

# Internet and Next-Generation Networks: shaping new models

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1° September 2011

### The Digital Evolution forces shaping Digital Transformation

#### **Global Internet users**

- 2 billion World Internet users 28.7% of world population online (March 30, 2011 www.internetworkdstats.com)
- 21% of Internet users are from China (420 million)
- 42% of Internet users are in Asia

#### USA Internet users

- 240 MM users in USA 77% of population (Apr 2011 Nielsen)
- Internet penetration hits 90% 100 MM USA household
- 67% are broadband connections

#### GlobaleMail

- 90 trillion sent on the Internet in 2010
- 294 billion email messages per day
- 1.9 billion email users worldwide
- 100 million new email users last year
- 74% email accounts consumers 26% email accounts corporate

Source: Digital Media Forum - Accenture 2011

#### Social Media

- 7 new Internet users per second versus 2.3 births per second globally
- 184 million blogs on the Internet
- 346 million people globally read blogs (comScore March 2008)
- 84% of social media sites have more women than men
- 177 million tweets on Twitter per day (March 2011)
- 57% of Twitter's users located in USA
- = 517 million on Facebook (March 2011)
- 30 billion Facebook photos shared each month globally
- 80% of Gen Y versus 20% of Boomers connect with people on Social Media (Accenture 2008)
- 25% of search engine results for top 25 brands link to user generated content
- 78% trust peer recommendations
- 14% trust advertisements

#### **Media Consumption**

- 8 to 18 year old spend 7 hours and 38 minutes each day consuming media
- 57% of Americans watch TV and surf Internet simultaneously
- 1/3 Internet traffic is video in 2009

#### eCommerce

- USA Web sales \$253 billion in 2010
- Forecast \$1 trillion globally by 2013
- 30% of offline sales are influenced online
- 267 million websites (Dec 2010)

#### Mobile

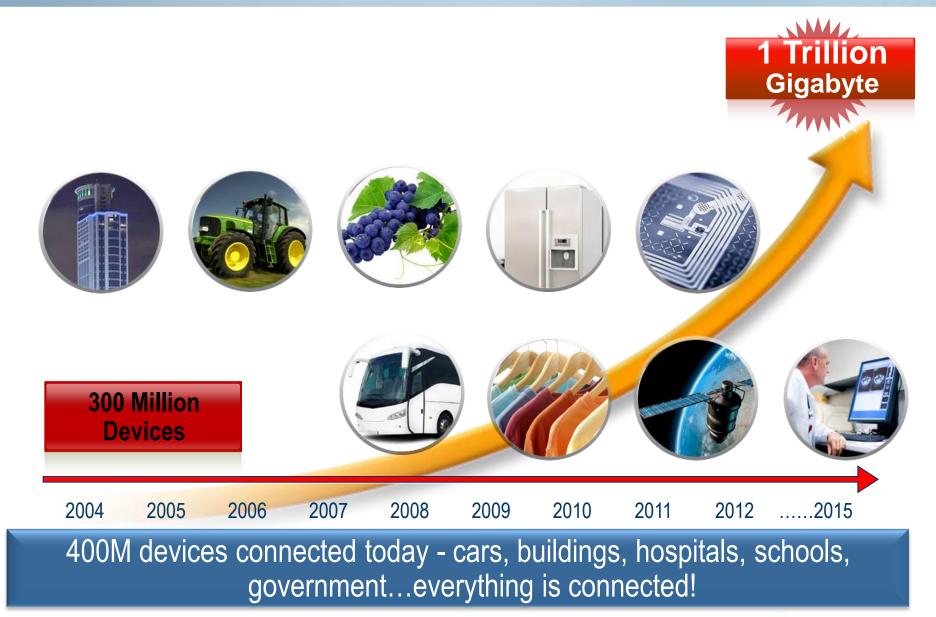
- 4.3 billion mobile subscribers worldwide (Portio Research)
- Asia has half the world's mobile subscribers
- Revenue from mobile data will overtake fixed voice by 2013 in the USA
- \$500 million in 2009 globally from mobile Internet advertising

#### **Digital Advertising**

- \$25.7 billion in 2010 (USA)
- Online surpassed Cable TV ad spending in 2007 (USA)
- Online is 9% of ad budgettoday (USA)
- Financial Services 31% online versus 1.5% online for CG&S (USA) (Ad Age 2009)
- \$71 billion globally in 2010
- By 2014, USA online spend \$40 billion (ZenithOptimedia Group)



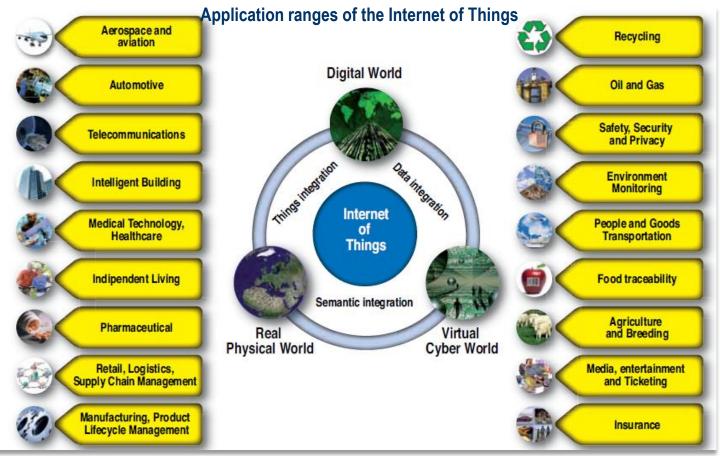
### **Everything Becomes Connected**





Source: Forrester Research - Cisco, June 2011

### Towards the "Internet of Things"



Source: European Center on IOT, Vision and Challenges for Realising the Internet of Things, 2010

In the future the Internet of Things may be a non-deterministic and open network in which auto-organized or intelligent entities, virtual objects will be interoperable and able to act independently (pursuing their own objectives or shared ones) depending on the context, circumstances or environments



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Subscribers and connected things are on track to reach global penetration saturation, and traffic keeps growing strongly Businesses and individuals are moving to a mobile world

Service Providers are moving to IP packet networks, and the world is going mobile

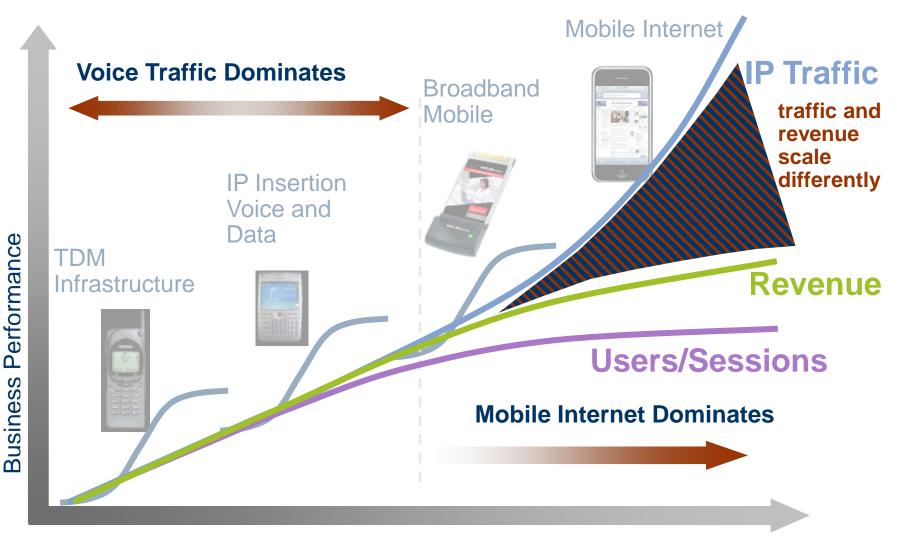
The mobile world is accelerating HSPA/HSPA+ upgrades while gearing up for LTE

Source: Infonetics, Fundamental Telecom/Datacom Market Drivers (December 20, 2010)

Over-the-top Providers (OTT) are benefiting the most, at the expense of Service Providers

All networks are moving to packet





Mobile Access Evolution and IP Infrastructure Impact





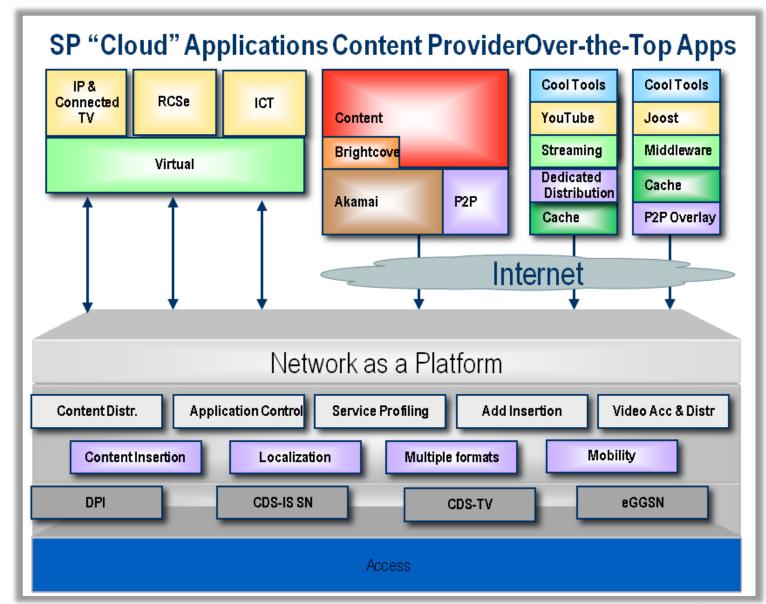


### Transformation of Telco business and Tech environment



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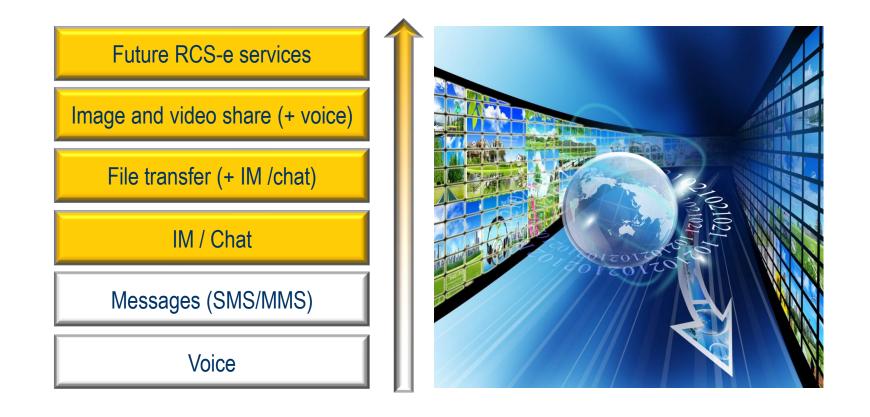
## Adoption of "Network as a Platform" approach to enable Cloud Computing



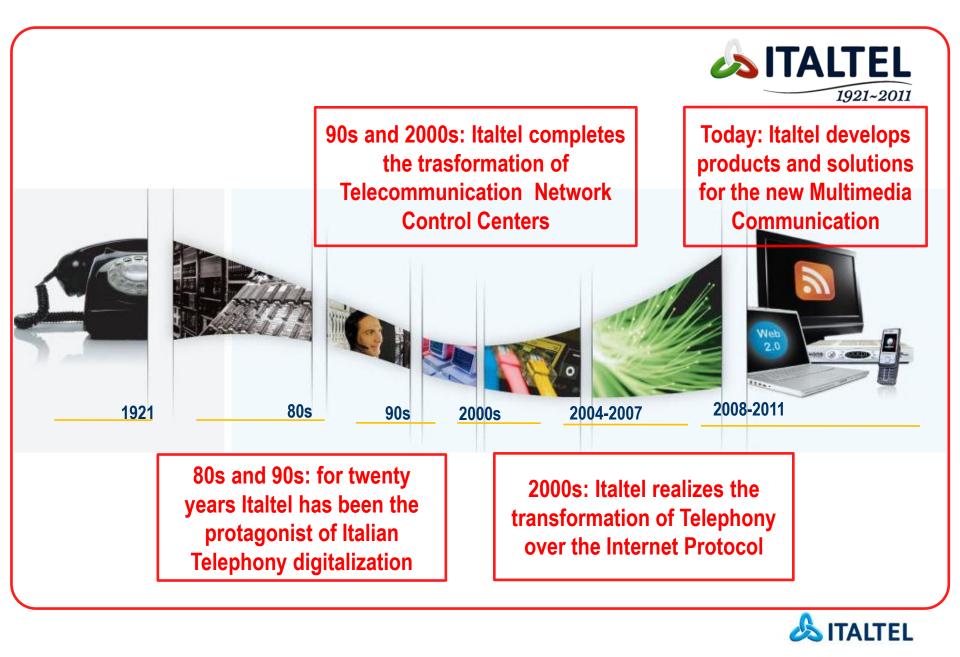


### Rich Communication Suite: evolving from voice to video

#### RCS-e industry Proposition – 'extending the comms stack' in the IP World

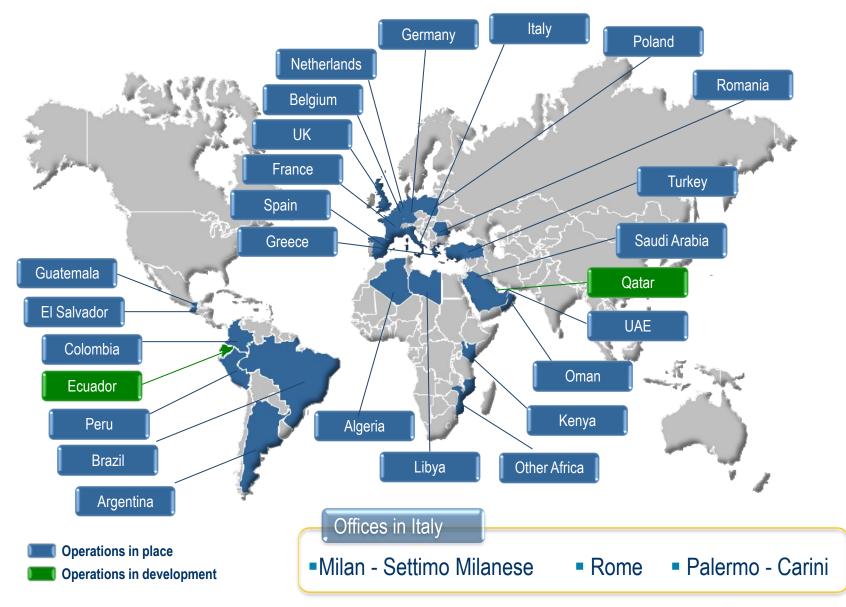






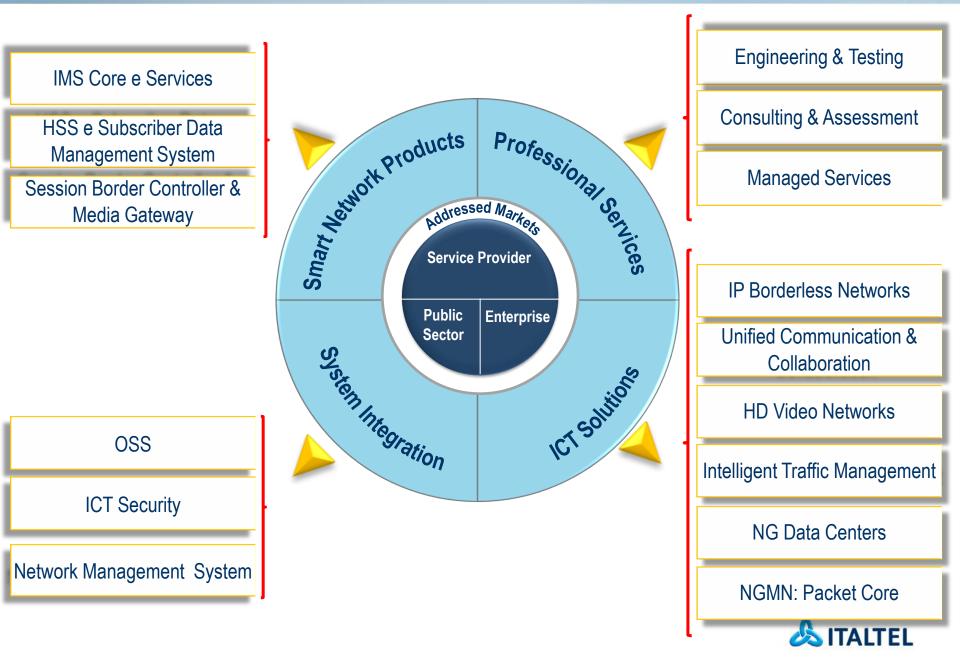
#### Italtel presence worldwide



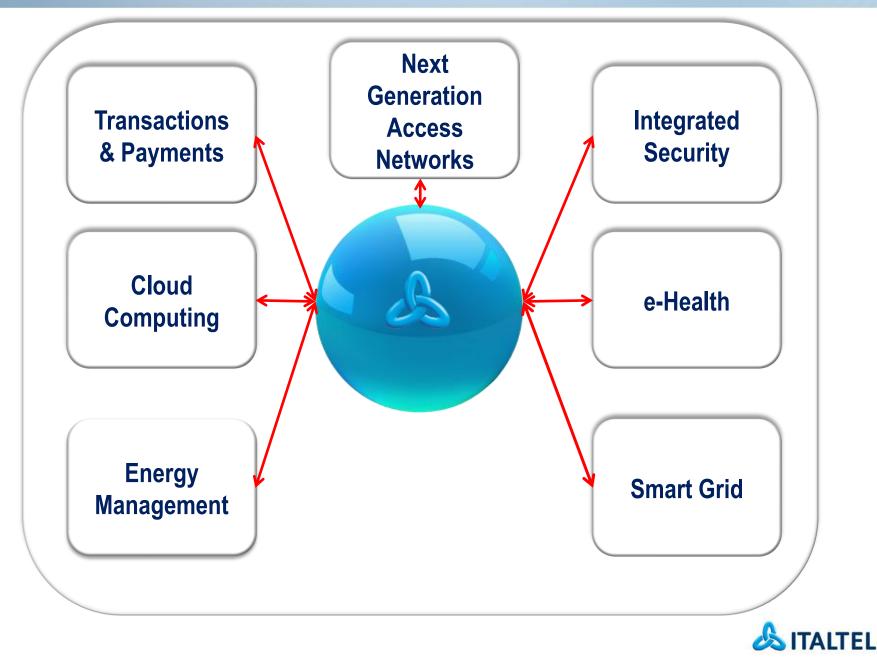




## Italtel offer: Integrated Solutions & Proprietary Products...

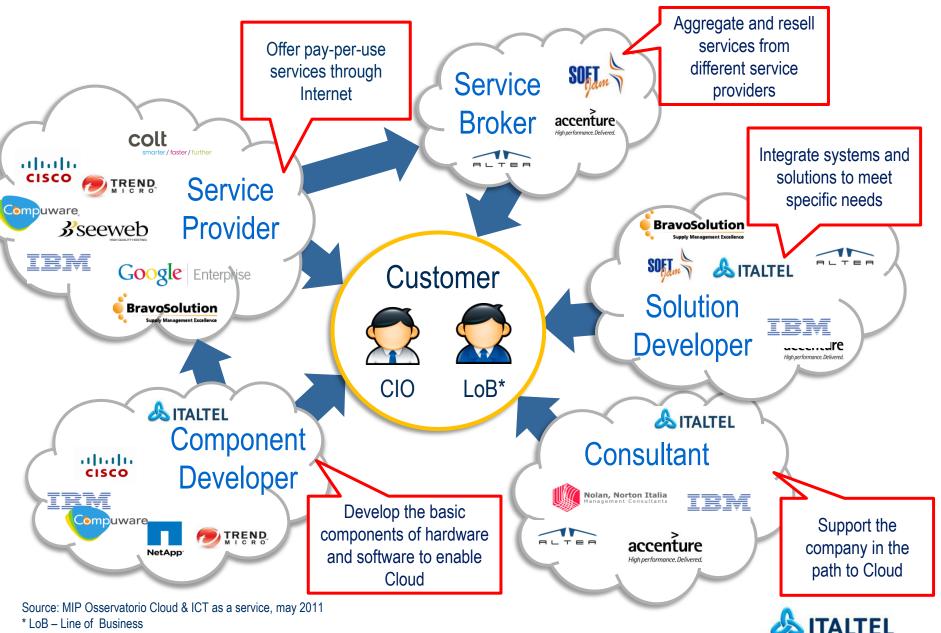


### ... and seven innovation areas



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### The Role of Italtel in the Cloud Market



\* LoB – Line of Business

### **Italtel Energy Service Center in Palermo**

### **Services**

### **Solutions**

#### Smart Energy

Solutions to support enterprises to rationalize consumption through an effective management of energy

Smart Building

Solutions for the coordinated management of technological systems (air conditioning, water, gas and energy, security systems) and houses (meters, sockets and programmable thermostats, ...) Consulti

#### Green Data Center

Energy efficiency solutions designed specifically to optimize Data Center environment

#### Smart Grids

Solutions for intelligent Communication Networks (Distributed Generation, Electric Vehicles, Remote control, Remote reading - Smart Metering, ...)







Analysis of energy loads

- Identifying inefficiencies
- Measuring and sampling environmental parameters

ESC

Energy Service Center

Dashboard for monitoring, analyzing and assessing environmental sustainability over time

Palermo



