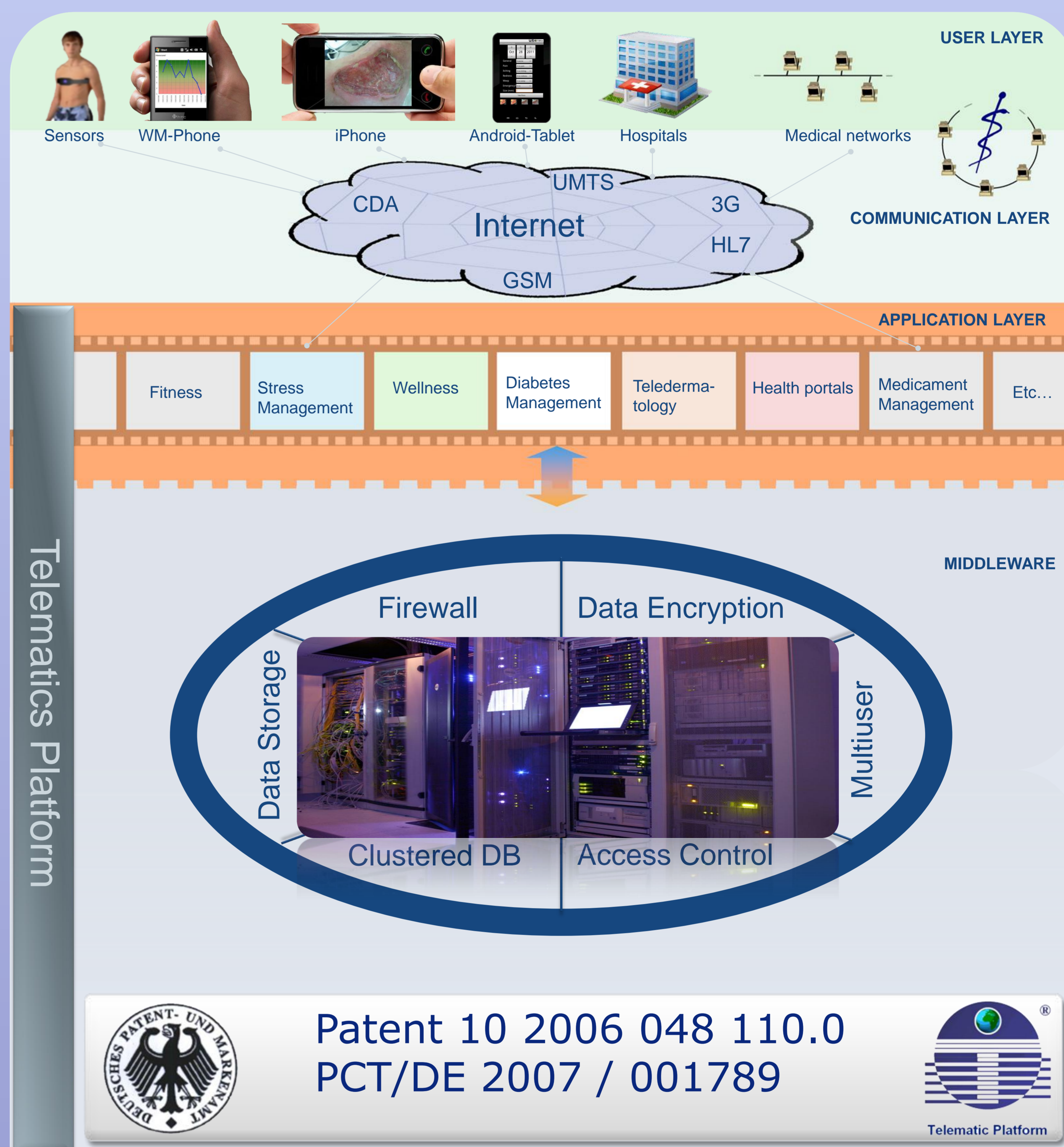


Objectives

Involving information and communication technology in health solutions has shown to raise satisfaction for both health care providers and patients. This appears to be the suited solution for reaching an economically and socially viable solution to the increasing number of chronically ill patients which is currently stressing the healthcare systems. However, security and privacy issues have to be given more attention in most of the implementation environments. This poster introduces an innovative Telematics Platform suited for the implementation of mobile health solutions.

Features and architecture of the Platform

- ➔ High performance: multiprocessor/ multicore technology
- ➔ Implementation for 32-bit and 64-bit architectures
- ➔ Optimal load sharing though clustering
- ➔ Universal and transparent data storage
- ➔ Data security and privacy (anonym, encryption, session models, authentication)
- ➔ Integrated user hierarchical model (e.g. Admin→Center Admin→Doctor→Patient)
- ➔ Visual presentation of data for online web-based portals
- ➔ Flexible Interfaces to third-party applications
- ➔ Connection of mobile applications (Android, WM, Java and iPhone-based)
- ➔ Hosting of telemedical applications (Diabetes/Dermatology/Fitness/Stress, etc...)
- ➔ Scalable and extension ability of its core functionalities



Conclusion

The developed middleware covers not only common functions such as authentication, Authorization and user management, but also flexible interfaces to medical care software, easy connection of mobile applications and integration of the user hierarchical management adapted for the administration system of several hospitals, doctors and patients. Thus, patients are continuously monitored while not being disturbed in their mobility and every-day-activities. The implementation of a number of telemedical and e-Health solutions such as (M-Diab, M-Skin, M-Stress, M-Fitness and fearless/AAL) has been performed successfully on this Platform.