

eHealth 2003 - Telematics in Health Care

21-23 October 2003, Dresden

The European perspective beyond eHealth

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from

to

PAST 10 years (1991-2002)

“INFORMATION Technology for HealthCare”

“M to m”

FUTURE 10 years (2003-2014)

“KNOWLEDGE Technology for Health”

“m to M”

1989-1990

FP2

Computers
for Doctors

Budget
20M €

Projects
30

Results
**Feasibility
Study**

1991-1994

FP3

Networks for
HealthCare
Professionals

Budget
100M €

Projects
63

Results
**AIM
Community**

1995-1998

FP4

User Needs
Approach



Budget
140M €

Projects
158

Results
**1st batch of
Products**

1999-2002

FP5

Societal
Demands



Budget
200M €

Projects
125

Results
**EU Health
Telematics
Industry**

DG RTD



1. E-Molecule: Bioinformatics

2. E-cellule/tissue: neuroinformatics

3. E-Individual: Medical Informatics

RESEARCH

Electromagnetic Fields

Others

**TELECOM
POLICIES**

SUPPORT TO IMPLEMENTATION

Regional - National Plans

DG INFSO supports: eHealth 2002 + 2005, eHealth
Ministerial Conference 2005, TEN/TELECOM, etc

DG SANCO supports: Public Health Policy

DG REGIO, RELEX, EMP, ENT... supports

Others

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I. Research Component

I.1.1. FP5 (98-02) “User Friendly IST Programme”

- Citizen, patient, HC professional oriented (flower model)
- Budget 175 Meuro
- Projects 130
- In particular: IHE-E, HINE, Pro Ethel, TM Alliance
- See FP5 report April 2003
- www.cordis.lu



5th FP: KA1: HEALTH DOMAINS

1: CITIZENS

SOCIETAL DEMAND:
"Stay HEALTHY"

1.2: health appliances

SPECIFIC DEMANDS:
at home, at work, abroad,
at leisure, ensure the
citizen can manage
his own health

1.1: health support services

SPECIFIC DEMANDS:
- health promotions
- support to health-related industries

2.1: home care

SPECIFIC DEMANDS:
best home treatment

2: PATIENTS

SOCIETAL DEMAND:
"Safe, cheap, efficient,
follow-up & treatment"

2.2: worldwide telemedicine

SPECIFIC DEMANDS:
1st medical advice
2nd medical opinion

3.1: hc providers

SPECIFIC DEMANDS:
- quality
- integration
- user friendliness
- more mobility

3.2: hc managers

SPECIFIC DEMANDS:
- effectiveness
- hc policies
- resource management

3: HC PROFESSIONALS

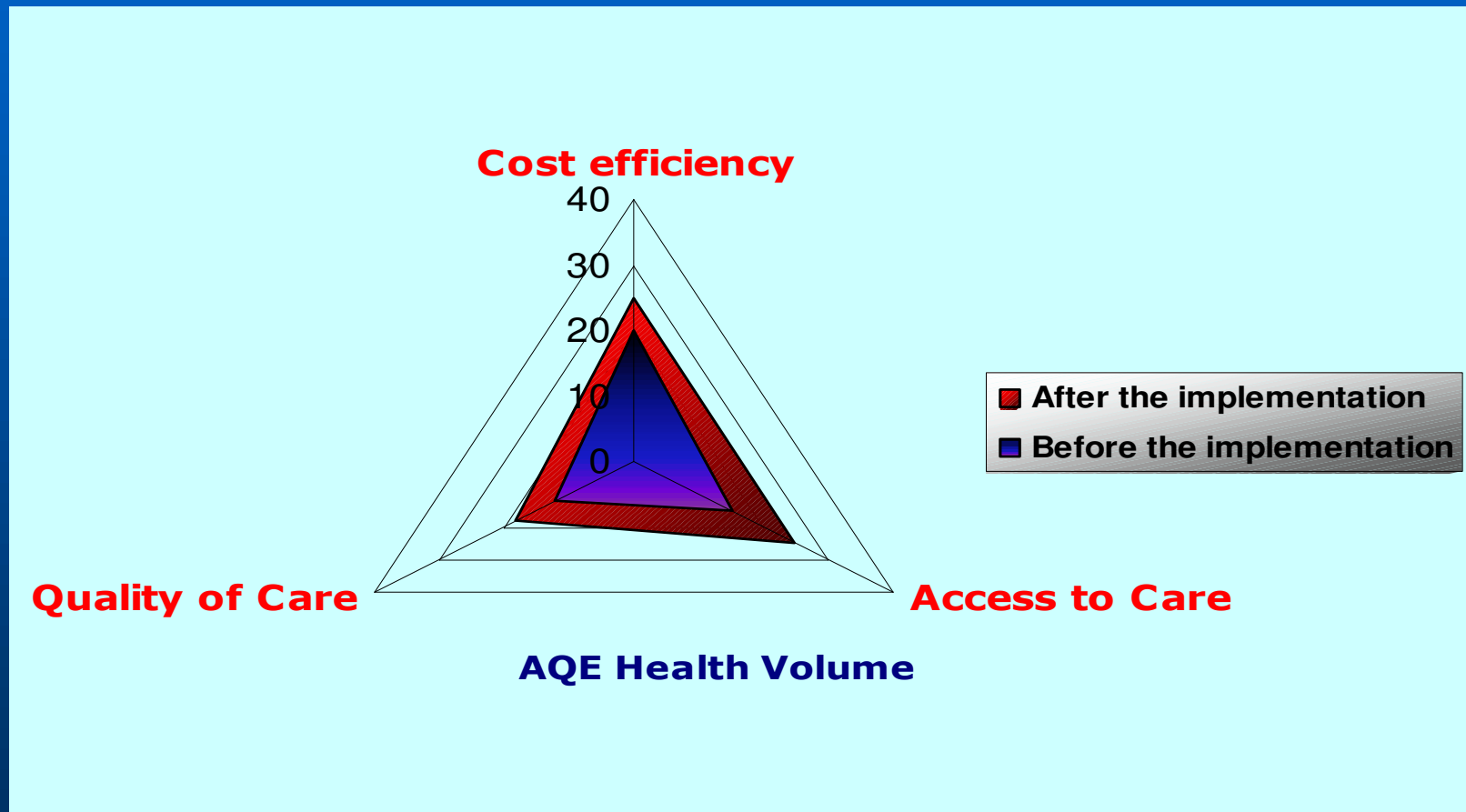
SOCIETAL DEMAND:
"optimisation of human,
financial & infrastructure
resources"

4: INDUSTRIAL AFFAIRS

- standards
- implementation plans
- certification centre

Info - Ethics
e-EUROPE

I.1.2 Research FP5: AQE methodology (Access, Quality, Economy)



I.1.3 Research Outputs:

eHealth Conference May 2003 : Winners

THEME 1 – Networks

Winners: * **EVISAND** - Entorno Virtual de Atencion de Salud de Andalucia,
Regional Ministry of Health, Seville, Spain



**POWERFUL TOOL TO ENSURE EQUAL AND TIMELY ACCESS TO HIGH QUALITY
HEALTH CARE FOR ALL ANDALUSIAN INHABITANTS**

* **SJUNET** - The National ITinfrastructure for Healthcare,
Carelink, Stockholm, Sweden

**ALLOWS THE SECURE TRANSMISSION OF HEALTH CARE DATA AND
APPLICATIONS ON AN IP-NETWORK SEPARATE FROM THE INTERNET**



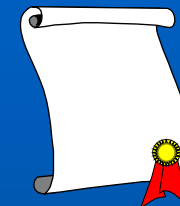
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I.1.3 Research Outputs:

eHealth Conference May 2003 : Winners

- * HYGEIAnet** - The Regional Health Information Network of Crete,
Venizeleion Regional Hospital, Crete, Greece



OUTCOME OF A SYSTEMATIC EFFORT TOWARD THE DESIGN, DEVELOPMENT AND DEPLOYMENT OF ADVANCED eHEALTH SERVICES AT VARIOUS LEVELS OF THE HEALTHCARE HIERARCHY, INCLUDING PRIMARY CARE, PRE-HOSPITAL HEALTH EMERGENCY MANAGEMENT, AND HOSPITAL CARE

- * MedCom** - The Danish health care network, *Venizeleion Regional Hospital, Odense, Denmark*

NATIONAL PROGRAM FOR ENABLING ELECTRONIC COMMUNICATION BETWEEN ALL PARTIES IN THE HEALTH AND SOCIAL SECTOR - BOTH ADMINISTRATIVE AND CLINICAL



I.1.3 Research Outputs:

eHealth Conference May 2003 : Winners

THEME 2 - Health Professionals

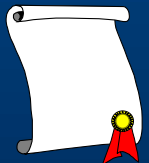
Winners:

- * **COHERENCE** - Component-based Health Reference architecture for Network CarE, Information System for a successful Hospital Restructuration *Georges Pompidou European Hospital (HEGP), France*



TO CONTROL COSTS THROUGH ORGANIZATIONAL INNOVATION, TO IMPROVE THE QUALITY OF THE PATIENT ADMISSION PROCESS, TO DECREASE AND REDIRECT THE NUMBER OF BEDS, IMPROVING THE OVERALL HEALTH CARE OFFERING

- * **SURGETICA** - Computer Assisted Medical Interventions & SURGETICS, *TIMC-IMAG Laboratory, Grenoble University Hospital, France*



MULTIFUNCTIONAL SURGICAL STATION WHICH PROVIDES: PRE-OPERATIVE AND INTRA-OPERATIVE IMAGE ACQUISITION, INTERVENTION PLANNING, AND SURGICAL NAVIGATION



1.1.3 Research Outputs:

eHealth Conference May 2003 : Winners

THEME 3 – Patients

*** BHC Project - Boario Home Care Project,**

Salvatore Maugeri Foundation, Pavia, Italy



THE SYSTEM PROVIDES GENERAL PRACTITIONERS, CARDIOLOGISTS AND PATIENTS WITH DEVICES CAPABLE OF MONITORING A SERIES OF ELECTROCARDIOGRAPHIC SIGNALS

THEME 4 – citizens

Winner: * NHS Direct Online web-site - NHS Direct Online,

Hedge End, Nr Southampton, UK



NHS DIRECT ONLINE PROVIDES HIGH QUALITY HEALTH ADVICE AND INFORMATION ON THE INTERNET. IT'S UNIQUE IN BEING THE ONLY UK WEBSITE SUPPORTED BY A 24X7 NURSE-LED HELPLINE

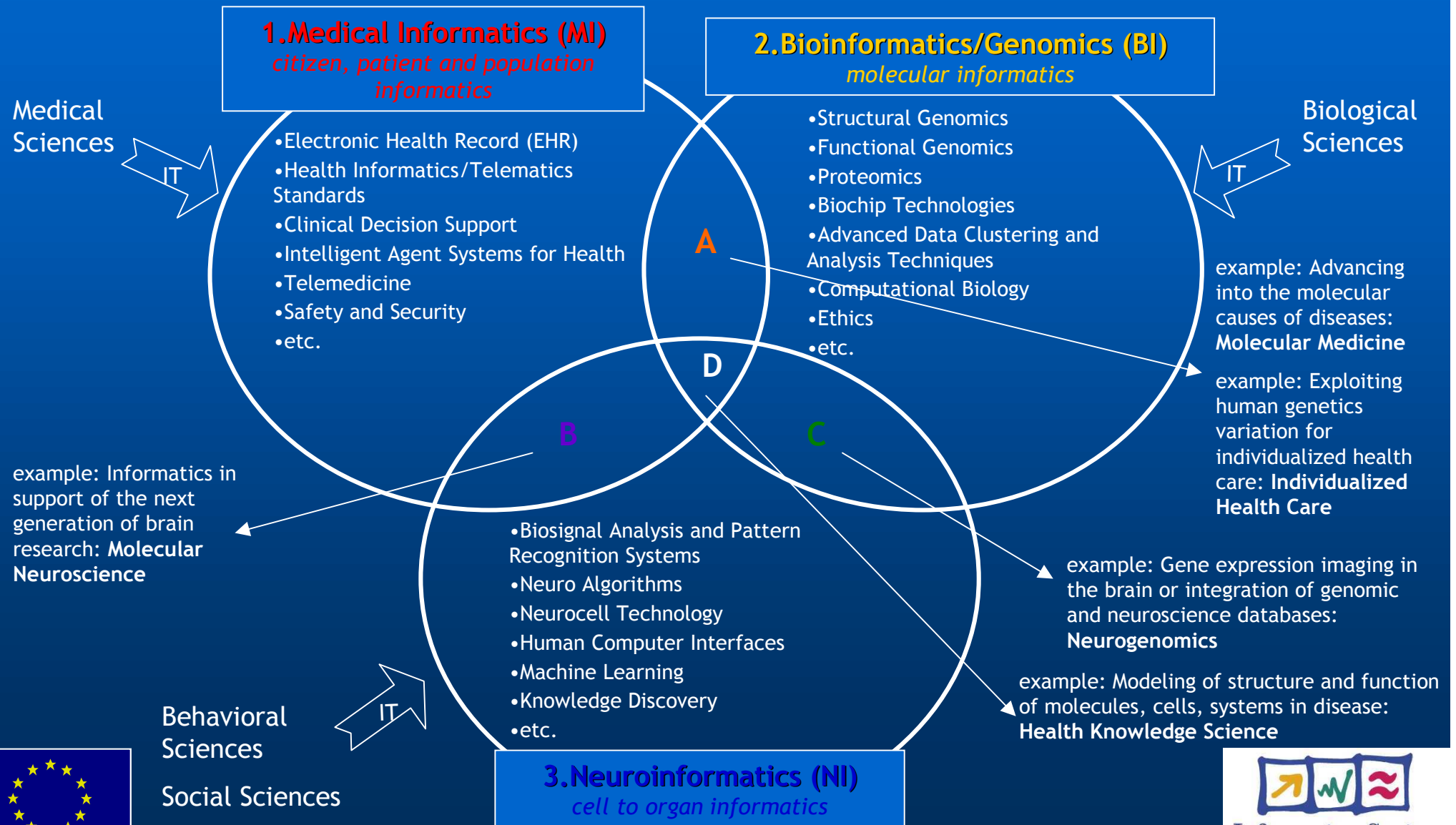


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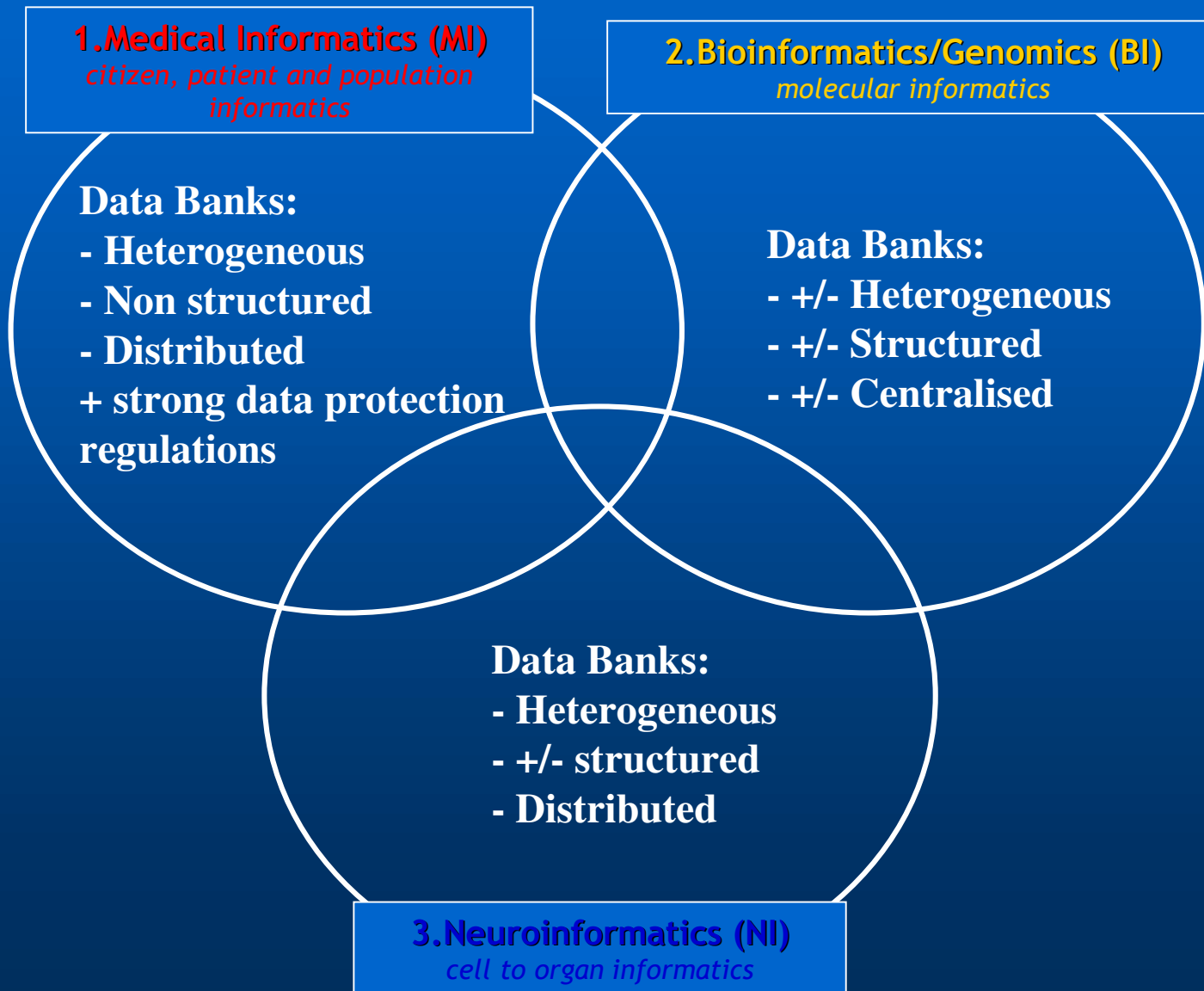
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I.2.1.1. Research FP6: New Paradigm



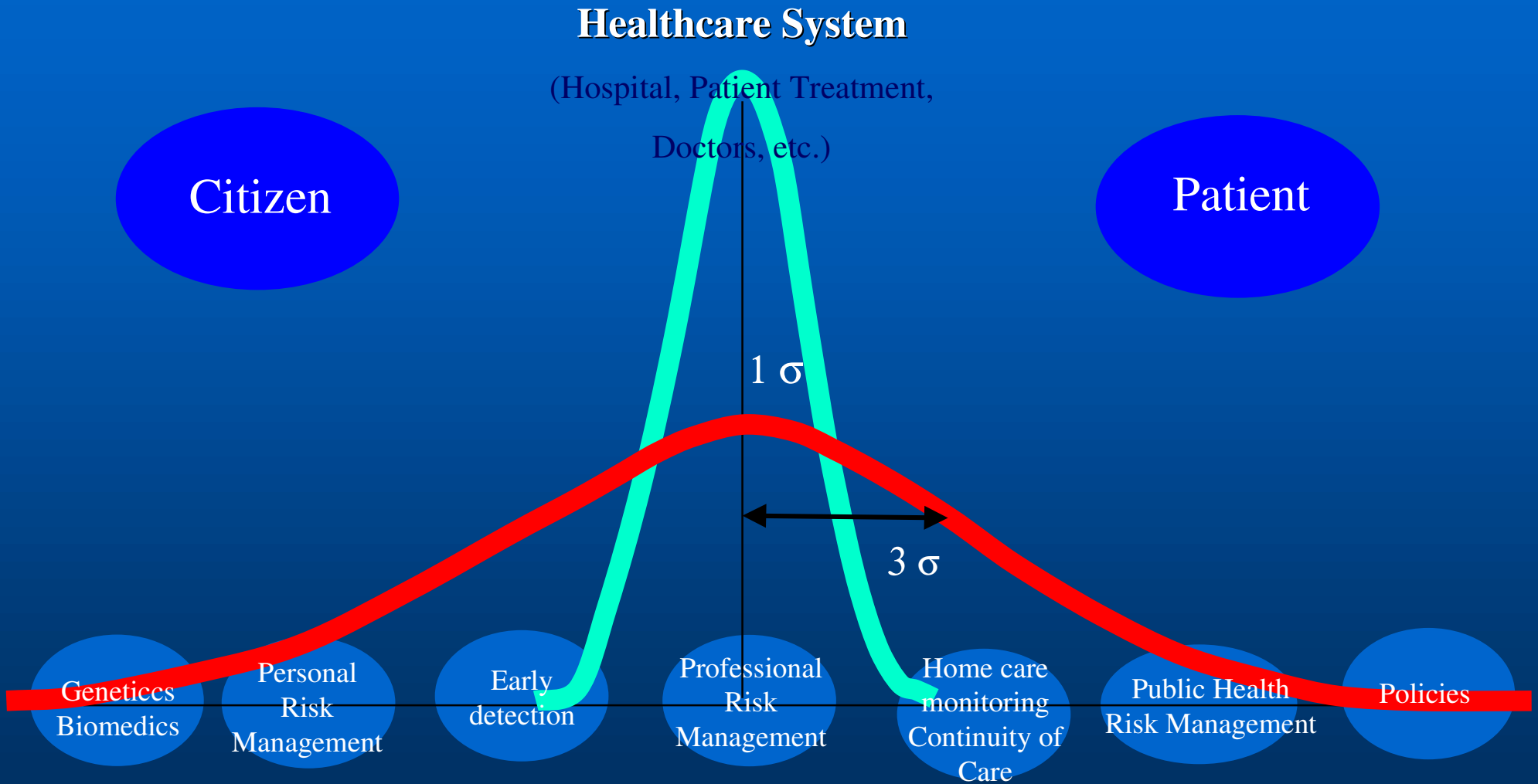
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I.2.1.2. Research FP6: New Paradigm



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I.2.1.3. Research: The “6 s approach” in e-Health



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I.2.2. Research FP6 Call 1: Strategic Objective eHealth

Submitted 175 proposals requesting 1,2 Billion Euro
Invited for negotiations: 21 Proposals requesting 87 Million Euro

Focus 1: Ubiquitous Management of Citizen's Health Status

Submitted: 10 IP, 2 NoE, 24 STREPS, 3 SSA

Invited for negotiations: 2 IPs, 3 STREPS

Focus 2: Systems for Health professionals

Submitted: 33 IP, 6 NoE, 63 STREPS, 8 SSA, 4 CA

Invited for negotiations: 3 IPs, 9 STREPS, 1 SSA

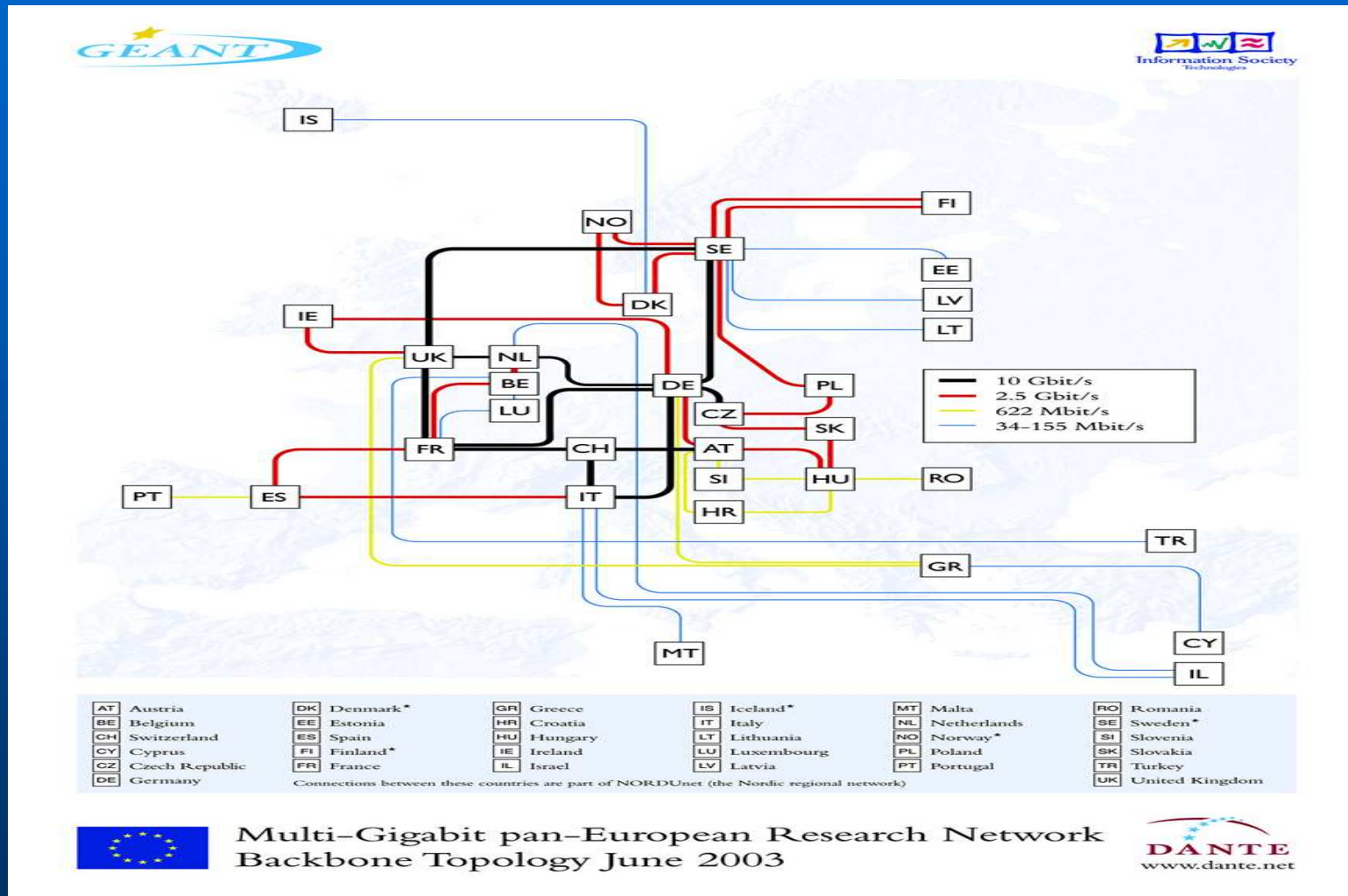
Focus 3: Supporting synergy between medical Informatics, Bioinformatics and Neuroinformatics

Submitted: 2 IPs, 13 NoE, 7 STREPS

Invited for negotiations: 3 NoEs



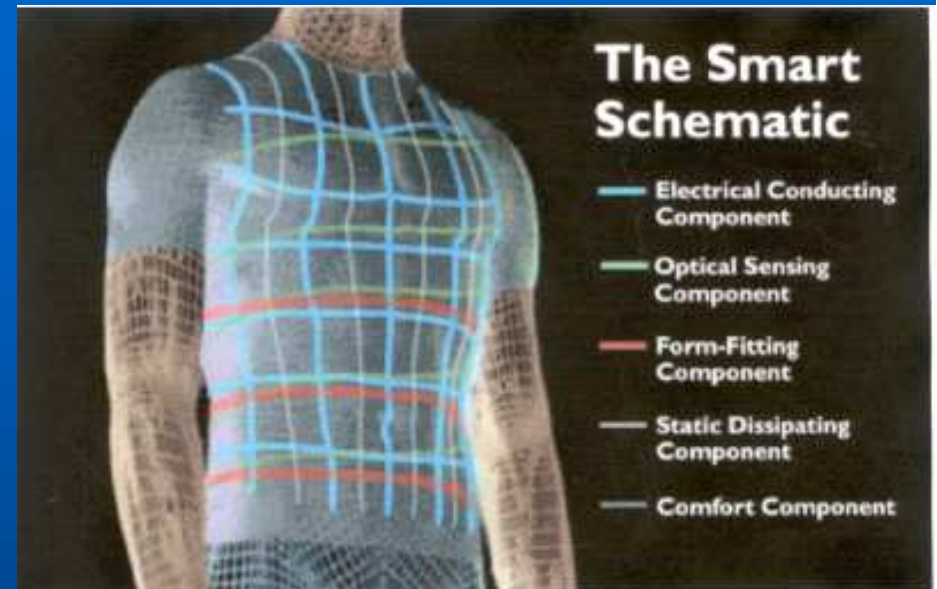
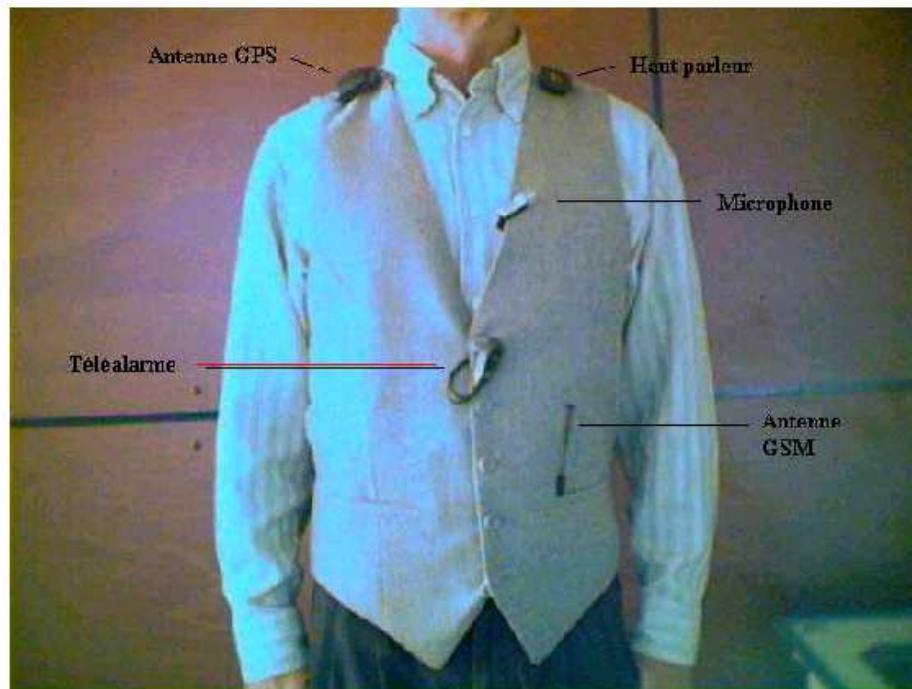
1.2.3. Research: Géant & HealthGrid



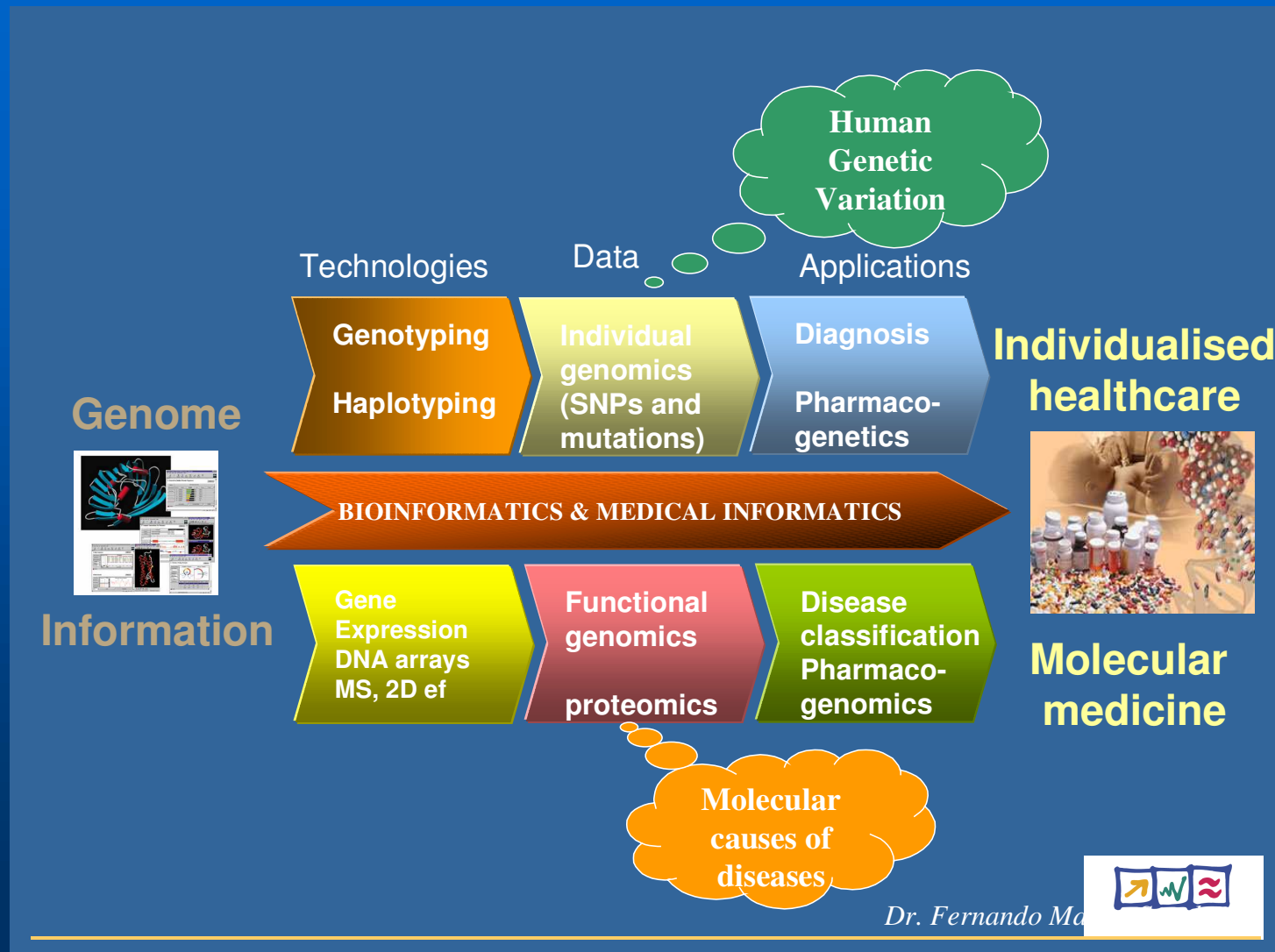
I.2.4. Research: Intelligent clothes



VTAMN Background (1) Tele-assistance Jacket (1999 - CNES)



1.2.5. Research: Biomedical Informatics



I.3. FP6 Next opportunity

Overview of Calls for Proposals foreseen in the Work Programme 2003-2004

Three calls published :

Call 1 : closure April 24, 2003 budget 1070 Meuro (*),

Call 2: closure October 15, budget 525 Meuro,

Call 3 : open, closing December 31, 2004, budget 60 Meuro (*),

eTEN - October 2003

Future and Emerging Technologies – Open Call

+ DG RTD Calls

« Contribution to European Research Area (ERA) »



II. Support to Implementation: European eHealth Area (EeHA)

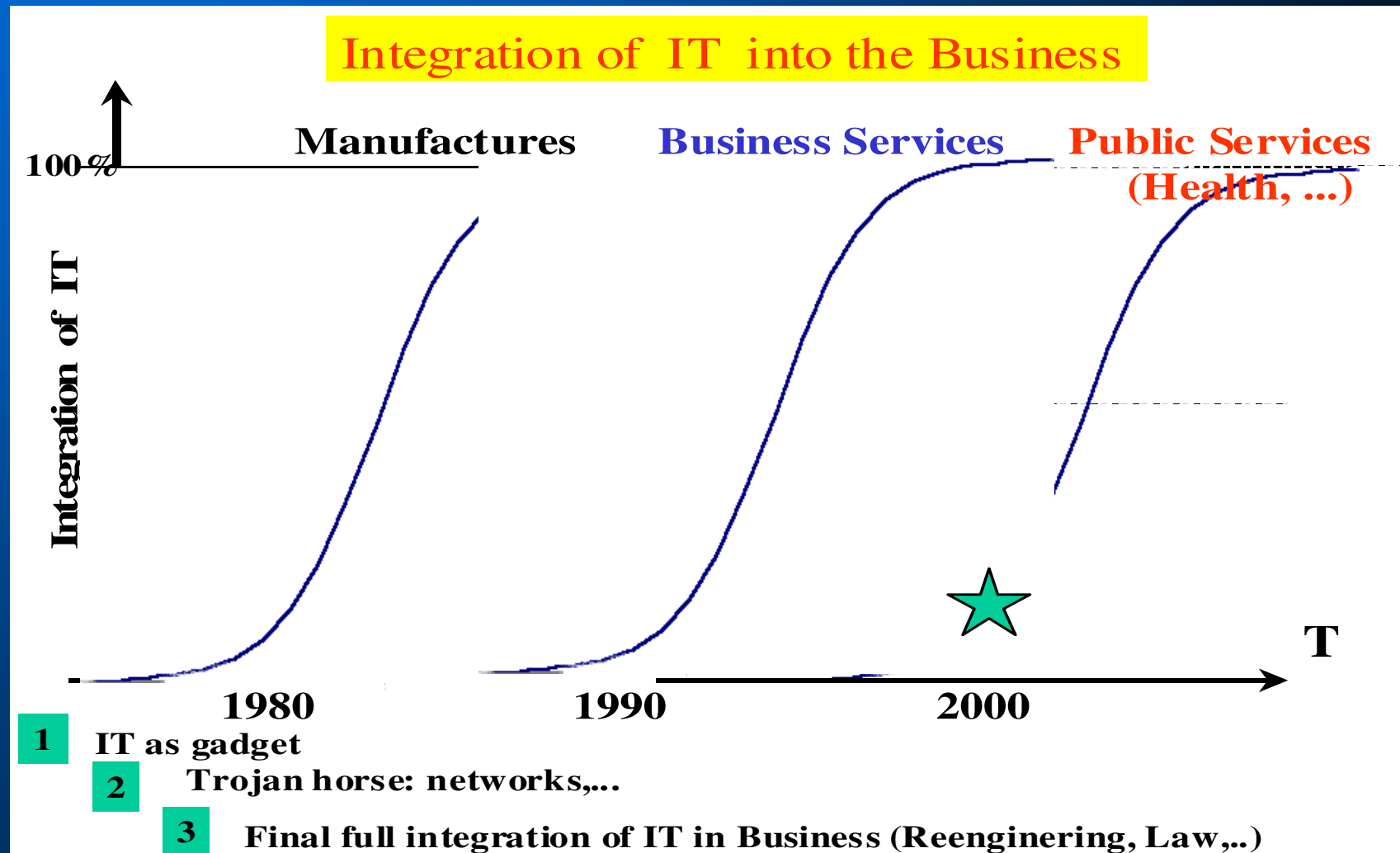
II.1. Ministerial Declaration Brussels, 22 May 2003

Ministers of EU Member States, Acceding and Associated countries, as well as EFTA countries met on 22nd May 2003 in the framework of the eHealth 2003 conference organised jointly by the European Commission and the Greek Presidency of the Council...

in eHealth Book - IOS Press n°100 - 2003



II.2.1. Support to Health System Reforms



Health: Service Industry: 80 % Human Costs

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II.2.2. EeHA: European eHealth Area

- **Demand:** politicians, industrialists, users
- **Tools:**
 - * Administrative: communication, eEurope 2005
 - * Legal: court of justice decret: mobility of patient
 - * Technical: standardisation (DG ENT)
 - * Social: eHealth 2nd conference (Cork), 5-6 May 2004
 - * Financial: structural funds, interreg funds, cohesion funds, social funds, MODINIS, DG SANCO Public Health funds, etc.
 - * Educational
- **Open method** of co-ordination with the Member States
- **International collaboration**



II.3. Legal aspects

KEY LEGISLATIVE AND REGULATORY ISSUES IN eHEALTH

The table below represents a list of the current legislative issues regarded as important in the implementation of eHealthcare tools and applications. The table does not purport to be exhaustive, nor to represent a ranking of issues. *The table is not an official document.*

Key Issue	Current and Forthcoming Legislation	Implications for eHealth
Data Protection	<ul style="list-style-type: none"> ➤ 95/46/EC data Protection ➤ 2002/58/EC data protection in Electronic Communications ➤ Data Protection working Party recommendation 2/2001 ➤ CoE recommendation Medical DP 13/2/97 	Duties of: Consent, management need to employ the correct professional Duties to inform
Digital Signatures	<ul style="list-style-type: none"> ➤ 99/93/EC directive on Digital Signatures 	Key importance in Health Professional Cards and Patient Data Cards MS agreements on methods of encryption
Consumer Protection	<ul style="list-style-type: none"> ➤ 2001/20/EC Clinical Trials Directive ➤ 2000/31/EC On Electronic Commerce ➤ 97/7/EC protection of consumers in distance contracts ➤ 85/374/EEC Product Liability for Defective Products ➤ 92/59/EEC General Product Safety 	Note Clinical trials include eTrials Note 2000/31/EC art 14 includes possibility of ban on distance selling of medicinal products HCP, health Authorities and producers must be able to comply with Product Liability legislation as well as eCommerce legislation
Guidance Documents	<p>Communication on Quality Criteria for Health related Websites (2002)</p> <p>Communication on on the Web Accessibility Initiative (2001)</p> <p>Communication on European Health Insurance Cards (2003)</p> <p>High Level Committee on Health report on Health telematics (2003)</p>	<p>Guidance on good conduct for webmasters</p> <p>Guidance on accessibility of web-based information</p> <p>Setting the timetable for the European Health Insurance card which MS may choose to develop into a smart card</p>

Legislation Table (version 8 June 2003)

Produced by: Petra Wilson DG Information Society C4

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II.4. Guidelines for implementation

E.g.:

1. National Initiative for TeleHealth

NIFTE Guidelines - Canada 2003, Uni. of Calgary

2. Open method of coordination (LSE)

3. Technological plate-form (ISTAG)



II.5. Education

eHealth High Level Course

(Maastricht Institute)



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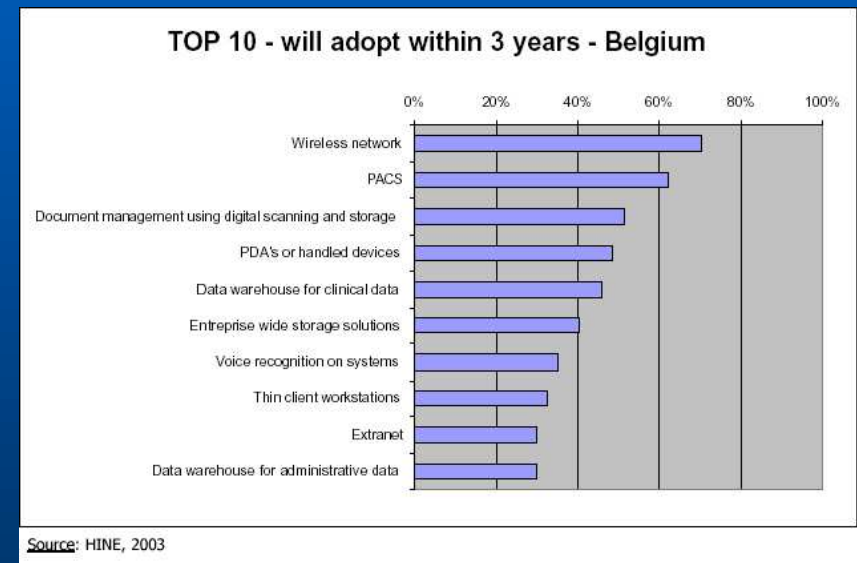
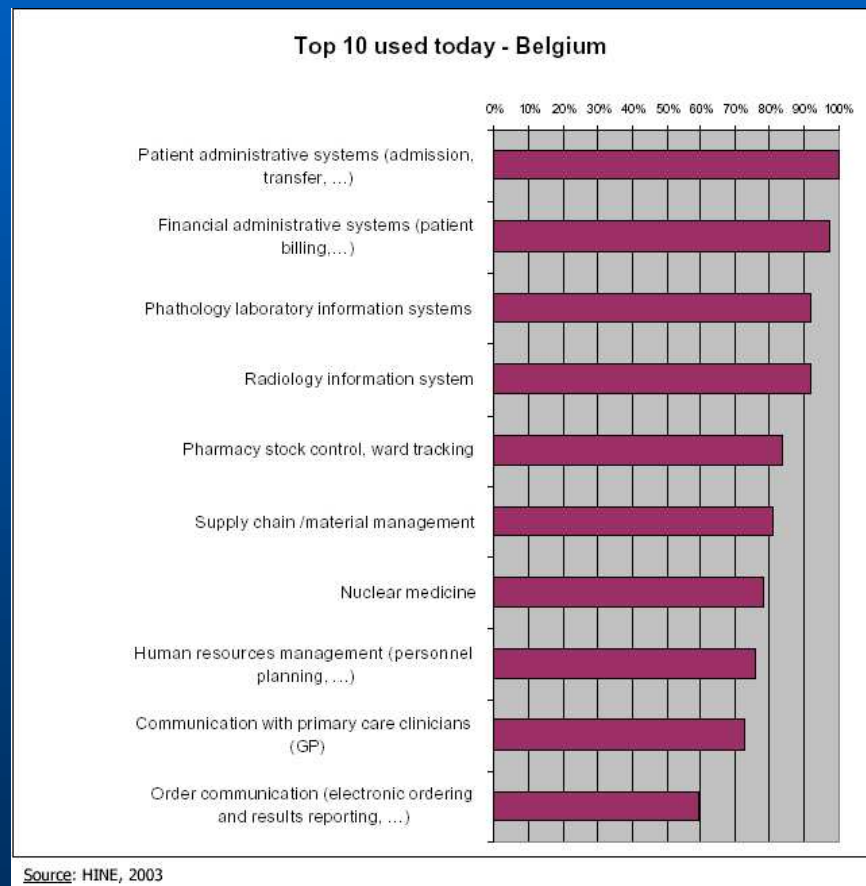
II.6. Financial support

- Structural Funds
- BEI/WB/BERD
- etc.



II.7. National Plans for implementation

- HINE Results - ex: Belgium



II.8. International initiatives

- Baltic countries initiatives
- New applicant countries initiatives (Romania)
- WHO/CISCO: Health Academy
- WSIS: Geneva December 2003
- DG SANCO Public Health Programme, etc.



III. Conclusion

III.1. Towards eHealth industry

- 5 % of Healthcare expenditure by 2010
- Products, systems and services
- Positively evaluated
- + code of conduct, reimbursement process, acceptability, etc.

We need regional, national and international plans for supporting implementation



III.2. Time table

- Optimistic: Change within 10 years
- Pessimistic: Change within one generation
- Realistic: Nothing without strong incentives (legal, administrative, financial)



III.3. eHealth Industry/Pharmaceutical collaboration

- Research: 3/4D structure of molecules, Healthgrid, etc.
- Tracability of patients/diseases
- Optimisation of diagnostic/therapeutic tools
- Services for the citizen



III.4. eHealth is:

The today instrument for productivity gain in the existing Healthcare delivery systems.

The tomorrow backbone of the renewed citizen centered regional health delivery systems.

