

COMMERCIALISATION GATEWAY

Space for Business | Business for Space

Digital Health Trends and Opportunities for EO Commercialisation

Living Planet Symposium 2022

The ESA Commercialisation Gateway

Access to the market
intelligence for ESA programmes,
Investors and ESA
Commercialisation Network

A 'one-stop shop' service for all commercial
opportunities, creating links between new
and emerging business sectors and ESA
capabilities



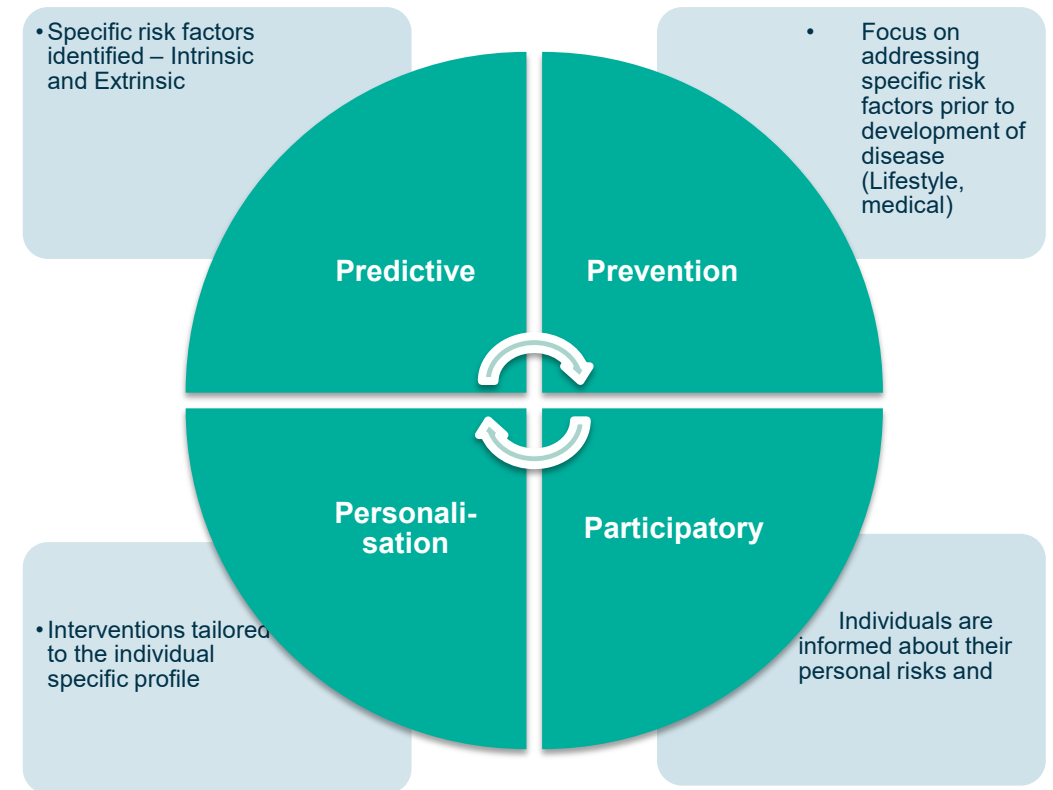
Raise awareness and enable
the use of space infrastructure
and data for applications and
services in Space and on Earth

Help newcomers find the path to
ESA programmatic
opportunities

Provide an easy access to **ESA Commercialisation network** of resources:
ESA BICs, Φ _LabNET, Accelerators, Investors, Patents, Transfer of technology,
SME initiatives, Business and technical expertise, End-users

Digital Health and The “P4” Revolution

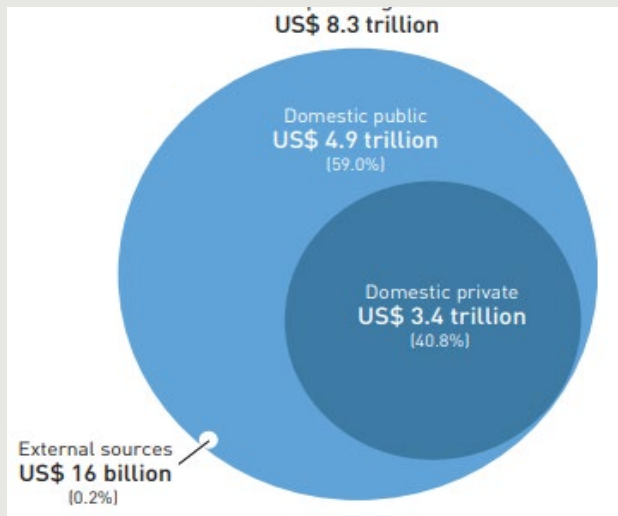
- Personalisation - Tailor made therapies
- Prevention - digital twins of patients, groups or populations
- Success factors of technologies rely on connectivity, data platforms and user experience
- Enabling technologies on the other hand are sensors, applications, wearables, mobile devices, robotics, AR/VR, and 5G
- Largest sector in terms of medical technology market is **in vitro diagnostics, cardiology and diagnostic imaging**
- COVID-19 accelerating the digitalization of the sector



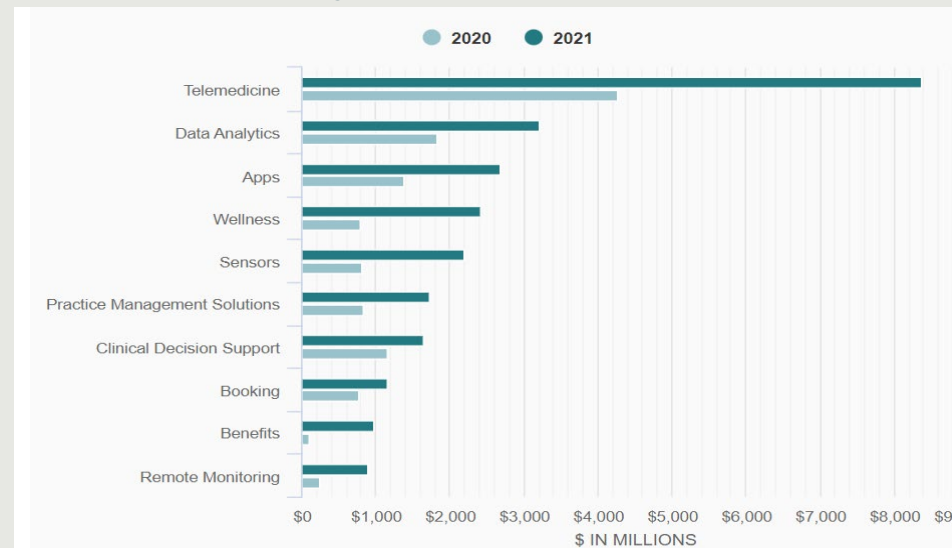
Health and Digital Spending Increasing

- Upward trend in global health care spending, USD 8.3 trillion between 2000 and 2020
- Digital Health companies continue to captivate venture capitalist funding despite regulatory barriers regarding national reimbursements schemes
- Since 2010 USD 89 bn VC funding went into health of which 30.7 bn invested in 2021
- Telemedicine USD 9.5 bn followed by data analytics 3.2 bn and mHealth 2.6 bn

Global Spending on Health



Top VC Funded Digital Health Categories in 2020 - 2021 in USDm

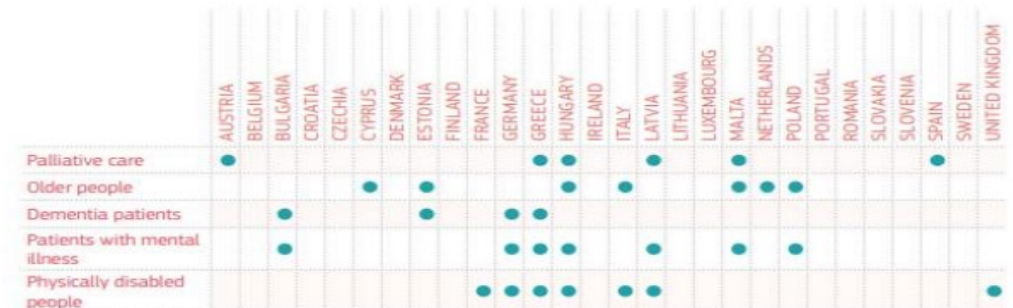
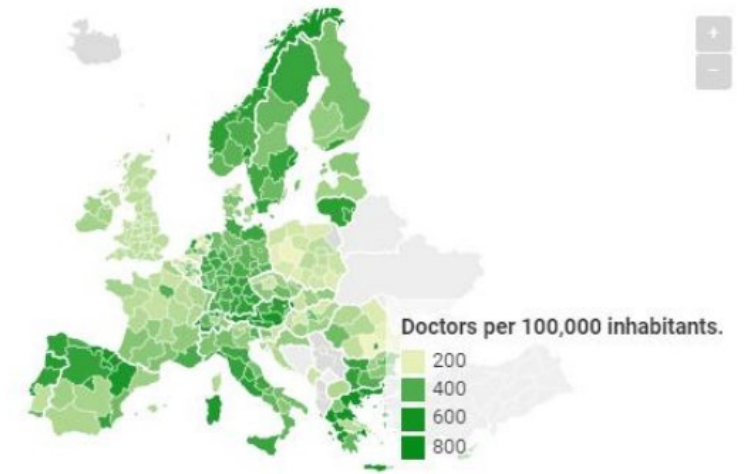


European Unicorns



Zoom on European Market

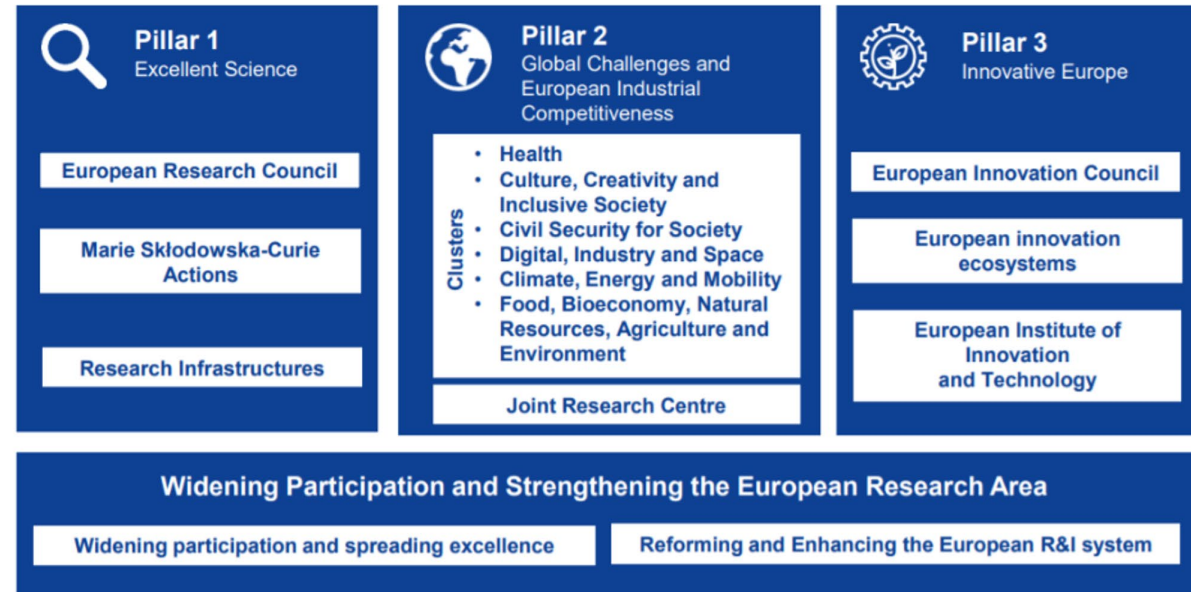
- Ageing population and rising prevalence of chronic diseases
- These developments and COVID-19 are putting a rising demand on healthcare systems across Europe
- Shift to preventative, primary and integrated care is needed for future effective and resilient health systems
- Falling high skilled medical practitioners causing ‘medical deserts’
- Problems with timely access medical services exist
- Air quality across Europe still exceeding WHO guidelines and causing between 168,000 and 346,000 premature deaths
- More frequent extreme weather events due to climate change
- More frequent heatwaves and the risk of vector, waterborne diseases



Call for A Strengthened European Policy Lead

New initiatives on European level through

- European Pharmaceutical Strategy
- New EU4Health programme (2021 – 2027) receiving significant increase in funding (Chafea)
- Call for a European Health Data Space
- Strengthening of European agencies such as EMA & ECDC
- EC making EUR 7.7bn for health and EUR 15bn for digital technologies available



Emerging Platforms And Players On All Levels

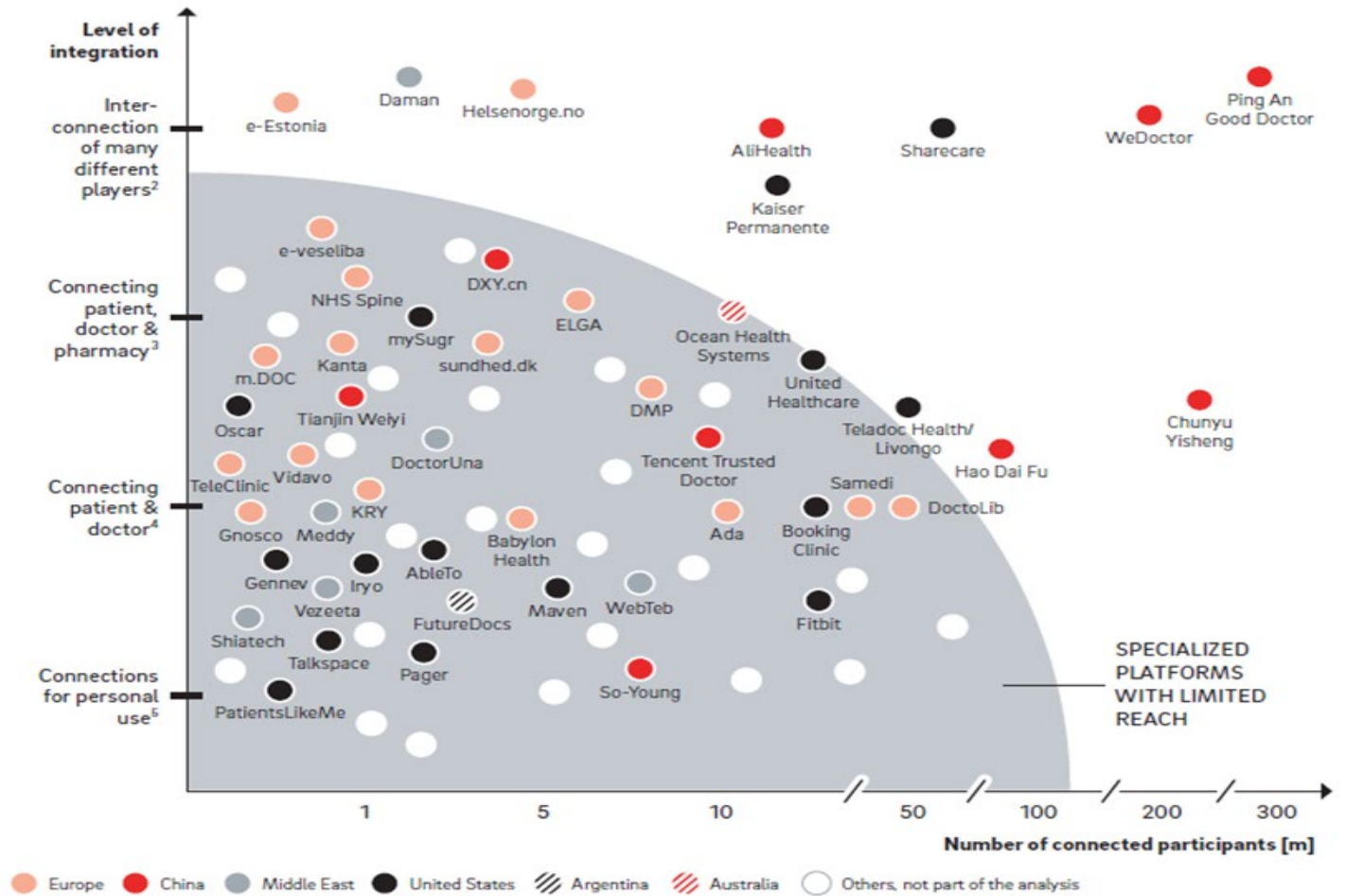
Big Data

AI

mHealth

Applications

Sensors



- Increase in lifestyle related diseases, partially triggered by environmental factors
- Globalisation and mobility risk factors for CDs and increase in diseases from zoonotic agents
- Personalisation and preventative care driving digital health provision
- Increase in health expenditures and VC's investing in Digital Health
- Ageing population, chronic diseases and Covid-19 straining European healthcare systems
- European initiatives encouraging a more coordinated approach to health
- Emergence of digital platforms driving uptake of innovative solutions

THANK YOU
FOR YOUR ATTENTION

PLEASE VISIT: commercialisation.esa.int