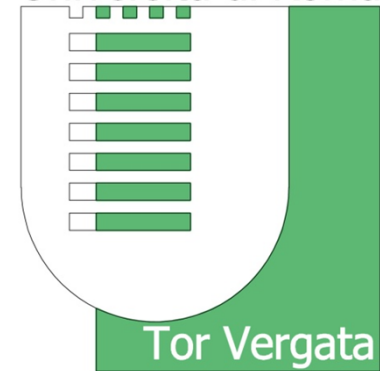# Sviluppo e utilizzo dell'ICT

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Spunti (1)

1. Infrastrutture
   - Banda larga su rete fissa
   - LTE (fino a 100 Mbit/s)
     - 12-12-2012: Telecom Italia lancia LTE a Roma, Milano, Torino e Napoli
   - Piattaforma di sviluppo e supporto

     - … costruire infrastrutture è un dovere primario dello Stato e delle Funzioni Pubbliche
     - alternative tecniche (FTTx)
     - frequenze (1,2 miliardi per frequenze TI)
     - net-neutrality
     - telco vs. overthetop (Facebook, Twitter, Google, Apple, eBay, Amazon)
     - problemi regolatori
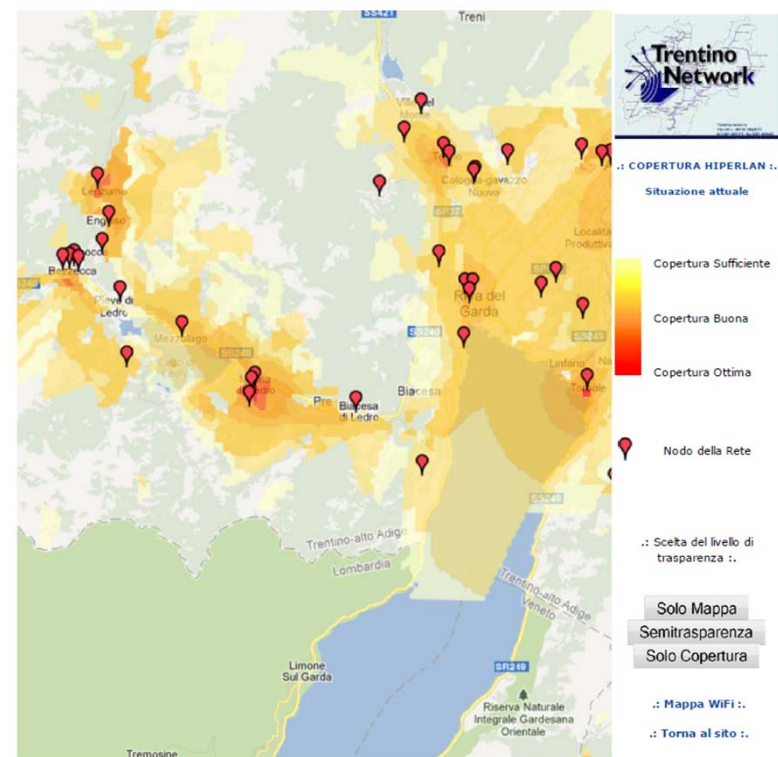   - investimenti?...

Community networks

- Esempio provincia Trento
  - http://www.trentinonetwork.it/ (società a capitale pubblico)
    - 800 km fibra (60M€)
    - 750 siti wireless
    - Ponti radio e laser
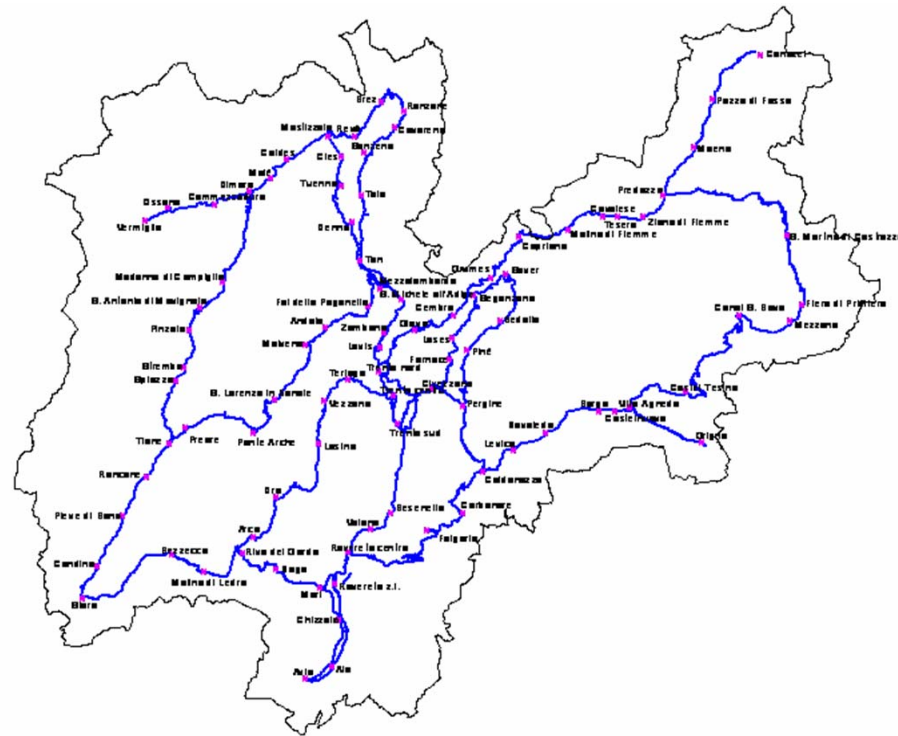
Community networks

- Servizi ai cittadini (Wi-Fi)
- Servizi alle imprese (HiperLan)

Community networks
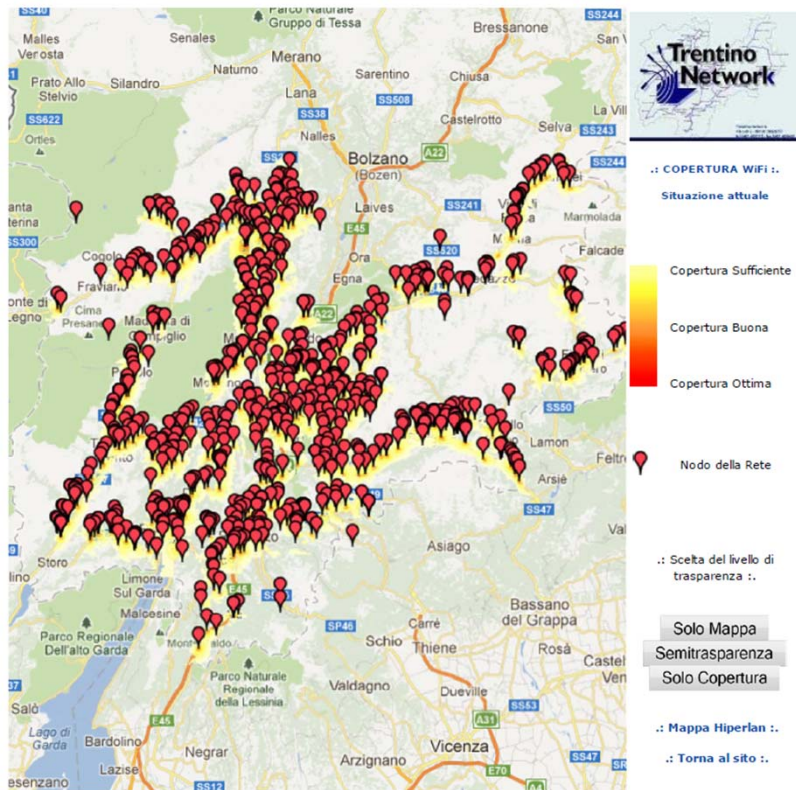
- ## http://freenetworks.org/
    - http://www.seattlewireless.net
    - http://wiki.ninux.org/ (rete mesh 151 nodi)
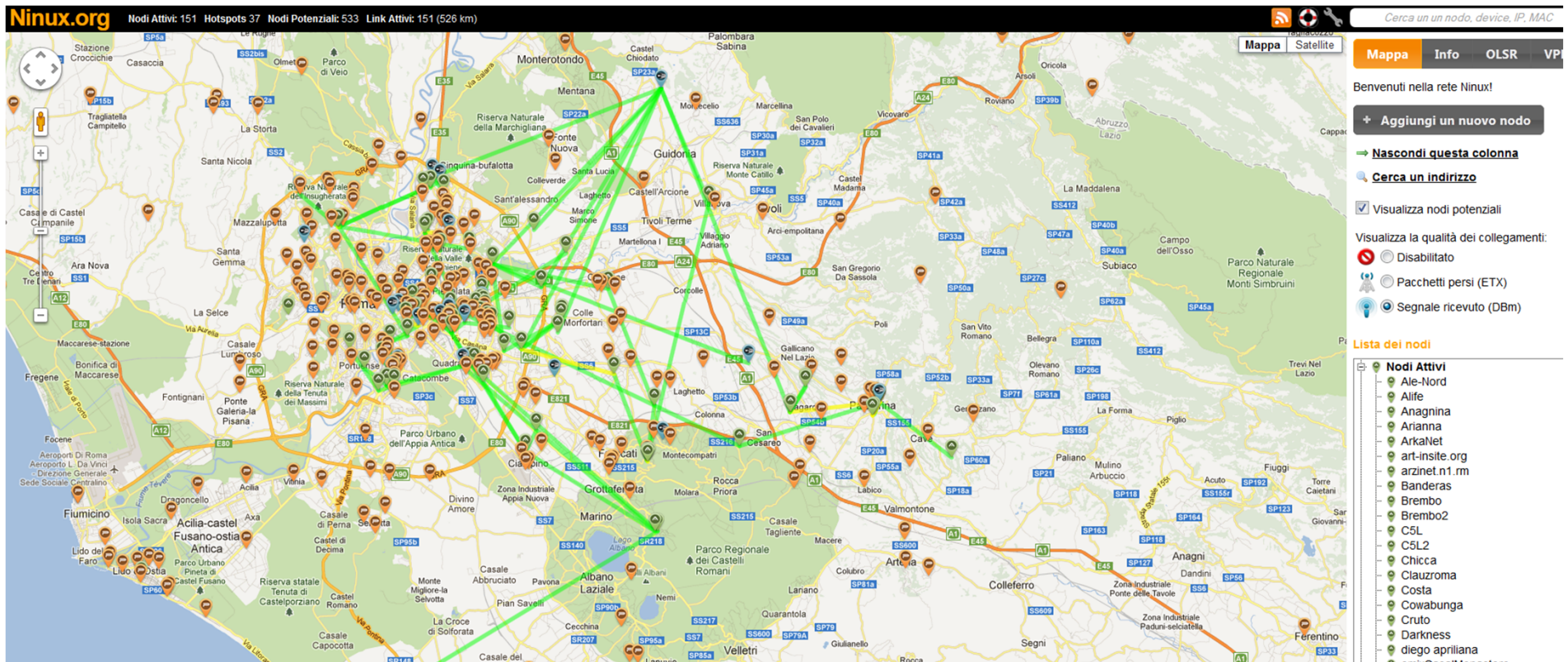
Community networks

- Atene (WIND; max 11000 nodi)

- Catalogna (GUIFI; max 29000 nodi)

- Hotel San Giorgio, Campobasso (12 access points wifi)
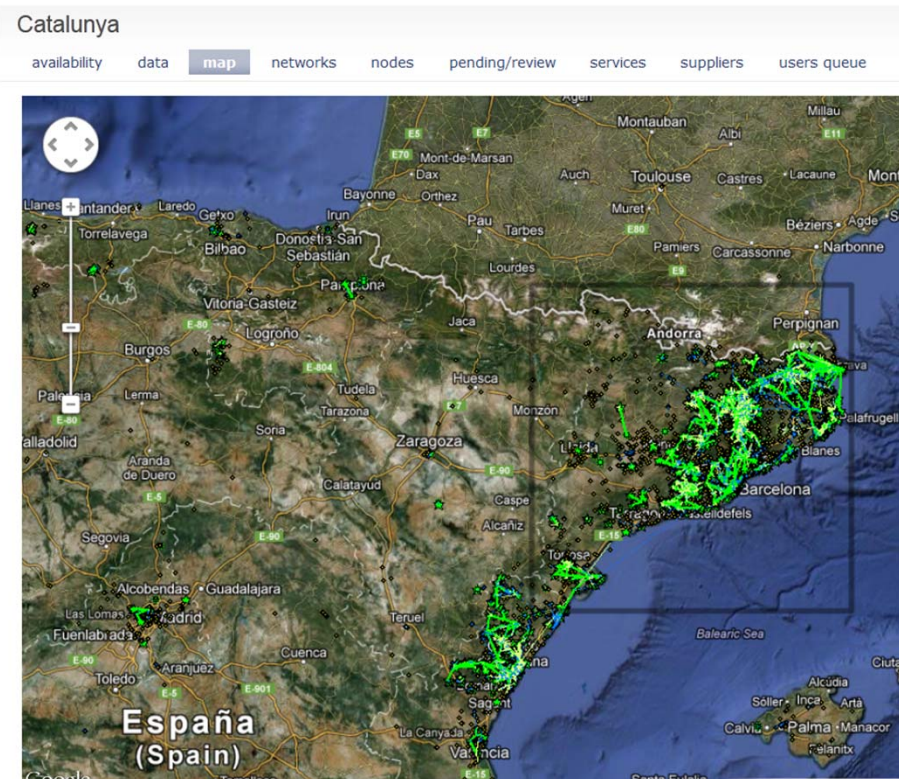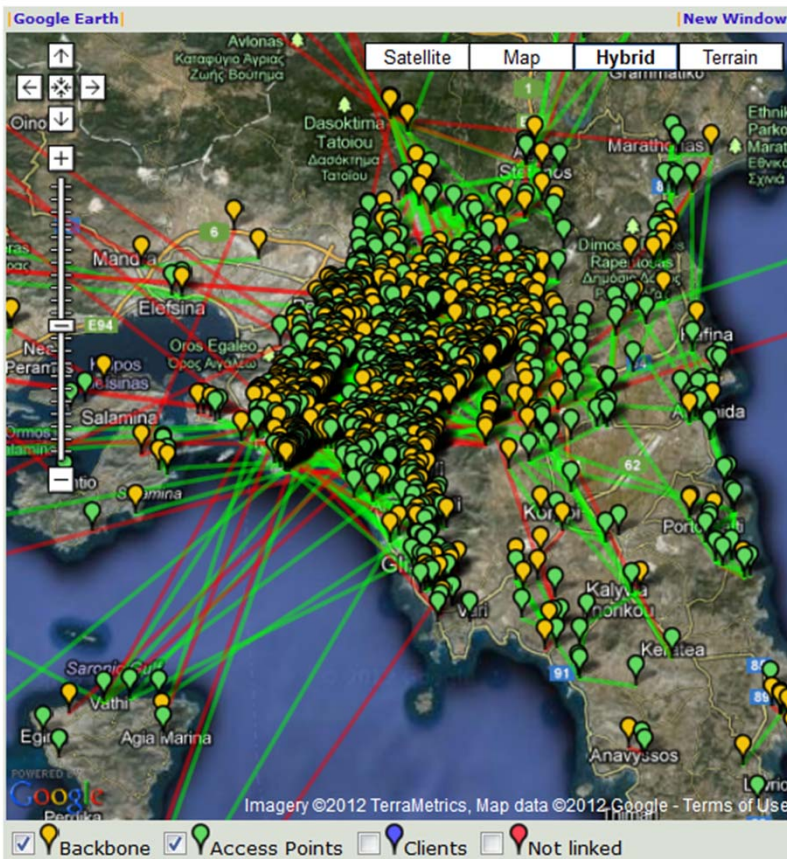
Spunti (2)

2. Focus su **uso e sfruttamento** ICT
    - ICT=commodity (materia prima)
    - ICT=strumento al servizio di applicazioni
    - no apparati/componenti (eccetto nicchie ed eccellenze)
    - ma integrazione sistemi e loro uso innovativo
    - strumento ubiquitario e trasversale

Finanziamenti europei ICT

- FP6 call 1&2 (**2002-03**, indicative budget 1595 MEuro)
  - Pushing the limits of CMOS, preparing for post-CMOS 75 (M€)
  - Micro and nano systems 85
  - Broadband for all 60
  - Mobile and wireless systems beyond 3G 90
  - Towards a global dependability and security framework 55
  - Multimodal Interfaces 65
  - Semantic-based knowledge systems 55
  - Networked audio-visual systems and home platforms 60
  - Networked businesses and governments 75
  - E Safety of road and air transport 65
  - eHealth 70
  - Technology-enhanced learning and access to cultural heritage 65

Finanziamenti europei ICT

- FP6 call 1&2 (**2002-03**, indicative budget 1595 MEuro)
  - Advanced displays   25 (M€)
  - Optical, opto-electronic, photonic functional components   45
  - Embedded systems   50
  - Open development platforms for software and services   55
  - Cognitive systems   25
  - Applications and Services for the Mobile User and worker   60
  - Cross-media content for leisure and entertainment   55
  - GRID-based Systems for solving complex problems   45
  - Improving Risk management   30
  - eInclusion   30

Finanziamenti europei ICT

- FP7 call 10-11 (**2012-13**, indicative budget 1484M€)
    - Pervasive and Trusted Network and Service Infrastructure
        - Future Networks   48.5
        - Software Engineering, Services and Cloud Computing   41.5
        - Digital Enterprise   16
        - A reliable, smart and secure Internet of Things for Smart Cities   20
        - Trustworthy ICT   36.5
        - Connected and Social media   33.4
        - Future Internet Research Experimentation (FIRE)   19
        - PPP FI: Expansion of Use Cases   100
        - PPP FI: Technology Foundation Extension and Usage   30

Finanziamenti europei ICT

- FP7 call 10-11 (**2012-13**, indicative budget 1484M€)
  - Cognitive Systems and Robotics
    - Robotics, Cognitive Systems and Smart Spaces, Symbiotic Interaction   67
    - Robotics use cases & Accompanying measures   23
  - Alternative Paths to Components and Systems
    - Nanoelectronics   32
    - Photonics   61
    - Heterogeneous Integration and take-up of Key Enabling Technologies for Components and Systems   64
    - Advanced Computing, embedded and Control systems   72.5
  - Technologies for Digital Content and Languages
    - Content analytics and language technologies   27
    - Scalable data analytics   31
    - SME initiative on analytics   20

Finanziamenti europei ICT

- FP7 call 10-11 (**2012-13**, indicative budget 1484M€)
  - ICT for Health, Ageing Well, Inclusion and Governance
    - Personalised Health, active ageing and independent Living 58
    - Virtual Physiological Human 31.9
    - ICT for smart and personalised inclusion 19
    - ICT for governance and policy modelling 19
    - Collective awareness Platforms for Sustainability and Social Innovation 15
  - ICT for a Low Carbon Economy
    - Smart energy grids 18
    - Data Centres in an energy-efficient and
    - environmentally friendly Internet 20
    - ICT for water resources management 14
    - Optimising Energy Systems in Smart Cities 40
    - Co-operative mobility 26
    - Integrated personal mobility for smart cities 15
    - PPP GC: Electro-mobility 40

Finanziamenti europei ICT

- FP7 call 10-11 (**2012-13**, indicative budget 1484M€)
  - ICT for the Enterprise and Manufacturing
    - PPP FoF: Application experiments for robotics and simulation   35
    - PPP FoF: Equipment assessment for sensor and laser based applications 35
  - ICT for Creativity and Learning
    - Technologies and scientific foundations in the field of creativity   43
    - Technology enhanced learning   25

Spunti (3-4)

3. Necessità di concentrare risorse, per aiutare lo sviluppo
   – Investire in modo concentrato in località selezionate
   – Nuclei aggregatori e di esempio
   – Non solo parchi tecnologici, zone industriali, supporto infrastrutturale, ma creazione di luoghi di eccellenza (a tutto campo)
     • Mantenere risorse umane locali
     • Attrarre risorse da fuori

4. Necessità di fornire servizi
   – Villaggi
     • Servizi alla popolazione
     • Inclusion di paesi, e non solo persone
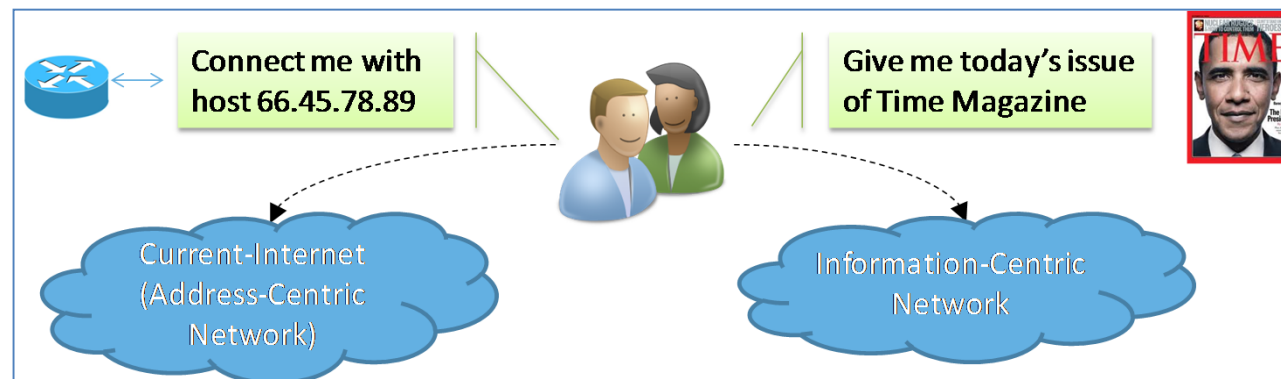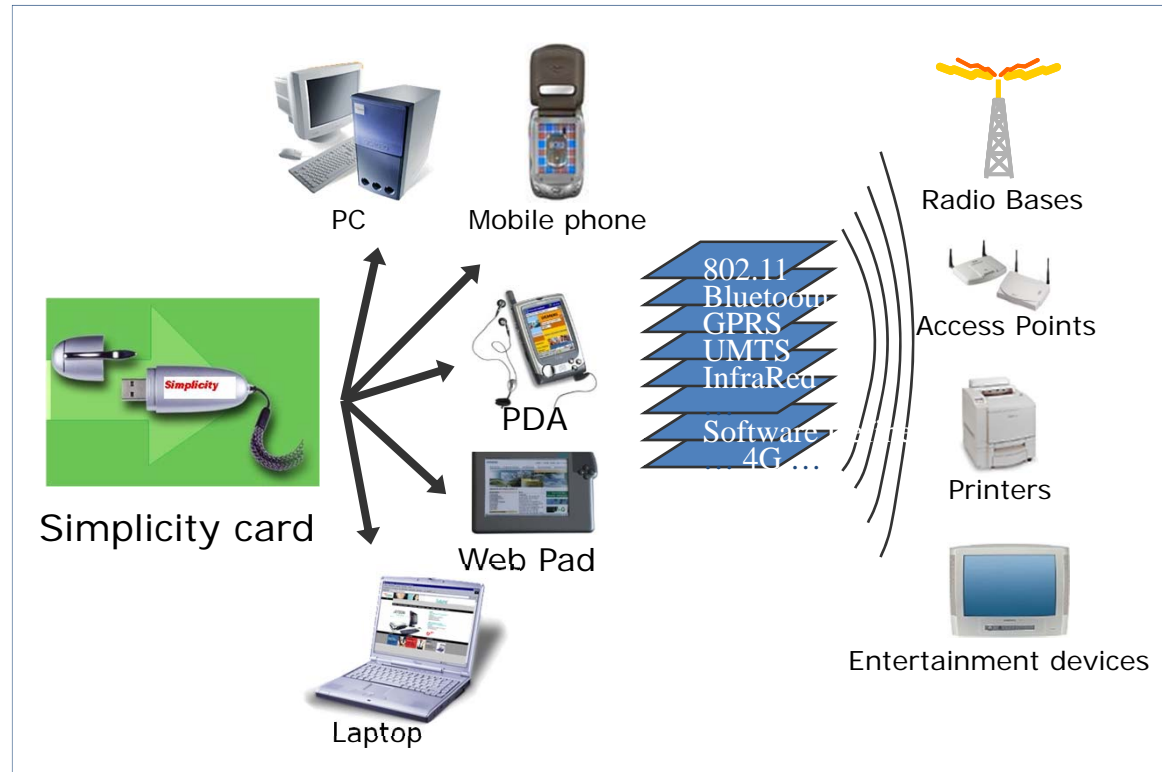   • Specificità dell'area

Spunti (5)

5. Spinte e incentivi tecnologici

   – Tablet, smartphones

   – HD e 3D TV

     • segretaria Cisco

   – Interfacce semplici

   – zero configuration

   – personalizzazione

   – profilazione

CV

- 4 progetti coordinati
  - Simplicity
  - Simple Mobile services
    - Simple to use
    - Simple to develop
      - App
      - (Jobs=tenacia)
  - Convergence
  - Controllers

Simplicity card

PC

Mobile phone

PDA

Web Pad

Laptop

802.11
Bluetooth
GPRS
UMTS
InfraRed

Software
4G ...

Radio Bases

Access Points

Printers

Entertainment devices

Connect me with host 66.45.78.89

Give me today's issue of Time Magazine

Current-Internet (Address-Centric Network)

Information-Centric Network

Domande?

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