



Intelligent Healthcare Monitoring based on a Semantic Interoperability Platform

Fact Sheet





SAPHIRE

Grant agreement ID: 027074

Project website <a>C

Status

Closed project

Start date

1 January 2006

FP6-IST

Funded under

Overall budget € 2 917 016

EU contribution € 2 040 775

Coordinated by
MIDDLE EAST TECHNICAL
UNIVERSITY

Turkey

Project description

Strengthening the integration of the ICT research effort in an enlarged Europe The SAPHIRE project aims to develop an intelligent healthcare monitoring and decision support system on a platform integrating the wireless medical sensor data with hospital information systems. In the SAPHIRE project, the patient monitoring will be achieved by using agent technology where the "agent behavior" will be supported by intelligent clinical decision support systems which will be based on computerized clinical practice guidelines, and will access the patient medical history stored in medical information systems through semantically enriched Web services to tackle the interoperability problem. In this way, not only the observations received from wireless medical sensors but also the patient medical history will be used in the reasoning process of the clinical decision support system. Furthermore, through a graphical tool to be developed, while modeling the clinical decision processes, it will be possible to exploit the available computer-interpretable guideline models.

End date

30 June 2008

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The intelligent healthcare monitoring system will be deployed through two pilot applications, one for homecare monitoring of cardiovascular patients in Germany; the other to monitor cardiovascular patients in a hospital in Romania. To subscribe to critical data delivery, clinicians will simply use a Web-based program indicating desired alerts, thresholds, delivery methods (sms/e-mail/Web/pager) or to build a patient coverage list. Once subscribed, clinicians will immediately receive clinical notifications and reminders.

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stored in medical information systems through semantically enriched Web services to tackle the interoperability problem. In this way, not only the observations received from wireless medical sensors but also the patient medical history will be used in the reasoning process of the clinical decision support system. Furthermore, through a graphical tool to be developed, while modeling the clinical decision processes, it will be possible to exploit the available computer-interpretable guideline models. The intelligent healthcare monitoring system will be deployed through two pilot applications, one for homecare monitoring of cardiovascular patients in Germany; the other to monitor cardiovascular patients in a hospital in Romania. To subscribe to critical data delivery, clinicians will simply use a Web-based program indicating desired alerts, thresholds, delivery methods (sms/e-mail/Web/pager) or to build a patient coverage list. Once subscribed, clinicians will immediately receive clinical notifications and reminders. Creating such an information infrastructure requires safeguards to maintain security and privacy of patient data. The SAPHIRE Project proposes comprehensive security and privacy mechanisms to complement the infrastructure proposed. While providing these confidentiality and privacy mechanisms, the EU directives presenting the general principles of processing of personal data will be taken into account.

Programme(s)

Topic(s)

Call for proposal

FP6-2004-IST-4

Funding Scheme

STREP - Specific Targeted Research Project

Coordinator



MIDDLE EAST TECHNICAL UNIVERSITY

Address Activity type EU contribution

Inonu Avenue Higher or Secondary € 494 640

06531 Ankara Education Establishments

Participants (7)

Turkey



SCHUECHTERMANN-SCHILLER'SCHE KLINIKEN BAD ROTHENFELDE VERWALTUNGSGESELLSCHAFT MBH

Germany

EU contribution

€ 111 668

Address Activity type

Ulmenallee 5-11 Other

49214 Bad Rothenfelde



OFFIS E.V.

Germany

EU contribution

€ 493 200

Address Activity type

Escherweg 2 Research Organisations

26121 Oldenburg



CYBERFAB SARL

France

EU contribution

€ 235 507

Address Activity type

58 Place De La Faita

38920 Crolles

Other



ALTEC INFORMATION AND COMMUNICATION SYSTEMS AE



EU contribution

€ 183 800

Address

Patmou 12

15123 Maroussi - Athens



SPITALUL CLINIC DE URGENTA BUCURESTI-FLOREASCA

Romania

EU contribution

€ 193 860

Address Activity type

8 Calea Floreasca Sector 1

014461 Bucharest



SOCIETATEA COMERCIALA PENTRU CERCETARE, PROIECTARE SI PRODUCTIE DE ECHIPAMENTE SI INSTALATII DE AUTOMATIZARE

Other

Other

Romania

EU contribution

€ 180 800

Address Activity type

B-dul Mircea Eliade 18

71295 Bucharest



TEPE TEKNOLOJIK SERVISLER ANONIM SIRKETI

Turkey

EU contribution

€ 147 300

Address

Beytepe Koyu 5 06533 Bilkent Ankara

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