DIGITALIZATION IN THE DENTISTRY SECTOR – SURE, BUT SECURE!
Opportunities with the electronic health card and the telematics infrastructure

European Trade Press Conference IDS Cologne, Jan. 23, 2019

ERLEBEN, WAS VERBINDET.

WELCOME!

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OVERWHELMING SUPPORT FOR DIGITALIZATION!

CED
"Resolution for sharing data in e-health:
Workflow, prescription, and protection"
November 16, 2018

SHI Modernization Act
Introduction of the electronic health card pursuant to section 291a
Social Security Code V (SGB V)
November 13, 2003

KZBV, KBV & ABDA
LETTER OF INTENT
to develop and implement a common digital agenda
January 2018

BMG
"Nursing Staff Reinforcement Act (PpSG)"
Since January 2, 2019

BMG draft bill
TSVG - Appointment Service and Care Act
End of 2018

CED   Council of European Dentists
KZBV   Federal Association for Statutory Health Insurance Dentists
KBV   Federal Association for Statutory Health Insurance Physicians
ABDA   Federal Union of German Associations of Pharmacists
BMG   Federal Ministry of Health

... and there is agreement that patients must be the focus and that the protection of health data is a top priority!

IT TOOK A WHILE, BUT NOW WE'RE GETTING STARTED!

- **Legal definition** to introduce the electronic health card as of October 1, 2006

- **Decision** in favor of nationwide implementation of the **telematics infrastructure**

- Launch of online **live operation** by the industry in late November (first provider approved)

- Subsequent procurement: expiration of certificates in the devices

| 2001 | 2003 | 2005 | 2008 | 2013 | 2017 | 2019 | 2022 / 11 |
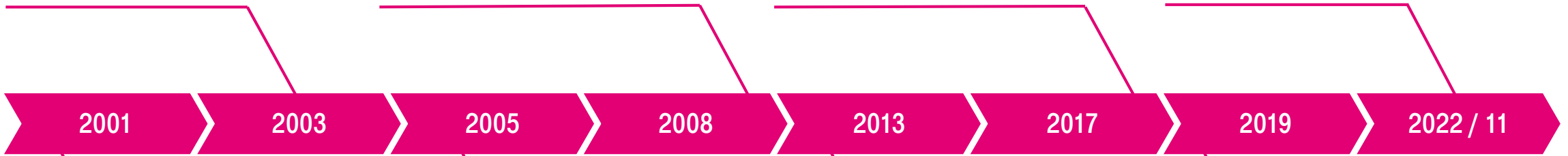
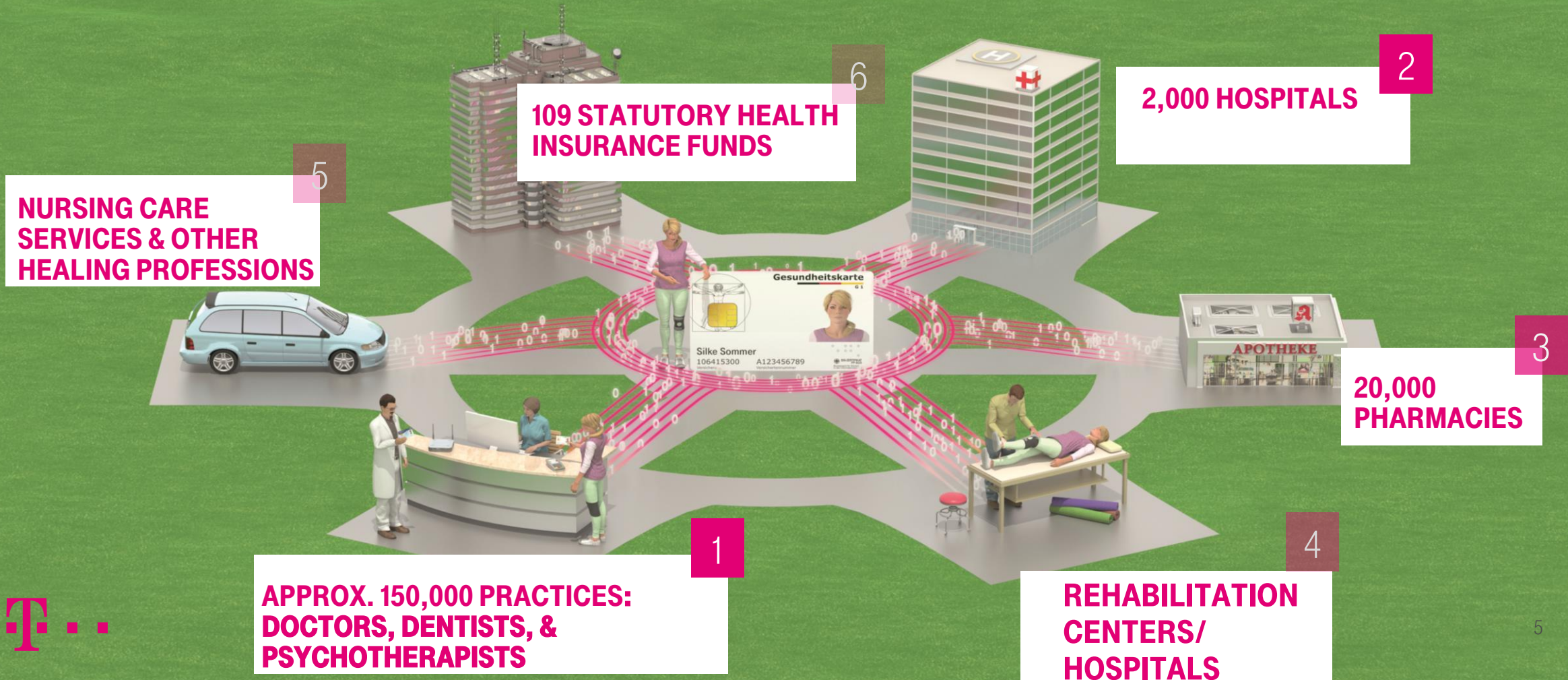- "Lipobay" scandal: **fatal interactions between medications**

- Founding of **gematik**

- Orders placed with industry to **test** the online rollout (stage 1)

- June 30: all **service providers** are **connected** to the telematics infrastructure
- Sanctions for non-participating service providers

THE GOAL IS A STANDARDIZED, SECURE INFRASTRUCTURE FOR THE ENTIRE HEALTHCARE SECTOR: THE TELEMATICS INFRASTRUCTURE!

6 — 109 STATUTORY HEALTH INSURANCE FUNDS

2 — 2,000 HOSPITALS

5 — NURSING CARE SERVICES & OTHER HEALING PROFESSIONS

3 — 20,000 PHARMACIES

1 — APPROX. 150,000 PRACTICES: DOCTORS, DENTISTS, & PSYCHOTHERAPISTS

4 — REHABILITATION CENTERS/ HOSPITALS

Gesundheitskarte
G 1
Silke Sommer
106415300   A123456789

APOTHEKE

5

THE CONNECTION TO THE FUTURE

To get started with the future:
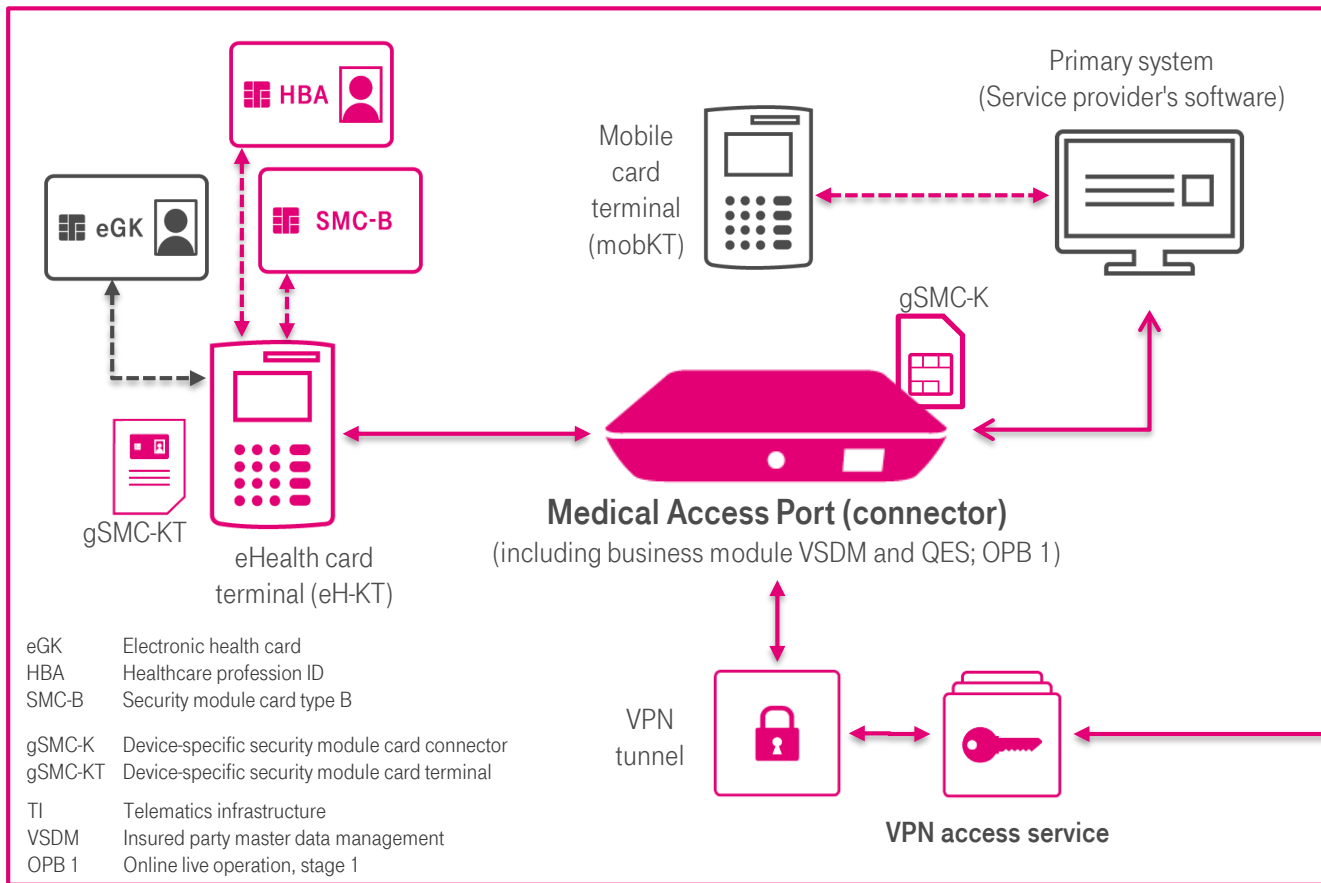THE STARTER PACKAGE

- The connector is the central component for the telematics infrastructure in practice and consists of hardware, including installed Secure Module Card (gSMC-K) and firmware.

- The connector is part of the TI and connects local practice systems with the TI.

- The connector is integrated in the local area network (LAN) and establishes the connection to the TI access network (internet).

- Access to the VPN access service of the TI is necessary to use the online applications of the TI.

- Access to the eHealth card terminal, as well as to the eGK, SMC-B, and eHBA in the local network, is granted exclusively via the connector.
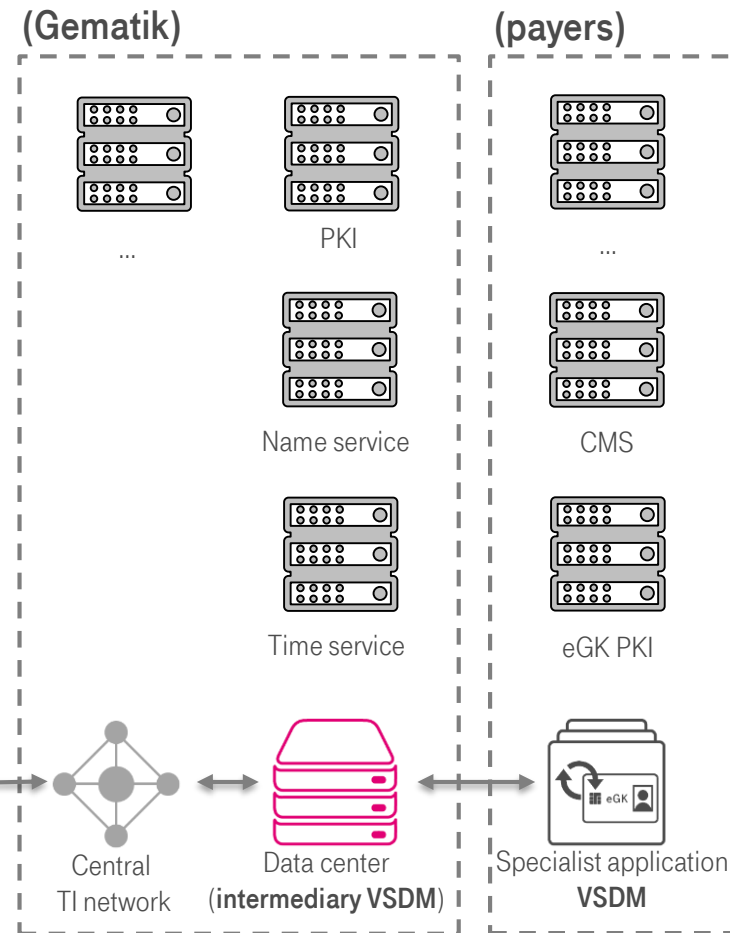
TI OVERVIEW – SECURE INFRASTRUCTURE FOR EXCHANGING & PROCESSING PATIENT DATA

Local components (service provider)

Central components

(Gematik)

(payers)

HBA

eGK

SMC-B

Mobile card terminal (mobKT)

Primary system (Service provider's software)

gSMC-K

gSMC-KT

eHealth card terminal (eH-KT)

Medical Access Port (connector)
(including business module VSDM and QES; OPB 1)

VPN tunnel

VPN access service

Internet

Central TI network

Data center (intermediary VSDM)

...

PKI

Name service

Time service

...

CMS

eGK PKI

Specialist application VSDM

eGK	Electronic health card
HBA	Healthcare profession ID
SMC-B	Security module card type B
gSMC-K	Device-specific security module card connector
gSMC-KT	Device-specific security module card terminal
TI	Telematics infrastructure
VSDM	Insured party master data management
OPB 1	Online live operation, stage 1

FROM STANDALONE SOLUTIONS TO STANDARDIZED PLATFORM

KVs
HI service networks with focus on medical practices

Fitness data
Industry portals, local with user

HI funds / eGA
Different approaches
Doctor acceptance difficult

Communication between applications, solutions, and platforms not transparent or non-existent

Telemedical care
- Regional
- Pilot phase

"Digital" care by family doctor or specialist

Obligatory notifications

Digital **approval processes**
eDirective

eGA   Electronic health record
KVs   Associations of Statutory Health
Insurance Physicians

ERLEBEN, WAS VERBINDET.

OUTLOOK – VALUE-ADDED SERVICES FOR THE FUTURE

- **Secure access** to the healthcare system telematics infrastructure.

- **Common platform** for value-added services and future applications.

- As acceptance and participation by by the various players grow, so does **the potential for new digital business models and methods of care.**
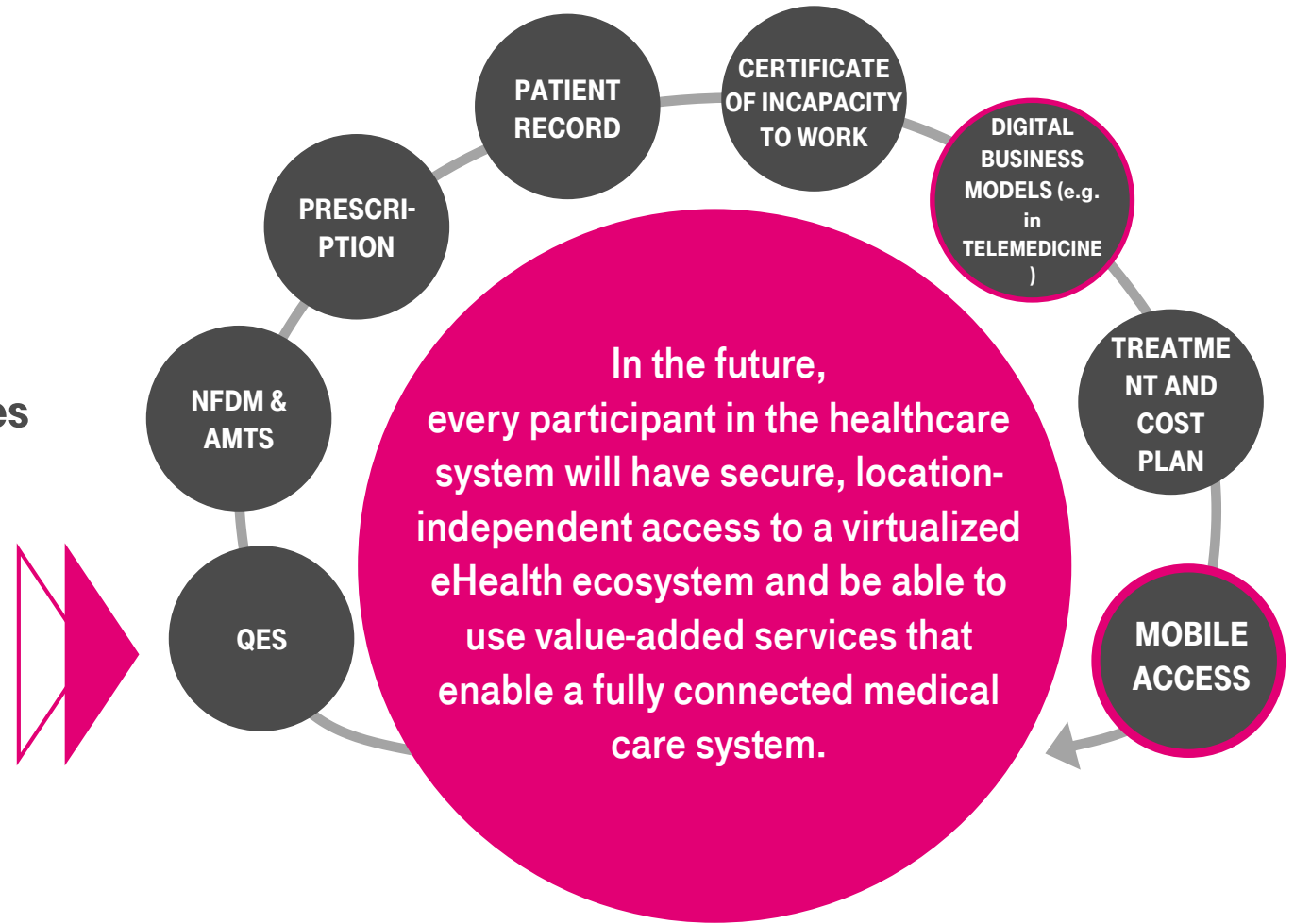
QES   Qualified electronic signature
NFDM   Emergency data management
AMTS   Safety of prescribed medicines

PATIENT RECORD

CERTIFICATE OF INCAPACITY TO WORK

DIGITAL BUSINESS MODELS (e.g. in TELEMEDICINE)

PRESCRI-PTION

TREATMENT AND COST PLAN

NFDM & AMTS

QES

MOBILE ACCESS

In the future, every participant in the healthcare system will have secure, location-independent access to a virtualized eHealth ecosystem and be able to use value-added services that enable a fully connected medical care system.

THANK YOU.
WE LOOK FORWARD TO SPEAKING WITH YOU PERSONALLY.