



ITAC Conference 2026 Nobi: Falls Prevention Technology Implementation

Presented by: Danny Turner

Preventing Falls.
Preserving Dignity.
Reducing Hospitalisation.

Chris and Pam
in an award-winning
Harbison Dementia Cottage
room.



This is a National Crisis for Older Australian's

Falls were the leading cause of injury hospitalisations in 2023–24 and the leading cause of injury related deaths in 2022–23.

Highest rate of
falls average age

85+

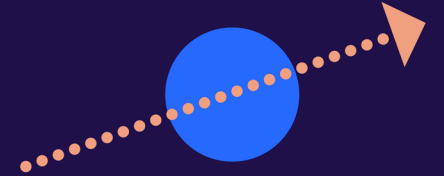
43%

Injury admissions



130,000

HOSPITALISATIONS
IN 2024



200,000

PREDICTED BY 2040

Slipping
Tripping
Stumbling



Caused most hospitalisations
in 2023–2024.

6000

DEATHS IN 2024

8000

PREDICTED BY 2040

1.2m

Hospital bed days

\$3–5b

Annual cost
due to falls

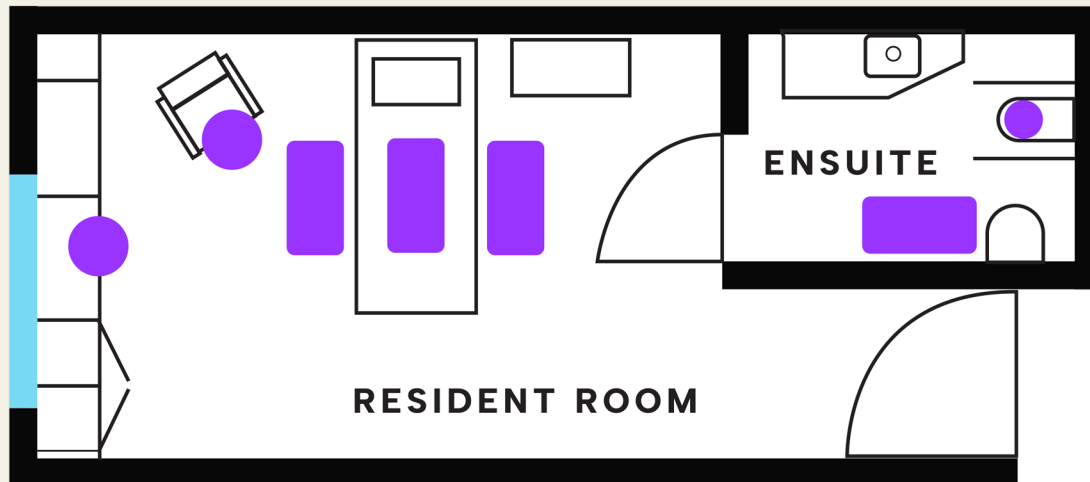


Nobi in action

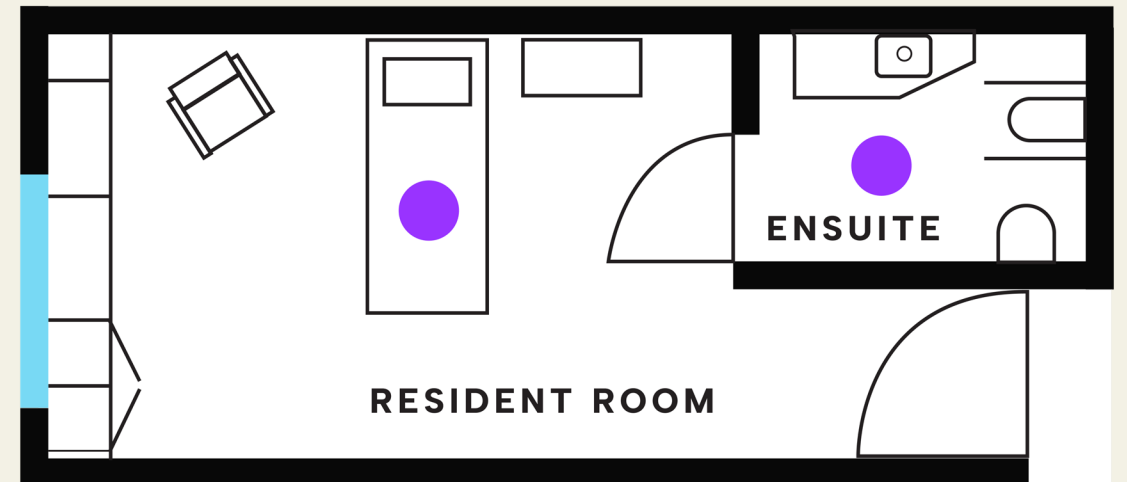


Before and After Nobi

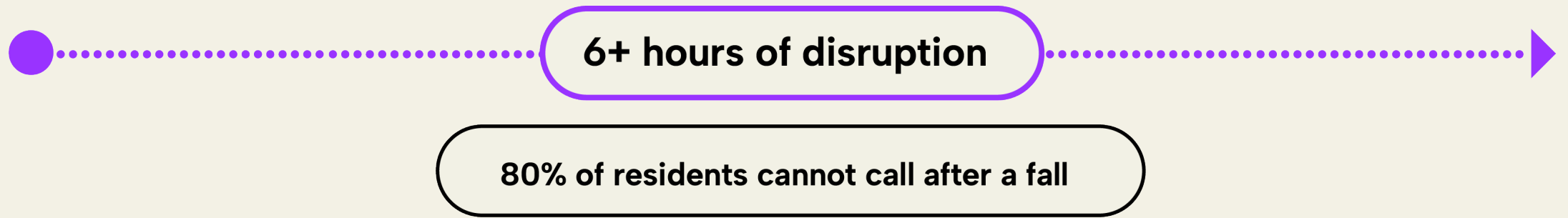
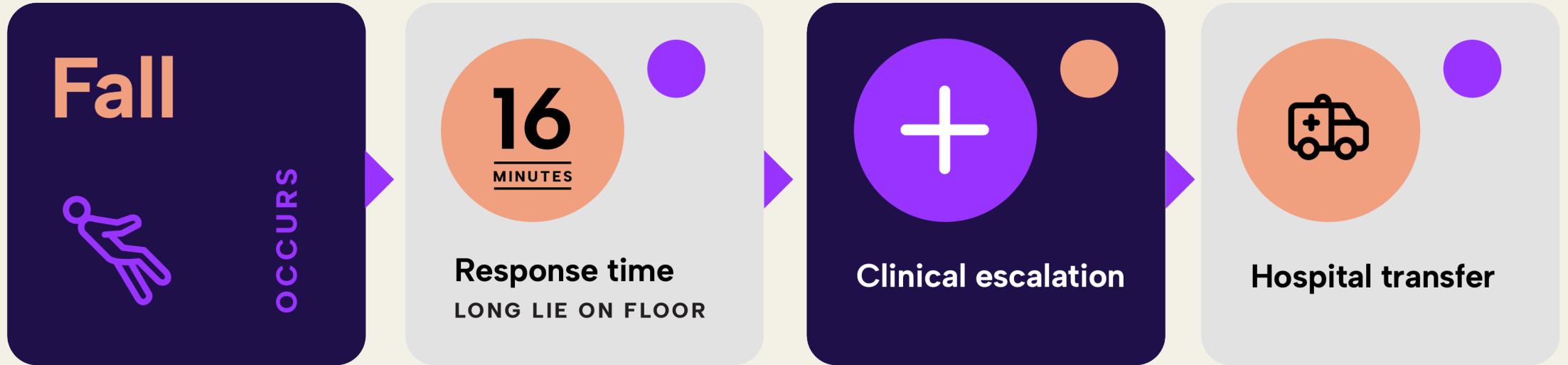
Before Nobi



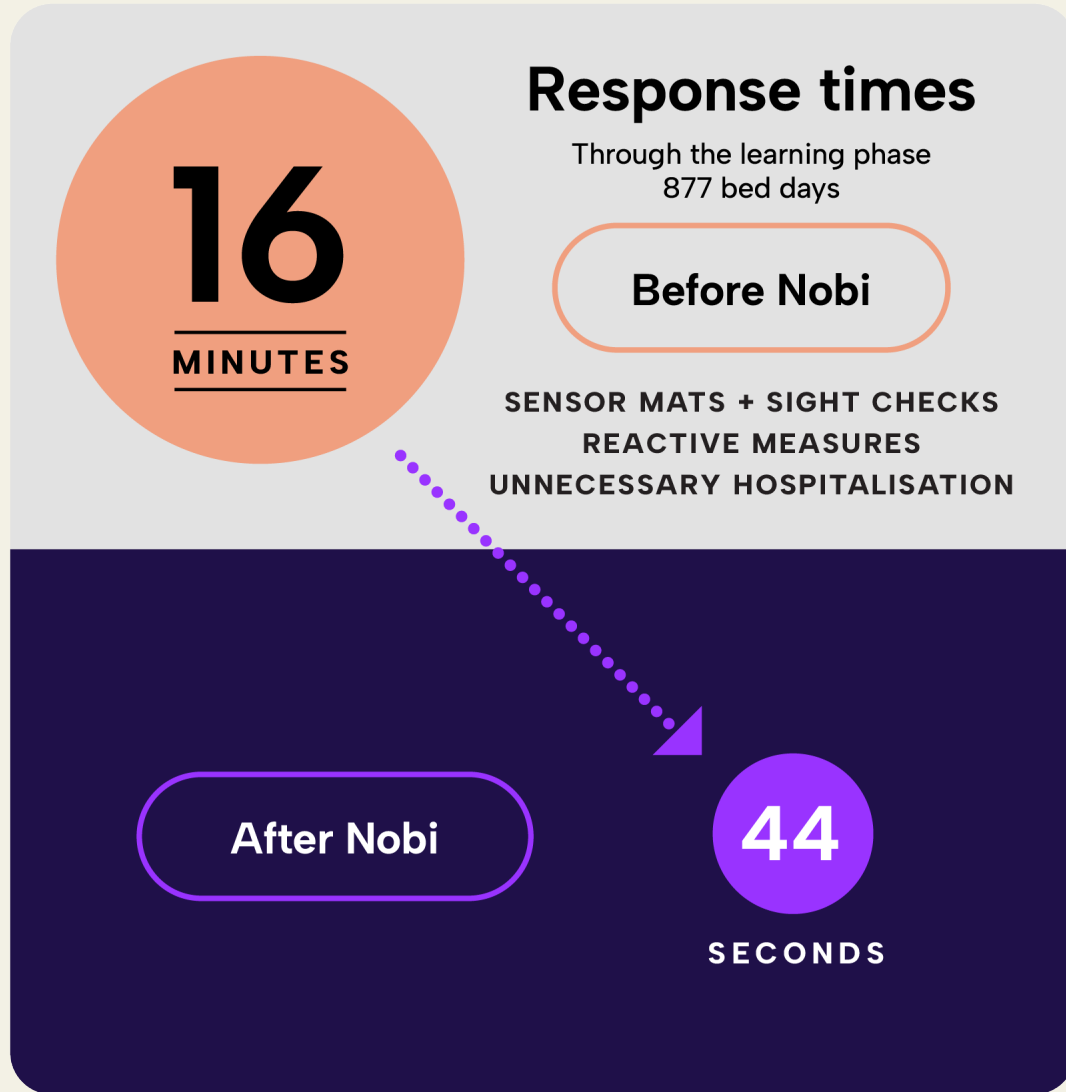
With Nobi



Why Response Times Matter



The Data Says it All



Fall Reduction and Prevention

80%

Of falls occur
at night

84%

Up to 84% of falls
can be prevented

6,800

Nobi alerts
recorded at Harbison

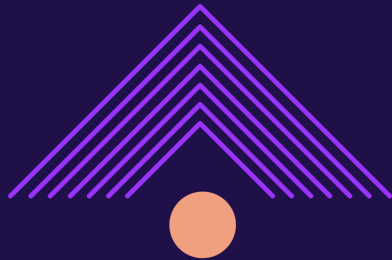
Preventing
a potential fall

57

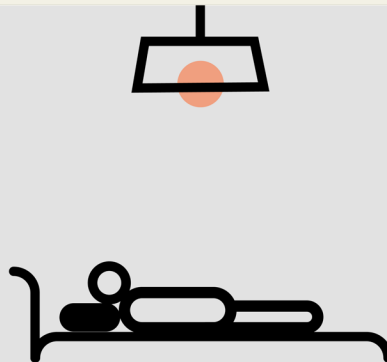
Falls recorded
before Nobi

8

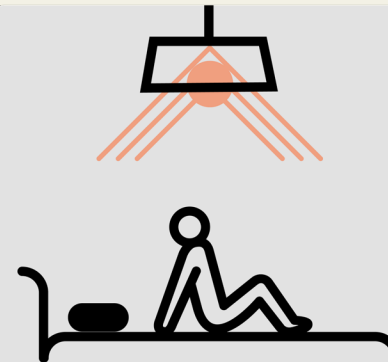
Falls recorded
after Nobi



Nobi night lighting
helps prevent falls



During sleep
NO LIGHTING



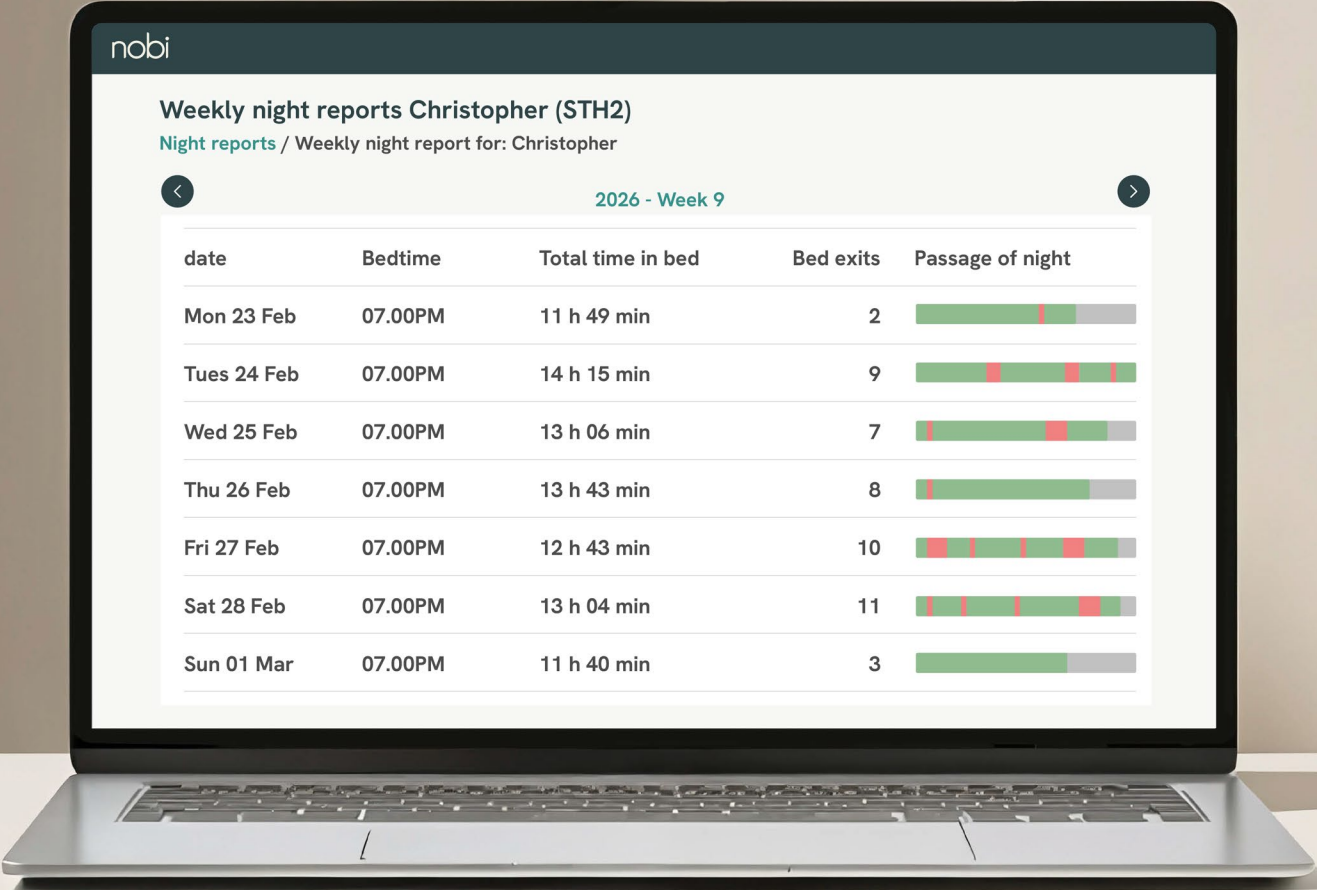
Sitting up
SOFT LIGHT



Out of bed
BRIGHT LIGHT



Why Sleep Matters



Cost and System Impact – Per Room



Cost and System Impact



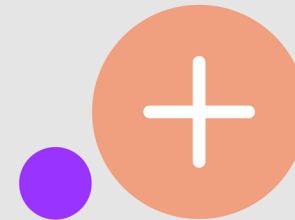
Over the last 12 months, Harbison recorded 1066 falls, on average **3 falls per day** for **240 residents**.



Avoided hospital transfers



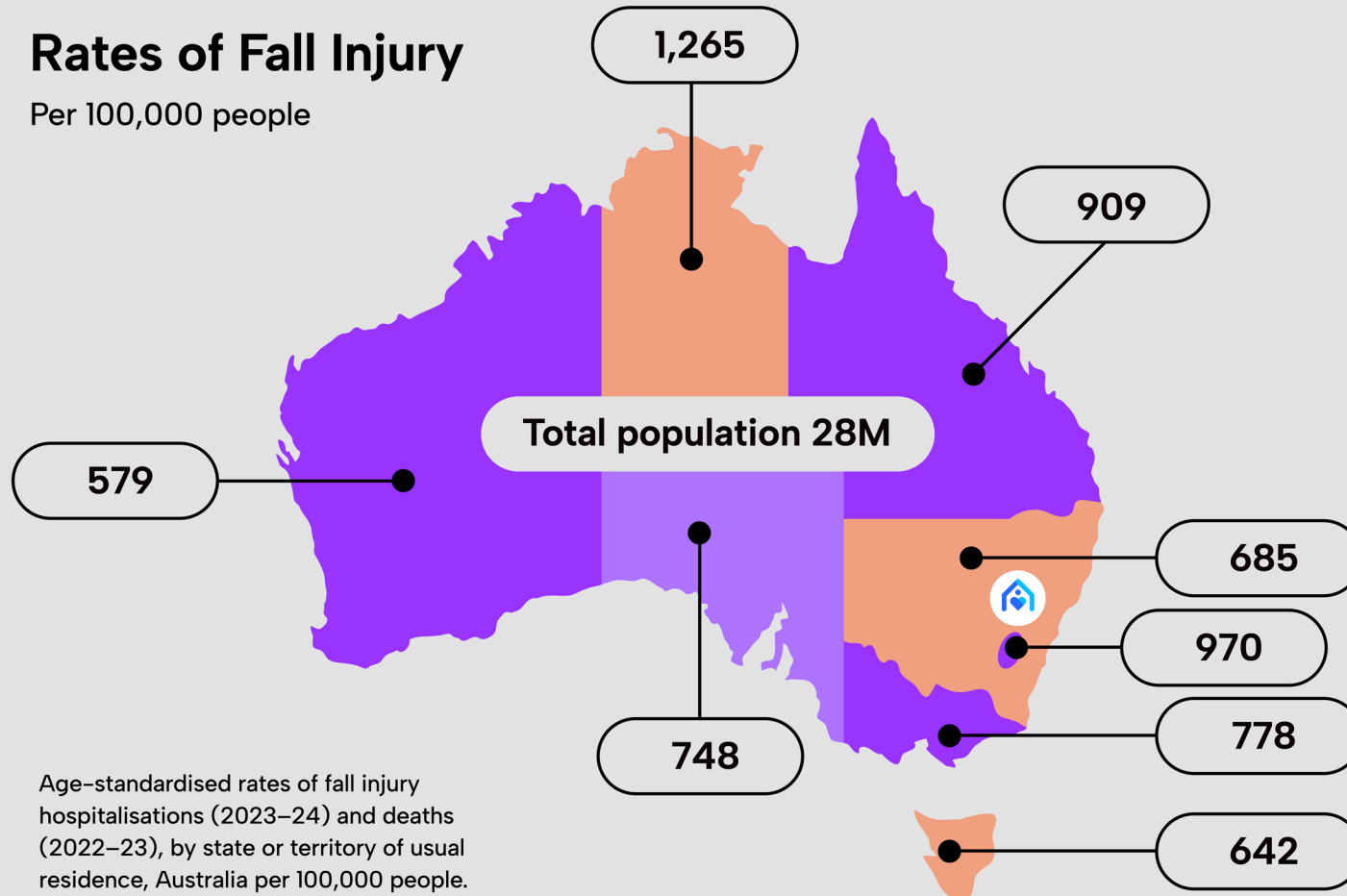
Reduced ED pressure



Cost and System Impact

Rates of Fall Injury

Per 100,000 people



\$3–5b

Annual cost
due to falls



Total Fall Injuries

Estimated Hospitalisations

NSW Pop 8.5M – 58,900
VIC Pop 7M – 55,000
QLD Pop 5.6M – 51,600
WA Pop 3M – 17,600
SA Pop 1.9M – 14,200
TAS Pop 0.57M – 3,700
ACT Pop 0.48M – 4,700
NT Pop 0.26M – 3,300



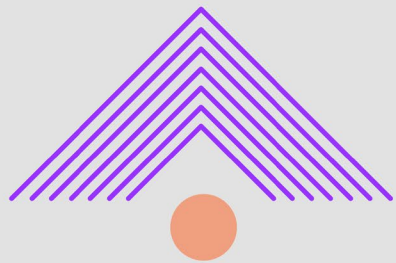
100% privacy: you are in control

Every Fall with Nobi is Clinically Reviewable.

- Nobi uses optical care sensors and artificial intelligence to detect falls.
- Analyses all images locally within the light and only forwards images in the event of a fall.
- In the event of a fall, provides insights into the cause, helping to prevent future falls.

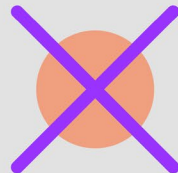
PRIVACY + COMFORT

Individuals can choose the level of image sharing that suits their preferences.



3 levels of privacy

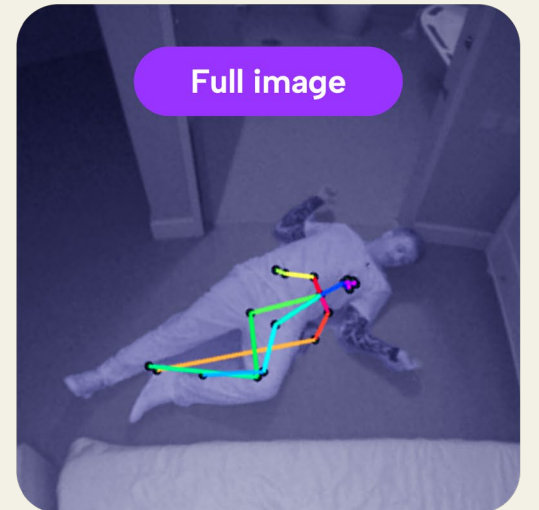
No image



Anonymised stick figure



Full image



Safety Without Surveillance.

Our goal is to have 100 rooms fitted with Nobi by 2028, improving resident outcomes and sharing our experience with homes across the sector.

No wearables

No sensors

No intrusive cameras

Resident-controlled privacy

Data auto deletes



Culture Shift

From checking constantly
to knowing when it matters.

Jenny – Dementia Carer at Harbison:

"I love the live view feature because I can make sure the residents are safe without disturbing their sleep. I show all my colleagues how to use it."

Bronwyn – Dementia Services Manager at Harbison:

"Being able to review the falls has made a big difference in understanding any clinical or mobility changes in our residents."



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Sector Leadership

Development of a National Action Plan – modelled on the 2024 Dementia Action Plan, a falls action plan would set measurable reduction targets and coordinate the delivery of evidence-based interventions across states and territories.

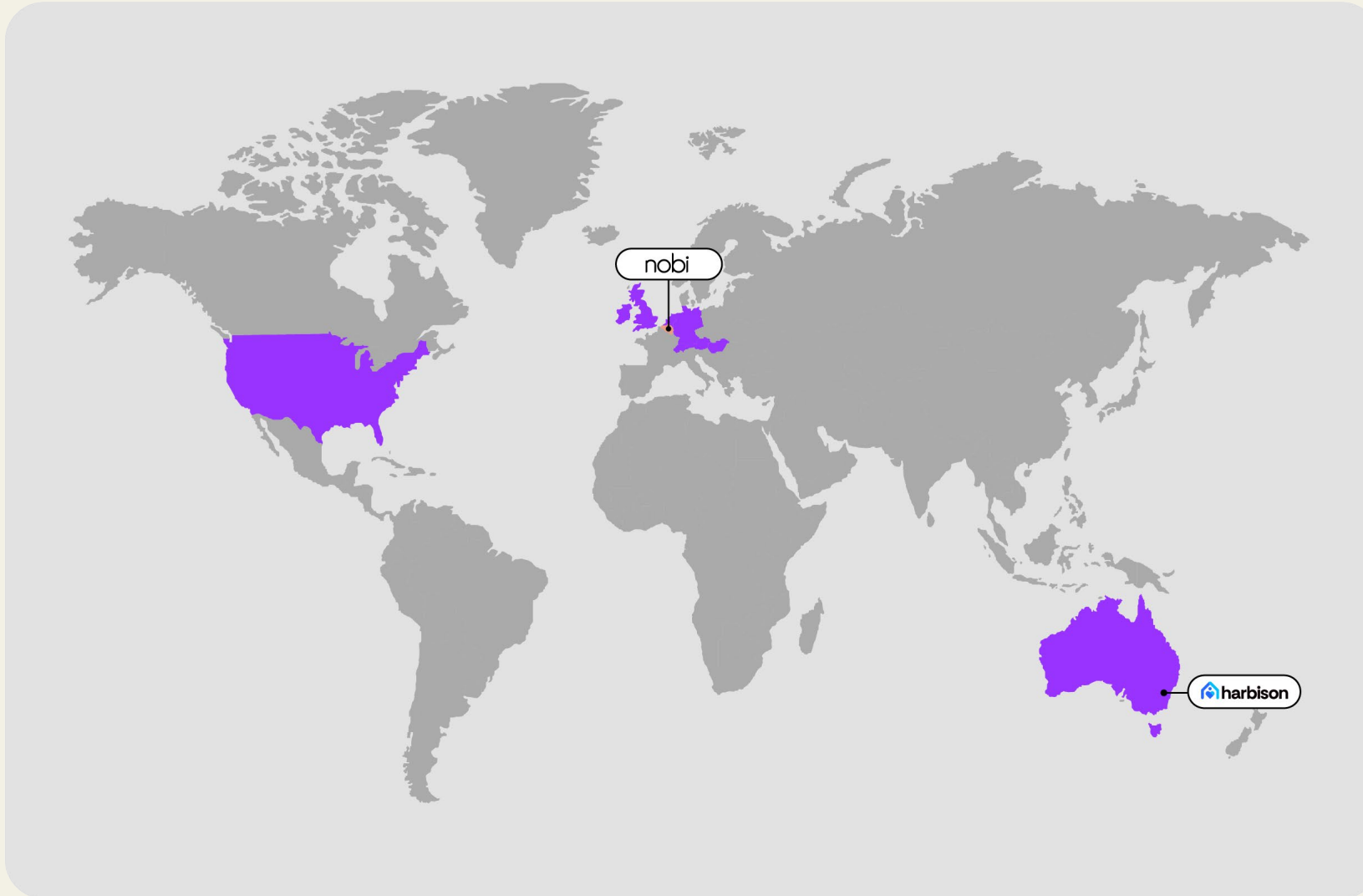
NOBI is not a just product. It is a shift in aged care philosophy and the future of care.

**First in Australia.
Proven in Practice.
Scalable Globally.**



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Nobi around the globe



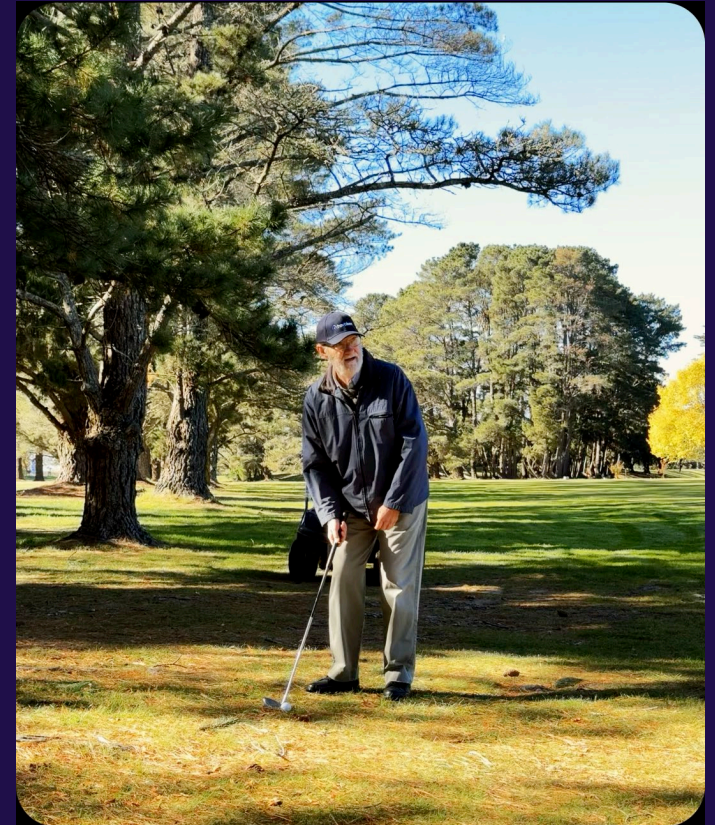
Countries using Nobi

Belgium (Nobi HQ)

Netherlands
Switzerland
Germany
England
Ireland
Hungary
Austria
USA
Australia
Luxembourg
Singapore



On the green



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Case study: When a "fall" was actually a **fitness goal**.



The Case Studies

01

Chris

When a “Fall” Was Actually a Fitness Goal.

Real-time insight helped staff accurately interpret resident activity, avoiding unnecessary intervention while supporting independence, individuality, and resident wellbeing.

02

Margaret

Preventing the Fall Before it Happens

Nobi has enabled earlier staff intervention for a high-risk resident, reducing falls, improving sleep and dignity, and allowing care teams to focus more on meaningful resident support.

03

Michael

Calm & Dignity in a Memory Care Unit

Proactive monitoring and early alerts improved night-time safety for a resident at risk of falls, reducing sleep disruption and distress while supporting more timely, dignified care.

References

- Best Practice Guidelines for Australian Residential Aged Care Services
- National Dementia Action Plan 2024–2034
- Falls kill more than 6000 Australians each year and cost the health system \$3 billion annually. Experts say it's time for a national strategy. Published on the 21 October 2025 by UNSW Sydney/USYD.
- Research paper - Healthcare spending and factors associated with fall injury in Australia residential aged care: a cohort analysis
- Fall Prevention in NSW White Paper 2023
- Falls Prevention Alliance Australia Pre-Budget Submission January 30, 2026
- Australian Government - Australian Institute of Health and Welfare
- World Health Organization - Falls are the second leading cause of unintentional injury deaths worldwide.
- World guidelines for falls prevention and management for older adults: a global initiative.



Thank you.

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SCAN

**Contact me to find
out more about Nobi.**

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