

Main contact

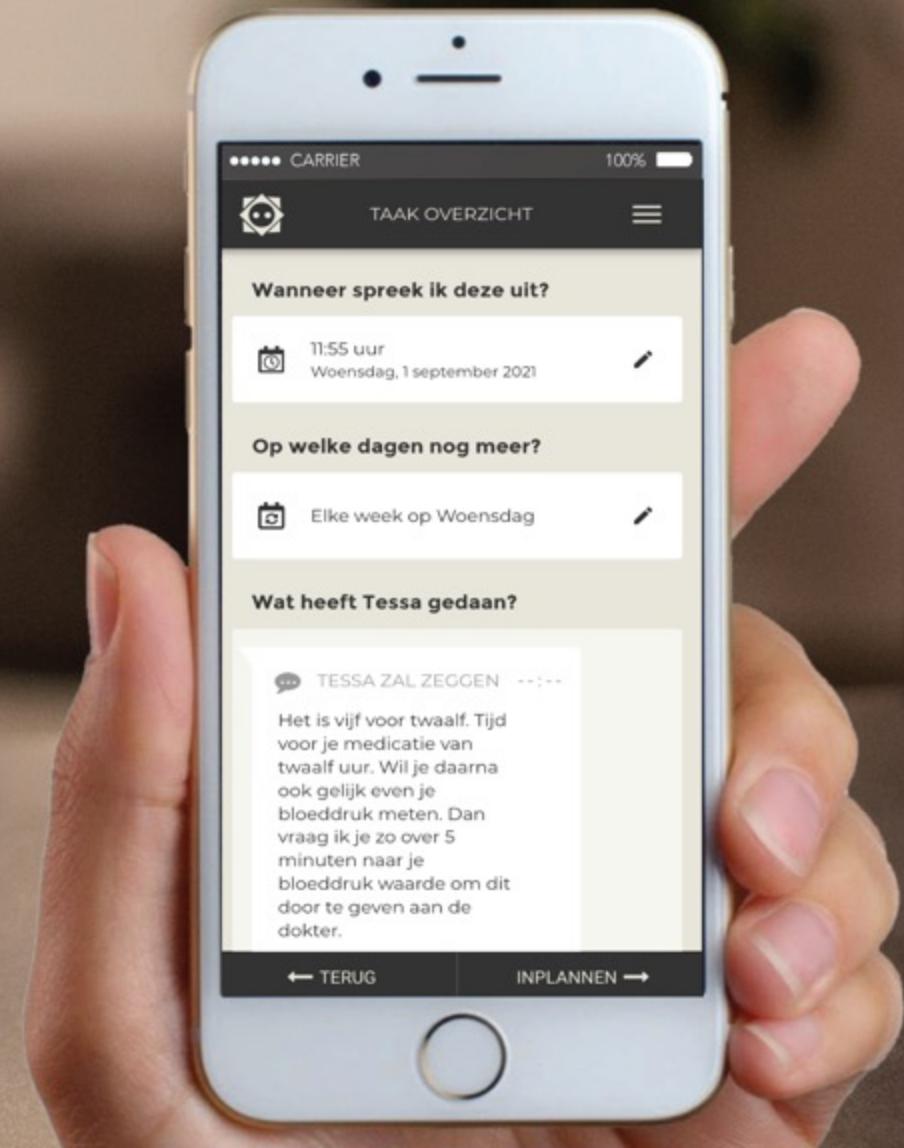
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FIRST PRODUCT

proven robot Tessa & Tinybots system



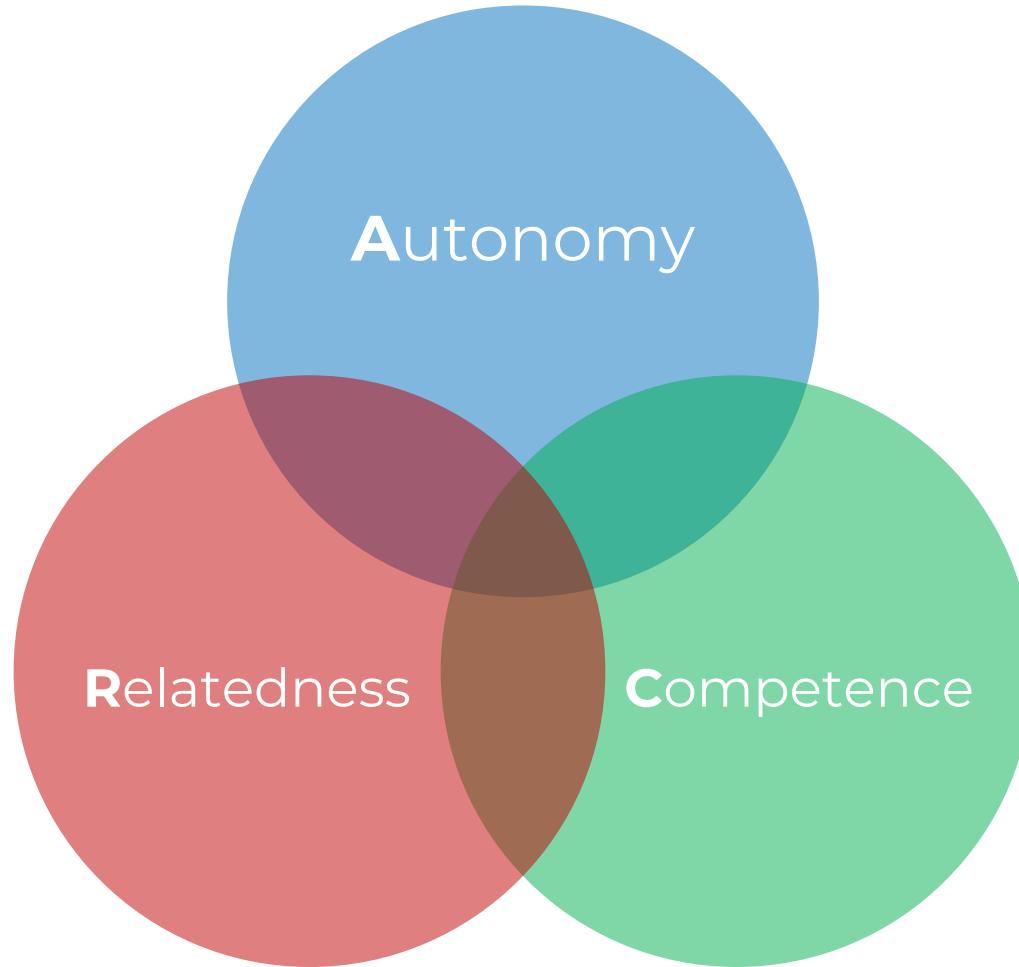
Tinybots has developed a 'social robot' called Tessa that provides verbal guidance. Tessa is connected to the Tinybots system. Caregivers and family can use a web application to schedule tasks for Tessa to provide support to the person with dementia.



Loss of autonomy is one of the worst things that can happen.
And this is the reality of 50+ million individuals with dementia.

We believe that technology can **Augment Human Autonomy**.
AI and robotics enables self-reliance and independent living for
individuals with a cognitive impairment.

The Three Basic Psychological Needs: A.R.C. (for doing and living well)



[Source: Deci, E.L., & Ryan, R.M. (2000). The "What" and "Why" of goal pursuits: Human needs and the self-determination of behavior, *Psychological Inquiry*, 11, 227-268.]



Als Tessa de individu aan een afspraakje herinnert of zegt dat het tijd is om zo te gaan eten. Voelt het minder betuttelend aan dan wanneer de zorgverlener of mantelzorger het zegt. Tessa oordeelt niet, en geeft gevoel van zelfstandigheid. (Autonomy)



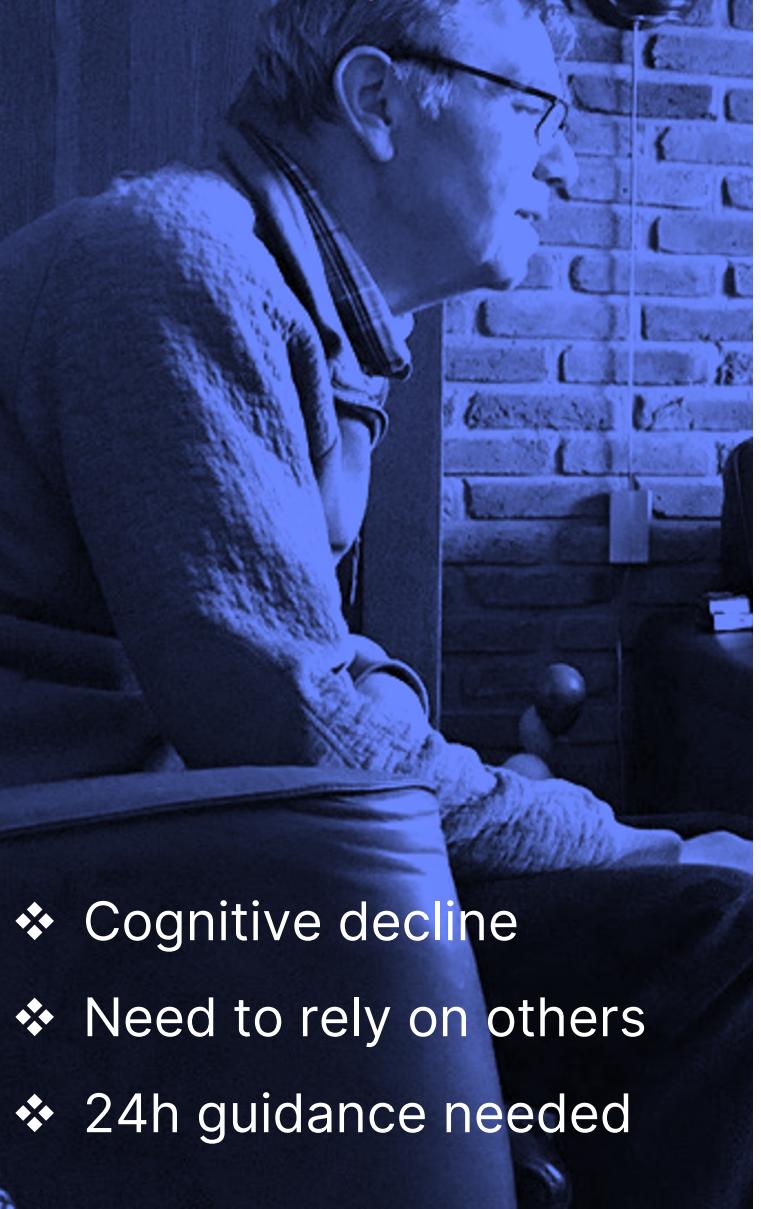
Sommige mensen zien Tessa als een maatje en voelen zich minder eenzaam, want een sociale robot heeft een 'social presence'. Maar Tinybots wilt met Tessa de relatie behouden en versterken tussen de individu met naasten, door herhalende zorgtaken weg te nemen, ruimte te maken voor persoonlijke aandacht en sociale contact te stimuleren met naasten.
(Relatedness)



ADL-activiteiten en bepaalde dagelijkse handelingen worden voor sommige mensen steeds lastiger. Tessa kan met alle geduld en rust de individu verbaal begeleiding geven via een gepersonaliseerde 'Script'. Door zoveel mogelijk de individu te ondersteunen in wat hij/zij nog kan, versterkt dit het gevoel van zelfredzaamheid. (*Competence*)

TARGET GROUP

dementia is a progressive disease



- ❖ Cognitive decline
- ❖ Need to rely on others
- ❖ 24h guidance needed

GLOBAL DETERIORATION SCALE (GDS):

stage 1 (N/A)	stage 2 (unknown)	stage 3 (2 - 7 years)	stage 4 (2 years)	stage 5 (1.5 years)	stage 6 (2.5 years)	stage 7 (1.5 - 2.5 years)
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no dementia

MCI

Early stage dementia

Mid stage dementia

Late stage dementia

SYMPTOMS:

- Normal functioning	- Forgetfulness - Slight difficulty concentrating	- Increased forgetfulness - Difficulty concentrating - Short-term memory decline - Difficulty completing tasks - Socialisation problems	- Increased forgetfulness - Difficulty concentrating - Short-term memory decline - Difficulty completing tasks - Socialisation problems - Loss of time & place orientation - Long-term memory decline - Personality & emotional changes - Anxiety - Delusions - Difficulty with speaking	- Severe loss of memory - Loss of motor skills - Require help with most activities
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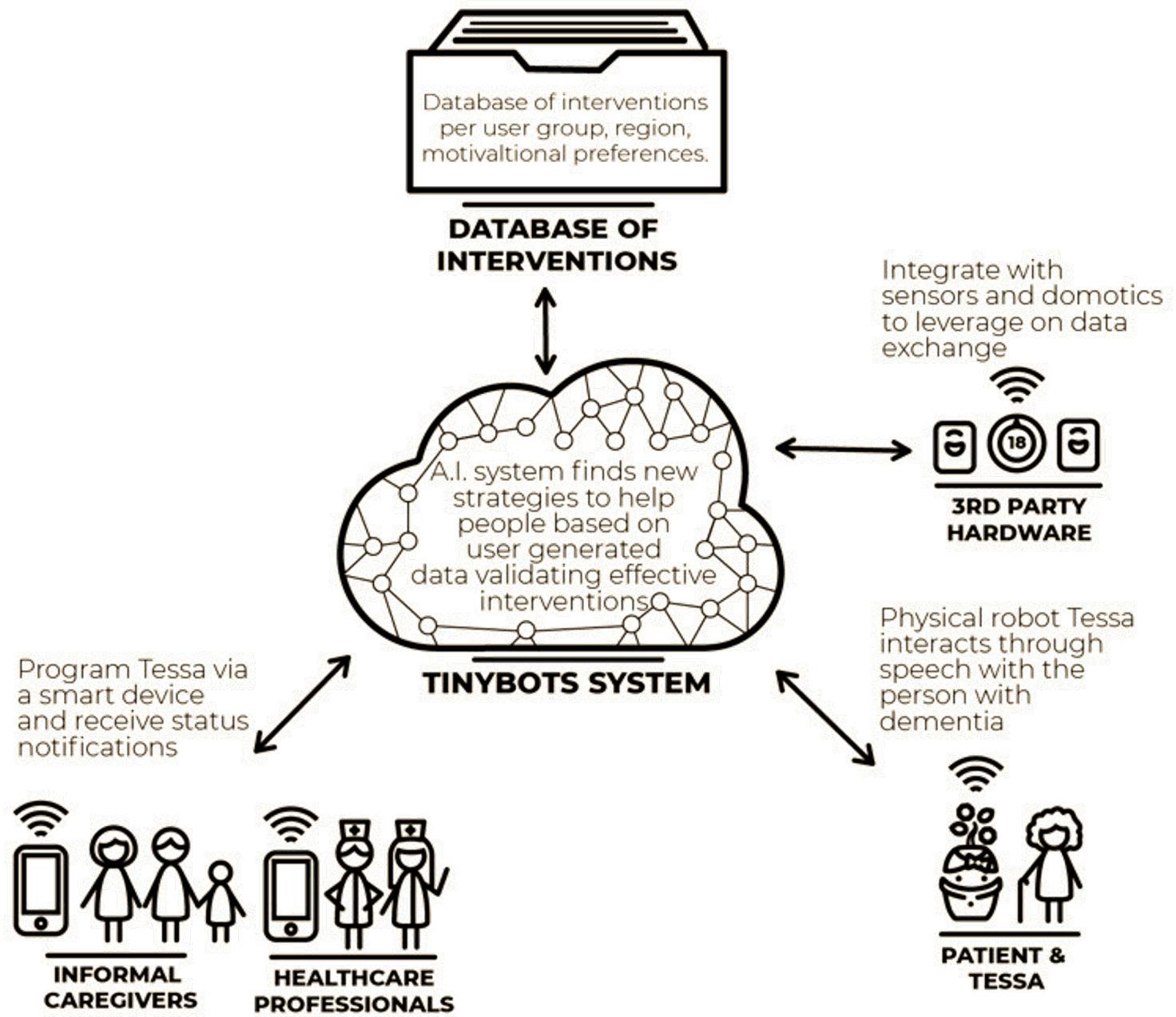
SUPPORT NEEDED:

No support needed	Support daily management - Daily structure - Occasional reminders	Support self-reliance - Daily structure - Occasional reminders - Social cues - Regulate eating & drinking habits - Medicine management - Personal hygiene - Daily monitoring of well-being check	Support self-management - Increased need for daily structure - Regular reminders - Social cues - Regulate eating & drinking habits - Medicine management - Personal hygiene - Daily monitoring of well-being	Comforting and sensory stimulation - Play favorite music at schedule - Reminiscence of past memories and life stories - Connection with family
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SOLUTION

ai technology platform

- ❖ Tinybots platform collects **user data from multiple devices** and processes data **to recommend effective interventions**.
- ❖ Tinybots platform is designed **hardware independent**, to integrate with 3rd party smart devices and robots.
- ❖ Focus on **intuitive interaction with patient** (via verbal guidance).



SOLUTION

Roadmap strategy

Phase 1

entry



Product

Impact Market

Phase 2

build ecosystem,
leverage on user data



Platform

Impact Industry

Phase 3

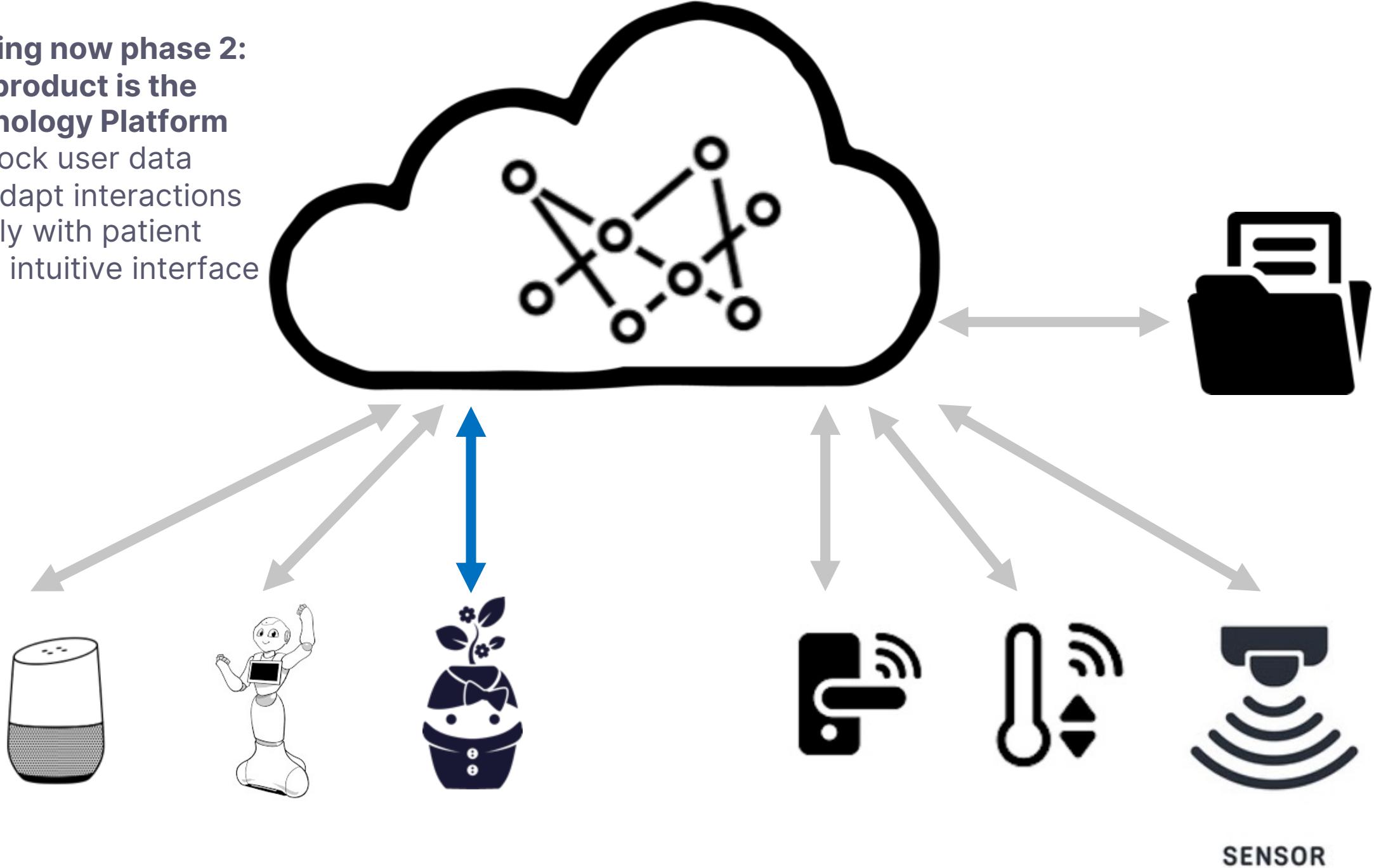
evolve ai technology



Personal AI

Impact Society

**Entering now phase 2:
core product is the
Technology Platform**
to unlock user data
that adapt interactions
directly with patient
via an intuitive interface





170+
health organizations



89+%

of patients improve
health and wellbeing



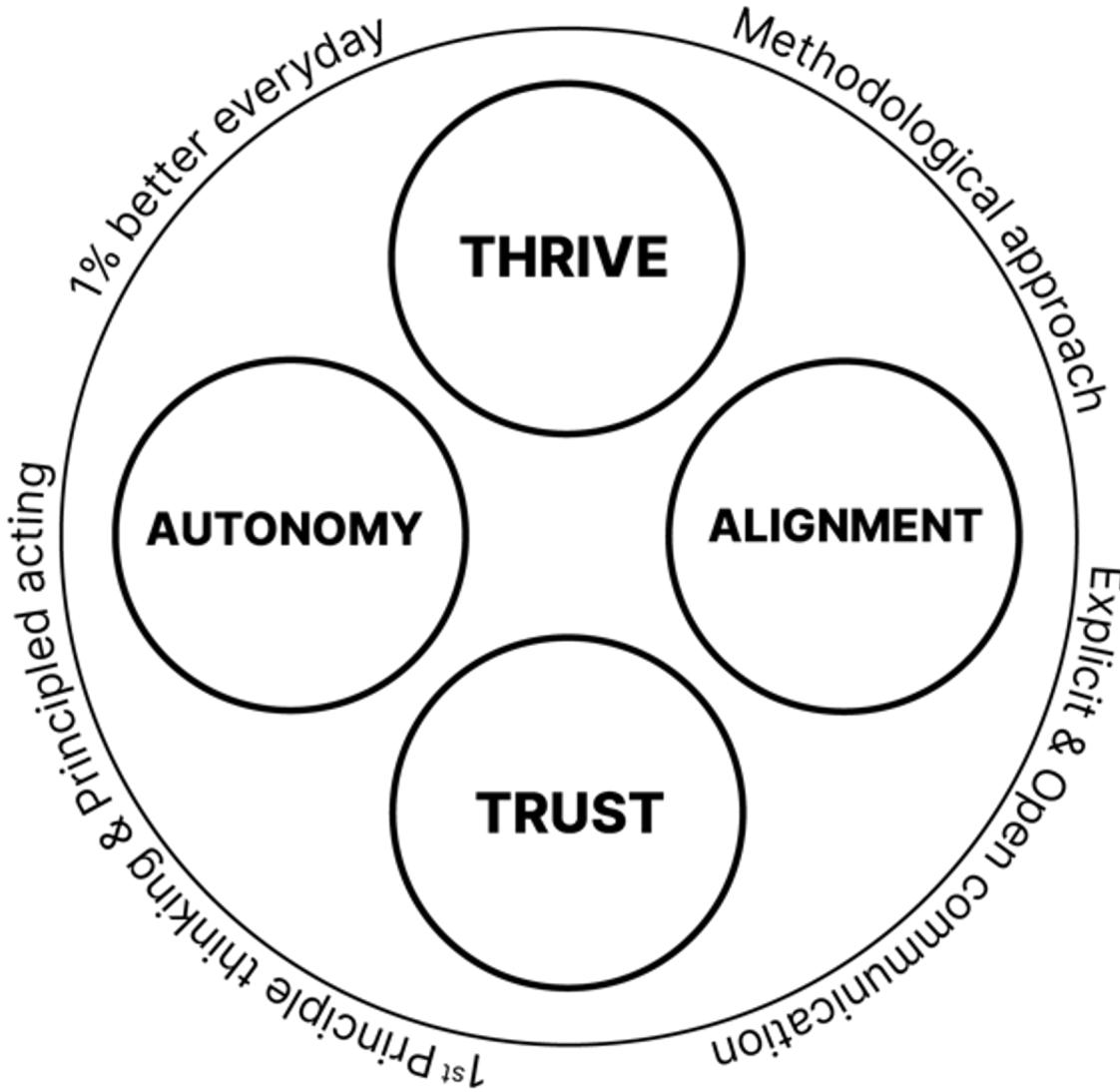
15.000+

scripts of interventions
(250.000+ days of data)

2000+
Tessa robots sold

20-25%
of homecare patients
can be supported

3+ year
Longitudinal userdata



OUTCOME RELIES ON

**Teams doing
the right things
better & faster**

The success of an organisation is the accumulation of great decisions made by its individuals.

Thank you!

*Seeking collaboration or
want to work on AI to impact society?*

Contact us: www.tinybots.nl