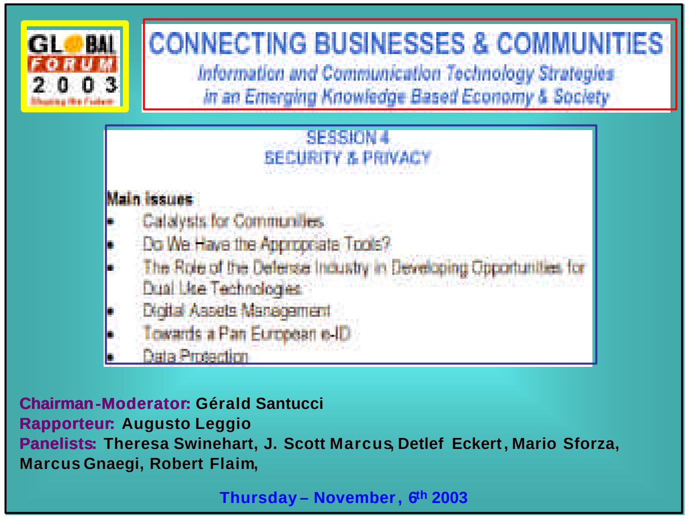


GLOBAL FORUM 2003 Shaping the Future

CONNECTING BUSINESSES & COMMUNITIES

Information and Communication Technology Strategies in an Emerging Knowledge Based Economy & Society

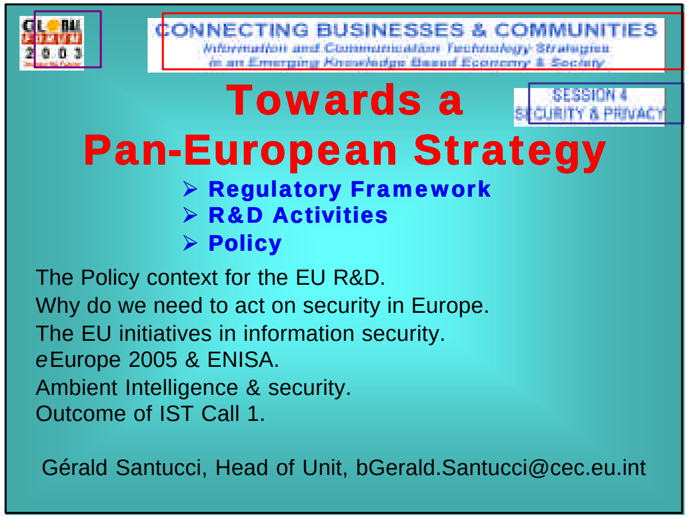
SESSION 4
SECURITY & PRIVACY

Main Issues

- Catalysts for Communities
- Do We Have the Appropriate Tools?
- The Role of the Defense Industry in Developing Opportunities for Dual Use Technologies
- Digital Assets Management
- Towards a Pan European e-ID
- Data Protection

Chairman-Moderator: Gérald Santucci
Rapporteur: Augusto Leggio
Panelists: Theresa Swinehart, J. Scott Marcus, Detlef Eckert, Mario Sforza, Marcus Gnaegi, Robert Flaim,

Thursday – November, 6th 2003



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SESSION 4
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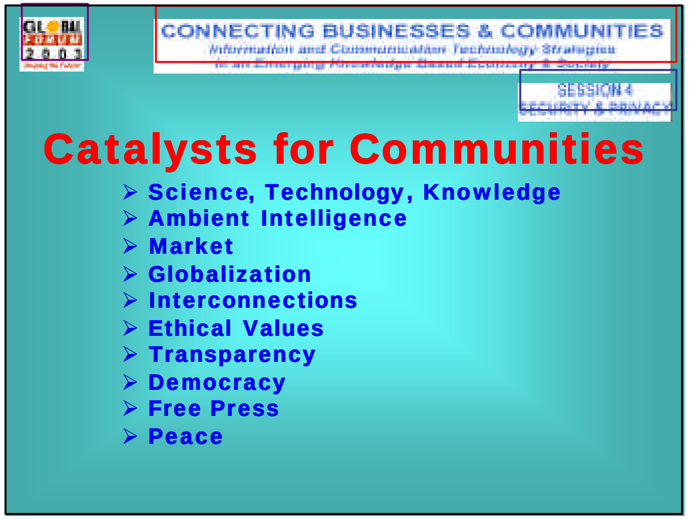
Towards a Pan-European Strategy

- ➢ **Regulatory Framework**
- ➢ **R&D Activities**
- ➢ **Policy**

The Policy context for the EU R&D.
Why do we need to act on security in Europe.
The EU initiatives in information security.
*e*Europe 2005 & ENISA.
Ambient Intelligence & security.
Outcome of IST Call 1.

Gérald Santucci, Head of Unit, bGerald.Santucci@cec.eu.int



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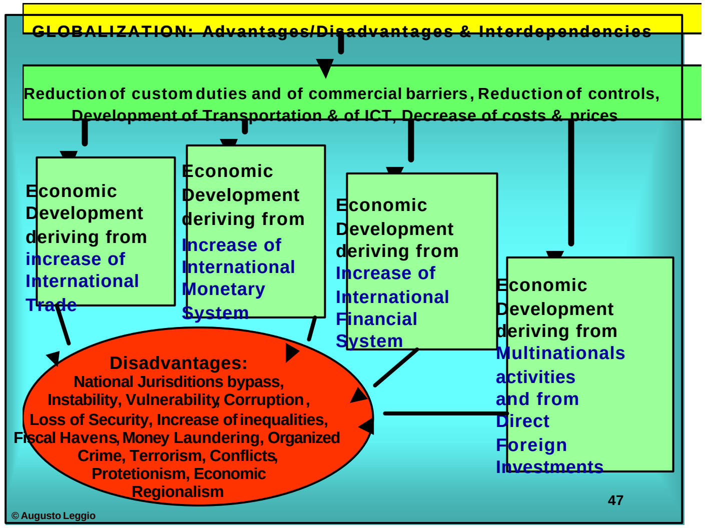
Catalysts for Communities

- ➢ **Science, Technology, Knowledge**
- ➢ **Ambient Intelligence**
- ➢ **Market**
- ➢ **Globalization**
- ➢ **Interconnections**
- ➢ **Ethical Values**
- ➢ **Transparency**
- ➢ **Democracy**
- ➢ **Free Press**
- ➢ **Peace**



GLOBALIZATION: Advantages/Disadvantages & Interdependencies

Reduction of custom duties and of commercial barriers, Reduction of controls, Development of Transportation & of ICT, Decrease of costs & prices

Economic Development deriving from increase of International Trade

Economic Development deriving from Increase of International Monetary System

Economic Development deriving from Increase of International Financial System

Economic Development deriving from Multinationals activities and from Direct Foreign Investments

Disadvantages:
National Jurisditions bypass, Instability, Vulnerability, Corruption, Loss of Security, Increase of inequalities, Fiscal Havens, Money Laundering, Organized Crime, Terrorism, Conflicts, Protetionism, Economic Regionalism

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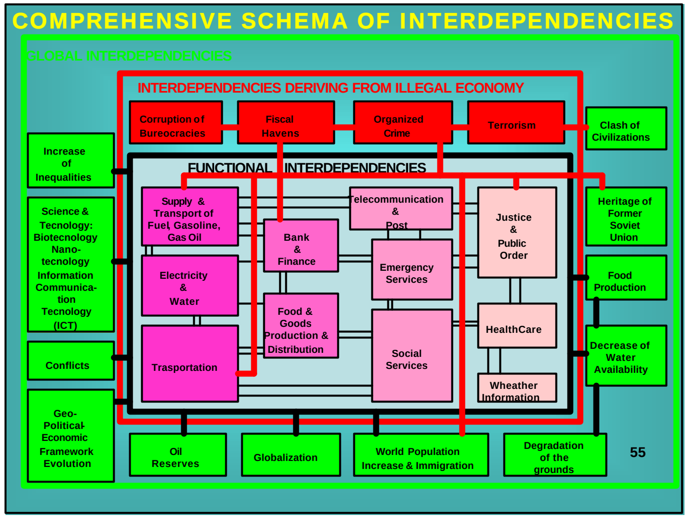
COMPREHENSIVE SCHEMA OF INTERDEPENDENCIES


GLOBAL INTERDEPENDENCIES
INTERDEPENDENCIES DERIVING FROM ILLEGAL ECONOMY
Corruption of Bureocracies
Fiscal Havens
Organized Crime
Terrorism
Clash of Civilizations
Increase of Inequalities
FUNCTIONAL INTERDEPENDENCIES
Supply & Transport of Fuel, Gasoline, Gas Oil
Telecommunication & Post
Justice & Public Order
Bank & Finance
Emergency Services
Electricity & Water
Food & Goods Production & Distribution
HealthCare
Trasportation
Social Services
Wheather Information
Science & Tecnology: Biotecnology Nano-tecnology Information Communica-tion Tecnology (ICT)
Conflicts
Geo-Political-Economic Framework Evolution
Heritage of Former Soviet Union
Food Production
Decrease of Water Availability
Oil Reserves
Globalization
World Population Increase & Immigration
Degradation of the grounds
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Security and Privacy Catalysts ICANN's Role

Within ICANN's areas of responsibility, a catalyst from which the ICANN community works together to address security issues proactively or as they arise. This work is done through ICANN's public processes and the appropriate standing committees.

–Security and Stability Advisory Committee

–President's Privacy Committee

Theresa Swinehart
Counsel for International Legal Affairs
ICANN

Challenges to the Deployment of Internet Security Enhancements

J. Scott Marcus, Senior Advisor for Internet Technology FCC

Public Policy Alternatives

Help industry to coalesce consensus.

Collect relevant data and statistics.

Provide “seed money” for research and for interoperability testing.

Support secure services through the purchasing preferences of the U.S. Government.

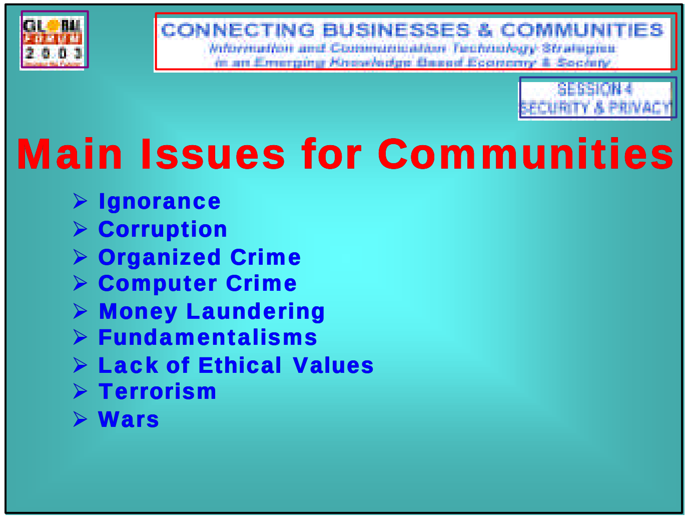
Provide remedies (e.g. under tort law) where firms fail to achieve a recognized standard of care.*

Fund the deployment of desired services.

Mandate the deployment of desired services.

Helping to Coalesce Industry Consensus

- Support sharing of information on best practices, while protecting sensitive information.
- Mitigate antitrust concerns when competitors discuss joint actions that are not anticompetitive.
- Stimulate standards bodies to focus on relevant problems.



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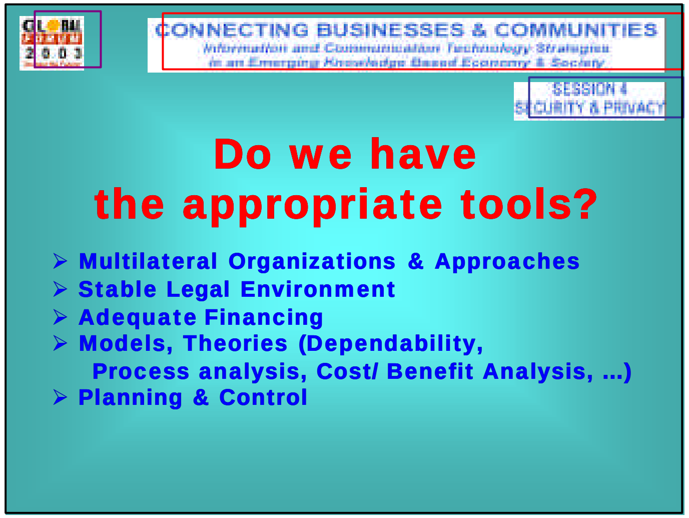
Main Issues for Communities

- ➢ Ignorance
- ➢ Corruption
- ➢ Organized Crime
- ➢ Computer Crime
- ➢ Money Laundering
- ➢ Fundamentalisms
- ➢ Lack of Ethical Values
- ➢ Terrorism
- ➢ Wars



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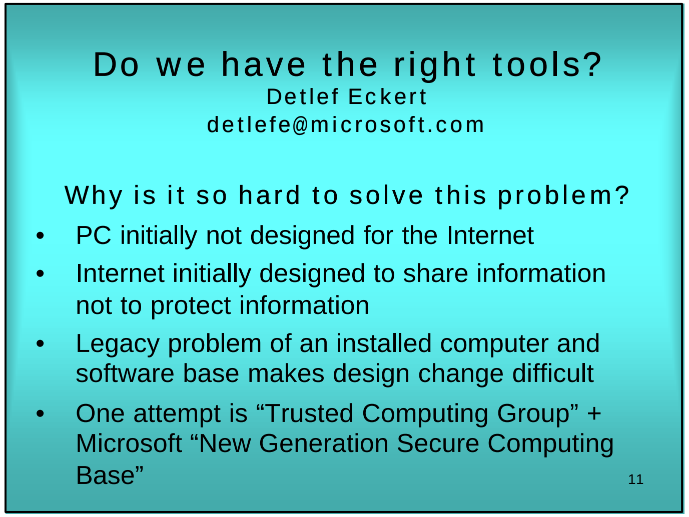
Do we have the appropriate tools?

- ➢ Multilateral Organizations & Approaches
- ➢ Stable Legal Environment
- ➢ Adequate Financing
- ➢ Models, Theories (Dependability, Process analysis, Cost/ Benefit Analysis, …)
- ➢ Planning & Control



Do we have the right tools?

Detlef Eckert
detlefe@microsoft.com

Why is it so hard to solve this problem?

- PC initially not designed for the Internet
- Internet initially designed to share information not to protect information
- Legacy problem of an installed computer and software base makes design change difficult
- One attempt is “Trusted Computing Group” + Microsoft “New Generation Secure Computing Base”

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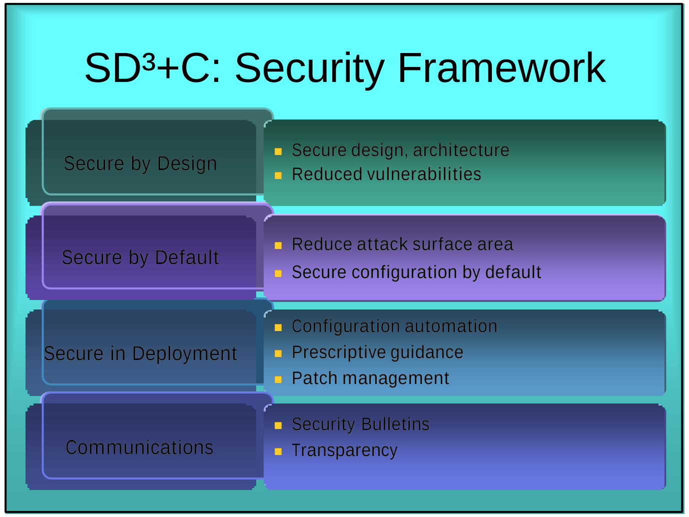
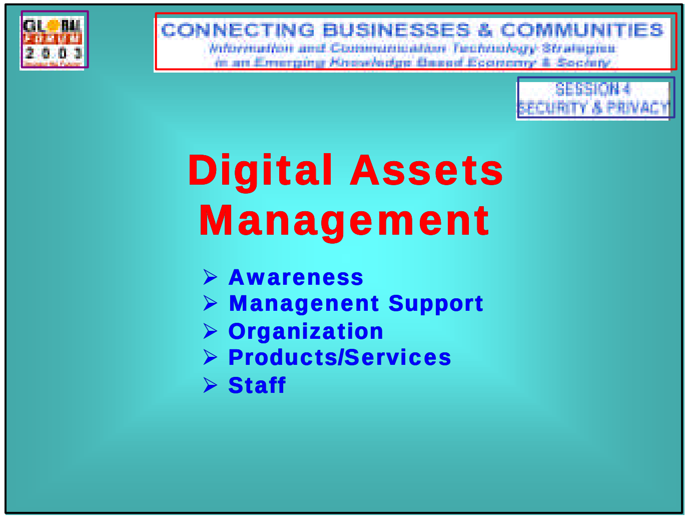


SD³+C: Security Framework

Secure by Design	▪ Secure design, architecture ▪ Reduced vulnerabilities
Secure by Default	▪ Reduce attack surface area ▪ Secure configuration by default
Secure in Deployment	▪ Configuration automation ▪ Prescriptive guidance ▪ Patch management
Communications	▪ Security Bulletins ▪ Transparency



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SESSION 4
SECURITY & PRIVACY

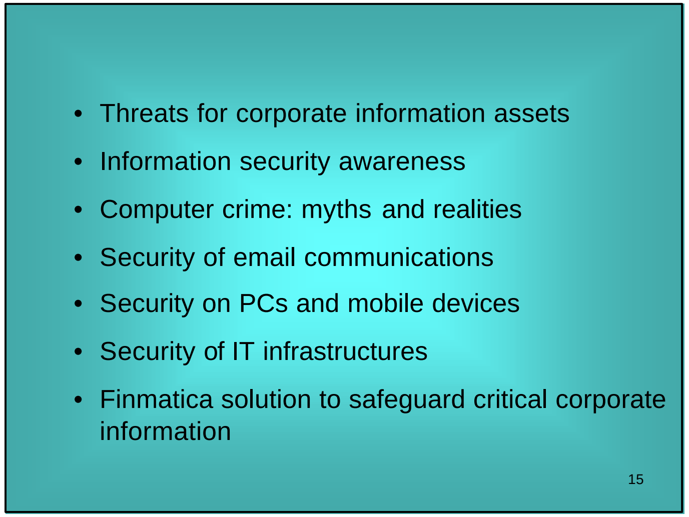
Digital Assets Management

- ➢ Awareness
- ➢ Management Support
- ➢ Organization
- ➢ Products/Services
- ➢ Staff

Finmatica
Expanding World

Safeguarding Corporate Information Assets and Legacy

Mario Sforza



- Threats for corporate information assets
- Information security awareness
- Computer crime: myths and realities
- Security of email communications
- Security on PCs and mobile devices
- Security of IT infrastructures
- Finmatica solution to safeguard critical corporate information

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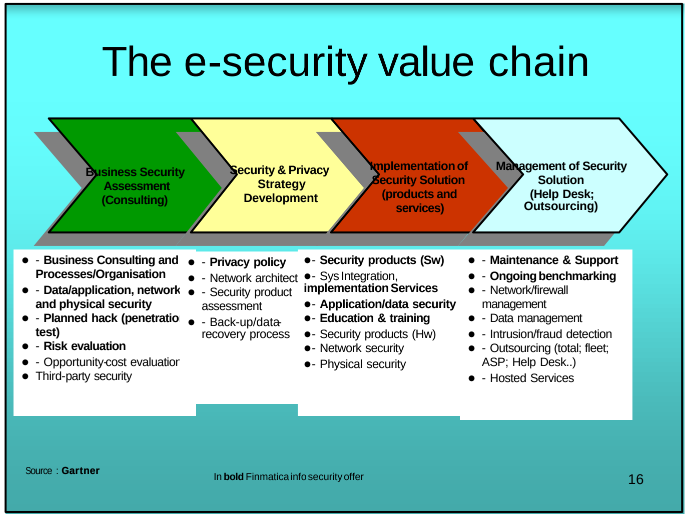

The e-security value chain

Business Security Assessment (Consulting)
Security & Privacy Strategy Development
Implementation of Security Solution (products and services)
Management of Security Solution (Help Desk; Outsourcing)

- - **Business Consulting and Processes/Organisation**
- - **Data/application, network and physical security**
- - **Planned hack (penetratio test)**
- - **Risk evaluation**
- - Opportunity-cost evaluatior
- Third-party security

- - **Privacy policy**
- - Network architect
- - Security product assessment
- - Back-up/data-recovery process

- - **Security products (Sw)**
- - Sys Integration, **implementation Services**
- - **Application/data security**
- - **Education & training**
- - Security products (Hw)
- - Network security
- - Physical security

- - **Maintenance & Support**
- - **Ongoing benchmarking**
- - Network/firewall management
- - Data management
- - Intrusion/fraud detection
- - Outsourcing (total; fleet; ASP; Help Desk..)
- - Hosted Services

Source : **Gartner**

In **bold** Finmatica info security offer

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CONNECTING BUSINESSES & COMMUNITIES

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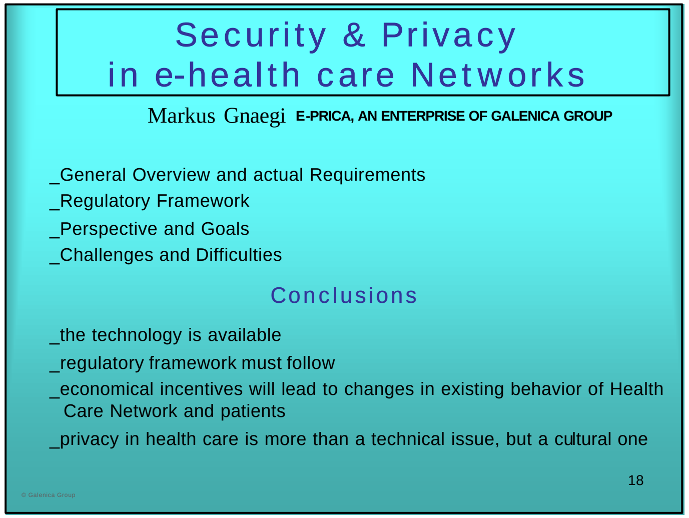
SECURITY & PRIVACY

Data Protection

- ➢ **Standards**
- ➢ **Best Practices**



Security & Privacy in e-health care Networks

Markus Gnaegi E-PRICA, AN ENTERPRISE OF GALENICA GROUP

_General Overview and actual Requirements
_Regulatory Framework
_Perspective and Goals
_Challenges and Difficulties

Conclusions

_the technology is available
_regulatory framework must follow
_economical incentives will lead to changes in existing behavior of Health Care Network and patients
_privacy in health care is more than a technical issue, but a cultural one

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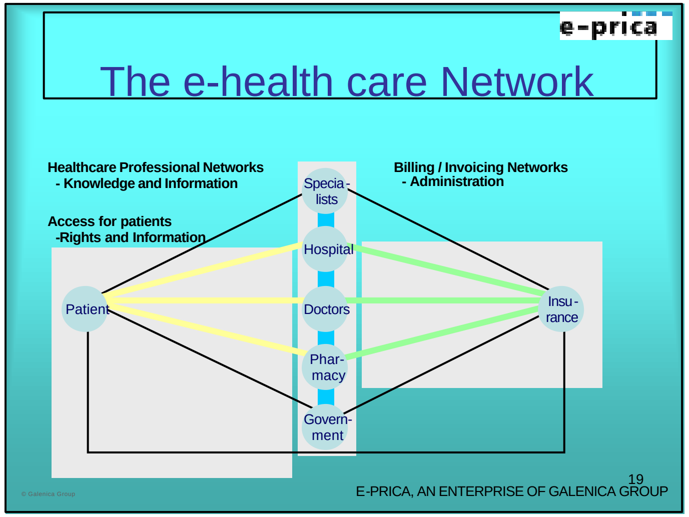

e-prica

The e-health care Network

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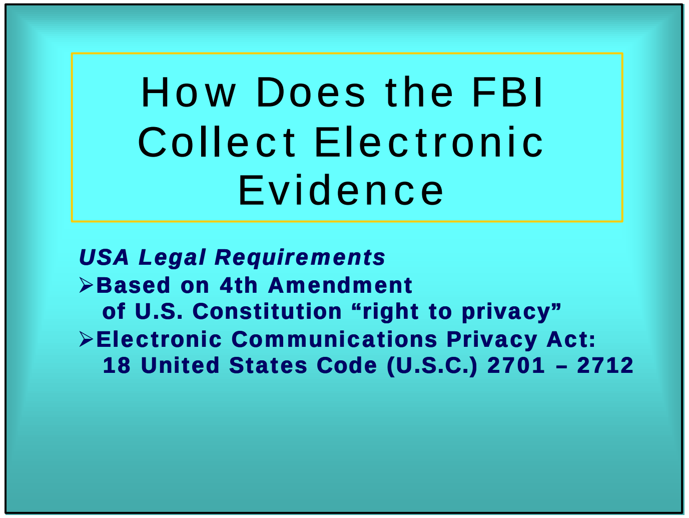
E-PRICA, AN ENTERPRISE OF GALENICA GROUP

DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION

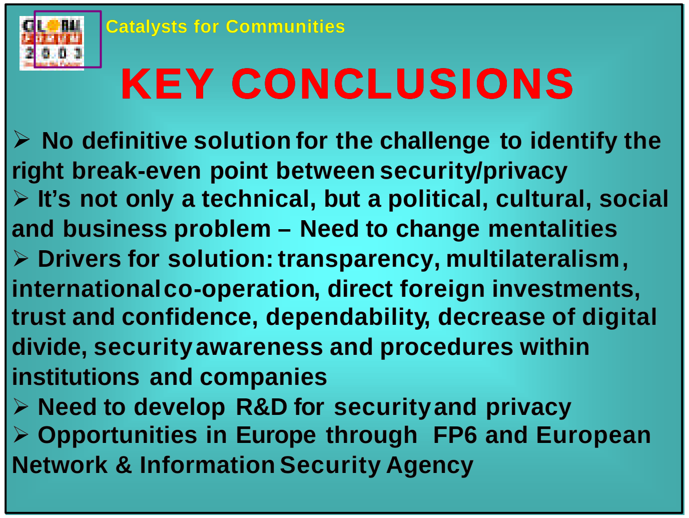
USA Criminal Cyber Laws
Rome, Italy
6 November 2003
Special Agent Robert Flaim
FBI – Washington, D.C.



How Does the FBI Collect Electronic Evidence

USA Legal Requirements

- ➢**Based on 4th Amendment of U.S. Constitution “right to privacy”**
- ➢**Electronic Communications Privacy Act: 18 United States Code (U.S.C.) 2701 – 2712**



Catalysts for Communities

KEY CONCLUSIONS

- ➢ **No definitive solution for the challenge to identify the right break-even point between security/privacy**
- ➢ **It’s not only a technical, but a political, cultural, social and business problem – Need to change mentalities**
- ➢ **Drivers for solution: transparency, multilateralism, international co-operation, direct foreign investments, trust and confidence, dependability, decrease of digital divide, security awareness and procedures within institutions and companies**
- ➢ **Need to develop R&D for security and privacy**
- ➢ **Opportunities in Europe through FP6 and European Network & Information Security Agency**

Catalysts for Communities

END