



communications convergence and the new global village

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the views expressed in this presentation are those of the author and do not necessarily reflect the opinions of the ITU or its membership.
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shifting gears



transitions & transformations

distance	→	<u>proximity</u>
slow	→	fast
sporadic	→	perpetual
fixed	→	mobile
single	→	multiple
stability	→	uncertainty
user	→	producer
real	→	virtual
local	→	<u>global</u>

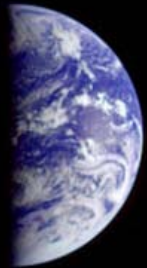


image:NASA

trends and tendencies

- growth of mobile wireless: more than 1 mobile phone for every 3 humans on the planet
- growth of high-speed broadband access infrastructure
- promotion of “always-on” access, e.g. blackberry, mobile internet
- advances in computing to render information even more “ubiquitous”
- continued expansion of the internet as a platform of information, communication, entertainment, and creativity



convergence at many levels is a key enabler of these trends

considering
convergence





defining convergence



- the action or fact of converging; movement directed toward or **terminating in the same point** (*OED*)
- the approach toward a definite value, as time goes on, or to a definite point, **a common view or opinion** (*wikipedia*)
- the process by which **originally distinct technologies** may become **more compatible or integrated** as they develop (*OED, draft additions 2003*)
- convergence (converged environments/networks) defines a **multimedia environment** and/or network where signals **regardless of type** (i.e. voice, quality audio, video, data, etc.) and encoding methodology may be **seamlessly exchanged** between independent endpoints with similar characteristics (*wikipedia*)

its many flavours

- **devices/terminals**

TV, gaming console, PC, mobile, PDA, MP3 player, RFID

- **network/transport**

fixed, wireless, broadcast, satellite, IP (towards all-IP and NGN)

- **content/services (media)**

voice, data, audio, video, e/m commerce, education, software, portals...

- **industrial**

media, software/computing, consumer electronics, telecommunications

- **corporate**

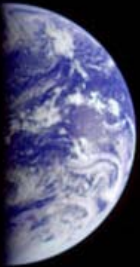
business models, mergers, consolidation

- **policy and regulatory (institutional)**

broadcast regulation, content regulation, utilities regulation, competition regulation, telecommunication regulation, consumer protection

- **social**

disparate groups, interests, collective welfare, collective thinking



a multiplicity of devices



flickr/dan dickinson



flickr/R26B



apple.com

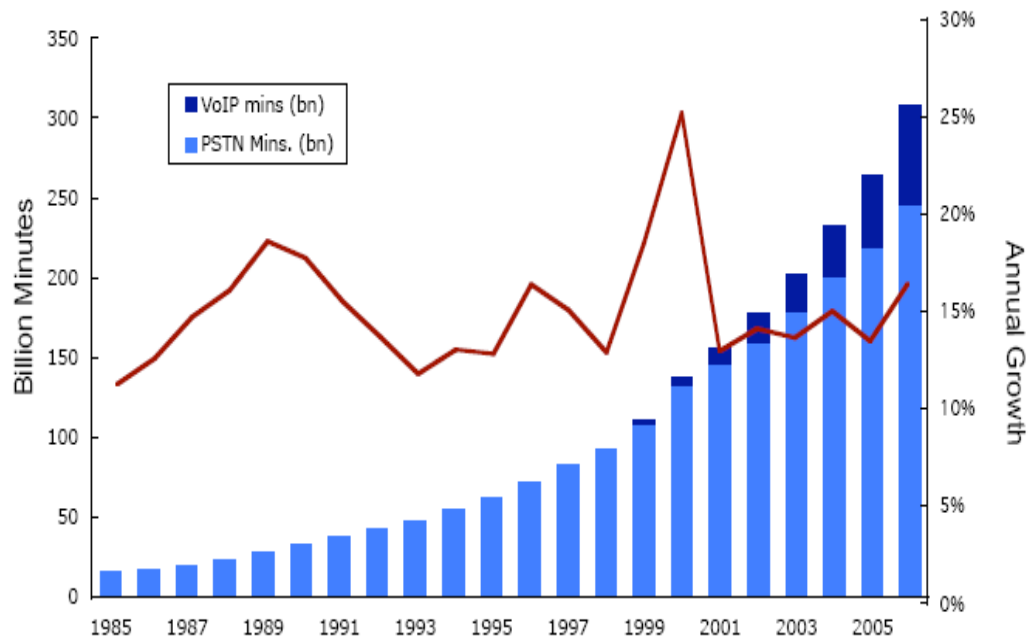


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making global communications cheaper and more accessible

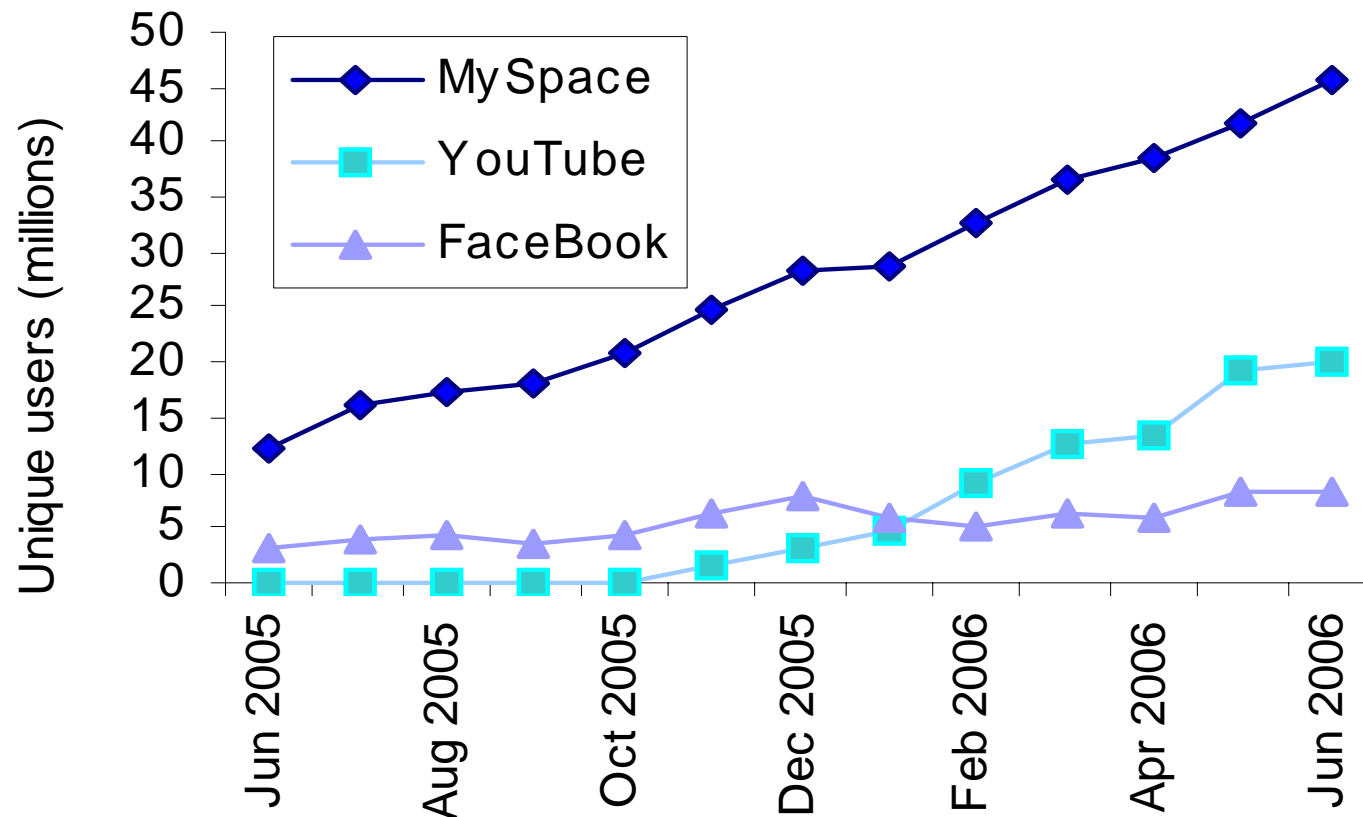


Source: Telegeography



Lara Srivastava, Mumbai, March 2007

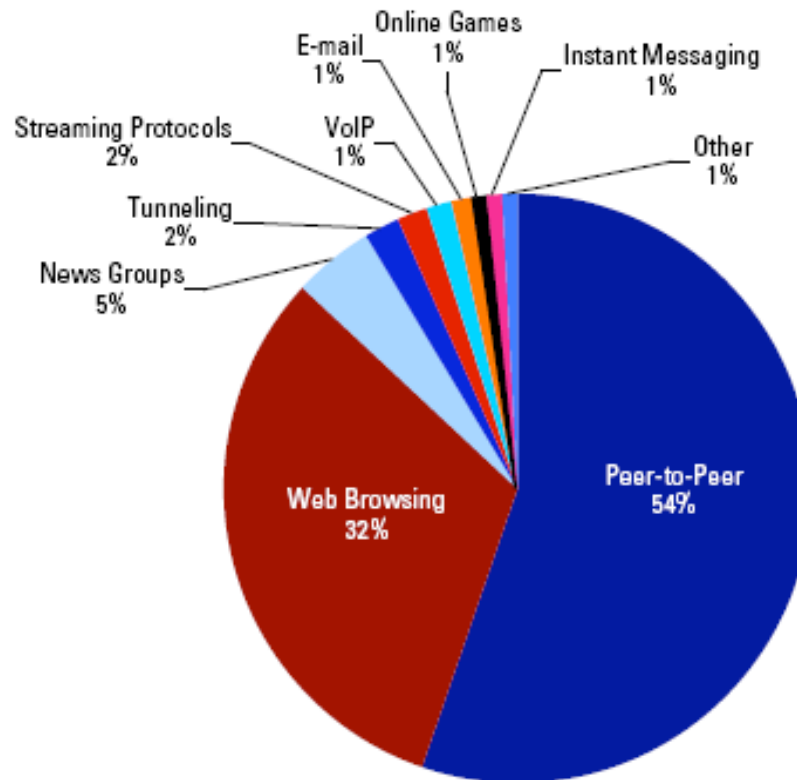
it means communications takes on entirely new dimensions



ITU Internet Report 2006: [digital.life](#)

the driving force of peer to peer, person to person, user to user

Internet Traffic by Application



Source: Sandvine,
Telegeography, 2006

even entertainment turns over a new leaf



flickr/another penny lane

flickr/aditza121



convergence...



divergence...



urban-rural convergence

urban-rural divergence



flickr/marc shandro

convergence of generations, divergence of generations



real-virtual convergence, real-virtual divergence



flickr/pathfinder linden

transition
and evolution...



the converging web: 1.0, 2.0. 3.0?

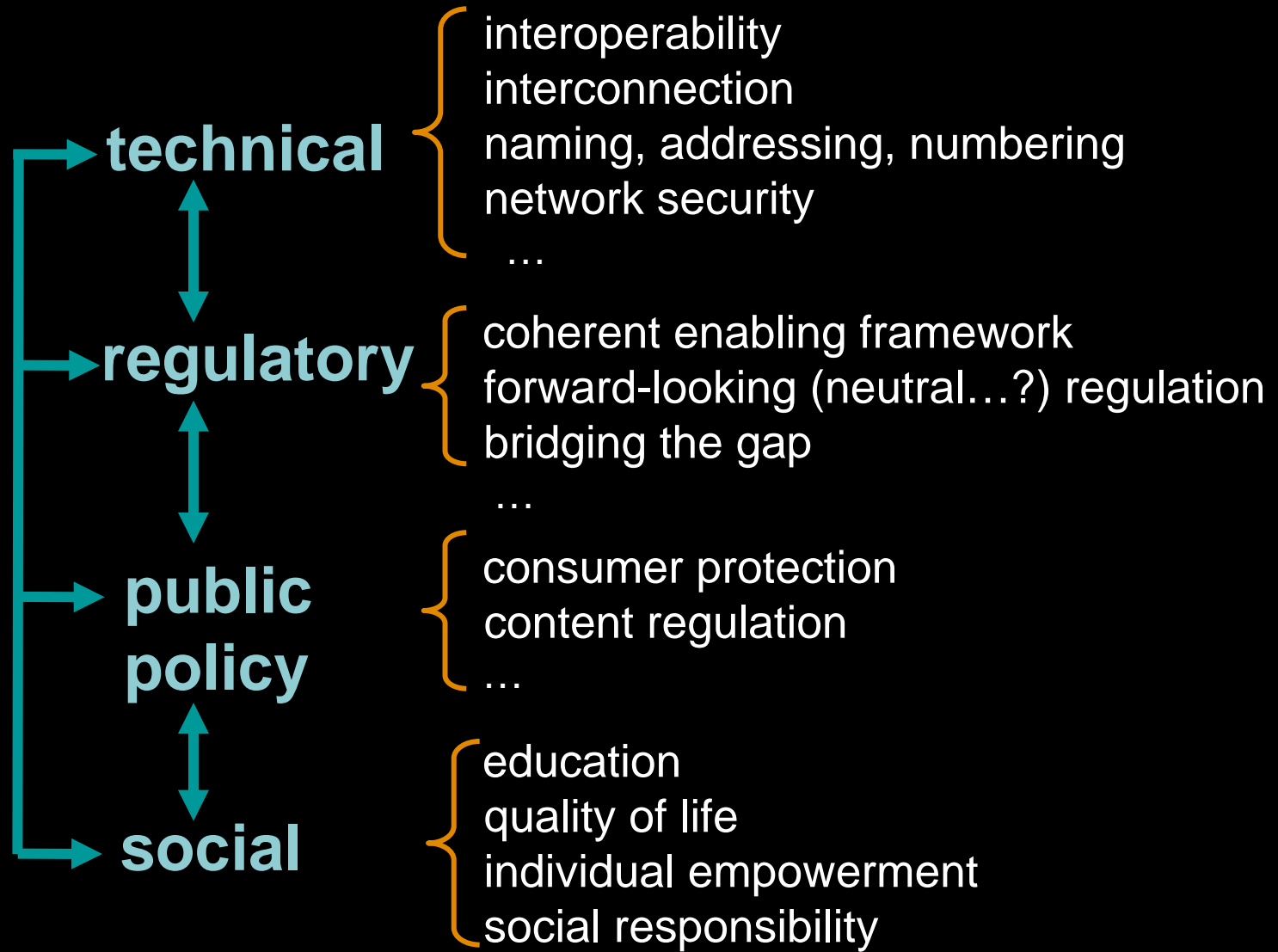
- **web 1.0** characterized by one-way interaction between businesses and users
- **web 2.0** characterized by user-driven platforms and content (e.g. creation, re-use, sharing).
 - also a social phenomenon in its own right
- what might the 3rd generation of the web bring?
web 3.0 may combine web 2.0 with the fruits of convergence at many levels, leading to the creation of a truly ubiquitous and intelligent global web

what's next?

***rising to the
challenge***



a sampling of the challenges ahead



educating the child in us



flickr/shashwat nagpal

managing complexity



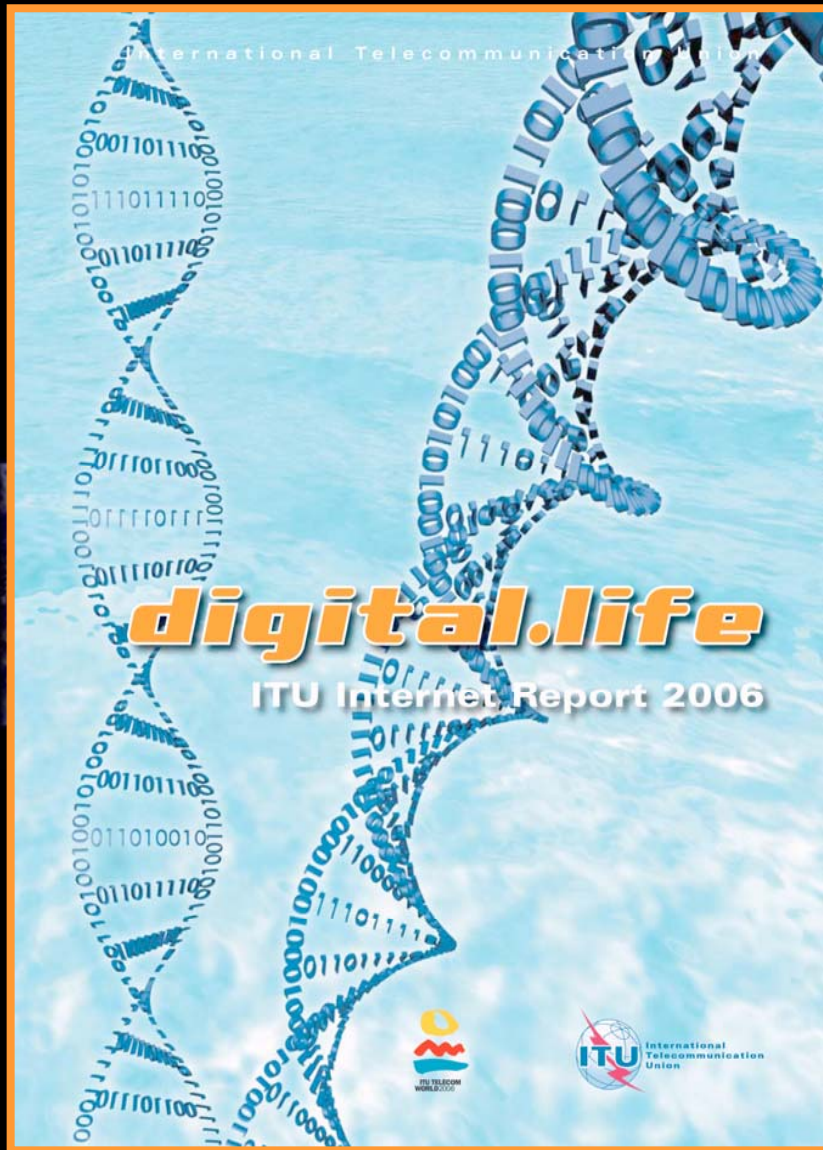
understanding identity



delaney/srivastava

capitalizing on the local





ITU Internet Reports 2006

digital.life

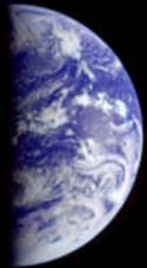
- I. going digital**
- II. lifestyles.digital**
- III. business.digital**
- IV. identity.digital**
- V. living the digital world**

free download at:

www.itu.int/digitalife

World Telecommunication Policy Forum 2009

on Convergence and Emerging Policy Issues



www.itu.int/wtpf

WTPF – Geneva, March 2009

preparatory process begins now!

BE A PART OF THE FUTURE

*nothing ever exists entirely alone
everything is in relation to everything else - buddha*



thank you!

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