

LECTORAAT TECHNOLOGIE VOOR GEZONDHEID

MAURICE MAGNÉE

**DE NOODZAAK VAN LOGISTIEKE ROBOTS**

# LECTORAAT TECHNOLOGIE VOOR GEZONDHEID



DE DUBBELSLAG VAN HET IXPERIUM HEALTH

# INNOVEREN EN PROFESSIONALISEREN IN ZORG, WELZIJN, SPORT EN ONDERWIJS



INSPIRATIE  
ERVAREN  
EXPERIMENT  
ONTMOETEN

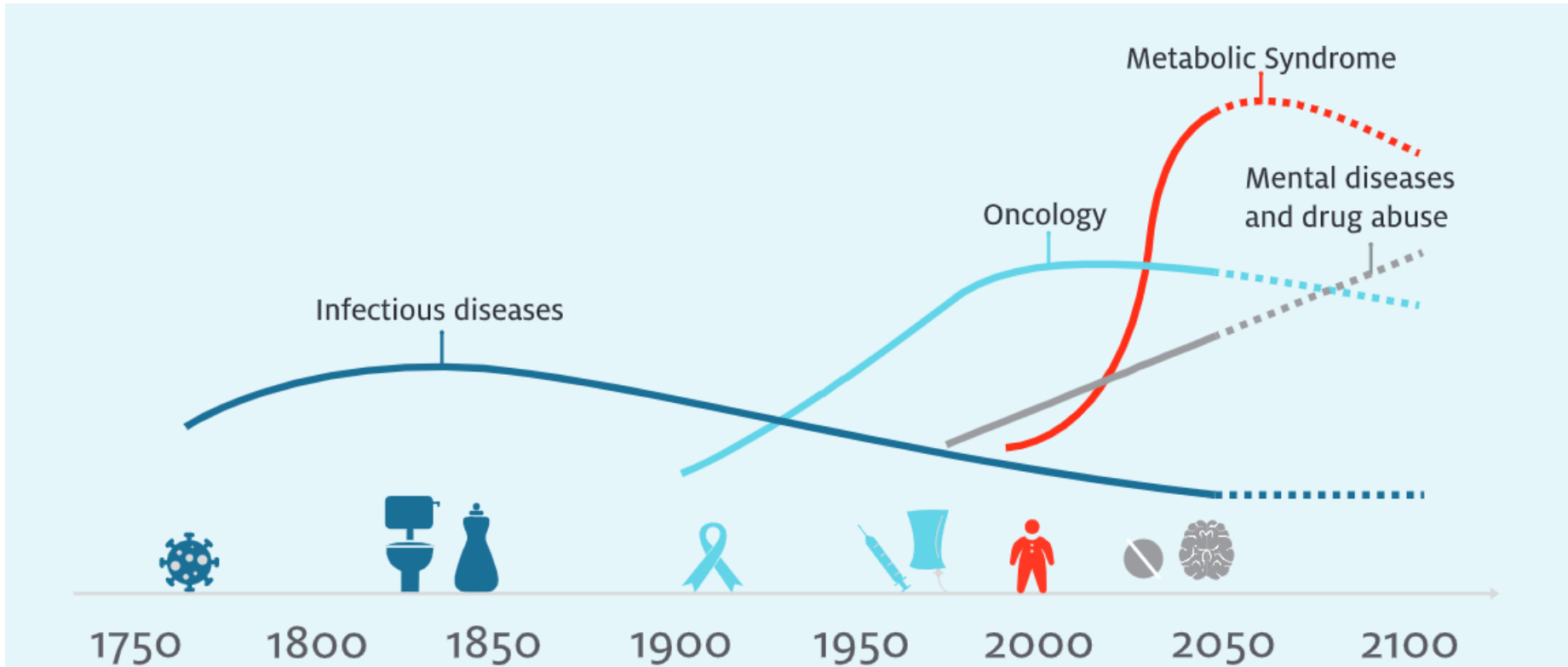




# DEMOGRAFISCHE ONTWIKKELINGEN



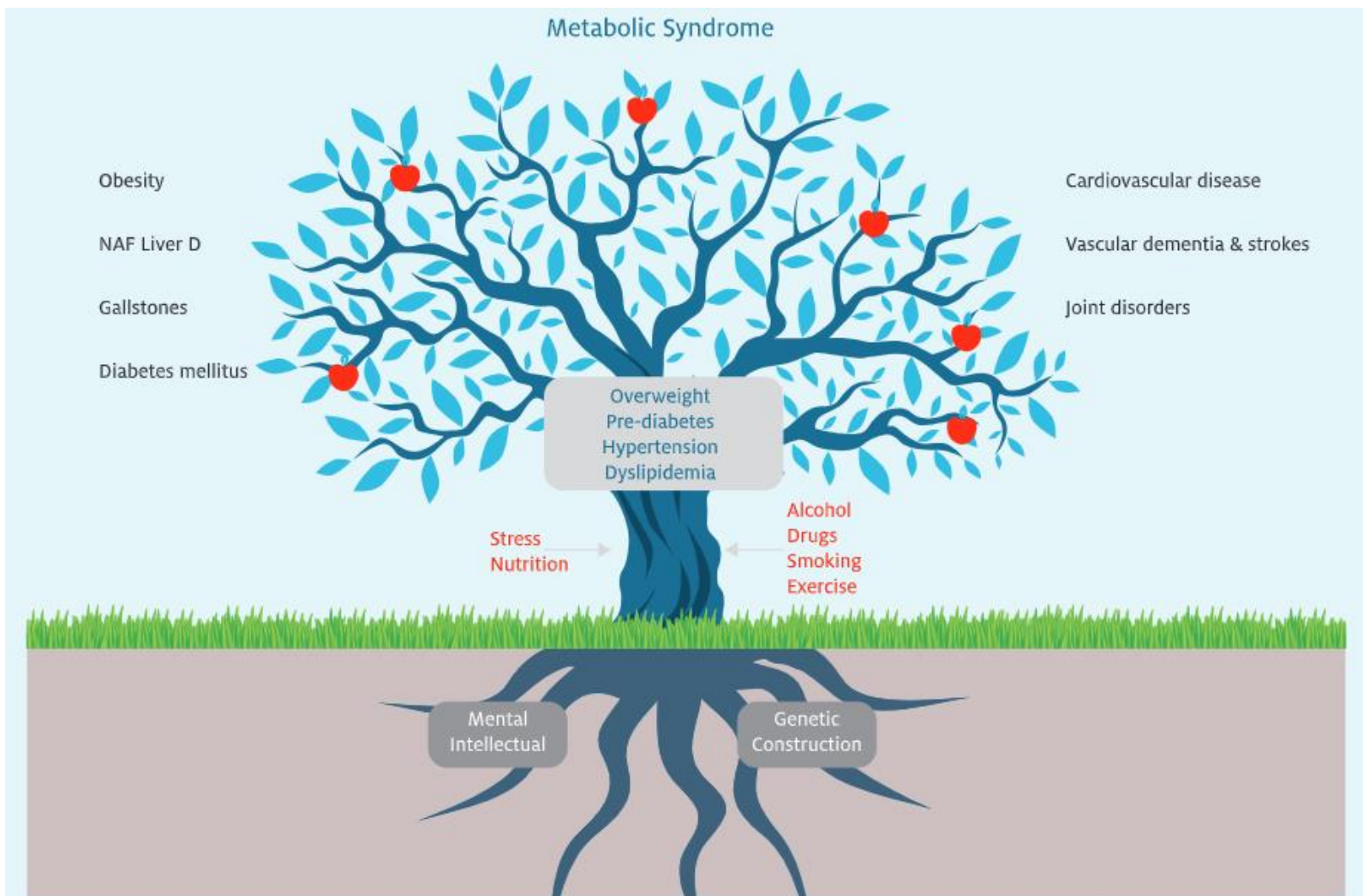
# ONTWIKKELINGEN IN VOLKSGEZONDHEID



**Figure 1.1** Rise and fall of diseases in the Industrial Age

*Predictions of the rise and fall of diseases are based on current epidemiological developments, under the assumption that no new preventive or disease-modifying strategies are being developed.*

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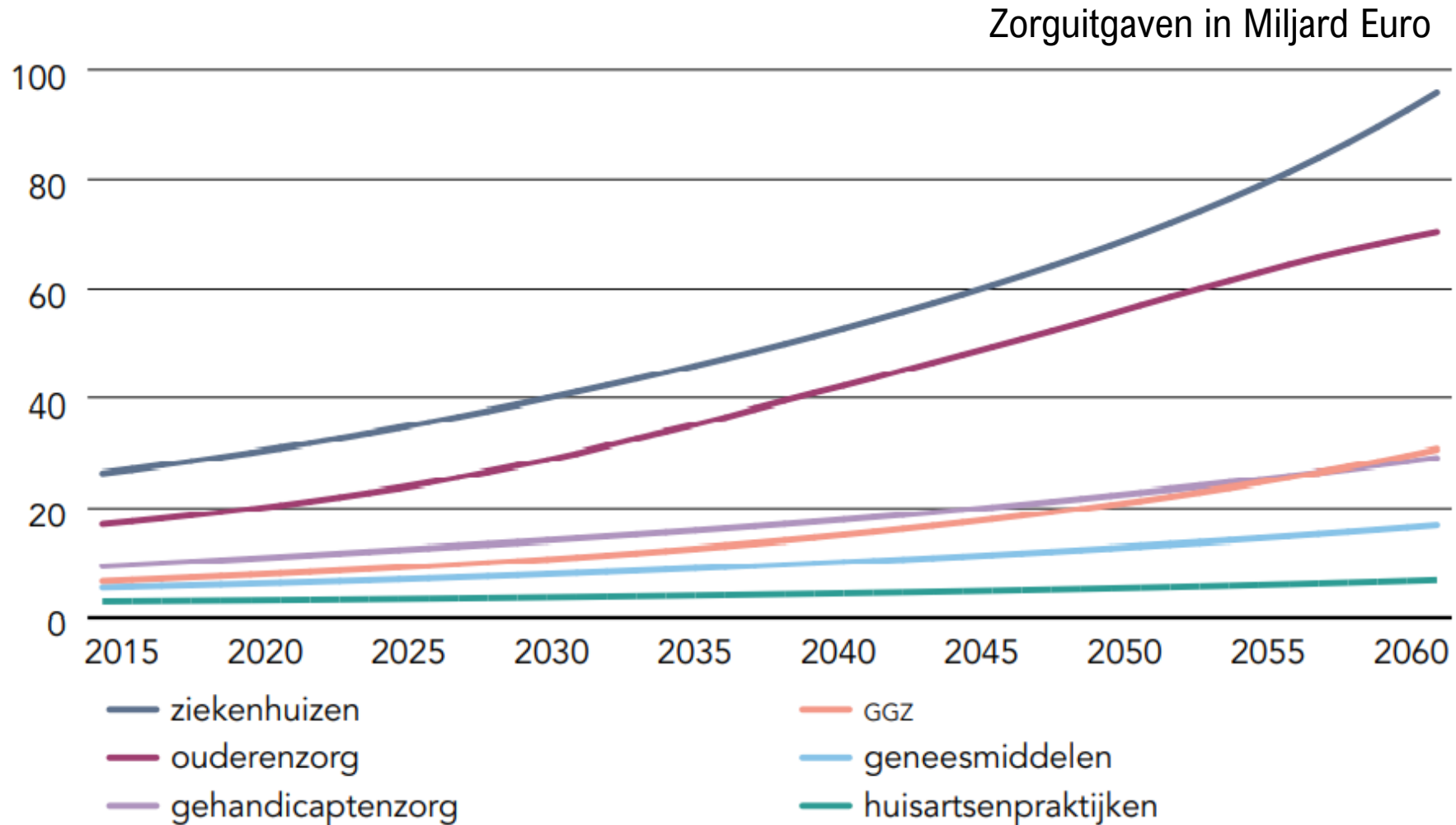


**Figure 2.2** The tree of life metaphor of the Metabolic Syndrome

*Tree of life metaphoric overview of the metabolic syndrome, with root factors, early life environmental influences, early adulthood preclinical conditions and lifestyle-related diseases leading to the metabolic syndrome.*

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# ECONOMISCHE ONTWIKKELINGEN

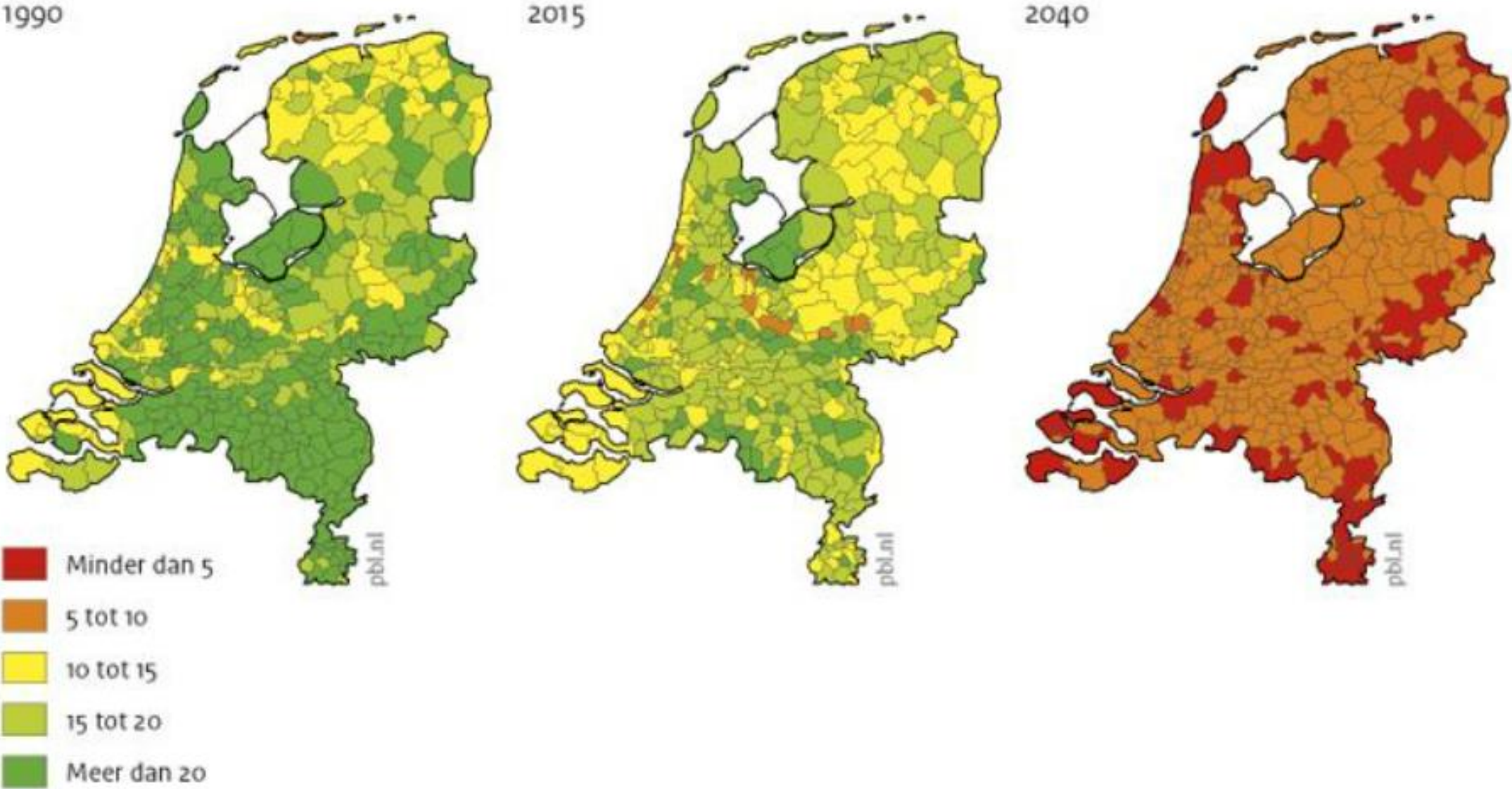


Bron: Vonk et al. 2020.



# SOCIAAL CULTURELE ONTWIKKELINGEN

## Oldest old support ratio

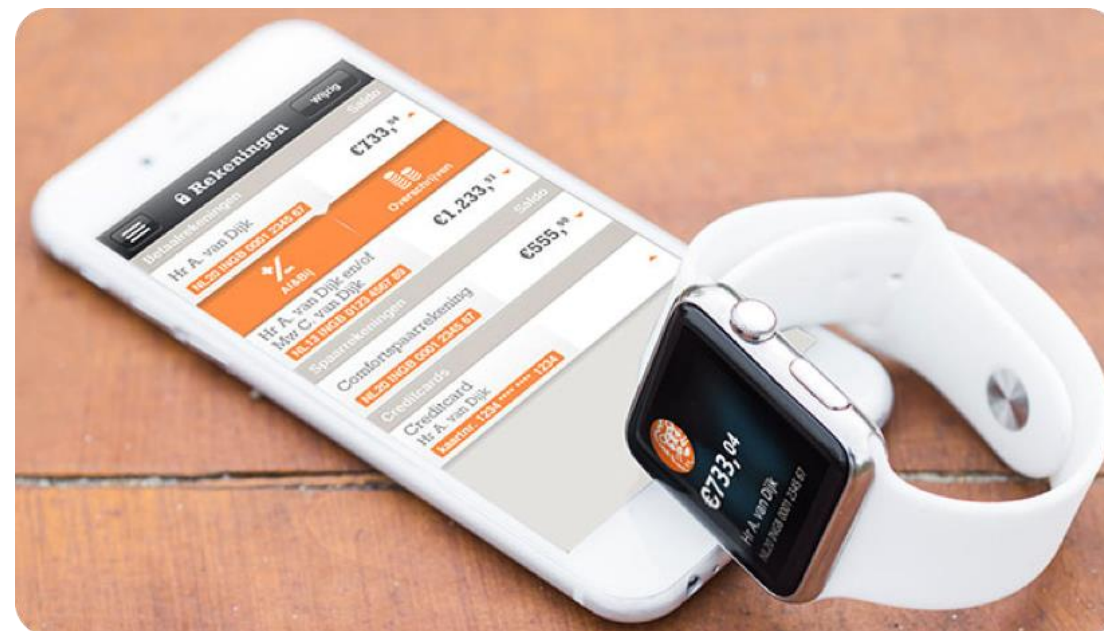


ALM

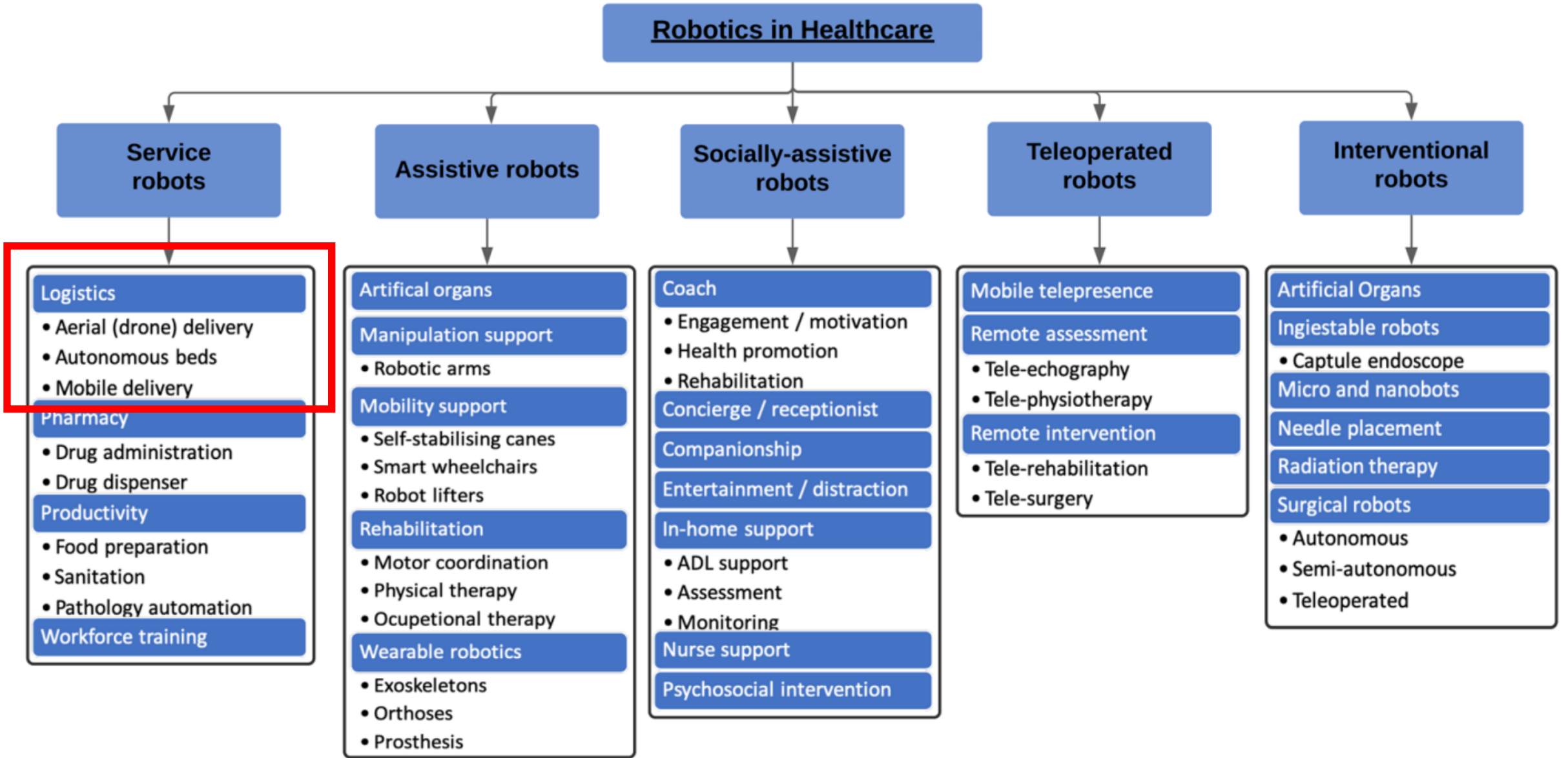
# TECHNOLOGISCHE ONTWIKKELINGEN



# EEN ECOSYSTEEM BENADERING VOOR INNOVATIE



NT + OO = DOO



# WAAROM LOGISTIEKE ROBOTS

- Verlichting fysieke en repetitieve taken (Verlichten werkdruk en behoud van medewerkers)
- Deels overnemen arbeidsintensieve processen (Kostenbesparing)
- Continuïteit van zorg (24/7)
- Nauwkeurig gestandaardiseerde processen uitvoeren (Efficiency)
- Veiligheid en hygiëne (voorbeeld Covid-19)

# IMPLEMENTATIE = DÉIMPLEMENTATIE



## Lamplighter

Individuals responsible for lighting and extinguishing street lamps



## Switchboard Operator

These operators manually connected telephone calls by plugging and unplugging phone lines



## Knocker-Up

A person employed to wake up workers by knocking on their windows with a long stick or a pea shooter.

# 2025 Top 10 Strategic Technology Trends



## AI imperatives and risks

- Agentic AI
- AI Governance Platforms
- Disinformation Security



## New frontiers of computing

- Post-Quantum Cryptography
- Ambient Invisible Intelligence
- Energy-Efficient Computing
- Hybrid Computing



## Human-machine synergy

- Spatial Computing
- Polyfunctional Robots
- Neurological Enhancement

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**DANK JULLIE WEL!**