nobi

Fall Detection Training



Where we are today

Welcome to Nobi

Shipping

Prepare the installation

4

Configuration meeting

Together we go over the possibilities in configuring

Fall detection training

The team learns how to use Nobi's fall detection.

End-users, Care personnel

At client. 2h

Nobi goes live

Congratulations! Nobi's smart lights are going in use today.

11

Smart care training

Now that you've mastered fall detection, we'll introduce you to our other features for smart, future-proof care. Think of fall prevention, sleep analysis or night vigilance.

Operations Manager

Online meeting













A

At client. 1h

Getting to know Nobi

Installation **Nobi lights**

Prepare fall detection training

fall detection training

Ready for launch?

10

Together, we review whether you are ready for Nobi to go live.

Operations Manager

Online, 0.5h

Follow-up

For the first two weeks. we will keep a close eye on your lights and make adjustments as needed.

Operations Manager

Online, 2 weeks



Objective

In this training, we will guide you step-by-step on how Nobi's smart AI lights will support you in your job.

Focus of this training: fall detection.

You will learn:

- How Nobi detects falls
- How Nobi alerts you to a fall so you can provide quick assistance
- How to close a fall escalation in the system afterwards.

Together, we are preparing for the moment our smart lights go 'live': when they will also detect falls, in addition to providing light.



Agenda

- 1 Fall Facts
- What is Nobi?
- What is a fall according to Nobi?
- How does Nobi work?
- 5 Privacy
- 6 Nobi exercises
- 7 Need help?
- 8 What's next?



Chapter 1
Fall Facts



Did you know that ...



Every second,
a person over the age
of 65 falls.



Every 11 seconds, a person over the age of 65 is admitted to the emergency room after a fall.



Every 19 minutes, a person over the age of 65 dies as a result of a fall.

Let's change those statistics!

The solution?



Detect 100% of falls Also the 64% of falls that go unnoticed



Immediate assistance

Also for the 82% of fallers that are unable to call for help with traditional nurse call systems.

Fast help:

- Decreases risk of serious injury
- Decreases risk of hypothermia
- Decreases anxiety and psychological stress



Prevent falls

Prevention to solve one of the biggest challenges of our fast aging society



Al technology can help you make a change!

Chapter 2

Meet Nobi

Meet Nobi

Nobi is a smart Al-light that

- detects a fall and seeks help for the resident while also emitting light.
- prevents falls
- supports our busy care givers providing even better, smarter care.

Nobita,

 the little sister of Nobi, operates similarly but is designed with different housing to withstand the temperatures and humidity of bathrooms and kitchens.



Fall Detection



Fall Prevention



Better & smarter care



Chapter 3

What is a fall according to Nobi?

What is a fall according to Nobi?

A person that **unintentionally** ends up at a lower level.

When Nobi observes someone
sitting or lying on the ground,
it will issue a fall alert.
(max 90 seconds after the incident)



What is a fall according to Nobi?



The falling speed doesn't matter

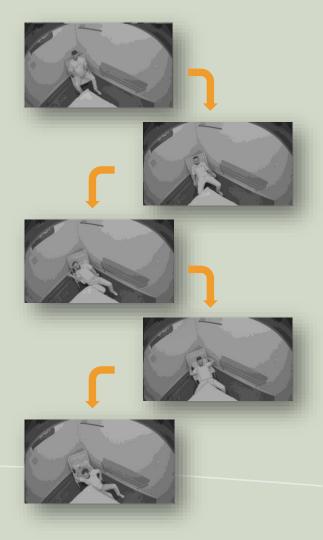
Nobi also registers slow falls

(unlike a smartwatch)



Important to know:

Nobi is <u>not</u> a motion detection device. Nobi just looks at poses.



Chapter 4

How does Nobi work?

Nobi's AI analyzes anonymized poses

Nobi analyzes 'poses', not body images.

- Nobi's optical sensors take a picture every second
- Nobi locally interprets the image in the lamp
- Nobi analyzes the pose of the person (anonymized stick figure) and the bed



Nobi distinguishes 3 different poses:

- Sitting (bed/chair/ground)
- Standing
- Lying down (bed/ground)



For Nobi to work as a smart light, it needs the resident's permission



What Nobi can do for you & your residents



1. Fall Detection



2. Fall Prevention

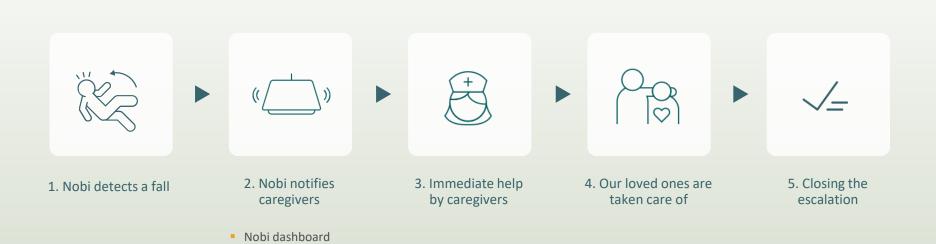


3. Better & smarter care

1. Fall Detection



1. Fall Detection



Phone or nurse call system
 Additionally via e-mail and/or in-app push message

Step 1 Nobi detects a fall



Nobi observes someone sitting or lying on the ground.

When **Nobi detects a fall** or when the resident **presses** the **panic button**, Nobi activates the escalation procedure.

Nobi then alerts care staff so they can provide immediate help.







Step 2 Nobi notifies caregivers







Step 2 Nobi notifies caregivers



Option 1: Sound in the room ◀》

When Nobi detects a fall, a voice in the lamp asks the person in the room: 'did you fall?'







Option 2: No sound in the room ◀×





WHY?

In some situations, it might not be beneficial for the light to speak to the resident.

People with dementia for instance could experience disorientation or fear when the light seemingly speaks out of nowhere.

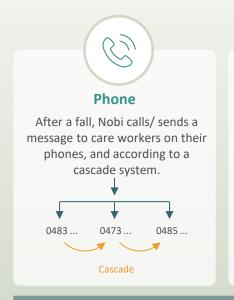




Different alerting channels

Care institutions can choose the channels through which Nobi should alert caregivers after a fall or when the panic button is pressed.

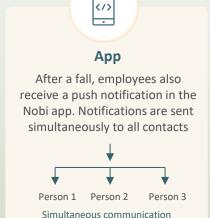
In addition to notification on the Nobi Dashboard, the following options are available:





Nurse call system

The way a fall is reported depends on the respective nurse call system.









Via phone call

Nobi calls you



Step 1

'Hello, this is Nobi, a fall has been detected at "name of the resident", room 416.



Step 2

Press 1 to confirm.

This way,
you let Nobi know
help is on the way



Step 3

You make your way to the room.

EXAMPLE

"Mr Peters, this is Irene. I understand you fell?"

"Yes, I need help. My knee..."

"I'll be there right away, it's alright."

"I must have stumbled, oh..."

"It's ok, try to stay calm, I'm almost there."

"Ok, thank you."





Via phone call

Priority list of emergency contacts, ensuring the call is always answered



Contact # 1: Phone number one

(other mobile numbers get an alert by SMS 'Nobi detected a fall in room 418')



Contact # 2: Phone number two

(other mobile numbers get an alert by SMS 'Nobi detected a fall in room 418')



Contact # 3: Phone number three

other mobile numbers get an alert by SMS 'Nobi detected a fall in room 418')







Via nurse call system

Nobi seamlessly integrates with multiple nurse call systems.

The method of receiving alerts through the system varies based on the settings of each individual system.

Way of working of the respective nurse call system to be added by Nobi-representative





After a fall, employees also receive an email. Emails are sent simultaneously to all contacts.















In app notifcations

After a fall, employees also receive a push notification in the **Nobi app.** Notifications are sent simultaneously to all contacts







Step 3 & 4 Help the resident & close the fall alert



Step 3: Enter the room and help the resident



Step 4:

close the escalation

Why important?

Your colleagues and Nobi now know that the resident is taken care of

OR

Nobi is now ready to detect falls again

How?

• First, push the presence button when you enter the room. Then proceed to help the resident.

Push the Presence Button

- The escalation is now closed.
- Nobi will also prevent further fall alerts for 15 minutes (snooze)
- After 15 minutes, Nobi can create again a new fall alert

Close in the app

- First, help the resident. Then close the fall in the app.
- After closing the fall in the Nobi app, Nobi knows it can detect new falls again.







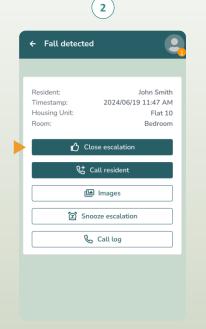


Step 5 Close the escalation



How to close a fall in the Nobi application?









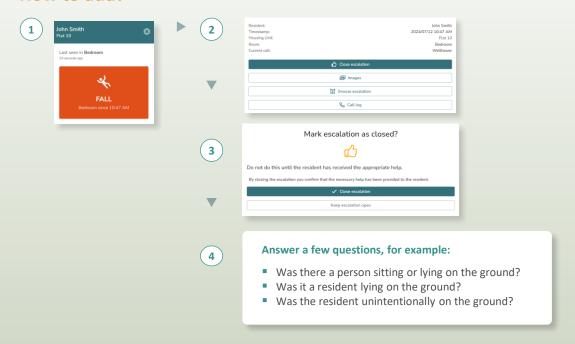
Step 6 Add cause of the fall





After helping the resident and closing the escalation, the care worker can enter the cause of the fall for future reporting. This can be done via the dashboard of the Nobi app.

How to add?





7100011011

Have you closed an escalation using the existing nurse call system or the 'Presence button'?

Then don't forget to still enter the cause of the fall via the Nobi Application!

Step 6 Add cause of the fall





After helping the resident and closing the escalation, the care worker can enter the cause of the fall for future reporting. This can be done via the dashboard of the Nobi app.

Relevant fall causes for your facility

Specific causes of a fall, relevant for client's facility to be added by Nobi-representative



Did you know?

You can ask Nobi to pause its fall detection for 15 minutes?





This is very useful when you perform care activities that Nobi will interpret as a fall, triggering an alert you don't want. Think of:

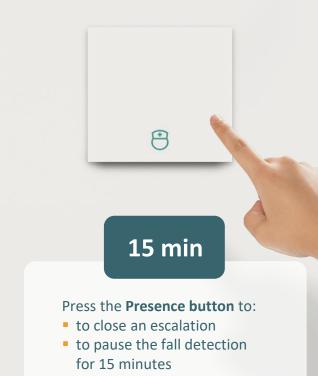
- bending down to put on residents' socks or shoes
- cleaning staff bending down to clean under the cabinets.

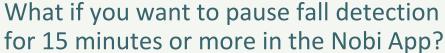
How to pause Nobi's fall detection for 15 minutes?

Push the presence button

Pause in Nobi App (only in case of an escalation)

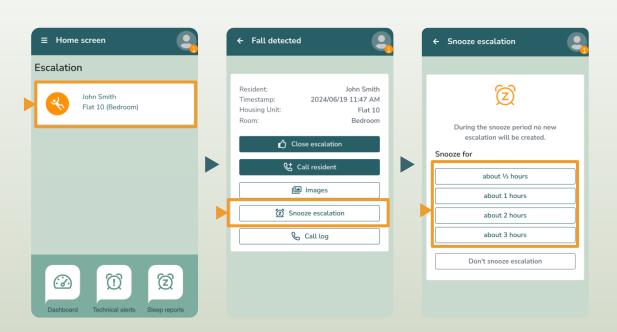
Meet Nobi's Snooze Feature





To not receive fall alerts for a specific length of time

Snoozing a fall in the application:





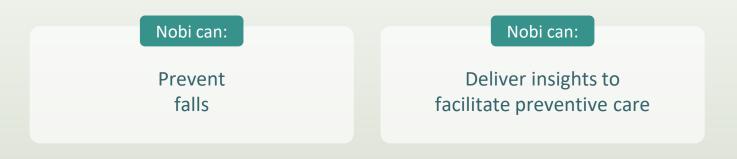


2. Fall Prevention



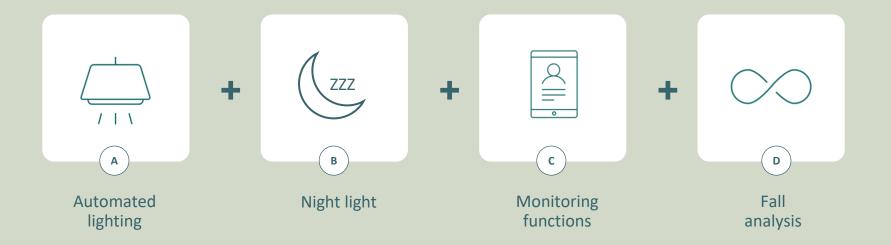
2. Fall Prevention

"To prevent is more effective than to cure."



Result: less day-to-day challenges for you

2. Fall Prevention



2. Fall Prevention

A. Automated lighting

Always experience the right lighting

Entering a room: light automatically goes on Leaving a room: light automatically goes out after xx seconds

> Increase safety

> Reduce disorientation

> Configurable per Nobi light



2. Fall Prevention

B. Night light (used for some residents)

Always experience the right lighting day and night







> Reduce disorientation

> less intrusive check-ins

> Configurable per resident



Always experience the right lighting day and night

Features of automatic lighting and night light can be combined.

Night light overrules automatic lighting, meaning the light will stay out, even if a caregiver enters the room during the night.

less intrusive check-ins



2. Fall Prevention

C. Monitoring events

When your resident is in a position with a high fall risk, Nobi can notify you.

These monitoring events are chosen for certain residents:



Resident is out of bed



Resident is out of bed



Resident sits on the edge of the bed (after lying in bed)



No person detected



2. Fall Prevention

D. Fall analysis

Only in case of a fall:

Nobi will show real images of the fall, the moments leading up to the fall, and the moments after the fall.

This allows you to analyze and prevent further falls. These images will be automatically deleted after 14 days.

Residents have given consent for this and all other privacy settings.



3. Better & Smarter Care



3. Better & Smarter care

Nobi's feature of delivering insights help you to provide more individualised care and, in some cases, even to identify health issues at an early stage.



A. Dashboard - Live view



In Nobi's dashboard you can remotely check the actual situation in each room, 24/7

Only with resident's consent, you see:

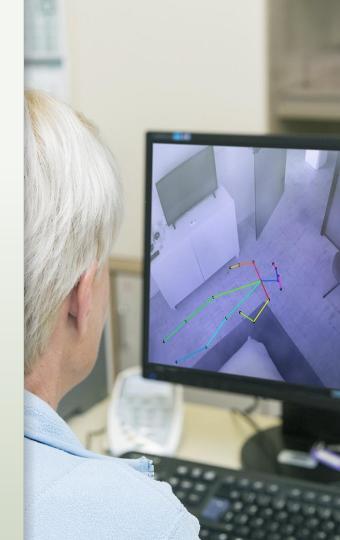
Actual behavior

Stick figure against a fictional background

> less intrusive check-ins

> more dignified life

The stick figures are completely anonymous



B. Sleep reports



Nobi provides you with a report that offers insights into in-bed and out-of-bed behavior



When you notice a resident gets up 3, 4 times in the night and already is in bed at 7 PM, you can evaluate this behavior with staff.



C. Fall analysis reports



This report shows you an overview of the number of fall incidents.

REAL-LIFE SCENARIO - EXAMPLE

You've observed a significant number of falls occurring around 6 PM, coinciding with residents preparing for dinner.

After numerous slipping accidents, it seems that at 6pm it is dark in that part of the hallway. Extra light needs to be provided.

Over the next six months, you can use this report to assess whether there has been a reduction in falls.

D. Monitoring events reports



Behavior monitoring reports allow you to identify patterns within your operations, make necessary adjustments, and evaluate the effectiveness of your care procedures.

These behavior monitoring functions are available:



Resident is in bed



Resident sits on the edge of the bed (after lying in bed)



Resident is out of bed



No person detected

Chapter 5

100% Privacy Protected



Privacy for Residents



&



Privacy for Care Staff

Privacy for residents



1. Nobi analyzes 'poses', not body images.

In essence

Nobi doesn't need images of your body to be extremely effective. Instead, it works with anonymized stick figures.

What are stick figures?

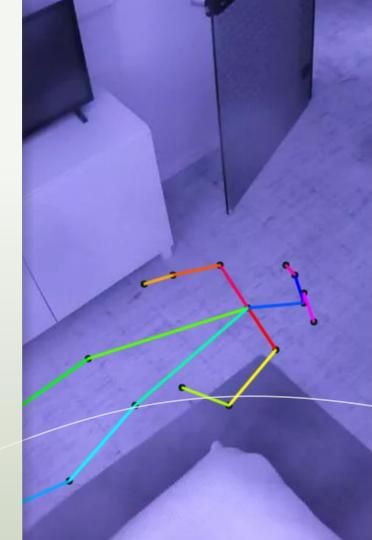
Essentially, this is a combination of lines and knots that resemble matchstick figures, specifically designed to protect your privacy.

This is how it works

- Nobi's optical sensors take images of the room every second.
- The AI then makes smart analyzes based on 'poses', also known as these anonymous 'stick figures'.

Nobi distinguishes 3 types of 'poses'

- Sitting (bed/chair/ground)
- Standing
- Lying (bed/ground)



Privacy for **residents**

2. No fall, no images to cloud

Nobi deliberately chose for a strong AI processor that is located within the light itself.

The big advantage is that interpretation of images can happen locally, within the light. No need to send images to the cloud for AI analysis.

Depending the privacy settings, and only in the event of a fall, Nobi will store images in the cloud for care professionals to better assess the required care following a fall & to prevent future falls.





Privacy for residents

3. Residents choose their level of privacy

Before Nobi's smart features were activated, residents or their representatives chose what images can be viewed by care staff to gain more insights into the type of help needed after a fall and what caused the fall.

This way, Nobi helps care workers

- provide the right help after a fall
- and prevent future falls.

Nobi comes with three privacy options:



Full image



Anonymized stick figure



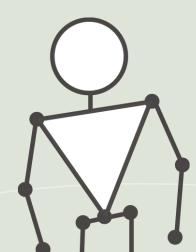
No image



Did you know?

All residents that have a Nobi light in the room were well-informed about Nobi and its privacy measures.

They signed an informed consent document and are now waiting for Nobi to start detecting falls.



Privacy for **residents**

4. Automatic deletion of fall images

Protecting of Nobi data is key:

- Images can only be viewed.
- Images will be automatically deleted 14 days after the fall.



Privacy for (care) staff

Nobi is there to support you. Not to monitor you

Nobi's smart lights are designed to assist caregivers in their day-to-day job and support them in providing the best care possible.

We know very well how hard our caregivers work to give residents the best care possible. Therefore, Nobi does not concern itself with monitoring the actions and behaviors of caregivers.



By only supporting the abstract visualisation (stick figure), the Live View does not show if the person in the room is a resident or caregiver. Nor does it track how long someone has been in the room.





Nobi Exercises

Nobi exercise: time for action!

@ Nobi-representative:

Walk the attendees of the Nobi Fall Detection Training through their customised escalation process.

Be as detailed and specific as possible.



Nobi exercise

Do you know the answer to these questions?

- How does Nobi work?
- What happens when Nobi sees a fall?
- What are the four ways to prevent a fall?
- What are the 2 functions of the presence button?







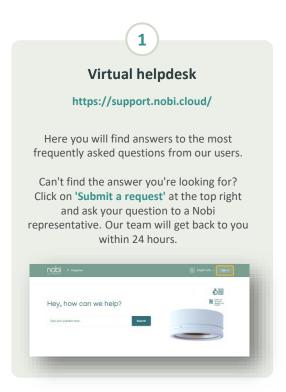
Congratulations! You are now ready to start working with Nobi's smart lights

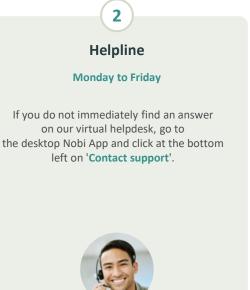
Chapter 7
Need help?



Need help?

Whether your question is big or small, the Nobi customer service team is ready to help. You can contact us through one of these channels:





? Contact support



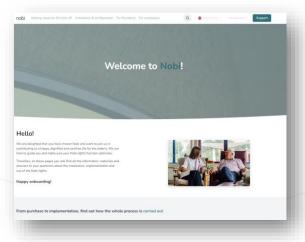
Training & onboarding

Virtual onboarding portal

To ensure the onboarding process with our customers goes as smoothly as possible, Nobi gathers all training modules, useful reference documents, and supporting tools in a central customer portal.

Want to download this presentation or previous presentations for a colleague or reread it yourself? Then surf like hell to:

https://clientportal.nobi.life



Chapter 8
What's next?



Nobi goes live

Towards the big day

AI Learning Period

While you and your colleagues are being trained to use Nobi's smart lights, Nobi's artificial intelligence is being trained too for a period of 7 to 14 days. During this period, Nobi does not yet detect falls, but it prepares behind the scenes for a smooth start.

During this learning period:

- Nobi learns what the room looks like and what objects it contains
- Nobi tests its camera, signal strength, and internet stability.
- Nobi is further trained to detect falls as accurately as possible.
 This is crucial to minimize the number of false fall alarms.



Start learning period

The learning period was automatically activated as soon as a resident was paired with a residential unit.

Training of Care Team

During the learning learning period, the care team will be carefully trained so they can work smoothly with Nobi once Nobi goes live.

Nobi goes live

After final testing, Nobi goes live and will detect & prevent falls, support you with smarter care, etc.



Next steps

Inform all staff

- Don't forget to inform your colleagues
- To support you:
 - You can use this presentation, to be downloaded here
 - Use Nobi's Cheat sheet

When will Nobi go live?

- The general project lead will inform you as soon as a date is set
- Nobi also supports you to inform your residents with information cards you can leave in the room of the residents.



What's Next?

Welcome to Nobi

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Prepare the installation

Configuration meeting

Together we go over the possibilities in configuring

Fall detection training

At client. 2h

Nobi goes live

Congratulations! Nobi's smart lights are going in use today.

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Getting to know Nobi



Prepare fall detection training

fall detection training

Ready for launch?

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Operations Manager

Online, 0.5h

Follow-up

For the first two weeks. we will keep a close eye on your lights and make adjustments as needed.

Operations Manager

Online, 2 weeks



Take care!

