

- » BOOST PERFORMANCE
- » REDUCE COST
- » INCREASE AGILITY
- » ENHANCE CRM
- » SHORTEN TIME TO MARKET
- » DRIVE INNOVATION
- » IMPROVE EFFICIENCY
- » INCREASE ADAPTIVITY
- » ENABLE BUSINESS TRANSPARENCY
- » ENSURE REGULATORY COMPLIANCE



CONSULTING > SOLUTIONS > OUTSOURCING

Personalised Health & Future Internet

Paul Moore – Head of Unit – Atos Research & Innovation

Valencia, April 15th 2010

Future Internet: European perspective



- » Future Internet has become a **central hub** in the research discussions in major ETPs and other European Interest groups.
- » What is “Future Internet”?
 - » Good question – the (as yet) not clearly defined solution to many problems...
- » Why? (technically)
 - » Current situation of Internet is a growing concern in terms of traffic, as a factor of diminished quality of service
 - » Changes in traffic – huge increase in video traffic, 3D to come
 - » Serious security concerns: impersonation, data & money theft, IPRs...
- » Why? (politically)
 - » Position of Europe in relation to USA, Japan, Korea
 - Leaders or followers?
 - » Are there real limitations in current internet?
 - » Is the integration of R&D activities a goal in the current Future Internet trends?
- » Who is addressed?
 - » Telecom Operators
 - » IT Companies
 - » Media Companies
 - » Public Sector
 - » Sectorial companies (such as health)
 - » Users... ALL

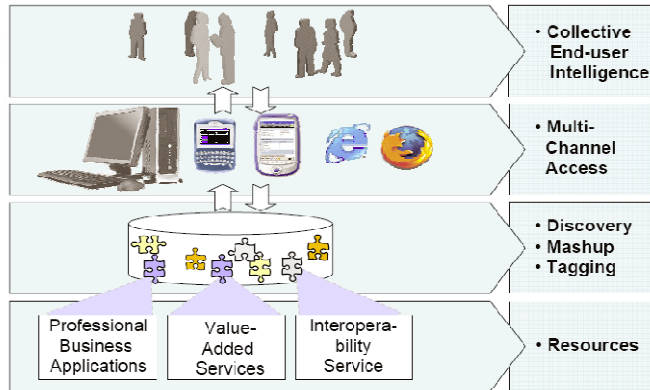
- ❖ Europe must improve standing as a “cutting edge” technological and innovation area
- ❖ Need to create new opportunities for the European continent of the Internet of tomorrow
- ❖ Need to enable the future and not just to see it
- ❖ We should not be happy being a 2nd rate position
- ❖ Competitiveness to be dissociated from business innovation
- ❖ In the long run, what really matters are not the inputs but rather the impact that we have
- ❖ The future is more uncertain, and as such novel approaches and openness are essential to ensure progress

We need to drive Europe forward

Future Internet's current momentum in Europe



Internet of Services



Future content networks & 3D



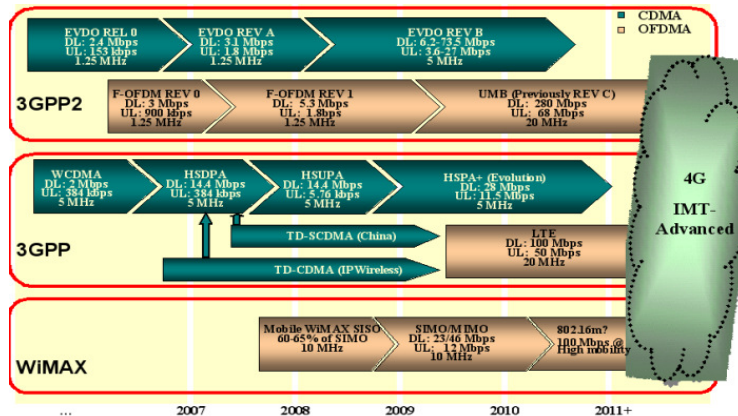
Trust



Security



Internet of Things



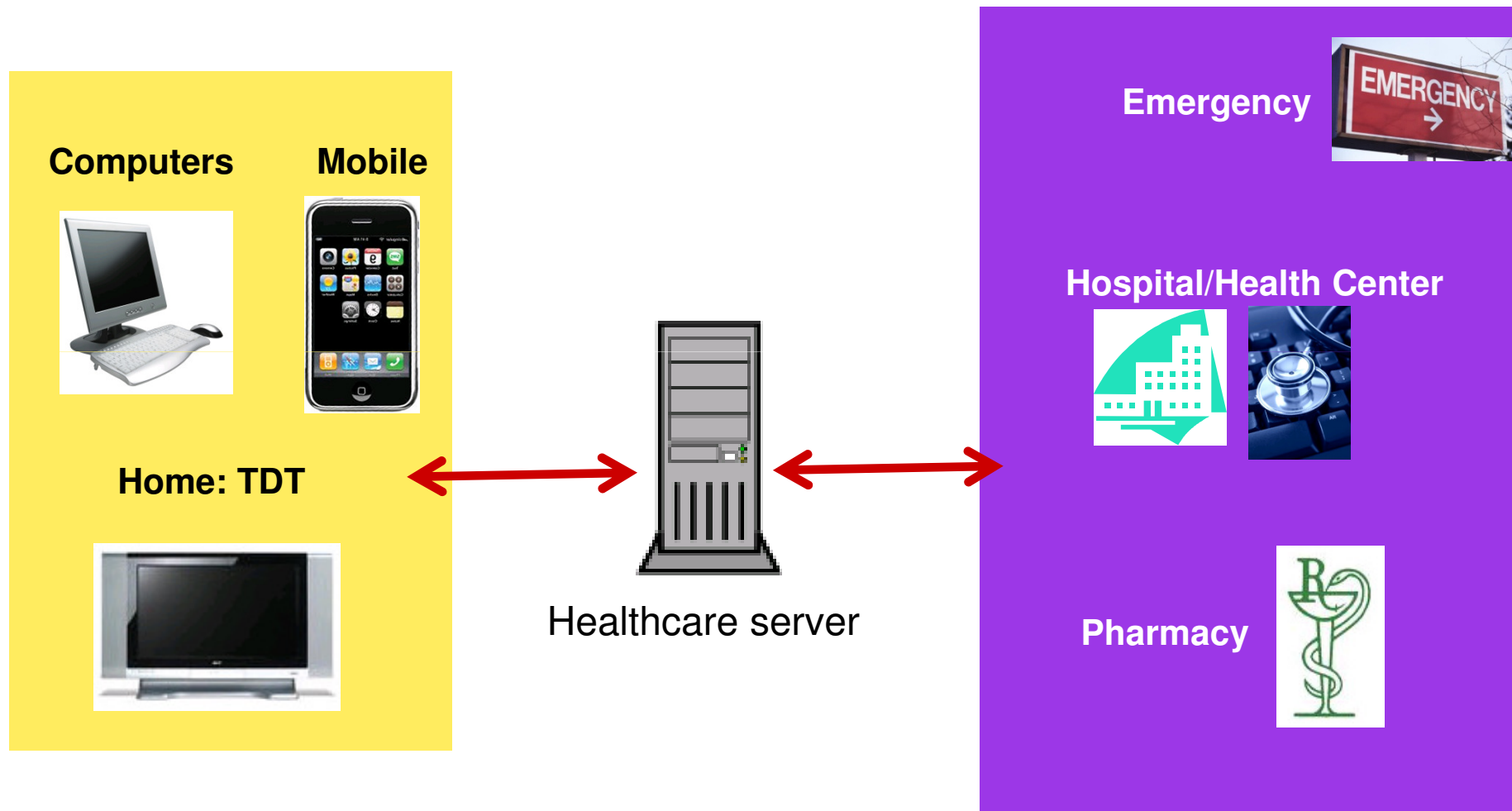
Networks of the Future

Sources: 3GPP, 3GPP2, Qualcomm, WiMAX Forum
<http://www.alexandria.unisg.ch/EXPORT/DL/38496.pdf>
<http://www.itu.int/osg/spu/publications/internetofthings/Second Life>

Personal Health Systems: operations & comm links



Traditional Healthcare IT Model

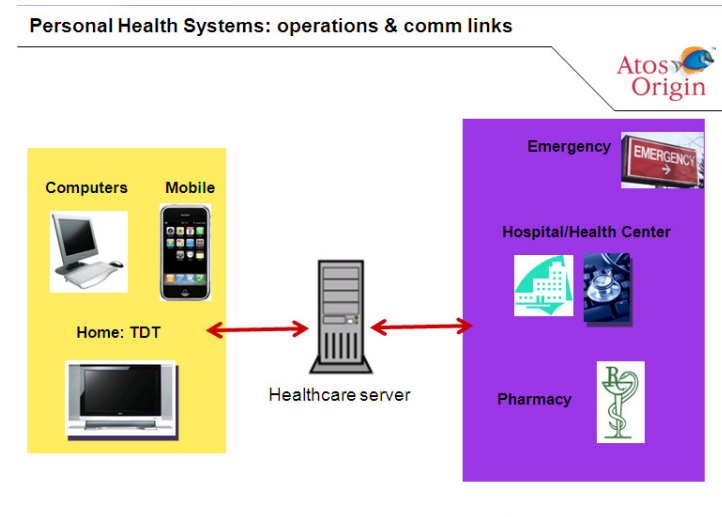
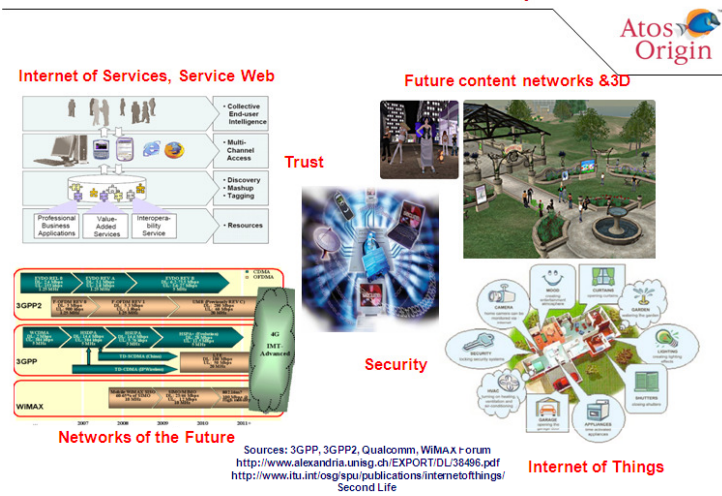


Future of Internet and eHealth



Convergence of these 2 scenarios produces a new paradigm

Future Internet's current momentum in Europe



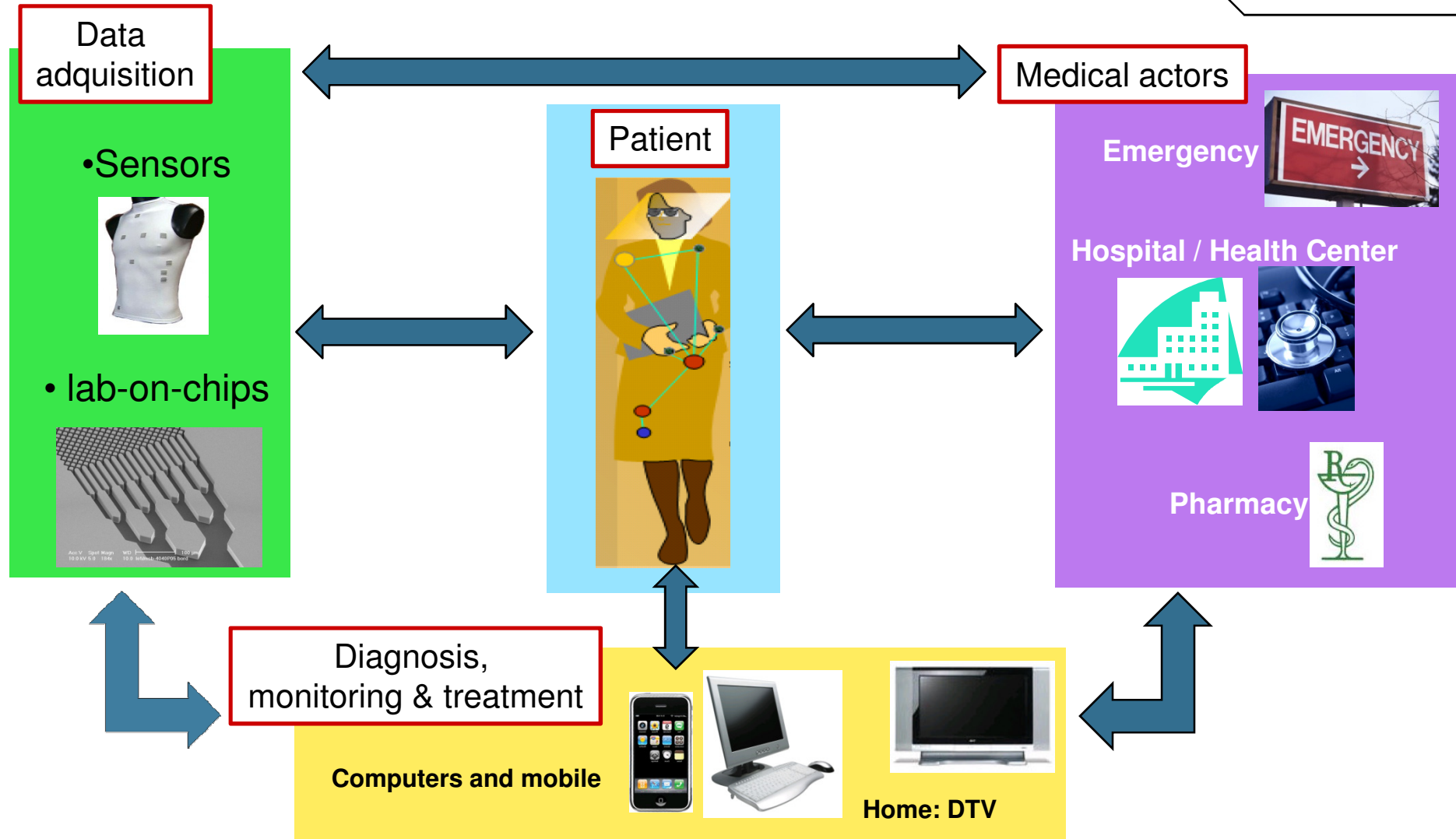
The patient becomes the centre of the healthcare system!

Technology can provide new solutions for the complex scenarios and problems that Health poses

Personal Health Systems: Future perspectives



Future Internet: secure networks, ubiquitous access to data (mobile, wireless, broadband)...

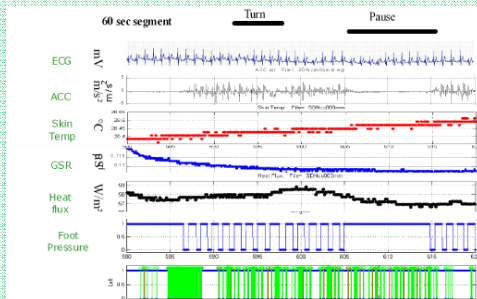


Personal Health Systems: Future perspectives

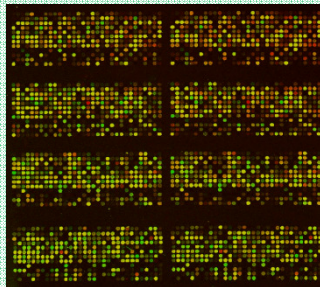


Patient: data acquisition

Physiological data



-omics data



Data integration,
processing & analysis

New algorithms

*Future
Internet
Services*

Integrated
analysis

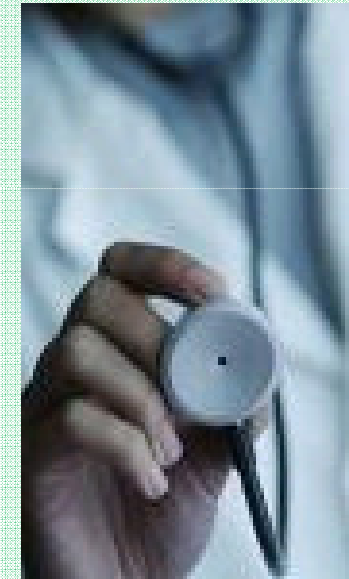
*Future
Internet
Services*

Support diagnosis
decision & treatment
based on personal profile

Future Internet Services

Info communication and feedback

Medical Center



Future Internet: Agenda



15:00–15:10 Welcome & introduction by the host. Paul Moore. ATOS.

15:10–15:25 Future of Internet and Health. Blanca Jordan. ATOS – The eHealth pillar in the FI PPP

15:25–15:45 Marco Vicceconti, Laboratorio di Tecnologia Medica, Istituto Ortopedico Rizzoli - Virtual Physiological Human: a metaphor for the future Internet?”

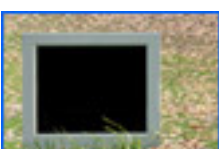
15:45–16:05 Dr. Alberto Sanna, Scientific Institute San Raffaele - E-health, the business case of prevention : lifestyles and wellbeing.

16:05–16:25 Dr. Antonio Campos – The end-user perspective for FI and eHealth

16:25–16:50 Open discussion

16:50–17:00 Conclusions

Thank you



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Future Internet: Round table discussion



- 1) VPH and Future of Internet: Will this marriage be a long relationship? Do you think the full deployment of the Future of Internet paradigm will result in an earlier and easier adoption of the new models and simulations? Do you think this will contribute to a broader adoption of them?
- 2) Lifestyle, related data and Fol, do you see Fol as a catalyser for the introduction of new habits into the population? Do you think the new paradigm may help the involved medical actors to obtain related information?
- 3) What is the users' perception? Doctors, medical staff in general, patients. How are hospitals conceiving the introduction of new services and technologies? What are the adopted business models for these new services?
- 4) Do you see a convergence between the "media internet" and the "health internet" – HD content, 3D, etc.? If, yes, in what areas? If not, why not? Technical reasons? Social/sectorial/political reasons?