



How to use the GREGG

Team knowledge

legenda

1. Basic Gregg

2. Start-up GREGG app

3. Preparing for measurements

4. Perform measurements

5. New features

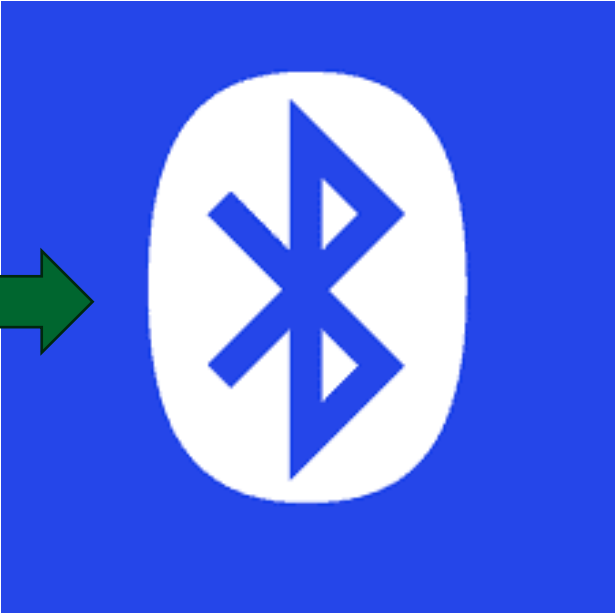
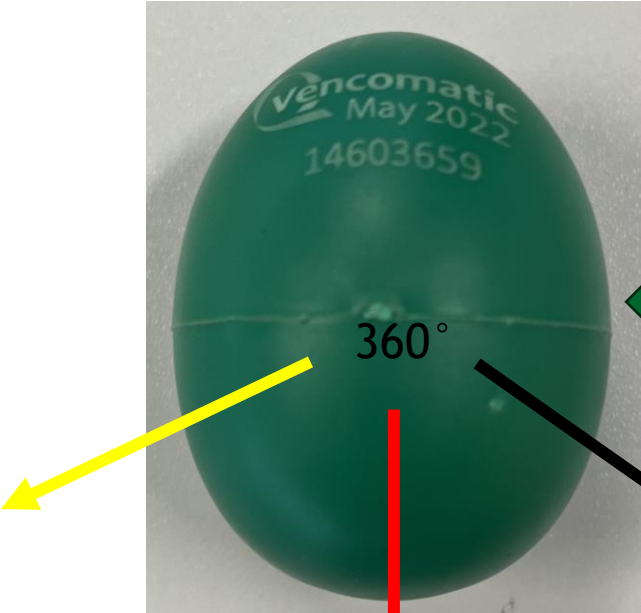


Basic Gregg

When the gregg is started impacts on X,Y,Z axis are measured

Bluetooth connection

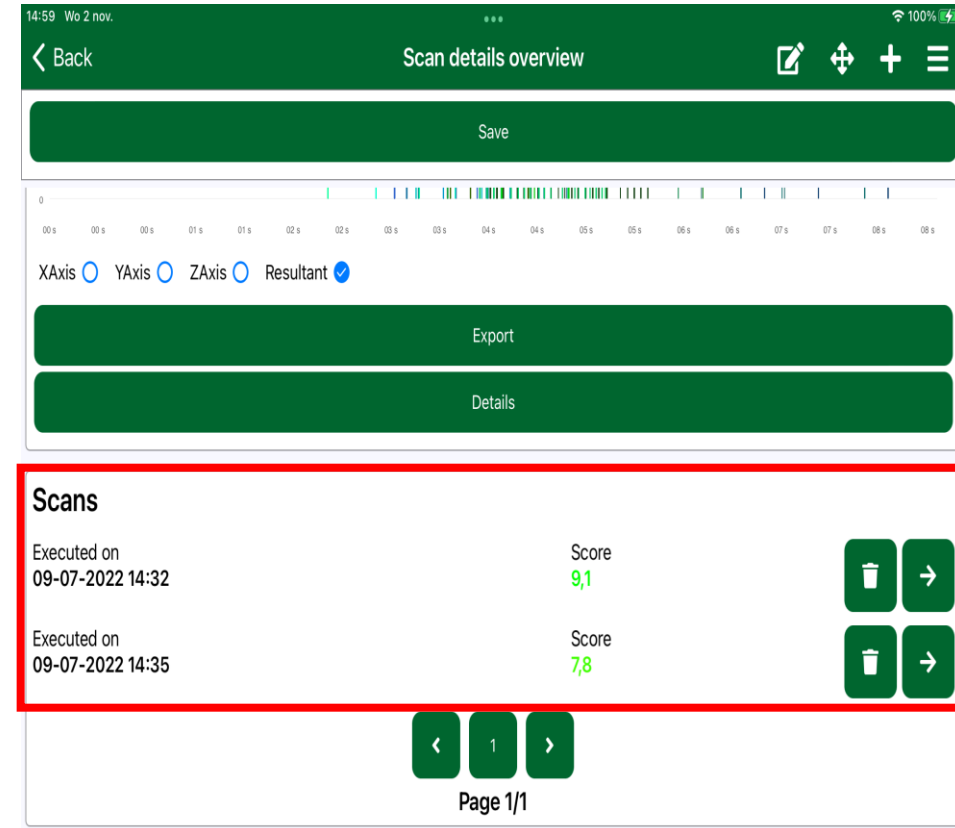
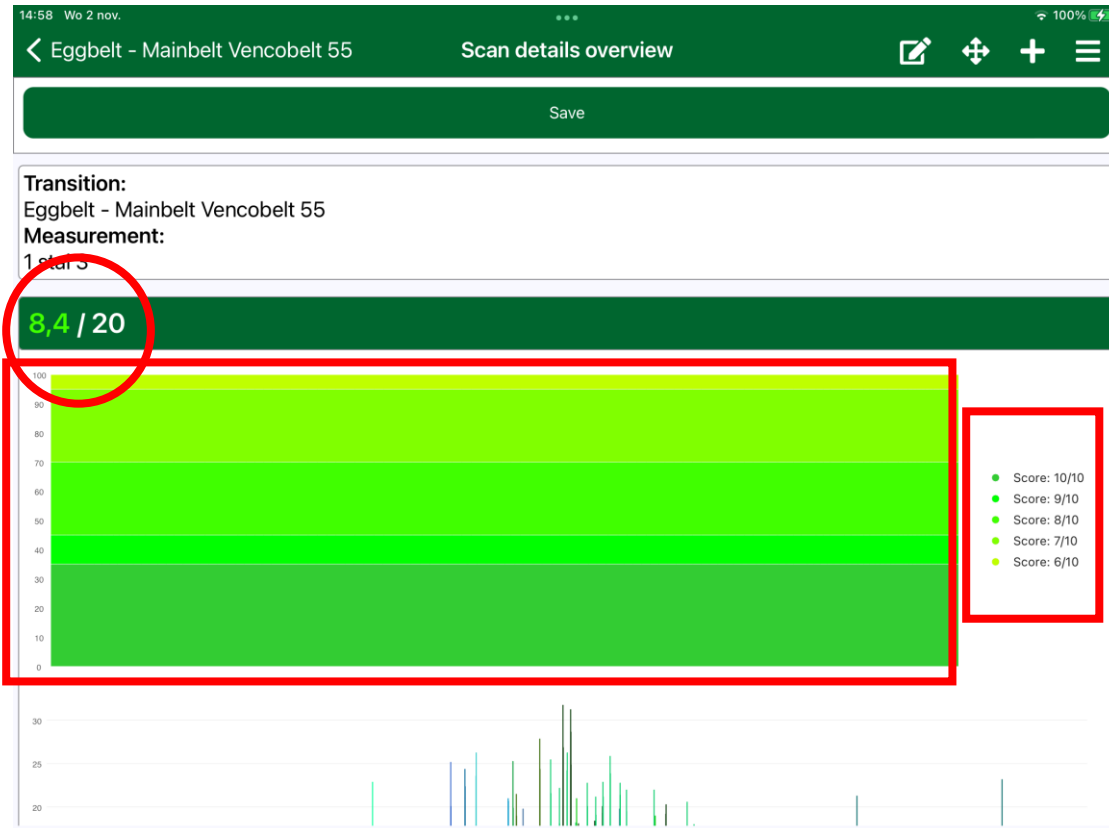
Android / apple



Internet connection to save/store the data



1. Basic Gregg



The score is on a scale from 1 – 10 (1 is very bad, 10 is excellent)
RED = impact above 40 G (G means G-force (gravity))
ORANGE = impact between 30-40 G (weaker eggs get damaged)
YELLOW = impact between 20-30 G (acceptable with room for improvement)
GREEN = impact below 20 G (No eggs will get damaged)



1. Basic Gregg

Documents for the border control are located inside the Gregg Box.



Traveldocument Gregg

Content Electronic Egg

The electronic Egg (called the Gregg) is a measurement tool to determine the forces that act upon normal eggs during transportation. The electronic eggs wake up after a formidable shock and blink green for one minute (without any activity during this time). The owner of the eggs can perform an example measurement on request with the eggs and the smartphone application using Bluetooth low energy. The eggs consist of 2 batteries, 2 accelerometers, a Bluetooth sender, a processor and various other electrical components.

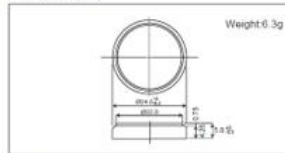


Battery

Manganese Dioxide Lithium Coin Batteries: Individual Specifications
 Reference: Panasonic Lithium Handbook (https://eu.industrial.panasonic.com/sites/default/pidseu/files/downloads/files/id_lithium_1003_e.pdf)

CR2450

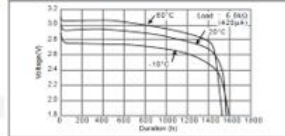
Dimensions (mm)



Specification

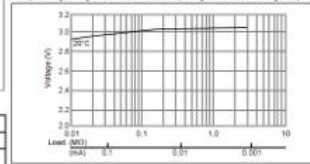
Nominal voltage (V)	3
Nominal capacity (mAh)	620
Continuous standard load (mA)	0.2
Operating temperature (C)	-30 - +60

Temperature Characteristics

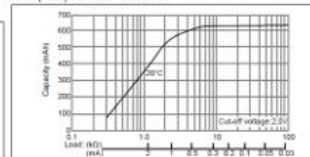


Power calculation: $P=U \cdot I = (620 \text{ mAh} \cdot 3V) / 1000 = 1.5 \text{ Wh}$.
 2 batteries per egg: $2 \cdot 1.5 = 3 \text{ Wh}$ per egg

Operating voltage vs. load resistance (voltage at 50% discharge depth)



Capacity vs. load resistance



Tr.

Filling

The white filling from the previous page consists of a two composite polyurethane resin, specifically designed for potting and casting applications. The name of this resin is the Epic Resins S7325. Reference Radio Frequency Encapsulation compounds (<http://www.epicresins.com/Content/files/EpicRadioFrequencyBrochur.pdf>)

Specifications:	
Property	Value
Viscosity @ 25 °C	900 – 1,100 cps
Gel Time @ 25 °C (minutes)	12 – 18 (60g)
Specific Gravity	0.95-0.96
Glass Transition Temp (Tg)	(-40) °C Maximum
Coefficient of Thermal Expansion (CTE) (EXP-6) in/in °C	550 – 575 (EXP-6) in/in °C
Dielectric Strength	414 – 416 Volts / mil Min
Dielectric Constant (@ 100 kHz)	3.25 – 3.45
Dissipation Factor (@ 100 kHz)	0.010 – 0.020
Volume Resistivity (ohm cm)	1.50e+11 – 2.50e+12
Shore Hardness 25 °C	17 – 20 Shore A

Explanation and technical description of the Gregg

Think ahead with poultry people

Traveldocument Gregg

Think ahead with poultry people

Traveldocument





2 Basic
Gregg



legenda

1. Basic Gregg

2. Start-up GREGG app

3. Preparing for measurements

4. Perform measurements

5. New features



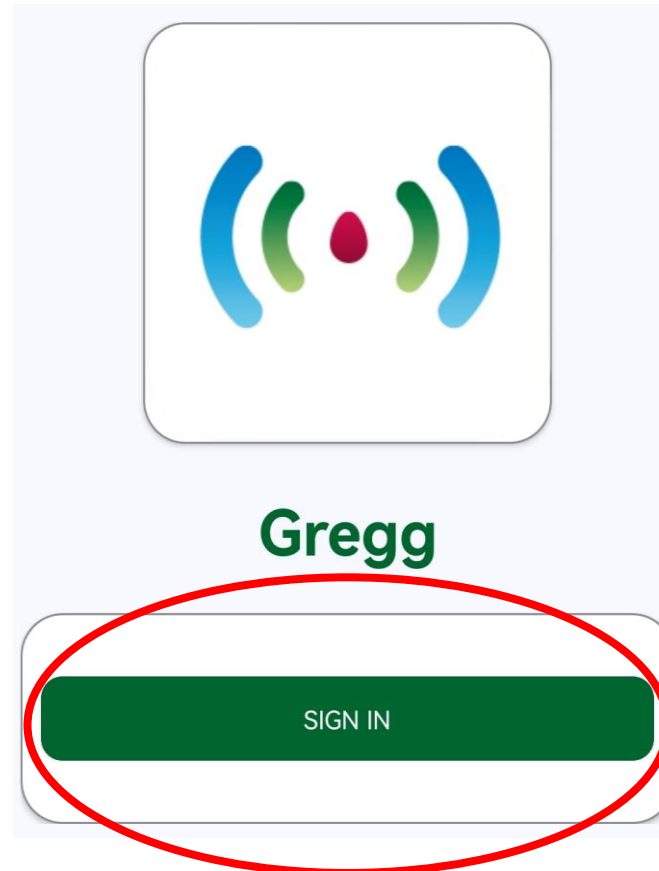
2. Start-up GREGG app

- Install the app from the Apple or Android store
- On your Phone or tablet*



2. Start-up GREGG app

- Open the App via the interface by tapping the icon*
- Tap **sign in*** if you already have an account
- Tap **sign up now*** if you don't have an account. Follow the instructions.
- You can use your own created Password*.



Sign in with your email address

[Forgot your password?](#)

Sign in

Don't have an account? [Sign up now](#)

Sign in with your social account



Google



Sign in with Apple



2. Start-up GREGG app

- Enter email and password*
- Press 'Sign in' button*



Sign in with your email address

[Forgot your password?](#)

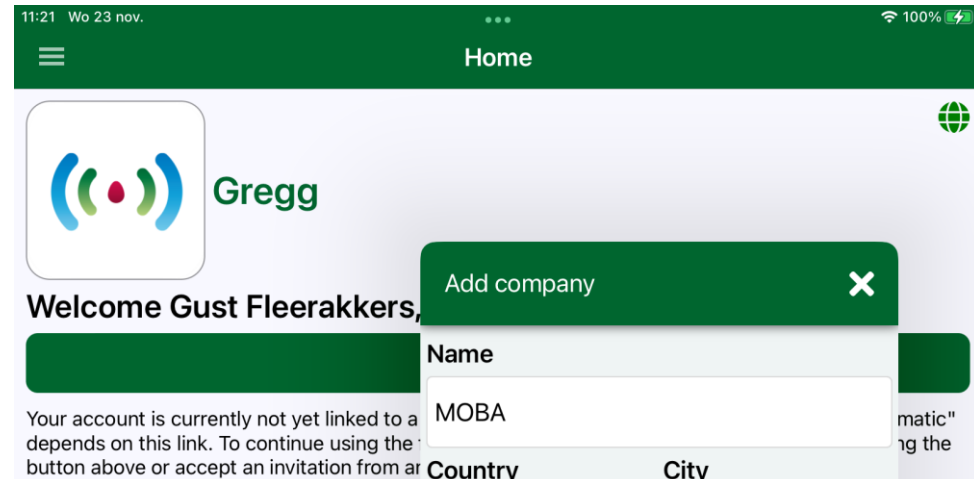
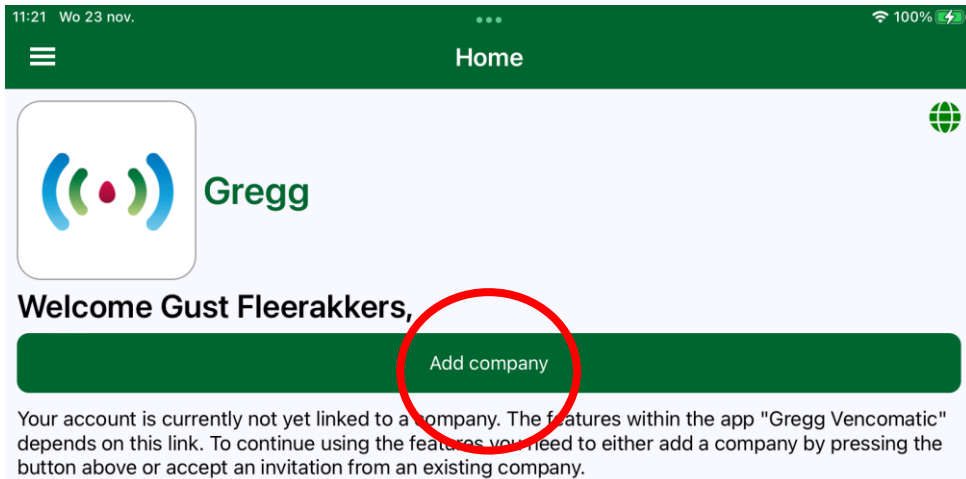
Don't have an account? [Sign up now](#)

Sign in with your social account



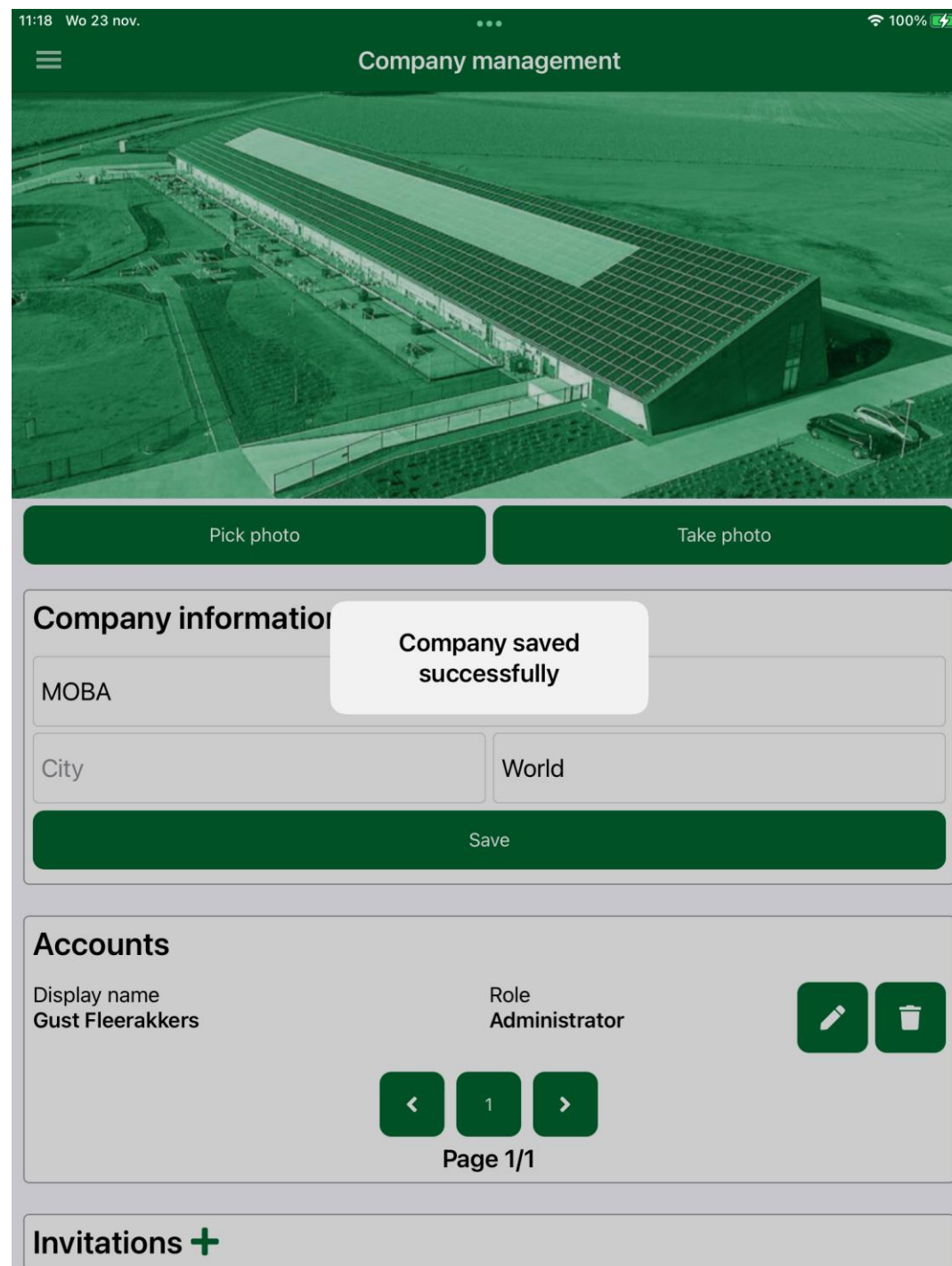
2. Start-up GREGG app

- After log in* : push add company*
- Push Save**
- You can change the language and you can switch between your companies.



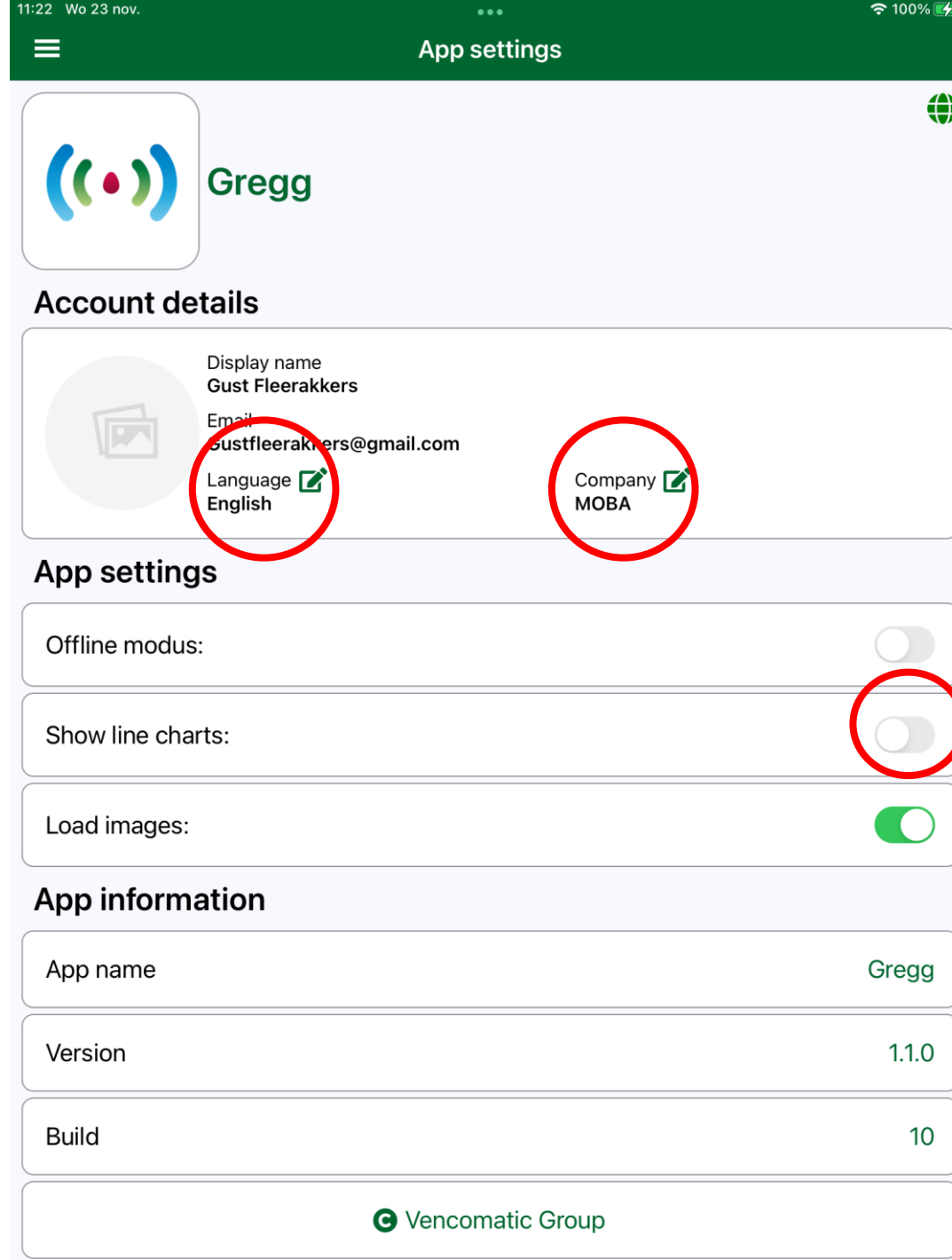
2. Start-up GREGG app

And you company is saved succesfully*



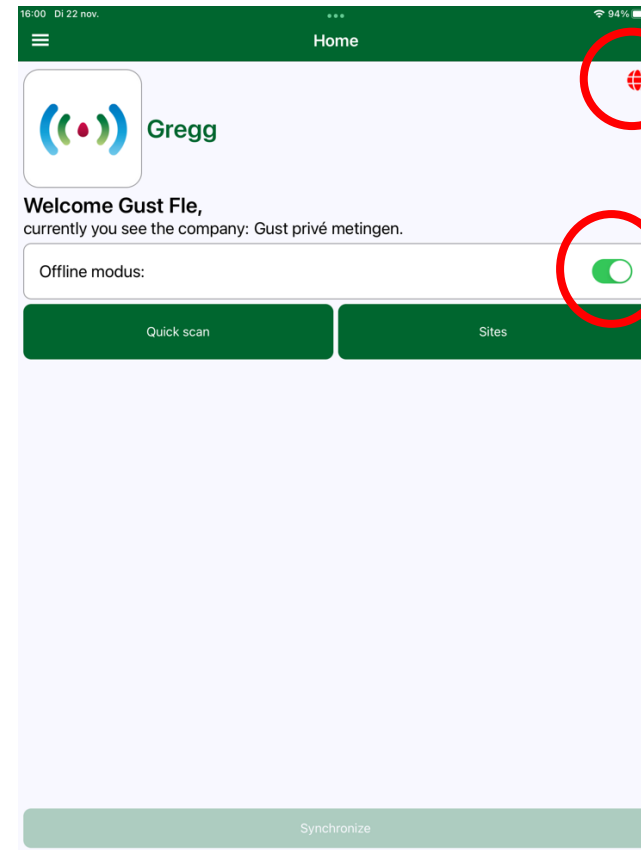
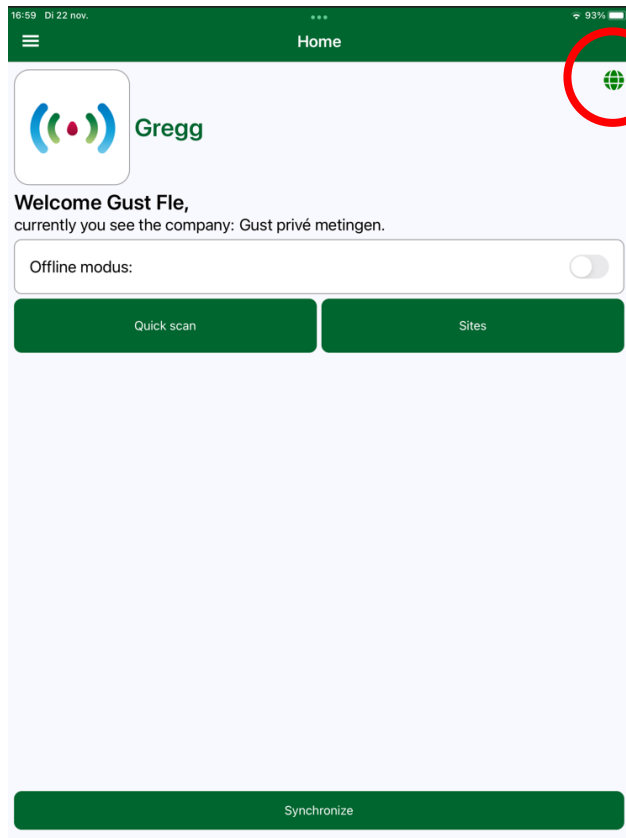
2. Start-up GREGG app

- You can change the language*.
- and you can switch* between your companies*.
- You can also make line charts visible*.



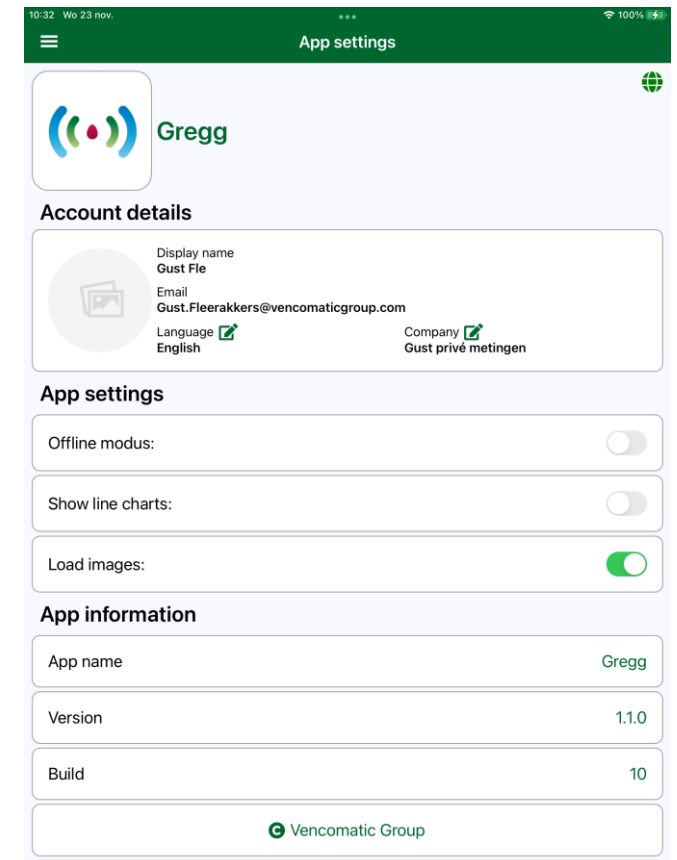
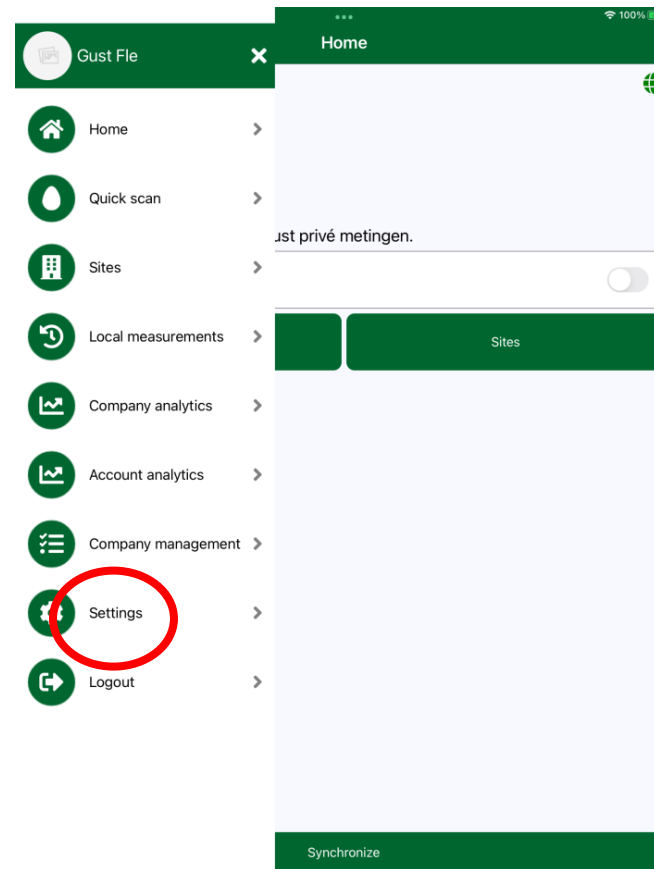
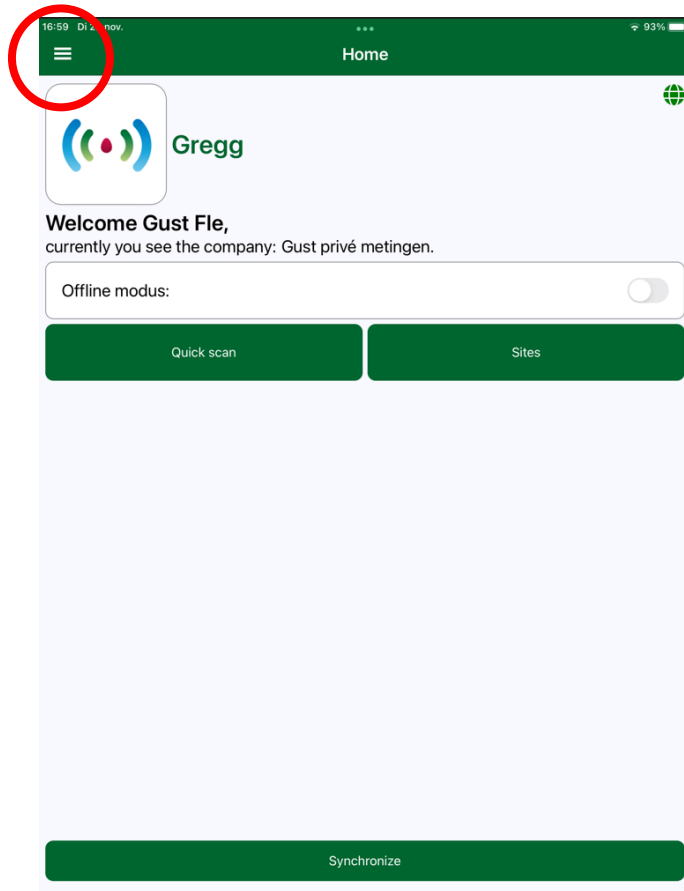
2. Start-up GREGG app

- After sign in the Home page opens*
- the green globe means you are working in an online mode*
- The red globe means you are working in an offline mode*
- When the switch is green you are in ofline mode*



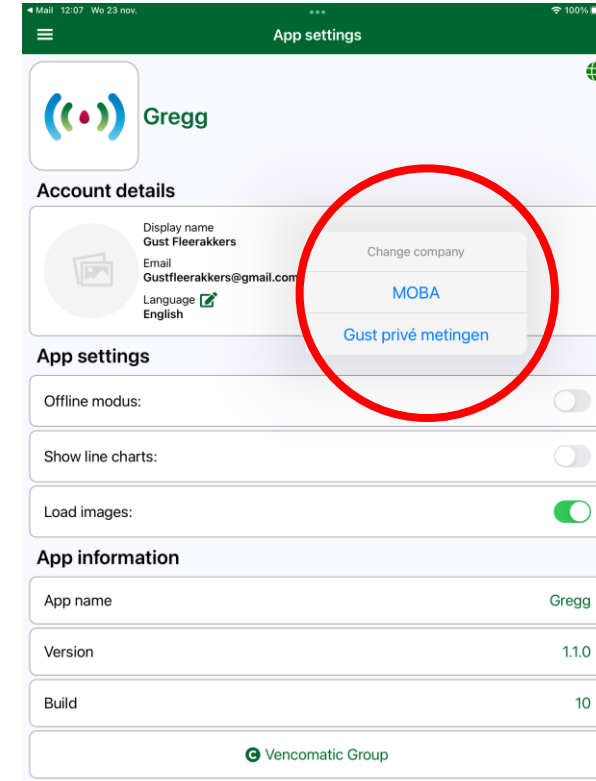
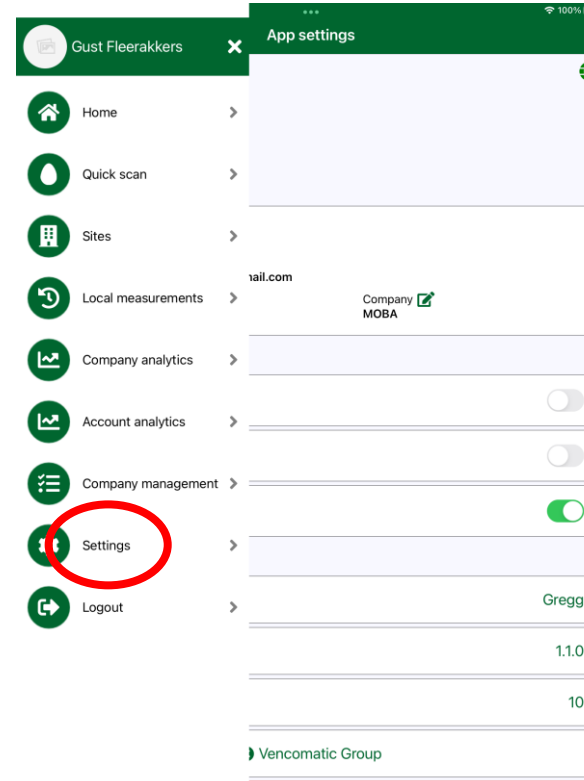
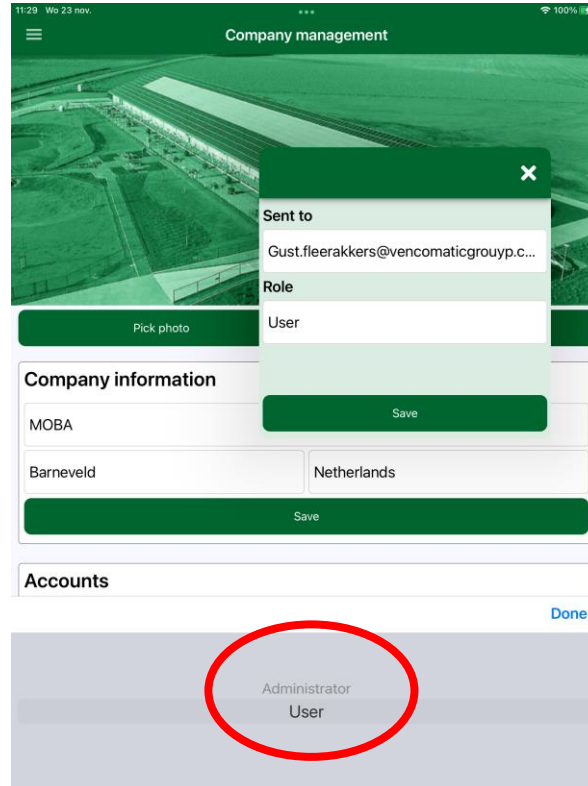
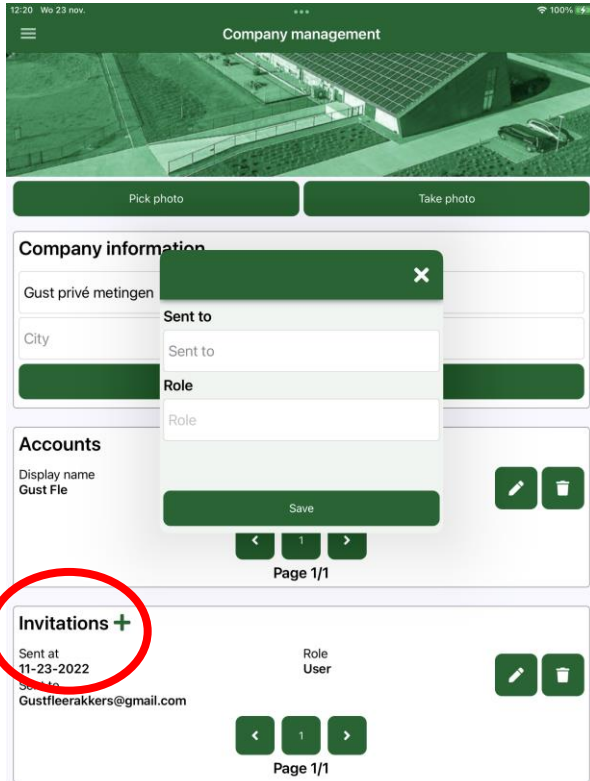
2. Start-up GREGG app

- Open the home page*
- Open the menu*
- Tap on settings and your account Opens



2. Start-up GREGG app

- Menu - Company management
- You can invite people at your account*. +
- They can be invited as user or administrator*.
- After the invitation is accepted it's possible to change between companies*.



legenda

1. Basic Gregg

2. Start-up GREGG app

3. Preparing for measurements

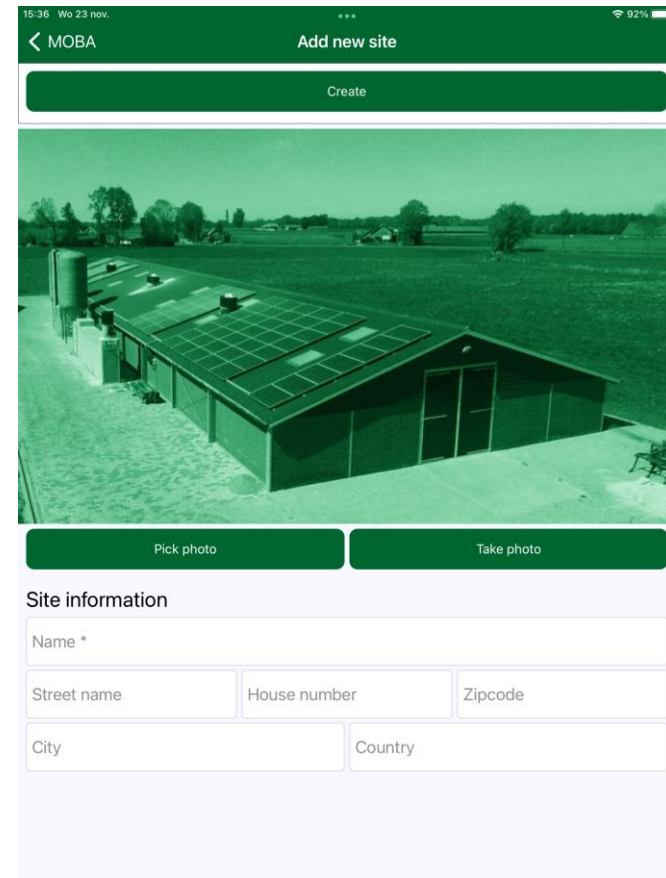
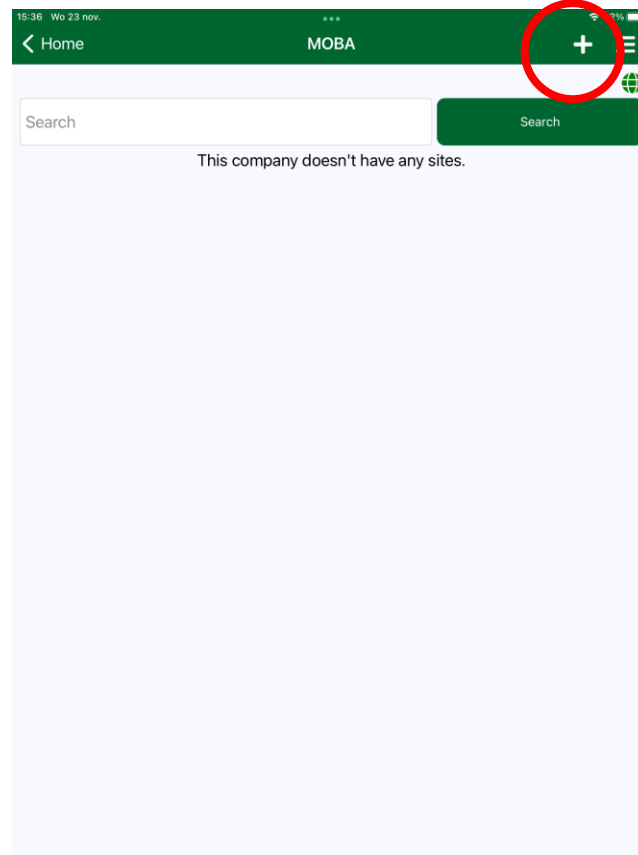
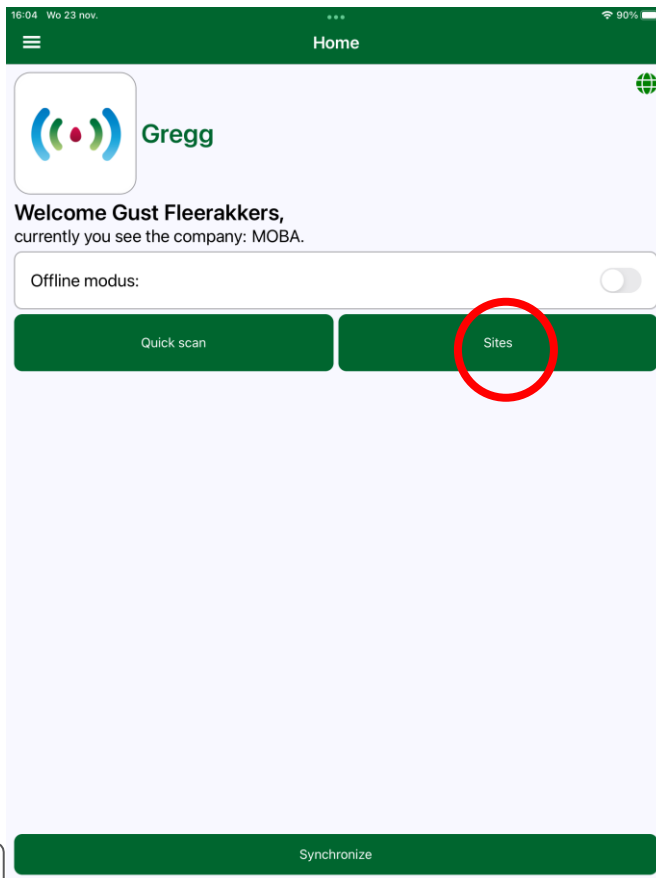
4. Perform measurements

5. New features



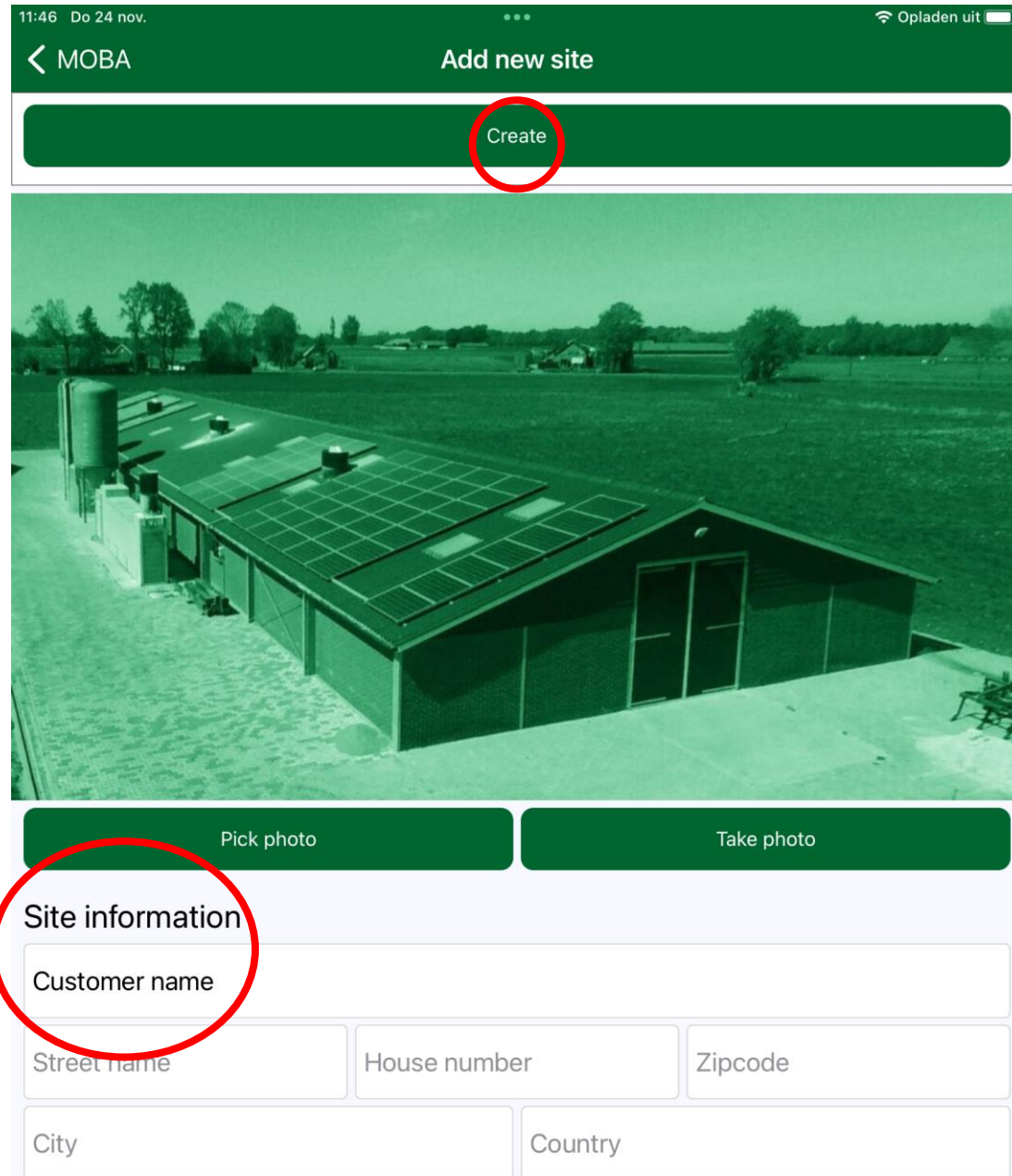
3. Preparing for measurements

- Open your home page* and touch “sites”**
- Touch the + button*
- Add a new site*



3. Preparing for measurements

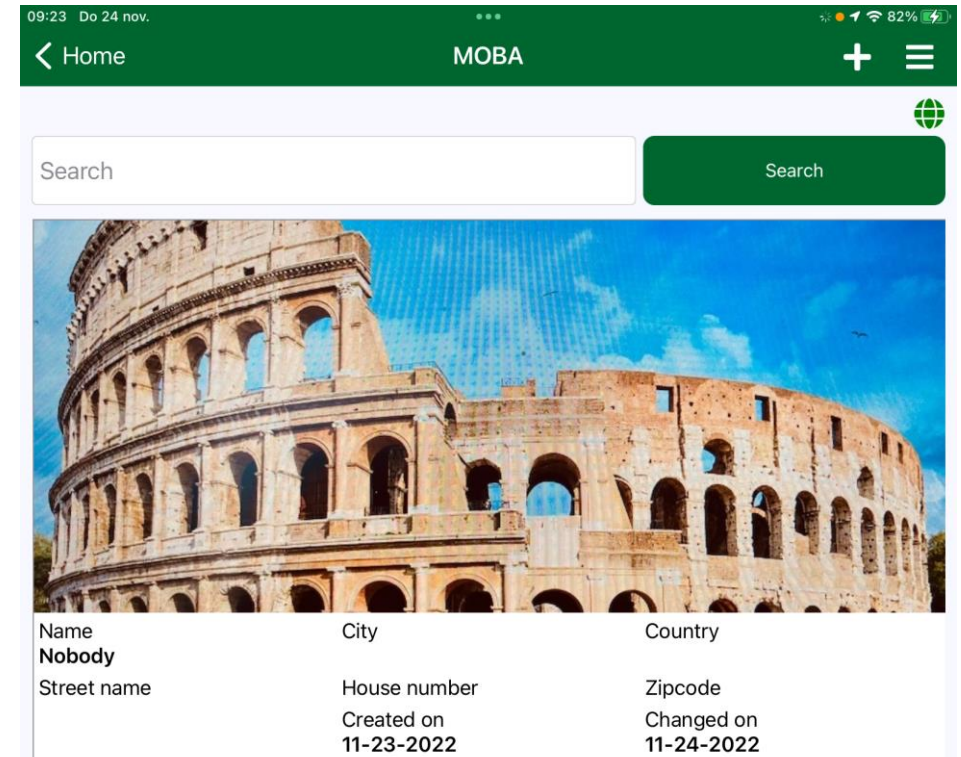
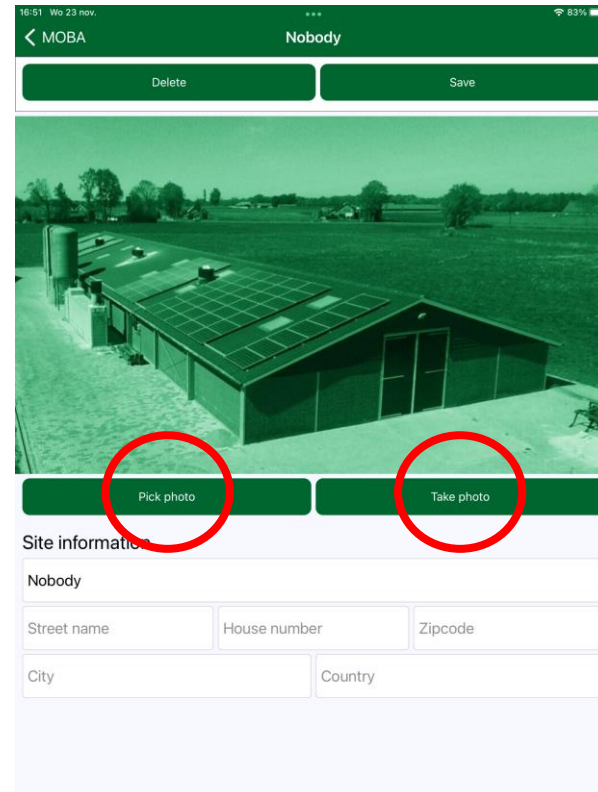
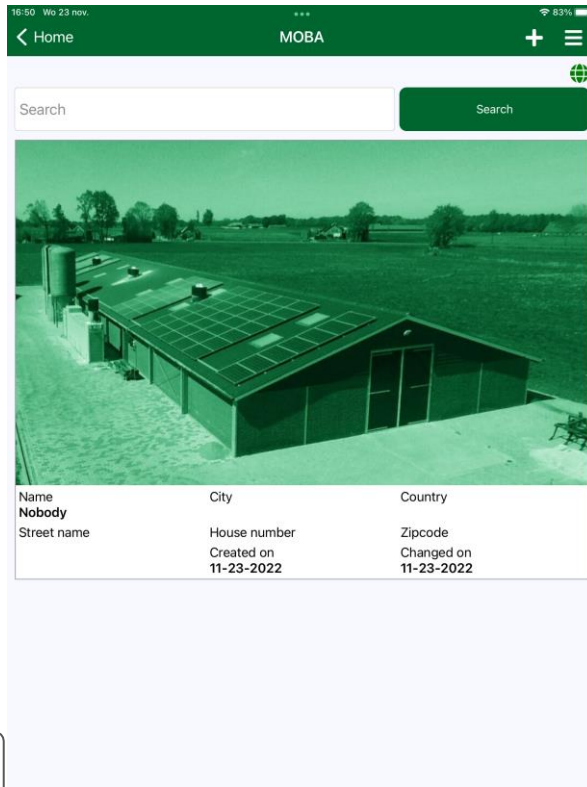
Give the site a new name and touch “create



3. Preparing for measurements

How to add a photo*:

- Home-sites
- Push/touch the photo for 2 seconds*
- Pick a photo* or take a photo* and follow the instructions*



3. Preparing for measurements

Explanation for the top bar



Information page opens

Switch between pages

Create new subfolder

Open Menu

- Just touch the photo from the site folder to open the subfolder Location, use the + button
- Fill in the needed information and save the location. Touch the location and the transition opens.
- Every subfolder works the same you just have to repeat the procedure
- Company (Moba)- Sites (home)- Location (chicken house)- Transities (eggbelt-Mainbelt vencobelt 40) - measurement (data and time)



3. Preparing for measurements

Preparing can be done at home or the office you just need to know*:

- Site = Customer name*.
- Location = which barn or egg packer room (dropbox)*.
- Transition = name the transition (dropbox)

← Add new site

CREATE

PICK PHOTO TAKE PHOTO

Site information

Name *

Street name House number Zipcode

City Country

← Add new location

CREATE

PICK PHOTO TAKE PHOTO

Location information

Location type * Clear

Comment

← Add new transition

CREATE

PICK PHOTO TAKE PHOTO

Transition information

Start object * Clear

Start type Clear

Start notes

End object * Clear

End type Clear

End notes

Via object Clear

Via type Clear

Via notes



legenda

1. Basic Gregg

2. Start-up GREGG app

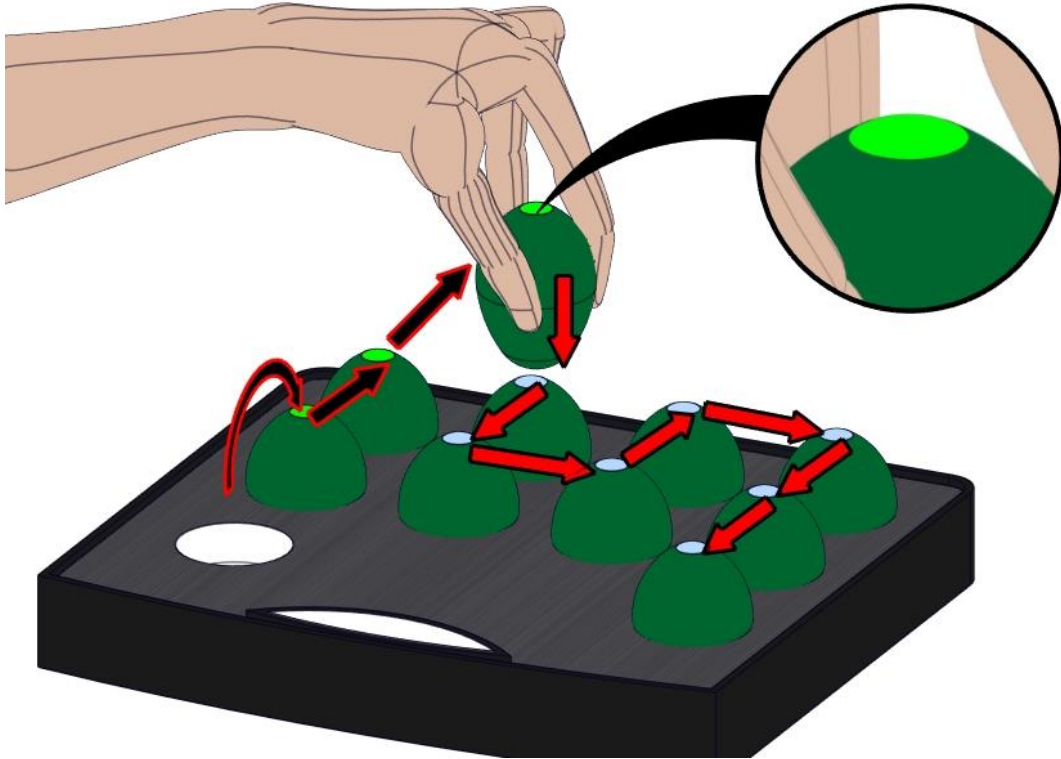
3. Preparing for measurements

4. Perform measurements

5. New features



4. Perform measurement



Using the Gregg:

- Open the menu - quick scan - search
- Tap the Gregg eggs in quick succession to wake them up. The LEDs flash green. The eggs remain active for a maximum of 1 minute during this phase.
- Check that the correct number of Gregg eggs is found on the interface.
- Position the eggs in front of the transition to be tested.

4. Perform measurement

1. Step 1* activate the eggs (searching*, Green dot*), and put the eggs at the transition you like to execute.*
2. Step 2 push* “start scan”* and the dot turn Blue*. Wait until* “stop scan” occur, now the eggs start to measure* impacts.
Do not push “stop scan”.*
3. After the transition is executed push* “stop Scan”.*
4. The eggs disconnect** (Red Dot) stop measuring** and the info is *collected.

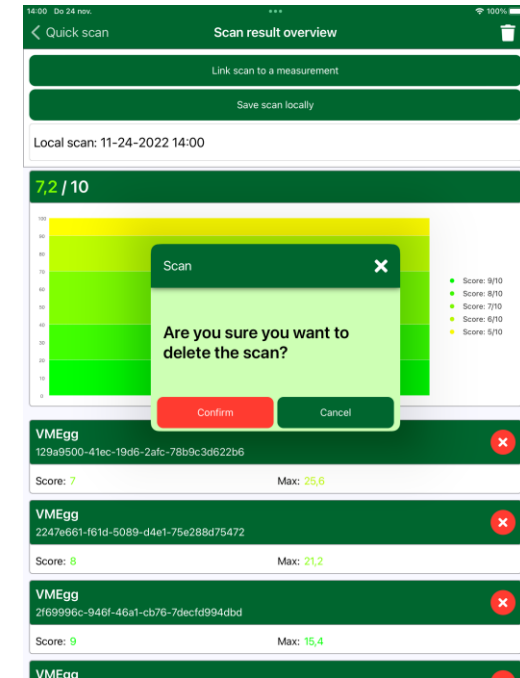
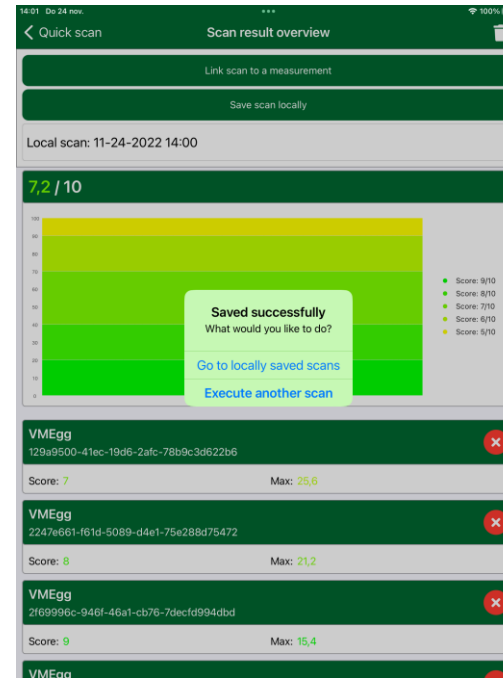
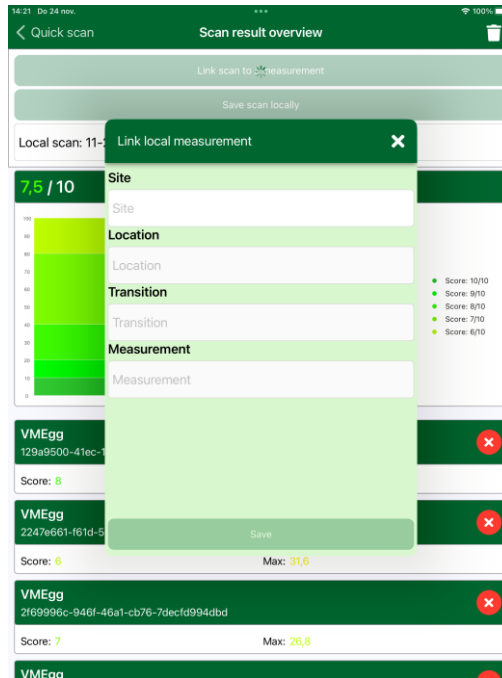
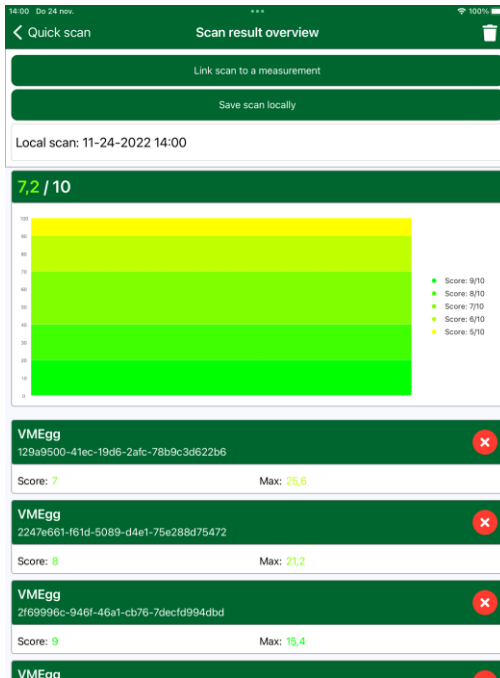
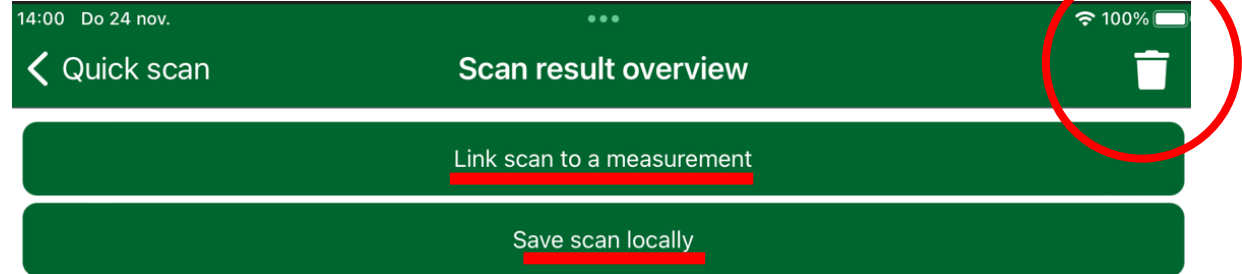
The image displays four sequential screenshots of a mobile application interface for a 'Quick scan' process. Each screenshot shows a list of VM eggs with their status and progress. Red circles highlight key UI elements: the status bar, the 'Start scan' button, and the 'Stop scan' button.

Stage	Status	Found	Connected	Collected
Searching	Green dot	7	0/7	0/7
Measuring	Blue dot	7	7/7	0/7
Collecting	Red dot	7	7/7	3/7

The 'Searching' stage shows a list of VM eggs with green dots and 100% progress. The 'Measuring' stage shows the same list with blue dots. The 'Collecting' stage shows the list with red dots and 100% progress. The 'Start scan' button is visible in the first two screenshots, and the 'Stop scan' button is visible in the last two screenshots.

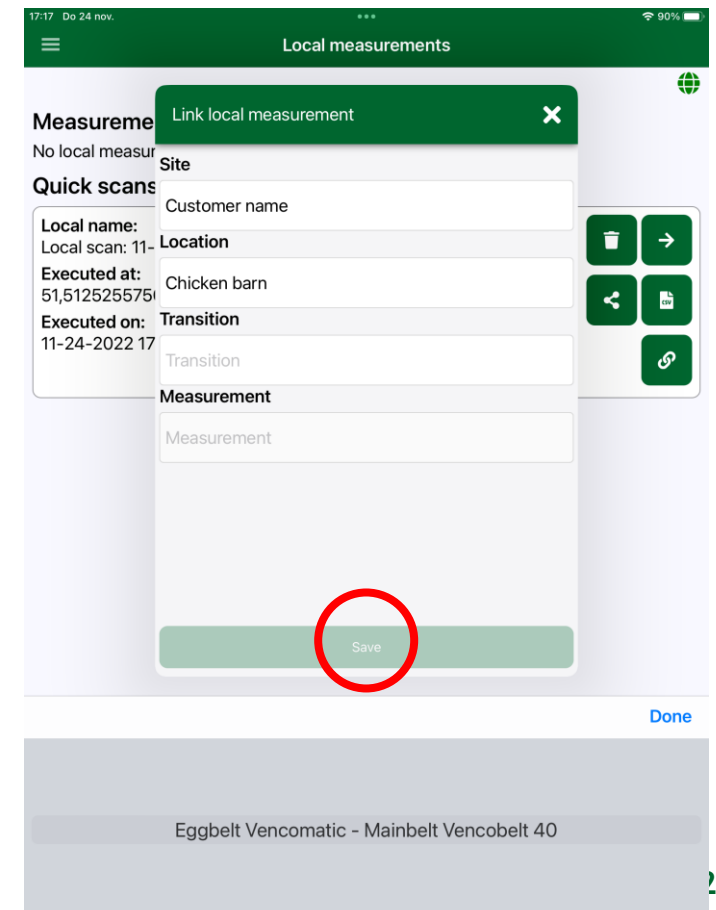
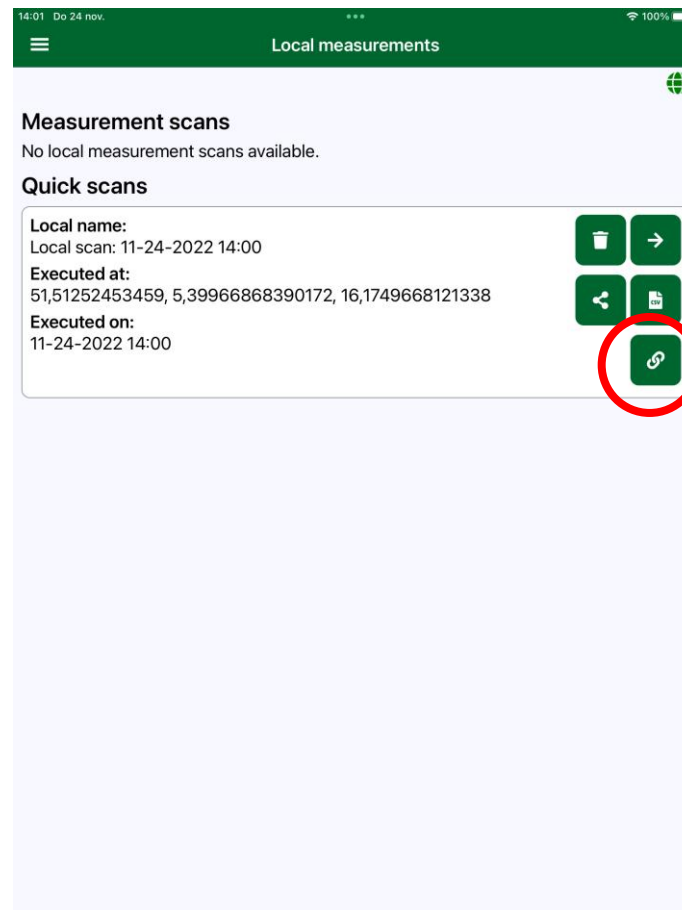
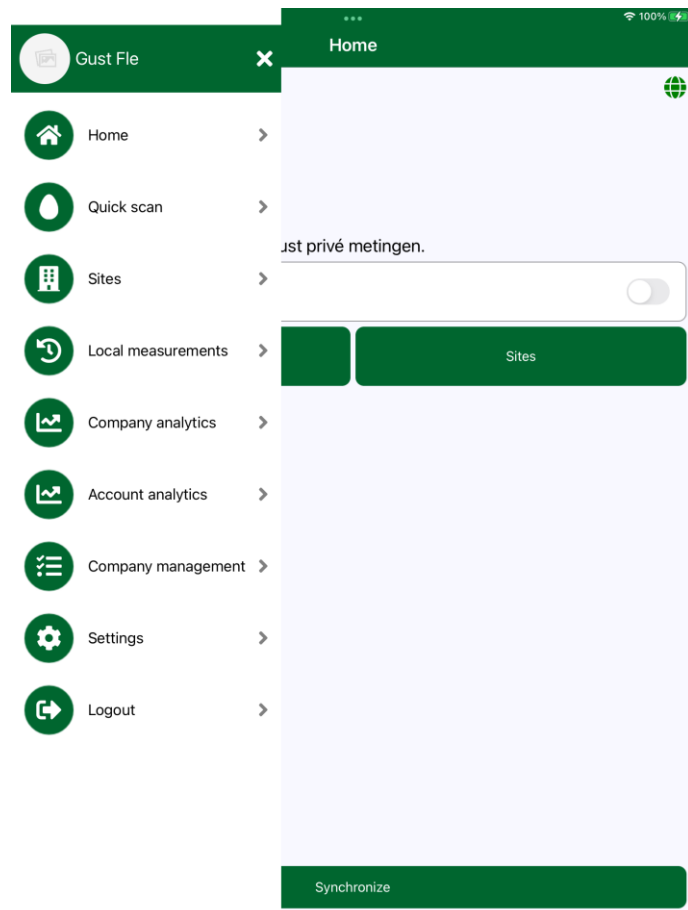
4. Perform measurement

- The scan result overview becomes visible*.
- Link scan to a measurement* - save scan locally* or delete*.



4. Perform measurement

- Menu* - local measurements - push  * and fill in were to store the measurement* - save.



legenda

1. Basic Gregg

2. Start-up GREGG app

3. Preparing for measurements

4. Perform measurements

5. New features



New features

1. Battery status* and Egg* Identification

VMEgg		
VMEgg	15572319	100%
VMEgg	10398674	100%
VMEgg	05878755	100%
VMEgg	10119729	100%
VMEgg	14603659	100%
VMEgg	04008722	100%
VMEgg	10942666	100%

1. Building reports

Company: Guat privé metingen
Site: Rijk van Dorin
Location: Stat 2
Transition: Noet Vencomatic - Eggbot Vencomatic
Created on: 9-1-2023

Name: 06-12-2023 13:21
Score: 7 / 10
Created on: 06-12-2023

Comment: Test voor pdf file
Scan conducted: 1
Changed on: 06-12-2023



New features

vodafone NL 4G 14:17 34%

< Home Quick scan ↻

● Searching

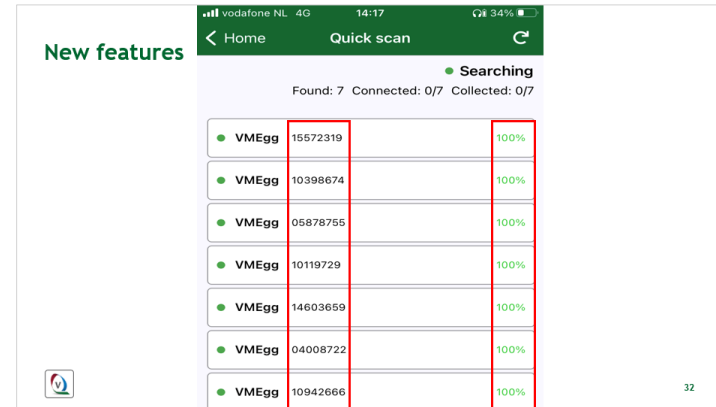
Found: 7 Connected: 0/7 Collected: 0/7

● VMEgg	15572319	100%
● VMEgg	10398674	100%
● VMEgg	05878755	100%
● VMEgg	10119729	100%
● VMEgg	14603659	100%
● VMEgg	04008722	100%
● VMEgg	10942666	100%



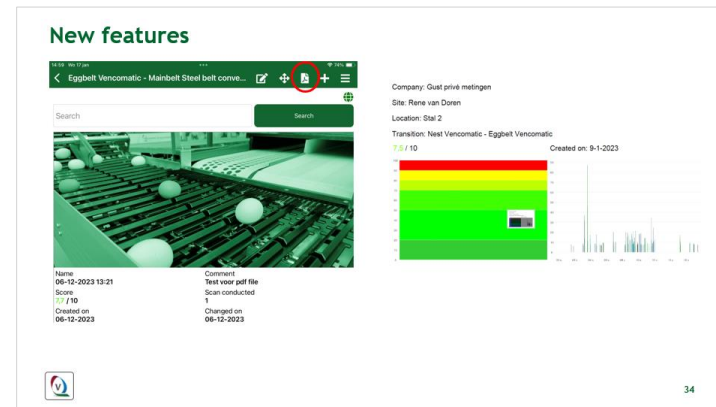
New features

1. *Battery status and *Egg Identification



VMEgg	ID	Status
VMEgg	15572319	100%
VMEgg	10398674	100%
VMEgg	05878755	100%
VMEgg	10119729	100%
VMEgg	14603659	100%
VMEgg	04008722	100%
VMEgg	10942666	100%

1. *Building *reports



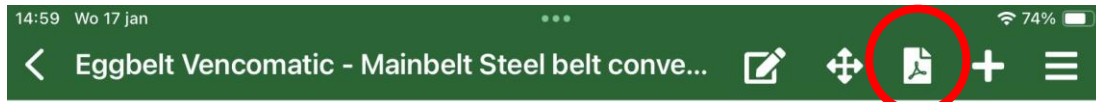
Company: Gust privé metingen
Site: Rene van Daren
Location: Stal 2
Transition: Nee! Vencomatic - Eggbelt Vencomatic
7.5 / 10 Created on: 9-1-2023

Name: 06-12-2023 13:21
Score: 7.5 / 10
Created on: 06-12-2023

Comment: Test voor pdf file
Scan conducted: 1
Changed on: 06-12-2023



New features



Search Search



Name
06-12-2023 13:21
Score
7,7 / 10
Created on
06-12-2023

Comment
Test voor pdf file
Scan conducted
1
Changed on
06-12-2023

Company: Gust privé metingen

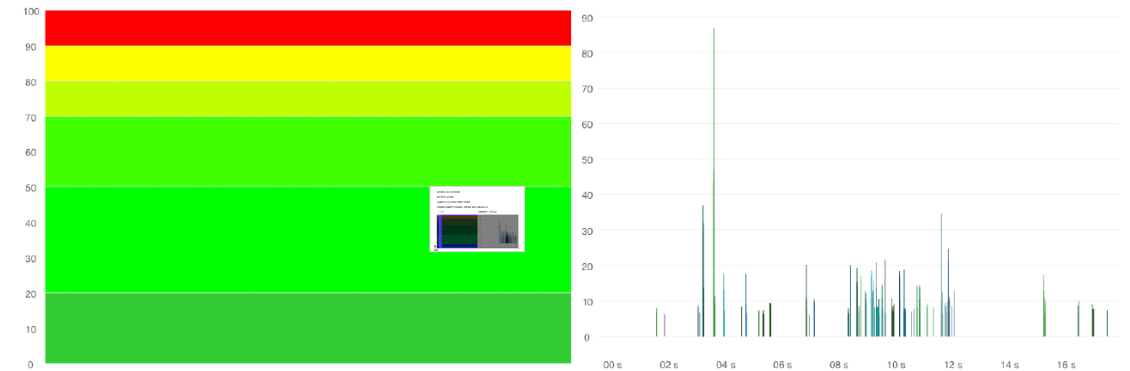
Site: Rene van Doren

Location: Stal 2

Transition: Nest Vencomatic - Eggbelt Vencomatic

7,5 / 10

Created on: 9-1-2023



Company: Gust Vencomatic

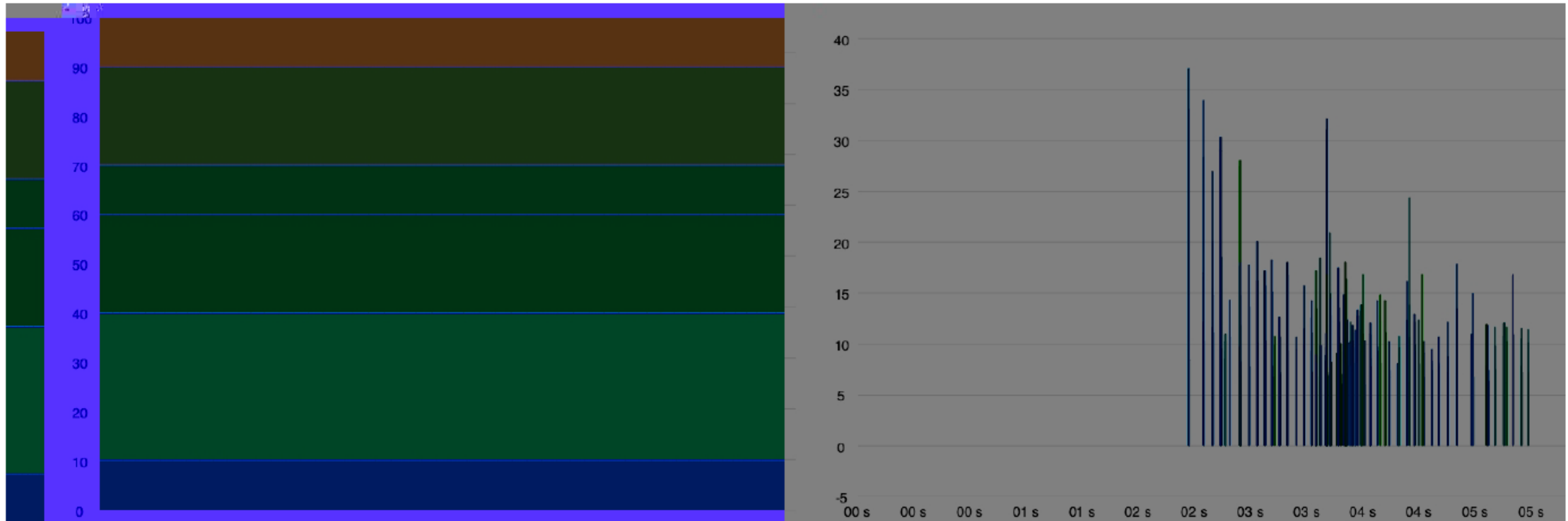
Site: Minhe veranda

Location: 2 row veranda 15360 chickens

Transition: Eggbelt Vencomatic - Mainbelt Steel belt conveyer

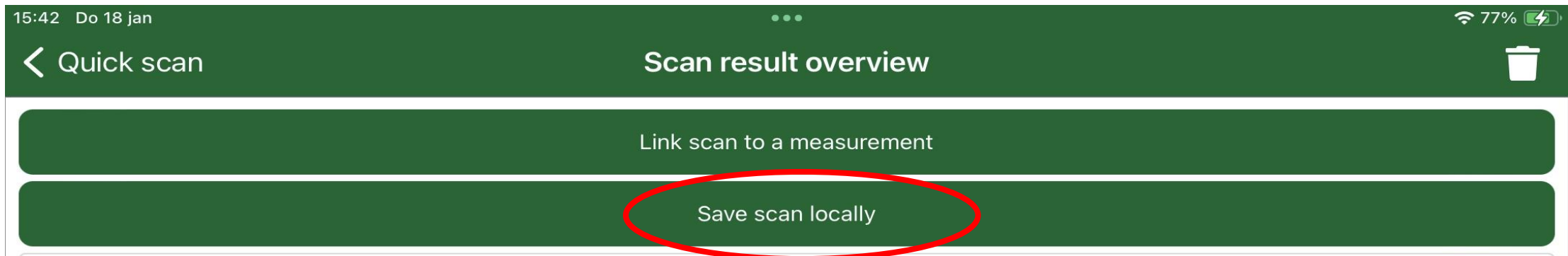
7,7 / 10

Created on: 12-6-2023



F.A.Q.

1. Why is it that a quickscan often shows different values?
 - Quickscan measurements are often performed with only the crack eggs. You get the best measurements when the eggs are between the daily egg flow.
2. What should You do if one or more eggs get “stuck” in the connection?
 - Disconnect the bluetooth connection with the gregg eggs. Wait until the eggs are no longer “active”, restore bluetooth and restart the App.
3. Can you perform measurements without an internet connection?
 - Yes, if you do not have an internet connection, you can always perform a quickscan* and save it*.





Thanks

