

Fostering Globally Accessible and Affordable ICTs

by

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Global Information Society

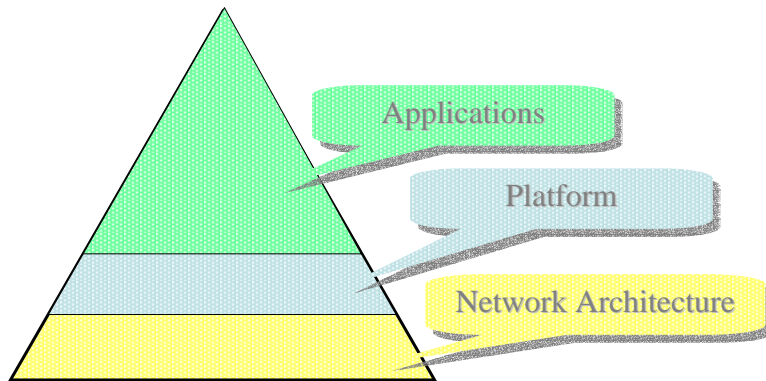
■ Technology

- From ICT revolution to ubiquitous computing
- Transmission speed from megabits, gigabits to googabits per second

■ A great migration toward the digital continent

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Network Social Infrastructure



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Architecture

Accessibility

- Choice of technology
- ✓ wired
- ✓ wireless
- ✓ keitai (mobile)
- Investment

Affordability

- Government subsidy
- Regulated tariff
- Facility-based competition
- Universal service fund

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Platform

Accessibility

- Development
- Standards
- Security, privacy, decency
- Harmonization of tax, settlement, regulation, intellectual property

Affordability

- Nexus technology
- Nexus institution
- “Lock-in” effect avoided

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Applications

Accessibility

- Computer literacy
- Deregulation
- Cultural impediments
- Cyber society convention

Affordability

- Competitive industry
- Fair-use copyright

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Increasing Accessibility

- Evolving notion of universal service
 - Physical connectivity
 - Active participation
- Digital empowerment
 - Transfer of property rights: a revolution
 - Economic, political and social inclusion

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Increasing Accessibility

- Competition and viable infrastructure development: a trade-off?
 - Facility-based competition
 - Auctioning frequency band
 - Old public utility dilemma

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Increasing Accessibility

- Global universal service fund proposed
 - Expand the basic concept of universal service fund in US and Japan
 - Affordable accessibility
 - Platform standards
 - Information literacy

Affordability

- Choice of infrastructure
 - Wired technology
 - Wireless infrastructure
- Pricing strategy
 - Internet subsidy
 - Strategic introduction price, or predatory pricing

Affordability

- Government subsidy and WTO principle
 - Cost incentive, subsidy on investment and R&D
 - Flying geese or leap-frog
 - Infants that grow too fast
- Affordability for whom ?
 - 20% of population; a rule of thumb
 - Make room for those who refuse to ride on

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Governance of GIS

- Cyber space convention
 - Platform, copyright, security, tax, global currency, decency, privacy
- Conformity and diversity
 - Physical and cyber world
 - Diverse paths to future
 - Efficiency, equity and sustainability

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Policy Agenda for GIS

- Global Universal Service Fund
- Geneva Convention for GIS
- Cyber Security Council

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For more discussion, please see

Toshihiko Hayashi,
“Fostering globally accessible and affordable
ICTs”,
International Telecommunication Union, 2003.
Downloadable from the web site
<http://hayashiland.com/article.html>

Thank you.

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