

Postcards from the Information Society

*Living with Always-On Technology:
The Good, the Bad and the Just Plain Baffling*

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Living in the Info Society

- Where Is the Info Society – And Where Isn't It?
- Networks, Devices & Apps
- The Good, the Bad & the Baffling
- Digital `Natives' and Digital `Immigrants'
- Has the Internet Overtaken Regulation?
- What Should Regulators Do?
- What's Next

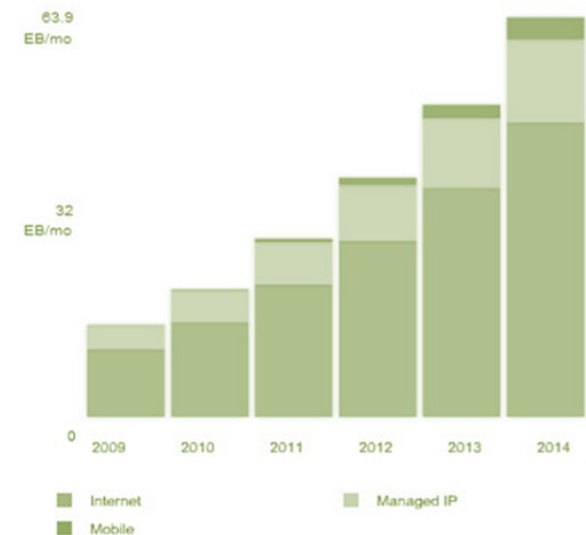




The Digital Divide

- Where the Info Society Is:
 - Internet users worldwide: 1.7 billion
 - Wireless broadband users: 650 million
 - Fixed broadband users: 480 million
- Where the Info Society Isn't:
 - Internet penetration in developing countries: 18%
 - Fixed BB penetration in those countries: 3.5%
 - Mobile BB penetration in LDCs: 3%
- The digital divide is both among countries and within them.

Stairway to (Digital) Heaven: Broadband Global Usage Forecast



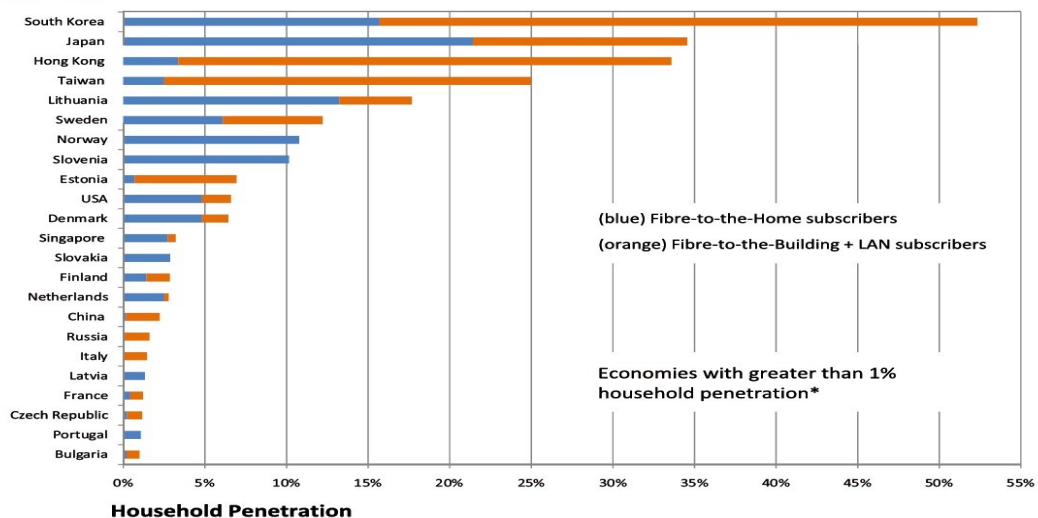
Source: ITU, *Measuring the Information Society, 2010*

Nets, Dongles & Apps

- The Information Society is driven by:
 - **Networks:** NGNs, 3G & 4G BWAs
 - **Devices:** laptops, netbooks & smart phones
 - **Applications:** social networking, location & 'augmented reality'



2009 Economies with the Highest Penetration of Fibre-to-the-Home / Building + LAN



Source: IDATE, RYLL, OVUM for Global FTTH Councils



The Good

- E-government
- Tele-medicine/e-health
- Distance learning
- ICTs for Development
- E-commerce
- Personal Networking





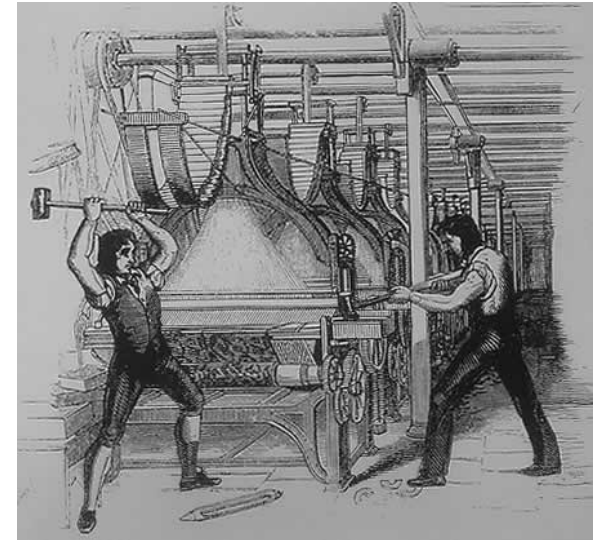
The Bad

- Getting Hacked
 - Viruses, worms, trojans, botnets
- Loss of Privacy
 - Online records, `street view' captures
- Cyber-crime
 - Fraud, identity theft, stalking & “cyber-bullying”
- Inappropriate Content
 - Pornography, defamation, violation of community values



The Baffling

- Internet “addiction”?
 - Managing social change
- The “Bowling Alone” argument
 - Are online friendships and communities authentic?
- New Media
 - Replacing or complementing old media?



Luddites!

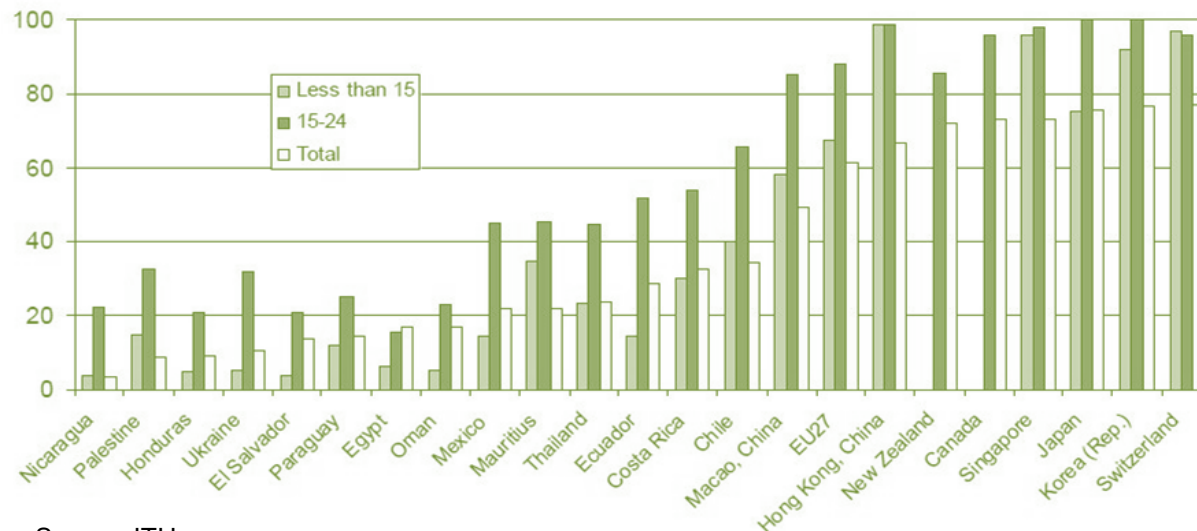




Digital Natives and Immigrants

- The Natives are Restless
 - Children face the new media unmediated
- Immigrants: No Country for Old Telephone Dialers
 - Consumers face cyber crime, password fatigue

Proportion of Internet Users, by age and total
(2008)



➤ In some countries, nearly 100% of children under 15 are Internet users.

➤ In most countries, the most active group of Internet users is young people, ages 15-24.

➤ In all countries cited, users under 24 exceed older cohorts in proportion of Internet use.



The Internet & Regulation

- Is the Internet Overwhelming Regulation?
 - Jurisdiction: Who oversees the Internet?
- How Do You Classify Internet Services?
 - Common Carriage vs. “broadcasting”
 - Are ISPs or social networking websites responsible for users’ posts?
 - Is YouTube a broadcaster or a carrier – or something else?
- How can NRAs regulate the Internet?
 - It’s a global medium, with transnational infrastructure



Choices for Regulators

- Promoting BB Infrastructure
 - Universal access/service – Should BB be included?
 - International backbone access – How to address the conundrum
- Asymmetric regulation/regulatory convergence
 - Should Internet-based services be given a “lighter touch”?
 - Regulating “down” or “up”
- Consumer Protection & Education
 - Privacy Protection: Who has access to customer information, and why?
- The ‘Net Neutrality’ Debate
- Spectrum assignment and harmonization

Are All Bits Created Equal?



Questions to Consider

- How should regulators confront digital divide realities?
- Are regulators paying enough attention to consumer issues? Do consumers want them to intervene more often?
- How can the Internet be used to bolster, not erode, cultural integrity and participation in civil society?
- How can governments address security concerns without stifling the full benefits of the Info Society?



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