

# Digital transformation of health and care in the Digital Single Market

*empowering citizens and building a healthier society*

Putting people at the centre  
of **health and care**

- Enabling secure access to health data across the EU
- Data sharing for better research and personalised healthcare
- Empowering patients with digital tools

#DigitalSingleMarket  
#DigitalHealth

# Digital Health and Care



TRANSFORMATION OF HEALTH AND CARE IN THE DIGITAL SINGLE MARKET - Harnessing the potential of data to empower citizens and build a healthier society

## European health challenges

- ⊗ Ageing population and chronic diseases putting pressure on health budgets
- ⊗ Unequal quality and access to healthcare services
- ⊗ Shortage of health professionals

## Potential of digital applications and data to improve health

- 🔧 Efficient and integrated healthcare systems
- 🔧 Personalised health research, diagnosis and treatment
- 🔧 Prevention and citizen-centred health services

## What EU citizens expect...

90%  
agree

To access their own health data  
(requiring interoperable and quality health data)

80%  
agree

To share their health data  
(if privacy and security are ensured)

80%  
agree

To provide feedback on quality  
of treatments

## Support European Commission:

### 1 Secure access and exchange of health data



#### Ambition:

Citizens can securely access and share (e.g. with doctors or pharmacies) their health data anywhere in the EU.

#### Actions:

- eHealth Digital Service Infrastructure will deliver initial cross-border services (patient summaries and ePrescriptions) and cooperation between participating countries will be strengthened.
- Proposals to extend scope of eHealth cross-border services to additional cases, e.g. full electronic health records.
- Recommended exchange format for interoperability of existing electronic health records in Europe.



### 2 Health data pooled for research and personalised medicine



#### Ambition:

Shared health resources (data, infrastructure, expertise...) allowing targeted and faster research, diagnosis and treatment.

#### Actions:

- Voluntary collaboration mechanisms for health research and clinical practice (starting with 'one million genomes by 2022' target).
- Specifications for secure access and exchange of health data.
- Pilot actions on rare diseases, infectious diseases and impact data.

### 3 Digital tools and data for citizen empowerment and person-centred healthcare



#### Ambition:

Citizens can monitor their health, adapt their lifestyle and interact with their doctors and carers (receiving and providing feedback).

#### Actions:

- Facilitate supply of innovative digital-based solutions for health, also by SMEs, with common principles and certification.
- Support demand uptake of innovative digital-based solutions for health, notably by healthcare authorities and providers, with exchange of practices and technical assistance.
- Mobilise more efficiently public funding for innovative digital-based solutions for health, including EU funding.



# Commission's budget proposal for 2021 - 2027



## A BUDGET ALIGNED TO POLITICAL PRIORITIES Simplification, transparency and flexibility

In billion euro, current prices



### I. SINGLE MARKET, INNOVATION AND DIGITAL €187.4

- 1 Research and Innovation
- 2 European Strategic Investments
- 3 Single Market
- 4 Space



### II. COHESION AND VALUES €442.4

- 5 Regional Development and Cohesion
- 6 Economic and Monetary Union
- 7 Investing in People,  
Social Cohesion and Values



### III. NATURAL RESOURCES AND ENVIRONMENT €378.9

- 8 Agriculture and Maritime Policy
- 9 Environment and Climate Action



### IV. MIGRATION AND BORDER MANAGEMENT €34.9

- 10 Migration
- 11 Border Management



### V. SECURITY AND DEFENCE €27.5

- 12 Security
- 13 Defence
- 14 Crisis Response



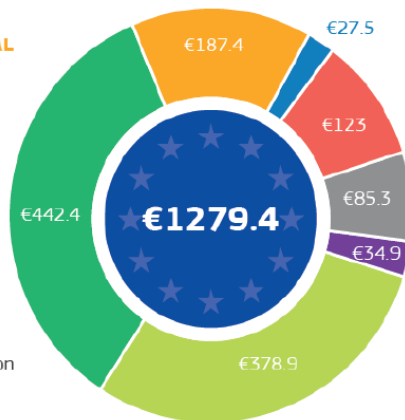
### VI. NEIGHBOURHOOD AND THE WORLD €123

- 15 External Action
- 16 Pre-Accession Assistance



### VII. EUROPEAN PUBLIC ADMINISTRATION €85.3

- 17 European Public Administration



# Horizon Europe: evolution not revolution

## Specific objectives of the Programme

Support the creation and diffusion of high-quality knowledge

Strengthen the impact of R&I in supporting EU policies

Foster all forms of innovation and strengthen market deployment

Optimise the Programme's delivery for impact in a strengthened ERA



**Pillar 1**  
Open Science

European Research Council

Marie Skłodowska-Curie Actions

Research Infrastructures



**Pillar 2**  
Global Challenges and Industrial Competitiveness

Clusters

- Health
- Inclusive and Secure Society
- Digital and Industry
- Climate, Energy and Mobility
- Food and natural resources

Joint Research Centre



**Pillar 3**  
Open Innovation

European Innovation Council

European innovation ecosystems

European Institute of Innovation and Technology

**Strengthening the European Research Area**

Sharing excellence

Reforming and Enhancing the European R&I system

o *Health cluster: Six main areas of intervention*



Health throughout  
the Life Course



Environmental and Social  
Health Determinants



Non-communicable  
and Rare Diseases



Infectious diseases



Tools, Technologies  
and Digital Solutions  
for Health and Care



Health Care Systems

# Horizon Europe: Partnerships



## New approach to European Partnerships

New generation of objective-driven and more ambitious partnerships in support of agreed EU policy objectives

### Key features

- Simple architecture and toolbox
- Coherent life-cycle approach
- Strategic orientation

### Co-programmed

Based on Memoranda of Understanding / contractual arrangements; implemented independently by the partners and by Horizon Europe

### Co-funded

Based on a joint programme agreed by partners; commitment of partners for financial and in-kind contributions & financial contribution by Horizon Europe

### Institutionalised

Based on long-term dimension and need for high integration; partnerships based on Articles 185 / 187 of TFEU and the EIT-Regulation supported by Horizon Europe

# Strategic planning

to define multiannual work programmes and calls for proposals

- Transparency and stakeholder involvement
- Prioritisation and flexibility to align to political priorities
- Internal programme coherence & synergies with other programmes

## Multiannual Strategic R&I Plan

\* Multiannual orientations and priorities in one document

\* Areas for partnerships and missions

Strategic discussions with Member States and European Parliament

Consultation with stakeholders

**Work Programmes**

# Next steps





# Digital Europe programme – What?

## Digital Europe Programme

*Reinforcing digital capacities  
Ensuring their best use*

### Digital transformation & Interoperability

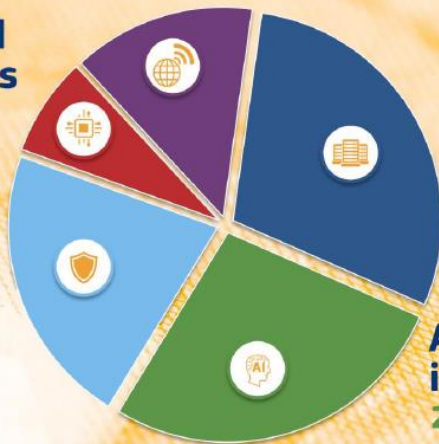
1.3 € billion

### Advanced digital skills

0.7 € billion

### Cybersecurity & trust

2 € billion



**€ 9.2 billion  
in total**

### High performance computing

2.7 € billion

### Artificial intelligence

2.5 € billion

# Targets and Impact – Some examples (2)



## Advanced Digital skills

- Increase ICT specialist employment from 8.2 million in 2016 to 12 million in 2027
- Increase growth rate/per year of ICT specialists from 3.3% (2007-16) to 4.3% (2016-27).



## Modernisation of public administration

- By 2030: 450 million citizens and 24 million SMEs benefit from "Once Only Principle" for their administration information
- By 2022, operate a public block chain infrastructure enabling cross-border public services serving as a catalyst for new innovative services developed by start-ups and SMEs



## Digital health

- By 2022: 1 million sequenced genomes
- By 2027: 450 million citizens have access to health records,
- 100 million citizens have personalised health systems
- Data from 10 million citizens available for new discoveries



## Digital Innovation Hubs

- 250 Hubs across the EU
- 90 experiments per hub
- Reaching ~42000 SMEs

# Trust in a Digital Society



- Website: [bit.ly/Eudigitalhealthcare](http://bit.ly/Eudigitalhealthcare)
- Twitter: @eHealth\_EU
- Facebook: [EU.ehealth](https://www.facebook.com/EU.ehealth)
- Newsletter: [bit.ly/eHealthinFocus](http://bit.ly/eHealthinFocus)

- eHealth: <https://ec.europa.eu/digital-single-market/en/policies/ehealth>
- R&D&I: <http://ec.europa.eu/horizon-europe>
- EU future budget: [http://ec.europa.eu/budget/mff/index\\_en.cfm](http://ec.europa.eu/budget/mff/index_en.cfm)
- Digital Programme: [http://europa.eu/rapid/press-release\\_IP-18-4043\\_en.htm](http://europa.eu/rapid/press-release_IP-18-4043_en.htm)

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