Fjord – Design challenge

Theo Nordahl

Thursday, 19 November 2020

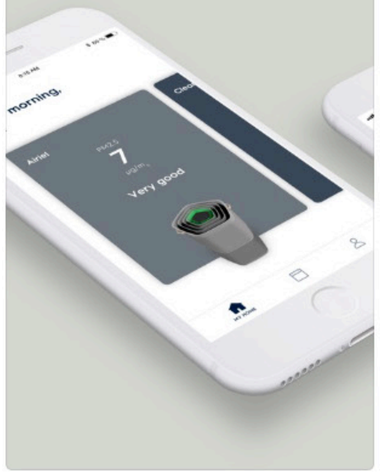
www.theonordahl.com

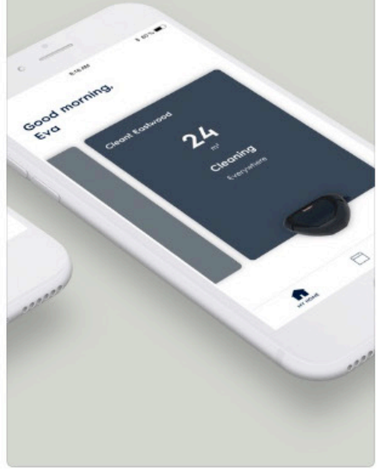
1. Design process

1.1 Research

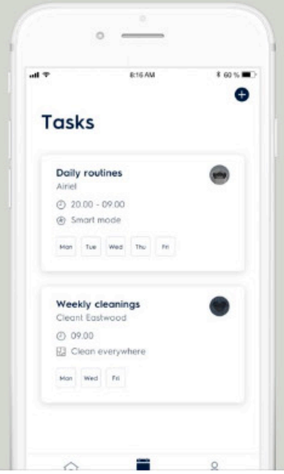
Thursday, 19 November 2020

Come home to clean.

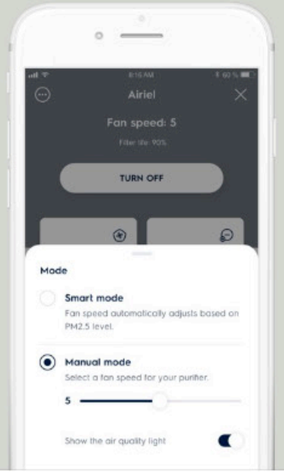




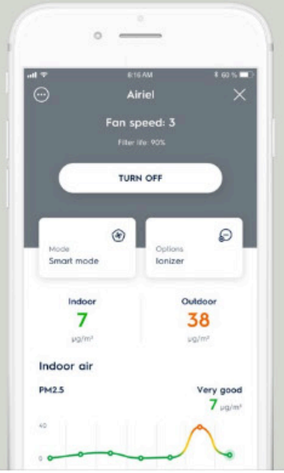
Schedule tasks.



Control from anywhere.



Get real-time data.



New "Wellbeing" app

mauris Member ★ October 22

Electrolux is now pushing outthe new "Wellbeing" app, with message that it will replace purei9 app.

I really hope that we can keep the old app in use, until the new app will have at least the same features as the old one.

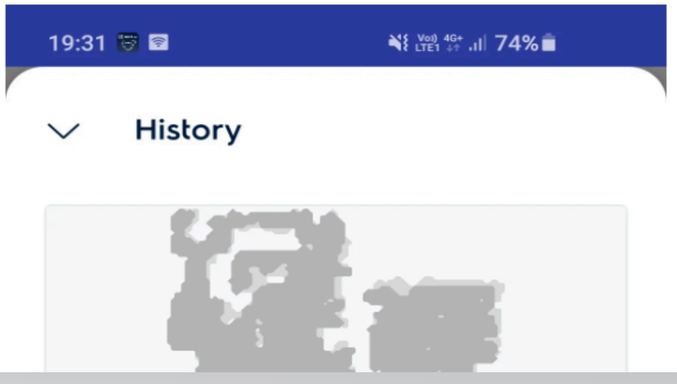
Now the history display in the Wellbeing app looks very bad:

- No maps of previous cleaning runs.

- No total cleaning time or area.

- Statistics only for last 6 months.

Screenshots for comparison.



REVIEWS

Review Policy

Write a Review

2.0

289 total

5
4
3
2
1

Jonas Yamazaki

November 6, 2020

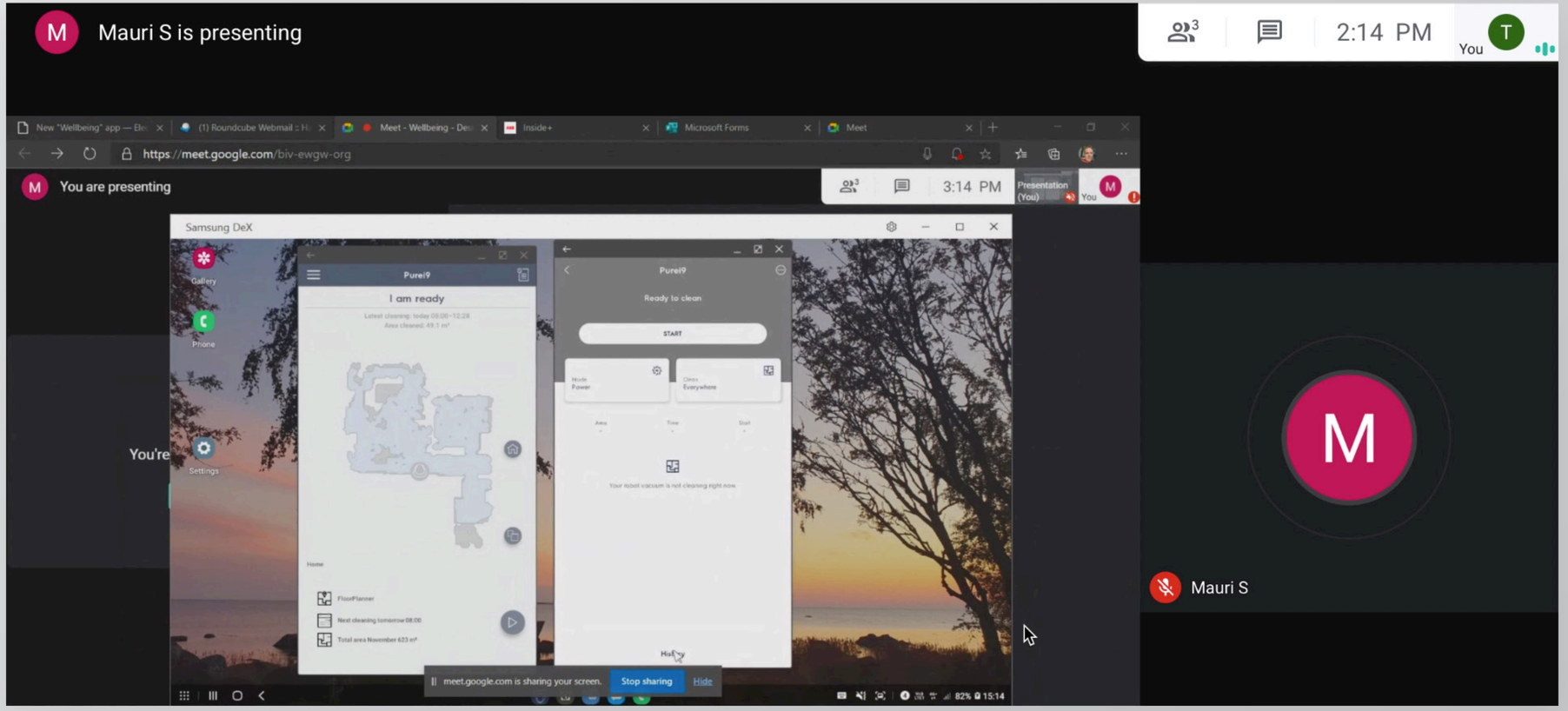
1

Should be zero stars. Maybe its a good app. But how can you know? Cant even connect to your devices. Updated to 3 stars: Got it working, not sure why it wouldnt connect the first couple of times. App is okay except that its very slow to open and sometimes it will say "service unavailable" and i have...

Full Review

AB Electrolux November 9, 2020

Most of the things you mention should have been ironed out from the experience. The last parts to remove most known shortcomings is lauching next week. Hope you see an improvement over time We would really like to help out. Could you please contact us on info.wellbeing@electrolux.com we will do our best to solve the issue


Mauri S is presenting
2:14 PM
You
https://meet.google.com/biv-ewgw-org
You are presenting
3:14 PM
Presentation (You)
You
Samsung DeX
Gallery
Phone
Settings
Pure9
I am ready
Pure9
Ready to clean
START
meet.google.com is sharing your screen.
Stop sharing
Hide
You're
M
Mauri S

“I think that the number one priority, at least for a user like me, would be reliability.”

Robot Vacuum Cleaner Personality and Behavior

Bram Hendriks · Bernt Meerbeek · Stella Boess ·
Steffen Pauws · Marieke Sonneveld

Accepted: 14 November 2010 / Published online: 23 December 2010
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How Anthropomorphism Affects Empathy Toward Robots

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& Peter Robinson*

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University of Cambridge
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University of Cambridge
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bc249@cam.ac.uk

Why people become strangely attached to their robot vacuum cleaners

Kate Darling researches human-robot interaction. She explains why we are prone to forming emotional connections with robots and what we can learn from our relationships with pets and other animals

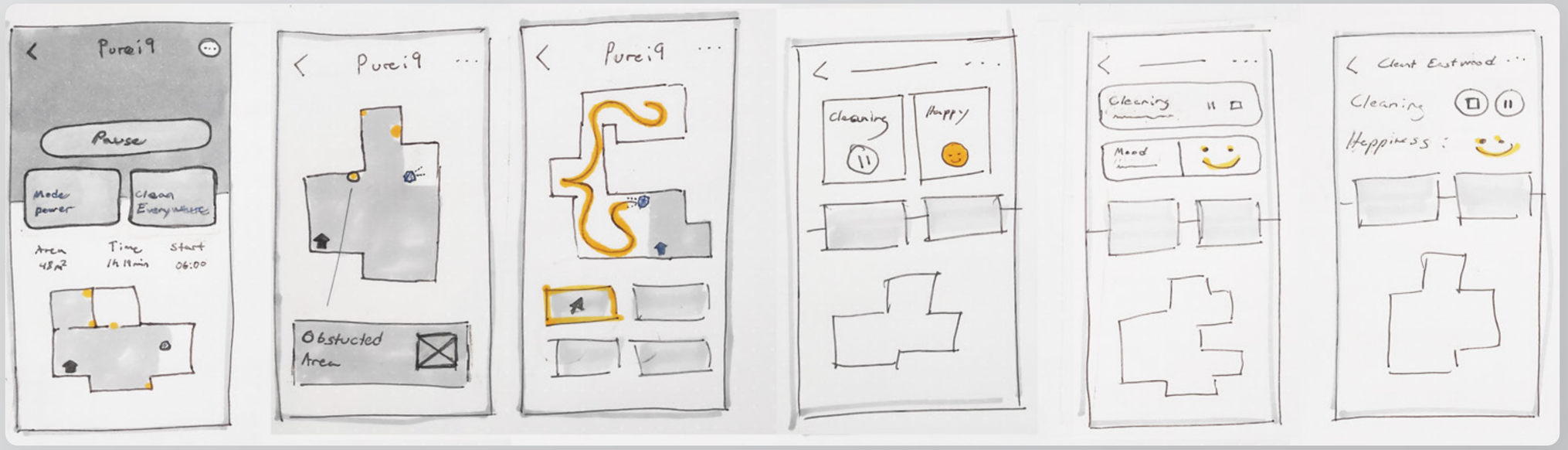
TECHNOLOGY 18 March 2020

1. **The engineer –**
   Pracital, busy, technical interest, wants reliability

2. **The pet owner –**
   Empathetic, might have more free time, creative

1. Design process
1.2 Ideation

Thursday, 19 November 2020


Pure i9
Pause
Mode
power
Clean
Everywhere
Area
48m²
Time
1h 19min
Start
06:00
Pure i9
Obstucted
Area
Pure i9
Cleaning
Happy
Cleaning
Mood
Client Eastwood
Cleaning
Happiness :

Reviews and Feedback

Problems/Design Opportunities

that the

Unreachable points

Not trusting that the robot has done the job properly

The robot has a camera that detects things close to the ground

Implement mic?

Voice commands?

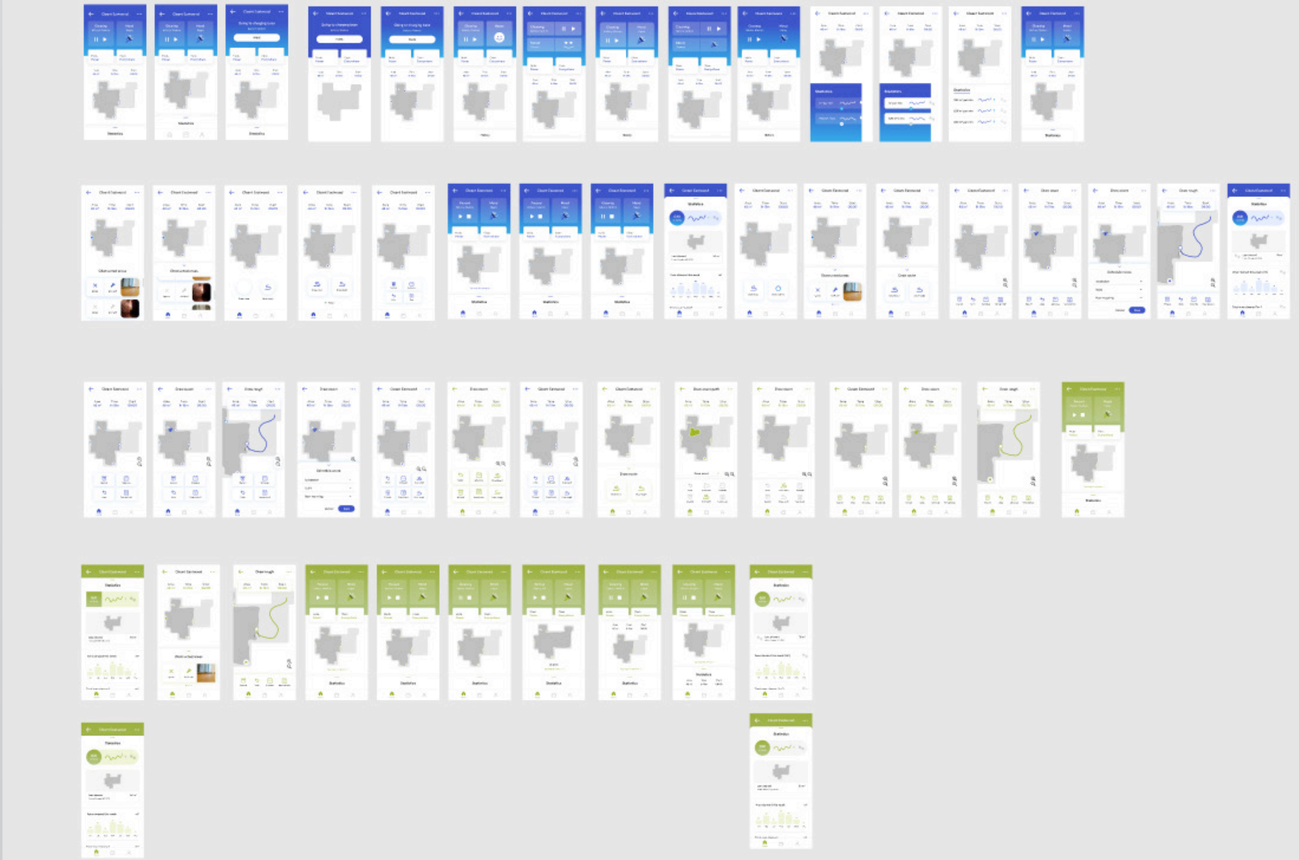
Bounce ball

Further build a relationship between robot and human

Evaluation and Learning progression (Raise a puppy)

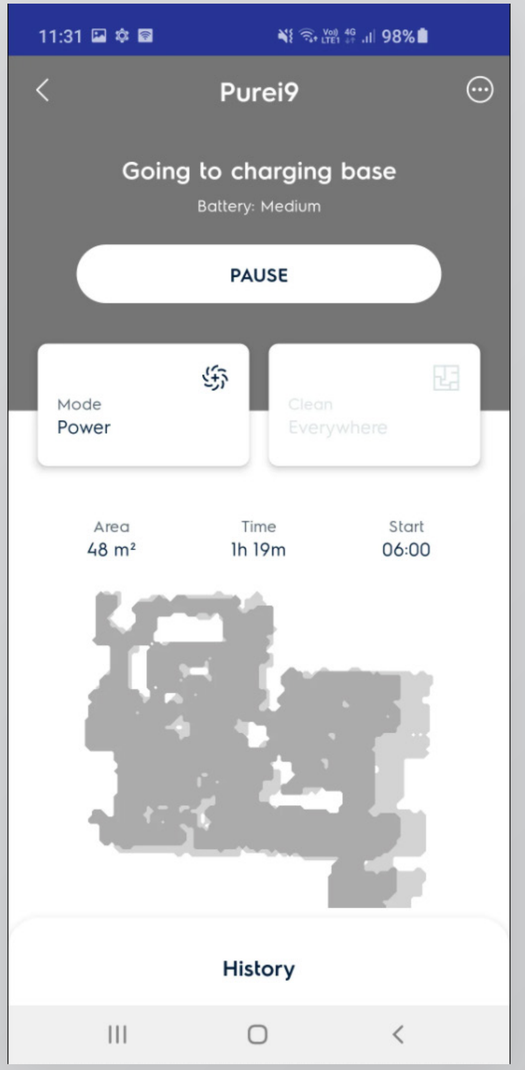
1. Design process
1.3 Iteration

Thursday, 19 November 2020

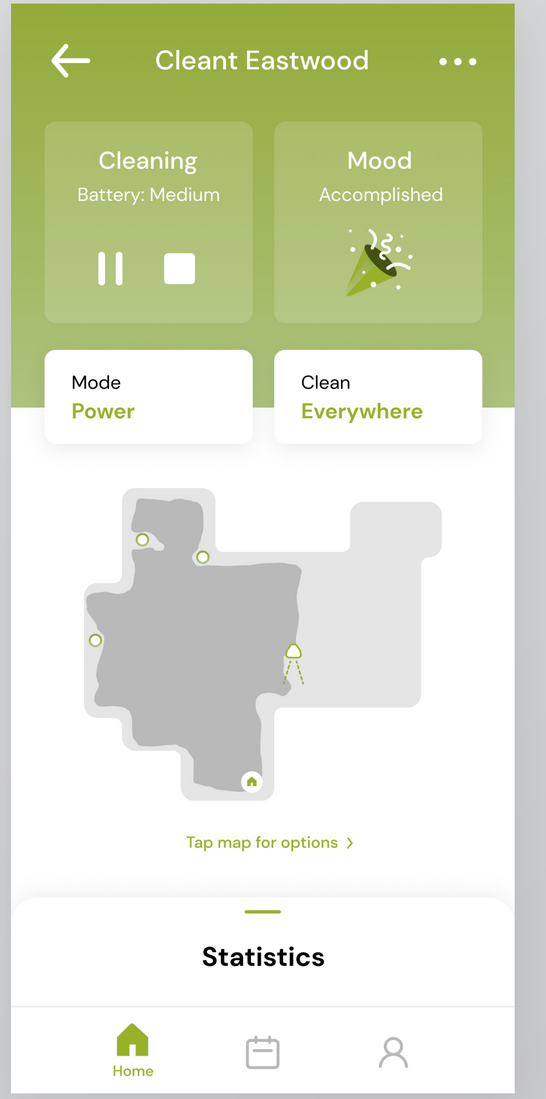


2. Final design
2.1 Visual direction

Thursday, 19 November 2020


11:31
98%
Purei9
Going to charging base
Battery: Medium
PAUSE
Mode
Power
Clean
Everywhere
Area
48 m²
Time
1h 19m
Start
06:00
History

11:31
98%
Purei9
Going to charging base
Battery: Medium
PAUSE
Mode
Power
Clean
Everywhere
Area
48 m²
Time
1h 19m
Start
06:00
History


Cleant Eastwood
Cleaning
Battery: Medium
Mood
Accomplished
Mode
Power
Clean
Everywhere
Tap map for options
Statistics
Home

2. Final design
2.2 Enhanced map

Thursday, 19 November 2020

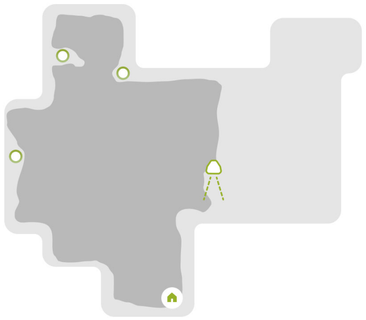
Cleant Eastwood

Cleaning
Battery: Medium

Mood
Accomplished

Mode
Power

Clean
Everywhere

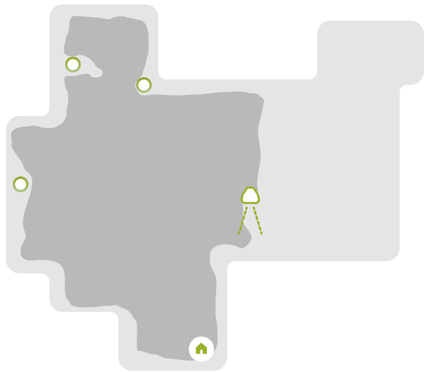


Tap map for options ›

Statistics

Home

Cleant Eastwood

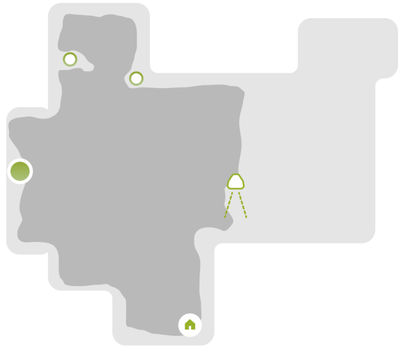


Custom path

Obstructions

Home

Cleant Eastwood

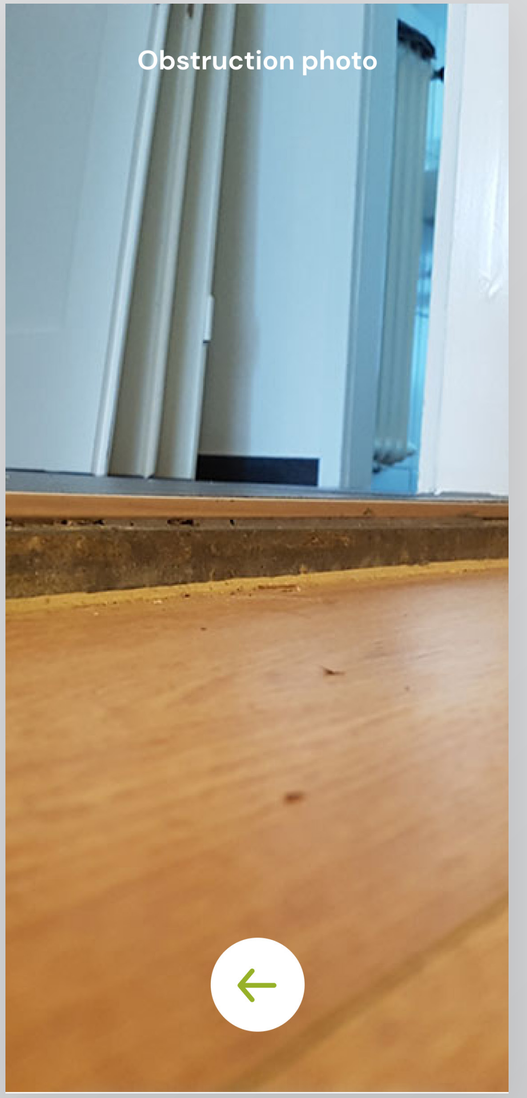


Obstructed areas

Ignore

It's fixed!

Home


Obstruction photo

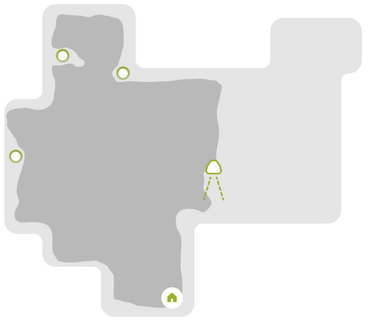
Cleant Eastwood

Cleaning
Battery: Medium

Mood
Accomplished

Mode
Power

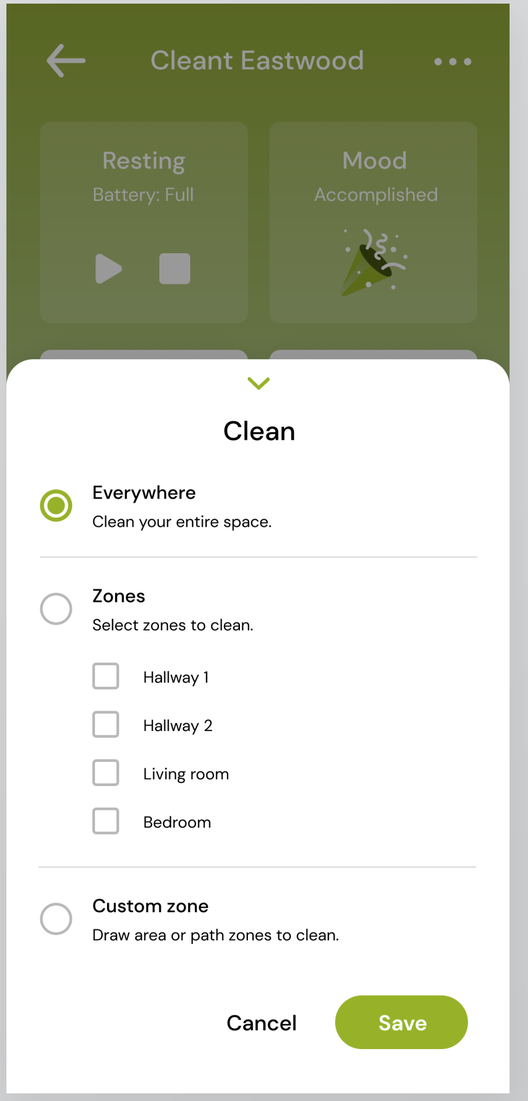
Clean
Everywhere



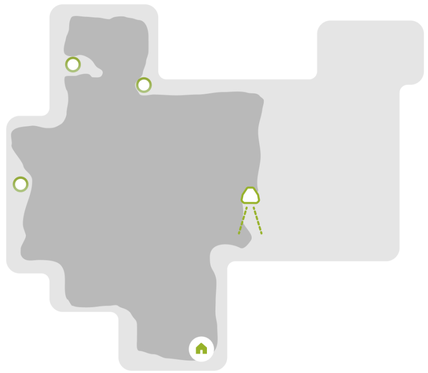
Tap map for options ›

Statistics

Home


Cleant Eastwood
Resting
Battery: Full
Mood
Accomplished
Clean
Everywhere
Clean your entire space.
Zones
Select zones to clean.
Hallway 1
Hallway 2
Living room
Bedroom
Custom zone
Draw area or path zones to clean.
Cancel
Save

Cleant Eastwood

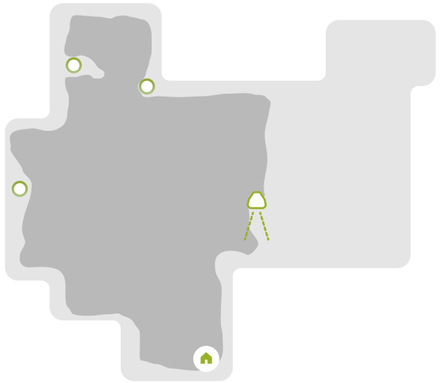


Custom path

Obstructions

Home

Draw rough path



Draw exact

Undo

Draw area

Schedule

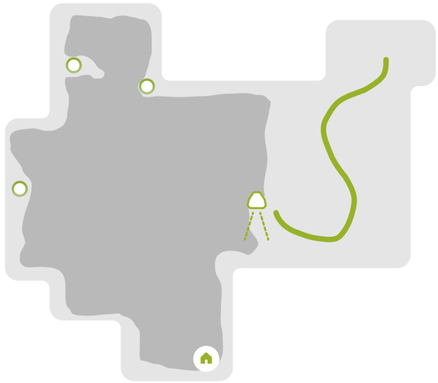
Discard

Draw path

Save & exit

Home

Draw rough path



Draw exact

Undo

Draw area

Schedule

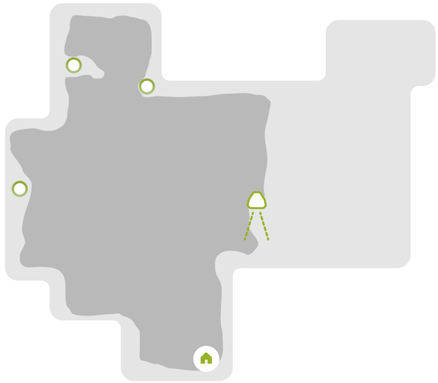
Discard

Draw path

Save & exit

Home

Draw exact path



Draw exact

Undo

Draw area

Schedule

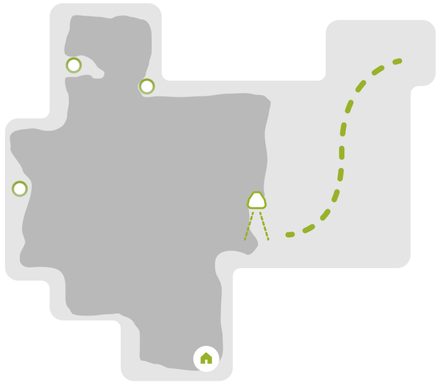
Discard

Draw path

Save & exit

Home

Draw exact path



Draw exact

Undo

Draw area

Schedule

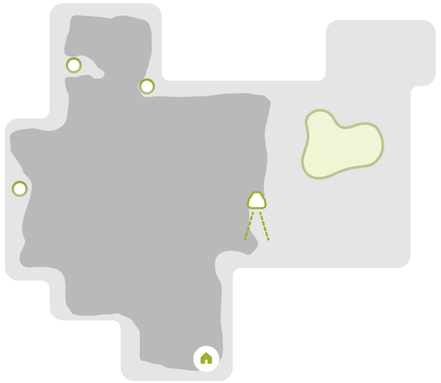
Discard

Draw path

Save & exit

Home

Draw area



Undo

Draw area

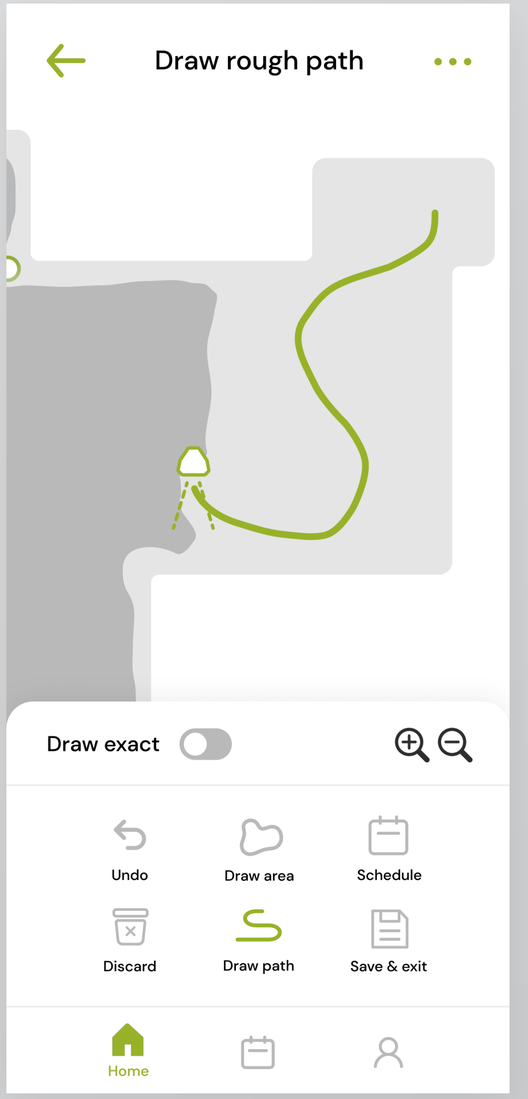
Schedule

Discard

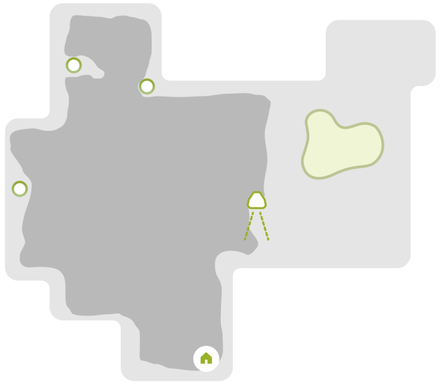
Draw path

Save & exit

Home


Draw rough path
Draw exact
Undo
Draw area
Schedule
Discard
Draw path
Save & exit
Home

Draw area



Schedule route

14 Oktober

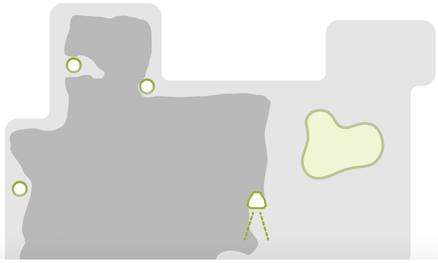
12:30

Non-recurring

Cancel

Save

Draw area



Schedule route

14 Oktober

12:30

- Non-recurring
- Every day
- Every week
- Every month
- Every year

2. Final design

2.3 Pure i9 moods

Thursday, 19 November 2020

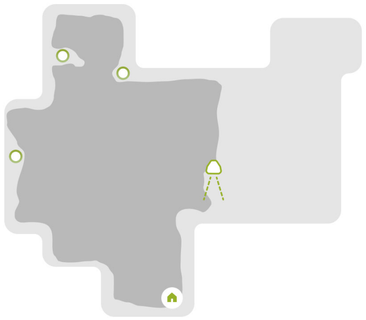
Cleant Eastwood

Cleaning
Battery: Medium

Mood
Accomplished

Mode
Power

Clean
Everywhere



Tap map for options ›

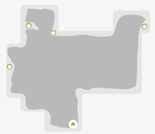
Statistics

Home

Cleant Eastwood

Statistics

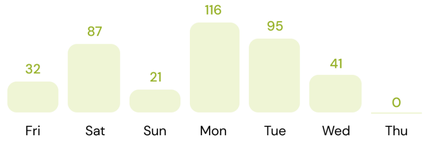
0.61
m²/min



Last cleaned
Friday, October 30, 2020

78 m²

Area cleaned this week (m²)



Total area cleaned (m²)

Home

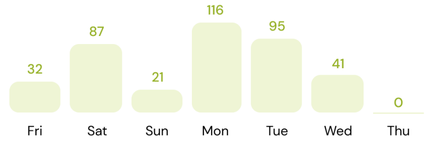
Cleant Eastwood

Statistics

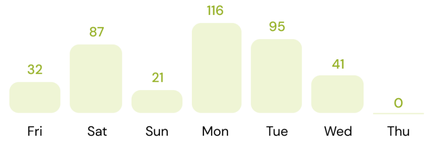
Area	Time	Start
48 m²	1h 19m	06:00

0.61
m²/min

Area cleaned this week (m²)



Total area cleaned (m²)



Home

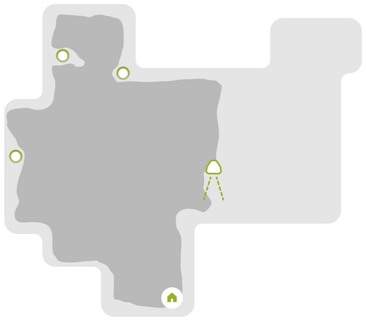
Cleant Eastwood

Cleaning
Battery: Medium

Mood
Accomplished

Mode
Power

Clean
Everywhere



Tap map for options ›

Statistics

Home

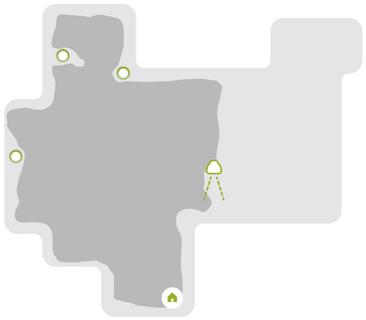
Cleant Eastwood

Cleaning
Battery: Medium

Mood
Accomplished

Mode
Power

Clean
Everywhere



Tap map for options ›

Statistics

Home

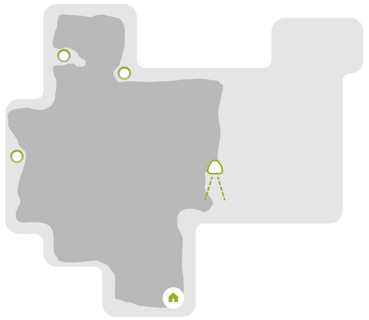
Cleant Eastwood

Cleaning
Battery: Medium

Mood
Hungry

Mode
Power

Clean
Everywhere



Tap map for options ›

Statistics

Home

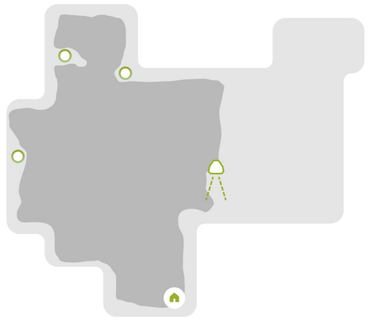
Cleant Eastwood

Cleaning
Battery: Low

Mood
Tired

Mode
Power

Clean
Everywhere



Tap map for options ›

Statistics

Home

Thank you for your time!