

A person in a white lab coat is shown from the back, interacting with a digital interface. The interface consists of a grid of hexagonal icons, each containing a different symbol: a person, a heart with a pulse line, a DNA helix, a microscope, and a globe. The person's hands are raised, touching the icons. The background is a dark blue gradient with a faint world map outline.

THE TECHMED EVENT

SHAPING A HEALTHY FUTURE

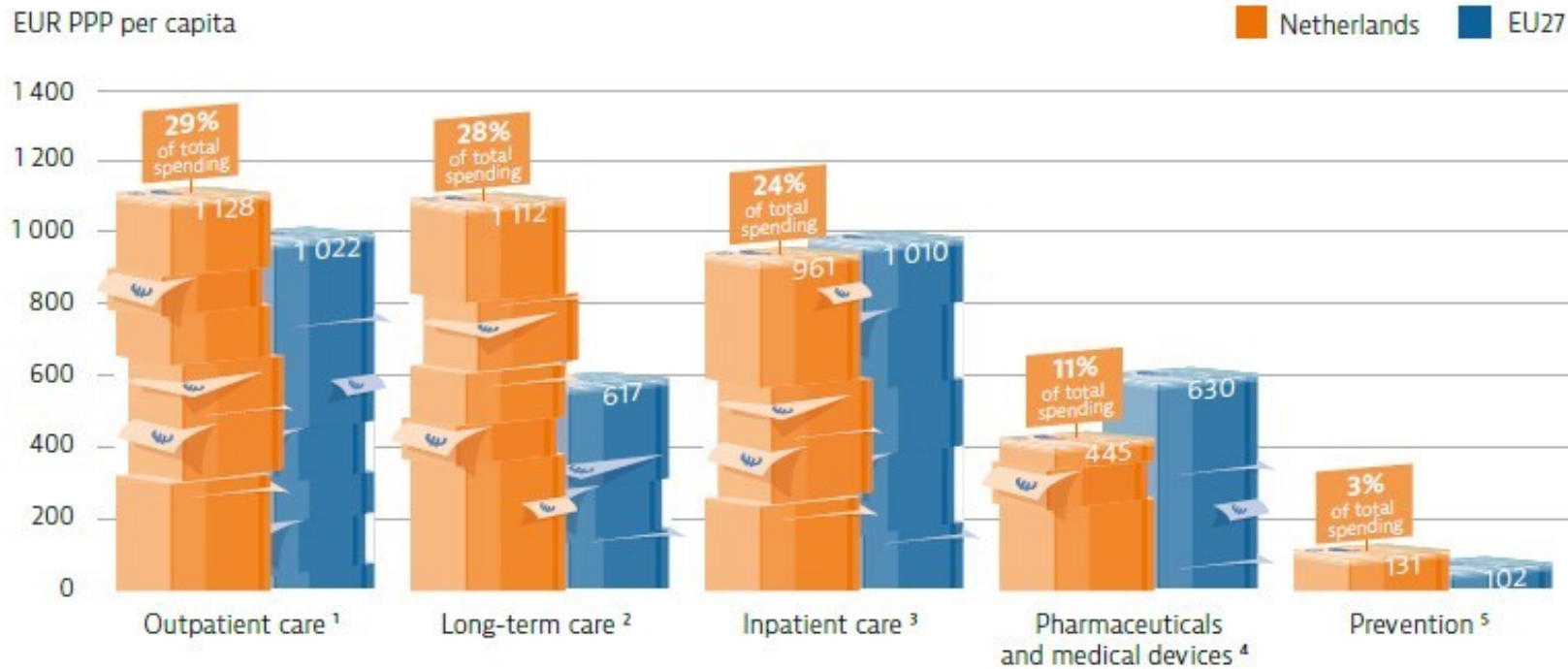
13:15-14:30 | **STAFFING CRISIS: TOWARDS SUSTAINABLE HEALTHCARE DELIVERY** |
DR. CAROLINE FISCHER and DR.IR. GRÉANNE LEEFTINK

DISCLOSURE

None of the speakers in this session has conflicts of interest to disclose.

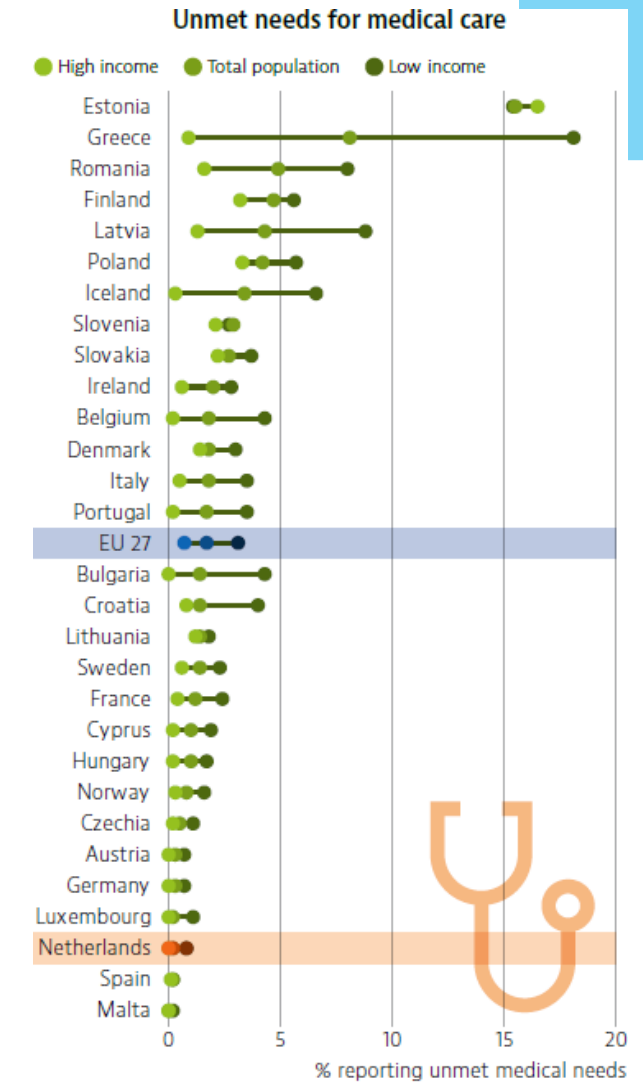


THE DUTCH HEALTHCARE SYSTEM



Note: The cost of health system administration is not included. 1. Includes home care and ancillary services (e.g. patient transportation); 2. Includes only the health component; 3. Includes curative-rehabilitative care in hospital and other settings; 4. Includes only the outpatient market; 5. Includes only spending for organised prevention programmes. The EU average is weighted.

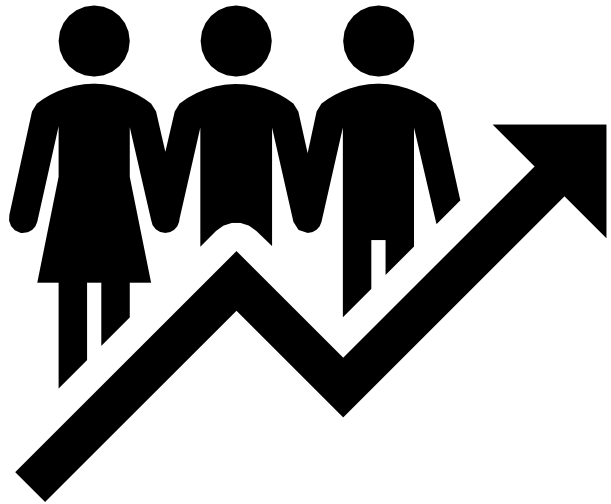
Sources: OECD Health Statistics 2021, Eurostat Database (data refer to 2019).



Note: Data refer to unmet needs for a medical examination or treatment due to costs, distance to travel or waiting times. Caution is required in comparing the data across countries as there are some variations in the survey instrument used.

Source: Eurostat Database, based on EU-SILC (data refer to 2019, except Iceland 2018)

PROFESSIONALS IN THE DUTCH HEALTHCARE SYSTEM



Nursing is attractive in the Netherlands (more competencies, more autonomy and authority)



Ratio of doctors (3.4 to 3.7 per 1.000 citizens) and nurses (8.7 to 10.7 per 1.000 citizens) increased in last ten years



Graduation rates of doctors rose by 26%, of nurses by 60% in last ten years



PROFESSIONALS IN THE DUTCH HEALTHCARE SYSTEM



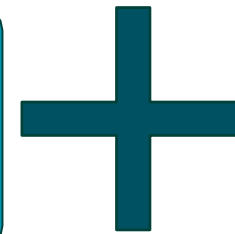
growth in healthcare personnel slows down



estimated shortage of about 56.000 healthcare professionals by end of 2023



estimated shortage of healthcare professionals increases to >150.000 in next ten years



Ageing population



3,6 million

Increasing chronic disease burden



10 million

Rising healthcare costs



>126 milliard



THT – Technology in Healthcare Transformations



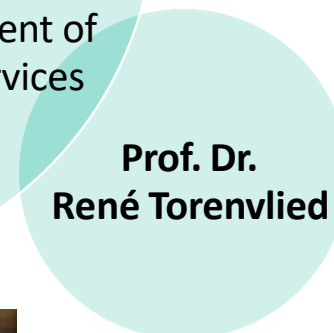
**Prof. Dr.
Carine Doggen**



Dr. Mireille Post-Hubers
Organisational change scholar
Implementing organisational
change



**Dr. Caroline
Fischer**
Public
administration
scholar
Management of
public services



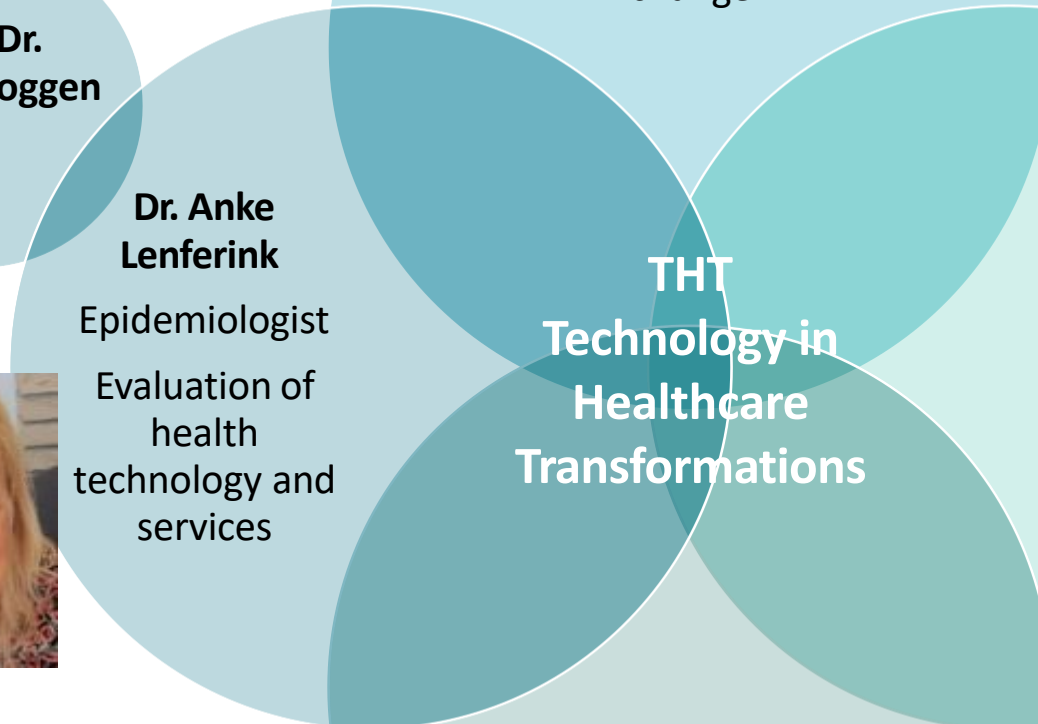
**Prof. Dr.
René Torenvlied**



Dr.ir. Gréanne Leeftink
Industrial Engineer
Healthcare process
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**Prof. Dr.
Erwin Hans**



**Dr. Anke
Lenferink**
Epidemiologist
Evaluation of
health
technology and
services

THE TECHMED EVENT
STAFFING CRISIS: TRANSITION TOWARDS
SUSTAINABLE HEALTHCARE DELIVERY



THT – Technology in Healthcare Transformations



Making **technology**-based developments in **healthcare transformations** **efficient, effective, and sustainable**

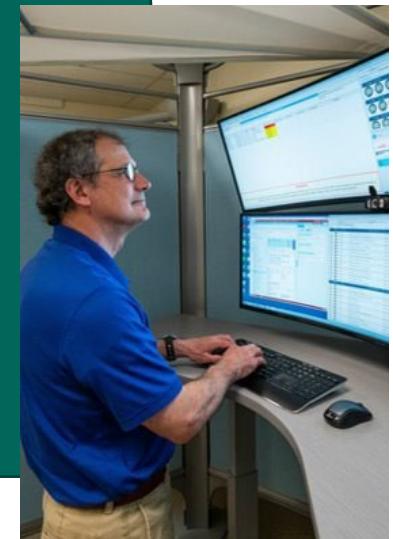


Multi-disciplinary research collaboration:

Reliable, valid,
(cost-) effective
healthcare
technologies

Personalised
yet holistic
and efficient healthcare
system

Sustainably embedded
in institutional
and societal contexts



SUSTAINABLE HEALTHCARE DELIVERY A PEOPLE- CENTERED APPROACH

Having the **right number** of **healthcare professionals** with the **right skills**, in the **right place**, at the **right time**,
to provide healthcare services to the right people



Virtual care delivery (Anke Lenferink, University of Twente)



Personnel retention and empowerment (Claudia de Swart & Maaïke Blom, Rijnstate Hospital Arnhem)



Flexible deployment (Manon Bruens, Acute Zorg Euregio)



Optimal staffing (Aleida Braaksma, University of Twente)