

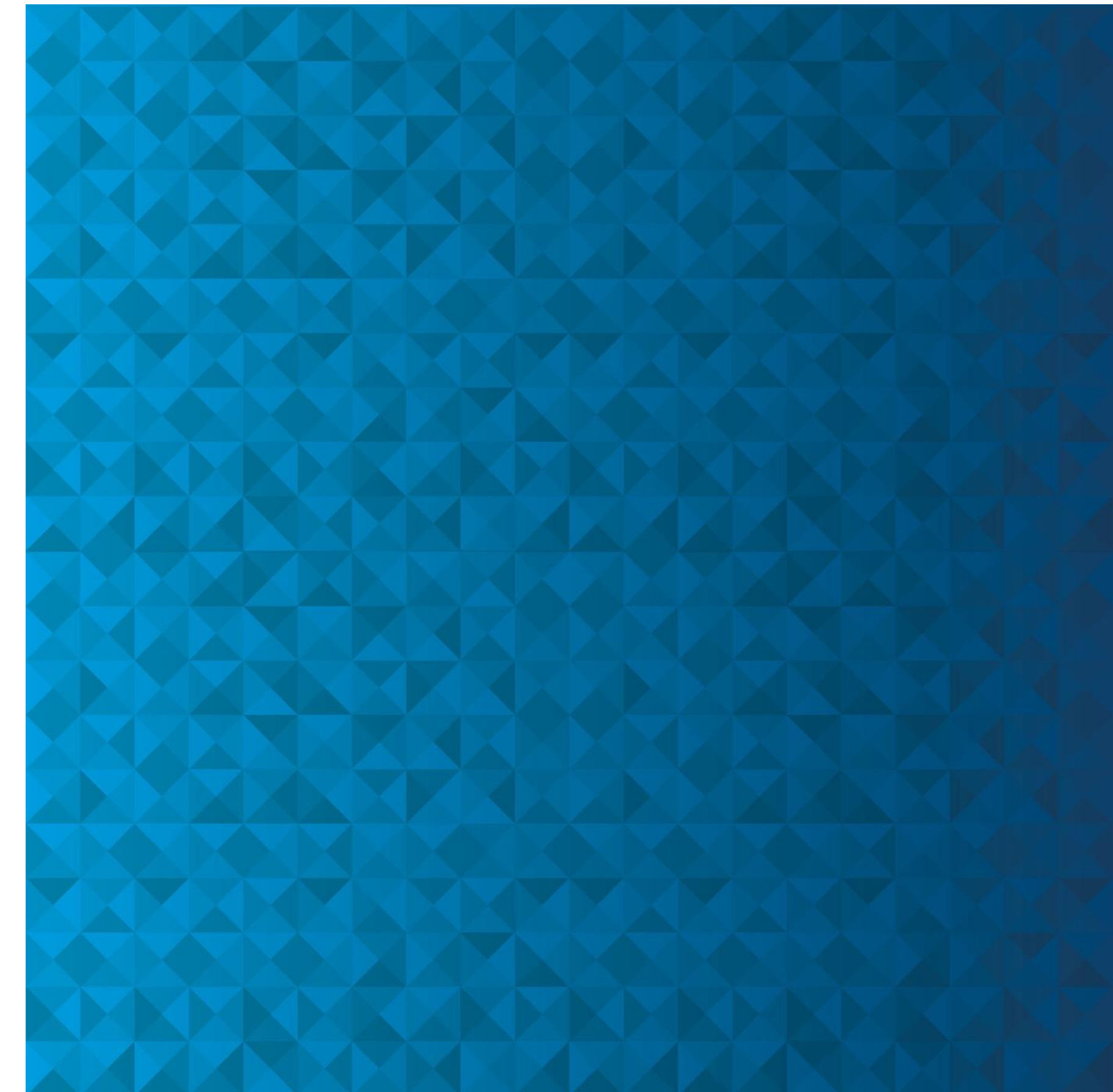
Programma

13.35 – 13.45: Welkom

13.45 – 14.15: Pitches

14.15 - 15.00: Matchmaking

15.00: Verder praten in algemene ruimte Teknowlogy



Nico van Meeteren

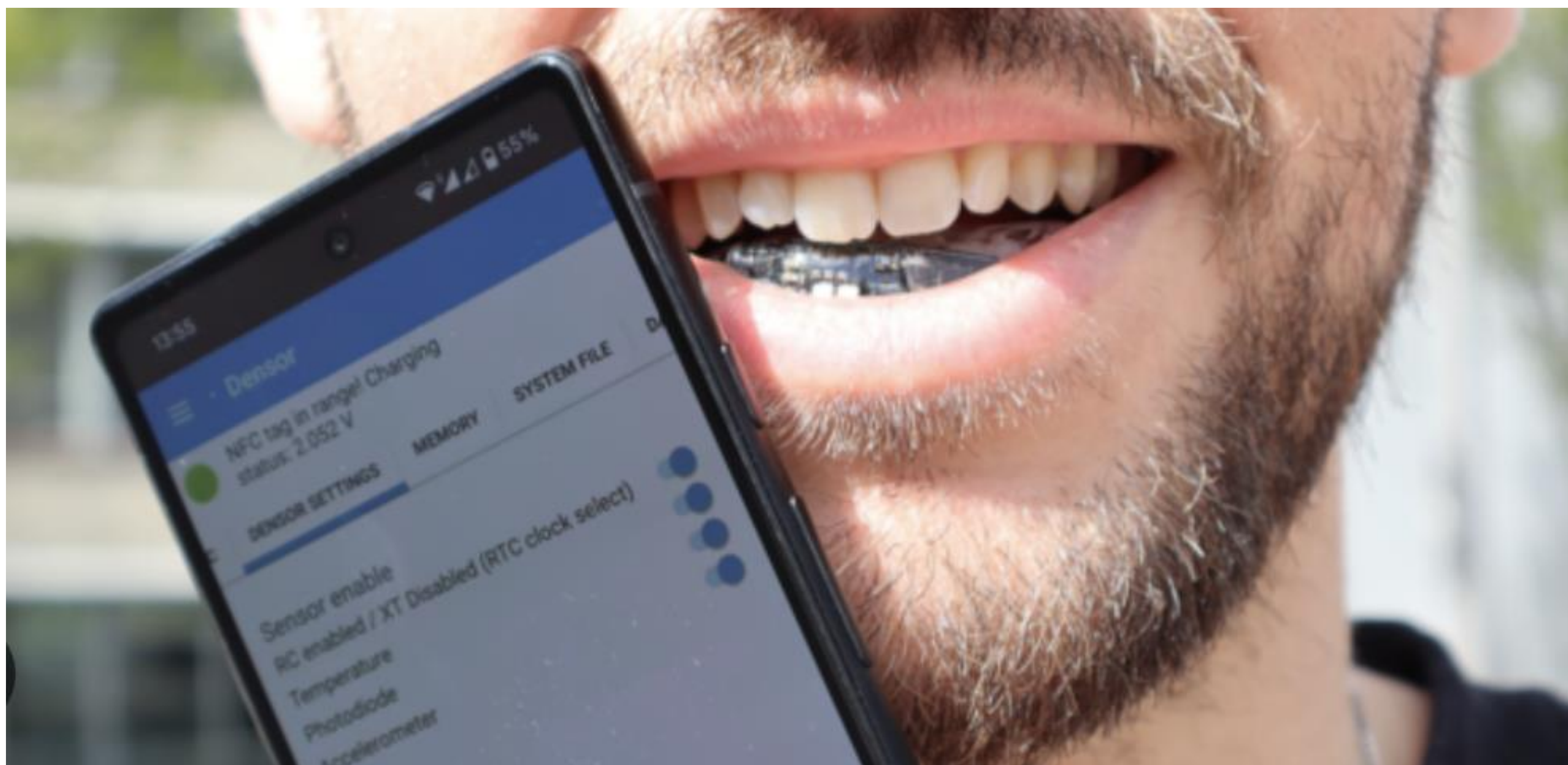
Directeur Topsector LS&H

The logo for NL Health~Holland is displayed on a blue background with a geometric pattern of triangles. The letters 'NL' are in a bold, orange font, followed by the text 'Health~Holland' in a lighter orange font.

Frits Grotenhuis

Directeur Topsector ICT





Przemysław Pawełczak



edu.nl/qw3wg

Who am I?

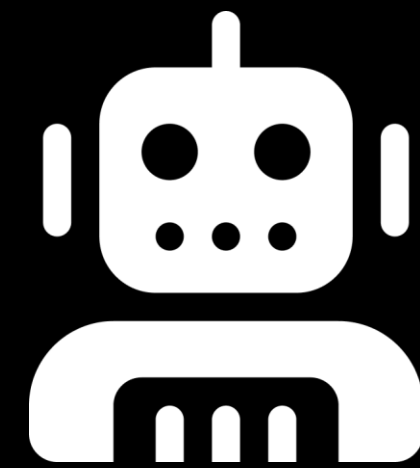
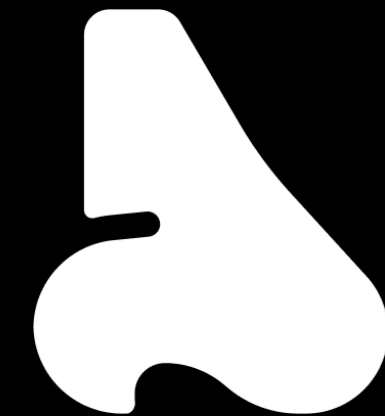
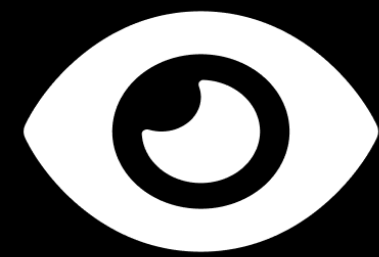
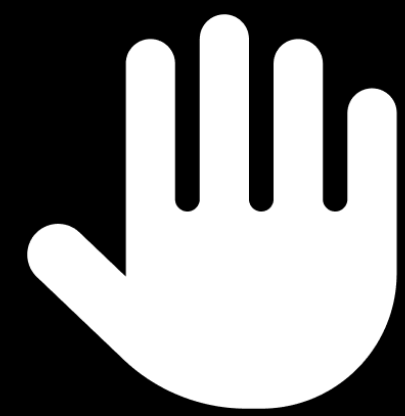
- Przemysław (Przemek) **Pawelczak** (reads *Psjemek*)
- Associate Professor Embedded Systems Group TU Delft
- Leading Sustainable Systems Lab <https://github.com/tudssl>
- Ultra-low power embedded systems expert (software + hardware)
- <https://www.pawelczak.net>

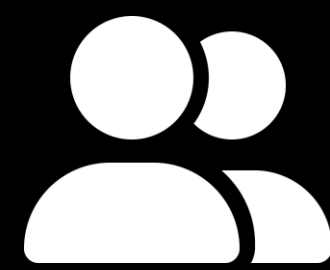


Why am I a Good Partner for the Call?

- Experience working with medical specialists (**Radboudmc**)
- Economic impact in constrained embedded systems (**Nowi**)
- Practical experience in building hardware (**NFC, BLE**)
- Practical demos of over-the-air software updates (**LoRa, RFID**)
- Large publicity (**Wall Street Journal, 100+ YT views**)



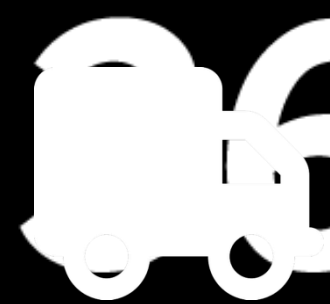




7



3



32 000



100



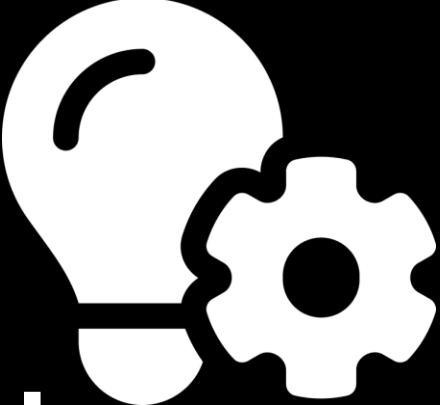
25 000 000

360Locate



Jimily Asiedu
+31 6 36037345
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→  →

Paul Redert
+31 6 38081148
p.redert@360locate.com



19 juni 2025



Matchmaking

Cybersecurity

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DIGITALISERING

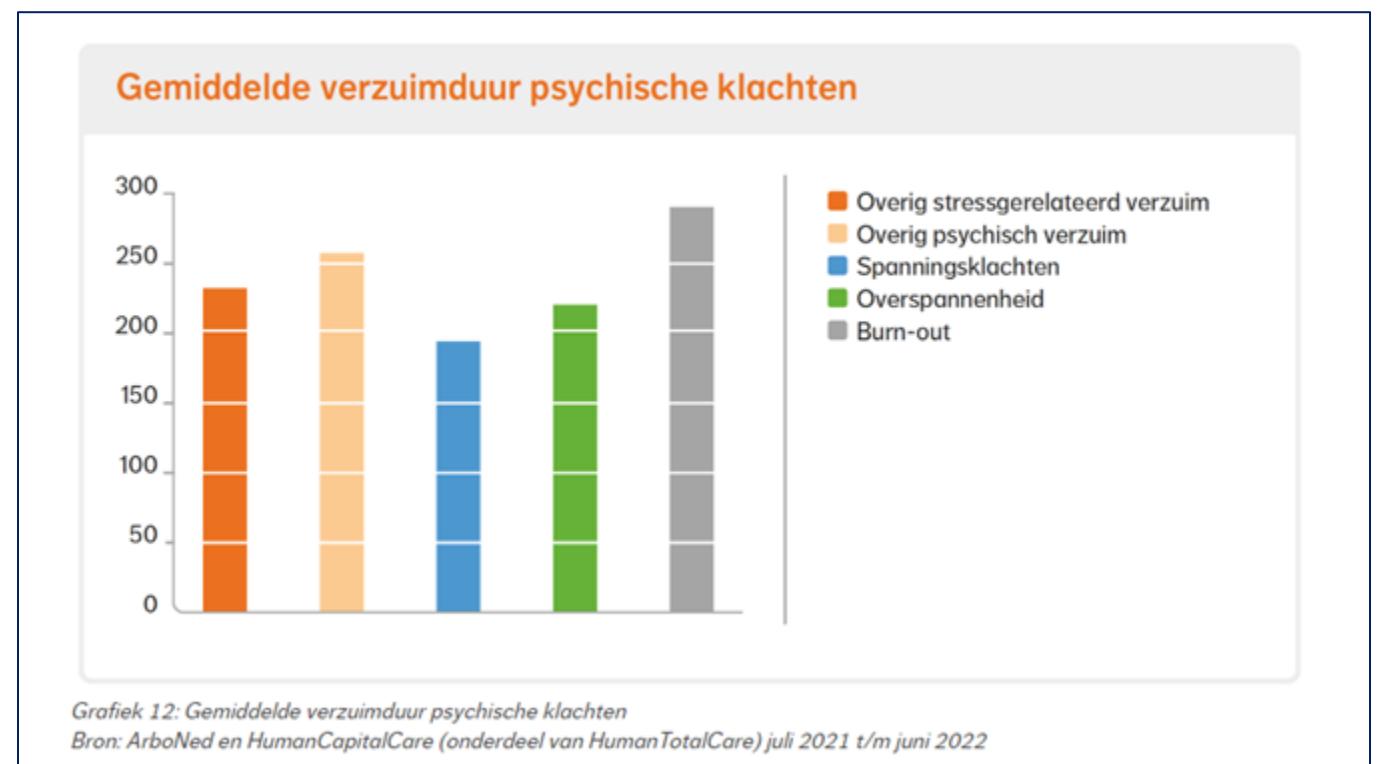
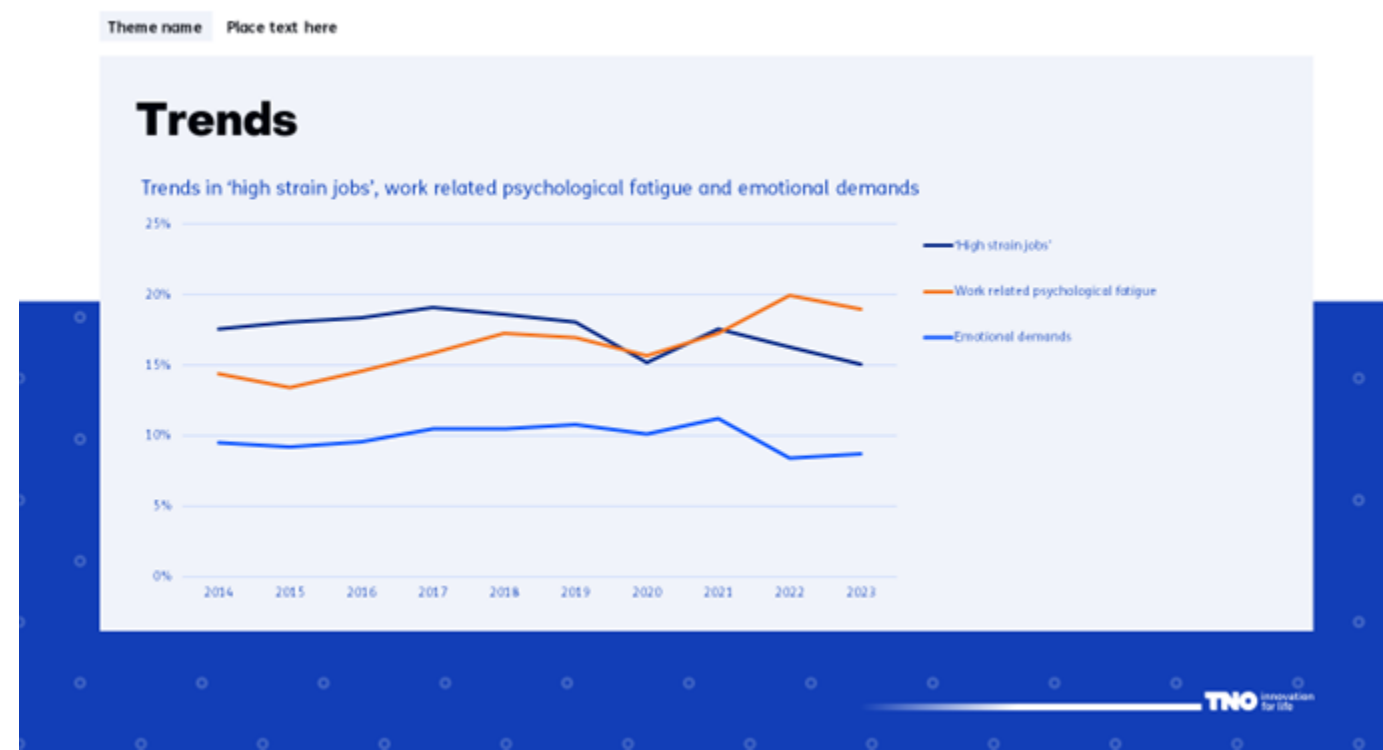
STRATEGISCHE
AGENDA
2024 - 2027



DESTRESS: Timely detection of stress signals to promote organizational and individual resilience

10M Euro NWA project

- 42% (almost) always available outside working hours
- 60% spend the entire day on a laptop or smartphone
- 24% experience information overload
- 38% believe measures are necessary to prevent stress
- Costs due to psychological complaints: €4.7 billion per year
- 28% of work-related absenteeism is due to work pressure



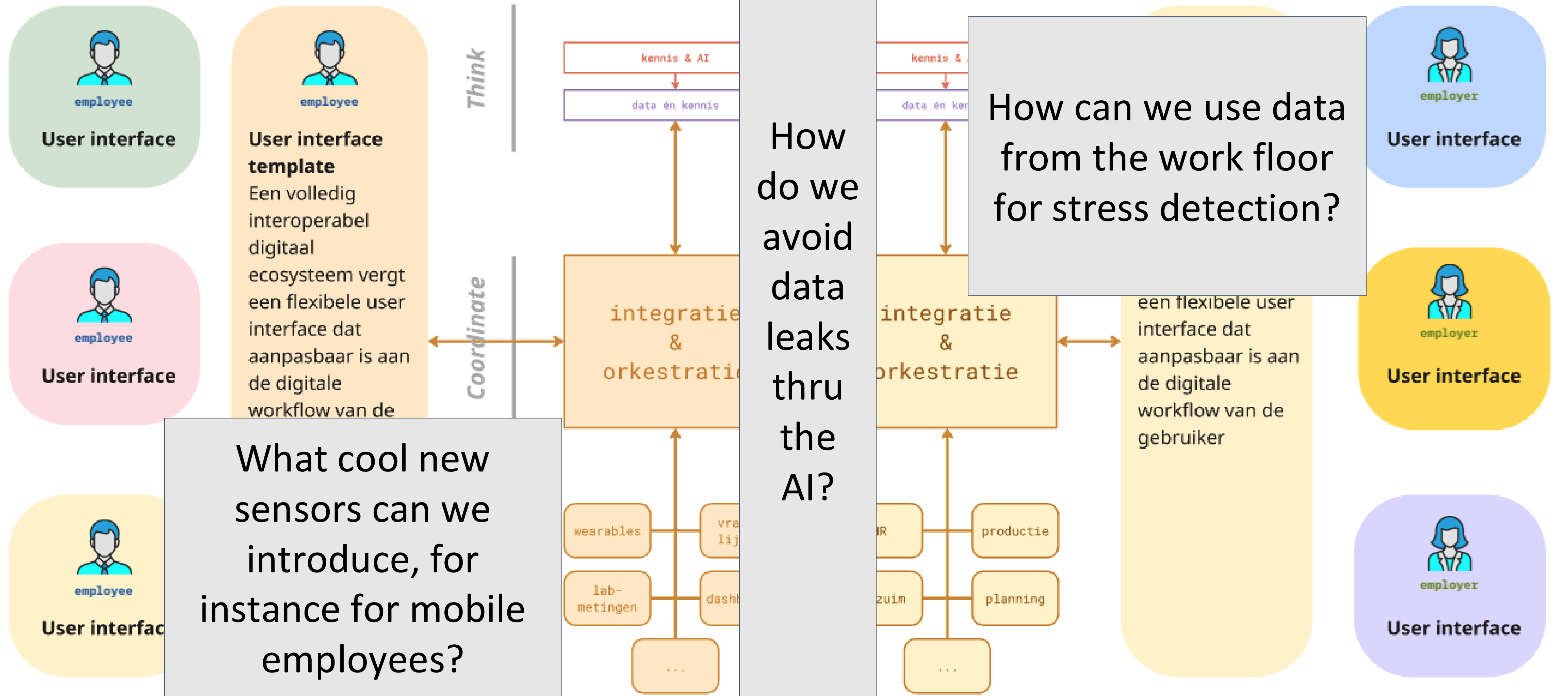
Stress signals offer an opportunity! Employers and employees can take action at an early stage

DESTRESS Solution: The Employers, Employees, and (company) Doctors Share Data



Werknemers

Werkgevers



Our Partner Search



Parties experienced with:

- Medical health files
- New sensors (e.g., for mobile employees)
- AI and Health Data
- Standards in health data processing
- Projects with similar challenges

More info? slinger.jansen@uu.nl





“Thinking about the things I can’t do any more is soul-destroying.”

Daphne, battling diabetic foot ulcers since 1999

Diabetic foot ulcers affect 2% of the global population

7%

over 530 mln people worldwide have diabetes, 7% of all adults

25%

15%-34% of diabetes patients get a foot ulcer in their lifetime

20 s

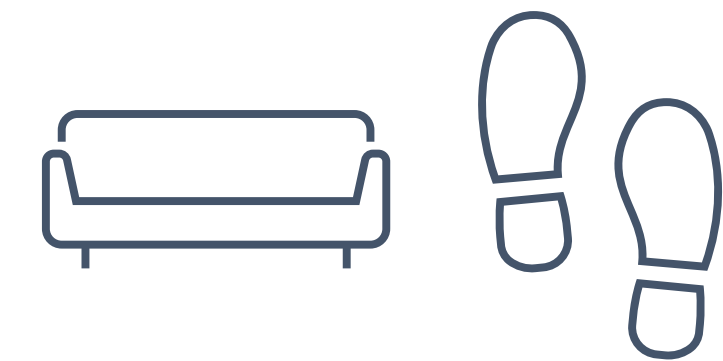
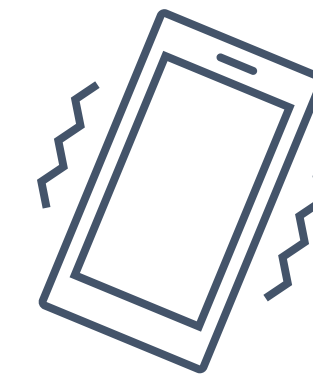
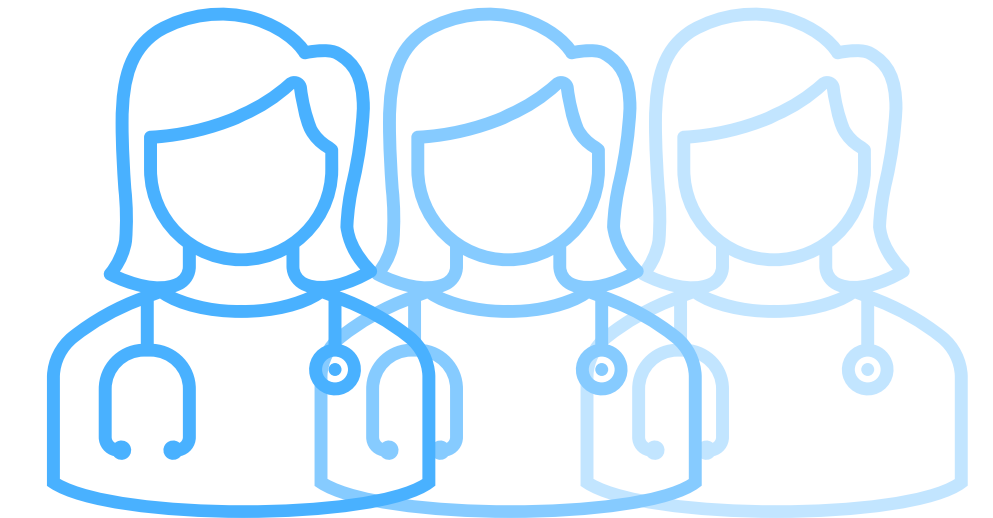
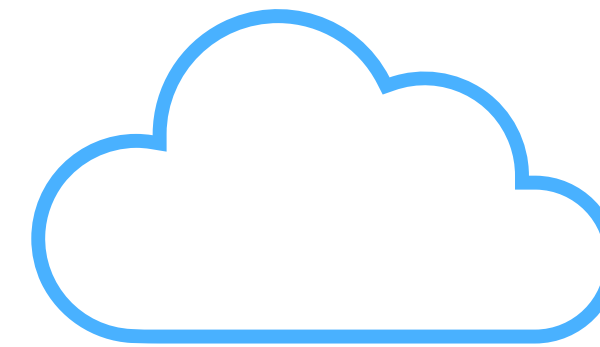
each 20s a non-healing foot ulcer results in an amputation

0.6%

of all direct healthcare costs € 13,500/ulcer, 65 home visits

Sources: Bus, S. A. & van Netten, J. J. A shift in priority in diabetic foot care and research: 75% of foot ulcers are preventable. Diabetes/metabolism research and reviews 32 Suppl 1, 195–200 (2016). International Diabetes Federation, D-Foot International, Armstrong, D. G., Boulton, A. J. M. & Bus, S. A. Diabetic Foot Ulcers and Their Recurrence. New England Journal of Medicine 376, 2367–2375 (2017). World Bank 2021, IDF Atlas 10th edition

Secuped enables patients to avoid ulcers with user-friendly and fully automatic home monitoring



Phone, EPD, etc.

Rest

Insoles

Place feet >> Measure 20 s >> Walk away >> Alerts & Reminders >> Timely intervention

> **User-friendly** Temperature monitoring

> **Timely** Alerts for patient and doctor

> **Automatic** Logging and analysis

> **Supportive** Reminders for adherence

We offer



Enthusiastic team (based in Leiden)

Hardware under development, but still flexible

Extensive network with healthcare providers, patients, payers, municipalities, others...

The opportunity to help to:
keep > 10.000 patients out of the hospital and
save > 500.000 home care visits in NL alone

Will you team up with us?



We need

Someone to keep our patients' data safe

Secure solution in a challenging setting

Extremely easy to use for patients and HCPs

Used for years (5-10), with changing healthcare providers and care settings

Connecting to existing information systems

Sensitive data in a regulated environment

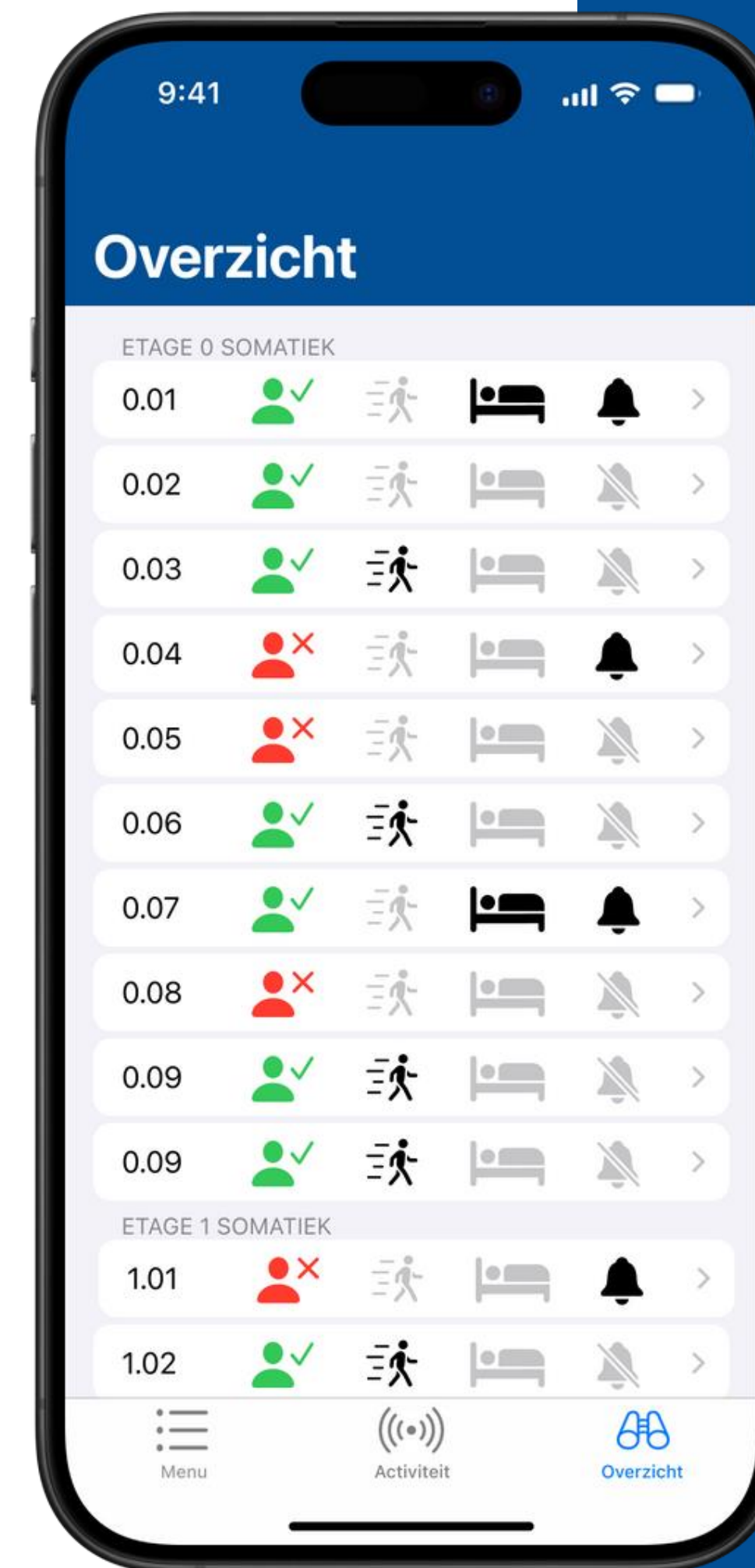
martijn@secuped.com

Invisible monitoring replaces unnecessary routine rounds

Without wearables.
Without camera's.
With vision for care.

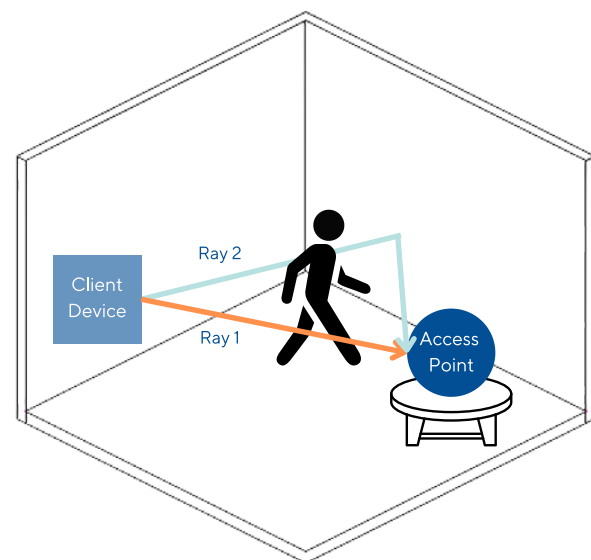
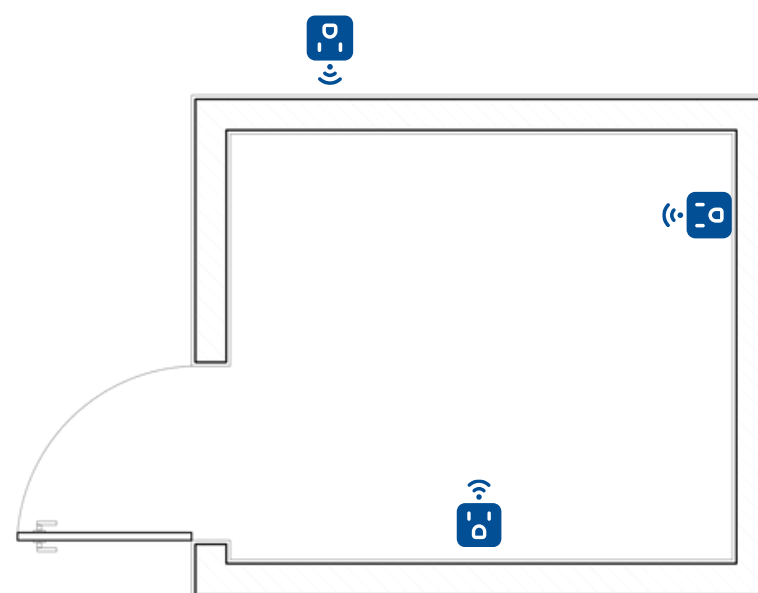


PAVA



Presence detection

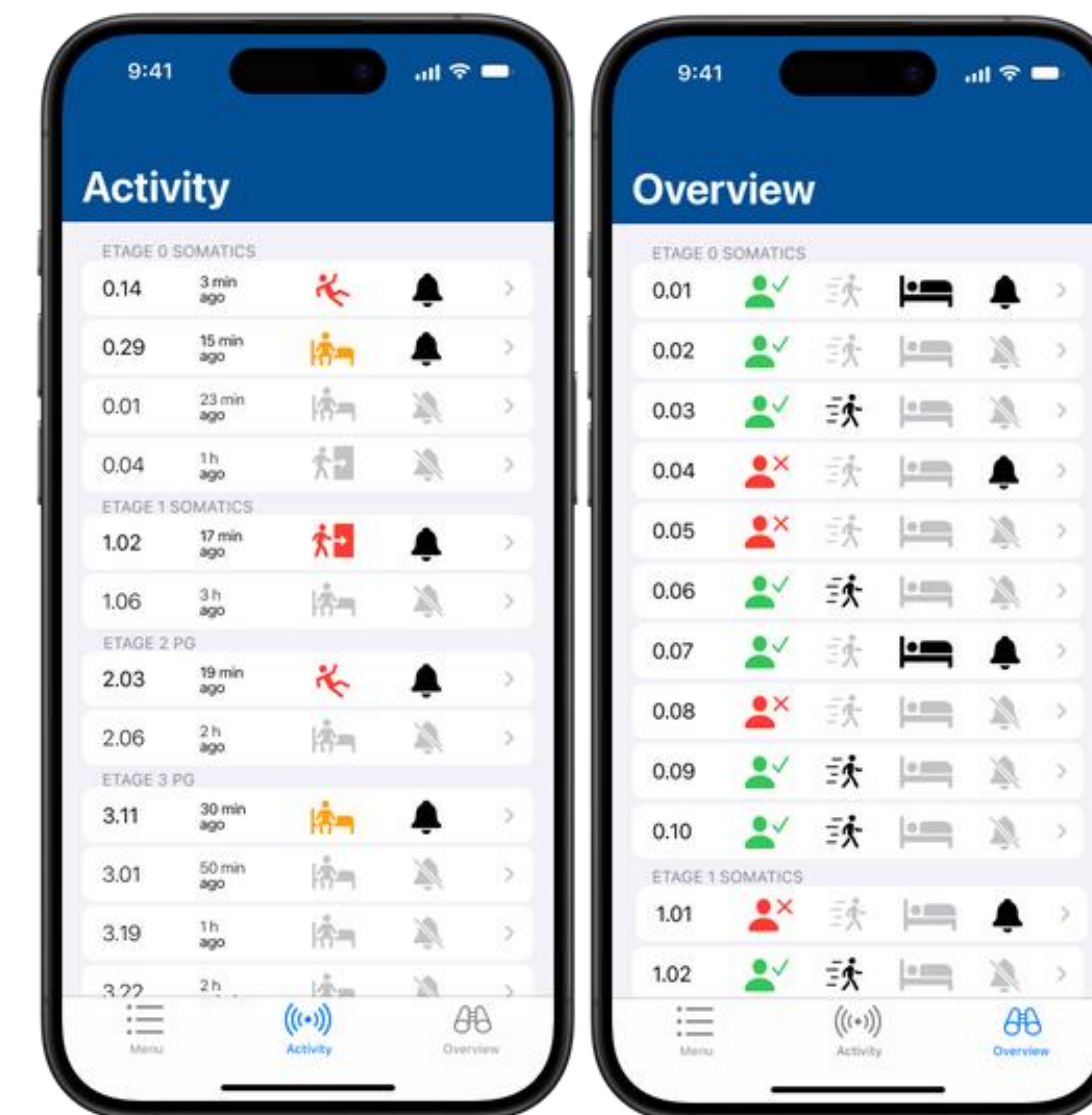
1. Create WiFi Sensing **mesh network**



2. **Remote monitoring** of all residents in the facility



3. **Real-time** insight into occupancy and motion patterns



Hardware



Off-the-shelf



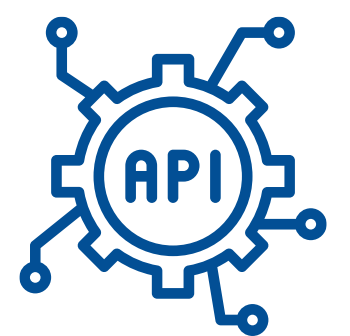
Software



AI-model



API



Data & integratie

Development roadmap

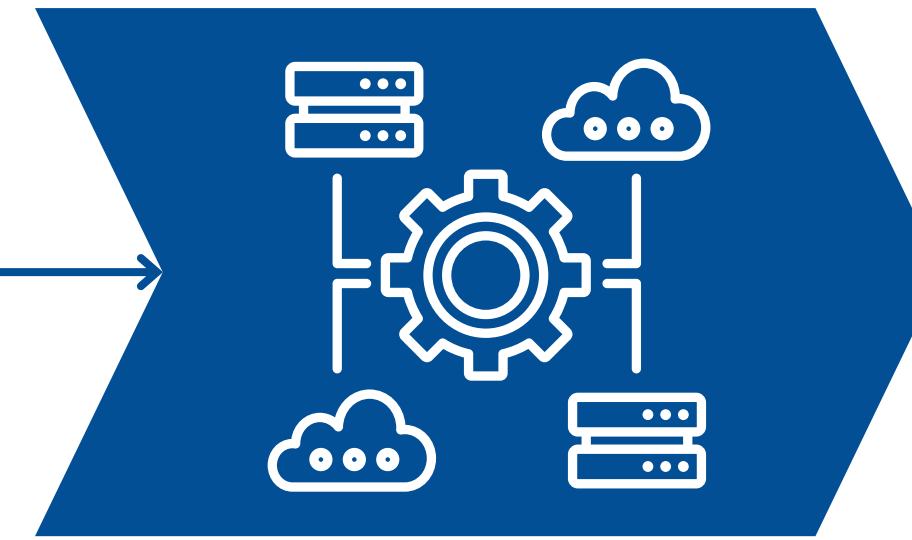
Product Launch



2025

- Launch standalone product
- Presence & activity detection

Partner integration



2025 - 2026

- Integrate with other suppliers
- Expand mesh networks with existing sensors
- Location detection
- Lifestyle monitoring

19 juni 2025



Matchmaking

Cybersecurity

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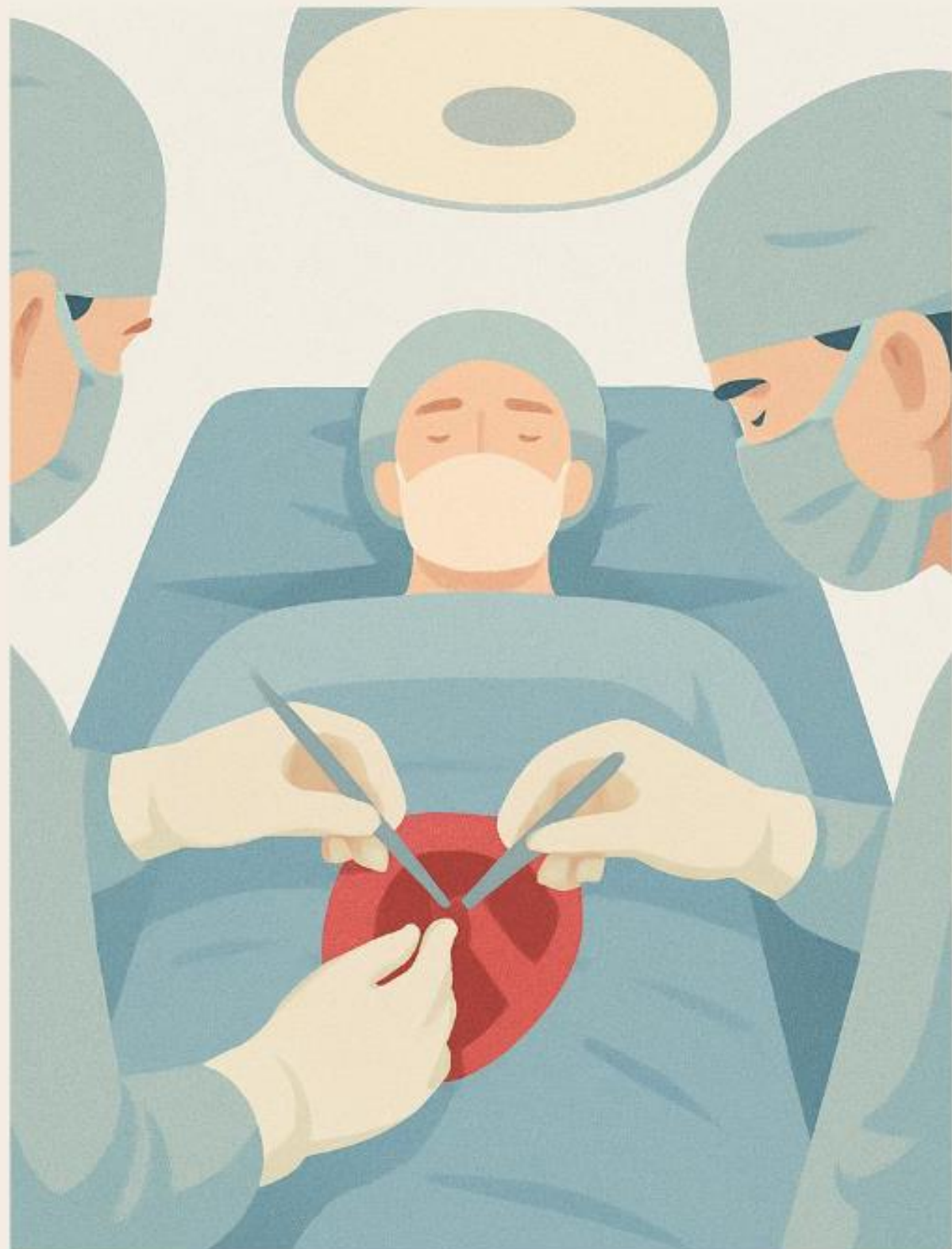
DIGITALISERING

STRATEGISCHE
AGENDA
2024 - 2027

Multi-factor Bio-Authentication for secure cardiovascular monitoring

Egon L. van den Broek

e.l.vandenbroek@uu.nl / vandenbroek@acm.org



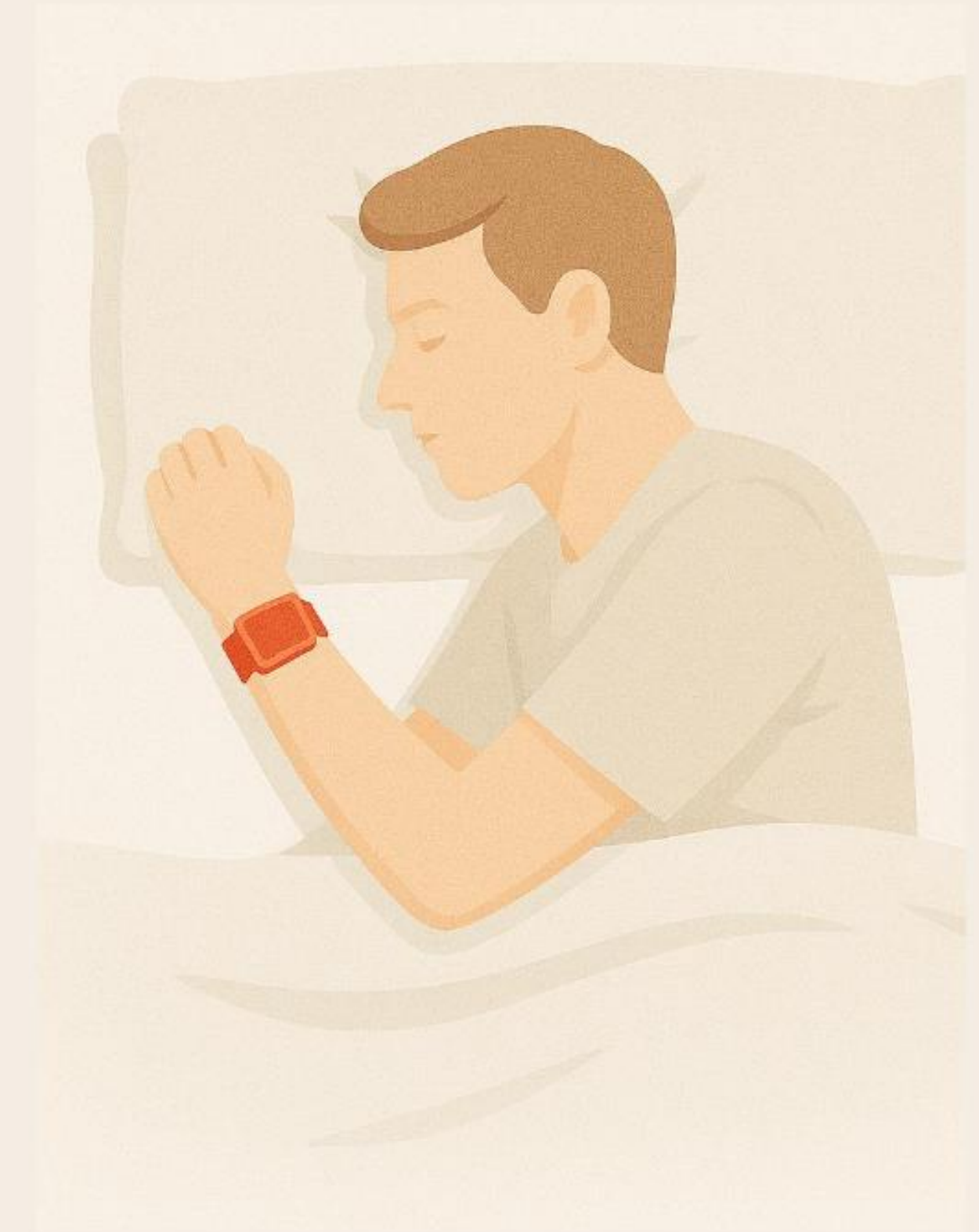
Surgical procedure



Remote cardiac
rehabilitation



Comfortable for
the patient



24/7 continuous
monitoring



Secure
doctor-watch connection ...

... unsecure
watch-patient connection.

Multi-factor Bio-Authentication for secure cardiovascular monitoring

Facts:

1. No two bodies are alike
2. People have daily routines
3. No two routines are alike

Idea: Use conventional security, conventional measurements, biometrics and daily routine to create secure doctor-patient connections.

How: We will extract multiple stable, knowledge-based metrics from physiological signals (e.g., ECG, PPG, respiration, and gait) and behavioral patterns (e.g., meal timing, sleep stages) to generate stable yet continuously updated encryption keys for secure communication.

[nature](#) > [news](#) > [article](#)

NEWS | 12 June 2025

How you breathe is like a fingerprint that can identify you

Device, system and method for determining health information related to the cardiovascular system

Abstract

The present invention relates to a device, system and method for determining health information related to the cardiovascular system of a subject. To improve the accuracy of the determined health information the device comprises a HR input (31) configured to obtain a time-dependent heart rate, HR, related signal representing or allowing to derive the subject's heart rate over time; an event selection input (32) configured to obtain an event selection signal allowing to detect a movement event of the subject; a processing unit (33) configured to determine the health information related to the cardiovascular system of a subject from the obtained HR related signal and the obtained event selection signal; and an output (34) configured to output the determined health information. The processing unit (33) is configured to detect movement events of the subject based on the event selection signal, extract time segments of the HR related signal, a time segment covering a period including the respective movement event, combine the extracted time segments to compute an

EP4124289A1
European Patent Office

[Download PDF](#) [Find Prior](#)

Other languages: [German](#), [French](#)

Inventor: [Adrianus Johannes Maria D](#)
[Joanne Henriëtte Desirée Monique W](#)
[Van Den Broek](#)

Current Assignee : [Koninklijke Philips](#)

Learning Human Identity From Motion Patterns

NATALIA NEVEROVA¹, CHRISTIAN WOLF¹, GRIFFIN LACEY², LEX FRIDMAN³, DEEPAK CHANDRA⁴, BRANDON BARBELLO⁴, AND GRAHAM TAYLOR²

¹Laboratoire d'InfoRmatique en Image et Systèmes, Centre National de la Recherche Scientifique, Institut National des Sciences Appliquées de Lyon, Université de Lyon, Lyon 69621, France

²School of Engineering, University of Guelph, Guelph, ON N1G 2W1, Canada

³Massachusetts Institute of Technology, Cambridge, MA 02139, USA

⁴Google, Mountain View, CA 94043, USA

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Resource | [Open access](#) | Published: 27 January 2022

The fast continuous wavelet transformation (fCWT) for real-time, high-quality, noise-resistant time–frequency analysis

[Lukas P. A. Arts](#) [✉](#) & [Egon. L. van den Broek](#) [✉](#)

19 juni 2025



Matchmaking

Cybersecurity

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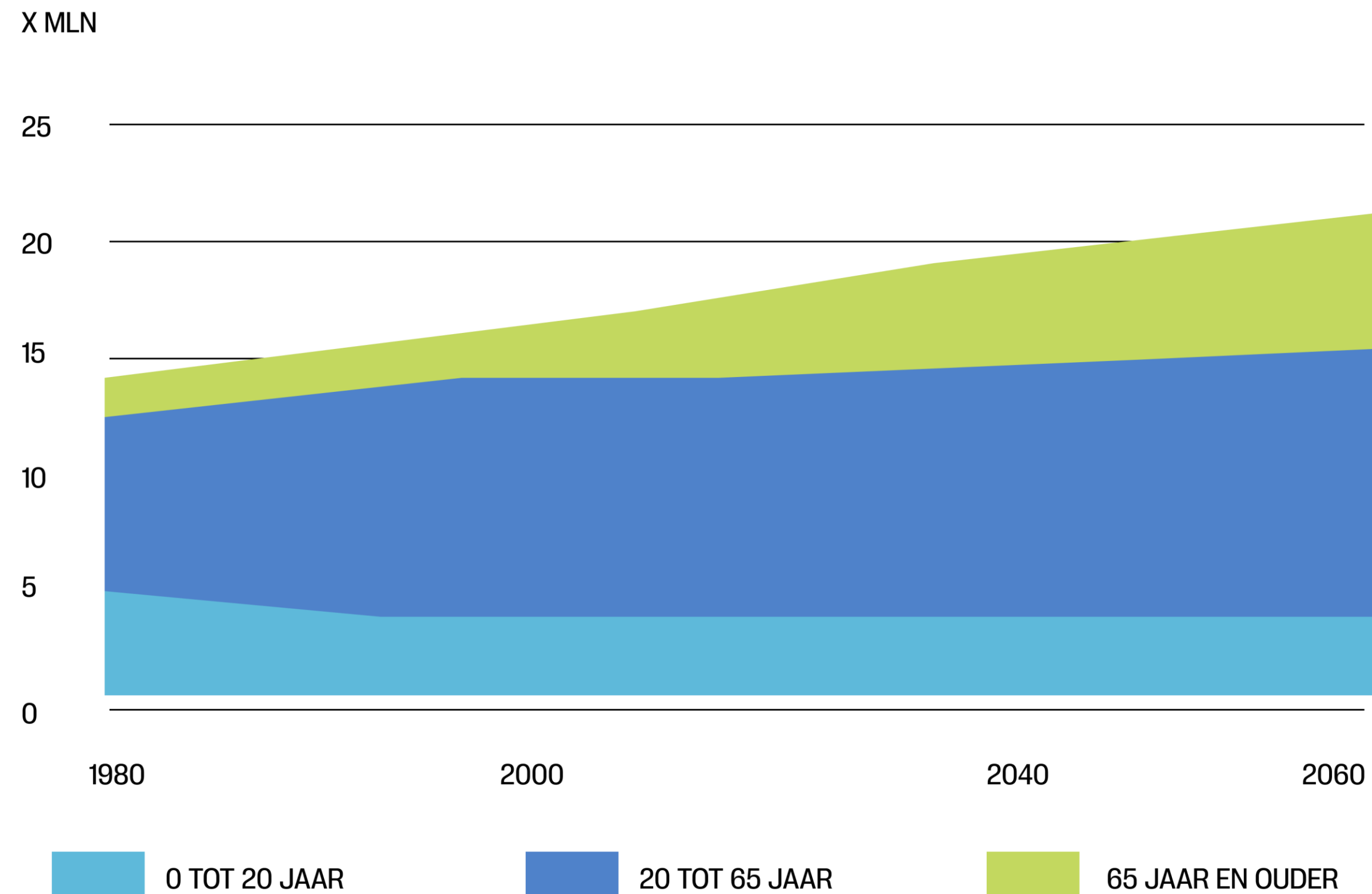


DIGITALISERING

STRATEGISCHE
AGENDA
2024 - 2027

RUIM 3,6 MILJOEN OUDEREN IN 2024

BEVOLKING OP 1 JANUARI NAAR LEEFTIJD (BRON CBS)



GEEN OPLOSSING



WEARABLES WERKEN NIET OMDAT OUDEREN
ZE NIET BEDIENEN ALS HET MOET, OF
AFDOEN.

OPLOSSING

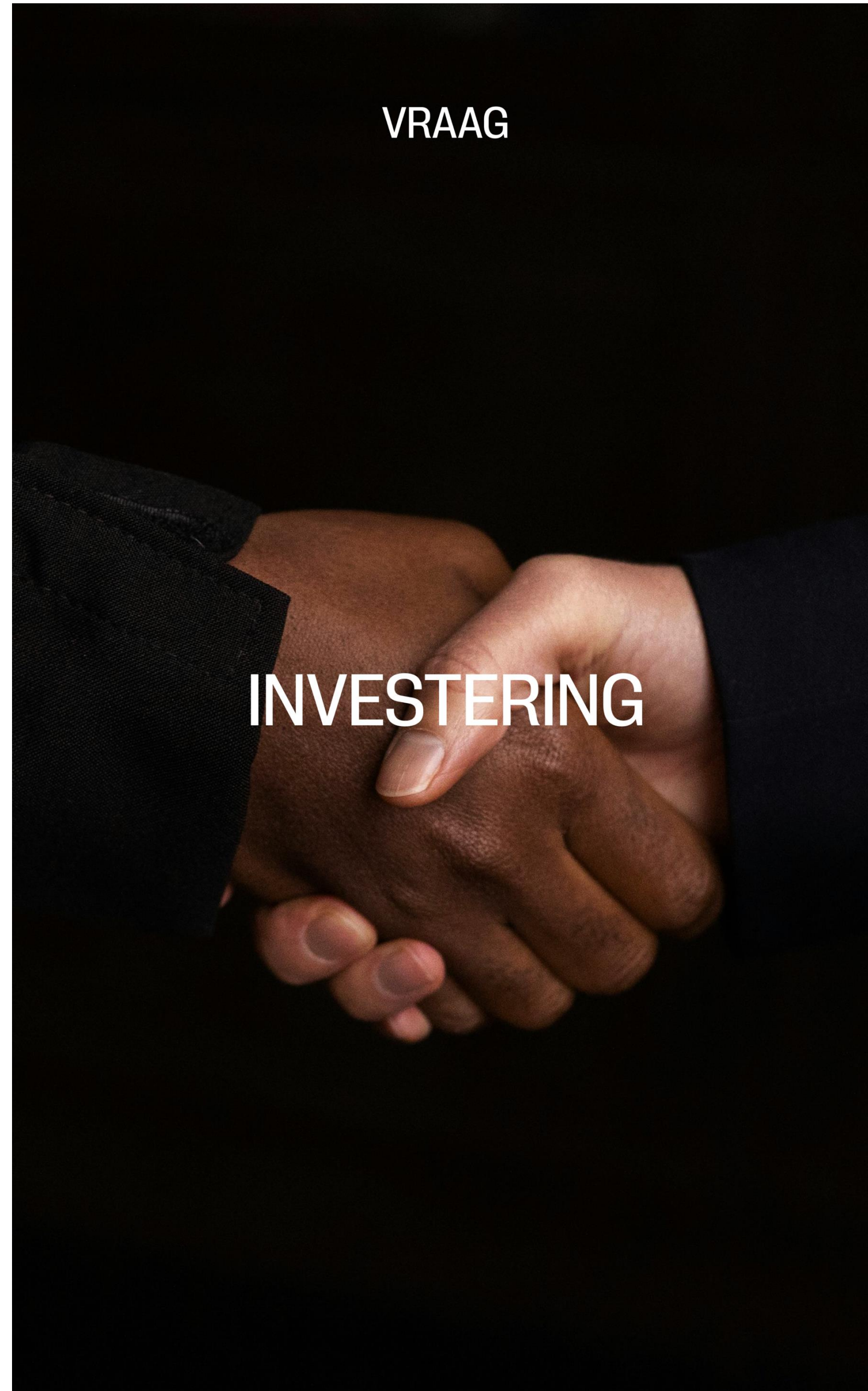


TOUCH BASE

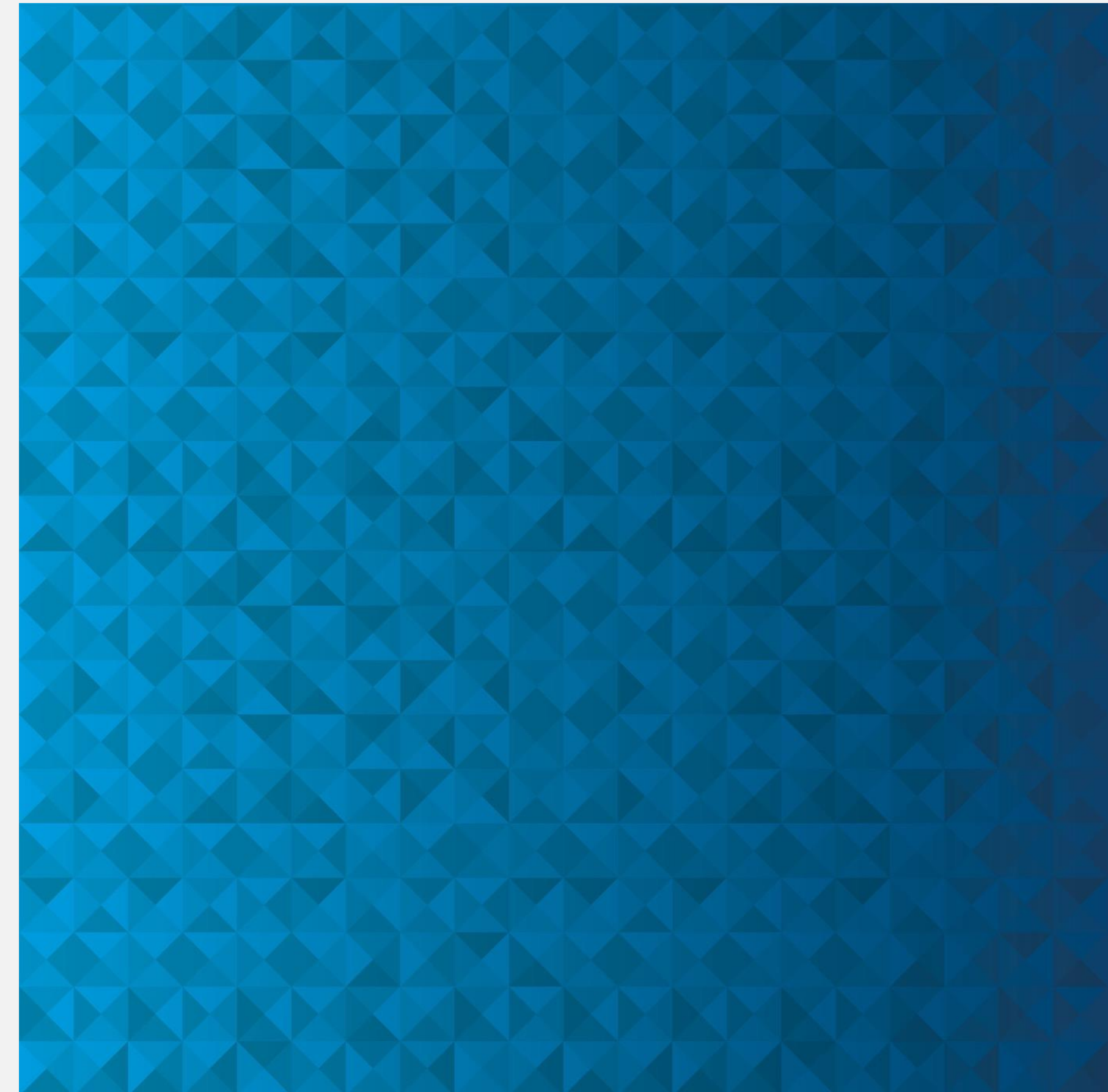
KAMER 1

KAMER 2

EEN UNIEK ECOSYSTEEM VAN SENSOREN DAT OUDEREN LANGER
VEILIG LAAT THUISWONEN EN HUN KINDEREN ALARMERINGEN,
OVERZICHT EN PEACE OF MIND BIEDT



Matchmaking...



DANK VOOR UW DEELNAME

Bij vragen: communicatie@topsector-ict.nl



STRATEGISCHE
AGENDA
2024 - 2027