



FUTURE OF HEALTHCARE

How research & innovation
are changing the game



Why fox healthcare matters?

Make it ...

*accessible to
the inaccessible*



>50%

of the global population are still not covered by essential health services, a joint report from the World Health Organization and the World Bank Group has found.

*affordable & shift from
luxury to necessity*



1.3

billion people still pushed into extreme poverty because of health expenses. Unaffordable healthcare is a threat to global advances in health, as low-income families may opt to forgo treatment to pay for necessities like food and shelter

to reshape the demand by
improving *productivity*



\$1.6

trillion can be saved globally each year through virtual consultations and other digital services. Demand need to be addressed with greater efficiency and innovation

*To contribute to the goal of
building a sustainable
society*



4.4%

of global GHG emissions is from Lifesciences and Healthcare industry



Challenges faced by the industry



Lack of Patient Empowerment

Currently patients are not empowered with information and resources that can help them to make informed decisions. Empowerment can create a culture of patient-centered care which leads to improve overall health outcomes and patient experience



Healthcare is Episodic & Reactionary

Current approach leads to fragmented and uncoordinated care causing inefficiencies in patient management. It neglects the importance of early detection and prevention of chronic diseases which are essential for improving long-term health outcomes



Regulatory and Compliance

The industry operates in highly regulated environments, with different rules and regulations in each country. This complexity can slow down the development, approval, and distribution of new treatments and medications



Symptomatic Treatment

Many chronic diseases currently lack cures and are managed primarily through symptomatic treatment without addressing the underlying cause. This does not halt disease progression leading to long-term health complications



« Our convictions »

Personalized and Precision Medicine



The future of healthcare will see a significant shift towards precision medicine, where treatments and preventive measures are customized based on an individual's genetic profile. This will revolutionize how diseases are treated and prevented, leading to more effective and targeted therapies.

Advanced Therapeutic Technologies



The integration of advanced therapeutic technologies such as regenerative medicine and biodegradable implants will enhance the body's healing processes.

Patient Driven System



The future is increasingly shifting towards a patient-driven and patient-centric model where patients take an active role in managing their health and making informed decisions about their treatment options.

Integration of AI/ML in the entire value chain



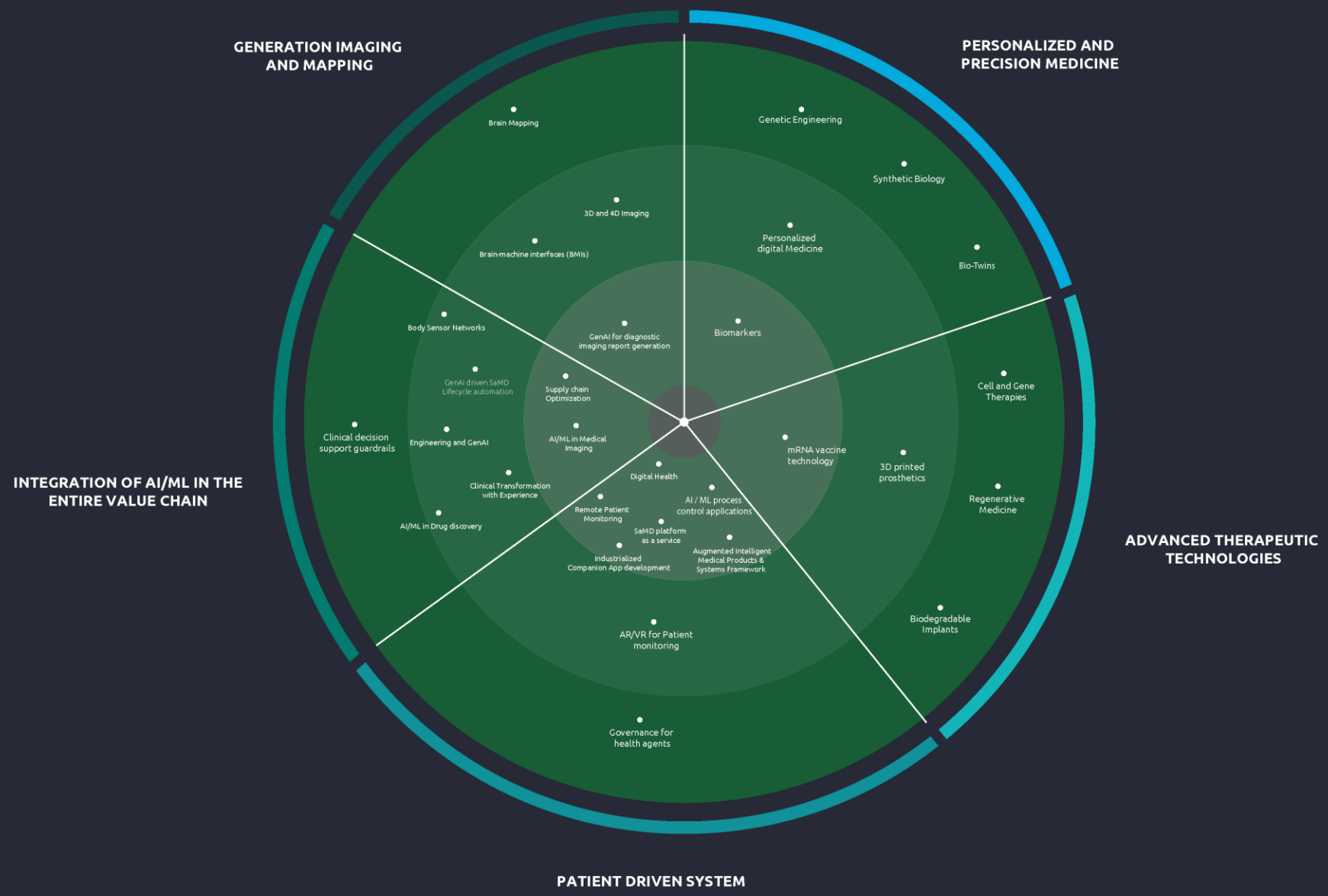
AI and ML will play a pivotal role in transforming healthcare by accelerating drug discovery, enhancing medical imaging, and optimizing clinical decisions. These technologies will enable healthcare providers to offer more accurate diagnoses and personalized treatment plans, reducing errors and improving overall efficiency

Next-Generation Imaging and Mapping



Breakthroughs in imaging technologies, such as 3D and 4D imaging, along with advanced brain mapping techniques, will provide deeper insights into the human body and brain. Brain-machine interfaces (BMIs) and AR/VR applications in healthcare will open new frontiers in understanding and treating neurological conditions

Summary of main trends



- H1 Scaling
- H2 Innovation
- H3 Research



R&I PROJECTS

Patient Driven Healthcare System



IMPS

Provides an ideal foundation for Pharma and MedTech companies to build or extend their connected health solutions



DIMEDIA²

Put the patient at the heart of health innovation, optimize and improve care pathways and development processes

Personalized and Precision Medicine



CALIPSO

Revolutionizes the development and control of tomorrow's bioprocesses



CLINIKALI

Empowers personalized and precise medicine through connected objects and digital technologies.

Integration of AI/ML in the value chain



MEDICA

Improves the user and patient experience, as well as decision-making in the medical field?



SAMII

Designs intelligent and interactive systems to assist patients as well as healthcare professionals, in order to improve therapies patients' care efficiency

Others Key Projects



ECOLAB

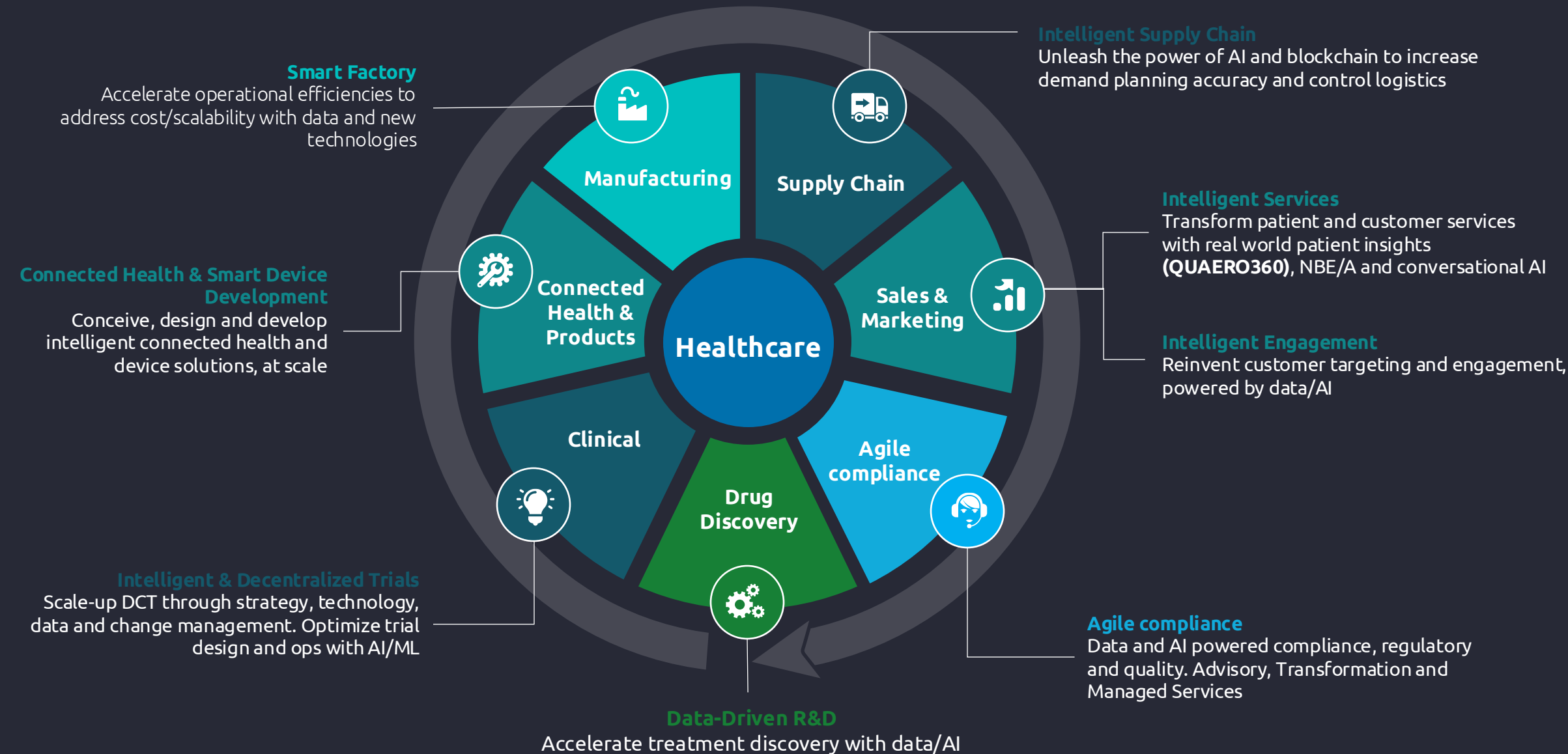
Application of life sciences and engineering effectively serves the goal of building a sustainable society



MIND & ACT

Brain-computer interfaces (BCI) address some key challenges in industry and healthcare, pushing frontiers in industrial safety and neurocognitive rehabilitation

Our services across the full value chain



THE POWER OF PARTNERSHIPS TO DRIVE INNOVATION



INDUSTRIAL PARTNERS

- Manufacturing and Supply Chain
- Improve the design of clinical trials

AVEVA

 Clinical
Powered by illuminator

Veeva

 saama



ACADEMIC PARTNERS

- AI and Autonomous Systems
- Cognitive Neuroscience



PSL 

 Massachusetts
Institute of
Technology

Stanford
University



CONSORTIA

- Digital Healthcare Transformation

WORLD
ECONOMIC
FORUM



TECHNOLOGY PARTNERS

- Intelligent Medical Products
- Data-driven R&D & Operations

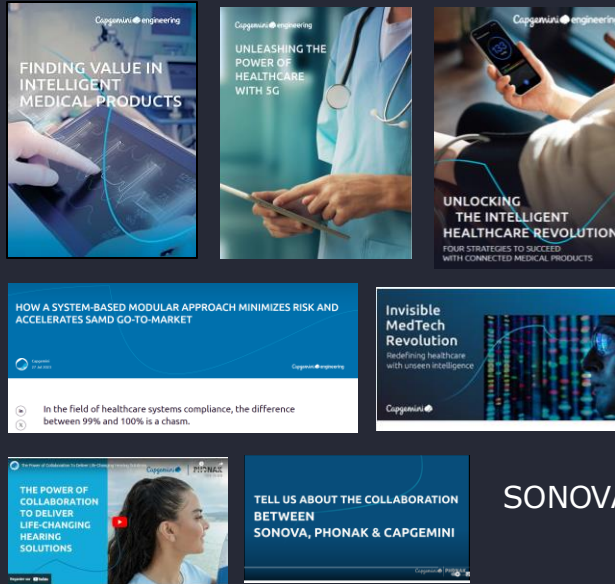



Microsoft

aws



INTELLIGENT MEDICAL PRODUCTS & SYSTEMS ENGINEERING

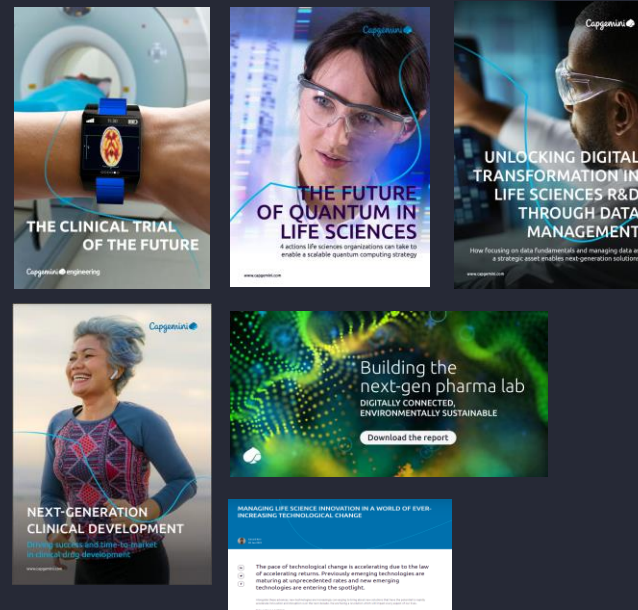


SONOVA



ECHOPEN

INTELLIGENT R&D & LABS OF THE FUTURE



[UNLOCKING DIGITAL TRANSFORMATION IN LS R&D THROUGH DATA MANAGEMENT](#)

[BLOG - MANAGING LIFE SCIENCE INNOVATION IN A WORLD OF EVER-INCREASING TECHNOLOGICAL CHANGE](#)



SANOFI

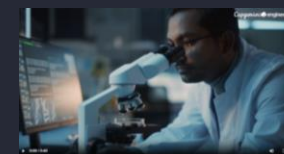


BOEHRINGER
INGELHEIM

INTELLIGENT PRODUCTION & OPERATIONS BIOPRODUCTION



[THE BIODRUG REVOLUTION](#)



SANOFI

REGULATORY COMPLIANCE & QUALITY



[INTELLIGENT RCQ AS A VALUE ACCELERATOR](#)



Thank you!