

Telematics Infrastructure and Electronic Health Card



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The German Health Care System

- **82.2** million inhabitants
- **86 %** (~70 million) with statutory health insurance
- **113** statutory health insurances
- **102,000** physicians' practices
- **44,500** dentists' practices
- **20,500** psychologists' psychotherapy practices
- **2,000** hospitals
- **20,200** pharmacies
- **1,150** facilities for preventive care/rehabilitation

German Health Care System



The German Health Care System

- **1.48 billion** physician/patient contacts/year
- **4 million** patient/pharmacy contacts/day
- **Ø 45** patient contacts per physician/day
- **5 billion** documents/year

German Health Care System



gematik

gematik's Statutory Task

The Stakeholders



gematik

- Introduction of the electronic health card (eGK) laid down in **Gesetz zur Modernisierung der gesetzlichen Krankenversicherung** (Health insurance modernisation act) (2004)
- gematik founded in January 2005 – responsible for **setting up, operating and developing further the telematics infrastructure (TI)**
- **Competence centre** for TI and eGK in the German healthcare system
- **E-Health Act** came into force on 1st January 2016
- Currently: Approximately 260 IT-, eHealth, project-experts
- Director: Alexander Beyer

Legal Regulations

Sec. 291a SGB V
Elektronische
Gesundheitskarte
(Social Code V
Electronic Health
Card)

Interoperable and
secure telematics
infrastructure

Sec. 291 SGB V
Elektronische
Gesundheitskarte

Sec. 291b SGB V
Gesellschaft für
Telematik
(Telematics
society)

- **Specification**
- **Approval**
- **Responsibility**
for operation



Sec. 291c SGB V
Schlichtungsstelle der
Gesellschaft für Telematik
(Arbitration board of the
telematics society)

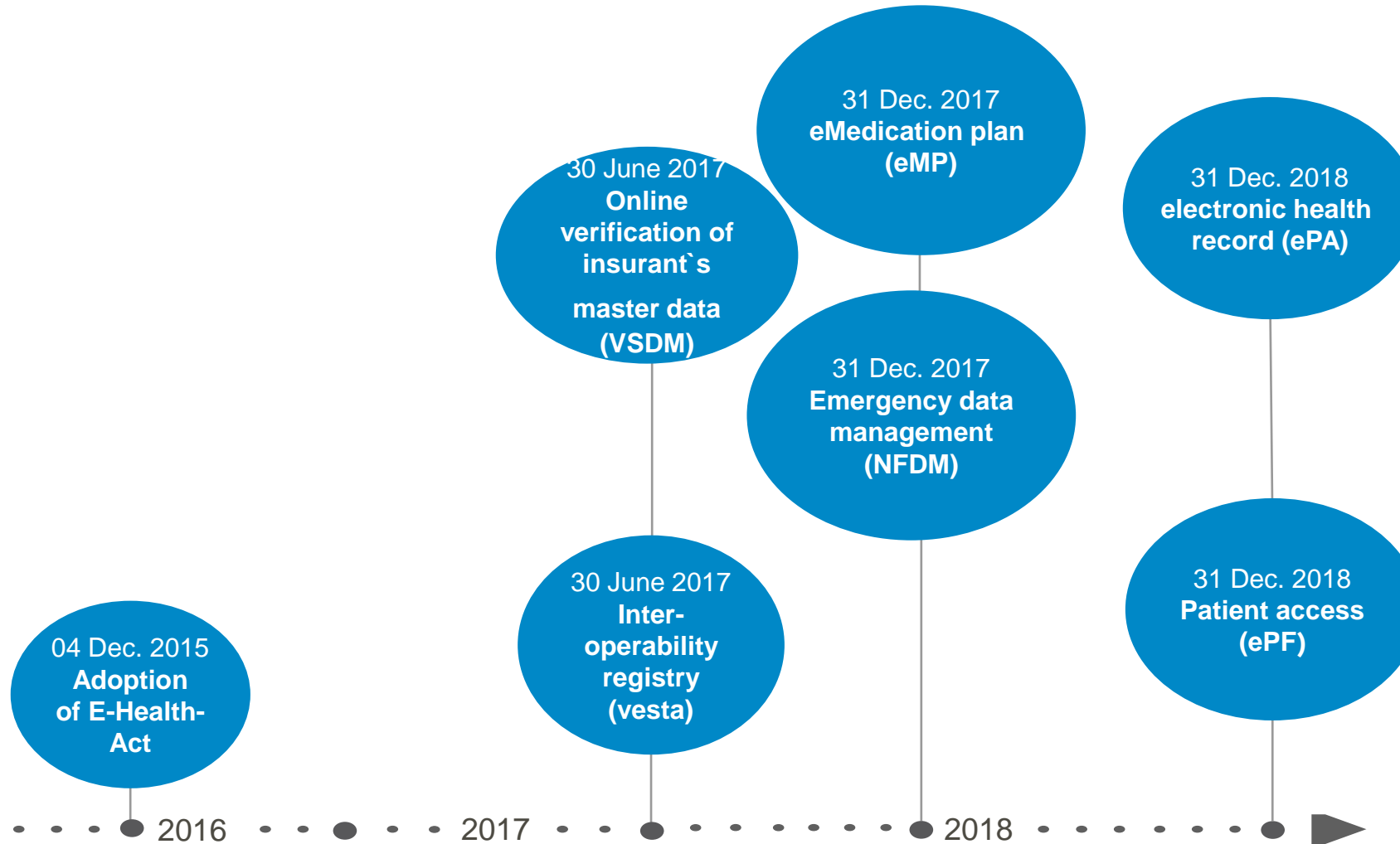
Sec. 291d SGB V
Integration offener
Schnittstellen in
informationstechnische
Systeme (integration of
open interfaces in IT-
systems)

Sec. 291e SGB V
Interoperabilitätsverzeichnis
(Interoperability registry)

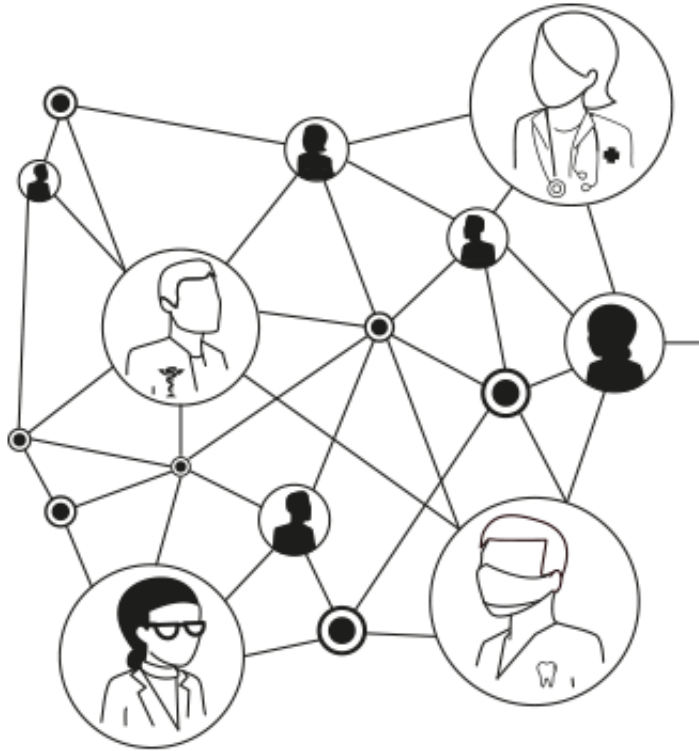
Sec. 291f SGB V
Übermittlung elektronischer Briefe
in der vertragsärztlichen
Versorgung (Transmission of
electronic letters in statutory
healthcare)

Sec. 291g SGB V
Technische Verfahren zur
konsiliarischen Befundbeurteilung
von Röntgenaufnahmen und zur
Videosprechstunde (Technologies
for consultative assessment of X-
ray findings and video-
consultations)

eHealth-Act Introduction Schedule



Telematics Infrastructure - The Most Secure Network for All



TI – Security

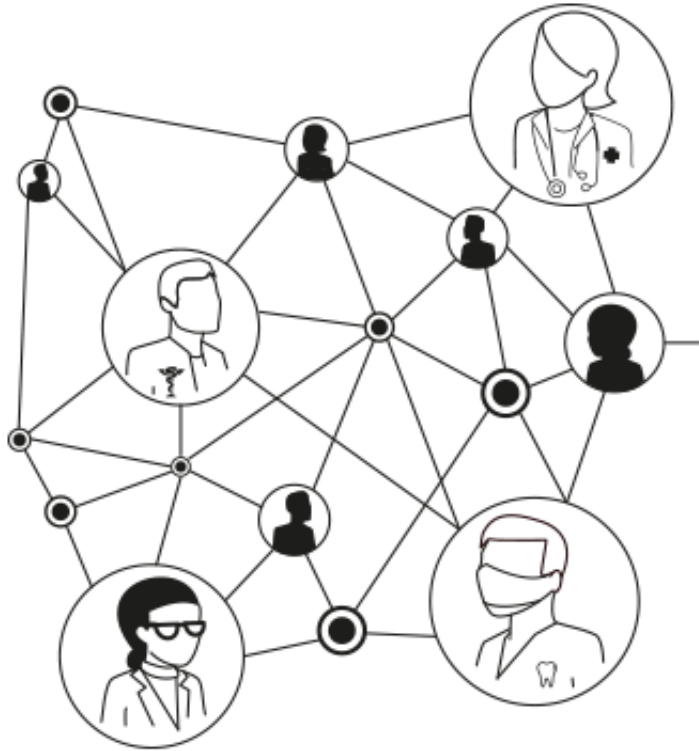
The telematics infrastructure ensures:

- **Data security** by exclusively using approved, interoperable components and defined role concepts
- **Availability** by centrally organised operation
- High **performance** by adhering to commonly agreed standards
- a **nationwide** and **cross-sectoral** platform
- taking into account **patient interests**

Sustainable protection of the investment by:

- using **defined standards** and ensuring **interoperability**
- continuous and coordinated **further development** of the entire platform and its components
- continuous adaptation to **maximise security and data protection measures**

Telematics Infrastructure - Schedule (Phase I)



Schedule (Phase I)

Telematics infrastructure and tests of first applications (Phase I):

- Setting up the telematics infrastructure (TI)
- Management of insured persons' master data (VSDM)
- Secure internet access for all stakeholders in health care (SIS)
- Integration of existing networks (SNK*, ZOD**)

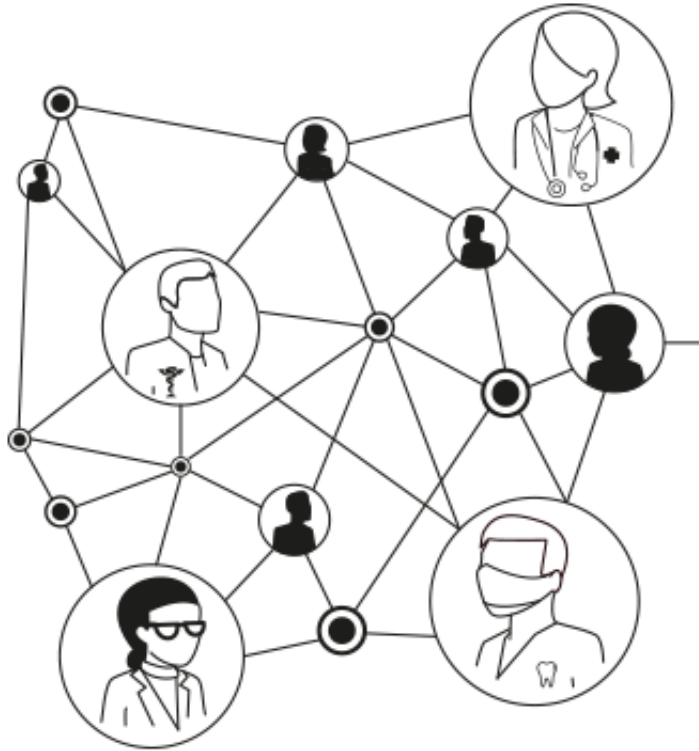
NFDM-Sprint:

Research project for introduction of the special application for emergency data management (NFDM)

*secure network of the health insurances - integration being tested Online-rollout phase 1 (ORS1)

** Dentists Online Germany – Integration being tested ORS1

Telematics Infrastructure - Schedule (Phase II)



Schedule (Phase II)

Planned Applications (Phase II)

- Emergency data management (NFDM)
- Applications of the insurant (AdV)
- eMedication plan (eMP)/
Drug therapy safety (AMTS)
- Migration of health data services in the telematics infrastructure, example: electronic case record (GDD/EFA)
- Organ donation statement (OSE)

Other projects/applications

- Interoperability registry (vesta)
- Further applications and secure transmission of medical documents
- Devices of the insurant (GdV)
- Electronic health record (ePA)/ Patient access (ePF)

eHealth-Act Introduction Schedule

▲ Deadline (sanctions threatened for exceeding)

▲ Adherence to schedule

	2016				2017				2018				2019	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
VSDM														
Measures for introducing VSDM completed (sanctioned) Sec. 291 para. 2b p. 6														
With sanctions threatened for service providers who do not do tests Sec. 291 para. 2b p. 14 (sanctioned) Sec. 291 para. 2b p. 14														
Secure methods for transmitting medical documents														
Specifications for applications for transmitting electronic documents published Sec. 291b para. 1e p. 1														
NFDM														
Measures for introducing NFDM completed (sanctioned) Sec. 291b para. 1 p. 9 (sanction Sec. 291b para. 1 p. 11)														
eMP (AMTS phase 0)														
Measures for introducing eMedication plan completed (sanctioned) Sec. 291b para. 1 p. 10 (sanction Sec. 291b para. 1 p. 11)														
Insured persons have claim to updating of eMP at physician's and pharmacist's (rollout completed) Sec. 31a para. 3 p. 3														
Devices of the insured person														
Concept for integrating devices of insured person in TI Sec. 291b, para. 1 p. 13														

▲ 30 June 2017

▲ 01 July 2018

▲ 31 Dec. 2016

▲ 31 Dec. 2017

▲ 31 Dec. 2017

▲ 01 Jan. 2019

▲ 31 Dec. 2016

eHealth-Act Introduction Schedule

▲ Deadline (sanctions threatened for exceeding)

▲ Adherence to schedule

	2016				2017				2018				2019	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
ePF (Patient folder)														
Measures for introducing electronic patient folder completed Sec. 291b, para. 1 p. 12														▲ 31 Dec. 2018
ePA (Patient file)														
Measures for introducing electronic patient file completed Sec. 291 para. 5c p. 1														▲ 31 Dec. 2018
Preconditions for using the TI														
Publication of the preconditions for using the TI with the corresponding conditions for approval on the internet Sec. 291b para. 1b p. 5							▲ 30 Sept. 2016							
Interoperability index (vesta)														
Existence of rules of procedure Sec. 291e para. 3							▲ 31 Dec. 2016							
Creation of an electronic interoperability index Sec. 291e para. 1										▲ 30 June 2017				
Telemedicine: Video-consultation														
Adjustments of the EBM for video-consultations apply Sec. 291g para. 1 p. 18										▲ 01 July 2017				
Consultative assessment of X-ray findings														
Adjustments of the EBM for consultative assessment of X-ray findings apply Sec. 291g para. 1 p. 18										▲ 01 April 2017				

Thank you!



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