A MedTech Europe event

The MedTech Forum

bringing HealthTech stakeholders together

14-16 MAY
2019
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Paris
FRANCE

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Digital Healthcare Transformation. How to drive on a bumpy road.

Joan Cornet Prat. Director of the Digital Health Observatory.
ECHAlliance. Barcelona Hub.

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Anatomy Lesson Dr. Willem van der Meer , 1617

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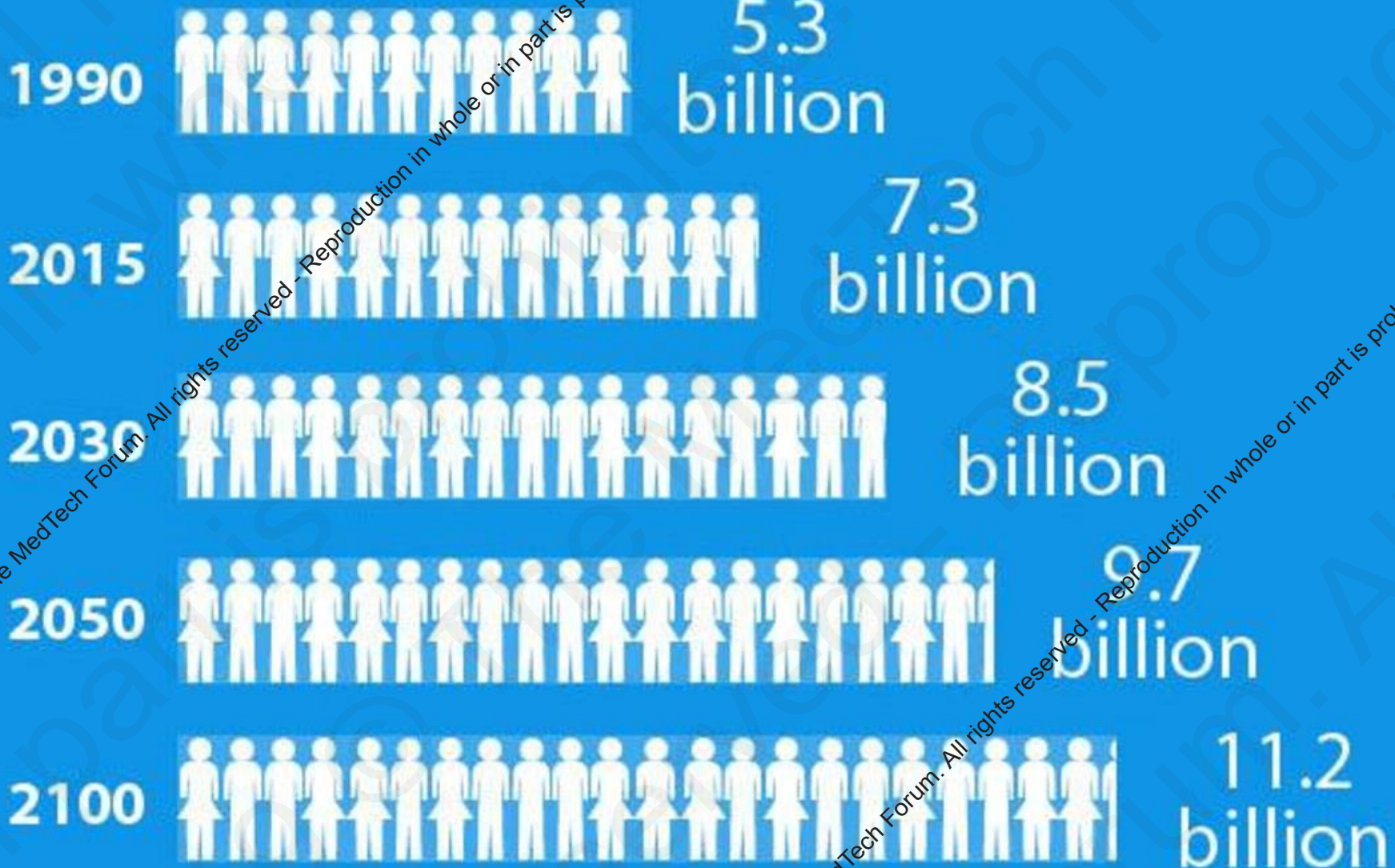
Projected world population until 2100



Source: United Nations Department of Economic and Social Affairs, Population Division, *World Population Prospects: The 2015 Revision*
Produced by: United Nations Department of Public Information

2015 TIME FOR GLOBAL ACTION

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Making the case for smarter investing in health:

highlights of "Health at a Glance: Europe 2018"

Health spending accounts for **9.6% of GDP**

Low income households have **5 times higher unmet** care needs than high income

Up to one-fifth of health spending is inefficient and could be used for other care needs

*Unnecessary admissions consume over **37 million hospital bed days** each year*

1 in 6 people has a **mental health issue**

*Direct and indirect costs adding up to more than **4% of the GDP** (over EUR 600 billion)*

PREVENTION REMAINS A PRIORITY

MORE THAN 790 000 DEATHS PER YEAR DUE TO BEHAVIOURAL RISK FACTORS

20% ADULT EU CITIZENS ARE SMOKERS

38% ADOLESCENTS REPORTED BINGE-DRINKING

1 IN 6 ADULT EU CITIZENS ARE OBESE

OECD BETTER POLICIES FOR BETTER LIVES

For the full report and more information, see ec.europa.eu/health/state

Source: Health at a Glance: Europe 2018 (OECD, European Commission)

Health and Food Safety

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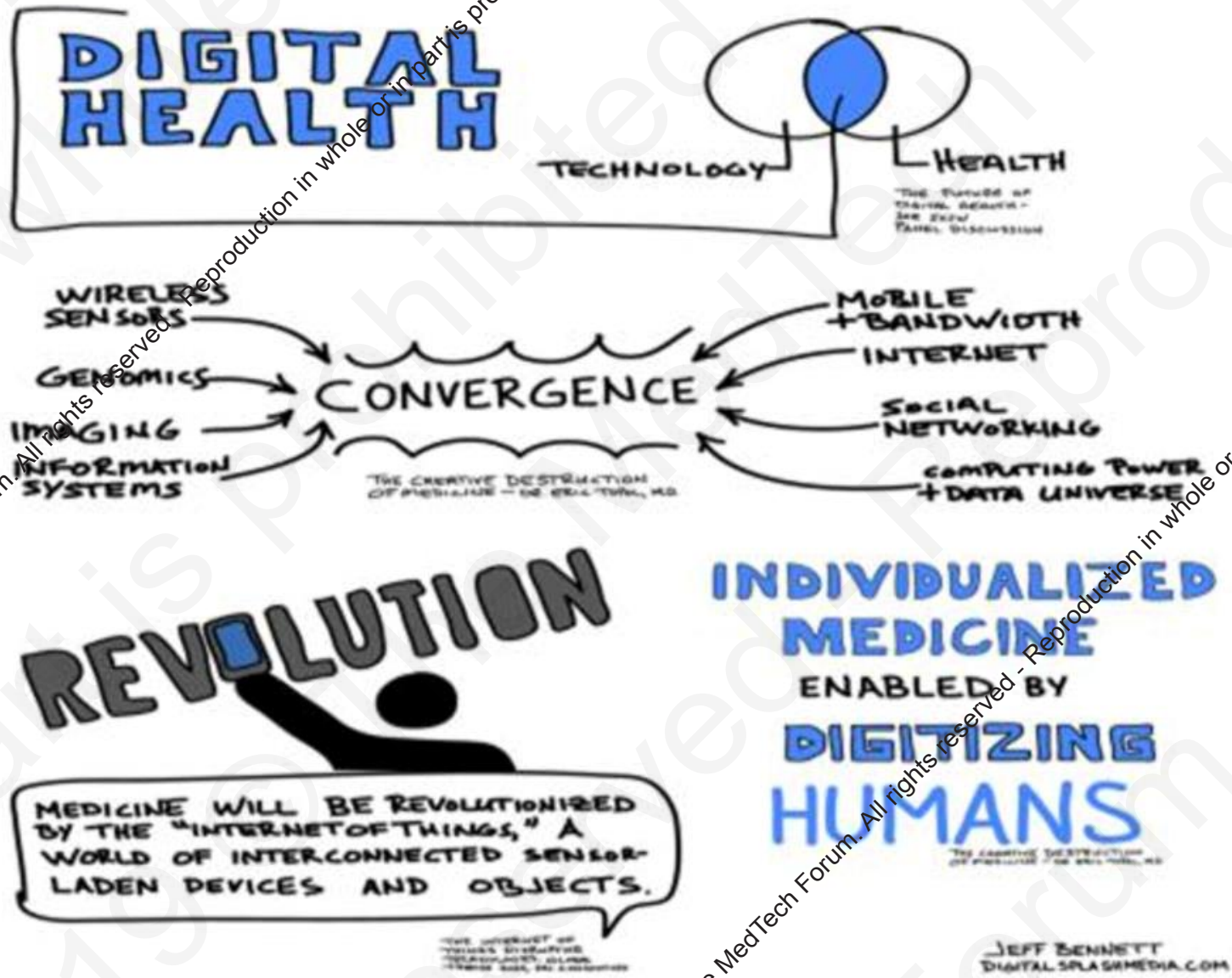

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We need a story of digital health ...

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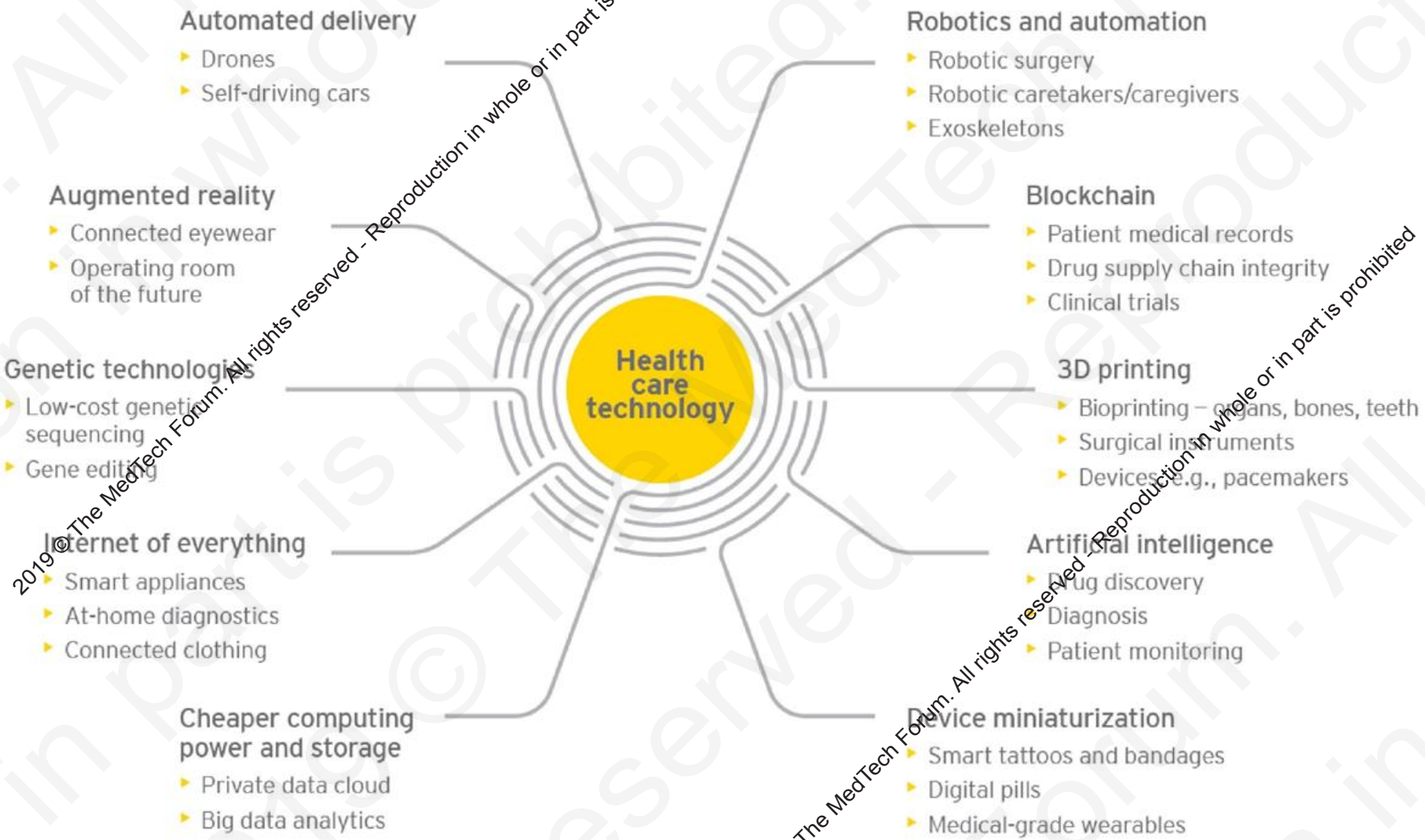

Source: EY, World Economic Forum.

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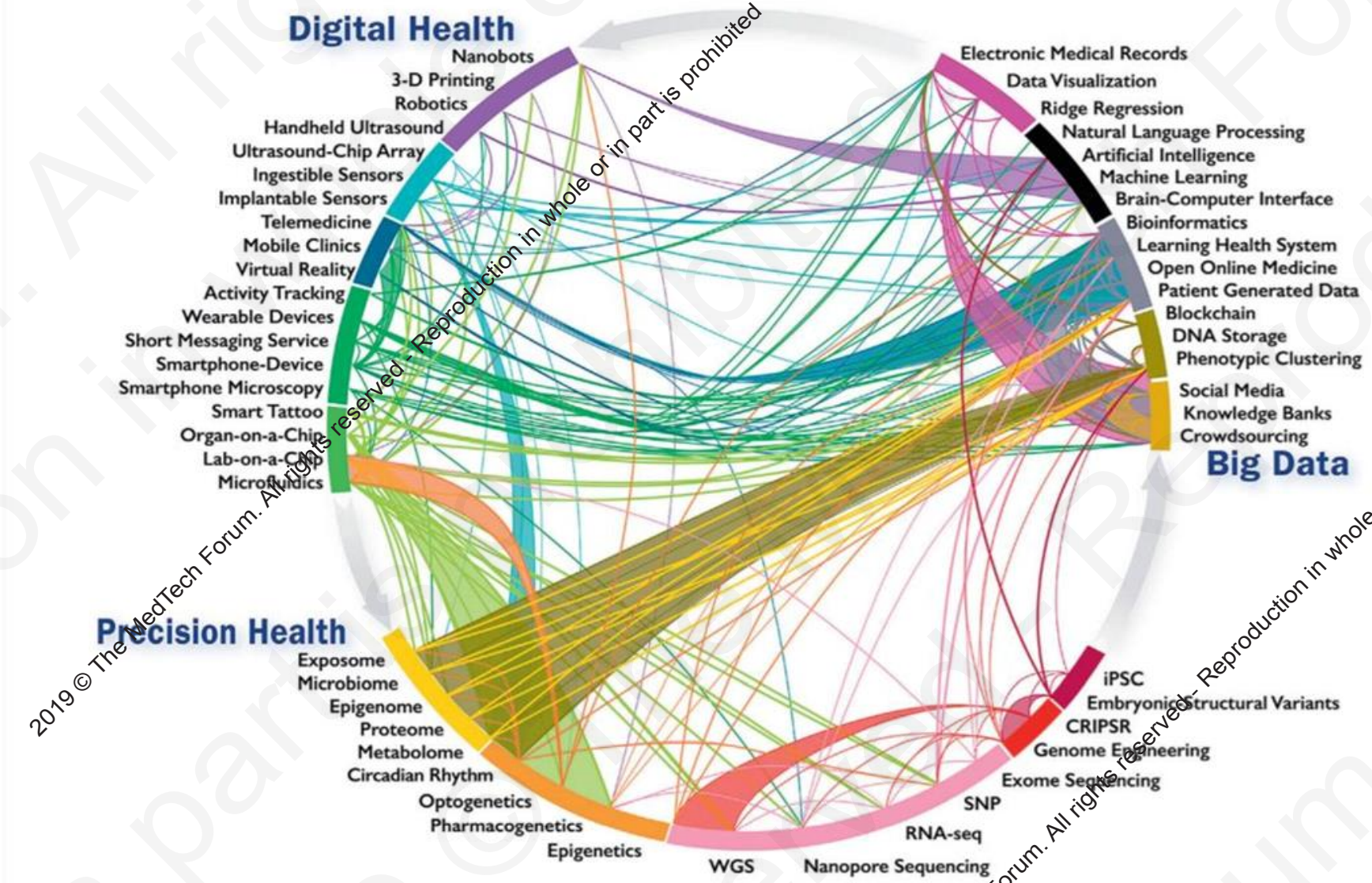

Infographic of emerging innovations and developments in digital health (14-32), big data (33-51), and precision health (52-78) and their intraconnections and interconnections. 3d indicates 3-dimensional; CRISPR, clustered regularly interspaced short palindromic repeats; DNA, deoxyrybonucleic acid; iPSC, induced pluripotent stem cells; RNA, ribonucleic acid; SNP, single nucleotide polymorphism; WGS, whole genome sequencing.

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DIGITAL HEALTH TRANSFORMATION TRENDS

1. Telemedicine is Fast Becoming a Necessity
2. Internet of Medical Things (IoMT) Irruption in the market
3. Chatbots Serving as Digital Assistants to Physicians
4. Growing role of Artificial Intelligence (AI) in Healthcare
5. Rapid Acceleration in Adoption of Cloud Services
6. Big Data Analytics is Redefining the Dynamics of Digital Healthcare Industry
7. Healthcare Robotics

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Digital Transformation in healthcare: 6 key challenges

- Fear of change
- The cost factor
- Security of data
- The silo effect
- Missing the big picture
- Ethical dimension

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HEALTH SKILLS OF THE FUTURE

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2022 Skills Outlook

WORLD ECONOMIC FORUM

COMMITTED TO IMPROVING THE STATE OF THE WORLD

Growing

1. Analytical thinking and innovation
2. Active learning and learning strategies
3. Creativity, originality and initiative
4. Technology design and programming
5. Critical thinking and analysis
6. Complex problem-solving
7. Leadership and social influence
8. Emotional intelligence
9. Reasoning, problem-solving and ideation
10. Systems analysis and evaluation

Declining

1. Manual dexterity, endurance and precision
2. Memory, verbal, auditory and spatial abilities
3. Management of financial, material resources
4. Technology installation and maintenance
5. Reading, writing, math and active listening
6. Management of personnel
7. Quality control and safety awareness
8. Coordination and time management
9. Visual, auditory and speech abilities
10. Technology use, monitoring and control

Source: Future of Jobs Report 2018, World Economic Forum

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Health Skills of the Future: the EIT Health Education Needs Analysis

EIT Health Campus

Discussion Paper, December 2018

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To understand how the health profession will change we need to understand seven ongoing trends which are driving the 4th industrial revolution and how they are affecting the skill needs.

DISRUPTIVE Trends

Trends that are beyond our control in reshaping healthcare

- (1) Aging society
- (2) Digitalization
- (3) Personalisation
- (4) Patient Empowerment

REACTIVE Trends

Trends that are emerging as a result of the disruptive trends and must be acted upon

- (5) Prevention & Prediction
- (6) Managing chronic diseases
- (7) Remote Healthcare

eit Health

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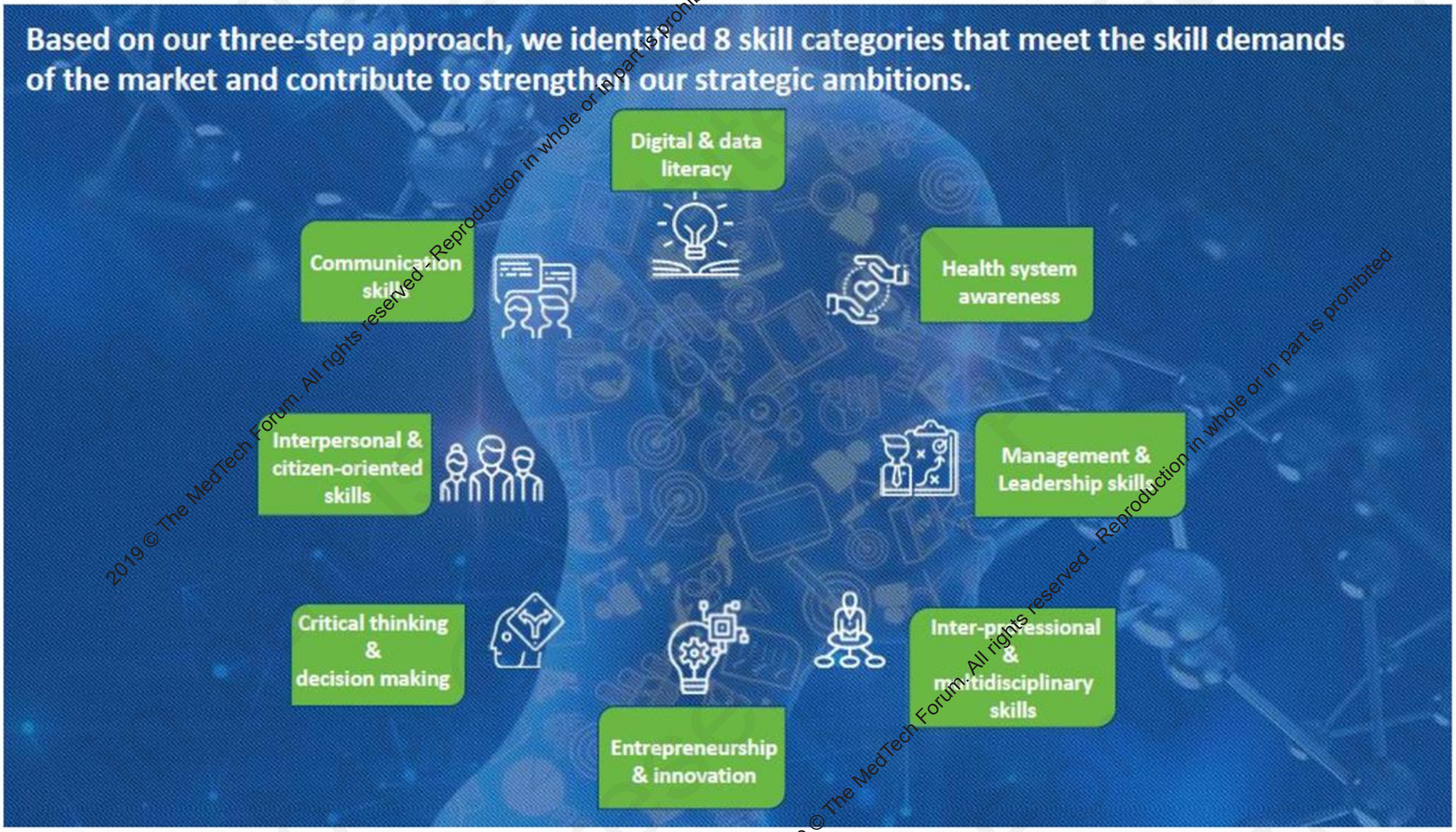

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WE NEED COMMUNITIES OF KNOWLEDGE AND PRACTICE...

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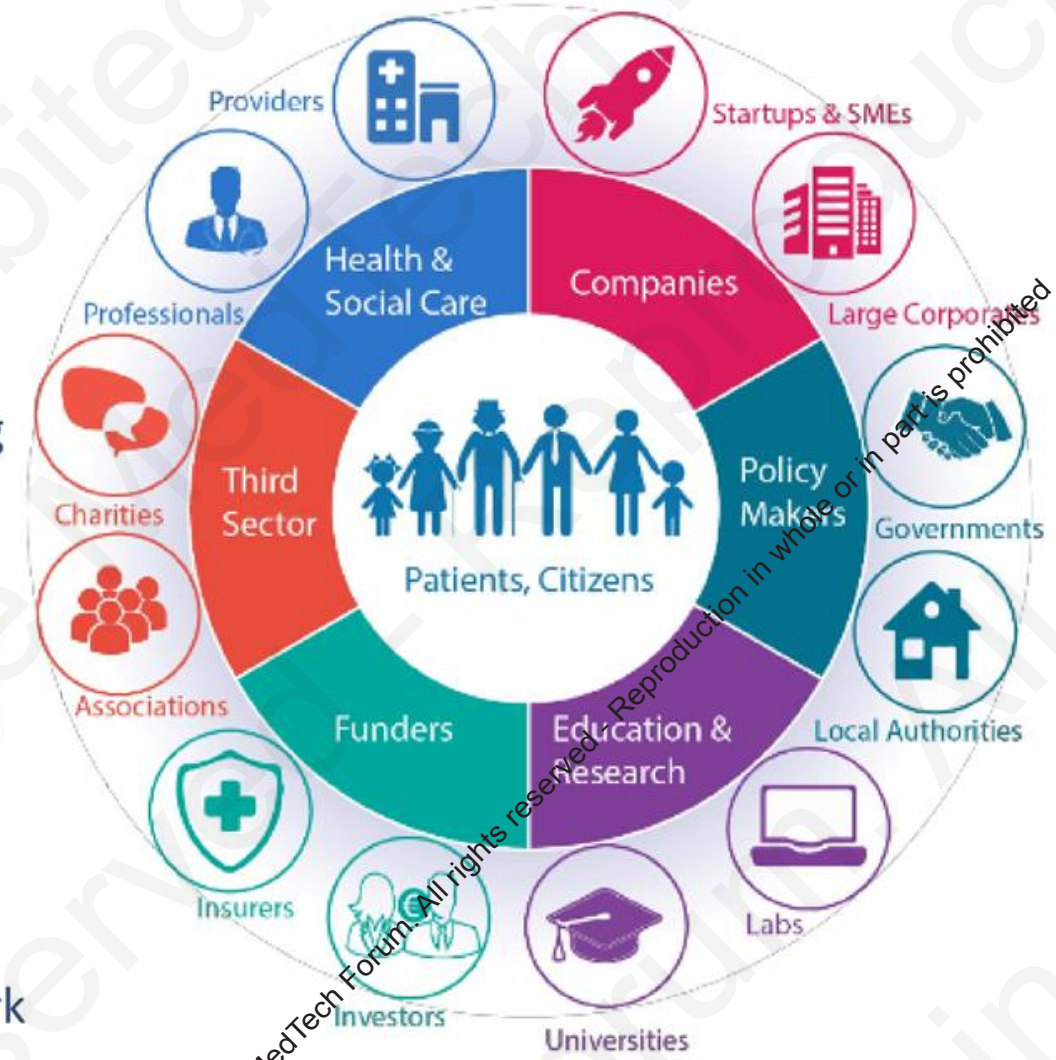
ECHAlliance Ecosystems: Basic Principles

Ecosystem Principles:

- Based on a geographic area
- Multi-sectors stakeholders gathering
- Accessible to all (no barriers)
- Permanent, with regular gatherings
- Light governance via working group
- Shared strategy & action plan
- Lead with a need
- Member of an International network
- **Patients / Citizens at the centre**



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CATEGORY: KNOWLEDGE

INDUSTRY AND START-UPS | INNOVATION & RESEARCH

11 March, 2019 | No Comments

DIGITAL THERAPEUTICS: LOOKING FOR THEIR PLACE IN HEALTHCARE

INDUSTRY AND START-UPS | KNOWLEDGE

19 February, 2019 | No Comments

HEALTHCARE: THE CROSS-CURRENTS OF CONVERGENCE DELIVER PARTICIPATORY HEALTH

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AT THE END OF THE DAY, WE CARE ABOUT PEOPLE. TECHNOLOGY IS A ONLY A TOOL…

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THANK YOU !!!

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