Connecting the Unconnected by 2015 "Bridging the Digital Divide"

Donald M. Whiteside VP Corporate Technology Group Intel Corporation

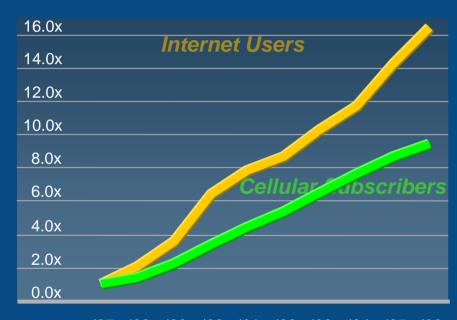


An Inclusive Society

<u>Ubiquitous Broadband</u> is the key enabler

Multi-modal communications
Education
Information access
Cultural & Entertainment
Citizenship Involvement
Medical Services
Commerce & Business; B2B & B2C

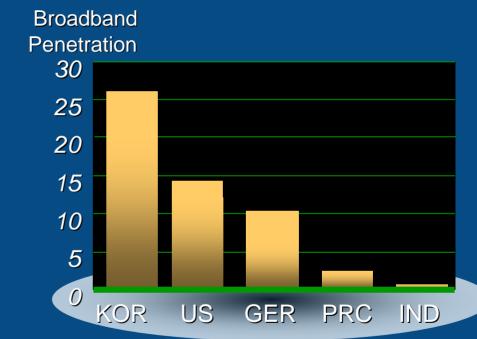
The Internet Is The Great Growth Engine Internet and Cellular Phone Users, Indexed Over the Last 10 Years



'00 '01 '02 '03 '04 '05 '06 Source: Internet World Stats, RHK, Gartner

But The Digital Divide Is Real

Broadband Subs per 100 Inhabitants



Source: OECD, June 2005

Only Wireless can close the "Digital Divide"

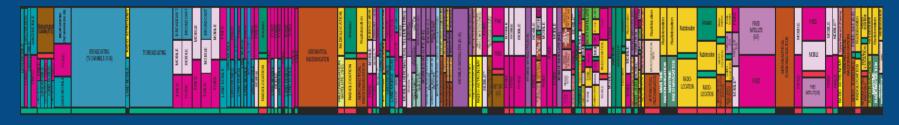
ITU Spectrum Workshop Goal

"Ensure rational, efficient and economic use of, and equitable access to, the radio-frequency spectrum"

Spectrum by Region Projected '06-'08 Deployment Bands



There is much work to be done!



Spectrum Harmonization

What policies should we promote to achieve our goals of ubiquitous connectivity and bridging the Digital Divide?

- Regulation Philosophy Policy Based vs. Dedicated use
- Liberalize spectrum licenses
- Unlicensed "white spaces" (underlay & overlay)
- Device certification rules that comprehend & stimulate technology advances
- Global "Frequency" Harmonization

Spectrum Policy Guidelines

- FLEXIBLE management of spectrum allows nations to benefit from the coming wireless revolution
 - New technological developments will allow many radios on a single chip
 - Flexible policies ensure superior availability to <u>cost-effective</u> services and access devices
- Policies need to support rapid technology innovation
 - Regulation specifying which technologies an operator may deploy risks becoming obsolete
 - License holders should be able to deploy the best solution for their market, as long as they adhere to regulation
- Usage models are evolving AND converging
 - Fixed, Nomadic and Mobile Services are converging
 - Spectrum policy should enable usage models to evolve

What is needed at the International level

International and National authorities should work towards a pro innovation spectrum policy characterized by :

Lower barriers to access to spectrum, improving efficiency, promoting innovation, greater flexibility for users and more choice for consumers

A fully functioning internal market needs to find the right balance between

- technology neutrality
- Open, transparent, proportionate, nondiscriminatory
- Efficient use of spectrum and avoidance of interference
- Competitive and innovative environment