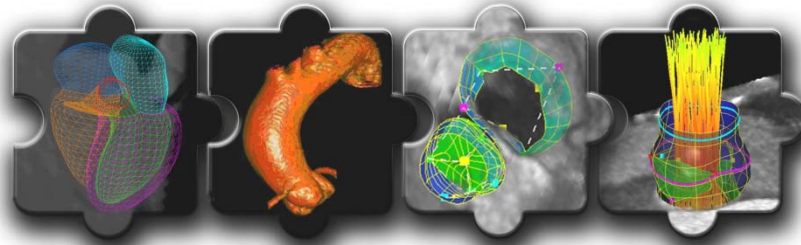


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**FP7-ICT-2009-4 (248421)**

**SeC**

**Sim-e-Child**



Collaboration Project

Thematic Priority: ICT

## **Deliverable D6.1** Dissemination Strategy Plan and Preliminary Materials

*Due date of delivery: 31 October 2010*  
*Actual submission date: 30 December 2010*

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Partner responsible for this deliverable: Lynkeus Srl

Revision 1



<b>Project co-funded by the European Commission within the FP7</b>
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<b>Dissemination level</b>	
PU	Public

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Edwin Morley-Fletcher	First revision	0.2	8 Dec. 2010
William McFadden	Second revision	0.3	17 Dec. 2010

### Sim-e-Child Consortium

The partners in this project are:

01. Siemens AG (Siemens)
02. Lynkeus Srl (Lynkeus)
04. maat France (MAAT)
05. Technische Universität München (TUM)
06. I.R.C.C.S. Ospedale Pediatrico Bambino Gesù (OPBG)
07. Siemens Corporate Research, Inc. (SCR)
08. Johns Hopkins University (JHU)
10. American College of Cardiology Foundation (ACCF)
11. Siemens Program and System Engineering srl (PSE)

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### Abbreviations

HeC	Health-e-Child
SeC	Sim-e-Child
ToF	Tetralogy of Fallot
MR	Magnetic Resonance or Magnetic Resonance Imaging
DICOM	<i>D</i> igital <i>I</i> maging and <i>C</i> OMmunications in <i>M</i> edicine (ACR-NEMA 3.0) - the DICOM standard facilitates interoperability of medical equipment by addressing the exchange of digital information.

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# 1. Introduction

## 1.1. Executive Summary

This document outlines the elements that define the strategy to disseminate the actions and results of Sim-e-Child (SeC). This is the first version of D6.1 and covers phase 1 of the project (months 1-10). The report will be updated again by the end of both the 2<sup>nd</sup> and 3<sup>rd</sup> phases (month 20 and 30). In this sense also the tasks indicated in this Deliverable cannot be considered as exhaustive nor set in stone, and additional activities may be added to the scope of activities undertaken to appropriately disseminate SeC.

The guidelines for SeC dissemination have been based on the following principles:

- conception of dissemination as “knowledge sharing” on a bi-directional level;
- cross fertilisation and liaison with industrial, research, and standardisation communities;
- involvement of independent experts to validate SeC protocols and entry criteria;
- transfer of results to the industrial, research, and standardisation communities;
- establishment of close collaboration with related projects;
- publication of SeC results in relevant international scientific journals;
- organisation of seminars and workshops within relevant conferences in the area, producing brochures and posters;
- set-up of a web site dedicated to the project, containing a public area for general communication
- publication and circulation to interested communities and stakeholders of an annual newsletter

The SeC Consortium is well aware that the nature of the project and its evolution may well dictate changes in the course and enactment of some of the activities set out below. In fact, numerous dissemination channels not foreseen here may come into being and may demand exploitation, while some activities deemed promising at present may later on be found to be unattractive and/or ineffective. SeC will nonetheless adhere to the above mentioned overriding principles in its further pursuit of the broadest array of dissemination activities possible.

SeC’s dissemination efforts will mirror the original call for which it received funding. Namely for the internationalisation of research and development of the Virtual Physiological Human, in this direction for the duration of the project special attention will be paid to utilising the expertise of SeC’s US partners in the dissemination of the results.

## 1.2. Overview of the document structure

The first version of D6.1 is separated into three further informative sections:

Section 2 is devoted to SeC’s dissemination strategy, providing an outline of the project and its message.

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Section 3 is dedicated to the channels SeC has identified for disseminating its actions and results, the target audiences and the means for communicating with them.  
Section 4 presents SeC's dissemination instruments

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## 2. Dissemination Strategy

### 2.1. The Sim-e-Child Message

A scarcity of relevant cases, the lack of integrated data and the limited opportunities for clinical comparison are just some of the reasons why patients with rare diseases, such as congenital heart diseases, are difficult to treat. Advances in paediatric cardiac surgery, interventional cardiology, intensive care and non-invasive imaging have led to a substantial increase in life expectancy for many patients with congenital heart disease. However, difficult challenges still persist due to the evolving nature of a child's heart and vascular system.

In order to achieve better and more reliable risk stratum, to improve and personalise therapies, and to ultimately increase the patient survival rate, there is a need for comprehensive and accurate computer models to be constructed from patient specific data and simulated physical constraints. SeC is working towards these goals by building on the achievements of the HeC project which was completed in April 2010, rated as "surpassing expectations" by the EC and the winner of the ICT08 Best Exhibition Award.

#### Supporting Clinical Decisions

SeC expands the Grid-based eHealth infrastructure developed by the HeC project and uses the high bandwidth pan-European GÉANT research network to:

- establish a multi-site database of paediatric cardiology data, information and knowledge for translational research
- develop a grid-based platform, supporting the definition, execution and sharing of scientific cardiac modelling and simulations
- enhance and expand the Health-e-Child heart model with of the aorta, aortic and mitral valves, and blood flow dynamics

By integrating these three elements, SeC will provide paediatric cardiology professionals in Europe and the US with a Virtual Physiological Human (VPH) decision support and virtual laboratory. This will enable them to construct and validate multi-scale and personalised models of a growing child's heart and blood vessels. Ultimately this will support their clinical decisions and allow better understanding of their patient's condition, thanks to the huge amounts of bandwidth and computing resources made available.

#### E-infrastructure for paediatric cardiologists

SeC is creating the first Trans-Atlantic platform for large scale simulations in cardiology. The clinical applications are further developing the original (HeC's) grid infrastructure based on the EGI Grid middleware (the gLite technology and European Grid Infrastructure - [www.egi.eu](http://www.egi.eu)) and the enabling GÉANT network. Together they provide virtually unlimited computing power, data storage capacity and network bandwidth across continents. Drawing on these resources, the SeC platform will be able to deliver innovative predictive disease models, complex data visualisation and knowledge discovery applications at the point of care.

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**Fig 1: The Expansion of the HeC network to the USA**

SeC's applications are based around the concept of data integration, in the way that HeC integrated the data from four European hospitals over three disease areas (cardiology, rheumatology and neuro-oncology). SeC is further integrating the legacy cardiology data with a large number of cases from two, ongoing US multi-centre studies, the Coarctation Of the Aorta Stent Trial [COAST] and the National Registry of Genetically Triggered Thoracic Aortic Aneurysms and Cardiovascular Conditions [GenTAC] with the support of the American College of Cardiology (Washington, D.C), and with the support of Johns Hopkins Children's Centre (Baltimore, Maryland) to validate the existing models and those being developed.

## **2.2. Identification of Target Groups and End Users**

Achieving the mission and ambitions summarised above requires a consolidated effort aimed at establishing links with distinct - but overlapping - target groups and end users: IT specialists, paediatric health care providers, and health care authorities and policy makers. Reaching each of these user bases involves varying approaches, but for purposes of simplification, these can be defined as either clustering activities with other ongoing actions/projects sharing similar or complementary goals, or through conference activity, be this at periodic venues or specific SeC co-organised or co-sponsored events.

Regarding the former, the project is in the position to exploit numerous opportunities: many SeC members are partners in more than one ongoing EU-funded project/network sharing overlapping missions with which HeC plans to liaise and establish and/or enhance relations. Particularly telling is the close collaboration with the Enabling Grids for E-Science project and SeC's utilisation of the EGEE's grid middleware "gLite". Other conspicuous examples of projects sharing partners with SeC are Géant and SHARE.



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### 3. Dissemination channels

#### 3.1. Conferences and clustering/networking events

The first 5 months of SeC's work saw the project heavily disseminated in conjunction with the preceding Health-e-Child (HeC) project. In March 2010 the work and objectives of SeC were presented as part of HeC's final dissemination efforts. HeC had been invited by the EC to present its work at the invitation only ministerial day that preceded the World of Health IT and the EC's high level eHealth conference which for the first time were being held at the same time in Barcelona within the eHealth week 2010. As a concrete example of how HeC's results were to be exploited, SeC's objectives were central to all dissemination activities. Following on from this high level of dissemination, HeC and SeC were selected to be one of five success-stories of the ICT for Health unit to be highlighted in briefings for the new EC Vice-President and Digital Agenda Commissioner N. Kroes and the new Director General R. Madelin to raise awareness about eHealth research activities, its results and achievements.

HeC's final international conference was held in Sestri Levante in April 2010. The conference was designed to highlight the achievements of the project and place the work in the broader scheme of the EC's VPH framework. A special presentation was given by SeC's original Project Coordinator, Martin Huber, on the results of HeC and on how SeC had been designed to build on the most successful elements of the projects work in cardiology and further expand the grid network.

David Manset of Maat G also introduced the work of SeC during his key note address "*From Health-e-Child to Sim-e-Child, Experiences from Adopting the Grid to Adapting it to Translational Medicine for Paediatrics*" at the International Symposium of Grid Computing in March 2010 in Taipei, Taiwan (<http://event.twgrid.org/isqc2010/program.html>).

Over the summer and autumn of 2010 the SeC project was disseminated throughout Italy in conjunction with GARR, the Italian network of University research centres. In July SeC's Project Manager, Edwin Morley-Fletcher, wrote an article which was published in the "GARR News" magazine (Fig. 2 & 3 below), and was subsequently invited to present SeC's objectives on the first day and through GARR's booth at the First National Conference on Health Research (<http://www.garr.it/eventiGARR/cernobbio-ws/programma.php>) which was held in Cernobbio, near Milan, on the 8/9th November 2010.

**Sim-e-Child**  
Diagnosi e terapie personalizzate in cardiologia pediatrica  
Approfondimento a cura del prof. Morley-Fletcher

**DECIDE**  
Diagnostic Enhancement of Confidence by an (re)nominal Distributed Environment

**Obiettivi:** L'obiettivo di DECIDE è la progettazione e l'implementazione di un'infrastruttura che, partendo dal nucleo di neuGRID e sfruttando le risorse della rete pan-europea GEANT e delle singole reti nazionali della ricerca, fornirà al personale medico un servizio per l'ottimizzazione dei dati che facilitino la diagnosi della malattia di Alzheimer e della sclerosi.

**Coordinatore:** Consortium GARR

**Partner:** il progetto coinvolge tutti i soggetti che concorrono alla creazione dell'infrastruttura di DECIDE dagli utenti finali, rappresentanti delle associazioni dei pazienti, fino ai fornitori di rete come il GARR, passando per i partner scientifici come il CNR e il network europeo EADC (European Alzheimer Disease Consortium) che comprende 13 Paesi e annovera alcuni tra i più importanti centri di ricerca sulla malattia dell'Alzheimer come IRCCS Fatebenefratelli in Italia.

**Data di inizio:** 01/09/2010  
**Durata:** 24 mesi  
**Budget totale:** 2.936.757 €  
**Finanziamento della Comunità Europea:** 2.399.908 €  
**Sito web:** [www.sim-e-child.org](http://www.sim-e-child.org)

**La piattaforma di Grid sviluppata da Sim-e-Child fornisce le risorse per integrare innovativi modelli predittivi delle malattie dell'infanzia**

Child ha aggiunto due sedi degli Stati Uniti, il Johns Hopkins Children's Center di Baltimora e il Siemens Corporate Research di Princeton. Nei prossimi mesi la piattaforma di Health-e-Child verrà estesa...

**Il successo di Health-e-Child**  
La piattaforma Health-e-Child e le sue applicazioni hanno vinto numerosi premi tra cui ICT 08 Exhibit Grand Prix, RIGETS Best Live Demonstration Award, Health-e-Child Best Demonstration Award, 2009 Medical Informatics Europe Best Poster Award.

**La rete GEANT**  
La rete GEANT è la rete pan-europea di alta velocità che collega 18 paesi e con il resto del mondo le Reti Nazionali per la Ricerca e l'Innovazione (REN) di tutta Europa. GEANT raggiunge circa 40 milioni di utenti in più di 8000 organizzazioni di 40 paesi europei.

**Health-e-Child** **Sim-e-Child**

**Estensione di Health-e-Child e Sim-e-Child**

**Modelli personalizzati.** In Verticosi (sinistra e destra) e nella delimita in immagine di morfologia magnetica. (b) Esplorazione (sinistra) ed epitelio, ventricolo destro, ventricolo sinistro, nella dell'ortica in immagine da DIC. (c) Valvola aortica e mitrale abbinate modellizzate sulla base di scansioni tomografiche. (d) Valvola aortica affetta da patologia. (e) Altri: stenotica, (in basso) bicuspide, (a) Aorta in vista in immagine di DIC.

Figures 2 and 3: SeC article in GARR News

SeC cooperated with GEANT and neuGrid at ICT2010 at ICT10 to develop a booth that gave practical examples of how the data networking services developed within the GEANT project, such as Bandwidth-on-Demand and performance monitoring tools were having an impact on EC funded research.

The demonstration showed off a prototype SeC service combining the use of iPad and Augmented Reality (AR) to display medical image processing pipeline outputs. 3D/4D models were personalized from HeC's patient records and displayed in augmented reality instead of regular visualization. The iPad was used as an advanced remote controller to browse datasets, select pipelines to be run, etc (everything was delivered through Web interfaces interacting with a grid infrastructure underneath). Once the analysis completed, the iPad could display the resulting AR pattern, the latter being then interpreted in a dedicated AR spot (a short video clip can be seen at [www.youtube.com/watch?v=LXuL\\_W4-FE](http://www.youtube.com/watch?v=LXuL_W4-FE)). The interactive nature of the demo was considered as raising SeC's profile within ICT 10 and as a good model to follow for the duration of the project.

**CASE STUDY**

**GÉANT**  
global collaboration

## Sim-e-Child: Diagnosis and customised treatment in paediatric cardiology

A scarcity of relevant cases, the lack of integrated data and the limited opportunities for clinical comparison are just some of the reasons why patients with rare diseases, such as congenital heart diseases, are difficult to treat. Advances in paediatric cardiac surgery, interventional cardiology, intensive care and non-invasive imaging have led to a substantial increase in life expectancy for many patients with congenital heart disease. However, difficult challenges still persist due to the evolving nature of a child's heart and vascular system.

In order to achieve better and more reliable risk stratum, to improve and personalise therapies, and to ultimately increase the patient survival rate, there is a need for comprehensive and accurate computer models to be constructed from patient-specific data and simulated physical constraints. Sim-e-Child is working towards these goals by building on the achievements of the Health-e-Child project which was completed in April 2010 and winner of the ICT08 Best Exhibition Award.

**Supporting Clinical Decisions**  
Sim-e-Child expands the Grid-based eHealth infrastructure developed by the Health-e-Child project and uses the high-bandwidth pan-European GÉANT research network to:

- establish a multi-site database of paediatric cardiology data, information and knowledge for translational research
- develop a grid-based platform, supporting robust search, optimisation and matching techniques for scientific simulations
- enhance and expand the Health-e-Child heart model with of the aorta, aortic and mitral valves, and blood flow dynamics.

By integrating these three elements, Sim-e-Child will provide paediatric cardiology professionals in Europe and the US with a Virtual Physiological Human (VPH) decision support system and virtual laboratory. This will enable them to construct and validate multi-scale and personalised models of a growing

*In Sim-e-child we are enhancing cardiac models by utilising international collaboration beyond the European research area to validate our models on additional data. Also, the models developed in Health-e-Child are being expanded by integrating existing Siemens Corporate Research models of the aorta, aortic valve and mitral valve together with blood flow modelling and flow visualisation from the Technical University of Munich. The new and comprehensive heart model will be applied to congenital aortic heart disease and repair, thus enriching the portfolio of applications available in Health-e-Child and broadening its end-user community.*

*Michael Sahling  
Sim-e-Child Project Coordinator, Siemens.*

Sim-e-Child | connect • communicate • collaborate

## Sim-e-Child Demonstration

**GÉANT**

- **Establish Multi-site Database**
  - Grid infrastructure as technological glue
- **Grid-based platform for Scientific Simulations**
  - Allows large-scale experiments,
  - Faster, better and cheaper than in-house,
- **Extend Health-e-Child Heart Model**
  - Offers a unique environment for developing, testing and assessing models,
- **DSS and Knowledge Discovery**

[www.sim-e-child.org](http://www.sim-e-child.org) **ICT 10** Demonstration

Figures 3 and 4: SeC's dissemination material at ICT2010

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### **SeC at MICCAI (Beijing, September, 2010)**

Two members of the SeC consortium, Sasa Grbic (Siemens) and Razvan Ionasec (SCR), both PhD students supervised by Prof. Nassir Navab (TUM), received the MICCAI Young Scientist Award for 2010 in Beijing, China.

The winning paper was supported by SeC and represents the first data-driven modelling of the complete valvular apparatus. The heart valves represent a critical component for the multiscale modelling, simulation, understanding and prediction of the whole heart function.

The MICCAI awards commission citation read:

*"The original contribution of this paper is in the estimation of patient-specific cardiac valve parameters from cine images enabled by a new constrained Multi-Linear Shape Model. This work addresses a very challenging clinical problem, which is a complex 4D modelling problem, and demonstrated impressive results."*

### **Other Major Dissemination Events**

During the VPH NoE's annual meeting, [VPH 2010](#), in Brussels in September Razvan Ionasec of TUM presented a paper entitled "Patient-Specific Modelling of Whole Heart Anatomy, Dynamics and Hemodynamics from 4D cardiac CT Images".

David Manset of Maat G also introduced the work of SeC during his key note address "From Health-e-Child to Sim-e-Child, Experiences from Adopting the Grid to Adapting it to Translational Medicine for Paediatrics" at the International Symposium of Grid Computing in March 2010 in Taipei, Taiwan (<http://event.twgrid.org/isgc2010/program.html>).

Late in the reporting period Yannick Legré of maatG and President of the International HealthGrid Association presented SeC at the Health Informatics New Zealand 2010 Conference (November 3<sup>rd</sup>, Wellington, New Zealand, [www.healthgrid.org](http://www.healthgrid.org)) and at the FP7 project Decide's kickoff meeting (September 23<sup>rd</sup> Rome Italy, [www.eu-decide.eu/launch\\_event/legre\\_decide\\_230910.pdf](http://www.eu-decide.eu/launch_event/legre_decide_230910.pdf))

### **3.2. International Outreach**

SeC's US partner JHU has had an abstract entitled "Development and validation of a novel automated learning based algorithm for quantification of MRI right ventricular volume in Tetralogy of Fallot" submitted to the 45th Annual Meeting of the Association of European Paediatric Cardiology ([www.aepc2011.com/](http://www.aepc2011.com/)) which will be held in Grenada (Spain) in May 2011. Philip Spevak, Paediatric Cardiologist at JHU, intends to present the abstract and has cooperated with OPBG in preparing a clinically directed overview of the project to inform the US and EU Paediatric Cardiology communities about SeC's work and objectives.



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## 4. Dissemination Instruments

### 4.1. Project Logo

In the first 4 months SeC decided on a final logo that will accompany all official project dissemination material.



### 4.2. Communication templates

SeC has a uniform PowerPoint template that all projects presentations are presented using. Below is a copy of the title screen.



### 4.3. Public Website

During the first phase of SeC the project delivered the first version of the projects website ([www.sim-e-child.org](http://www.sim-e-child.org)). The website was designed to be completely compatibly with the directions laid out by the EC for all dissemination materials and Annex II of the Grant Agreement. The website currently contains sections entitled:

Sim-e-Child: D6.1DisseminationPlanAndMaterials.doc

	<b>D6.1</b> Dissemination strategy plan and preliminary materials	Sim-e-Child (SeC) FP7-ICT-2009-4
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- About
- Partners
- Events
- Public Documents
- Newsletter
- Publications
- Links
- Health-e-Child
- Contacts

In July 2010 the website was updated at the EC's request to include news from the High Tech Wire service. The website will be updated later in the project to reflect the achievements of the projects as opposed to the goals of the project as it is currently doing.



**Figure 5: The SeC website home page**

#### 4.4. Simulation Portal

SeC has engaged a significant infrastructure setup and migration in the first reporting period, aimed at interconnecting HeC and SeC, according to the SeC work plan and with the ultimate goal of making HeC's mature components sustainable and therefore reusable in SeC in the first phase of the project, while giving SeC a significant technical basis onto which further elaborating. This infrastructure setup is now well advanced and the SeC Web portal, with public and private parts, providing users with access to the grid and integrated applications is now up and running.

As of month 10, the portal provides users with access to:

Sim-e-Child: D6.1DisseminationPlanAndMaterials.doc

- The SeC Grid infrastructure and computing resources, using a standard and internationally recognized GridPMA certificate. The Portal is cross platform and therefore works under MS W7/XP, major Linux distributions and Mac OS X in latest version
- The SciPort database and interfaces for manipulating data and simulations' outputs (please note that SciPort is being integrated to the security infrastructure; it will therefore be possible to enter SciPort directly once logged in the SeC portal soon),
- The Desktop Fusion facility, a remote desktop service allowing to run demanding and/or "Web unaware" applications such as the HeC Case Database, the HeC Patient Browser as well as the HeC CaseReasoner). Additional tools to support researchers in their daily activities to store electronic documents, to blog/forum/wiki project information etc



Figure 6: The SeC Portal's Public home page

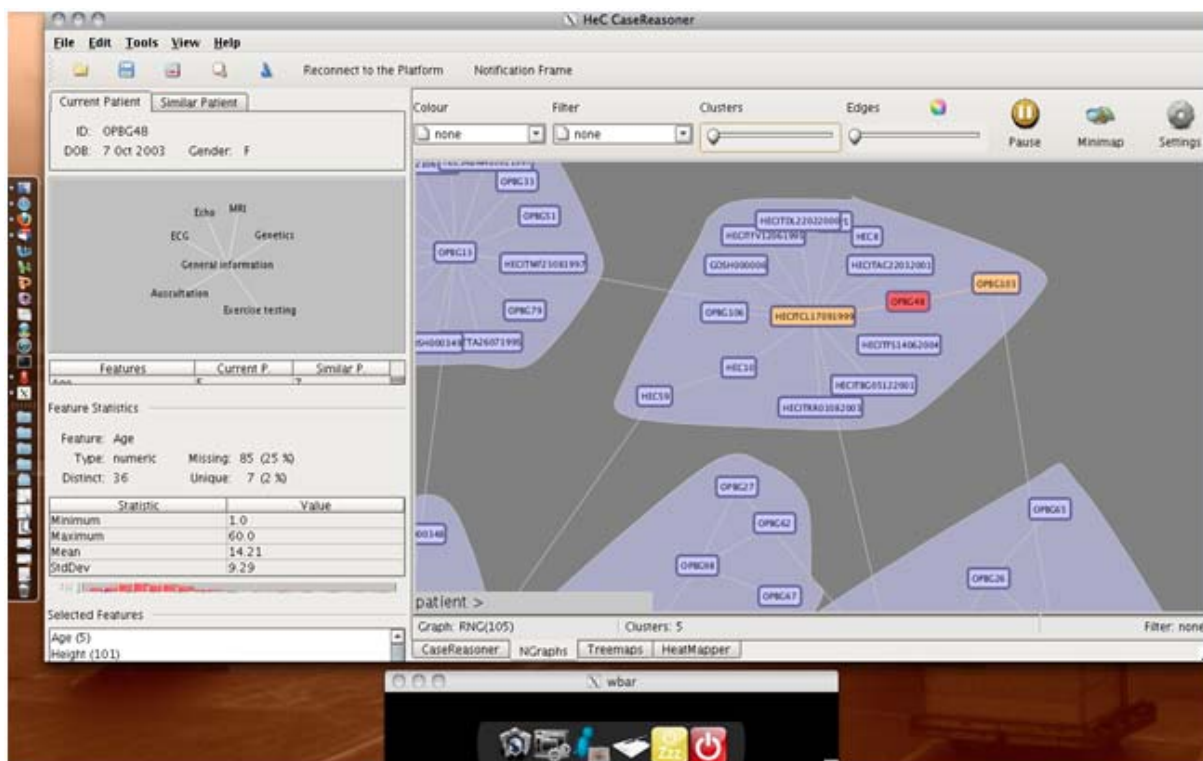


Figure 7: HeC's CaseReasoner working through the SeC portal

#### 4.5. Newsletter

The SeC consortium will be producing an annual newsletter; the first edition will be distributed at the end of January 2011 to interested parties through the website and in paper and digital form at all SeC dissemination events. The newsletter will include highlight of the project achievements, reviews of the dissemination events of the past twelve months, descriptions about related work of the projects partners and insights into the clinical impact of the project.

#### 4.6. International scientific journals List

1. Amodeo A, Brancaccio G, Michielon G, Filippelli S, Ricci Z, Morelli S, Gagliardi MG, Iacobelli R, Pongiglione G, Di Donato RM., *Pneumatic pulsatile ventricular assist device as a bridge to heart transplantation in pediatric patients*, *Artif Organs*. 2010 Nov;34(11):1017-22.
2. Barcudi S, Sanders SP, Di Donato RM, de Zorzi A, Iacobelli R, Amodeo A, Gagliardi MG, Borgia F, Pongiglione G, Rinelli G., *Aberrant left innominate artery from the left descending aorta in right aortic arch: echocardiographic diagnosis*, *J Am Soc Echocardiogr*. 2010 Feb;23(2):221.e5-7.
3. Brancaccio G, Amodeo A, Ricci Z, Morelli S, Gagliardi MG, Iacobelli R, Michielon G, Picardo S, Parisi F, Pongiglione G, Di Donato RM., *Mechanical assist device as a bridge to heart transplantation in children less than 10 kilograms*, *Ann Thorac Surg*. 2010 Jul;90(1):58-62.
4. Carotti A, Albanese SB, Filippelli S, Ravà L, Guccione P, Pongiglione G, Di Donato RM., *Determinants of outcome after surgical treatment of pulmonary atresia with ventricular septal defect and major aortopulmonary collateral arteries*, *J Thorac Cardiovasc Surg*. 2010 Nov;140(5):1092-103.



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5. Cavallini M, Di Zazzo G, Giordano U, Pongiglione G, Dello Strologo L, Capozza N, Emma F, Matteucci MC., *Long-term cardiovascular effects of pre-transplant native kidney nephrectomy in children*, *Pediatr Nephrol.* 2010 Dec;25(12):2523-9. Epub 2010 Sep 25.
6. Comaniciu, D., *Patient-Specific Modelling of Whole Heart Anatomy, Dynamics and Hemodynamics from 4D cardiac CT Images*, *Interface Focus* 2010 - (invited publication-submitted)
7. De Caro E, Smeraldi A, Trocchio G, Calevo M, Hanau G, Pongiglione G., *Subclinical cardiac dysfunction and exercise performance in childhood cancer survivors*, *Pediatr Blood Cancer.* 2011 Jan;56(1):122-6.
8. De Caro E, Spadoni I, Crepaz R, Saitta M, Trocchio G, Calevo MG, Pongiglione G., *Stenting of aortic coarctation and exercise-induced hypertension in the young*, *Catheter Cardiovasc Interv.* 2010 Feb 1;75 (2):256-61. Erratum in: *Catheter Cardiovasc Interv.* 2010 Jun 1;75 (7):1143.
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