

# **Future of Network Monitoring**

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# Technical aspects

- Importance of network monitoring grows up
- Black box solutions - high price, not flexible enough (user demands change really fast)
- PC computers are flexible enough but not fast for Gb (and more) speeds
- Situation will be even worse - Gilder's law - bandwidth grows three time faster than computer power

# Hardware acceleration

- For high speed network monitoring is necessary hardware acceleration
- ASIC chips are not flexible enough
- Programmable hardware (FPGA, Network processors)
- SCAMPI project (IST 5th frame) - scaleable solution up 10Gb/s (with hw acceleration using of COMBO cards)

# New ways in network monitoring

- Distributed systems
- Modular system of simple hardware, firmware and software building blocks
- Device supporting wide range of complex applications
- Self-learning devices
- Move from network monitoring to network prevention

# But ... some other aspects

- Do we really want to have big amount of unexpensive equipments/solutions for (near) everybody ?
- What about more sophisticated attacks using new solutions ?
- What about our privacy (not just Internet, but mobile phones) ?
- Did we open new Pandora box ?
- Will we need to change life style for more privacy ?.