ISfTeH | International Society for Telemedicine & eHealth
NGO in Official Relations with WHO

World Academy of Biomedical Sciences and Technologies Paris, UNESCO 1997

MAGYAR TELEMEDICÍNA ÉS E-HEALTH EGYESÜLET

*Telemedicine and Remote Patent Monitoring model study in Hungary, co-operation among ICT industry, local SMEs and healthcare institutions*

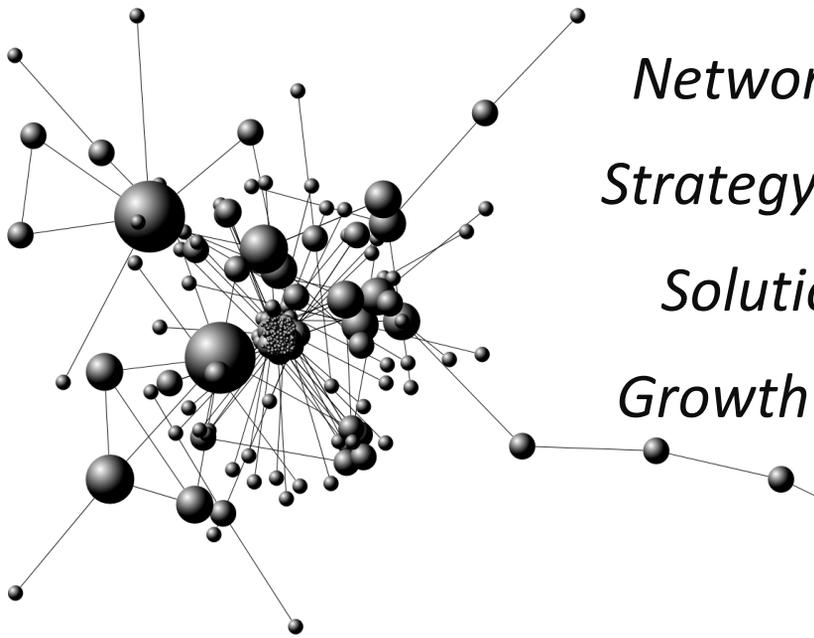MAGYAR TELEMEDICÍNA ÉS E-HEALTH EGYESÜLET

# *Mission*

*Strategy*

*Preven*

*GOVER*

*Telemedicine case study in Hungary*

Microsoft®
HealthVault®

MAGYAR TELEMEDICÍNA
ÉS E-HEALTH EGYESÜLET

*Why?*

*Network*

*Strategy*

*Solution*

*Growth*

*Network*

*Strategy*

Developer

*Role of the Hungarian and Swedish SMEs*

# *Multiplayer solutions*





# *Prevention case study in a Hungarian mulicipality*



1. *Bidirectional on-line communication*
2. *Screenings to the population*
3. *Preventing deaths caused by stroke*
4. *Decreasing the number of deaths*
5. *Active participation on (sport) programs aiming to improve health*
6. *Extension of the asymptomatic period by lifestyle counseling*

# R & D case study in Hungary

*Universities*
*Developers*

## Efficient Development of Telemedicine Applications with Code Generation

Model-driven development and code generation useful in telemedicine related projects

TABLE I.     COMPARISON OF DEVELOPMENT TIME IN MANUAL- AND CODE GENERATION SUPPORTED DEVELOPMENT

| Layer | $t_m$ | $t_{cg}$ | $t_{cg}/t_m$ (%) | Total time spent (%) |
|---|---|---|---|---|
| Domain model | 0.1 | 0.02 | 20 | 5 |
| DAO layer | 3 | 1 | 33 | 10 |
| CRUD user interfaces | 10 | 0.2 | 2 | 50 |
| Authentication, authorization, auditing | 20 | 0.2 | 1 | 15 |
| Data visualization | 3 | 1 | 33 | 10 |
| System integration interfaces | 3 | 1 | 33 | 10 |

The applicability of our tool in one specific telemedicine application whose goal is to monitor **patients after heart surgery**.

Code generation significantly **facilitated and accelerated the development** of the application and resulted in an easily maintainable source code which only requires refinement according to the problem specific needs.

The measurement of development time requirement showed **that code generation can reduce development time with 80% compared to manual development time**.

**MAGYAR TELEMEDICÍNA ÉS E-HEALTH EGYESÜLET**

*We can assist in finding the best market opportunities*

*Network*
*Strategy*
*Solution*
*Growth*

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**MAGYAR TELEMEDICÍNA ÉS E-HEALTH EGYESÜLET**

*Thank you for your attention!*

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