Digital health

Two Clusters

Health

High Tech

1. Drugs Discovery & Development
2. Digital Health
3. Healthy Brain

4. Chip Integration
5. RF Technology

foto: © https://en.visitnijmegen.com

Why Digital health?

Healthcare is under pressure:
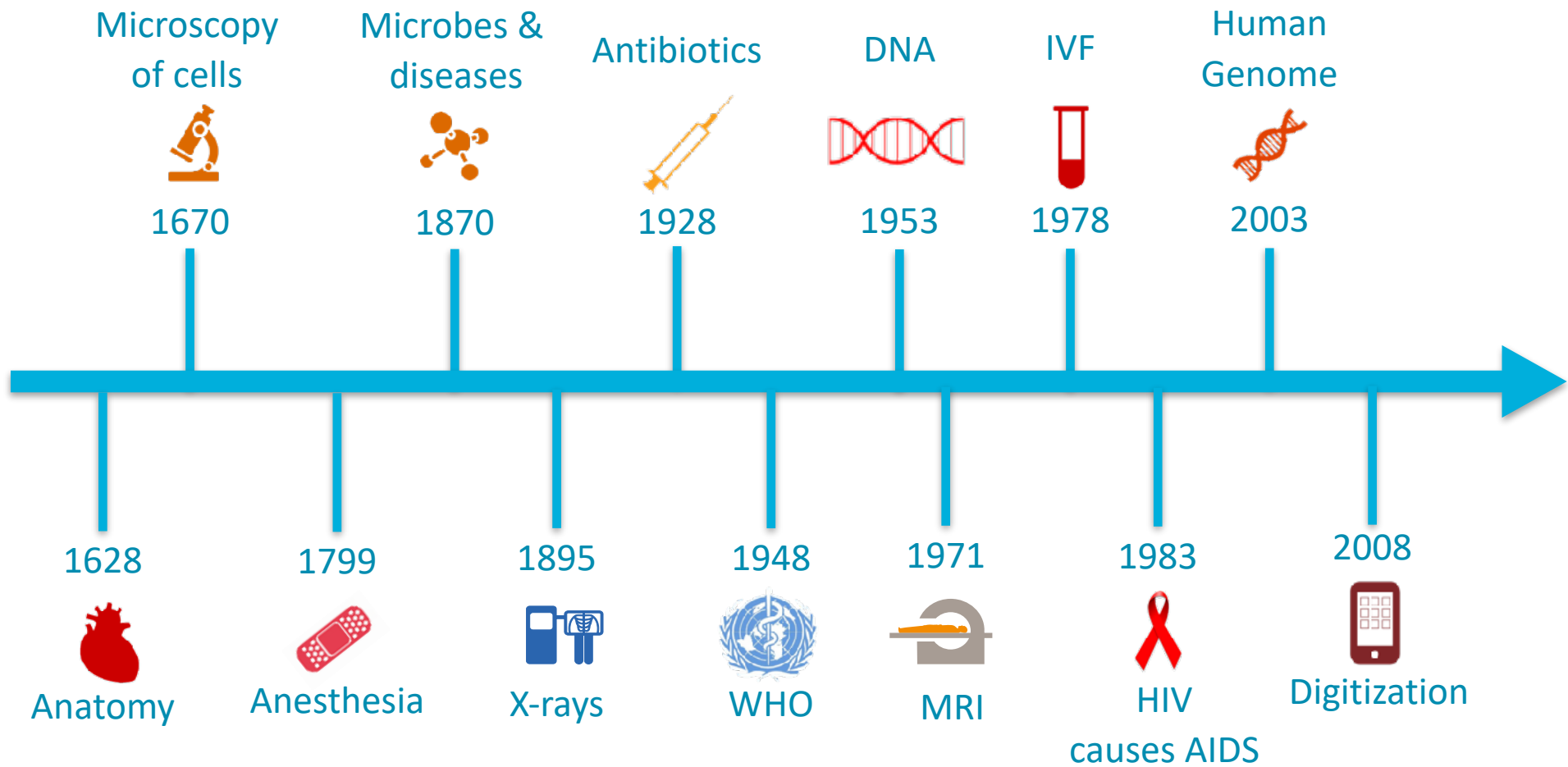Aging population, multi-morbidity, cost and personnel

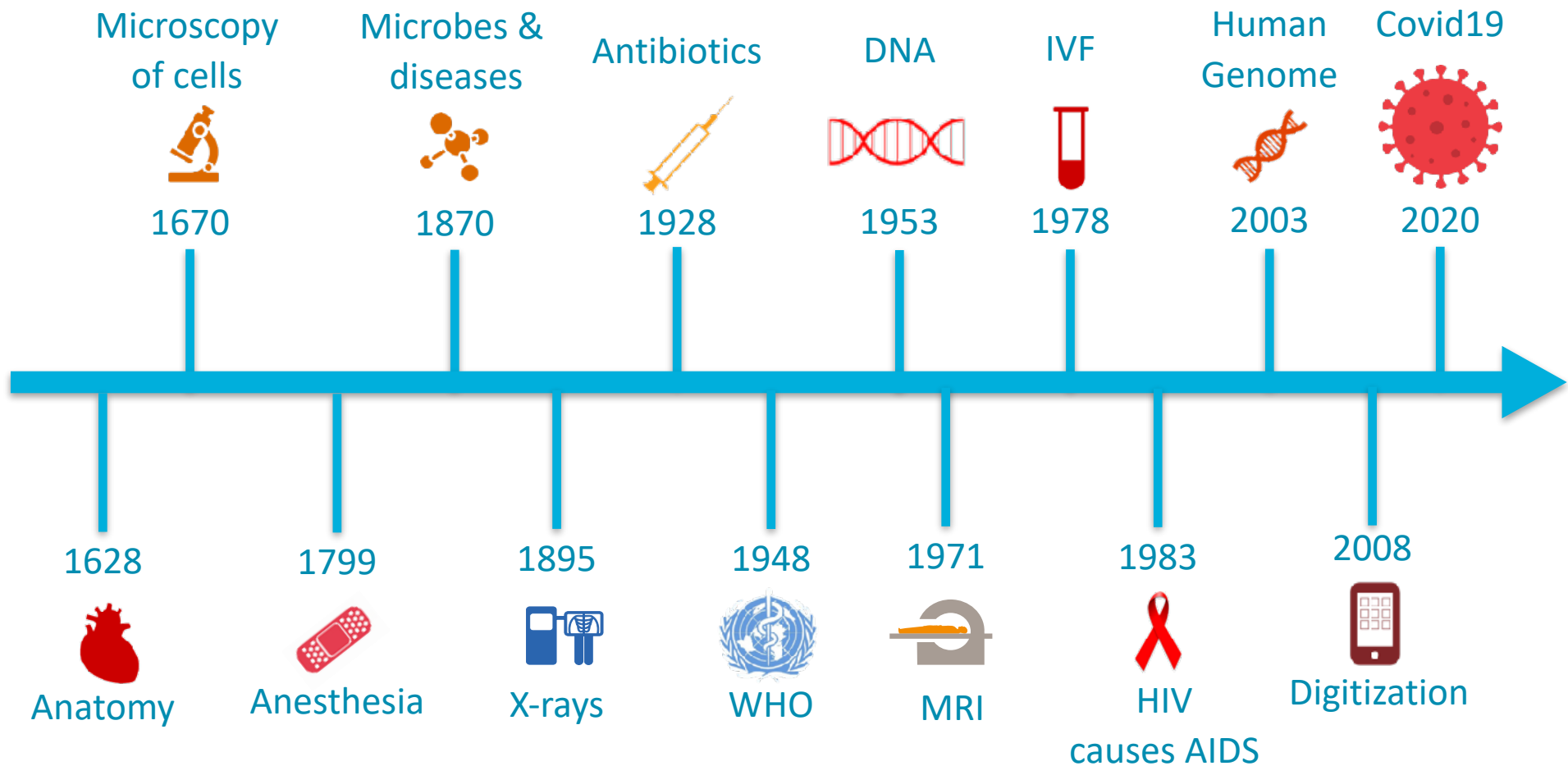Major societal challenge for Nijmegen, NL and EU

Digital Health has the potential to improve quality and efficiency of health(care) & welfare

(Zorginnovatieagenda 2022, NL)

Timeline top row:
- Microscopy of cells — 1670
- Microbes & diseases — 1870
- Antibiotics — 1928
- DNA — 1953
- IVF — 1978
- Human Genome — 2003

Timeline bottom row:
- 1628 — Anatomy
- 1799 — Anesthesia
- 1895 — X-rays
- 1948 — WHO
- 1971 — MRI
- 1983 — HIV causes AIDS
- 2008 — Digitization

Timeline of medical milestones:

- Microscopy of cells — 1670
- Microbes & diseases — 1870
- Antibiotics — 1928
- DNA — 1953
- IVF — 1978
- Human Genome — 2003
- Covid19 — 2020

- 1628 — Anatomy
- 1799 — Anesthesia
- 1895 — X-rays
- 1948 — WHO
- 1971 — MRI
- 1983 — HIV causes AIDS
- 2008 — Digitization

Accelerated digitization up to 7 years

Mc Kinsey & Company, 2021

Video consultations

Remote monitoring

Apps

Wearable devices

Audio recordings

Some Facts

Large health sector (+/-600 institutions)

1/4 people have job that's related to healthcare

Human Capital Digital Health
(Radboudumc, RU, HAN, ROC etc.)

Innovative Digital Health companies (+/-50)

20-25% Startups related to Health / Healthcare

Participation 'Nijmegenaren' and patients

Our Digital Health ecosystem

Our Digital Health ecosystem

Talent

Co-create

Validate

To market

Capital

ICAIs

Radboud AI

Hogeschool van Arnhem en Nijmegen

Radboudumc
CWZ
ROC
Practoraat
Tech Adoptie

Radboud Universiteit

Facilities

Support

Launching Customers

Field Labs
Living Labs
Innovation Spaces

Briskr

Health Valley

EU

NWO

RVO

Oost NL

Banks

Private investors

Venture Capital

Provincie Gelderland

Gemeente Nijmegen

Focus

Tele-health
Virtual hospital or tele-monitoring of vital signs

Self-monitoring and lifestyle
Smart and wearable technology such as watches, patches for self-monitoring and lifestyle
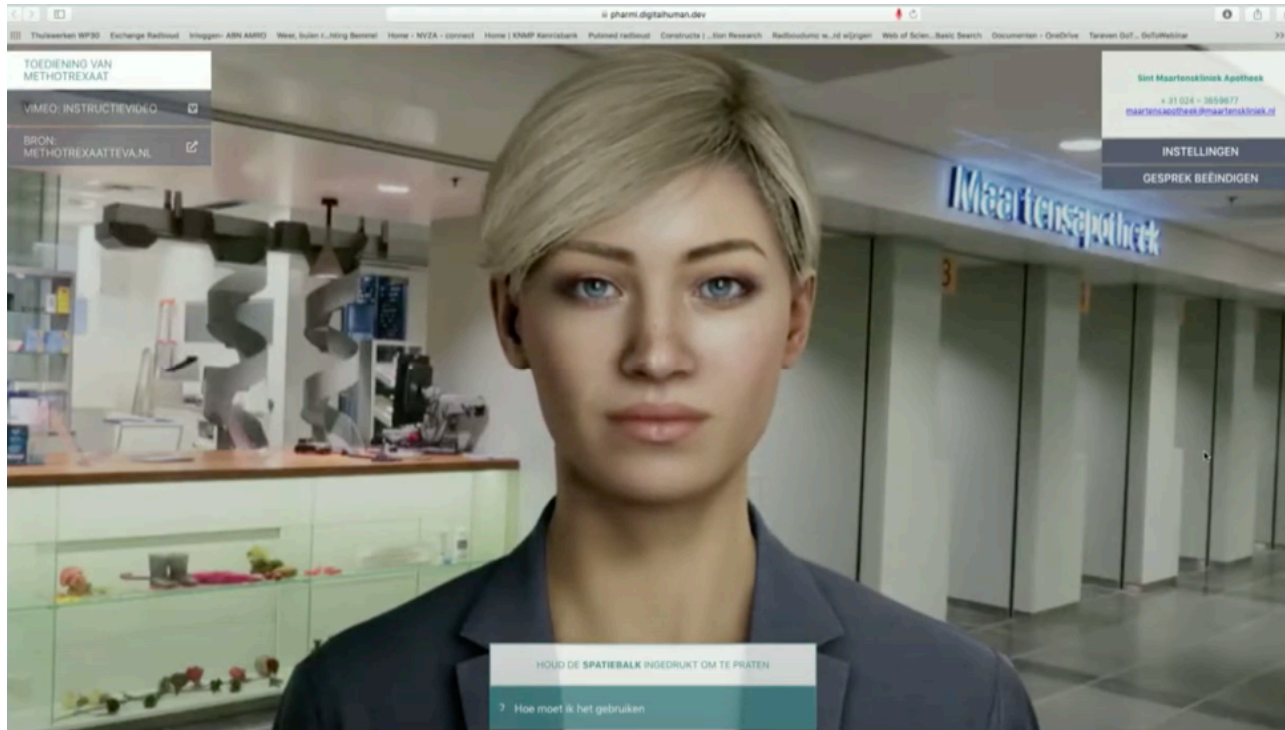
Wellness and education
VR and AR for optimization of wellness, pain reduction or eduction

Early detection
AI data analysis to improve health outcomes including image analysis and
detection of clinical deterioration or recovery
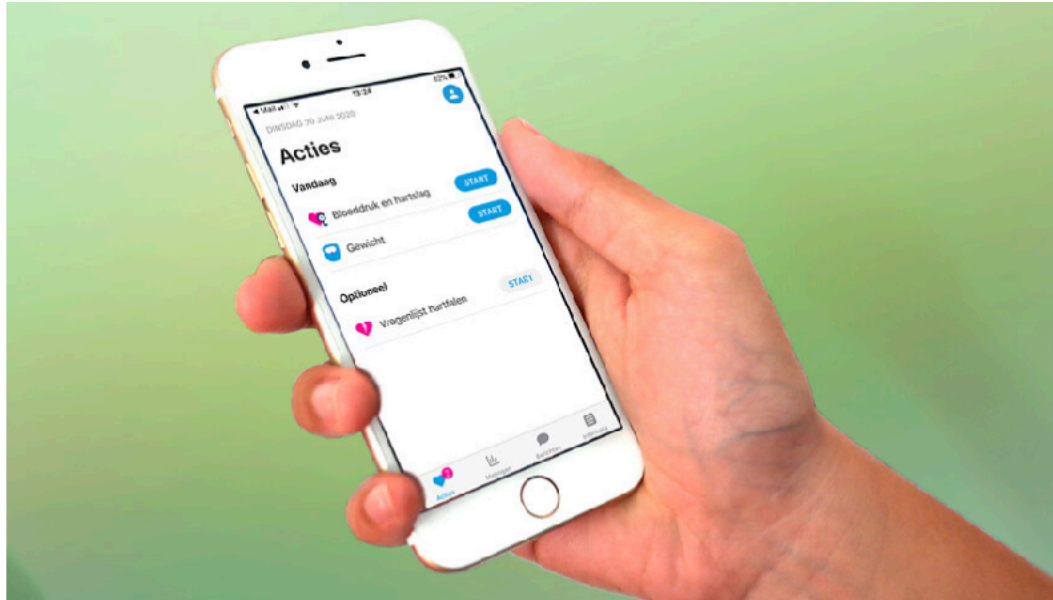
Pharmi: digital pharmacist

AI

ARNE

Thira Lab

SCREENPOINT Medical

DEEPDEE

Innovation Center for Artificial Intelligence

CWZ "Thuis app" for Covid recovery

Nijmegen as Digital Health Hub?

In Nijmegen we have all partners available to develop digital health solutions in co-creation, validate them in the real world and market them in NL and EU. By doing so we might:

Optimize health(care) and welfare

Strengthen economic power of our region

Thanks!

Tom van de Belt