

Projet FP7 – MD PAEDIGREE



Nom du projet	Model-Driven European Paediatric Digital Repository – MD PAEDIGREE
Call	FP7-ICT-2011-9
Type de projet	Collaborative project (generic)
Rôle de la HES-SO	Participant ou Coordinateur
Chercheur impliqué	Henning Müller (HES-SO//Valais)
Participants	Ospedale Pediatrico Bambino Gesù (Italy) – Coordinateur ; University College of London (United Kingdom); Istituto Gianna Gaslini (Italy) ; Deutsche Herzzentrum Berlin (Germany) ; Katholieke Universiteit Leuven & University Hospital Leuven (Belgium) ; Stichting Vu-VUmc (The Netherlands) ; Universitair Medisch Centrum Utrecht (The Netherlands) ; Siemens AG (Germany-The Netherlands) ; Biomolecular Research Genomics Srl (Italy) ; Institut National de Recherche en Informatique et en Automatique (France) ; Motek Medical (The Netherlands) ; Siemens Corp. (USA) ; Technische Universiteit Delft (The Netherlands) ; Università degli Studi di Roma “La Sapienza” (Italy) ; University of Sheffield (United Kingdom) ; Gnúbila France (France) ; Haute Ecole Spécialisé de Suisse Occidentale (Switzerland) ; Universitatea Transilvania din Brasov (Romania) ; Athena Research and Innovation Center in Information, Communication and Knowledge Technologies (Greece) ; Empirica Gesellschaft für Kommunikations und Technologieforschung MBH (Germany) ; Lynkeus Srl (Italy)
Budget global	16 432 513 euros / financement UE : 11 869 000 euros
Durée	48 mois, début le 01.03.2013
Résumé	<p>MD-Paedigree is a clinically-led VPH project that addresses both the first and the second actions of part B of Objective ICT-2011.5.2:</p> <ol style="list-style-type: none"> 1. it enhances existing disease models stemming from former EC-funded research (Health-e-Child and Sim-e-Child) and from industry and academia, by developing robust and reusable multi-scale models for more predictive, individualised, effective and safer healthcare in several disease areas; 2. it builds on the eHealth platform already developed for Health-e-Child and Sim-e-Child to establish a worldwide advanced paediatric digital repository. <p>Integrating the point of care through state-of-the-art and fast response interfaces, MD-Paedigree services a broad range of off-the-shelf models and simulations to support physicians and clinical researchers in their daily work. MD-Paedigree vertically integrates data, information and knowledge of incoming patients, in</p>

participating hospitals from across Europe and the USA, and provides innovative tools to define new workflows of models towards personalised predictive medicine. Conceived of as a part of the "VPH Infostructure" described in the ARGOS, MD-Paedigree encompasses a set of services for storage, sharing, similarity search, outcome analysis, risk stratification, and personalised decision support in paediatrics within its innovative model-driven data and workflow-based digital repository. As a specific implementation of the VPH-Share project, MD-Paedigree fully interoperates with it. It has the ambition to be the dominant tool within its purview. MD-Paedigree integrates methodological approaches from the targeted specialties and consequently analyses biomedical data derived from a multiplicity of heterogeneous sources (from clinical, genetic and metagenomic analysis, to MRI and US image analytics, to haemodynamics, to real-time processing of musculoskeletal parameters and fibres biomechanical data, and others), as well as specialised biomechanical and imaging VPH simulation models.

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<http://www.md-paedigree.eu/>