



# **ICT-BIO Concertation Meeting**

Brussels, 29-30 June 2006

# Toward the Virtual Physiological Human

- The development of VPH is a grand challenge that requires a broad collaboration
- Need for mechanisms that promote the accumulation of work



# We need to share ....

- Software tools
- Infrastructures
- Data collections
- Knowledge



# Software tools

- We candidate the Multimod Application Framework (MAF) as the main collective software tool for the VPH
- MAF is an application framework already in use within LHDL and AneurIST for data management, data fusion, post-processing and interactive visualisation
- It wraps already VTK, ITK, and many other Open Source libraries, acting as a sort of distribution for VPH



# Infrastructures

- We need to convince DEISA or other similar large Grid infrastructural actions to call for VPH-related hosting
- We need to develop an Open Source distribution that makes possible to create a VPH repository, fully federated with the others
- We need a collective Ontology initiative, and tools that let the domain experts to maintain the domain ontologies



# Data collections

- The Living Human Collection (LHDL) and the AneurIST collection (AneurIST) might provide the core for the VPH repositories
- We need a translation/mediation layer that ensure that all these early repositories might one day become part of a larger initiative
- We propose the use of the WSMO ontology to logically represent the various repositories as collections of web services, which should include also some mediation services possibly based on the IUPS mark-up languages



# Knowledge

- We need a complete semantic grid that organise and represents the VPH knowledge; no conceptual prototypes but rather a fully functional infrastructure
- We need to establish a community effort that provides the seed for the creation of a Network of Excellence on Multiscale modelling of Human Pathophysiology



# Join Biomed Town!

- BT is a Internet Community open to any biomedical research professional, including students, industry and clinical users.
- We candidate BT as the main Agora for the VPH and invite all VPH related projects to open a dedicated Building in our Town.
- <http://www.biomedtown.org>

