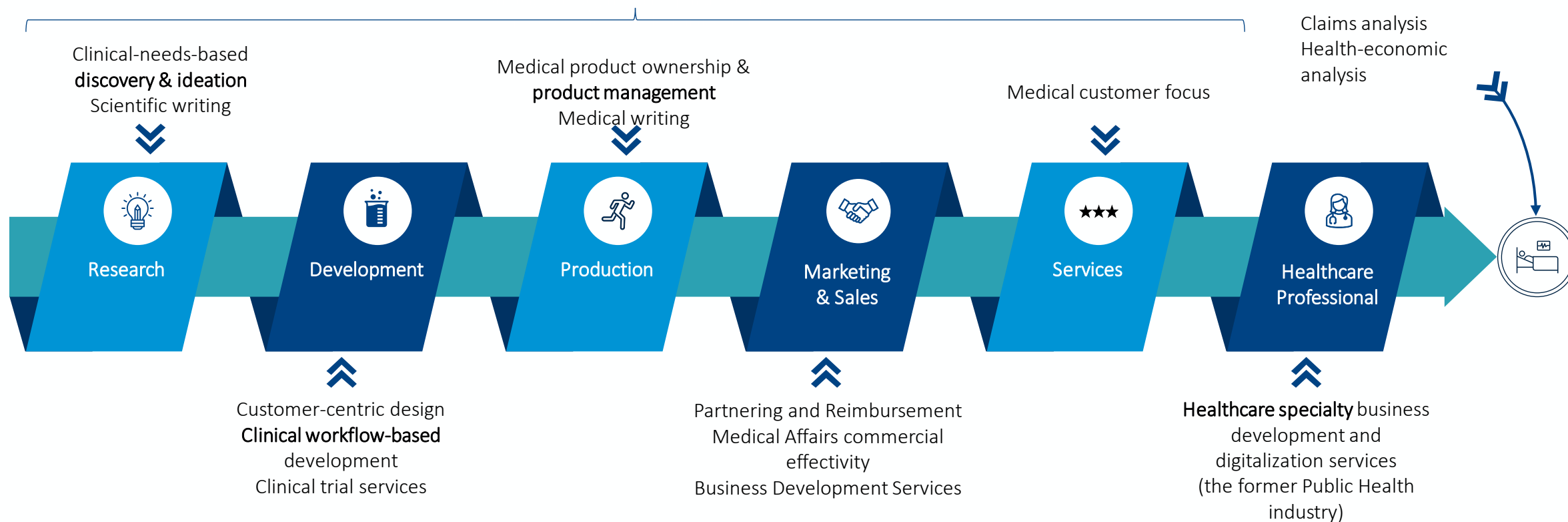




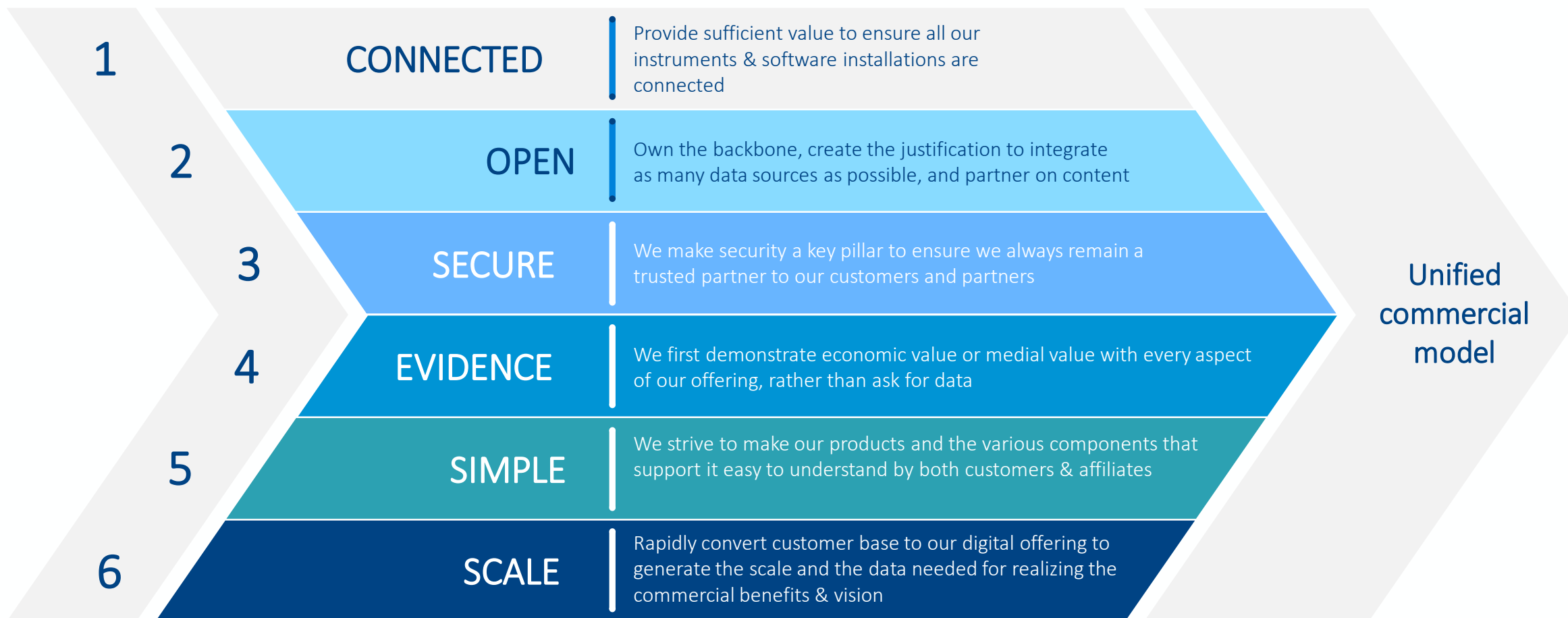
Digitalisation and sustainability in healthcare

Christian Hebich, CEO Arcondis Group

Overview of medical across the value chain



Digital Market principles



Dimension 1: Value chain of healthcare

Digital products

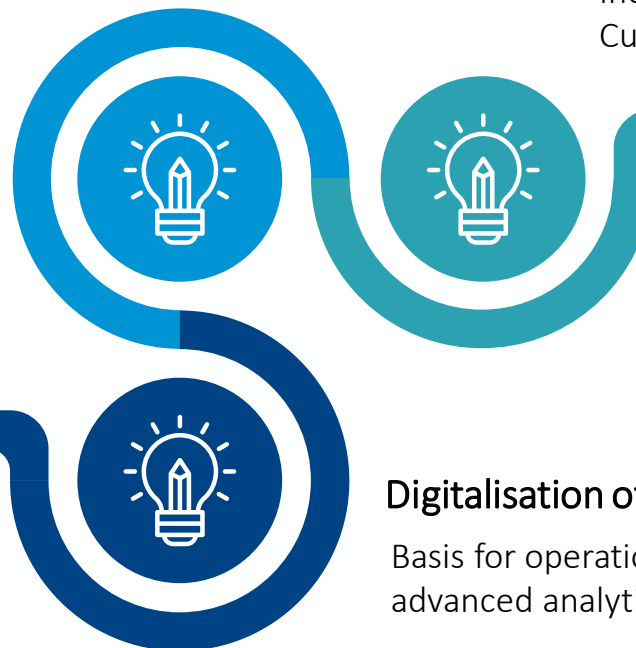
New product portfolio of digital assets
Immense breakthrough potential
Upward trend as differentiation factor

Digital customer engagement

Increased & optimised reach
Customisable services

Digitalisation of internal value chain

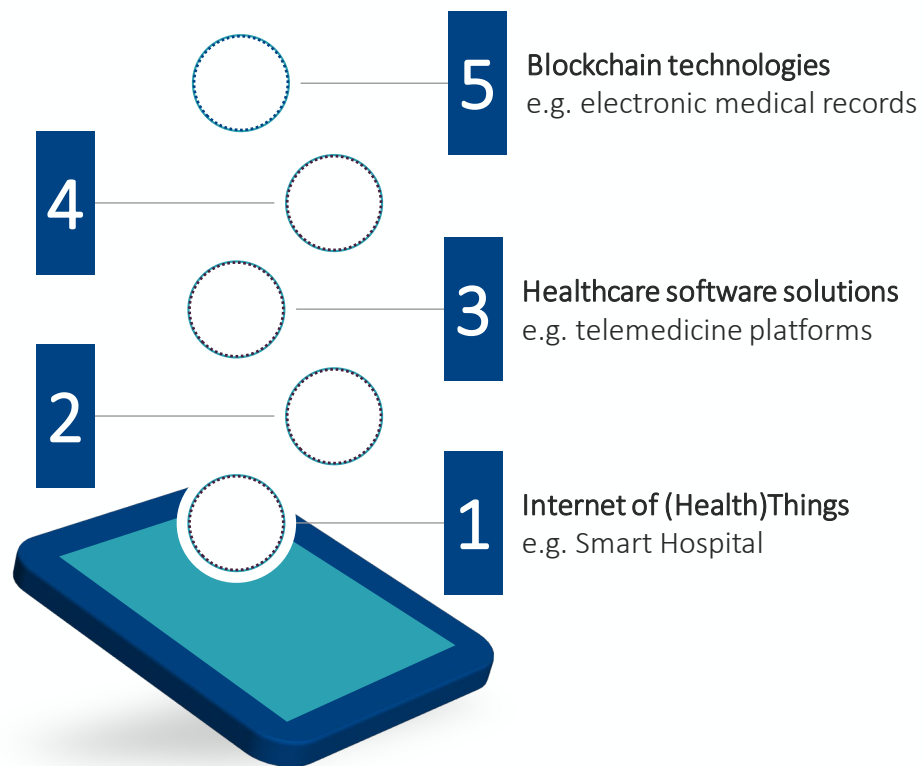
Basis for operational excellence (automation) and
advanced analytics (data-driven insights)



Dimension 2: Technology in Healthcare

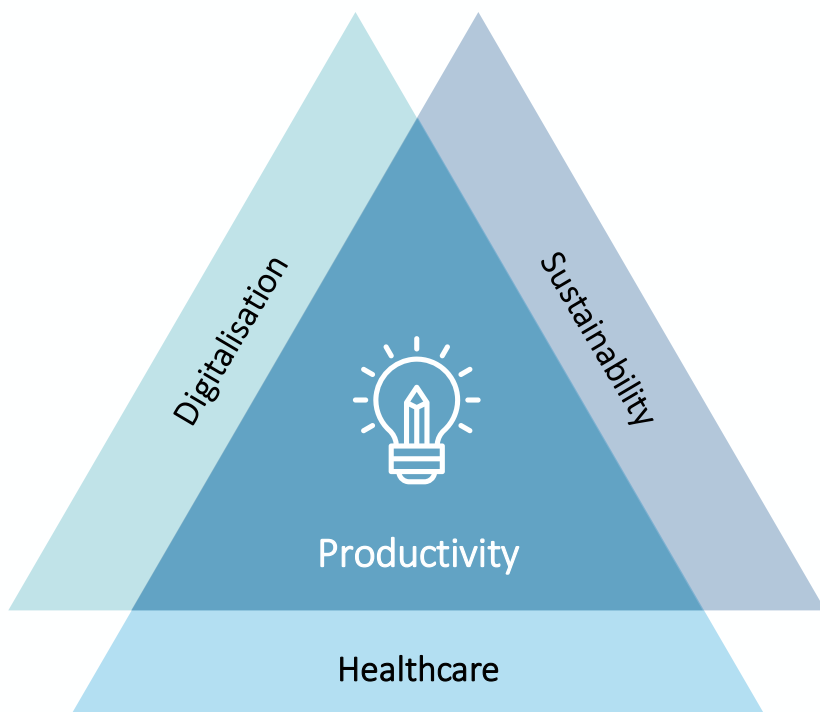
AI & Machine Learning
e.g. clinical decision support
systems

**Sensors and remote monitoring
devices**
e.g. health monitoring wearables

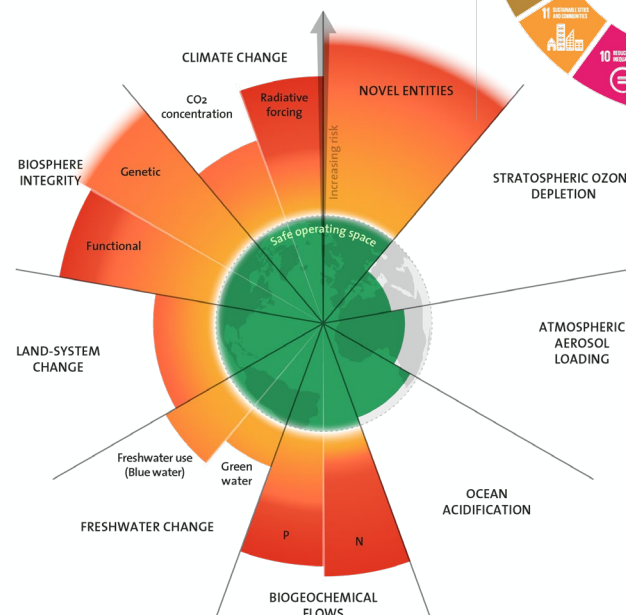


- Fast changing environment & huge technological progress
- Access to health services & care
(especially in remote locations)
- Overcoming labour shortages
- Patient engagement often results in self-service
- Patient self-care for costly care needs such as aging & mental health

How sustainability can help along the healthcare value chain

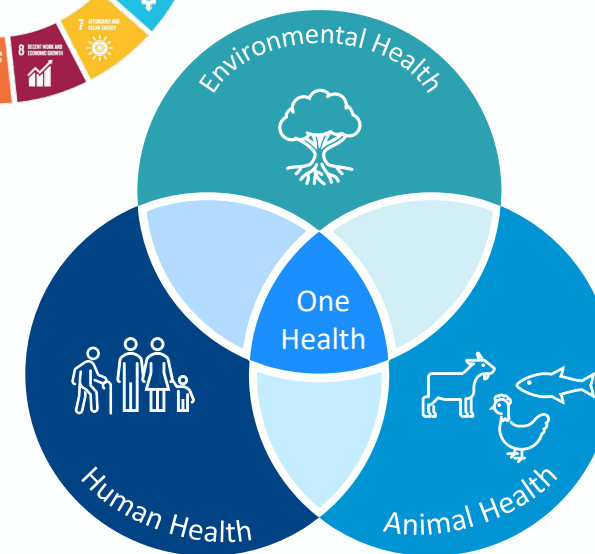


Planetary boundaries



Sustainable development goals

One Health



Example: Digital Lab



Keep track of expiration dates & quantities used



Optimize inventory workflow



Assign custom locations to more efficiently store & retrieve materials



Simplify material request



Set min. & max. amounts to ensure consistent availability



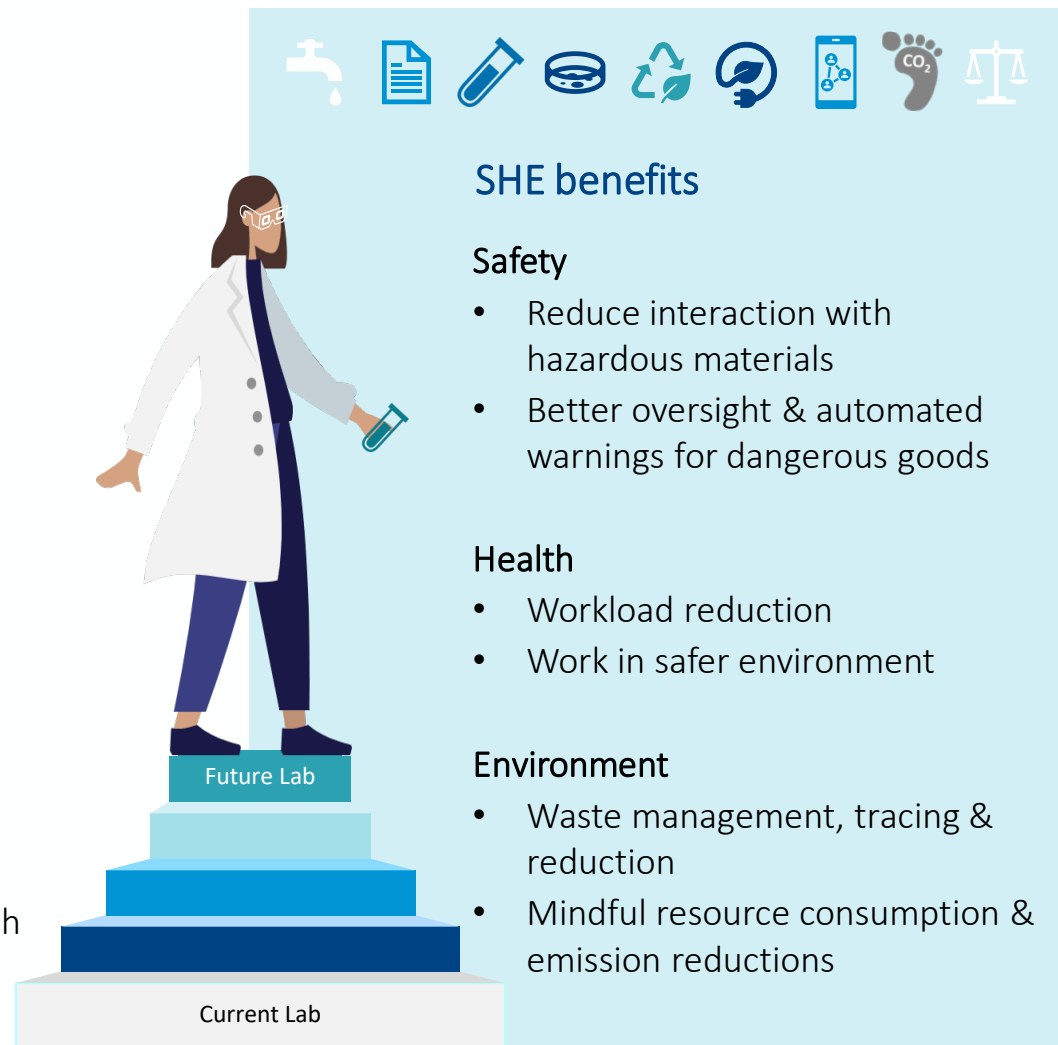
Reduce lab waste



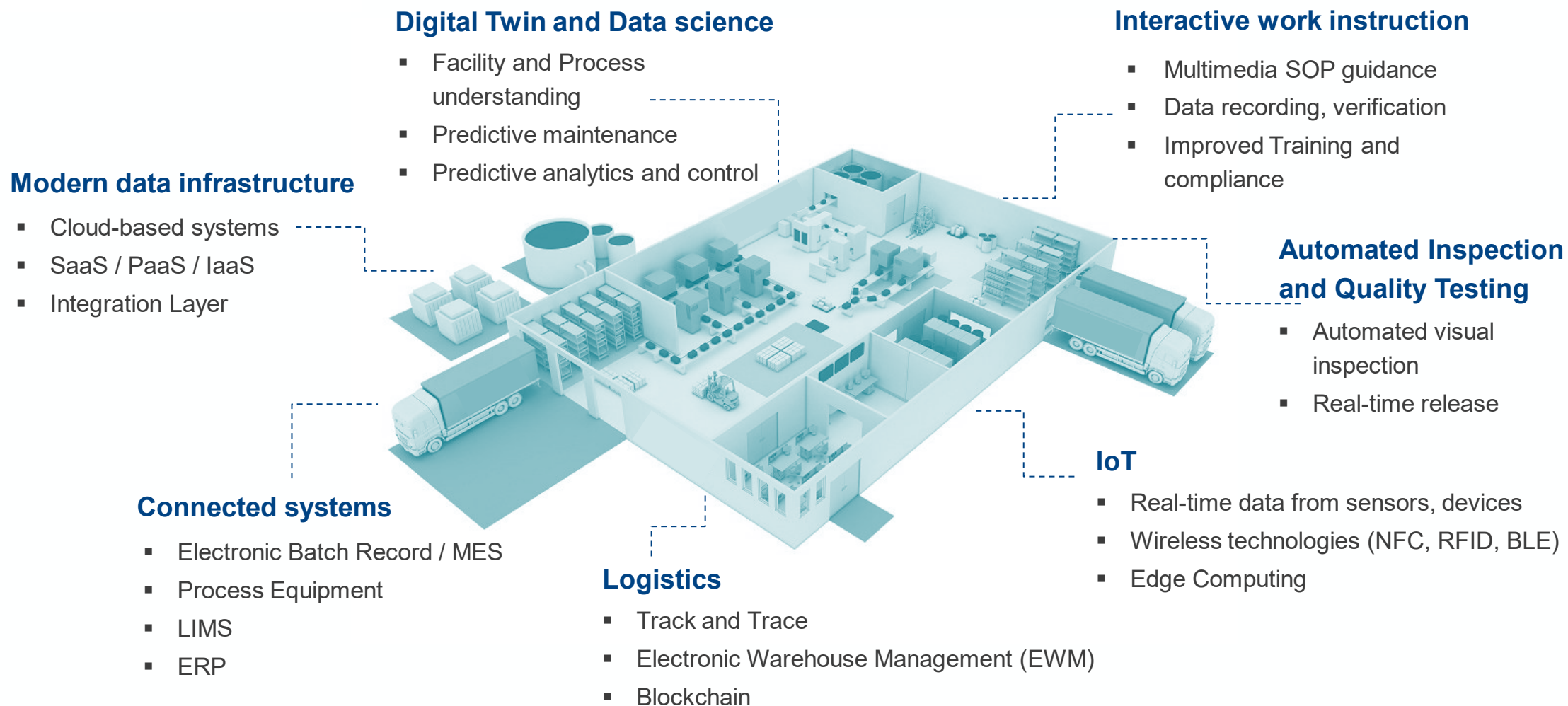
Pull lists of chemicals such as flammable, out of stock, or expiring



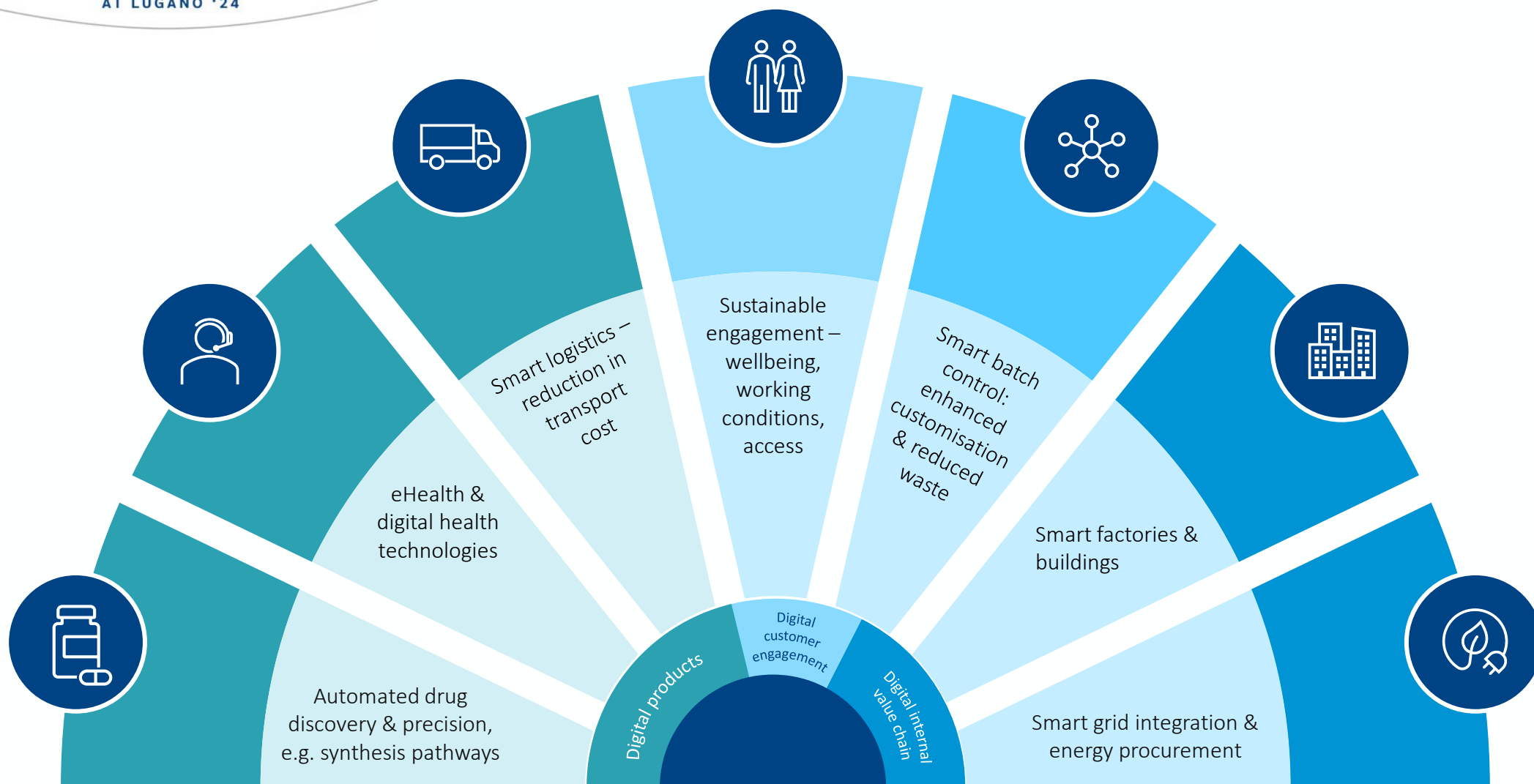
Plan to reduce hazardous substances & to replace with sustainable alternatives



Example: Initiatives in a digital/smart factory



Digitalisation as a solution



The sustainability business case

Investments

Legislation & SOPs



Predictions for operational efficiency



Data & resource sharing



Minimise storage



Operational footprints



Increased circularity & lean processes



Electricity procurement & renewables



Modernisation of (smart) infrastructure



Water (risk) management



Waste reduction & recycling



Return on Investment

Cost increase of raw materials



Delivery security



Supply chain



Business continuity & risk management



Direct returns from savings



Indirect return due to access to new customers & talents



Required transformation to drive sustainable change

Potential gap & challenge

Time

Subject matter expertise

Continued stakeholder buy in

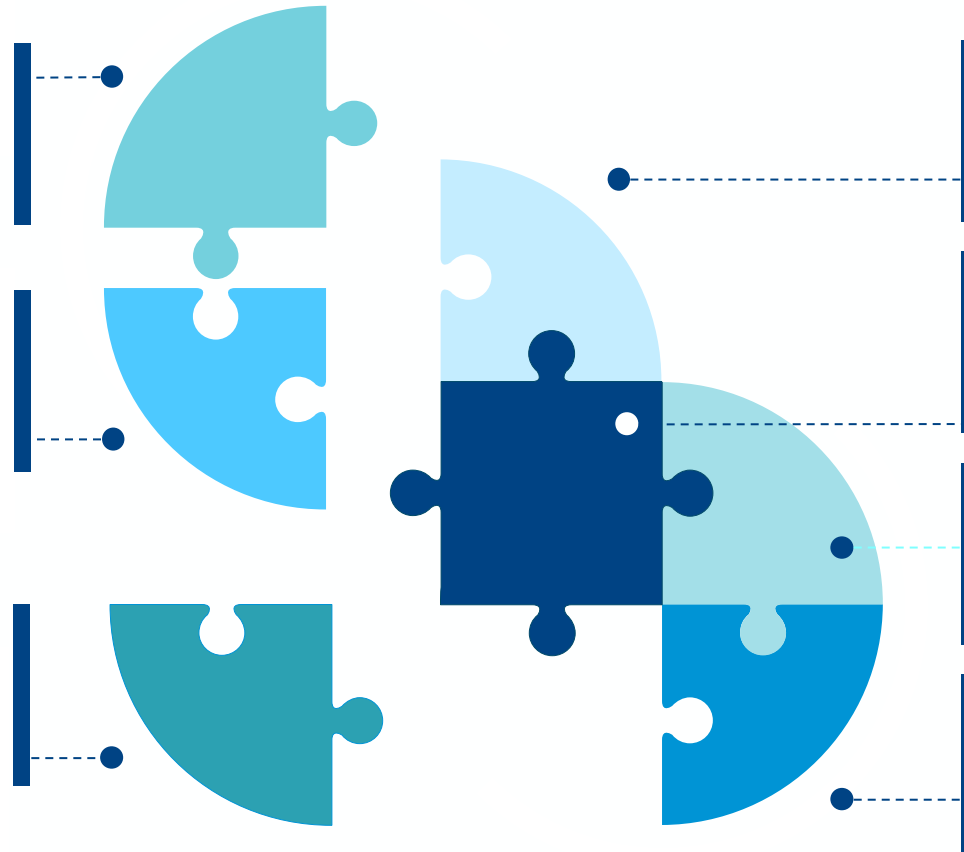
Opportunities

Creating a safer work environment

Cost savings

Employee satisfaction & motivation

Create a new community, connections and opportunities for exchange



Conclusions



1

The intended outcome of a good healthcare system as such is a core component of sustainability

2

Digitalisation in healthcare is not contradictory to sustainability

Digitalisation can act as an enabler of sustainability if done right

3

Combination of digitalisation & sustainability usually have a positive/secure business case (ROI) while initial investment is required as returns do not come immediately

- Important to prioritise the areas of transformation with highest impact and return, e.g. R&D labs
- Sustainability has an impact on the entire operating model, so change management to introduce digital solutions for sustainability is key

We make healthcare better



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