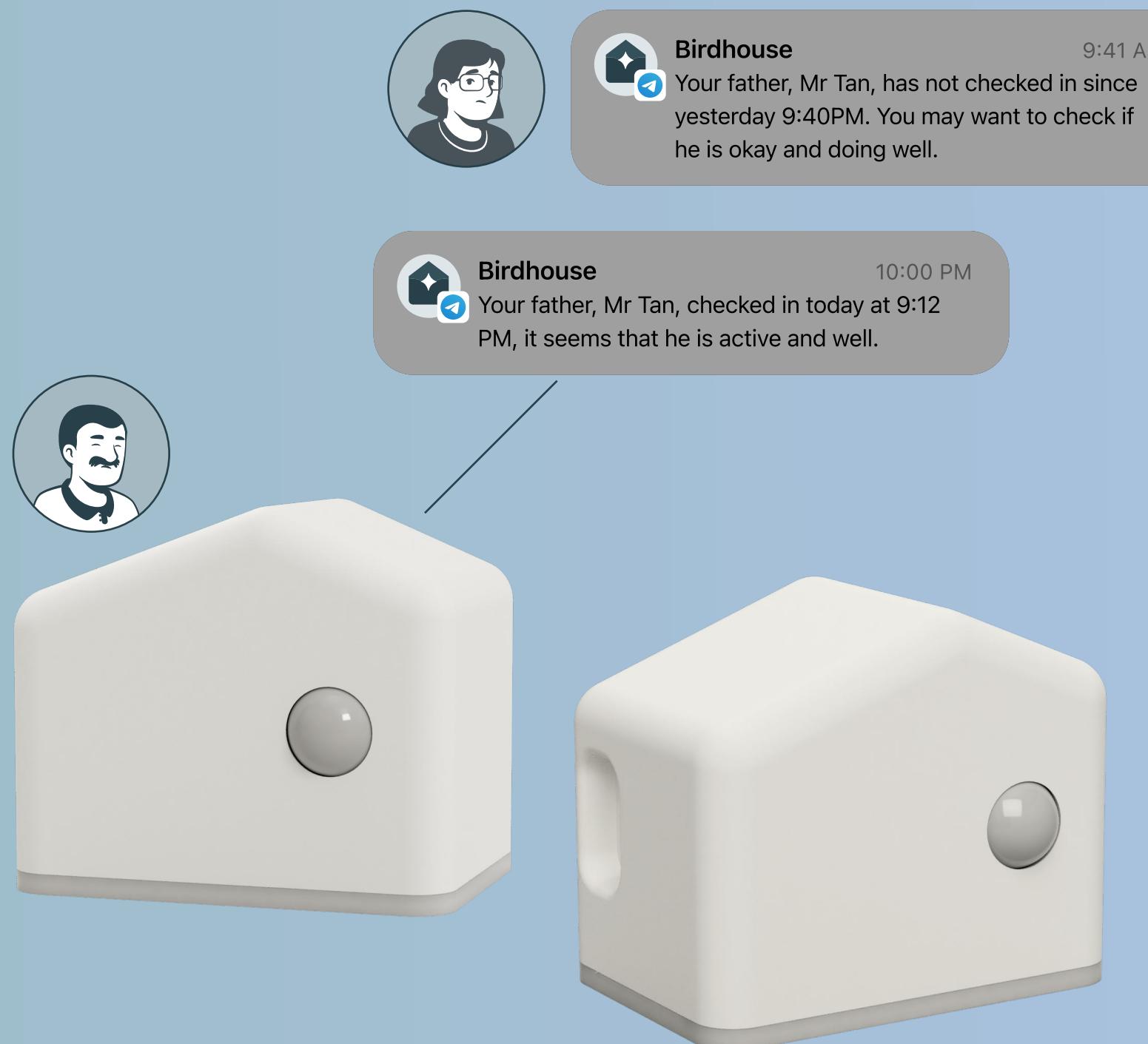




A cost-effective, scalable, AI-powered IoT system for continuous monitoring of seniors' activity levels at home.



Birdhouse

Inactive Seniors > Tan Kim Chew

Mr. Tan Kim Chew

Age 67 Contact 9123 4567

Activity Updates

Last Check In Time 26 hours ago	Risk Profile Low
07 Oct 2024, 03:00 PM	

Check-in Frequency

Smart Notes

Mr. Tan is generally active. His movement patterns for the past week show a typical daily routine with minor fluctuations.

9 Sep - 7 Oct, 2024

Birdhouse Daily Report

Birdhouse sensor last update: 08 Oct 2024, 11:00 AM

Birdhouse has detected inactivity from the following seniors. Check in with them at your earliest convenience to ensure their safety and well-being.

NAME	CONTACT	LAST CHECK IN TIME
Mr Tan Kim Chew	-	26 hours ago
Mr Low Eng Huat	9123 4567	25 hours ago
Mr Afiq Mohamed	9123 4567	25 hours ago
Mdm Ong Si Hua	9123 4567	24 hours ago

For more details, you can access their full information on the Birdhouse dashboard.

[Go to Birdhouse Dashboard](#)

Disclaimer:
This email and any information contained within it are intended solely for the designated recipient(s) and may contain confidential or sensitive information. Birdhouse's alerts are intended to assist with monitoring seniors' well-being, but they are not a substitute for direct supervision or medical care.

Besides the sorrow of dying alone lies the tragedy of departing without dignity. “I don’t want to cause a stink and make people fed up,” Heng said. “I’d be offending people even after death.”



“I don’t want people to criticise me after I die,” said Heng Aik Min.

Source: CNA

[Watch Documentary >](#)

With the increasing no. of seniors who are living alone, the no. of seniors who are dying alone would also **increasingly become more salient**.

79,000
Seniors living
alone in 2022

83,000
Seniors living
alone by 2030

37 Cases of lonely deaths reported
in media in 2023

*Why are S'pore's elderly still dying
alone, undiscovered for weeks?*

Undetected deaths will become more salient as S'pore's population ages and household sizes shrink. Family members and the community must look after vulnerable seniors in their midst, with technology as a useful aid.

SINGAPORE
**I'm afraid of dying alone at home, says woman
seen loitering at Ang Mo Kio void deck**



Living Long But Dying Alone In Singapore

By CodeBlue | 19 July 2024

Singapore's longevity success hides a dark side — the lonely deaths of its seniors — exposing a need to address social isolation in its ageing population.



Source: SingStat

Source: The Straights Times, Asia One, Duke-NUS Medical School



With industry experts - AIC, SGAssist, gerontologists

Research Key Takeaways

1

On-ground staff will experience **increasing pressure** due to **evolving roles** & responsibilities of Active Ageing Centres (AACs), and **lack of manpower**.

2

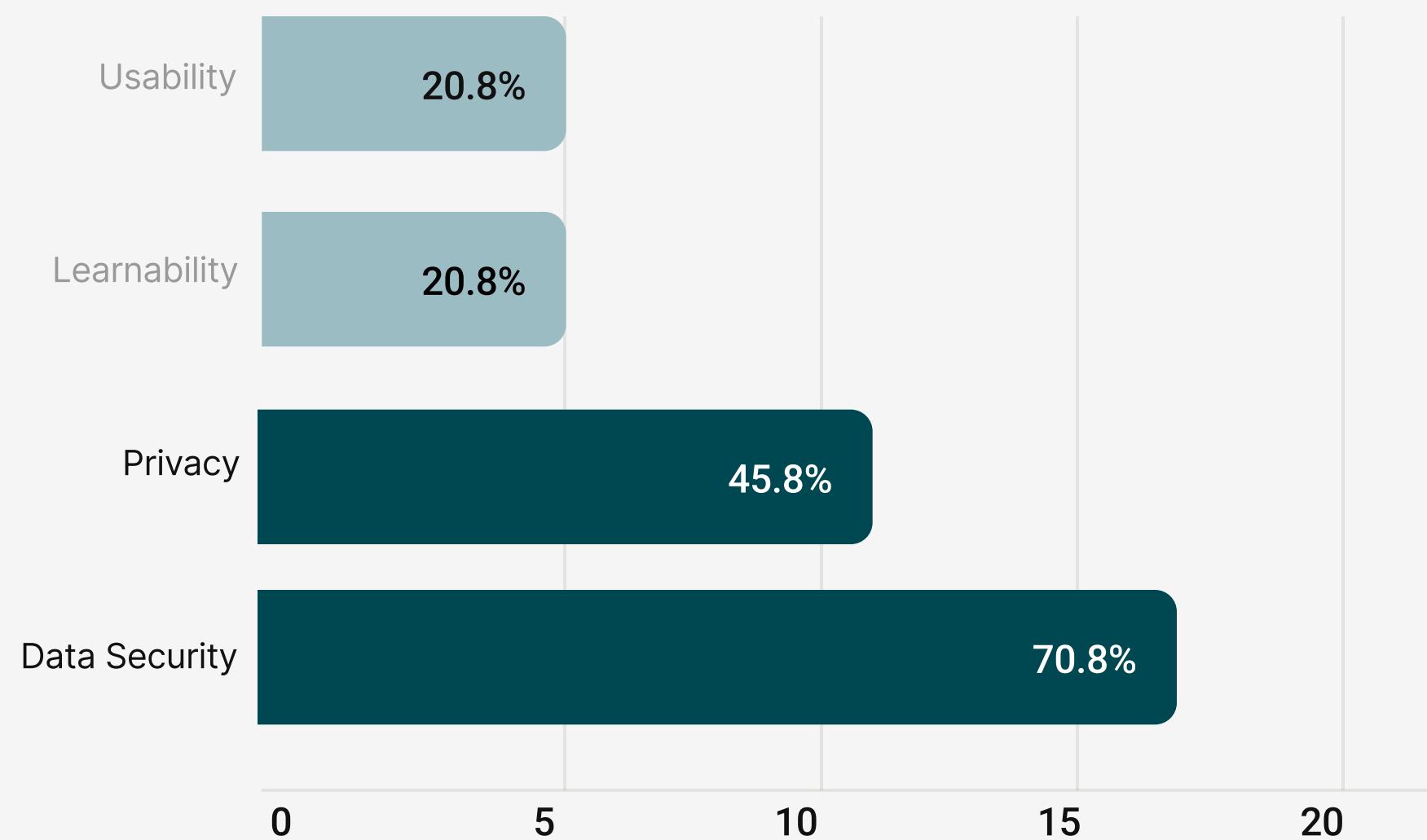
Existing solutions for monitoring seniors at home are often **expensive, difficult to scale, does not integrate well** with AAC and **require active interaction from seniors**.

3

Privacy, security, and cost are essential factors of considerations in the decision to adopt IoT-based care solutions for seniors.



Top concerns about monitoring technology



With users - seniors, caregivers, children

**How might we deliver preventative,
timely care for isolated seniors,
without compromising their privacy or
overloading on-ground staff?**

Imagine that you are 82
years old. You live alone.

Goal

Build an IoT solution for continuous monitoring of seniors' activity at home, that translates data detected into timely insights for caregivers and Active Ageing Centres (AACs) to improve care quality effectively. Ensuring it is...

1

Senior-friendly

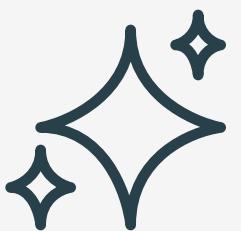
- Non-intrusive & Low maintenance
- Requires minimal behavioural changes
- Secure with data encryption
- Cost-effective



2

Proactive and smart

- AI-powered personalised insights
- Real-time monitoring
- Modular & adaptable system



3

Build to integrate with AACs

- Automated daily reports for staff to easily review at-a-glance
- Enables efficient oversight of multiple seniors
- Scalable across multiple homes and AACs

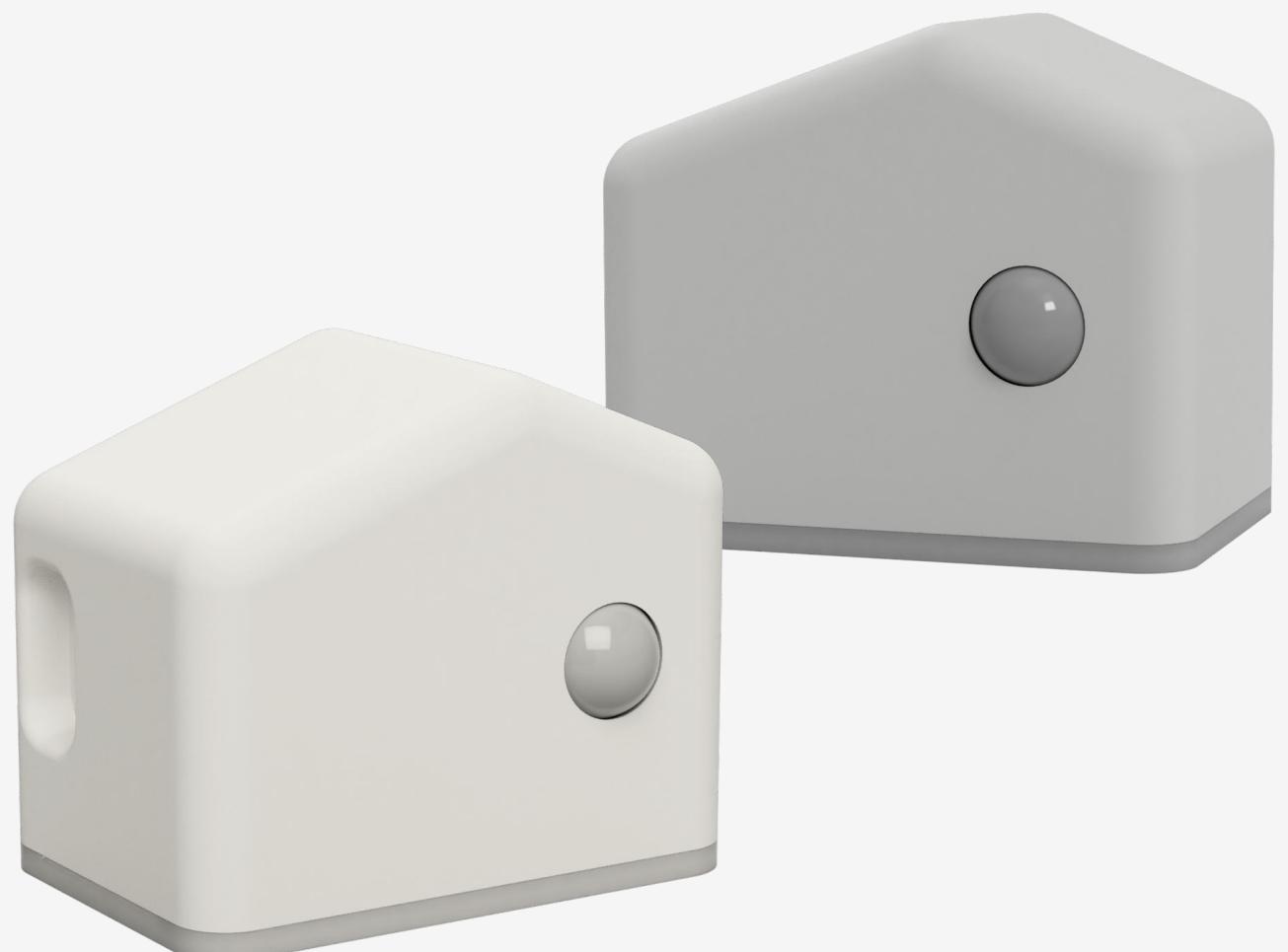


[Go to Birdhouse Dashboard](#)

1

For Seniors

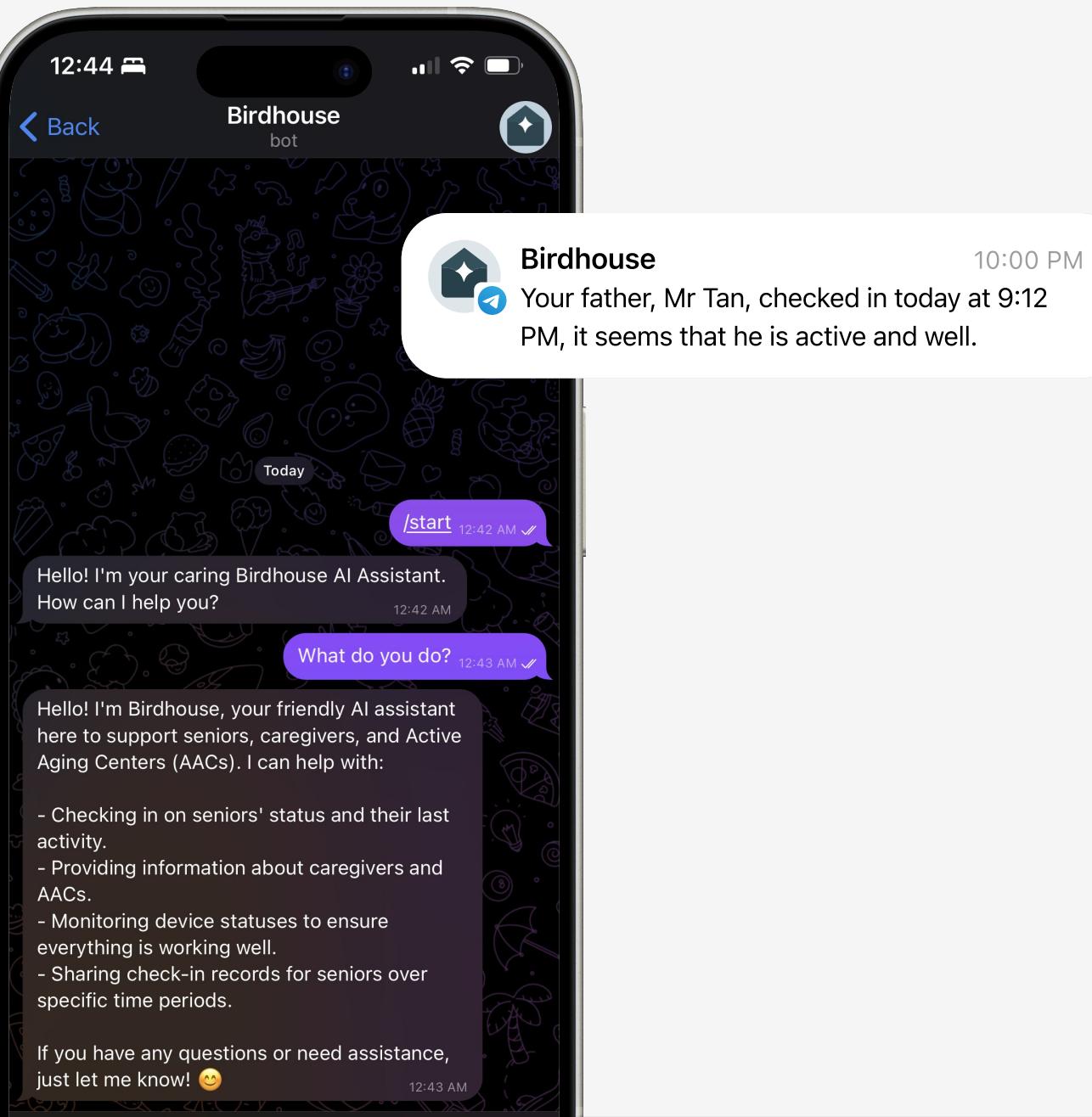
Low maintenance, low cost motion sensor that fits seamlessly without manual check-ins required.



2

For Caregivers

AI assistant with chatbot interface for caregivers to easily access data and alerts



3

For AAC

Reports & dashboard for data analytics and tracking the check-in patterns of seniors

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Birdhouse Pilot Programme with Jia Ying Active Ageing Centre

4

Seniors onboarded onto pilot

1,500+

Total no. of check-ins collected

11

Days of activity monitoring

Additional use cases discovered ✨

@BirdhouseSGBot suggest what is a good time to invite all the seniors for activities at the centre?

9:31 AM

@BirdhouseSGBot share the availability of seniors on weekdays and weekends based on historical check-in data for the last week, identify activity patterns and determine the best 1-3hrs slots

9:31 AM

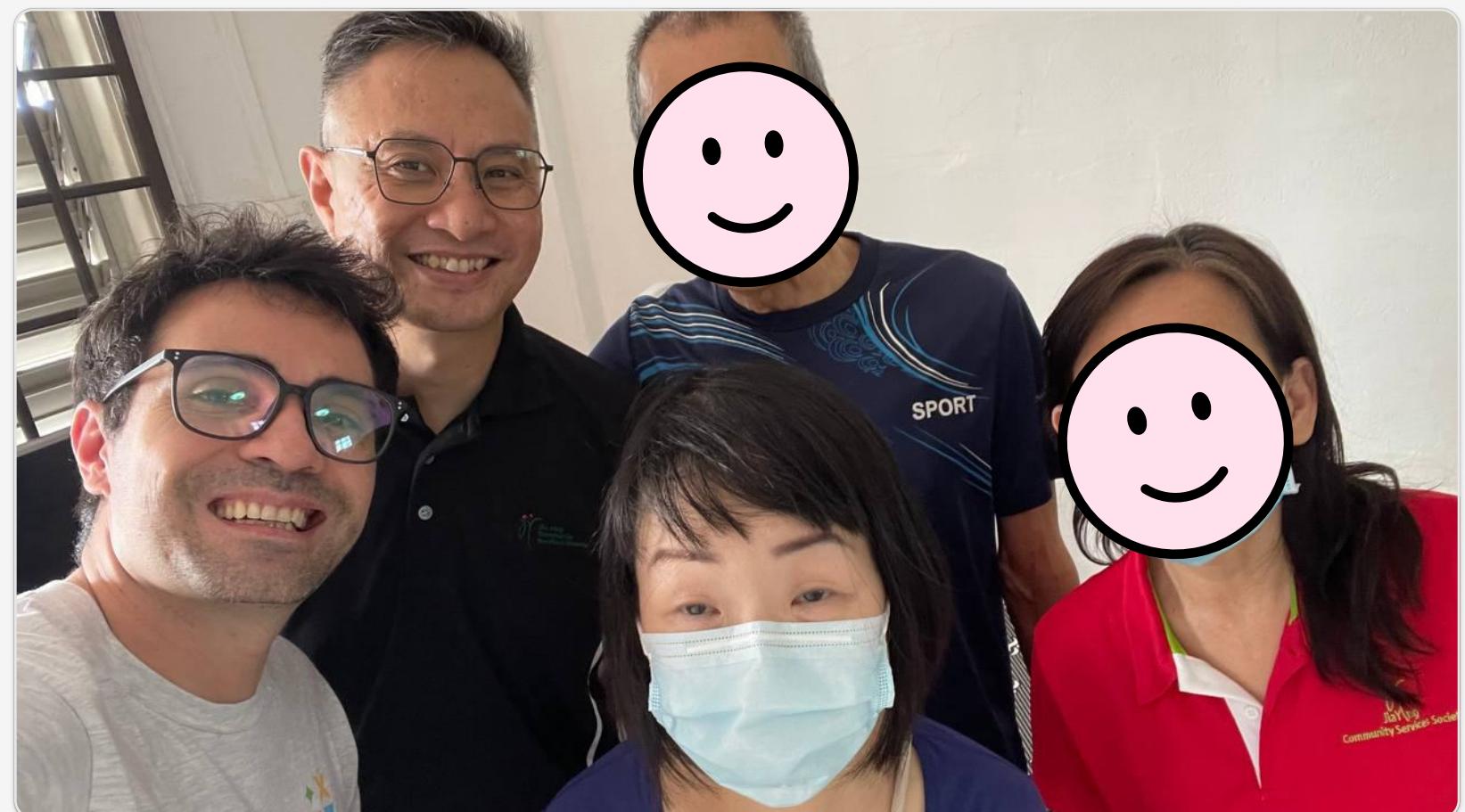




Hear it from the users

“ The AI Bot is good and easy to use, very useful as it **allows us to know that the senior is safe at home.**”

— Jia Ying AAC Staff



“ I don't mind it (Birdhouse) there for **365 days**, it doesn't hurt me, it's useful, should I faint, I'm ok!”

— Senior #1

“ Yes, we feel safer and we will keep using it (Birdhouse)”

— Senior #4

READY FOR TRIAL

“ We are ready to find another 50 seniors to install Birdhouse.”

— Jia Ying AAC Staff



Birdhouse is unique from other senior monitoring systems as it provides **continuous monitoring of seniors and is linked to AAC**.

It was designed and built through **research and formative evaluations with AIC, AAC, gerontologists and seniors**, and has been **piloted with 4 seniors** in collaboration with Jia Ying Community Services.

We have a **roadmap with short-to-long term plans to implement and manufacture Birdhouse**, including working with other AACs and manufacturers.



Opening the floor for questions...