

International Study Visit, CERTH, Greece 11-13 Feb 2020



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International Study Visits of TARAL to EU Key Players

Description of the Organization

- Founded by a professional team of engineers directed by Prof. Asuman Dogac
 - In 2007 at METU Technopolis, Ankara, TURKEY
 - A spin-off company of the Middle East Technical University, Software Research and Development Center (METU-SRDC)
 - Founded in 1991
 - 15 FTE (Computer Engineers)
 - 7 of the R&D staff have PhD degree in Computer Science
 - www.srdc.com.tr/ehealth
- The SME with the highest number & budget of European Commission supported projects in Turkey both in FP7 and H2020

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Description of your research interests



Mobile Health Applications



Chronic Disease Management and Remote Health
Monitoring



Interoperability between Health IT Systems



Consultancy on eHealth Standards

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Description of your research interests

- Interoperability between Health IT Systems through Health IT Standards
 - HL7 v2, v3, FHIR, IHE Profiles, CDISC, Continua Health Alliance, IEEE Standards
- Semantic and Technical Interoperability
 - Terminology systems and mappings
- Open source, scalable, secure HL7 FHIR Repository: onFHIR.io
- Security and Privacy
 - Authentication, Role based authorization (oAuth 2.0), Smart on FHIR support, Single Sign On (OpenID connect)
 - Audit Record Repository
 - Anonymization and Pseudonymization
- Clinical decision support systems
 - OpenCDS, CDS-Hooks
- Automation of evidence based clinical guidelines
- Integrated Care Platform
- Chronic Disease Management Systems: ChronIQ
- Remote Health Monitoring Apps
- Personal Health Record Systems and Applications
- Secondary use of EHRs for clinical reserach, quailty measures and public health purposes
- Business Intelligence for Healthcare
- Distributed, Federated Learning
- Predictive Analytics

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R&D References



- A Federated Collaborative Care Cure Cloud Architecture for Addressing the Needs of Multi-morbidity and Managing Poly-pharmacy
 - H2020 project
 - Period: May 2016 – April 2020
 - Total budget: €4.9 million
 - Coordinator: University of Warwick , UK
 - Partners: 12 beneficiaries from 7 European countries



- Predictive model-based decision support for diabetes patient empowerment
 - H2020 project
 - Period: February 2016 – July 2020
 - Total budget: €4.9 million
 - Coordinator: TNO, Netherlands
 - Partners: 8 beneficiaries from 6 European countries

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R&D References

- **ADLIFE:** Integrated personalized care for patients with **AD**vanced chronic diseases to improve health and quality of **life**
- H2020 project
 - Period: January 2020 – December 2023
 - Total budget: €6,3 million
 - Coordinator: Kronikgune, Spain
 - Call: SC1-DTH-11-2019: Large Scale pilots of personalized & outcome based integrated care



- Improving Health Research in EU through FAIR Data
 - FAIRification pipeline
 - Privacy Preserving Data Mining
 - (i) supporting the discovery of disease onset triggers and disease association patterns in comorbid patients
 - (ii) a prediction service for 30-days readmission risk in complex chronic patients.
- Project Factsheet
 - H2020 project
 - Period: December 2018 – December 2021
 - Total budget: €2.999.053
 - Coordinator: SAS

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R&D References

Other eHealth Projects we have participated in H2020

- **Trillium-II:** Reinforcing the Bridges and Scaling up EU/US Cooperation on Patient Summary, Coordinated by MedCom (<https://trillium2.eu>)
- **mHealth4Afrika:** Community-based ICT for Maternal Healthcare in Africa, Coordinated by IIMC (<http://www.mhealth4afrika.eu>)
- **WEB-RADR:** Recognising Adverse Drug Reactions, IMI Project, Coordinated by MHRA (<http://web-radr.eu>)

Projects we have coordinated in FP6 and FP7 in eHealth Domain

- **FP7- SALUS:** Scalable, Standard based Interoperability Framework for Sustainable Proactive Post Market Safety StudiesProject (<https://www.srdc.com.tr/rndprojects/salus/>)
- **FP7- iCARDEA:** An Intelligent Platform for Personalized Remote Monitoring of the Cardiac Patients with Electronic Implant Device (<http://www.srdc.com.tr/projects/icardea/>)
- **FP6 - SAPHIRE:** Intelligent Healthcare Monitoring based on Semantic Interoperability Platform
- **FP6 - RIDE:** A Roadmap for Interoperability of eHealth Systems in Support of COM 356 with Special Emphasis on Semantic Interoperability
- **FP6 – ARTEMIS:** A Semantic Web Service-based P2P Infrastructure for the Interoperability of Medical Information Systems

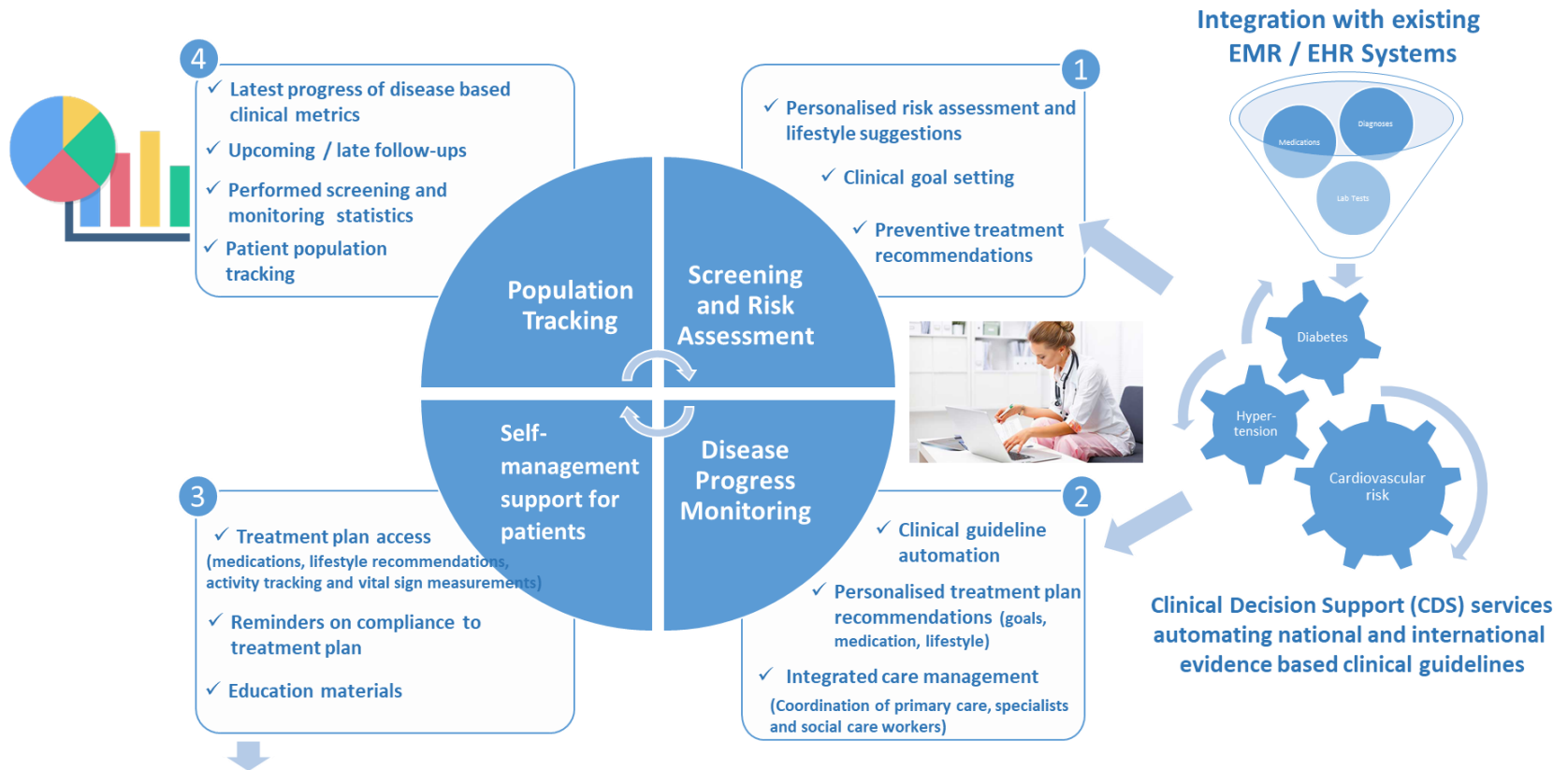
Projects we have participated in FP7 in eHealth Domain

- **FP7- EMPOWER:** Support of Patient Empowerment by an intelligent self-management pathway for patients (<http://www.empower-fp7.eu/>)
- **FP7- epSOS:** Smart Open Services - Open eHealth Initiative for a European Large Scale Pilot of Patient Summary and Electronic Prescription (<http://www.epsos.eu/>)
- **FP7 - PALANTE:** PATients Leading and mANaging their healthcare through Ehealth

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R&D References

Chronic Disease Management Platform of Turkey



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Specific Topics and Calls we are interested in:

- Personalized risk prediction, prevention and intervention with AI and BD [SC1-DTH-02-2020]
- Use of real-world data to advance research on the management of complex chronic conditions [SC1-DTH-12-2020]
- Digital Diagnostics – tools for supporting clinical decisions by integrating various diagnostic data [SC1-BHC-06-2020]
- International cooperation in smart living environments for ageing people [SC1-DTH-04-2020]

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Collaboration Offer

What we can bring to a consortium:

- Technical and Semantic Interoperability with Health IT systems (via international health IT standards and terminology mapping)
- We can provide a secure, scalable HL7 FHIR Repository and interoperability adapters
- Interoperability with Medical Devices
- Realtime and batch processing of health Data (Big Data Processing Infrastructure)
- Privacy Preserving Distributed Data Mining
- Predictive Analytics
- Clinical Decision Support Systems
- Chronic Disease Management Platform
- Business Intelligence Solution with integrated predictive analytics (MantIQ BI solution deployed to two hospitals in Turkey)
- Just-in-time adaptive interventions for increasing adherence to care plans
- Security and Privacy (Authorization, Authentication, Audit, Anonymization)

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More about our eHealth activities:

<https://www.srdc.com.tr/generaldocuments/srdc-ehealth.pdf>

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