

Agenda

- 1. Context: telemedicine & (digital) healthcare in Germany
- 2. Organizational framework for telemedicine
- 3. Legislation and regulation for telemedicine
- 4. Ethical guidelines
- 5. Legal and ethical challenges to date



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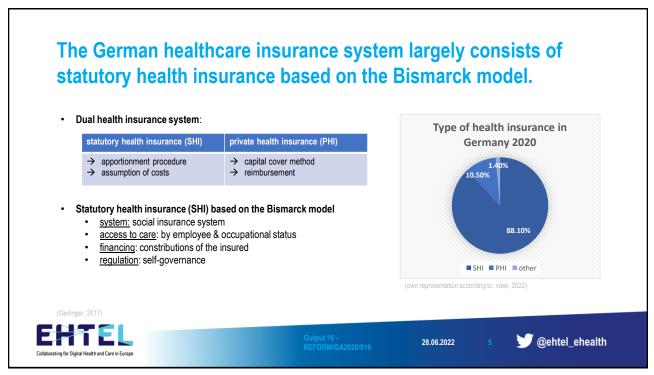
1. Background information about Germany



Berlin				
German				
357,022 km ² (137,847 sq mi)				
16				
Population				
83.2 million				
232/km ² (600.9/sq mi)				
2021				
\$4,743 trillion (\$56,956)				
13.1 %				
Women 83.4 years Men 78.6 years				
Bismarck Model (≈ 10.5% PHI)				



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The German interpretation of the Bismarck model assumes free choice of health insurance and a regulated competition.

- Statutory health insurance (SHI): social health care system, based on the Bismarck model
- Characteristics: free choice of health insurance & regulated competition between health insurance

Financing:

- income-related contributions by employees (7,3%)
- same percentage by employers (7,3%)
- + additional contribution (health insurance individual)

collected in the health fund

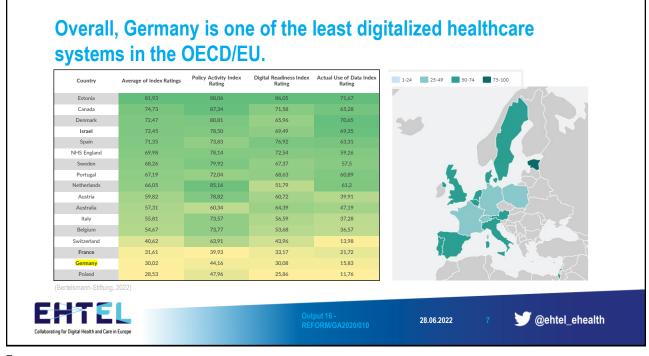
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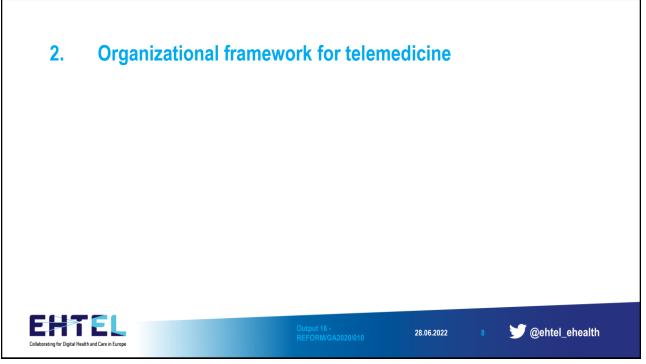
Payment of all health care services of the SHI-insured (independent of income and burden of disease)

(Bundesgesundheitsministerium, n.d. a; AOK-Bundesverband, n.d.)









The underlying legislation for German telemedicine was kickstarted in the last legislative period (2018-2021).

Year in effect	Shortcut	Name	Brief description
12/2015	E-Health-Act	Act for secure digital communication and applications in the healthcare system	 1st foundation stone for the establishment of a secure telematics infrastructure (TI) enables introduction of digital health applications (DiGA)
05/2019	TSVG	Appointment Service and Supply Act \rightarrow Act for faster appointments and better care	 obligation of health insurance companies to offer an electronic patient record (ePA) for their patients starting in 2021 creates prerequisites for the electronic certificate of incapacity for work (eAU)
08/2019	GSAV	Act for more safety in the supply of medicines	gradual introduction of the electronic prescription (e-prescription)
12/2019	DVG	Digital Supply Act	 entitlement of people with statutory health insurance to DiGAs (can be prescribed) expansion of the digital network in the healthcare system is ensured definition of IT security requirements through standards
10/2020	PDSG	Patient Data Protection Act \rightarrow Act on the Protection of Electronic Patient Data in the Telematics Infrastructure	 regulations on ePA & e-prescription & Patients get a legal right to digital care pharmacies & hospitals to be connected to the TI on a mandatory basis requirements for the TI in Germany (including data protection)
10/2020	KHZG	Hospital Future Act	 promoting & improving the digital infrastructure in hospitals
06/2021	DVPMG	Digital Supply and Care Modernization Act	 expansion of telemedical applications in care & modern networking in the healthcare sector transfer of data to the ePA (e.g. electronic emergency) future financing of digital care applications (DiPAs)

(Interoperabilitäts-Navigator (INA), n.d.; Bundesgesundheitsministerium, n.d. c)



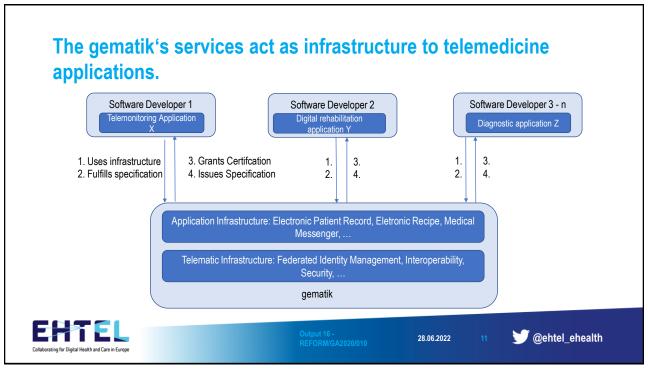
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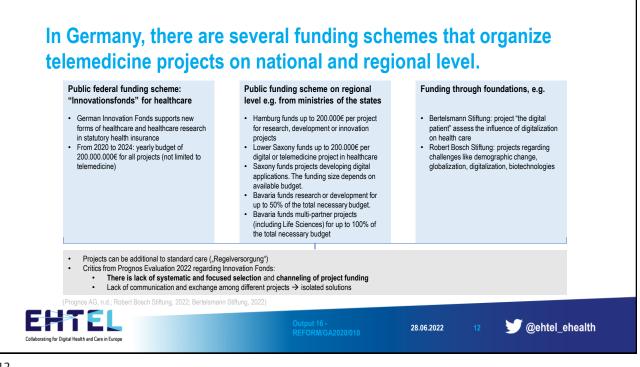


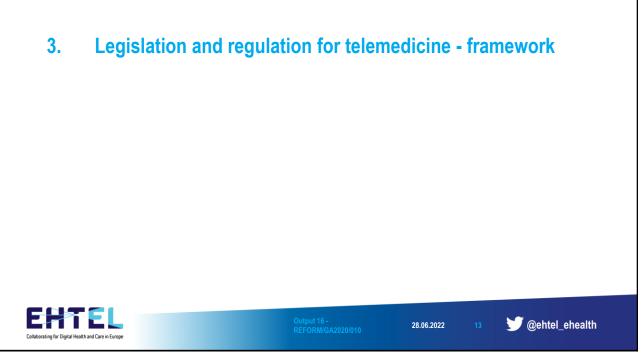


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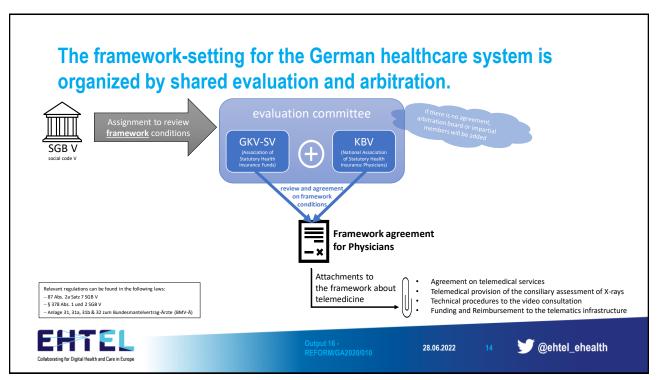
The gematik has become the central national provider of telematics infrastructure. 💻 gematik · The gematik was founded in 2005 by the public healthcare system in order to implement an electronic healthcard in Germany Today, the legal mandate of gematik includes · the introduction, operation and further development of the telematics infrastructure, · the electronic health card and associated specialist services and • so-called other services for communication between healthcare professionals, payers and insured persons. Tasks in particular in accordance with § 311 SGB V : **Relevant regulations:** · Regulation of functional and technical specifications as well as a security concept, § 306 SGB V telematics Defining the content and structure of the data records to be used, infrastructure · Creation of the specifications for the secure operation of the telematics infrastructure, § 311 SGB V tasks of the Society · Ensuring the necessary testing and certification measures for Telematics Defining the procedures for managing legally regulated access authorizations and controlling this access Approval of components, services and providers 💓 @ehtel_ehealth 28.06.2022

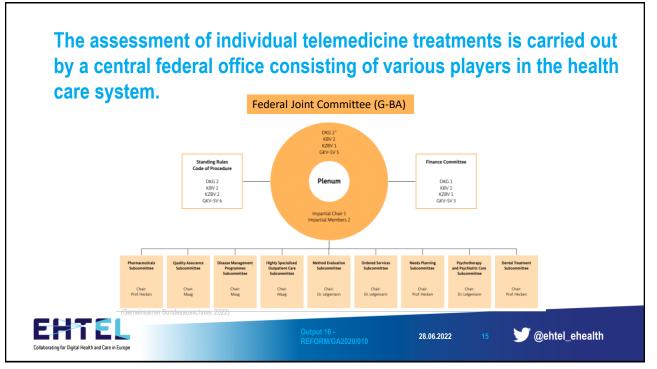












Within the digitalization of the German healthcare system, the BfArM* has recently gained a central role.

- Central regulatory body for
 - · permission, improvement and safety evaluation of pharmaceutical products
 - Risk assessment and evaluation of medical products
- · Approximately 1.350 employees (medicine, pharmacy, chemics, biology, legal, engineering)
- Central gateway for the certification and permission of digital health applications to be prescribed and financed within the SHI

*Federal Institute for Pharmaceuticals and Medical products (BfArM, 2022) Celeborating for Digital Health and Care in Europe Celeborating for Digital Health and Care in Europe 28.06.2022 16 28.06.2022 28.06.202 28.06.202 28.06.2022 28.06.202



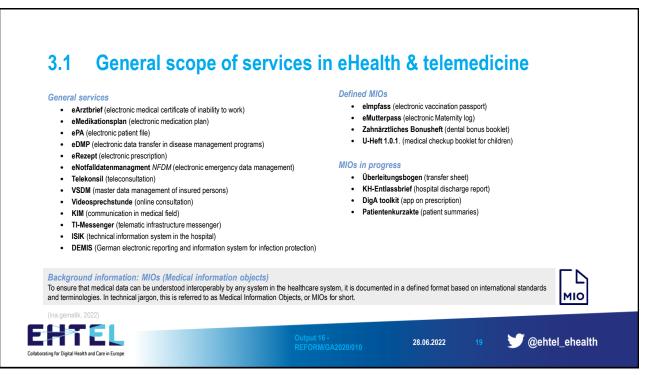
Telemedical methods & terminology: The following categories are not to be understood as completely distinct - there are overlaps and connections.

	eHealth	examples	
eCare	health care	teleconsultation, telemonitoring/remote patient management	
eAdministration	Administrative processes	eGK, eDoctor's card, electronic files, ePrescription	
ePrevention	Prevention	Age-appropriate assistance systems, coaching	
eResearch	Research	Genome research using ICT, Internet trend analyzes (e.g. Google Flu)	
eLearning	Teaching	blended learning via platforms (e.g. ILIAS)	

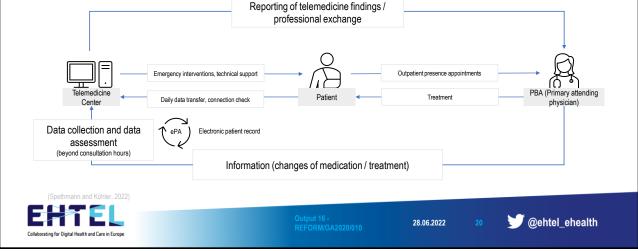
Developed by the AG-Telemedizin and decided by the board of the German Medical Association:

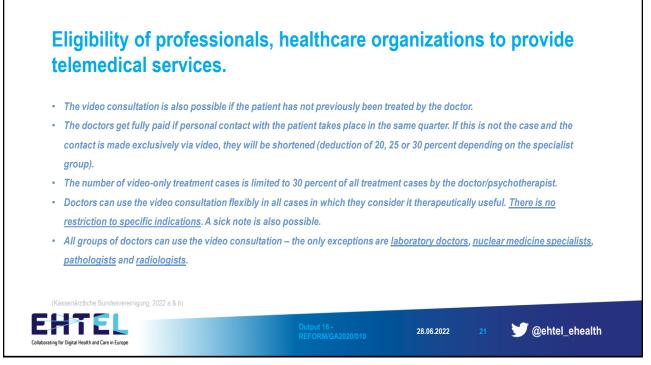
"Telemedicine is a collective term for various medical care concepts have in common the basic approach that medical services of healthcare for the population in the areas of diagnostics, therapy and rehabilitation as well as in medical decision-making advice over physical distances (or time delay) can be provided. Information and communication technologies are used here."



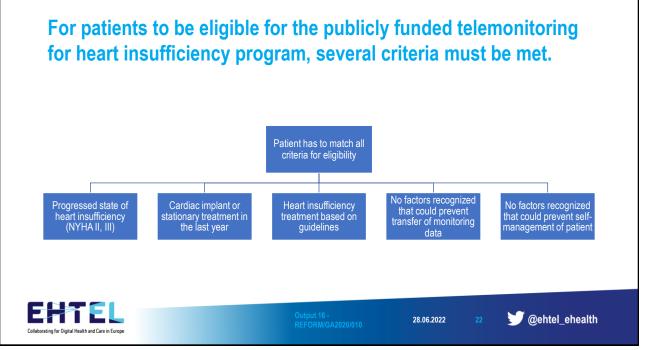


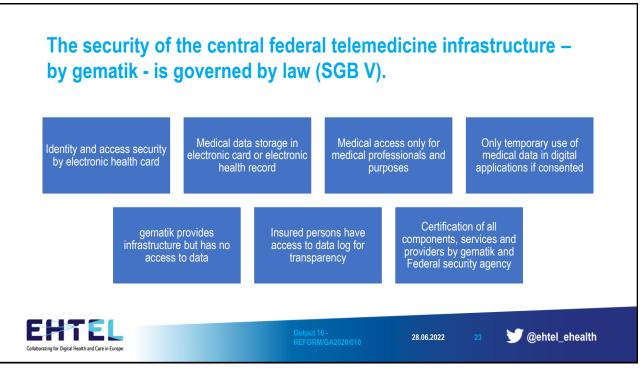








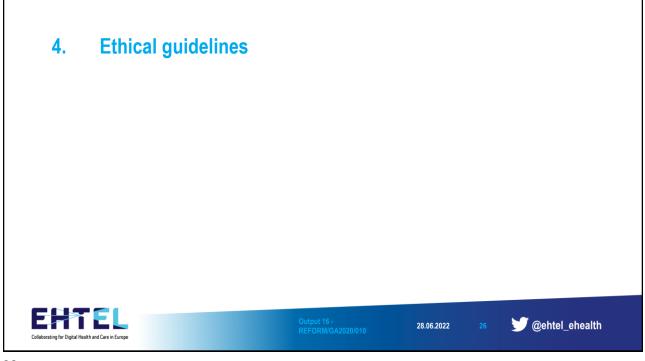




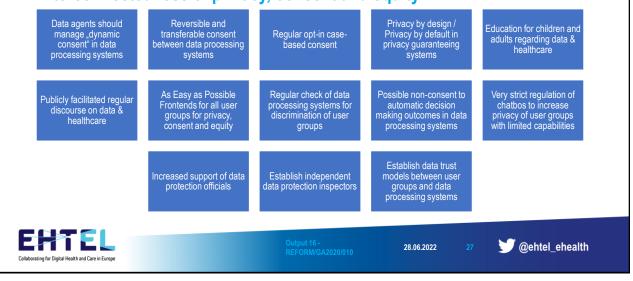
The liability of physicians prescribing telemonitoring of heart insufficiency to a patient is structured by several requirements.

Did the physician maintain Did the physician perform an Did the physician sufficiently medical accuracy in his/her treatment to a level, which is individual case evaluation: Is inform the patient about the telemonitoring appropriate for the defined by the current medical special nature of the telemedical medical status of the patient? scientific standard of the relevant treatment? medical field? Did the physician document that these requirements were fulfilled? 💓 @ehtel_ehealth 28.06.2022 n for Dinital Health and Care in Europe





The German Ethics Council issued a central opinion for ethical guidelines, which should govern "data and healthcare" that show the interconnectedness of privacy, consent and equity.





To account for the immense cost of not using data, <u>new proposals</u> are moving towards opt-out processes of data use.

