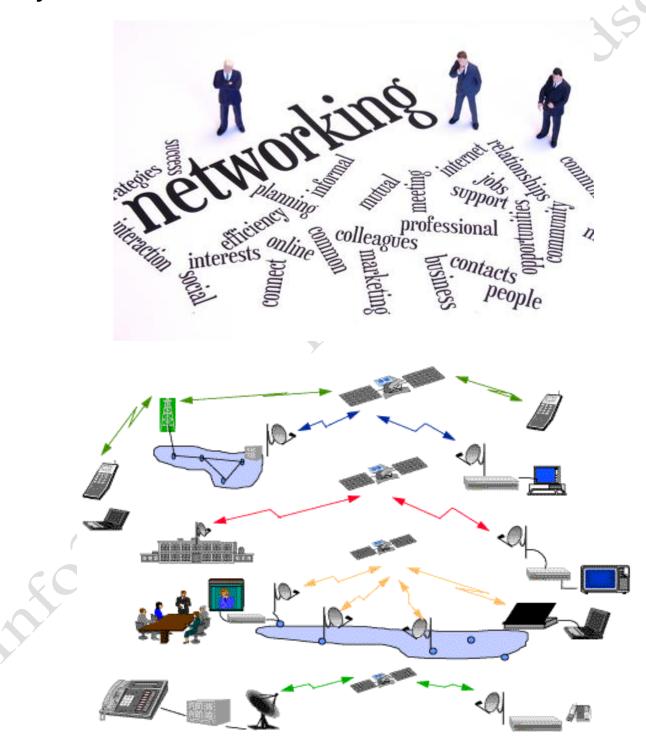
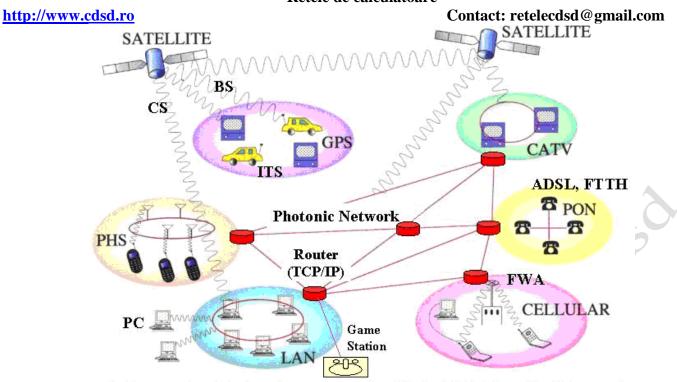
C05_Anexa



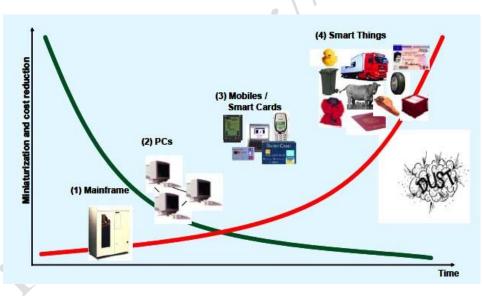
http://www.cdsd.ro

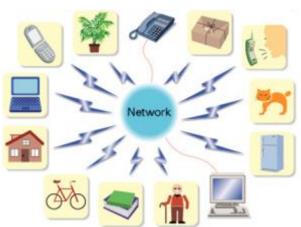
Why NETWORKING?



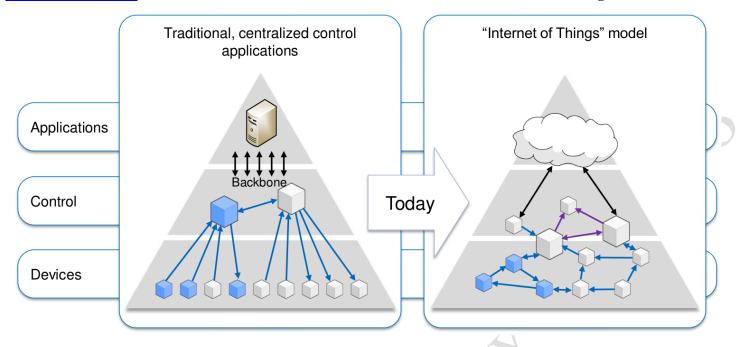


Information Technology towards Global Multimedia Network

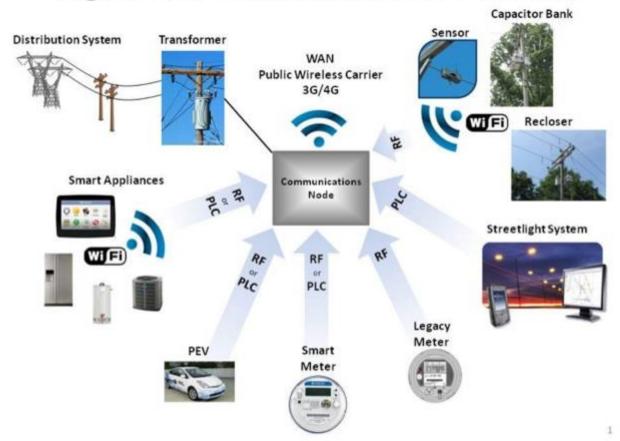




Contact: retelecdsd@gmail.com



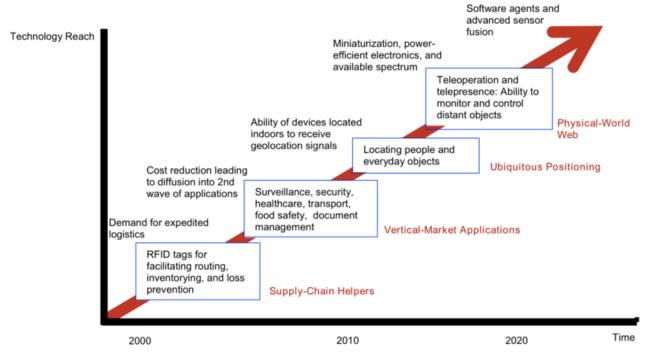
Digital Grid Communications Overview



http://www.cdsd.ro

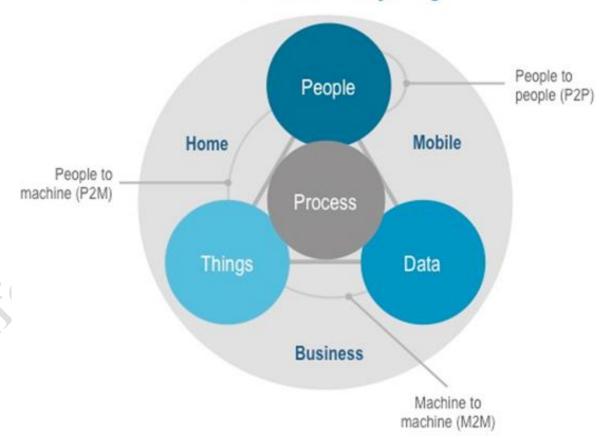
Contact: retelecdsd@gmail.com

TECHNOLOGY ROADMAP: THE INTERNET OF THINGS

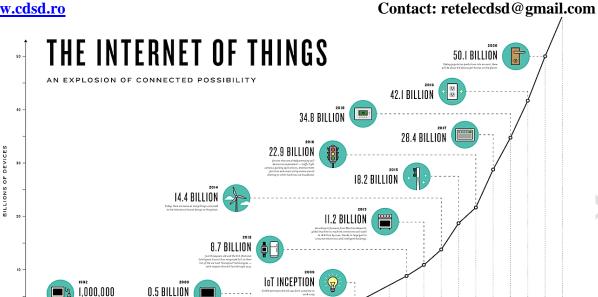


Source: SRI Consulting Business Intelligence

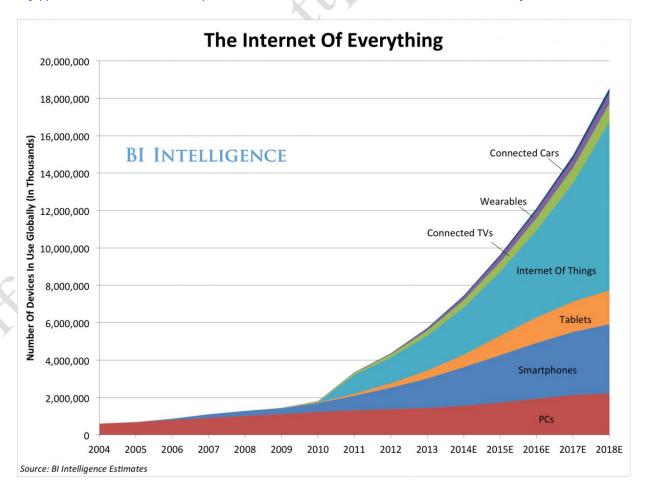
Internet of Everything



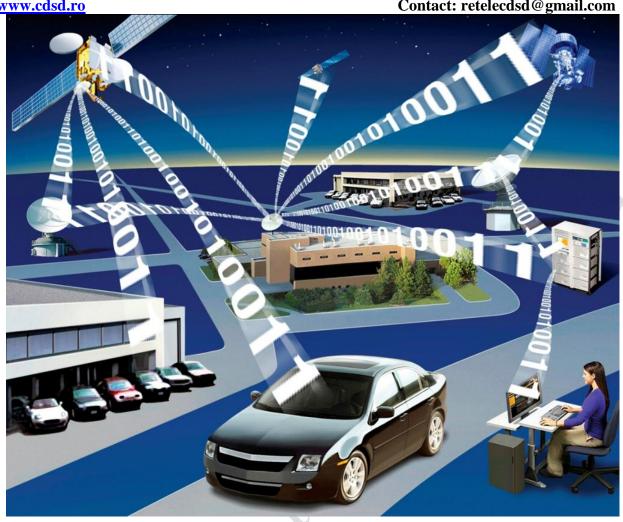
http://www.cdsd.ro

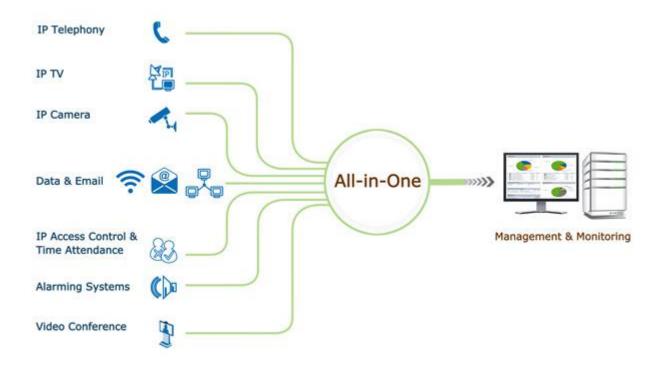


- Cisco thinks about 50 billion devices will be connected by 2020, after coming out with an earlier analysis in January that claimed 8.7 billion connected devices in 2012.
- A separate analysis from **Morgan Stanley feels that number can actually be as high as 75 billion**, and also claims that there are 200 unique consumer devices or equipment that could be connected to the Internet that have not yet done so. http://www.businessinsider.com/75-billion-devices-will-be-connected-to-the-internet-by-2020-2013-10



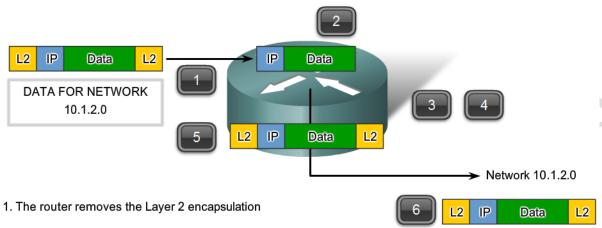
http://www.cdsd.ro Contact: retelecdsd@gmail.com





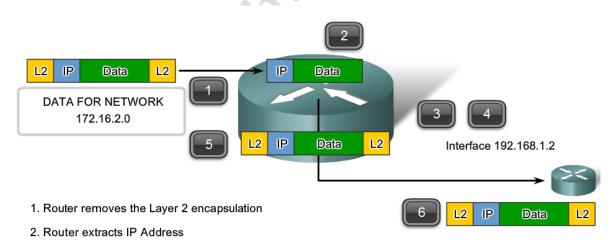
Legat de ruter (router en.), ca dispozitiv dedicat si/sau ca functie de rutare:

a. In tabela de rutare, exista o ruta (inregistrare) cu privire la reteaua destinatie



- 2. Router extracts the destination IP address
- 3. Router checks the routing table for a match
- 4. Network 10.1.2.0 is found in the routing table
- 5. Router re-encapsulates the packet
- 6. Packet is sent to Network 10.1.2.0

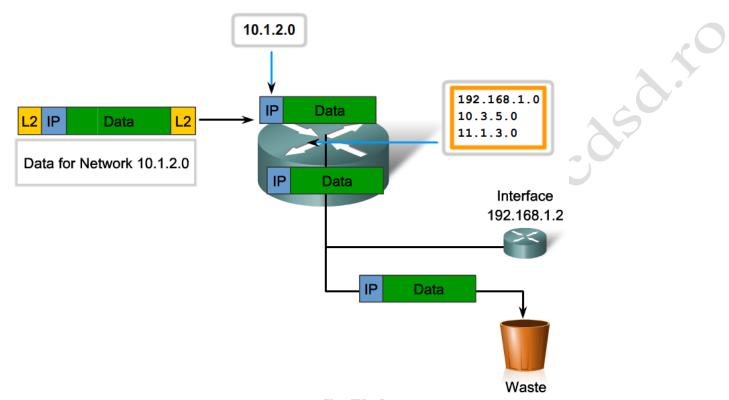
b. In tabela de rutare, exista o ruta default



- 3. Router checks the routing table for a match
- 4. Network 172.16.2.0 not in the routing table but default route to 192.168.1.2 exists
- 5. Router re-encapsulates the packet
- 6. Packet is sent to Interface 192.168.1.2

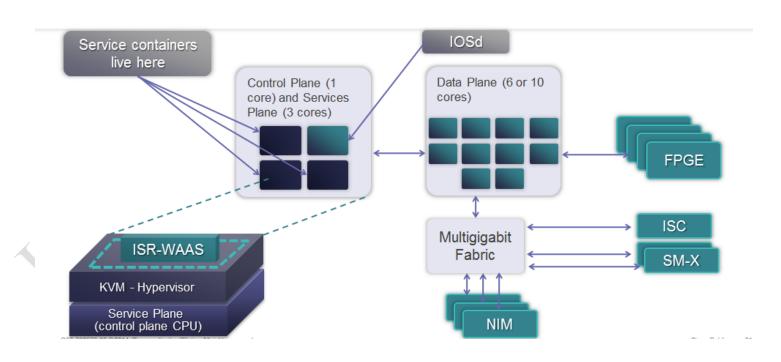
Contact: retelecdsd@gmail.com

c. In tabela de rutare, NU exista o *ruta* (inregistrare) cu privire la reteaua destinatie si nici o *ruta default*



Integrated Service Router – Solutie actuala (exemplu, Cisco)

ISR 4400 Series Architecture



• Front Panel Gigabit Ethernet (*FPGE*)

http://www.cdsd.ro

Contact: retelecdsd@gmail.com

- IP Solution Center (ISC) provides intelligent network management
- SM-X Layer 2/3 EtherSwitch Service Module
- WAN Network Interface Modules (NIM)

Re-designed Architecture For Branch Agility



ISR 4000 Series

