

VPH-I Funding and Policy in the European Commission

Role of the NoE Roadmap VPH-I Integration day

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Budget for research supported by the ICT for Health unit in FP7

Overall € 340 M over 4 years (2007-2010) Challenge 5

– Personalisation of Healthcare

- Personal Health Systems (PHS)
€ 72 M in 2007 - € 63 M in 2009

– Patient safety (PS) - avoiding medical errors

€ 30 M in 2007 - € 30 M in 2009

– Predictive Medicine – Virtual Physiological Human (VPH)

- Modelling/simulation of human physiology and disease
€ 72 M in 2007 - € 5 M in 2009 - € 68 M in 2010

First VPH Call: FP7 call 2

Technical focus:

- Patient-specific computational modelling and simulation of organs targeting specific clinical needs.
- Data integration and new knowledge extraction.

Clinical focus:

- Simulation environments for surgery training, planning and intervention.
- Prediction of disease or early diagnosis.
- Simulation and assessment of the efficacy and safety of specific drugs.

Results:

- 15 projects (9 STREPs, 3 IP, 1 NoE, 2 CSA)



Second VPH call: FP7 call 4

International Cooperation on VPH

Focus of this Call (deadline April 2009):

- Interoperability (interfaces databases, web services, mark-up languages, meta-data, ontologies)
- Tools and services for global cooperation (for modelling/simulation, curated models, interconnected libraries)
- International validation environment (joint verification of clinical relevance of models)

Budget: 5M€

Results:

- 5 projects under negotiation selected with non EU partners.



Third VPH Call: FP7 call 6

Keep the overall VPH vision:

- Early diagnostics & Predictive medicine
- Personalised (Patient-specific) healthcare solution

By means of:

- Modelling & simulation of human physiology and disease-related processes
- Add emphasis on tools/infrastructure for the Bio-Med researchers

VPH in 2010

- Call 6 expected to open November 2009 , closing April 2010
- Budget € 63M

VPH Call 6

Research focus a):

Patient-specific computer based models and simulation

- Multiscale models & simulation of organs/systems targeting specific clinical needs.
- Better understanding of the functioning of the organs and their pathologies aiming at prediction/early diagnosis.

Emphasis on:

- Integration of existing models
- Clinical benefits demonstrated
- Data acquisition, medical, clinical, bio research (if needed) < 25%
- Access to external computing facilities supported
- Considering the coverage of the projects already funded in this field, the selection of proposals targeting clinical applications other than cancer and cardiovascular diseases will be given preference in case of proposals with tied scores at the evaluation stage.

VPH call 6

Research focus b):

ICT tools, services and infrastructures for bio-medical researchers to support at least 2 of the 3 activities:

1. Share data and knowledge
 2. Jointly develop and share models/simulators
 3. Create collaborative environments
- Interface to access to resources like Grid/HPC infrastructures
 - Ability to interface with existing medical research infrastructure
 - Complement/compatible with existing methods/standards to be suggested by VPH-NoE

What is next?

Work programme 20011-12

Overall planning for the elaboration of the workprogramme 2011-12:

- Orientation paper by Christmas 2009
- First draft of the workprogramme by February 2010
- Final draft of the workprogramme by May 2010

Sustainability of the VPH initiative

WP 2011-12

To get VPH in WP2011-12:

- Internal uncertainty
- Why do we need to carry on research in this field?
- Level of support in this field?
- What do you want to do?
- What will be the impact for the society, research community and industry?

Role of the NoE Roadmap WP 2011-12

Elaboration of WP2011-12:

- Drafted by the Commission but
- Based on community inputs (research/clinical/industry)

The NoE Roadmap is an **essential input** for the VPH.

- It should present the view of the Community at large on gaps, challenges and future direction.

Don't miss this opportunity (deadline December 2009)



Sustainability of the VPH initiative in FP8 (beyond 2013)

As part of COM(2009)116 on « A strategy for ICT R&D and Innovation in Europe ». The Commission proposed

- Limited set of *project cases* that cut across the innovation chain (research, innovation and deployment)
- Each project focused on *specific characteristics* of a pan-European service infrastructures addressing a *specific societal goal*
- To speed up the achievement of results there is a need to *orchestrate efforts across* research, innovation and deployment
 - e.g. multi-financed large-scale initiatives in FP and CIP and national and regional actions including procurement of R&D and innovation

Example projects cutting across research, innovation and deployment

European Large Scale Action in ICT for Health

- ICT service infrastructure for personal healthcare
 - *Specific societal goal: better integrated care and management of chronic diseases at the point of need; continuous and personalised care ...*
 - *Specific characteristics: accuracy of measurements, remote control by health professionals, self-monitoring ...*

Contact persons

- **DG Information Society and Media
Unit "ICT for Health"**

http://ec.europa.eu/information_society/ehealth

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