

Getting to Know Nobi

Fall Detection, Prevention & Smarter Care





Our Goals Today

Outline the Process

Understand the complete implementation journey from installation to daily use

Explain Nobi Fully

Equip you with the knowledge to confidently introduce Nobi to your residents

Agenda



Introduction to Nobli



Understanding Falls



Nobli's Solution



Technology Behind Nobli



How Fall Detection Works



Fall Prevention Features



Smart Care & Insights



Privacy & Ethics



Materials & Client Support



Resident Journey



Next Steps

Introduction to Nobi

What is Nobi?

- A smart light
- Analyses the pose of a person
- Ceiling/ Pendant

Coverage: 8m diameter



What is Nobita?

Nobi's compact sister light:

- Ideal for bathrooms or small rooms
- Different housing (humidity, temperature)
- Does not support bed monitoring, live view, video footage

Coverage: 5m diameter



Technology Behind Nobi(ta)

- Captures one image per second
- Analyses locally using advanced AI
- Generates stick-figures of poses (no body images)
- Static background
- Interprets posture—not motion
- Detects even slow, gradual, or controlled falls
- 24/7 functionality, even when light is off





Understanding Falls

The Fall Problem



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 department after a fall.



Every 19 minutes

a person over the age of 65 dies as a result of a fall.

The Impact of Falls

Falls drastically affect:



Independence and mobility



Confidence and mental well-being



Quality of life and social engagement



Immediate response reduces injury severity, psychological trauma, and overall care costs.

Nobi's Solution

Our Philosophy

To stop falls from becoming life-changing events, Nobi proactively works:



Before Falls

Proactive prevention through smart lighting and monitoring



During Falls

Accurate detection and immediate alert system



After Falls

Actionable insights to prevent future incidents



What Nobi can do for you & your residents



1. Fall Detection



2. Fall Prevention



3. Better & smarter care



Fall Detection: Escalation procedure

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.



**Nobi detects a fall
and starts an
Escalation**



Nobi alerts caregivers



Help is provided



**The Escalation is
closed**

Step 1



Step 1: Nobi detects a fall

Nobi observes someone sitting/lying on the ground.

If this lasts 12 out of 60 seconds, Nobi starts an **escalation** (max 90 seconds after the incident).

Voice Confirmation

Option 1 - Voice Confirmation

Nobi(ta) will ask the resident: "did you fall?"

'yes'

Nobi will alert care staff immediately

no answer


Nobi will alert care staff immediately

a clear 'no'

(e.g. looking for dropped item) - No escalation triggered

Option 2 - No Voice

Escalation starts immediately

-  For cognitive impairments: disable voice confirmation to reduce confusion.

What is a fall according to Nobi?

The falling speed doesn't matter Nobi also registers slow falls

(unlike a smartwatch)



i **Important to know:** Nobi is **not** a motion detection device. Nobi just looks at poses.



Step 2: Nobi alerts you of the fall

Care homes can choose the channels through which Nobi should alert carers after a fall or when the panic button is pressed. In addition to notification on the Nobi Dashboard, the following options are available:

Mandatory



Phone

Nobi calls given numbers in a cascade



Nurse call system

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

Optional



App

Notifications are sent simultaneously to all contacts



E-mail

Emails are sent simultaneously to all contacts

Via phone call



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
You can now speak with the resident through the light



Step 3

You make your way to the room.

Numbers to Call

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



Contact Number 1

Resident X fell in Room Y, press '1' to confirm



Contact Number 2


Resident X fell in Room Y, press '1' to confirm



Contact Number 3

Resident X fell in Room Y, press '1' to confirm



 More than one person in a single person room?
Nobi automatically pauses calls





Via nurse call system

Nobi can be integrated with your existing Nurse Call System.

Here you then configure how Nobi should alert staff.

- i Nobi seamlessly adapts to your existing nurse call system, offering customised integration options tailored to your facility's needs.

Via in-app notifications

In-app notifications are a useful way to be notified of falls.

Make sure you have devices on hand to download the Nobi app on.





Via email

Informative emails about when falls started/ended are useful but additional.

It's best to rely on phone/nurse call system to be alerted in real time.

Step 3

Help is Provided



With **your** support, Nobi can truly make a difference.
Your response is crucial to our success.

Step 4

The escalation is closed



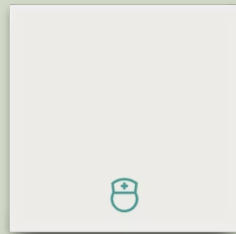
Closing the escalation lets Nobli know the emergency is over.

The escalation can be closed in multiple ways:

Step 4

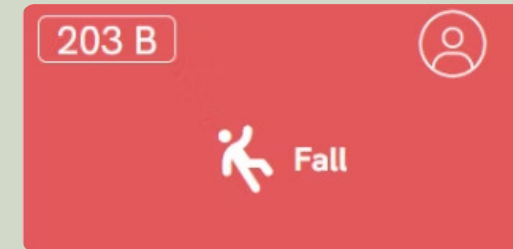
The escalation is closed

Push the Presence Button



1. Press the presence button when you enter the room, then assist the resident.
2. The escalation is now closed.
3. Nobi will prevent further escalations for 15 minutes (snooze).
4. After 15 minutes, Nobi can create a new escalation.

Close in the app



1. First, help the resident. Then close the fall in the app.
2. Choose the Snooze time (default = 15 minutes).

 **Auto close:** Nobi can also automatically close an escalation. For this to happen, you need to first **confirm** the escalation.

[Find out more here](#)

Step 4

The escalation is closed

By the Nurse Call Integration



Consult the options of the Integrations with the Nobi Support Team

[Contact Nobi Support](#)



Snoozing

Purpose: Prevent unnecessary alerts



Proactive Snooze

Press the Presence Button

- Fall detection disabled for 15 minutes
- Useful during cleaning, kneeling,...



Auto-Snooze

Activated when >1 person is in room

- Only works in single person rooms
- Prevents alerts when carers present

What to do in case of a long lie?

If you cannot help the resident up in 15 minutes

Close the escalation in the **application** - Choose a **custom snooze** time



30 minutes



1 hour



2 hours



3 hours

Real-World Impact

Key outcomes from active sites:

< 4

Minutes

Average intervention time

0%

Long-lie Events

No residents left on floor for extended periods

Reduced fall severity

Increased resident confidence

Greater family peace of mind



Fall Prevention



Automated Lighting



Night Light



Monitoring Events



Fall Analysis



Automated Lighting:

How automated lighting prevents falls

Activating the automated light ensures that the light turns on when there's a person, goes back out when the person leaves the room.

- **Reduced Disorientation**
Gentle illumination helps residents navigate safely.
- **Based on pose detection**
Not based on motion - stays on as long as the person is still in the room.





Night Light

Lying Down

No light disturbance during rest periods



Sitting on the edge of the bed

Gentle ambient light activates automatically

Out of Bed

Light shines at normal capacity



Light will not turn on if staff walks in. Overrule with switch.



Consider Carefully: This feature may not be suitable for very restless sleepers with arms and legs out of bed.



Monitoring events

1. Nobi can distinguish between these risky events:



Resident on the edge of the bed



Resident in bathroom



Resident out of bed



No Resident Detected

These can be heavily customised depending on the resident's needs

2. Afterwards, take these actions:



Build a report

Report of what happened when



Alert you as it happens

Mobile notification / Dashboard

Action Required: Please verify that notifications are enabled on all staff mobile devices to receive these important alerts.





Fall Analysis:

Every fall incident provides valuable learning opportunities. Images are stored for 14 days.

Actual Image



Google Docs



Real image.mp4

Abstract Image



Google Docs



Abstract Edited - Gemaakt met Clipchamp.mp4

Smart Care & Insights



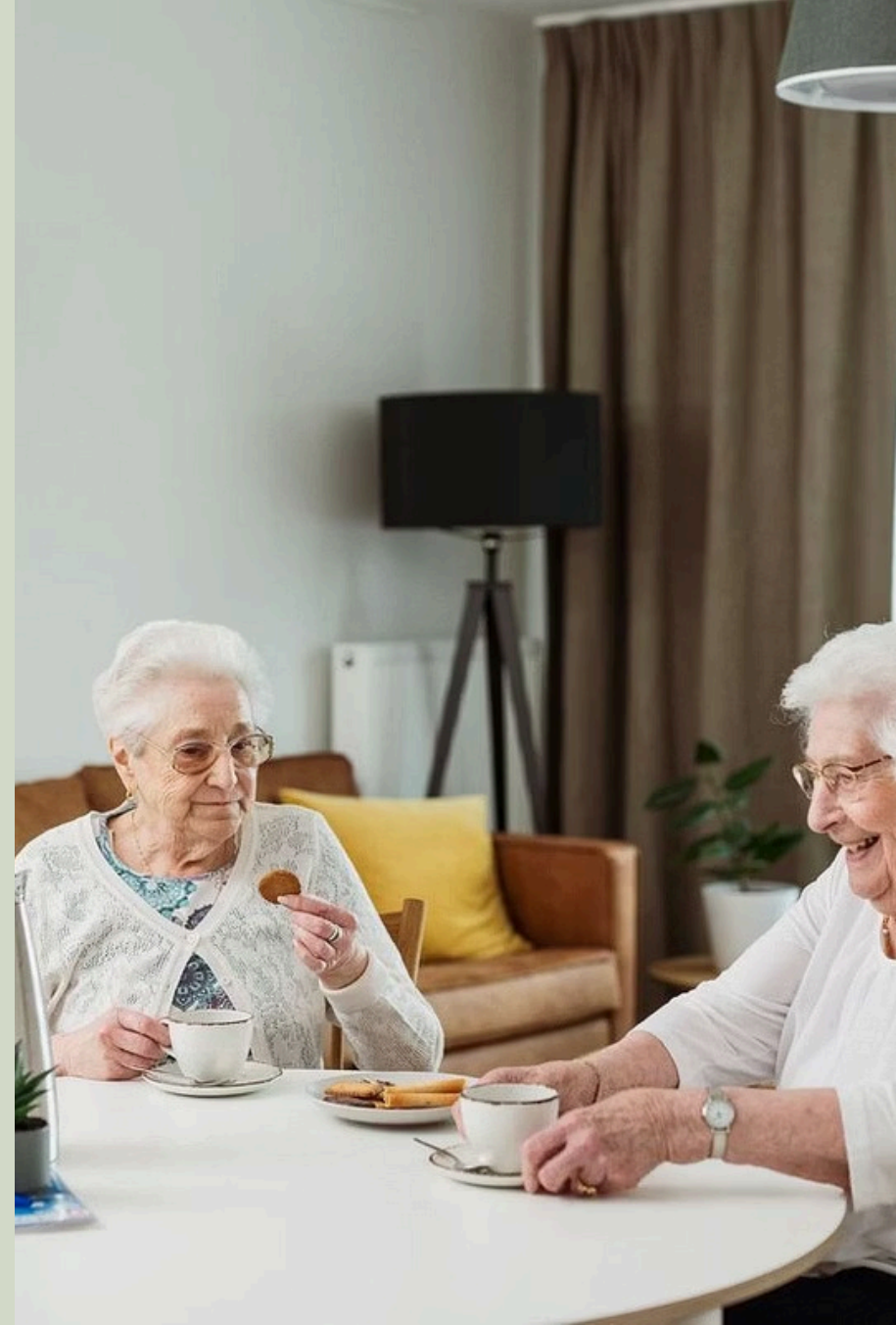
Live View



Sleep Reports



Reporting



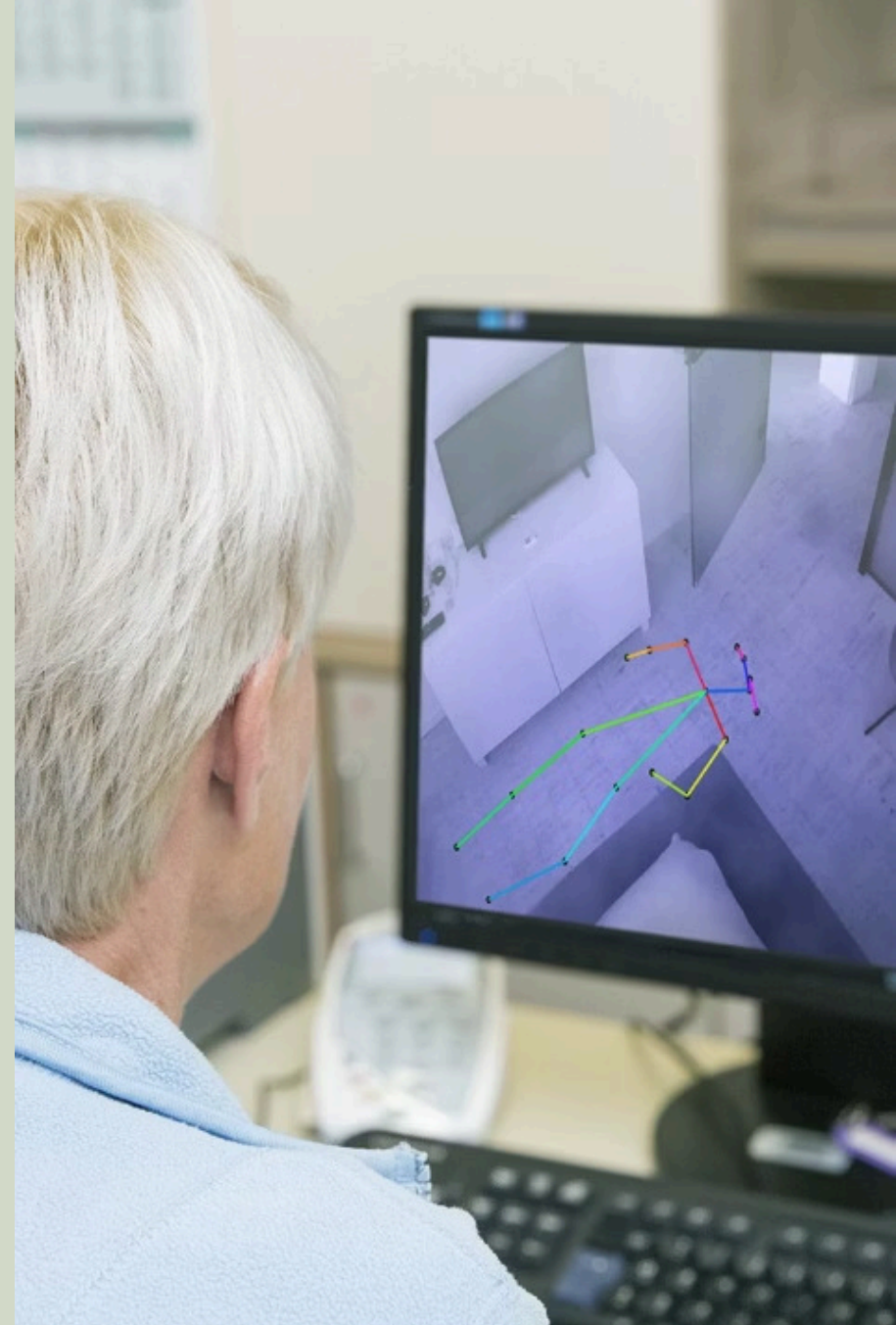


Live View

- Real-time monitoring of resident pose
- Uses anonymised stick figures
- Only available with Nobi (not Nobita)

Reduces need for intrusive check-ins

Preserves dignity while ensuring safety





Sleep Reports

Understanding Sleep Patterns

Sleep reports track the residents' in- and out of bed time. This is tracked automatically from 7 p.m. until 11 a.m.



Bedtime Patterns

Track when residents typically settle for the night and identify consistency in sleep schedules.



Wake Frequency

Monitor how often residents wake during the night and duration of wakefulness periods.



Time Out of Bed

Measure duration spent outside bed during night-time hours and movement patterns.



Analysing sleep reports can help identify residents who need gentle lighting assistance for night-time disorientation or frequent waking.



Reporting

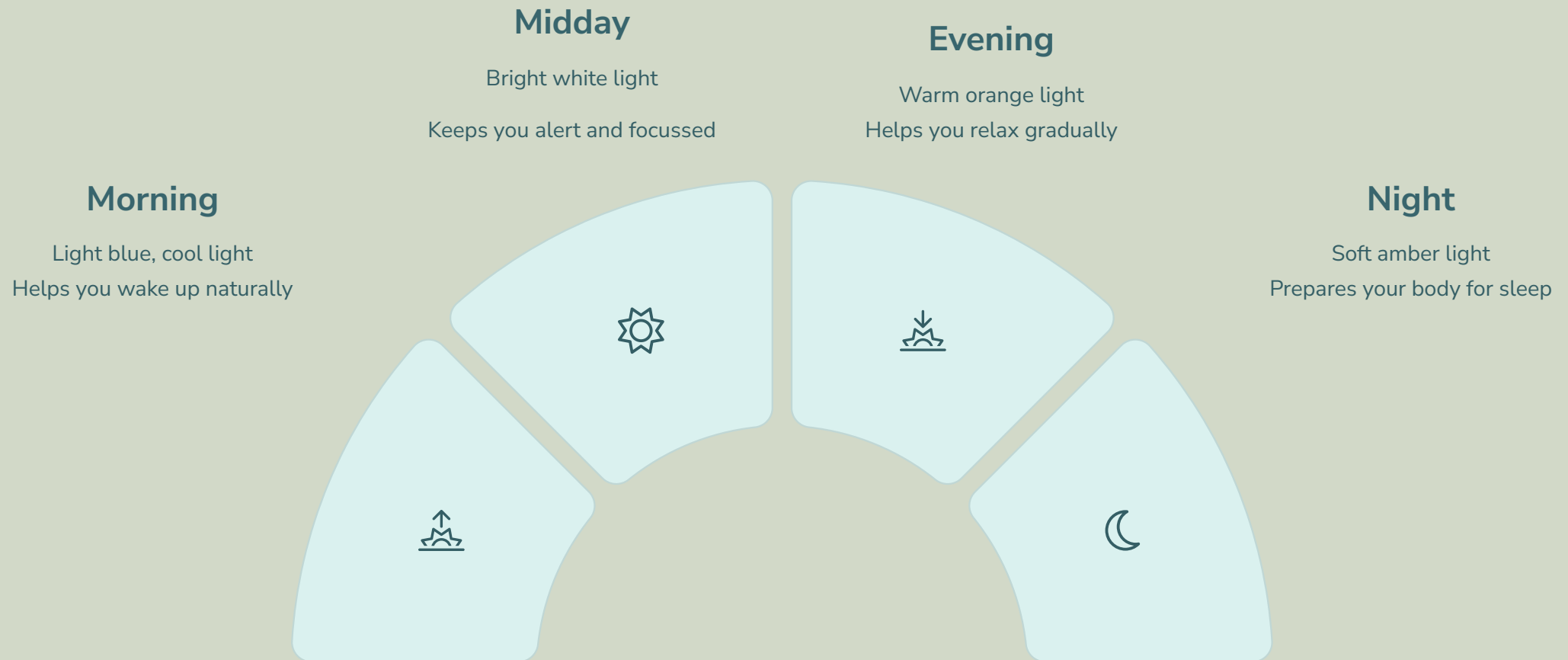
- Reports retain data to analyse
 - Find patterns
 - Find outliers

Escalations

Monitoring Events



Nobi Smart Lighting: Supporting the Circadian Rhythm

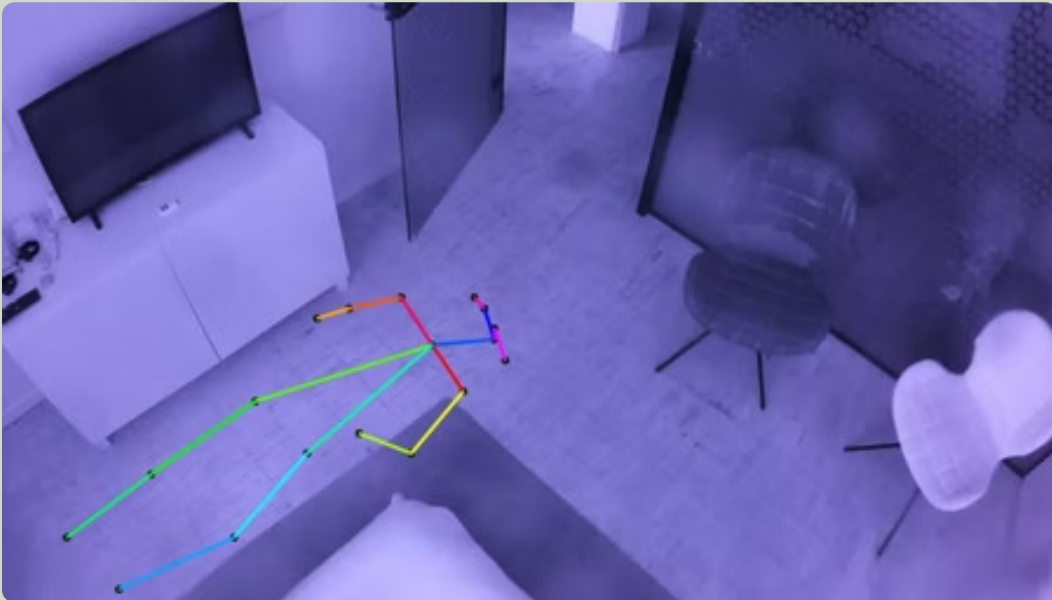


Nobi Smart Lamps mimick natural daylight patterns by adjusting **intensity** and **colour temperature** throughout the day, supporting the body's internal 24-hour clock.

Clinical impact: A 2022 study found that Circadian lighting can help **reduce sundowning**

Privacy & Ethics

Privacy by Design (Residents and Staff members)



Pose, Not Identity

Nobi tracks posture, not who people are

Local Processing

AI runs inside the light, not in the cloud

Minimal Storage

No images stored unless a fall occurs

Privacy Settings

The resident **needs** to have given consent for any of the smart features to work.

For an escalation, residents choose what carers can see:



No Image

Only text alerts with timestamps

Maximum privacy protection



Stick Figure

Abstract representation

Balance of privacy and visual context



Full Image

Complete visual context

Auto-deleted after 14 days

For whom is Nobli suitable



Fall Risk Residents

Those with history or high risk of falls



Post-Op Recovery

Residents recovering from surgery



Night-time Walkers

Residents who frequently get up at night



Dementia Residents

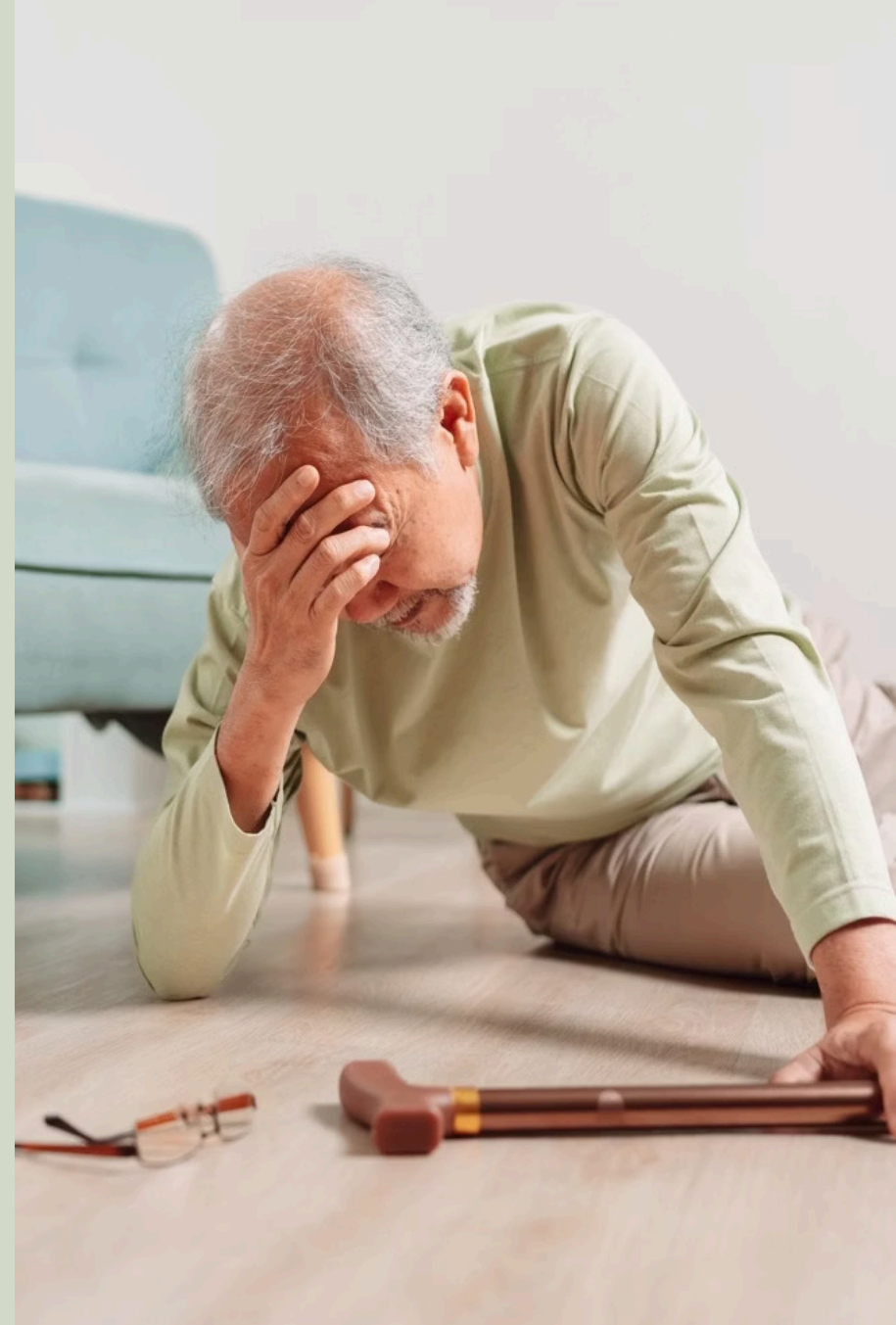
Residents with cognitive impairments

For whom is Nobli Not Suitable

Not recommended for:

- Residents who sleep on the floor
- Residents who crawl on the floor throughout the night

These behaviours make fall detection unreliable and would cause frequent false alerts.



Next Step

Information Phase

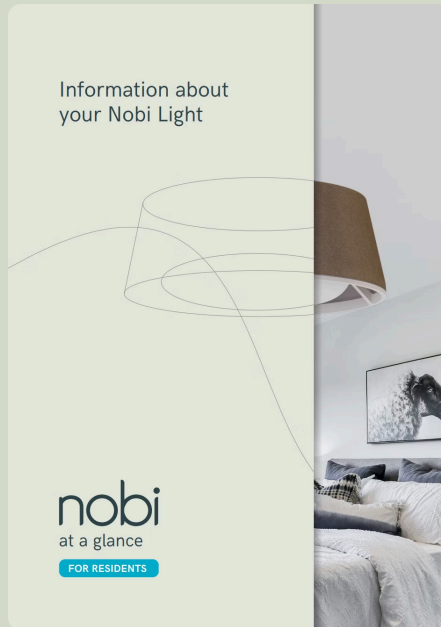
We provide materials for residents and families

Materials Found on our Client Portal

Materials - Client Portal

Resident Materials

- Brochures and flyers
- Informed Consent template



Staff Resources

- Instruction manuals
- Training slide decks



[Go to the Client Portal](#)

What's Next?

From initial contact to full system operation, here's the journey to integrate Nobi into your care home.





Thank You!

Together, we're creating a safer environment with dignified care.

Questions? Contact your Nobi representative.