

Practical aspects and experience from running hospital information system in the Municipal Hospital in Litomerice





History of the information systems in the Municipal hospital in Litomerice

- Start of implementation HIS – 1993
- Complexity: hospital, ambulances, RDG, biology, hematology, Microbiology, economic and accounting departments and all other departments in the hospital
- expansion 1996 (250 workstations in HIS)



Targets of implementation HIS

- support of health care
- possibility of monitoring offer health care
- monitoring of expenses and productivity
- analyses and solutions
- scheduling and solutions
- support of research
- support of education

SMART CARD HEALTH SYSTEM IN THE CZECH REPUBLIC

Project MACHA

Chip card in health care,
health insurance and
social security



Health Card Project "MACHA"

Objectives of the Pilot



- ☐ Optimal ID procedures
- ☐ Data structure
- ☐ Smart card facilities (security)
- ☐ European harmonization and interoperability
- ☐ Acceptance of cards
- ☐ Cross-sector infrastructure

PARTICIPANTS

- ORGA Consulting GmbH
- Ministry of Health of the Czech republic
General Health Insurance Office
- private companies: APROKS Ltd
IMA Ltd
- international and local experts
- Municipal Hospital in Litoměřice,
private physicians and pharmacists (pilot sites)
- 6 sw houses

Health Card Project "MACHA"

Project Phases



Phase I : 1996-97 Basic functionality

- health care (data set)
- health insurance

Phase II : 1998-00 Extension

- social security
- pharmacy
- electronic signature
- security evaluation



OVERVIEW OF HISTORY-phase I

- preparative part**
- determination data structure**
- locate setting base of patient,holders**
- personalisation a distribution chip cards**
- secure security of data**
- development of program package**
- implementation of data terminal in pilot site**
- initialization and verification**



OVERVIEW OF HISTORY-phase II

- involvement of the data of national social security system into data structure**
- adjustment of data structure on chip cards**
- involvement of remedy (prescription) into data structure**
- electronic signature**
- expansion of number of holders of the chip cards and the number of general practitioner**
- building and introduction of the reception desk in the Municipal hospital in Litomerice**

Health Card Project "MACHA"

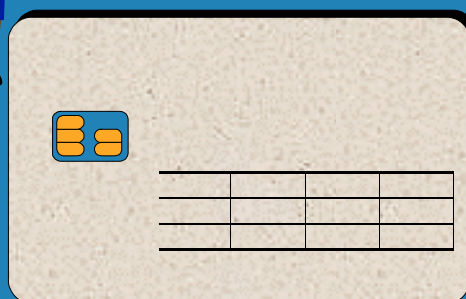
The trial card



Health Card Project "MACHA"

Data structure

Insuree's and patient's identification data

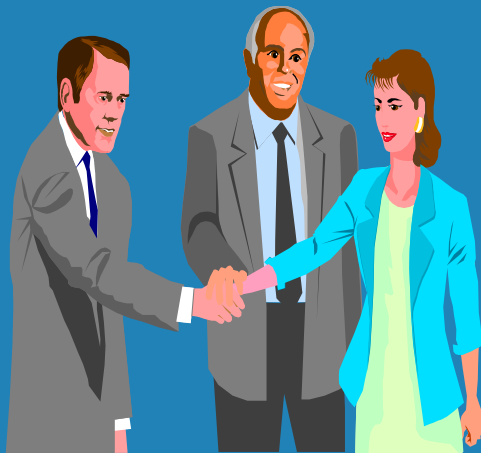


Medical and
emergency data

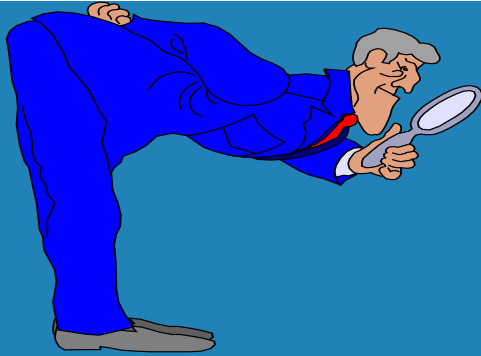


Health / insurance administrative data

KINDS of co-operating PHYSICIANS



• General physicians	... 4
• pediatry	... 4
• psychiatry	... 1
• stomatology	... 9
• oftamology	... 1
• diabetology	... 1



RESULTS - 1

● Health Cards

- 27.000 patient cards
- 100 health professional cards
- 1 personalisation equipment

● Infrastructure

- 6 health card readers station in MHL
- 19 health card readers by physicians
- 4 health card readers at pharmacies
- 2 stand alone card readers in ambulances
- 3 information kiosks



RESULTS - 2

⚙ DATA STRUCTURE

- 3k memory space
- 6 data blocks:
- ✓ health insuree 's identification data
- ✓ health insurer 's administrative data
- ✓ citizen 's identification data for social insurance administration
- ✓ medical date of patient
- ✓ security data

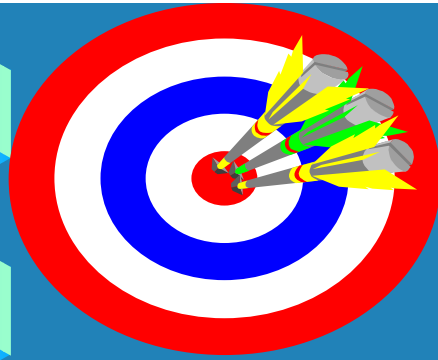
⚙ SOLVED TASKS

- personalisation of patient cards
- physician 's sw adaptation for cards
- hospital information sw adaptation for cards
- electronic signature
- electronic prescription
- kiosks in hospital and GHIO



eHealth 2003 - Telematics in Health Care

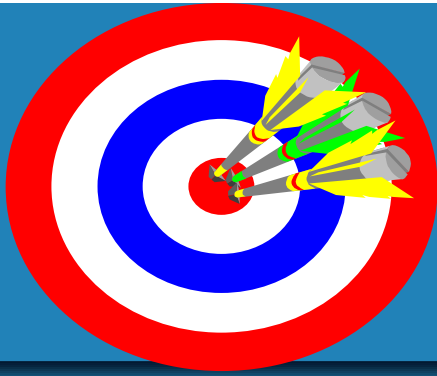
Dresden, October 21st - 23th 2003



PLANS for FUTURE - 1

A / RUNNING PROJECT

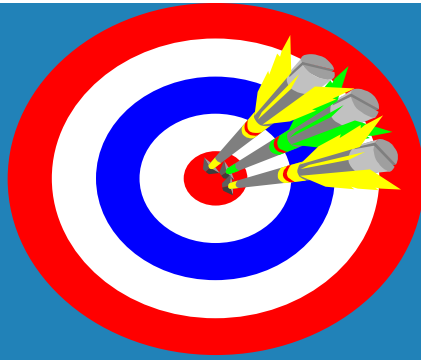
- ⊗ regular evaluation of the running project
- ⊗ step by step expanding of the infrastructure to cover whole city
- ⊗ review of cards function at pharmacy



PLANS for FUTURE - 2

B/ DEEPER SOLUTION OF THEMAS

- immunisation passport
- review of medical data set
- security and data protection
- multifunctionality of health cards



PLANS for FUTURE - 3

C/ STRATEGY for NATIONAL - WIDE IMPLEMENTATION

- institutionalization of MH and GHIO co-operation
- preparation of the Board of co-operating institutions
- organisation of serial of promotion events



Thank you
for your attention

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www.nemocnice-lt.cz