

Mobile Personal Health Application for Empowering Diabetic Patients:

The Case within EMPOWER Project

Dr Ilias Lamprinos

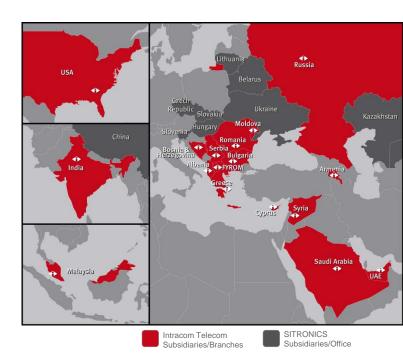
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Short Company Profile



- A Recognized International Telecommunication Systems Vendor operating in EEMEA, CIS and APAC
- > 35 years experience in the telecoms market
- Strong regional presence throughout EMEA
 - Operations in 16 countries
 - Exports to over 50 countries
- Revenue 2011 (Group): €255 million
- Over 2,000 employees in Greece and abroad
- Advanced R&D and Production facilities
- Core Business Offerings:
 - Wireless Network Systems
 - Telco Software
 - Services
- Major Shareholders: Intracom Holdings & SITRONICS







Product Portfolio



BROADBAND SYSTEMS	TELCO SOFTWARE	ICT SERVICES & SOLUTIONS
 Packet MW Radio Platform (OmniBAS™) Point-to-Multipoint Wireless Platform (WiBAS™) Wireless Broadband Access, WiMAX (OmniMAX™) Hybrid (ETH/TDM) MW Radio Systems (INTRALINK™) E-Band Packet Radio (UltraLink™) Multiservice Access Node, DSLAM (iBAS™, FASTmux™) Universal Service Access Platform (IAS-W™, OmniRural™) Monitoring & Network Management Systems (uni MS™) 	 IPTV & Digital Content Service platform (fs cdnTM) Next Generation Intelligent Network (NGIN) & Charging applications (NGINius-AppsTM & NGINius-ChargingTM) Value-Added Services platform (ServiceWeaverTM) Service Activation & Provisioning system (ActionStreamerTM) Policy Management & Enforcement solution (ActionRulerTM) Contact Center solutions Service & Network Assurance solutions Big Data Analytics & Complex Event Processing platform (BigStreamerTM) 	 Multi-Service Core Networks Turnkey Broadband Access Networks Converged Backhauling Public & Private Cloud Security (Network & Enterprise) Data Center & IT Infrastructure Optimization Advanced ISP Services Converged Networking & UCC Network Rollout & Field Services Multi-Vendor Technical Support Operation Outsourcing & Managed Services

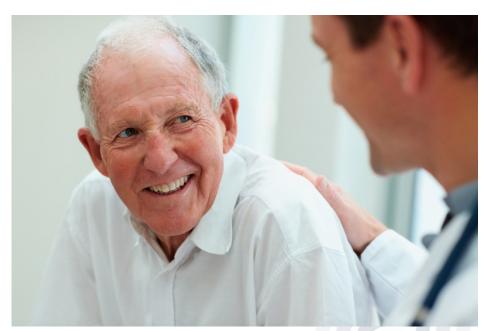
Excellence in Telecommunication Products, Solutions & Services



Patient Empowerment as the driving vision



- Patient empowerment is seen as an essential aspect of patient-centric care and identified as a main element of change for improved quality and safety in healthcare. Patient Empowerment engages patients to a greater extent in their healthcare process so that disease management becomes an integrated part of their daily life
 - What do patients need to cope better with their chronic diseases as part of their daily life?





Key issues for Patient Empowerment



- Fostering self-management
- Access to relevant information
- Managing the own health data
- Fostering patient-physician relationship



Core objectives



(1) Foster self-management with adaptive and secure patient pathways

- by including treatment goals and recommendations from their physicians
- Adapted to the patients skills (maturity level), requirements and needs

(2) Support behaviour changes with personalised action plans

by including services for personalised, long-term self-management goals realised by shortterm activities

(3) Collect patterns of daily living

Services for Observations of Daily Living (ODLs) about vital, physical and mental parameters and about physical and lifestyle activities based on openEHR archetypes

(4) Semantic interoperability with existing Personal Health Applications

by supporting semantic interoperability based on established standards such as HL7 IHE profiles, ISO/CEN13606 information models

Self-profia Yu

General EMPOWER project presentation



Thursday 11 April 2013 14:00-15:30 Global eHealth Strategies (2)

The EMPOWER Project - Facilitating Self-Management of Diabetes Patients by Intelligent, Knowledge-Based Pathways

Holger Schmuhl, Hans Demski, Ilias Lamprinos, Asuman Dogac, Manuela Ploessnig, Claudia Hildebrand Helmholtz Zentrum Munchen, Institute for Biological and Medical Imaging, Laboratory for Medical Information Systems, Neuherberg, Germany Intracom Telecom, Telco Software Department, Greece Software Research, Development and Consultation, Turkey Salzburg Research Forschungsgesellschaft, Knowledge and Media Technologies, Austria



EMPOWER Mobile app













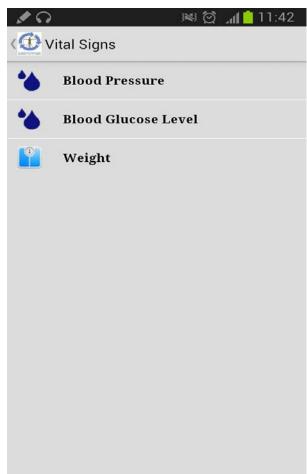


Vital signs collection



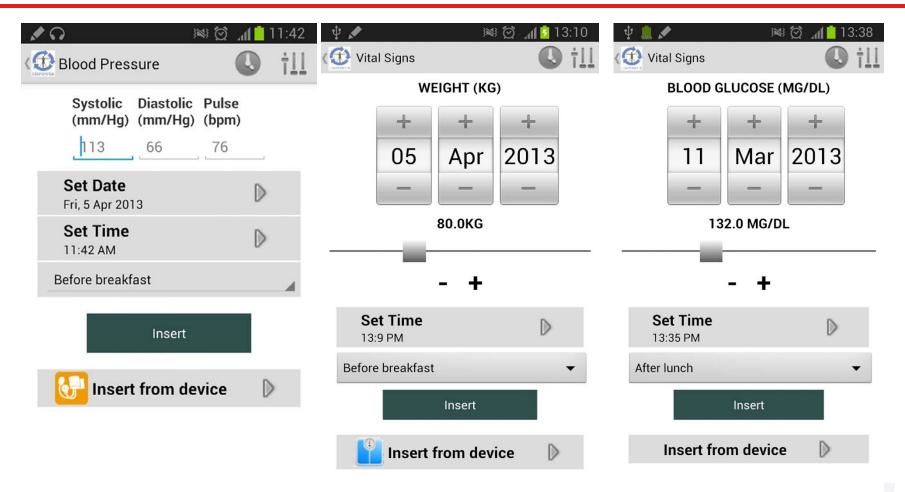






Vital signs collection: manual entry



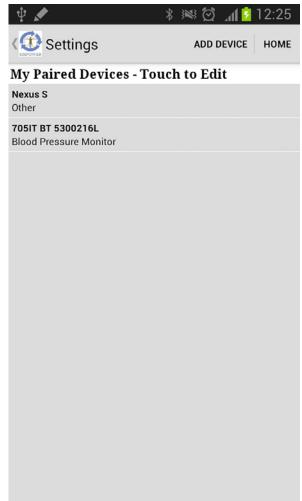


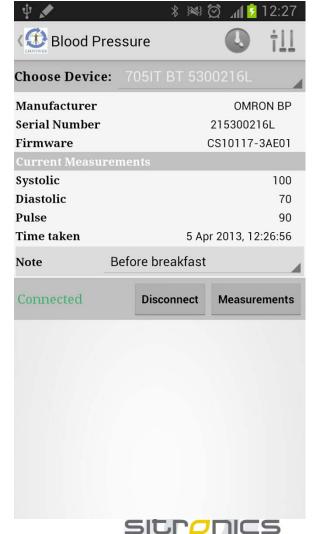


Vital signs collection: automatic entry







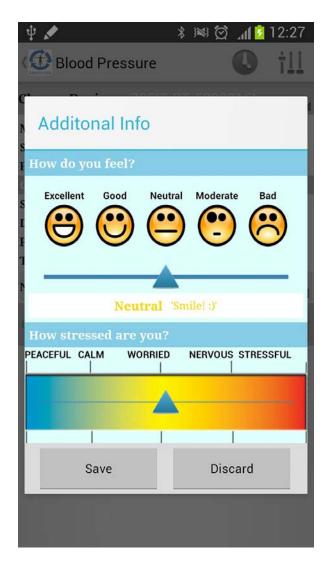


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Vital signs collection: additional Information







Vital signs collection: History (list view)





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₩80.0 KG	1.69 CM 12:32 PM, Wed, 2 Apr 2013 BEFORE BREAKFAST	BMI: 28.01	
90.8 KG	1.69 CM 12:32 PM, Mon, 3 Mar 2013 BEFORE BREAKFAST	BMI: 31.79	
₩80.0 KG	1.69 CM 21:09, Sat, 1 Mar 2013 BEFORE DINNER	BMI: 28.01	
121.6 KG	1.69 CM 21:09, Sun, 2 Mar 2013 BEFORE DINNER	BMI: 42.58	
85.6 KG	1.69 CM 21:09, Fri, 14 Mar 2013 BEFORE DINNER	BMI: 29.97	
72.7 KG	1.69 CM 21:09, Tue, 18 Mar 2013 BEFORE LUNCH	BMI: 25.45	
96.3 KG	1.69 CM 21:09, Sat, 22 Mar 2013	BMI: 33.72	





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Vital signs collection: History (line charts)

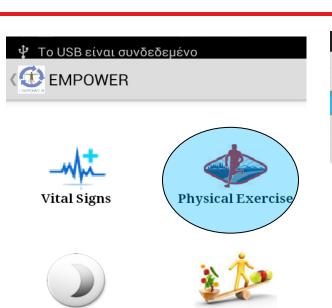




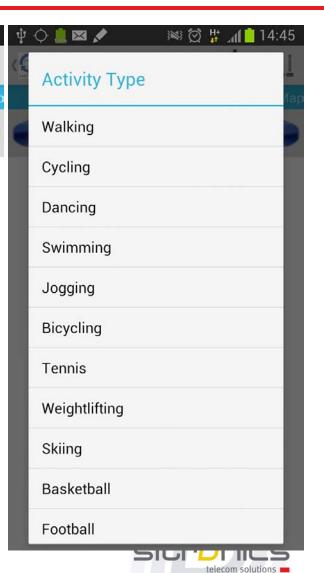
Physical activity monitoring

Nutrition





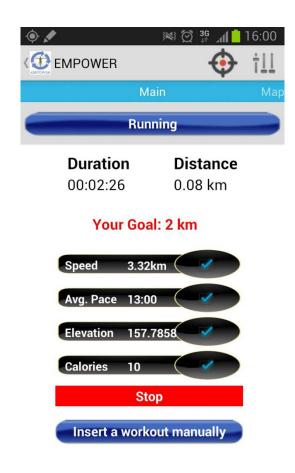


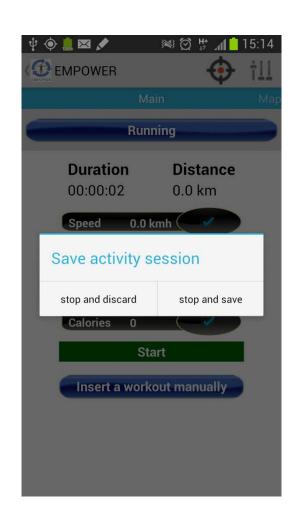


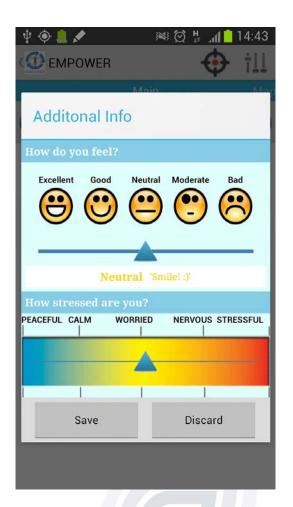
Sleep Diary

Physical activity: automatic monitoring



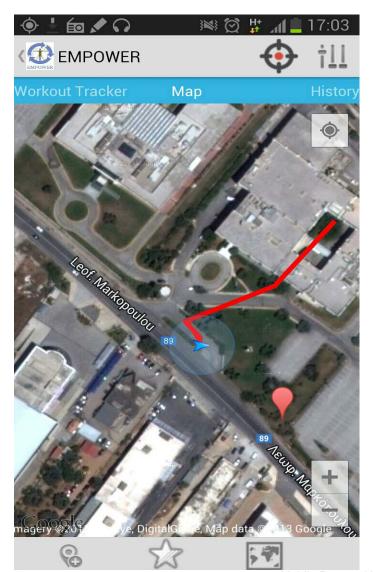


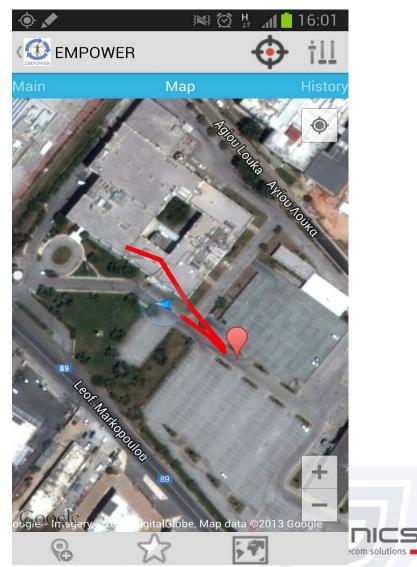




Physical activity: route tracking on a map

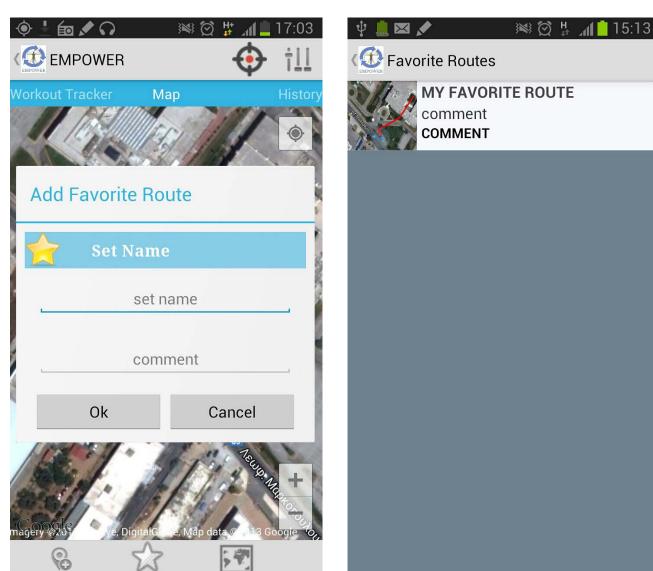






Physical activity: favorite routes

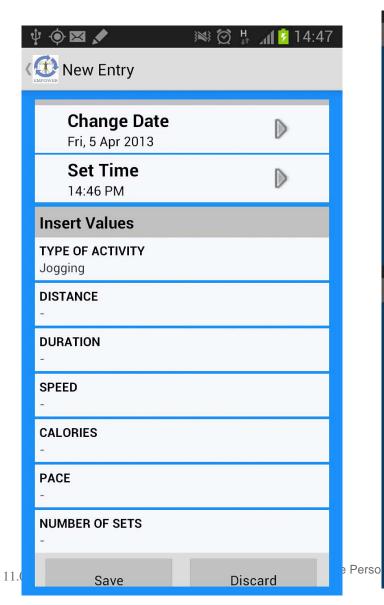




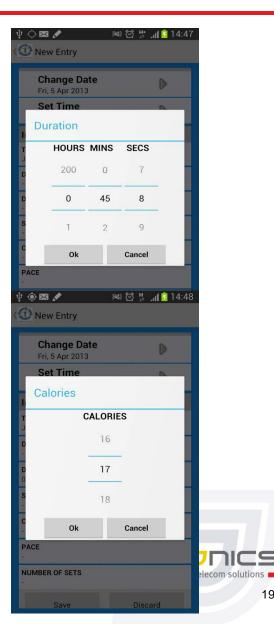
SITPONIC

Physical activity: manual entry of activities







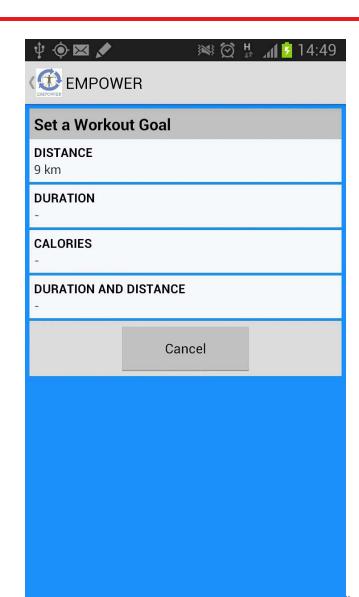


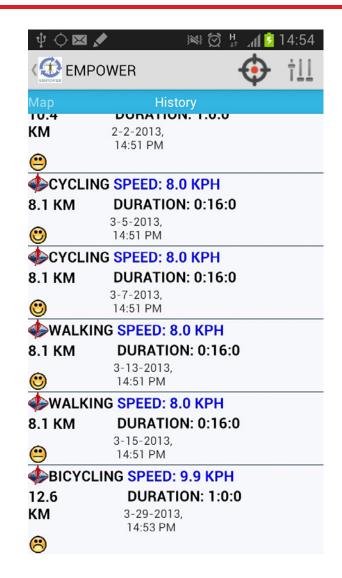
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Physical activity: set goals and view past sessions











Nutrition diary













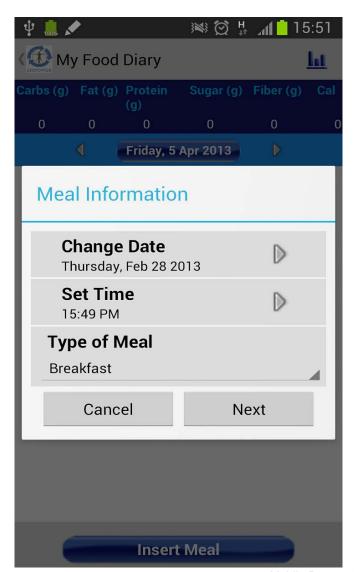


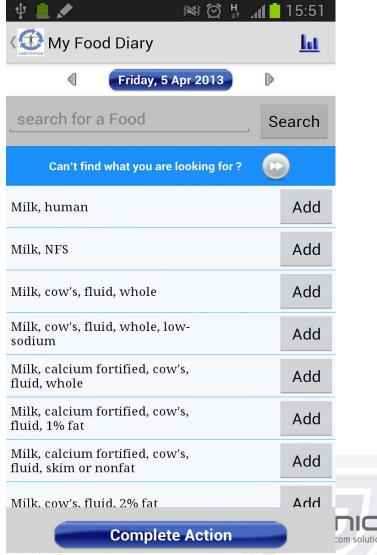




Nutrition diary: edit and store a meal entry

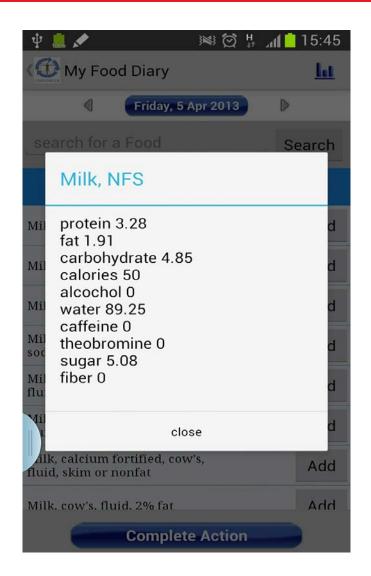


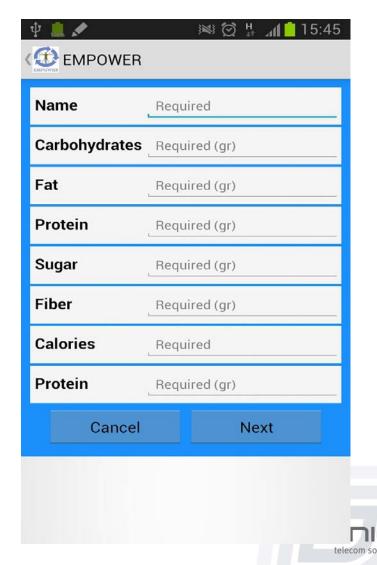




Nutrition diary: overview of nutrition facts







Sleep diary



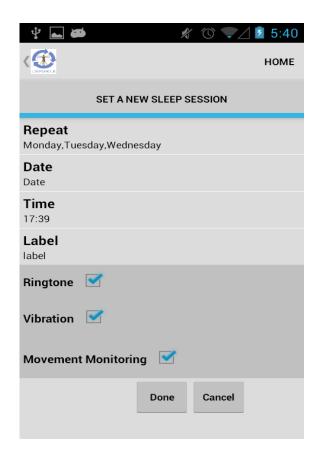








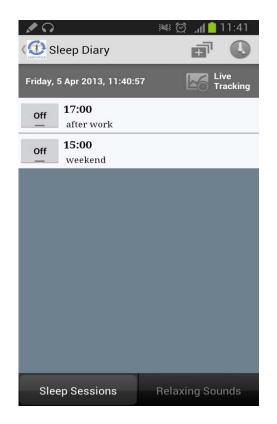


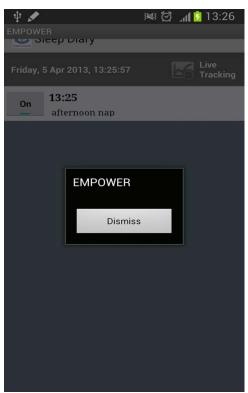




Sleep diary: re-usable sleep session alarms





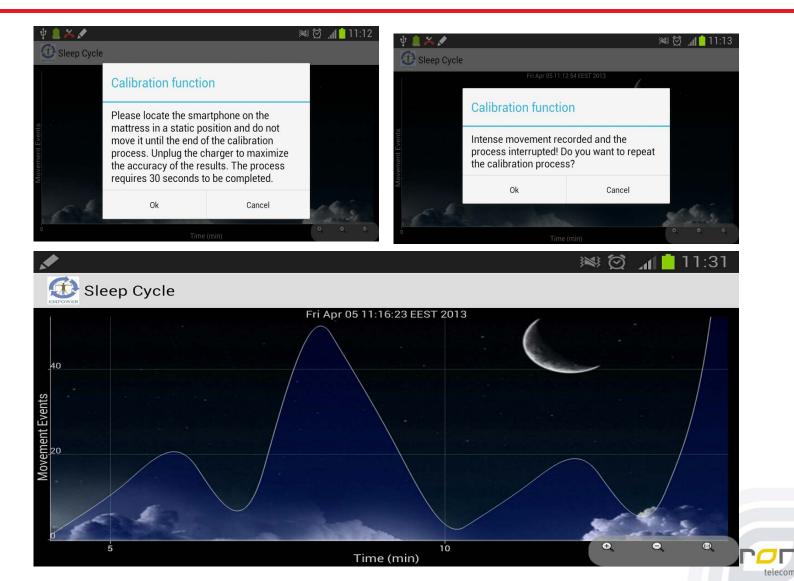






Sleep diary: live sleep session tracking





Sleep diary: relaxing sounds



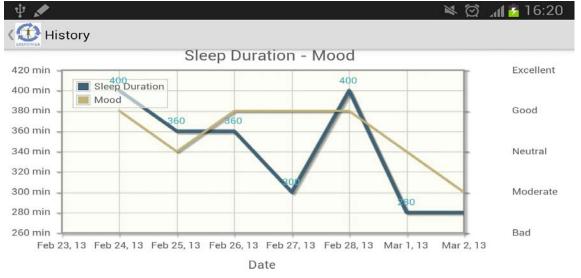




Sleep diary: charts











visit www.empower-fp7.eu

Thank you!

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