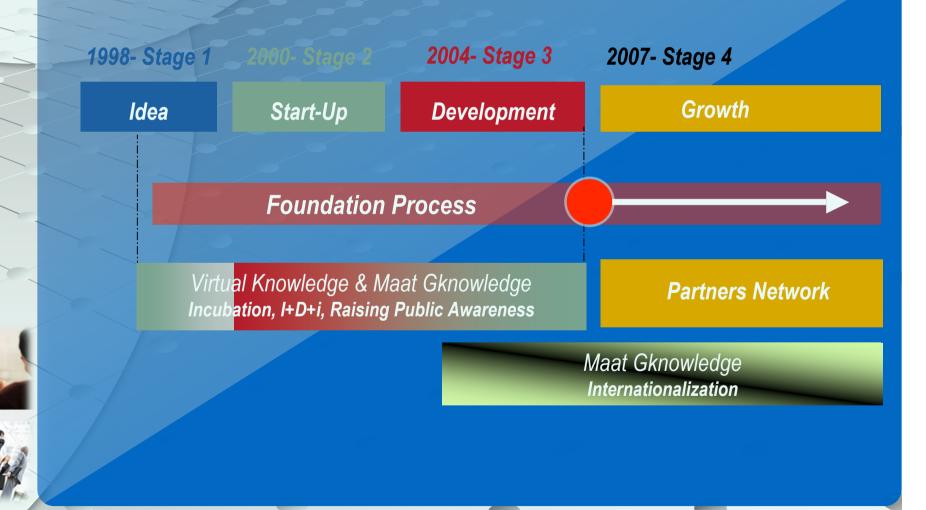


Healthgrids, from Revolution to Evolution Experiences from European Projects

David MANSET Director of Biomedical Applications CEO MAAT France www.maat-g.com





maat – Stages of Growth

maat Group

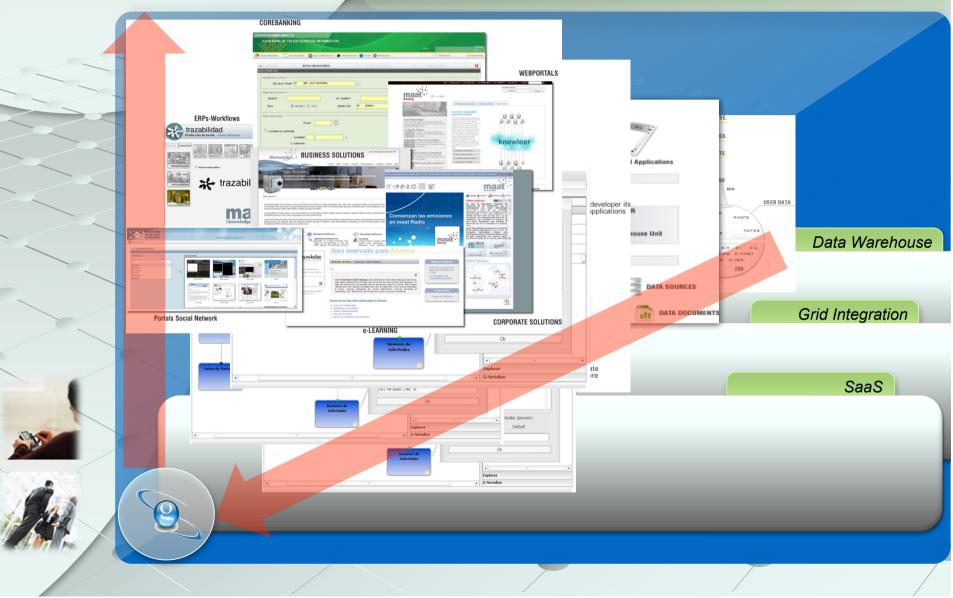
- 300 Profesionales
- 20 Millones Euros Ingresos
- Crecimiento en nuevos Sectores de Actividad
- Promoción Activas de Alianzas con los principales Centros de I+D+i

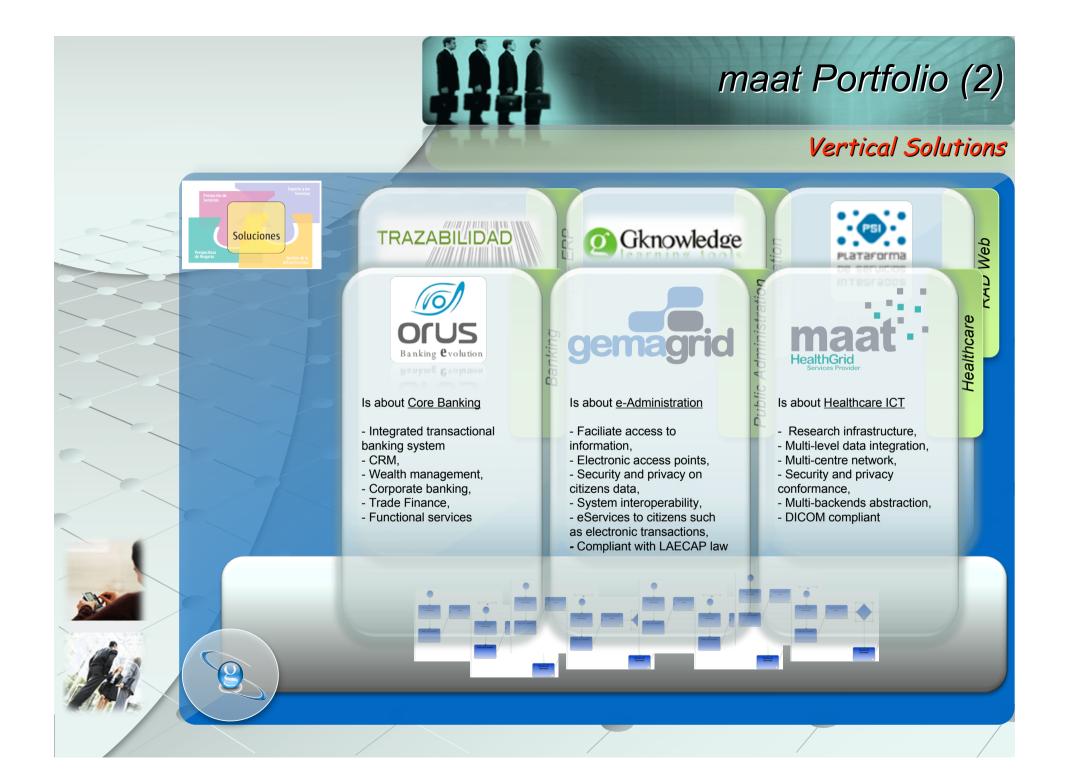


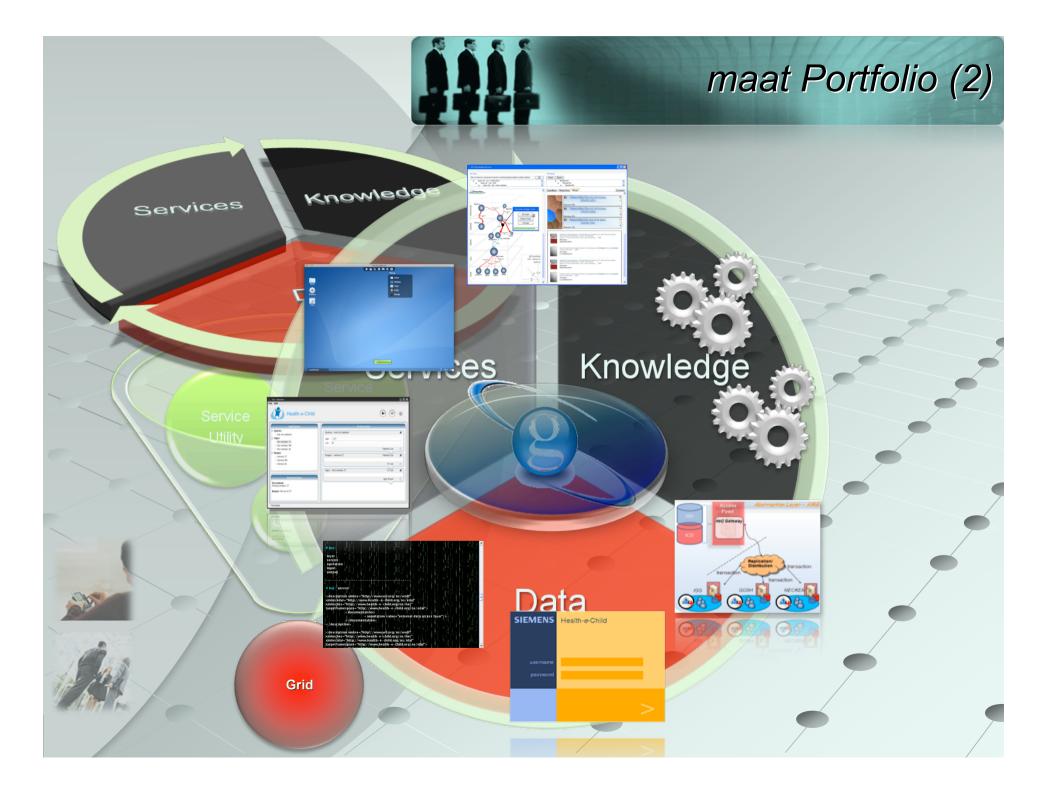


maat Portfolio (1)

Horizontal Solutions









maat received a "Gold Medal" Award at the 2007 "Salon International des Inventions de Genève"

Maat ranked 1st Best Live Demo at the 2008 HealthGrid Conference, June in Chicago, US



Awards

"Runners Up"

in Budapest , Hungary for its Healthgrid Platform

Maat quoted as "Cool Vendor" by GARTNER in Platform and Integration Middleware

> Gartner Research Publication Date: 27 March 2009 ID Number: G00155600

Cool Vendors in Platform and Integration Middleware, 2008



Healthgrid Platform and Innovative Applications





Is about Healthcare ICT

- Research infrastructure,

Healthcare

- Multi-level data integration.
 Multi-centre network.
- Security and privacy
- conformance.
- Multi-backends abstraction
- DICOM compliant

Today healthcare is facing a Challenge:

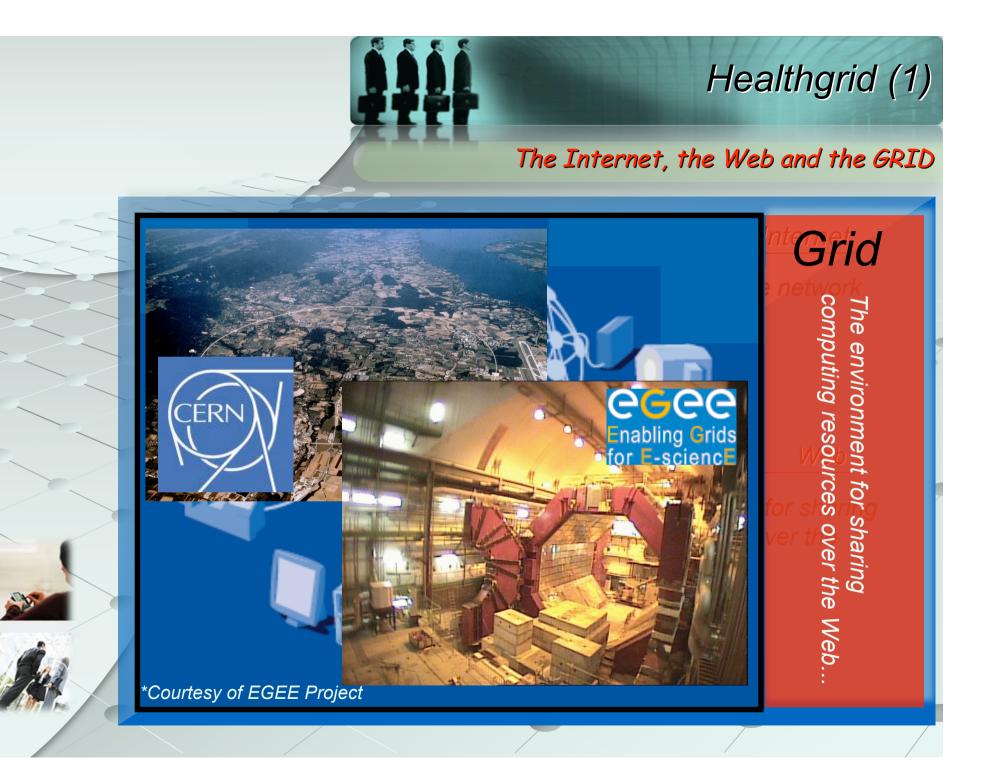
- Fewer Patient Errors
- Better Health Outcomes
- Reduce Patient Journeys at the Hospital
- Decentralize Health Services

Improve Healthcare Quality of Services while Reducing Costs

Information and Communication Technologies are the solution...



Healthcare ICT



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Healthgrid (2)

A Grid-powered Mammography Database



Oncology

 Breast Cancer (microcalcifications and masses) Healthgrid

Healthgrid (3)

Healthgrid

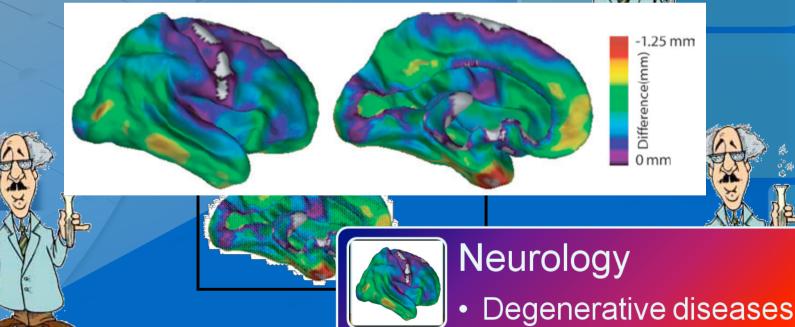
neuGRID

- AS

A Grid-based e-Infrastructure for Data Archiving and Computing Intensive Applications in neurosciences

Question A Marker of Alzheimer's progression?

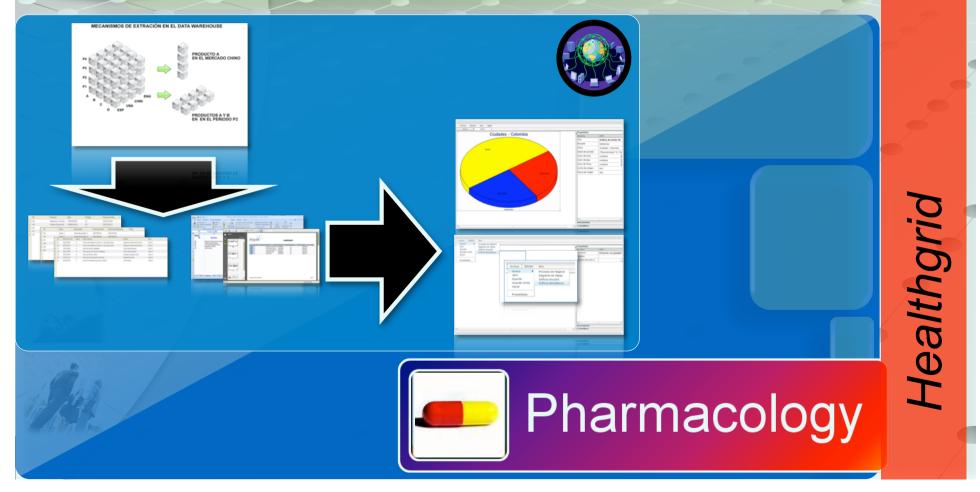
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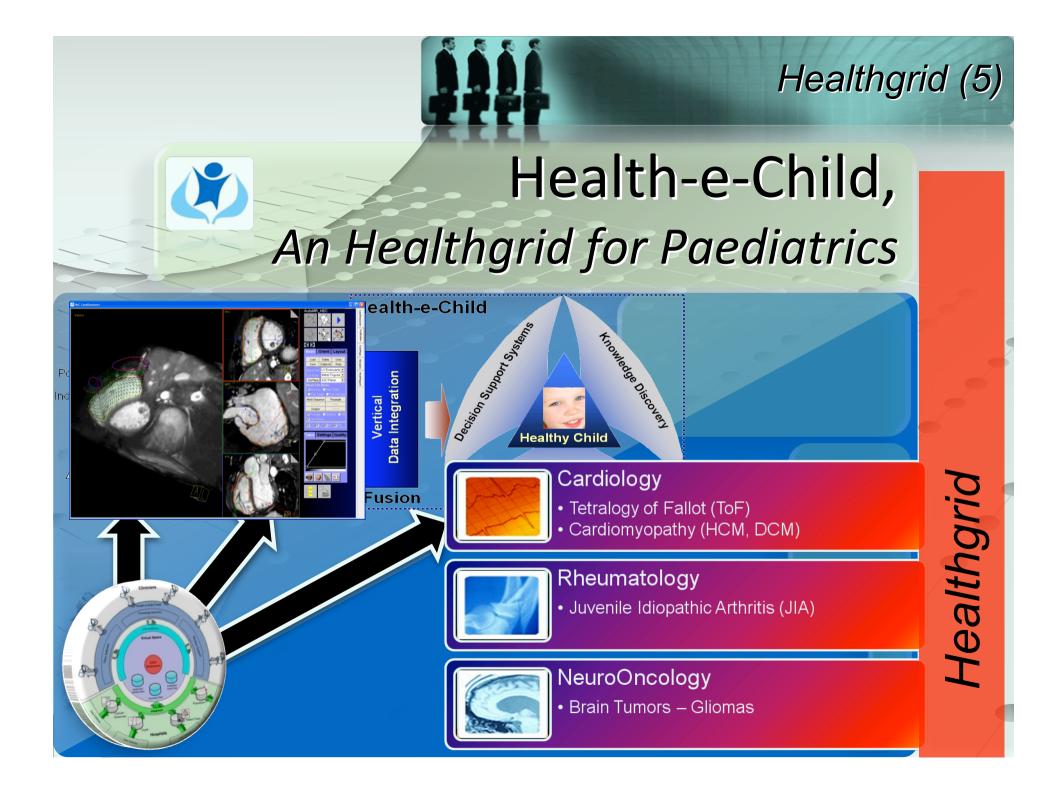


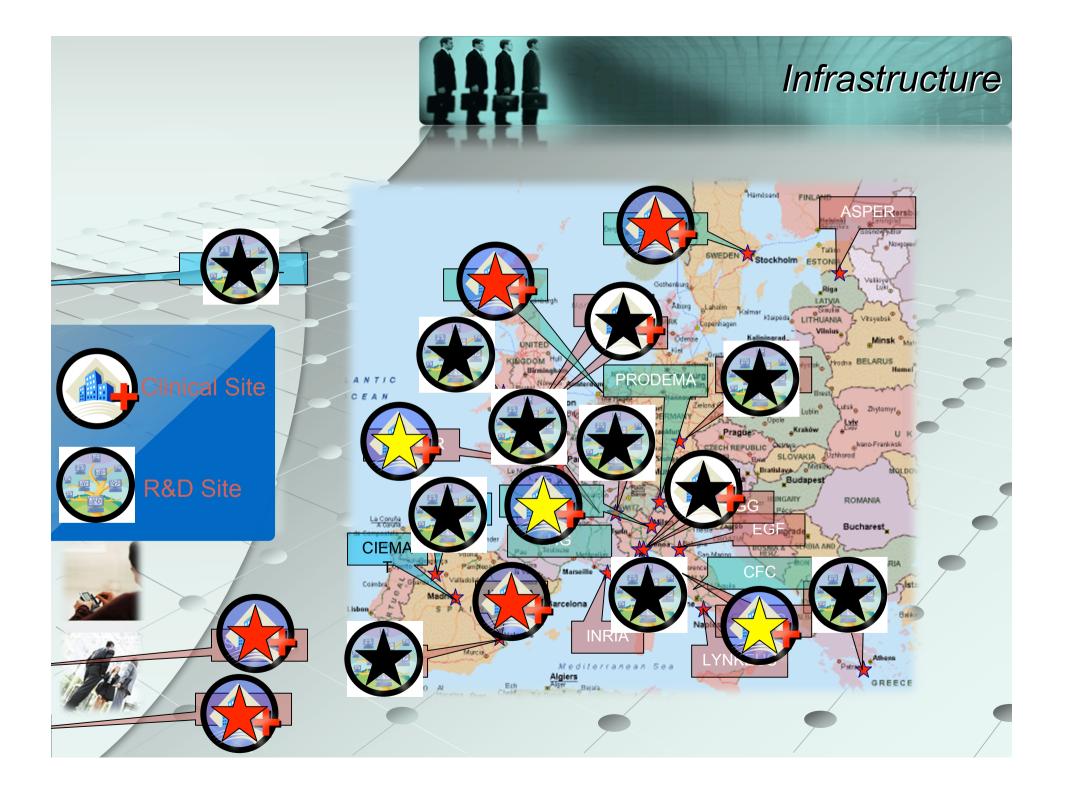
Healthgrid (4)

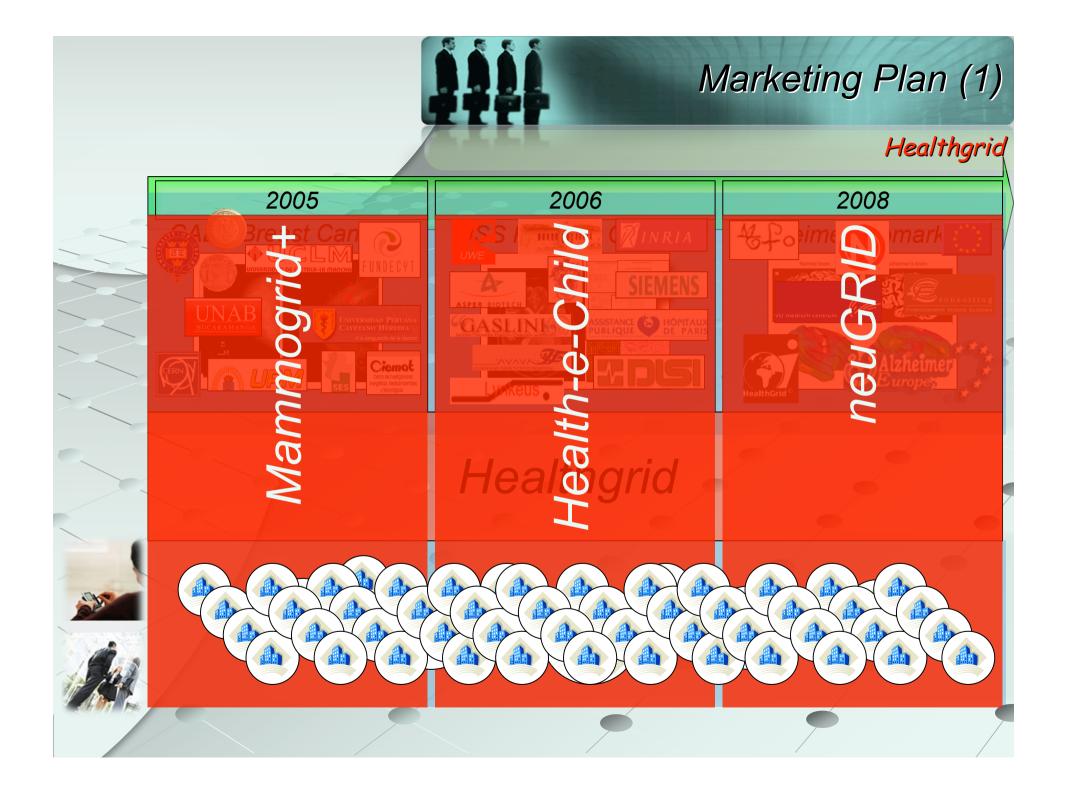
Pharmaco-Epidemiology

Multi-centre Pharma Grid-based Data Warehouse for Epidemiological Studies











Showstoppers in Healthgrids

<u>Research</u>

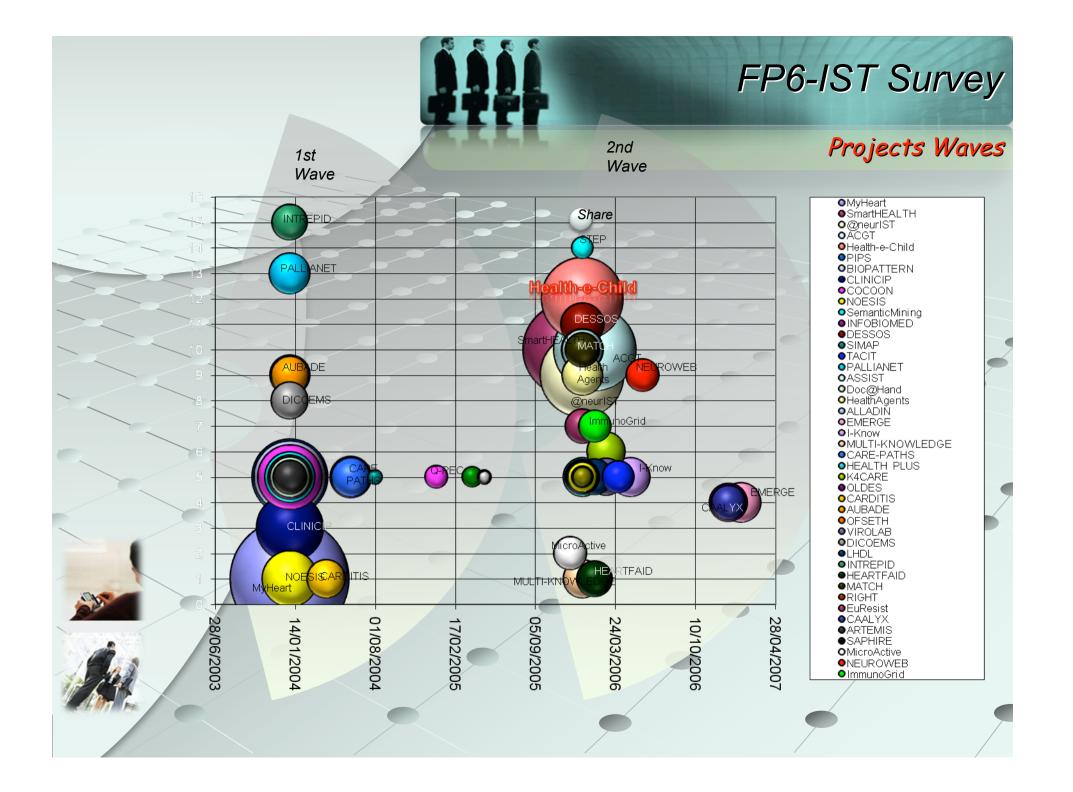
- Biomedical Research in Europe is quite fragmented,
- Lack of collaboration (sometimes motivated by politics and/or IP issues),
- ELSE concerns are not solved, and no concensus,
- No sustainability nor European Infrastructure,
- Lots of overlaping developments,

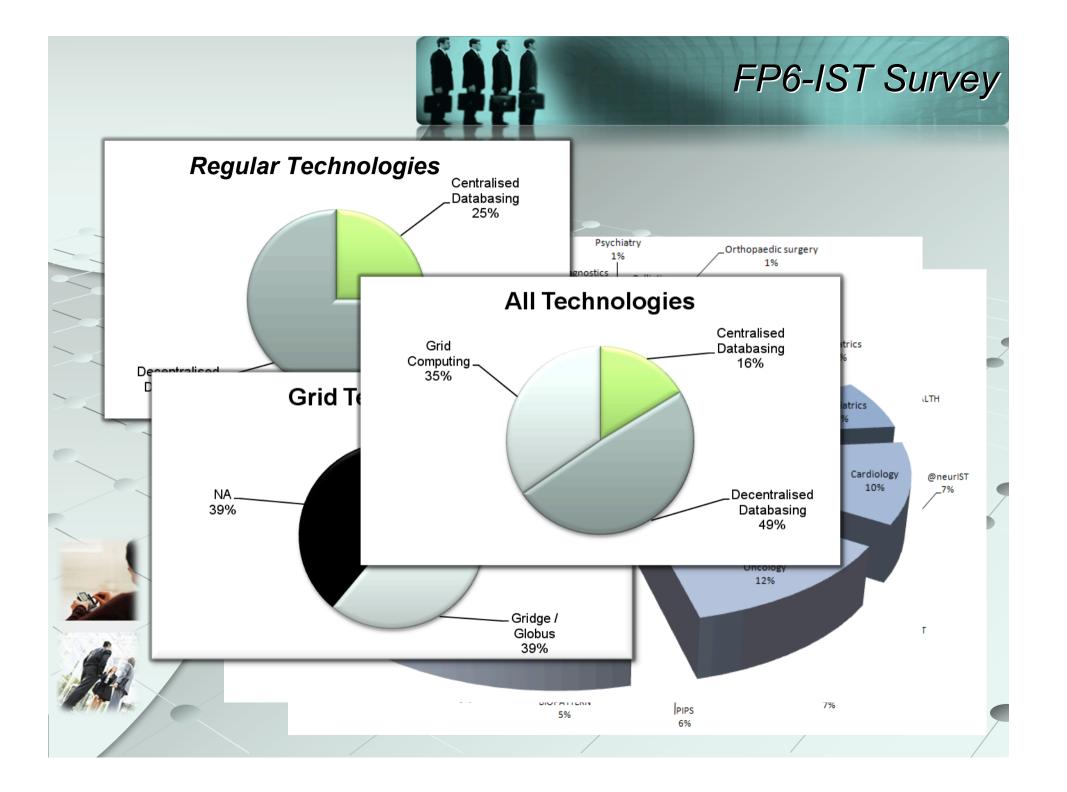
Technology

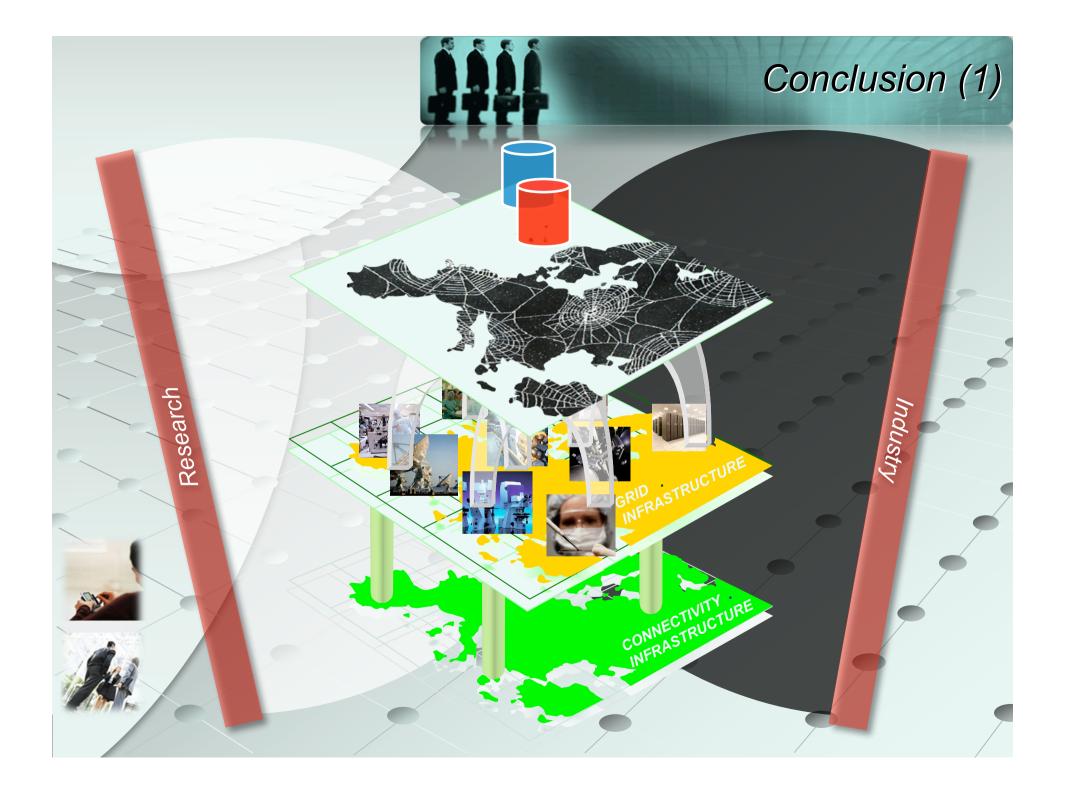
- SOA still not completely enforced,
- Gridification most of the time too intrusive to be beneficial,
- Lack of proper APIs, decrease usability,
- Few reuse of technologies,
- Lack of interoperability in infrastructures,
- Key functionality still missing,

Business

- Research networks forbid business activity,
- Security of the whole thing is difficult to assess and certify,
- Not all Industries confident with Open Source Software







Conclusion (2)

- Slow take-up despite high potential Requires raising awareness and convincing arguments

- Grid technology is not straightforward to apply to healthcare

- Similar requirements (when security/privacy taken aside)
- But Grid initially developed by and for physicists

- Biomedical Research lacks of an (infra)structure to succeed in this adoption and to sustain

Evolution rather than Revolution...



Thank you for your attention



Healthgrid Near Future

SPIDeR,

Super Peta-scale Infrastructure for Distributed e-Health and biomedical Research

Healthgrid