

The Austrian e-card project

An Overview

Walter M. Bugnar – project manager

The Austrian e-card project - An Overview

Vision of e-card System and Basic Application

Project Figures, Features, System Overview

e-card Project: Multi-Organisation Enterprise

Time Schedule and Rollout Figures

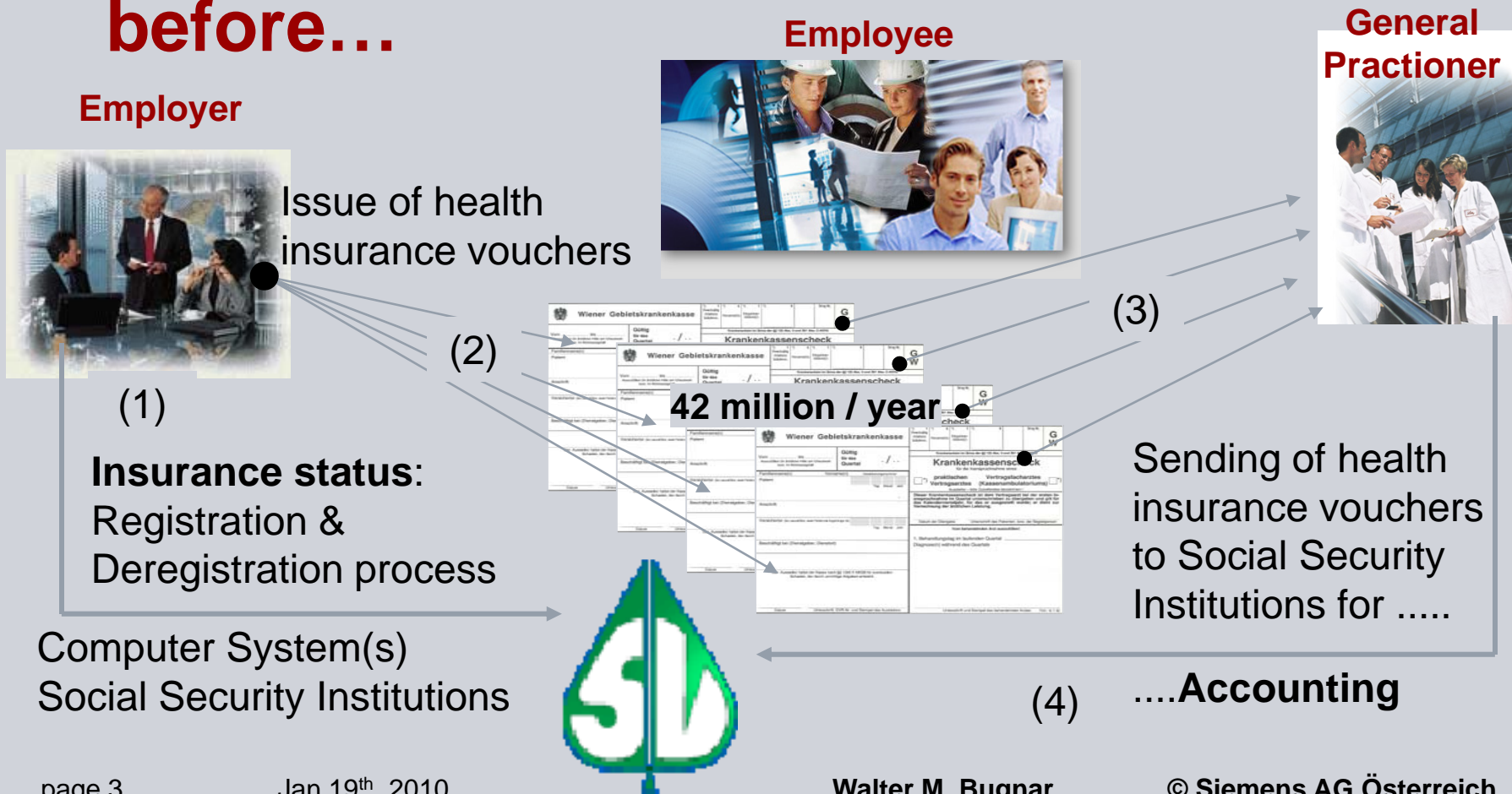
The e-card Project meets Goals

Extended e-card Usage



The Austrian e-card project - An Overview

„Consultation of a Doctor“ ...how it was before...



The Austrian e-card project - An Overview

... then we created a vision: „e-card operates in the fields of e-Social Security, e-Health, e-Government and e-...“

The Austrian e-card project - An Overview

Vision of e-card System and Basic Application

Project Figures, Features, System Overview

e-card Project: Multi-Organisation Enterprise

Time Schedule and Rollout Figures

The e-card Project meets Goals

Extended e-card Usage



The Austrian e-card project - An Overview

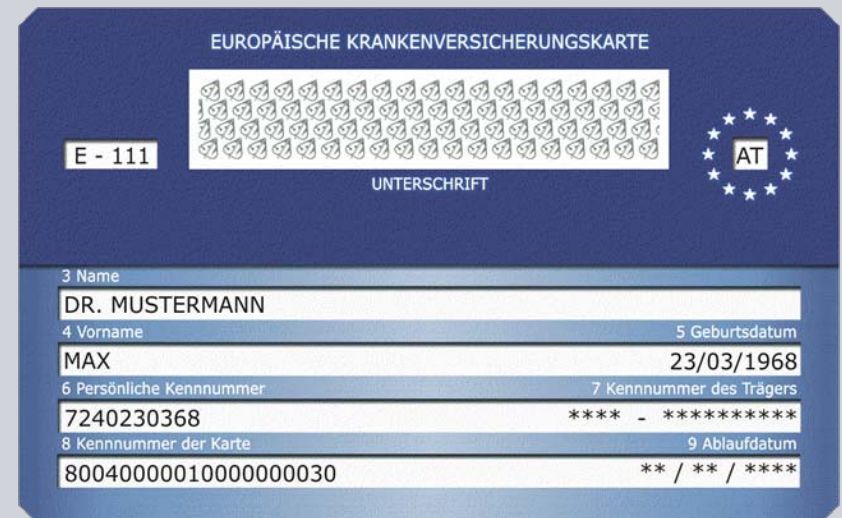
The e-card layout

Front



Back

with European Health Insurance Card



The Austrian e-card project - An Overview

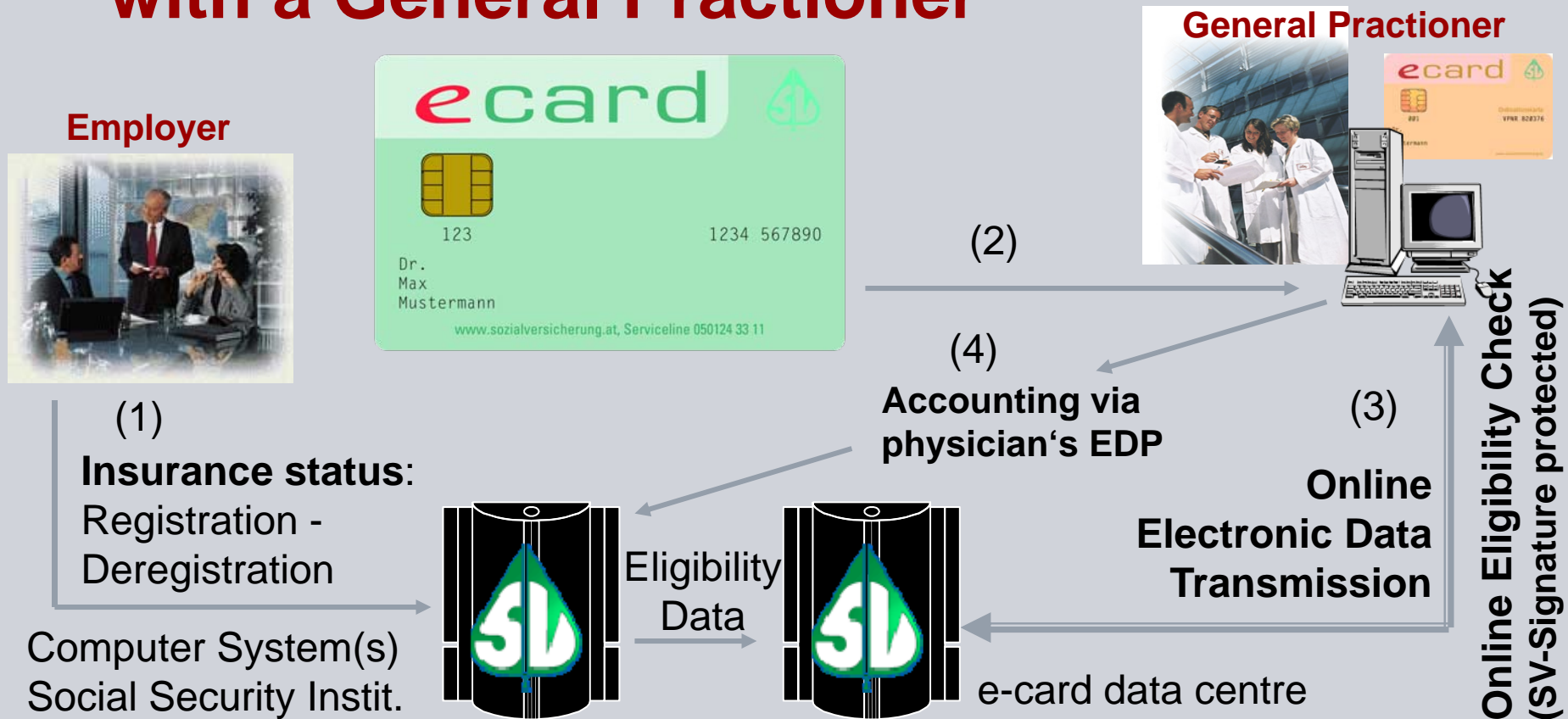
Features of the e-card

- The e-card is a **smart key card** and **signature card** enabling reliable verification of health care entitlements
- The e-card incorporates **2 signature applications** which support
 - Secure Electronic Signatures (for e-gov applications according to SigG and SigV)
 - Social Insurance Signatures
- The e-card stores holder's name, date of birth, sex, social insurance number, card serial number and user group identification
- The e-card is the **European Health Insurance Card**
 - replaces form E-111 for stays abroad
 - valid in the EU, EEA and Switzerland



The Austrian e-card project - An Overview

Result: The e-card Process „Consultation with a General Practitioner“



The Austrian e-card project - An Overview

Advantages of the e-card



Insured



General Practitioner

- Easier access to medical help
- Protection of privacy

- Efficient use of IT
- Minor administration expenses



Employer

- No issue of health care vouchers



Social Insurance

- Reliable verification of entitlements
- Minor administration expenses

Requirements to the Compound System - Government Requirements

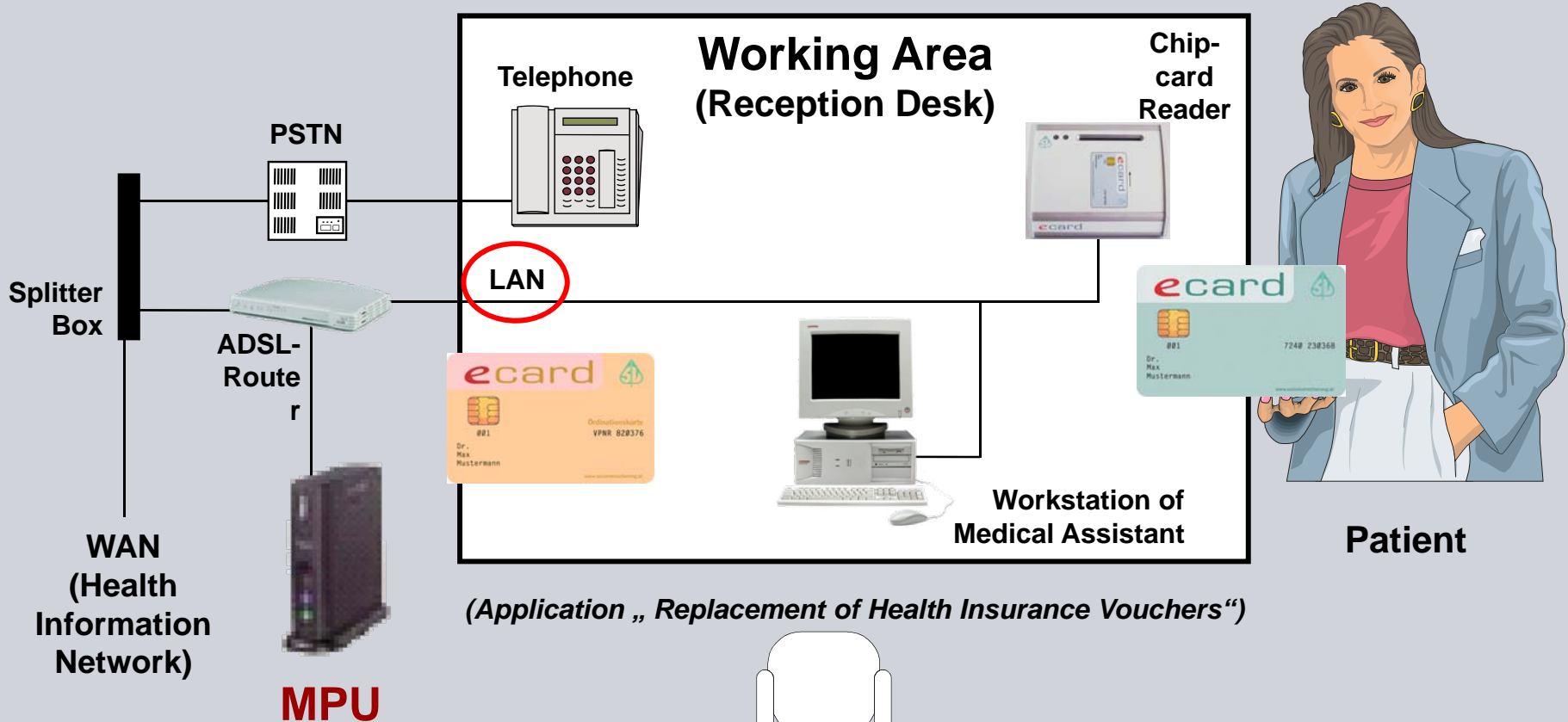
- Design of the e-card as a „Key card“
- Access to personal data after approval of the cardholder (§31a (2) ASVG)
- Reload ability of health data on the smart card
- The e-card system shall support the transparency of medical services and costs
- Acceptance of other cards with „Citizen Card Functionality“ (i.e. prepared for e-government).

Requirements to the Compound System - Openness of the System

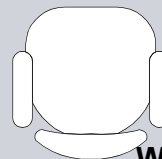
- Modification of „Conditions for Entitlement“- rules:
Requires software-updates by the operating company, which is specifically supported by the online-system
- Load ability of new applications:
Post Issuance Personalization and downloading of data, data structures and cryptographic key-files to the e-card
- Innovation and migration:
Simultaneous operation of several „generations“ of smart cards with different scope of applications

The Austrian e-card project - An Overview

Medical Practice Unit (MPU) and Single Workstation

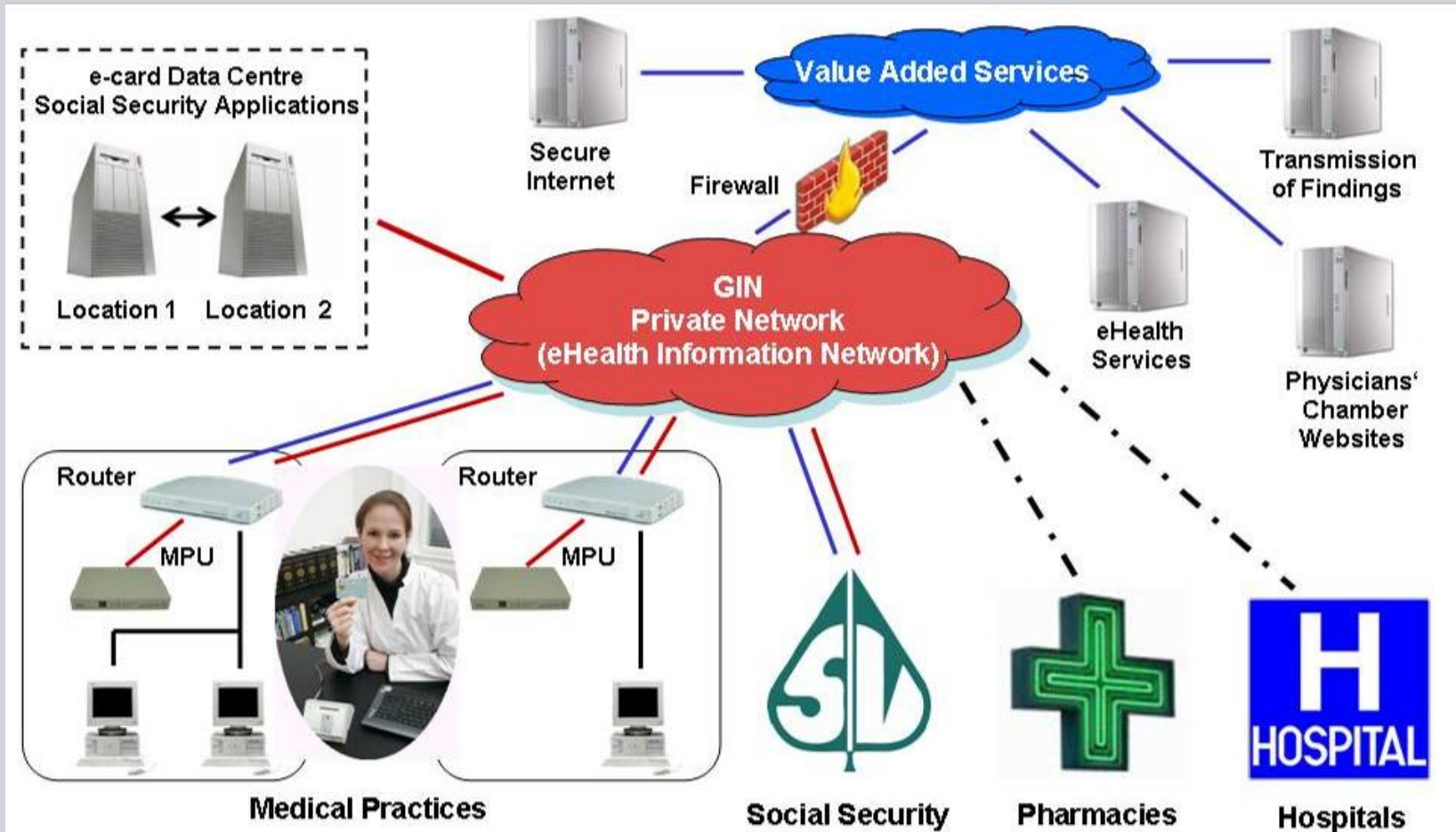


MPU



The Austrian e-card project - An Overview

The e-card network



The Austrian e-card project - An Overview

Risk potential

- **High degree of innovation – technological risks:**
 - **deadline constraints**
 - **multiple applications, open system**
 - **Online system:** max. 5 s response time
 - **high availability:** 99,97 p.a.
 - **Digital signature cards:** 8 Mio. citizens
 - **Implemented** in approximate 12.000 Medical Practices
 - **Network:** consistent Broadband connection (ADSL)
 - **Citizen card functions**
 - domains: **social insurance, e-Health, e-Gov, e-Commerce**
 - **Interoperability** (EU application „eE111“)

- **virgin soil:**
 - **Signature procedure** (algorithms, processes, applications)

- **Diversity of targets:**
 - interest of the political clients changed:
 - „electronic administrative system“ of the social insurance changed to an **infrastructure for e-health & e-government projects**

The Austrian e-card project - An Overview

Vision of e-card System and Basic Application

Project Figures, Features, System Overview

e-card Project: Multi-Organisation Enterprise

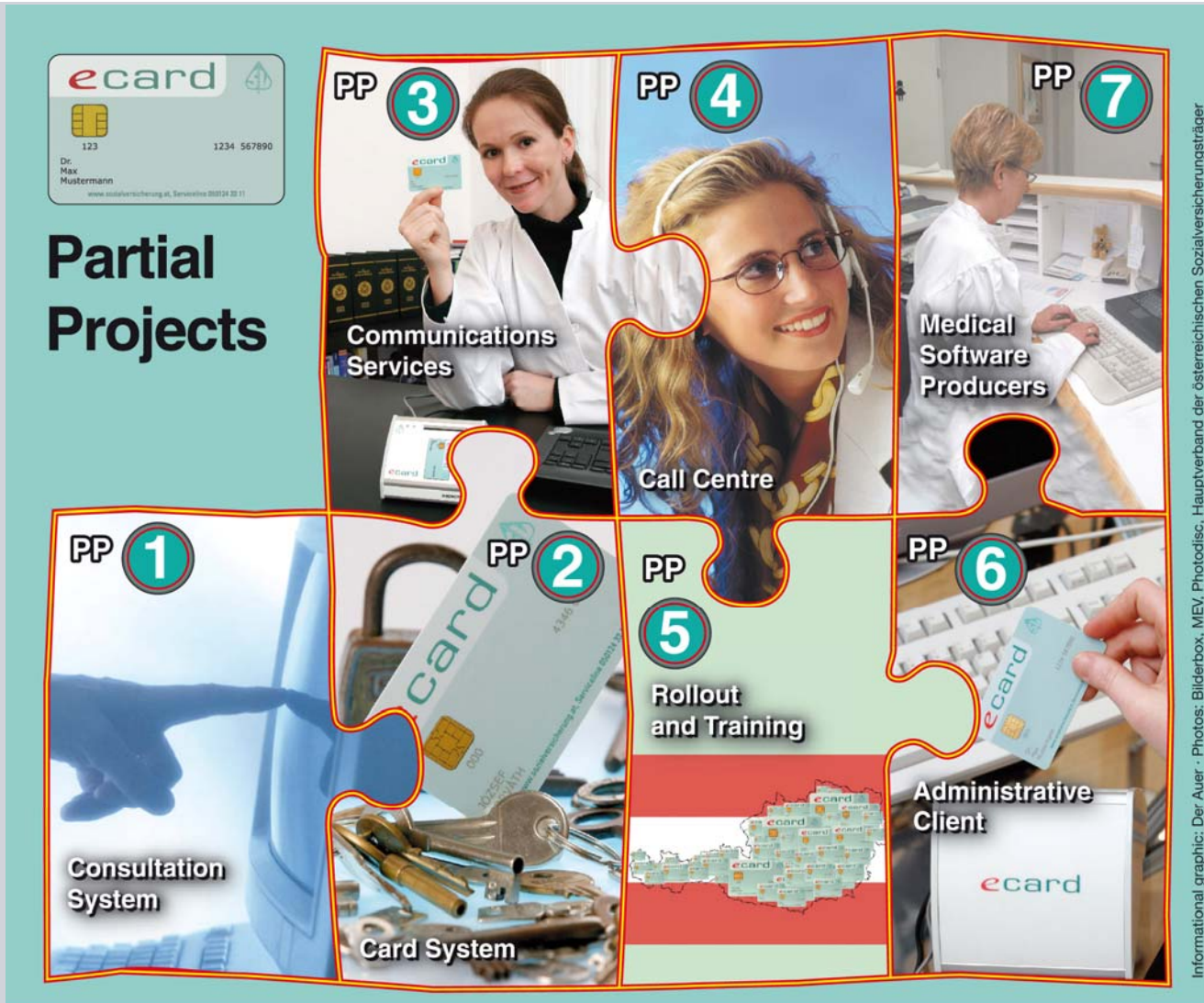
Time Schedule and Rollout Figures

The e-card Project meets Goals

Extended e-card Usage



The Austrian e-card project - An Overview



The Austrian e-card project - An Overview

Nr.	Partial Project	Contractor / Organization	Contract Award
1	Consultation System: Operational Server Centre and Terminal Software	Siemens Business Services GmbH&Co (IBM-Austria GmbH, Telekom Austria AG, Scientific Games Intern. GmbH.)	03.01.2004
2	Card System: Health Insurance Smart Card System and Trust Center Functions	Giesecke & Devrient (Deutsche Post Com, Bell ID e.V., BRZ Austria GmbH)	09.04.2004
3	Communications Services: Data Networks incl. Rollout of e-card IT-Components	Telekom-Provider	---
4	Call Center	Competence Call Center	18.08.2004
5	Training for Personnel dealing with User Interfaces in Medical Practices	Performed by Contractor of TP1	CRQ 07/2004
6	Administrative Client of the Social Security Institutions	Main Association of Austrian Social Security Institutions	---
7	Coordination of Medical Practice Software Providers	Project Management of SVC	---
EPC	External Project Controlling Risk and Requirements Management	ESG Elektroniksystem- und Logistik-GmbH	30.03.2004

At least 15 organizations with substantial contributions

The Austrian e-card project - An Overview

Vision of e-card System and Basic Application

Project Figures, Features, System Overview

e-card Project: Multi-Organization Enterprise

Time Schedule and Rollout Figures

The e-card Project meets Goals

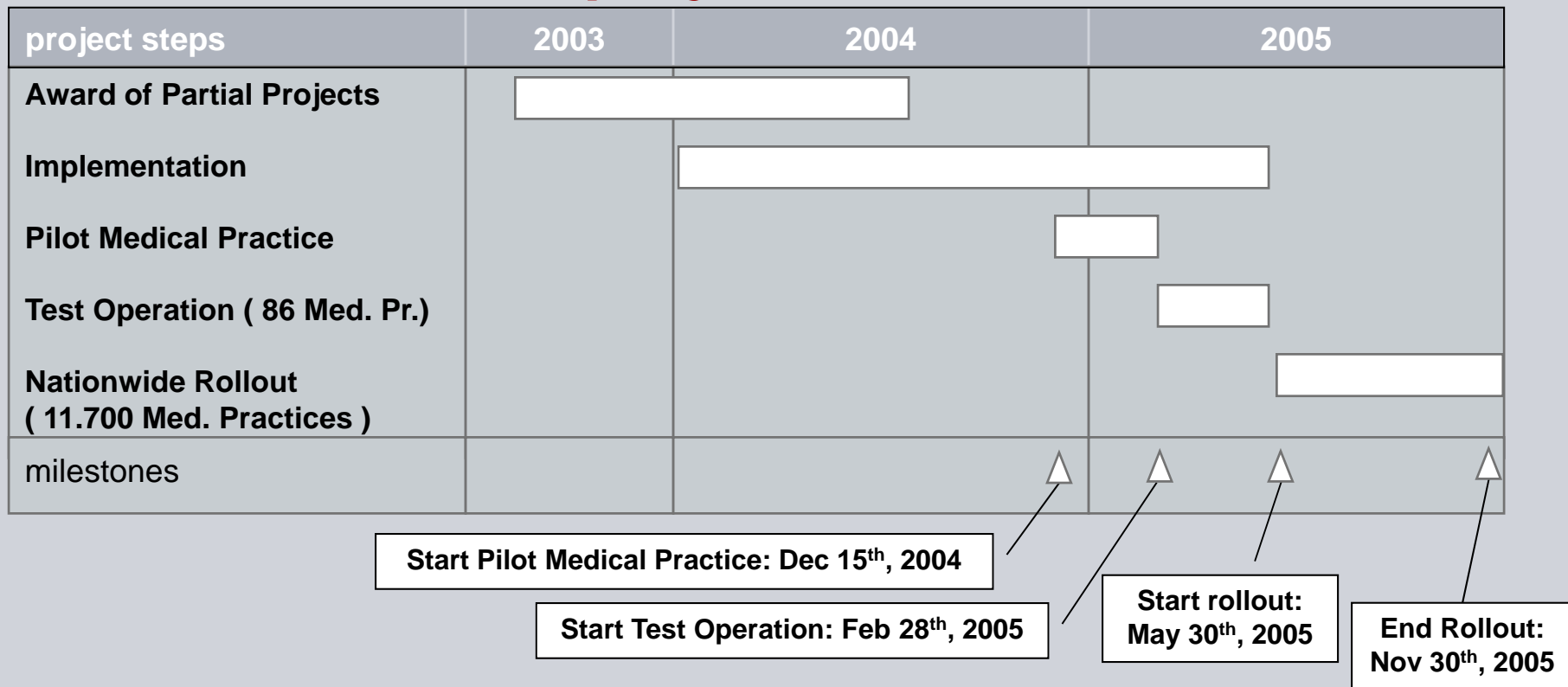
Extended e-card Usage



The Austrian e-card project - An Overview

Scheduled and reached milestones in the project e-card

Dec 31th, 2005
Rollout to 97% takes place



The Austrian e-card project - An Overview

Rollout Figures

	Current Value	Percentage	Planned Value
e-cards shipped	9.024.000	>100,0%	~ 8.200.000
Spare Cards	824.000	11,5%	5% p.a.
e-card Systems installed	11.700	99,4%	~ 11.770
End User Trainings (for Participants)	656 (26.025)	>100,0%	~ 650
MPUs produced	12.500	100%	~ 12.500
LAN Card Readers produced	18.000	100%	~ 18.000
Transactions (Average per day)	320.000 – 590.000	214% – 280 %	210.000 per day
Hotline Calls (Average per year)	605.000		600.000 p.a.
GPs (Average per Day)	400 – 1.100		
Patients (Average per Day)	800 – 1.500		

The Austrian e-card project - An Overview

Lessons learned

- **Modelling of established processes through IT**
 - 1:1 - Modelling deteriorates processes
 - IT functions modifies the processes
 - Reconstruction of current processes is expected
 - Legal framework must be adapted
 - IT-based processes changes the organization

- **Feedback from practice**
 - GUI-adaptation for the eligibility check (very first application)
 - Process optimization by IT potentials
 - Adaptation of the social insurance regulations
 - Performance in the online operation
 - Availability of the system
 - Training concept
 - Escalation strategy
 - Call Centre Processes
 - Telecommunication Provider

The Austrian e-card project - An Overview

Vision of e-card System and Basic Application

Project Figures, Features, System Overview

e-card Project: Multi-Organisation Enterprise

Time Schedule and Rollout Figures

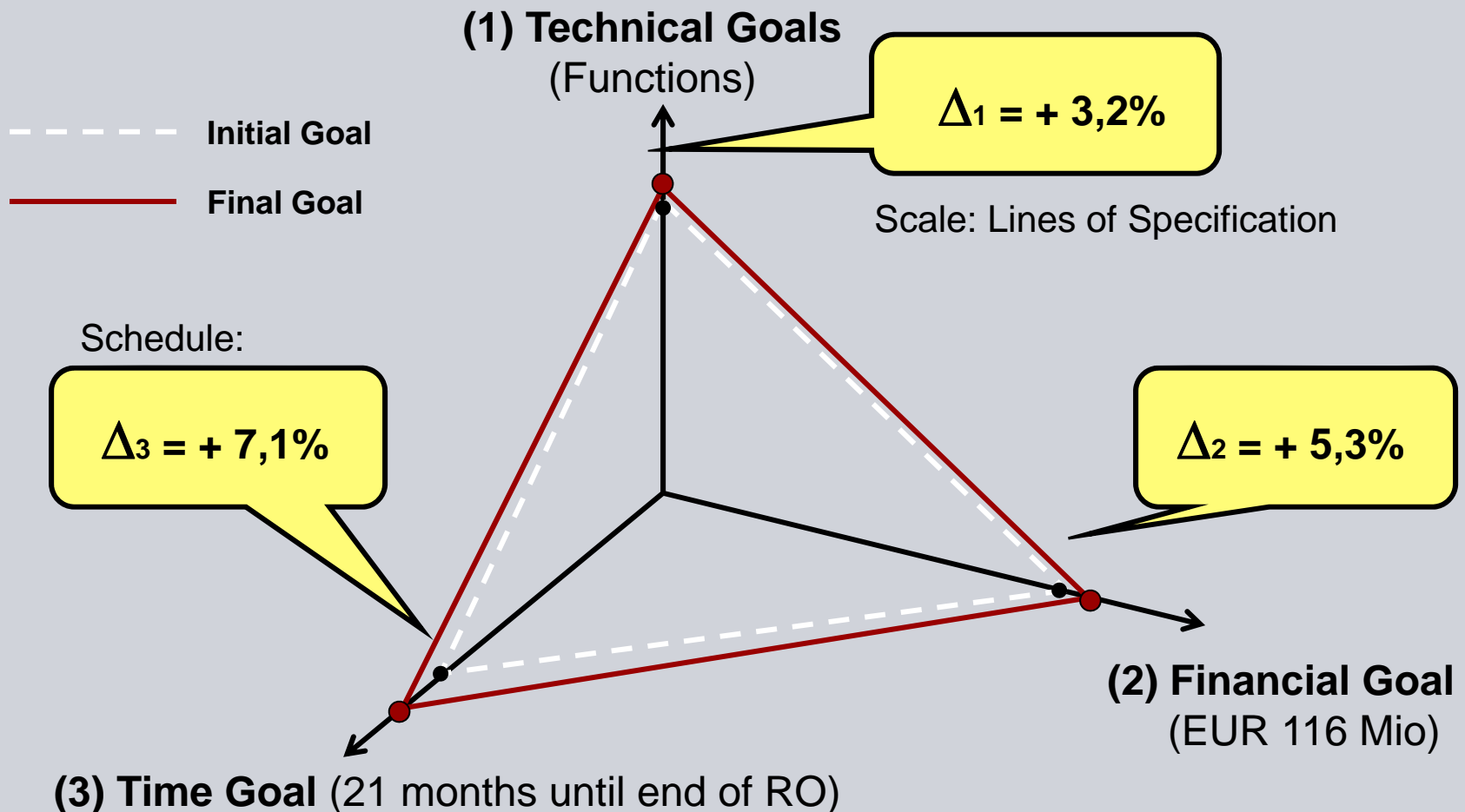
The e-card Project meets Goals

Extended e-card Usage



The Austrian e-card project - An Overview

The e-card Project meets its goals



The Austrian e-card project - An Overview

Vision of e-card System and Basic Application

Project Figures, Features, System Overview

e-card Project: Multi-Organisation Enterprise

Time Schedule and Rollout Figures

The e-card Project meets Goals

Extended e-card Usage



The Austrian e-card project - An Overview

Extended e-card Usage

- e-Social Security
Replacement of all paper based health care certificates
- e-Health
Key card for secure handling of medical transactions
(basic token for eHealth Telematics)
 - Austrian electronic health record (ELGA)
 - e-medication
- e-government
Signature and Encryption Card for all fields of application
with corresponding requirements

SIEMENS

We deliver what we promise.

