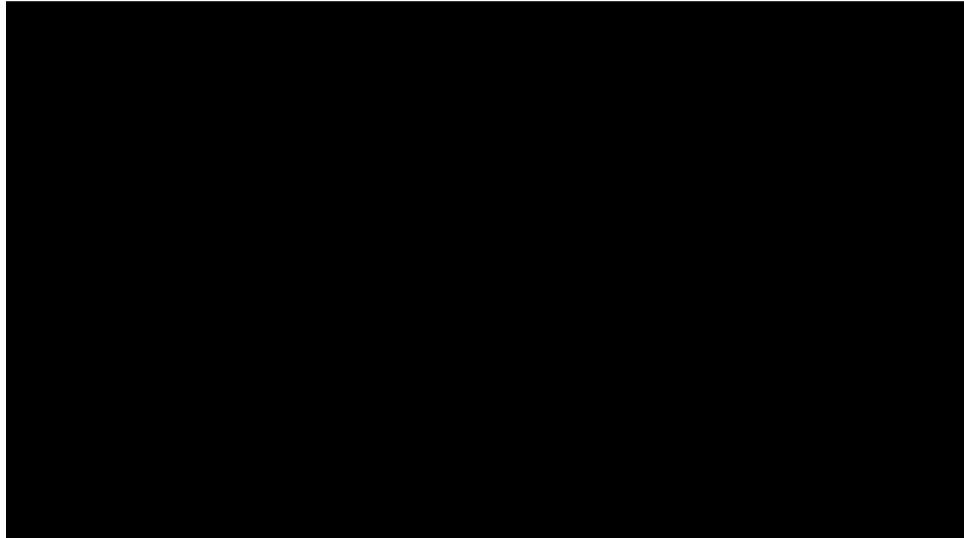




Welcome





**Custodial Institutions Agency
- DJI**
Ministry of Justice and Security

**Dutch Probation Service and
DJI**

Project "Mattie"
Always-on friend

Version: 0.3 ECP

Date: 17-11-2017, version 6/10



Rehabilitation



and



Resocialisation



Digital technologies are changing everything

[We know this, we feel this but where do we start?]

Artificial intelligence, Robotics, Electronics, Quantified Self, Speech Recognition, Mobile, Social Media, Big Data, Application Programming Interface, Virtual Reality, Self-Driving Vehicles, 3D Manufacturing, Graphene, DNA Sequencing, Exponential...

Joint forces: three parties



Ministry of Justice and Security - Direction Sanctions and Youth

The Ministry of Justice and Security is responsible for maintaining the rule of law in the Netherlands, so that people can live together in freedom, regardless of their **life-style** or views. The Ministry is working towards a **safer society** by giving people legal protection and, where necessary, intervening in their lives.

Custodial Institutions Agency

DJI contributes to a safer society by implementing custodial measures and prison sentences and by giving the people in its care the **opportunity to build up a socially acceptable life**.

Dutch Probation Service

Organization that promotes the **rehabilitation of detainees**.

There are three probation organizations in the Netherlands: the Dutch Probation Service (for detainees), Addiction probation and Salvation Army (Leger des Heils).

The start: a challenge !



Innovation prize May 2016

The jury has chosen 'Mattie' as the winner of the innovation workshop. The prototype will be presented during the Management Team reunion of DGSenB, and get the resources to develop the prototype.



The **Initial Assignment** for the Winning Team was:

Develop a working trial setup, a **wearable application** with at least three functions: **guidance, feedback and monitoring**. Connect **Mattie** with other on-going biofeedback initiatives. Project Mattie is a mission to develop an idea, a prototype.

The main idea is to answer the social needs with an innovative solution.



**What
do we want to achieve?
Why ? How ?**

Working together for better innovative
solutions for (ex)offenders

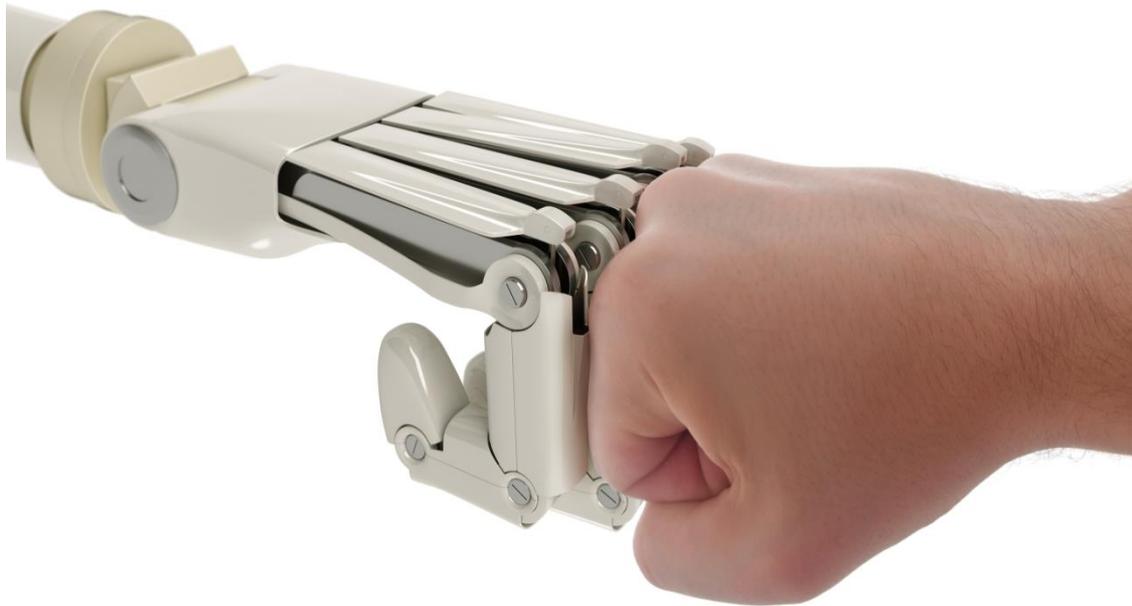
**More structure, less troubles =
better life**

Mattie: moonshot



Technological ' **friend** ' that supports you in **self-reliance** and in making the "right" choices when things could be difficult.

Use it **temporary or lifelong**, depending on **individual needs**.





Mattie promotes social reintegration of individuals by strengthening their self-reliance with the use of innovative technology.

- ✓ Organization vs. chaos
- ✓ It encourages the client to change behavior and turn it into making right choices
- ✓ Offers contact and information
- ✓ Better guidance by feedback on the spot
- ✓ Faster de-escalation by direct contact
- ✓ Access for both client and supervisor
- ✓ Easy to use and modern
- ✓ Customized, wearable...



Selected (initial) workflow and framework for the first trial of Mattie is the Penitentiary Program (PP)

The Penitentiary Program PP

is a joint program of DJI and RN starting during the last phase of detention: detainees under supervision can go home and start working/ studying, etc.

- Around 1400 programs are started per year.
- Guidance is labor intensive.
- 45% of potential participants do not participate.
- 15% of participants drop out early.
- Around 600 people has Electronic Control –EC.



Maslow's hierarchy of needs



Download from
Dreamstime.com

This watermarked comp image is for previewing purposes only.



ID 65741575

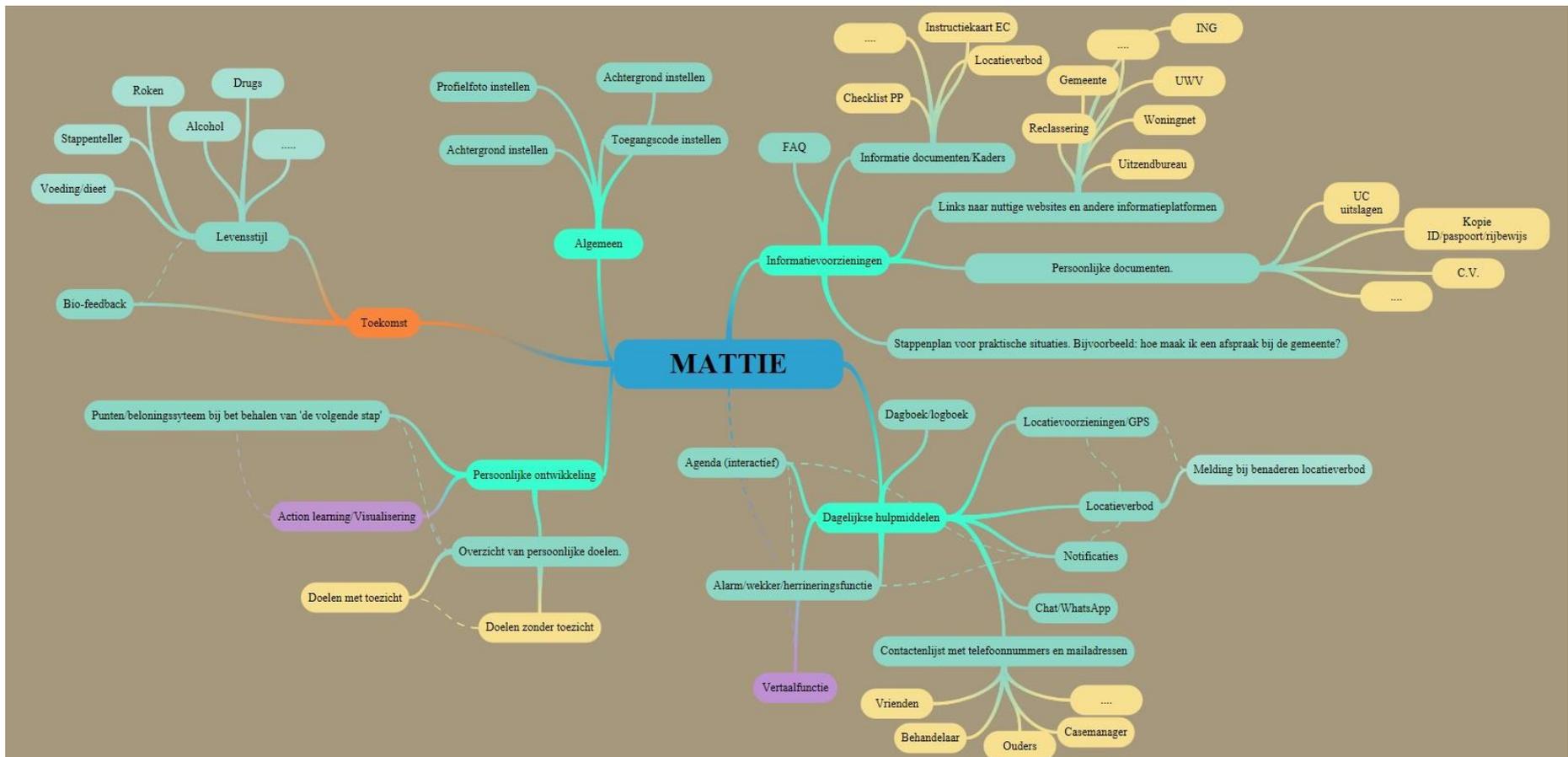
Pytyczek | Dreamstime.com

In Mattie's development, first focus on support for physiological needs: they are conditional on all other needs.

Field Research and Functionalities



Choose and prioritize functionality: desk search, field research: (ex)offenders and experts and mark search – Functionalities CLUSTERS





With Mattie you could have a reward system called **MPI**.

MPI stands for the Mattie performance index.

You get MPIs by doing the following.

- Daily assignments;
- Signal in your mood;
- Repeat the assignments;
- Respond to system notification

Moment-Based Rewards



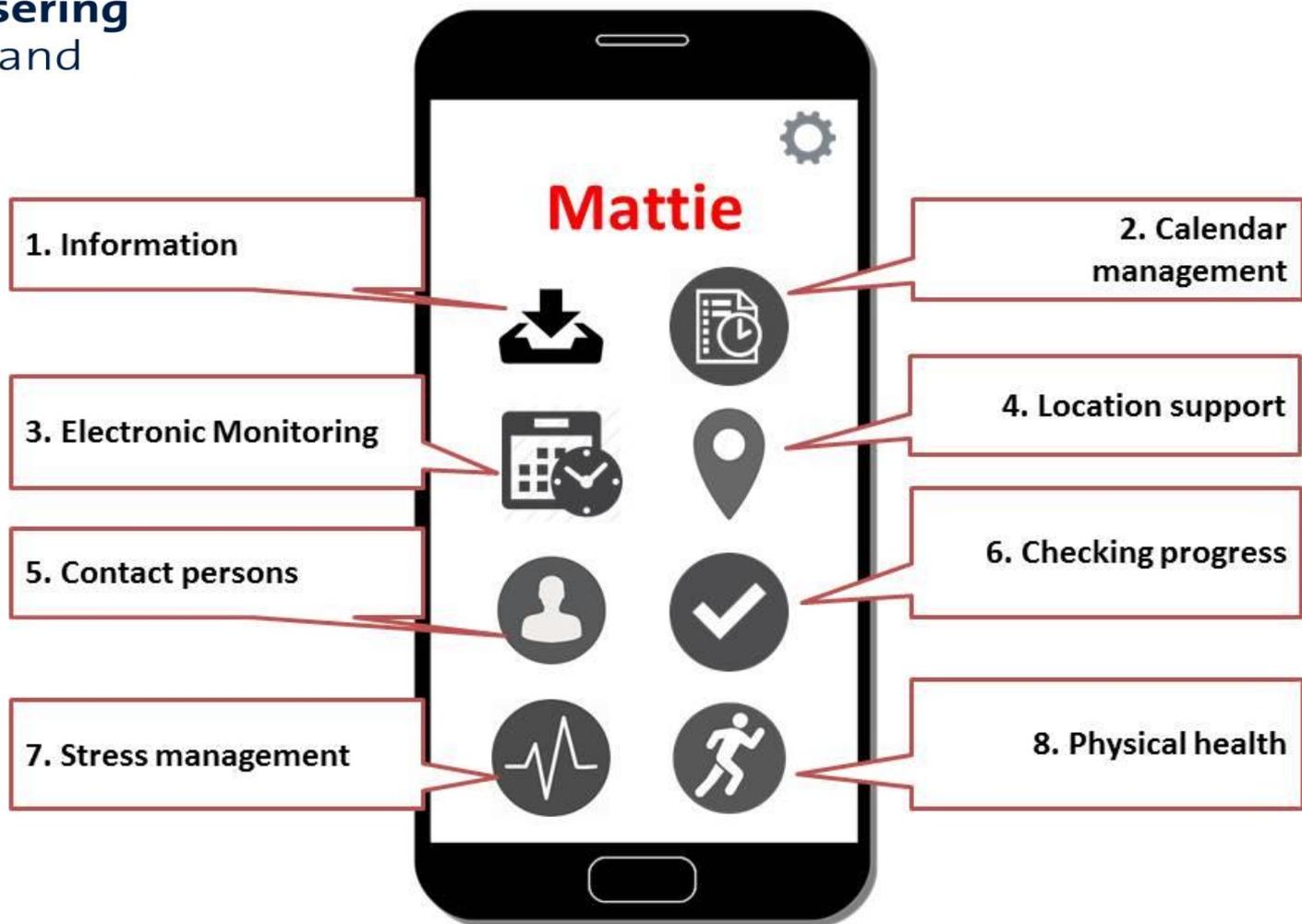
Points-Based Rewards



A possible Mock Up



Reclassering Nederland



Other solutions and initiatives in the market



- **England, App Socrates** Available on devices but also on the phone / tablet of the (ex) detainee. In April 2017 - pilots in 39 establishments in England and Wales.
- **Sweden, Gaia (ICPA)** The app is for now intended for the reclassification and not yet in a PI.
- **Ireland, Changing lives** app download in AppStore. This app is used for people under the supervision of the review.
- **The Netherlands, Fello** Health Insurance
- **USA, New York, MyNeON** prisoners collaborate chain partners for the detainees
- **United States, T Lab State Exams, Bank, Home**
- **England, Probation self-service portal, Direct2probationer Core,** reclassification
- **The Netherlands, Breider** (Luca, Lucertolis) opens
-

Where are we now?
Questions? Thanks !





Opdrachtgever

Els Tieman, corporate project management

Sponsor

Peter Hennephof (HDJI), sponsor

Monique Eijkenboom (DJI), sponsor

Stuurgroep (voorstel)

Soraya Beumer (RN)

Monique Schippers (DJI/GW)

Contact met DGSenB/DJS

Hanna Staarink, DGSenB DJS

Raoul Wanrooij, DGSenB DJS

Projectteam

Rivana Sonbeek, DJI,

Jeroen Solinger Reclassering Nederland

Stefania Rosanio (projectleider) DJI, s.rosanio@dji.minjus.nl, 0031 (0)6 55268371