

MD-PAEDIGREE

Model-Driven European Paediatric Digital Repository

Realization

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Information

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Keywords

- Paediatric pathologies
- Predictive models
- Service-Oriented Knowledge Utility (SOKU)

Our skills

Development of a novel digital repository, the basis of an innovative model-driven Infostructure

Valorization

Universal use of the repository by clinicians

Partnership

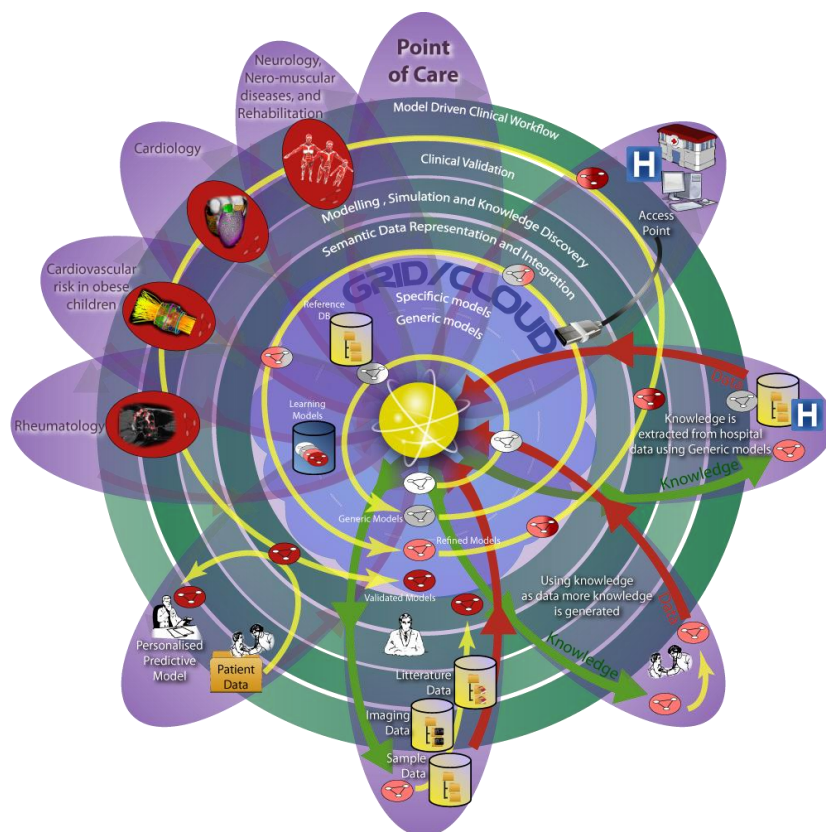
- Seven clinical centers
- Four European and one US industrial partners
- Two consultancies
- Nine research partners within the Virtual Physiological Human (VPH) community

Funding

European Commission

Schedule

03/2013 – 02/2017



MD-PAEDIGREE will aim at validating and advancing **patient-specific computer-based predictive models of six paediatric pathologies** (cardiomyopathy, cardiovascular disease risk in young obese patients, juvenile idiopathic arthritis, Type 3 spinal muscular atrophy, hemiplegic cerebral palsy, and Duchenne dystrophy) beyond the current state of the art such that they evolve into a mature piece of technology that will be accepted by healthcare professionals.

Of special interest to the HES-SO is the **development of a novel digital repository** that will implement the Service-Oriented Knowledge Utility (SOKU) vision during the course of MD PAEDIGREE.

The repository will form the basis of an **innovative model-driven Infostructure** that will enable healthcare professionals with a web-based tool to access a vast amount of heterogeneous and multimodal patient data at the point of care. That information, coupled with patient-specific information, can subsequently be used to make more informed decisions regarding the treatment that will lead to the best possible outcome for a particular patient.