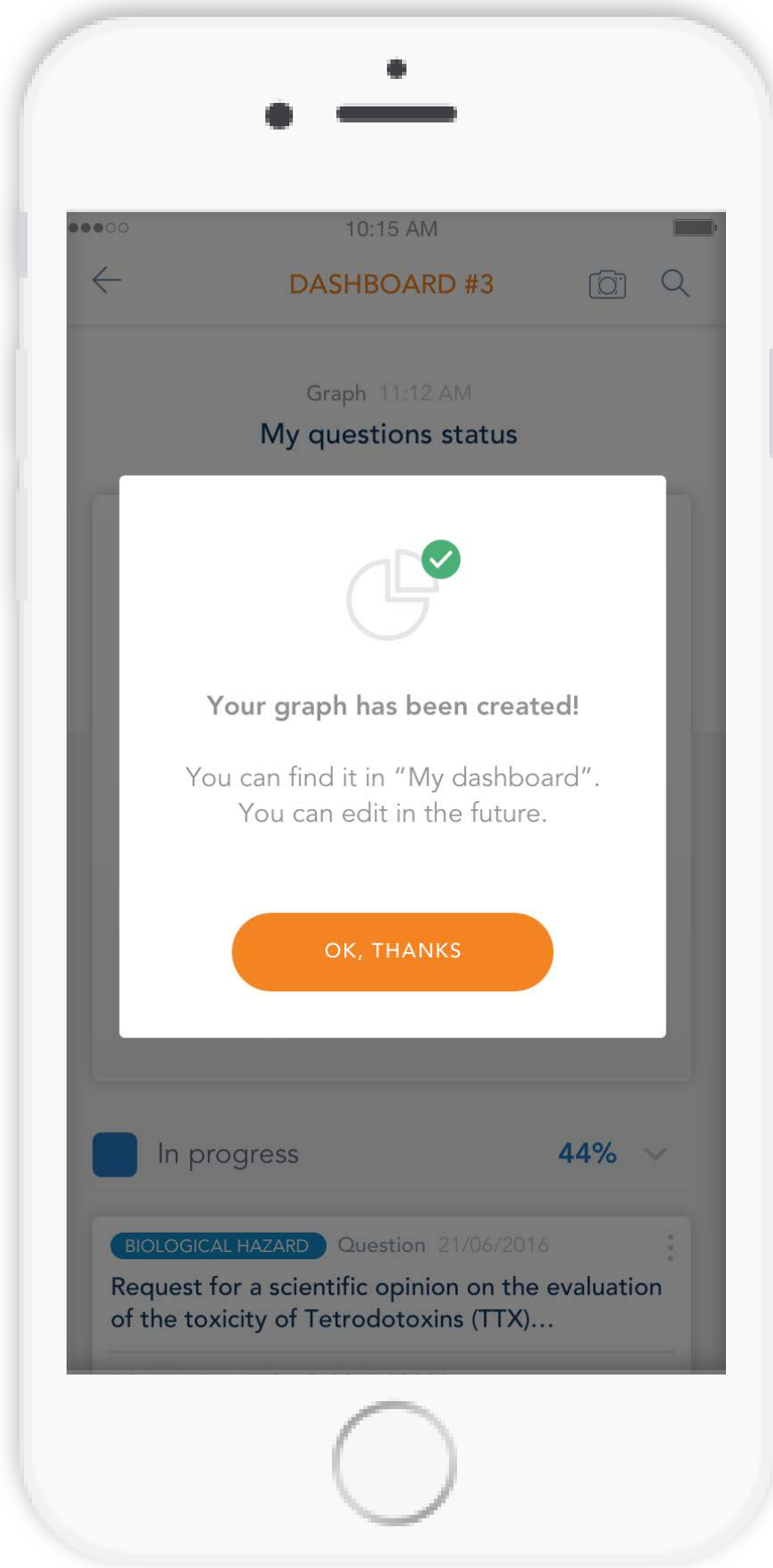
myDashboard

create a new graph workflow



Step 5

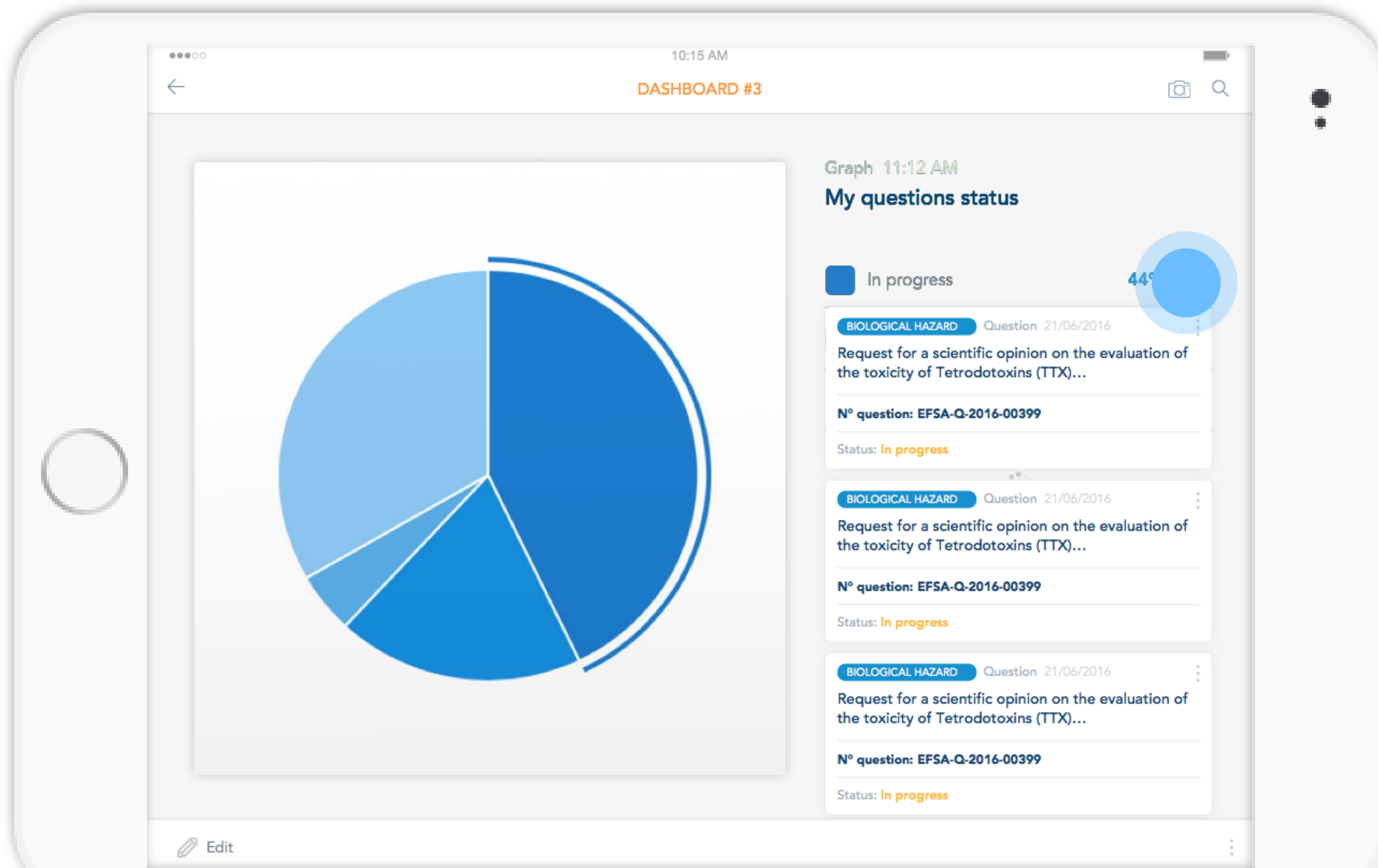
display your preview
and create the graph



Step 6

find your graph in
myDashboard area





myDashboards

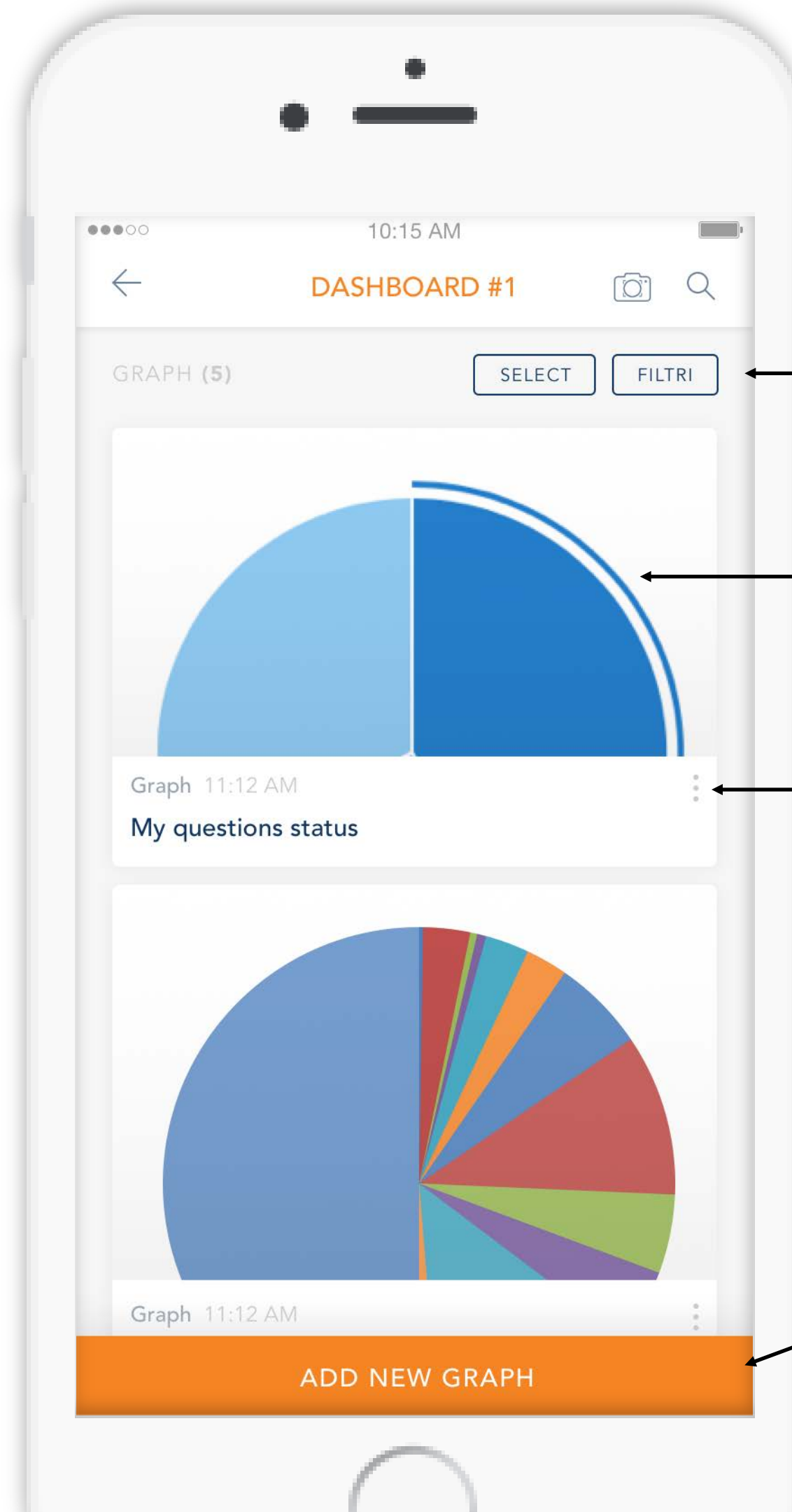
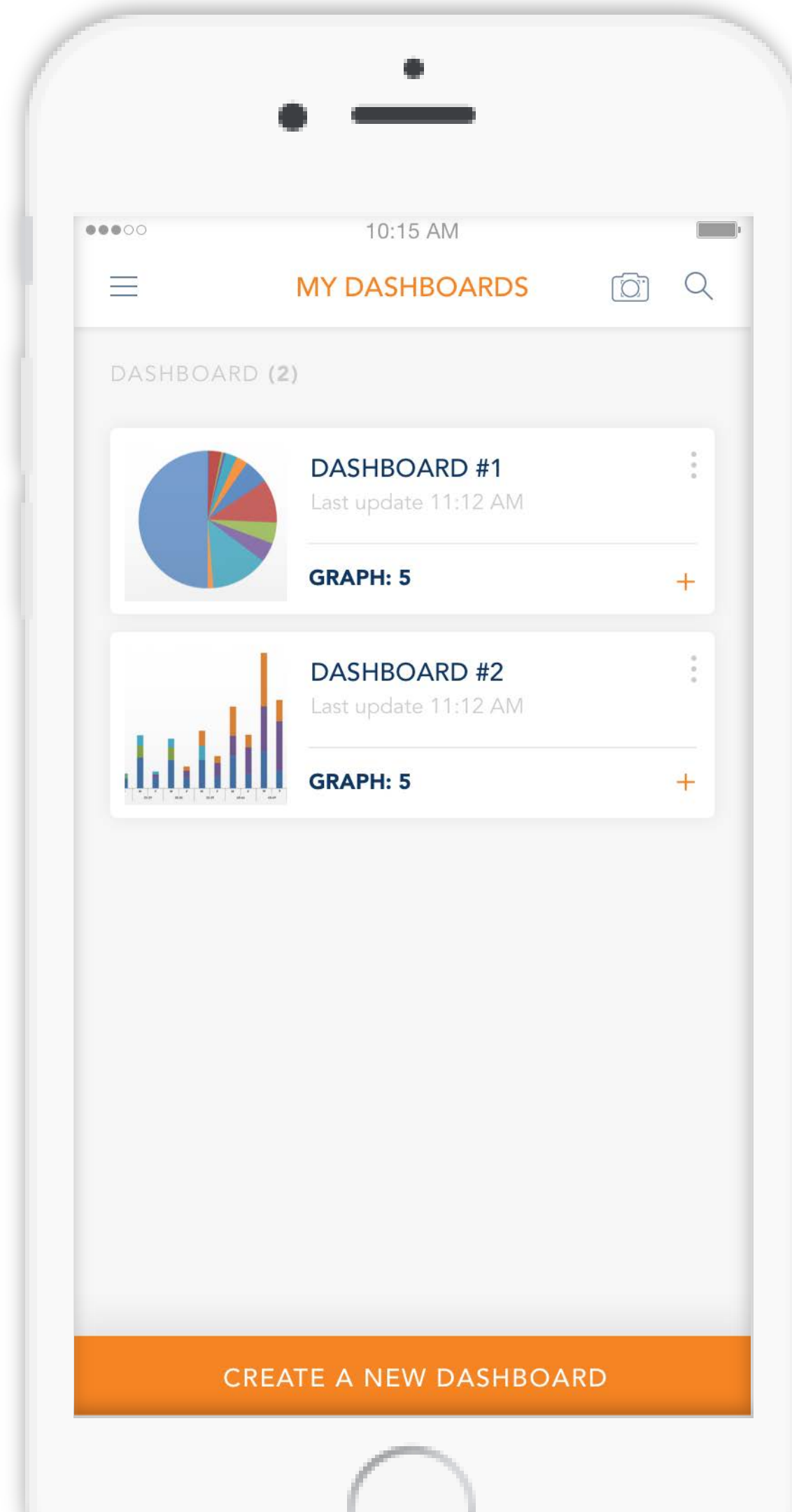
all your dashboards in one place



Dashboard



user area



Select: by clicking on "Select" you

can cancel or edit one or more

graphs

Graph card give you a preview

of graph created

Edit: with a single click on the card

you can edit the graph directly.

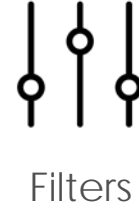
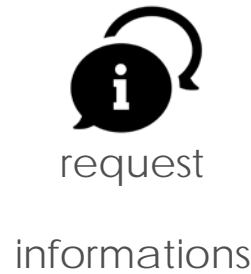
Add: with the main call to action

you can easily add a new graph in
the page.



myAsk

content personalizzato



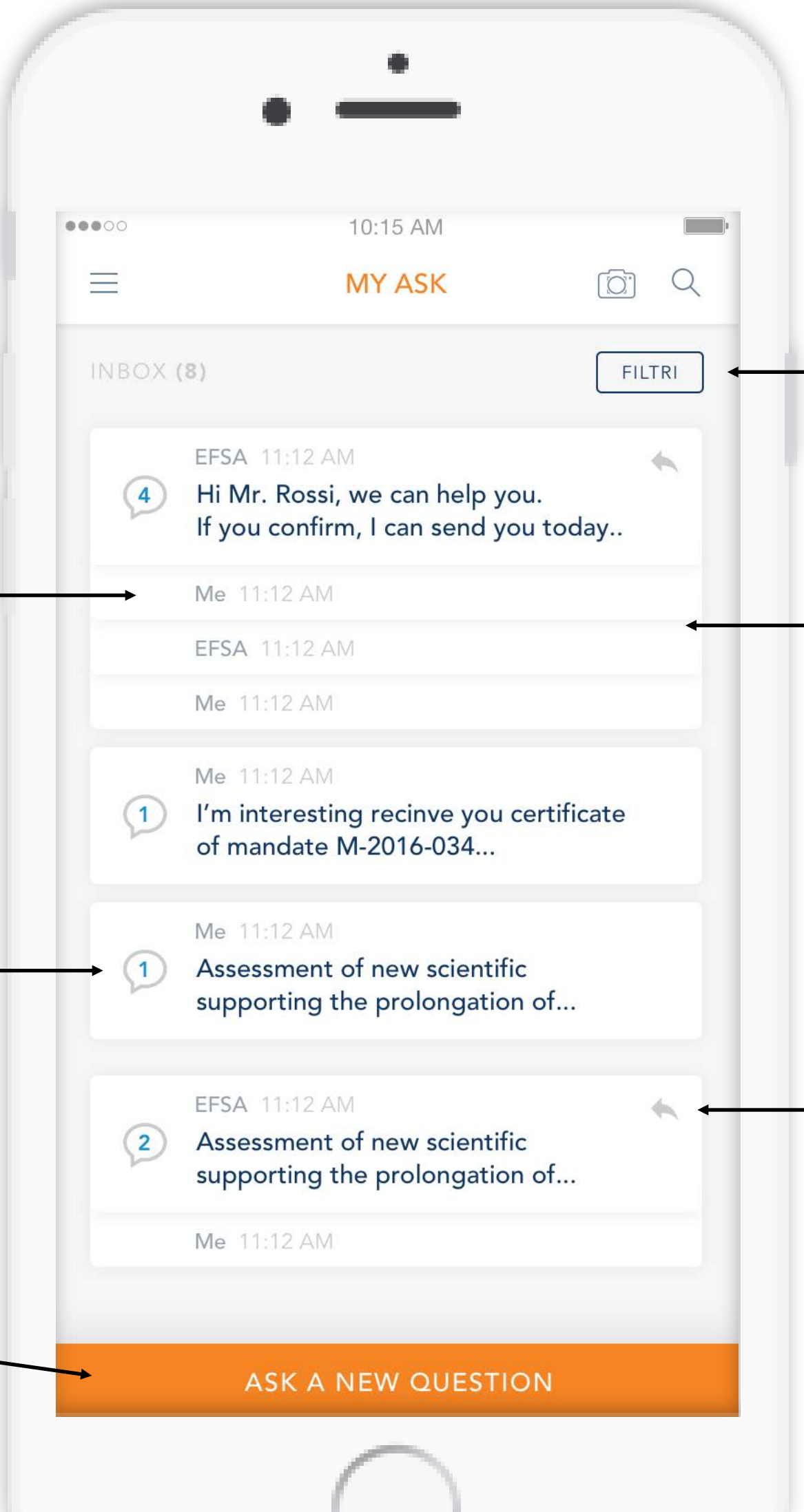
user area

All requests of information to EFSA are organised in a clear and intuitive way.

Replies from EFSA are displayed immediately under the preview of your request.

Count all sent messages directly in the request card

Send a new ask to EFSA directly from the call to action on the bottom of the screen



Filter to only visualize the requests you want.

Expand replies directly on the card by tapping on the count indicator for a quick view.

Fast reply directly from the call to action in the card



Settings

account and personal notifications

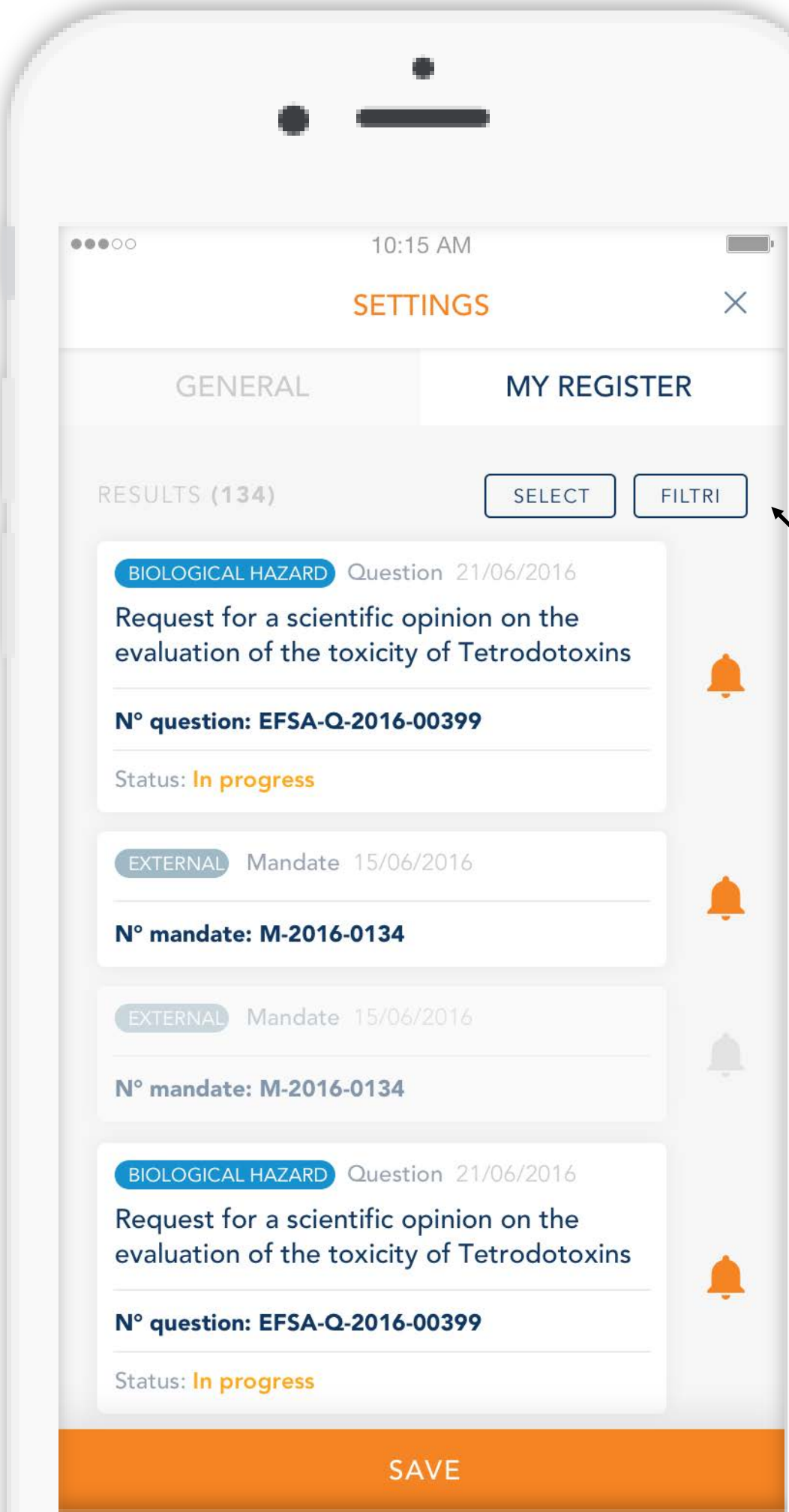
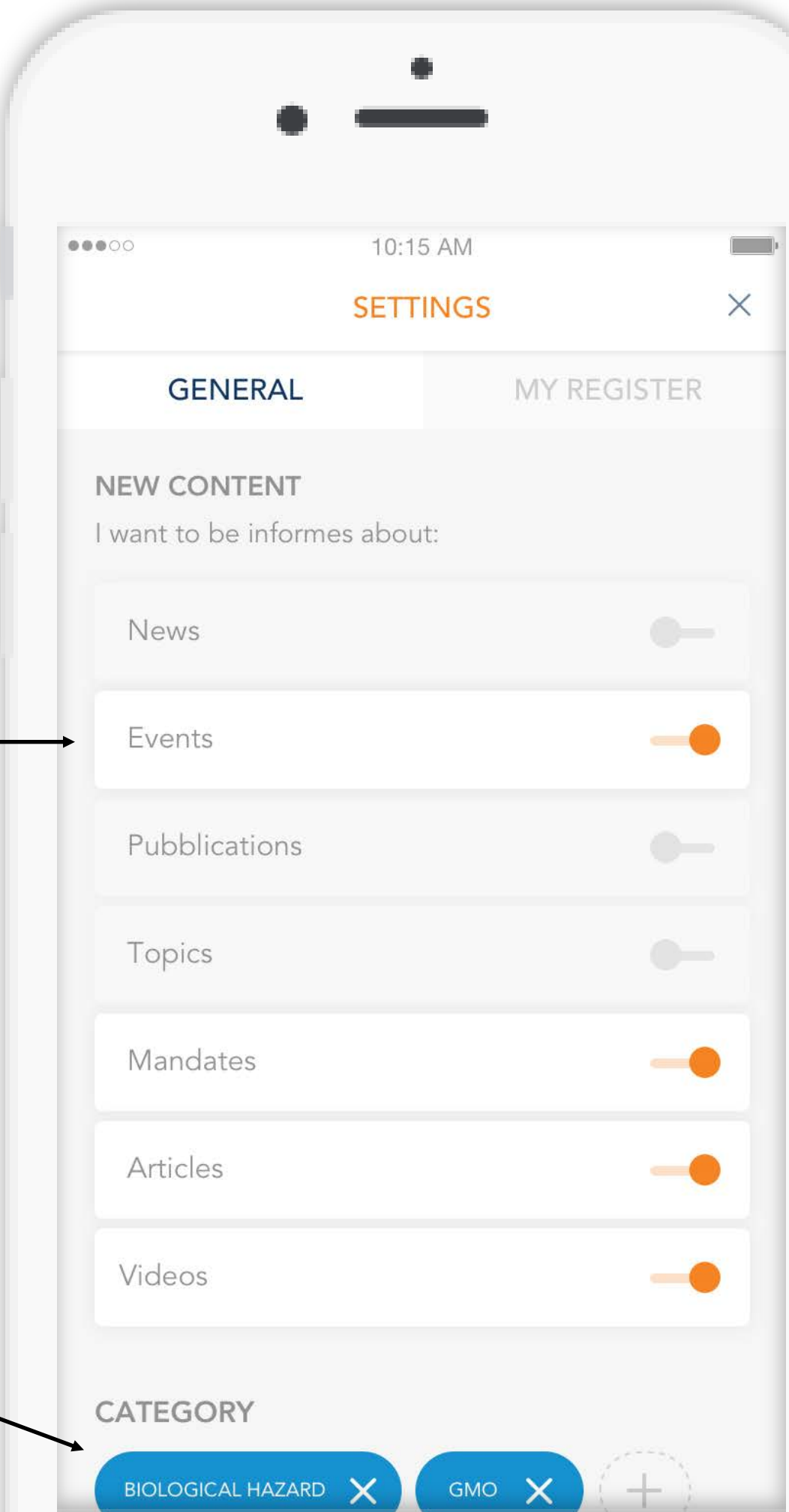


user area

General settings give the user the possibility to set what kind of notifications he/she will receive about EFSA content.

Activate or deactivate a notification type with a simple tap.

Define which topic category you want to receive notifications



MyRegister settings give you the control of all active notifications related to mandate or question.

Filter notifications by contents for an easier setup

Save your settings and stay tuned





Security

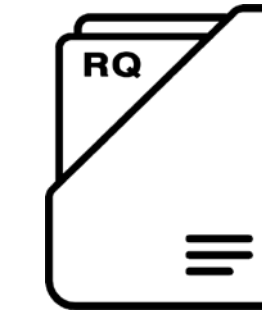
Data management and protocols

Security

data management and protocols



General area

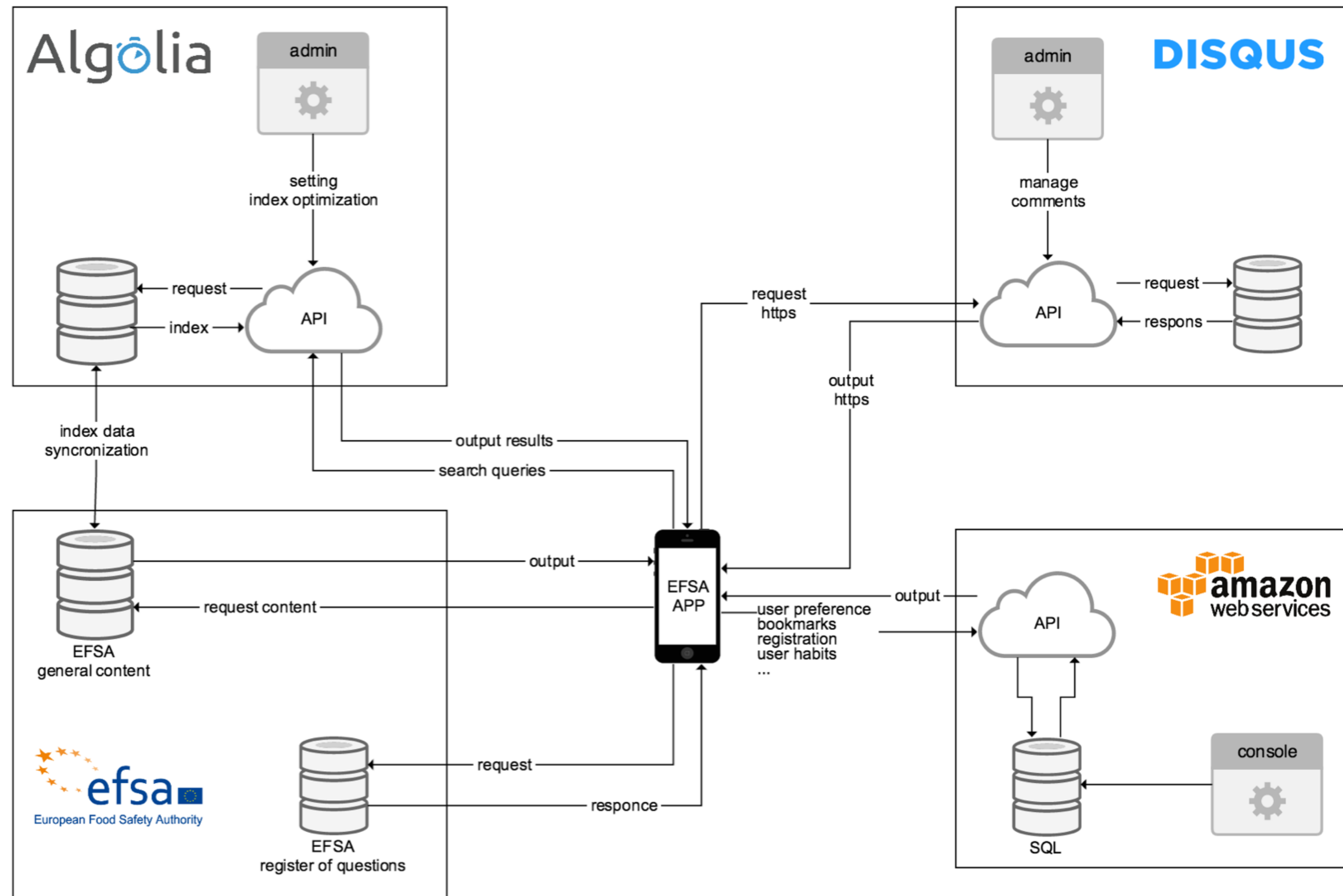


register of question
area



user area

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Security protocols

- HTTPS
- TLS 1.2
- Token authentication



Sprint Team

EFSA Hackathon

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Project manager



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#MakeithAPPen

EFSA Hackathon

Thanks.

Sprint Team | Parma | 24.09.2016