#### International Telecommunication Union





# Beyond Converging Networks

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Workshop on IPv6 Geneva, 22-23 June 2005



## Asking The Right Questions

- o The Ouestion Is NOT About
  - Whether we need IPv6 or
  - When we need IPv6
- The Question is about:
  - What role IPv6 plays in a digital society?
  - What goal can it help to achieve?
  - What should be the strategy for implementation?



#### In a Converging Landscape **Business Entertainment** TV PC Internet Data DTV **Streaming** Web TV **Enterprise** Media **PVR Portals Basic Proprietary** Dual rsonalization Convergent **DSTB** Screen Security European IPv6 Task Force **Open Cable Filmless Device-Specific** Camera Content-Content **Architecture** Content **DVideo** Home **Family Vireline Theater** Voice Porta Messaging **Gateway** Tablet M-Player ireless Home **FORUM** Location-**Phone** E-Game Stereo Based **sPhone** Console **PDA** + 2 Year **Proprietary Appliances** Micro GPS **Game Console** Palmtop/ HomeNet-2 **Energy Telematics SMS/Pagers** +1 Year Security **GPS** GM **HomeNet-1 Mobile and Wireless Appliance** OnStar Now Consumer **Mobile** Gartner Workshop on IPv6 Geneva, 22-23 June 2005 dates

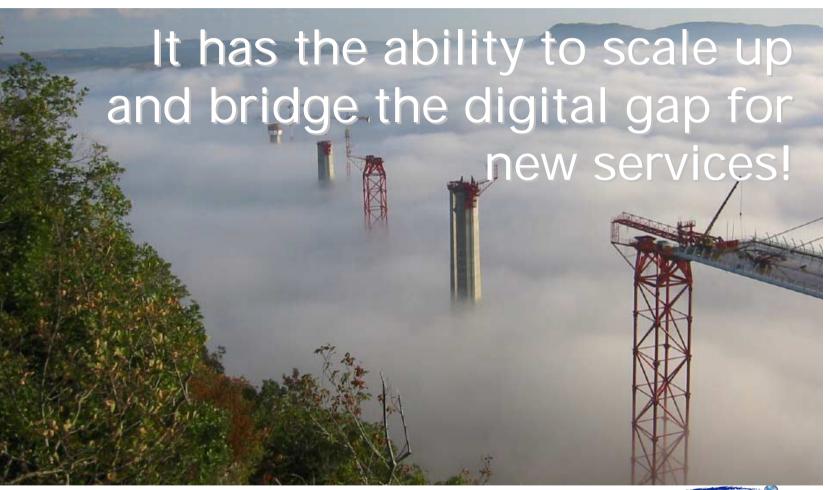


## IPv6 is Pure Technology

BUT, like these pillars











## Convergence: The European Drivers





### Started with Industry & Commercial

- IPv6-enabled Solutions & Applications:
  - Software: 6WIND (networking),



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# Need to Complete with Global European Vision + Policy?

- Defense: MoDs,
- Regional techno
- Car-2-Car
   Consortium: veh
   telematics

Alcatel, Nokia, Inales ...

 Industry Groups: FT, Renault, ESA, Eurocontrol ...

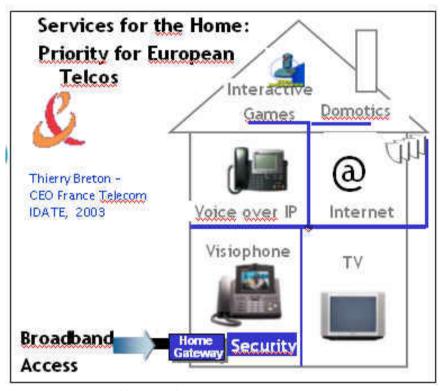






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## To Sustain Growing Services





- Broadband throughput increases with triple play services
- Smart Internet-connected devices increases
- Always-on access with extended reach
- Access network independent
- Unique authentification
- Name servers
- o Wireless & PLC on the rise





## Convergence: The Japanese Vision









#### Basic u-Japan Concept

MIC

#### u-Japan is the next generation ICT society from 2010

#### u-Japan (Ubiquitous Japan)

#### Ubiquitous

Connects everyone and everything

OAn easy-to-use network anytime, anywhere, with anything and for anyone.

- ICT will be everywhere in daily life for a user-friendly society OPerson2Person plus Person2Goods, and Goods2Goods
- In every aspect, communication will take the more important role in society

#### Universal

#### User-friendly

OGentle with people

- Can be used by anyone without thinking of the equipment or network
- The aged and disabled will be able to participate in society with ICT

OInteraction

 A heart to heart interaction overcoming barriers between generations and localities to create togetherness

#### User-oriented

From the user's point of view

OClose to the user

- For a society that is user-orientated than a society where objects are given by the supplier
- Developing technologies and services that are connected to our needs

#### Unique

Be something special

OCreate individual energy

- A new society where your dreams come true
- OVitalize the society
- Create new social systems and business services
- Get out from the norm and realize local revitalization with creativity



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#### **Procurement of IPv6 Devices**

MIC

The e-Government Creation Plan was revised to encourage the adoption of <u>"IPv6"</u>. The procurement of IPv6 capable devices will be facilitated.

#### e-Government Creation Plan (revised)

June 14, 2004

Inter Ministerial CIO Liaison Conference

- 2 Improvement of the information system and its management
- (5) Advancement of the information system

Each Ministry shall plan to advance its information system by gradually introducing the technological innovations such as <a href="IPv6">IPv6</a>, based on its Optimization Plan of Work and Systems.

#### e-Government Creation Plan (MIC)

- 2 Improvement of the information system and its management
- (2) Introduction of IPv6

In order to realize the efficient and effective management, the LAN of the Ministry of Internal Affairs and Communications shall be gradually <u>migrated to IPv6</u>, based on the Optimization Plan of the MIC network.









### Supply of Commercial products

MIC

#### O Various commercial products have been placed in the market

network camera, printer, router, IP phone, LSI, building management system, etc.













#### O IPv6 connection service (Major topic)

- -Plala Networks (NTT Group) started IPv6 multicast personal IP TV service.
- -NTT East & West started IPv6 video phone service .

#### O Interoperability

#### IPv6ReadyLogoProgram

the devices that pass a certain test to confirm the interoperability with other devices are furnished with "IPv6 Ready Logo"

As of January 31 2005, 137 products have obtained the Logo and the number is increasing. (67 Japanese Vendors' products are included)



IPv6ReadyLogo





## Convergence: Korean Alchemy for Success





## Clear MIC Policy & Strategy IT839 and IPv6 Policy

IT839 Strategy: A master plan for the IT industry, in an effort to gain more growth momentum from the IT sector in Korea.



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Introducing and Promoting Eight Services

Building Three Infrastructures Development of Nine IT New Growth Engines

WiBro Service

IMB (terrestrial/satellite)

Home Network Service

Telematics Service

RFID based Service

W-CDMA Service

Terrosterial D-TV

Internet Telephony (Walls)

BCN U-Sensor Network IPv6 NO Mointle Communications
Digital IV
Home, Heliconic
IN Sec
Manuscript Str
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Invelligent Service Prices

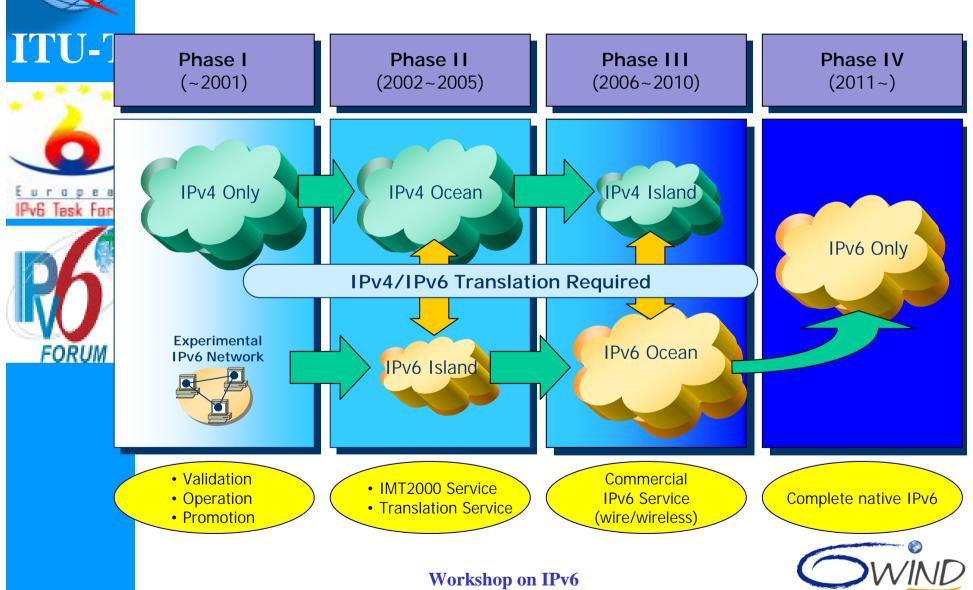
KOREA will expand IPv6 pilot networks in 2004 Provide All-IPv6 based services since 2010





dates

#### **Clear Transition Timeline**

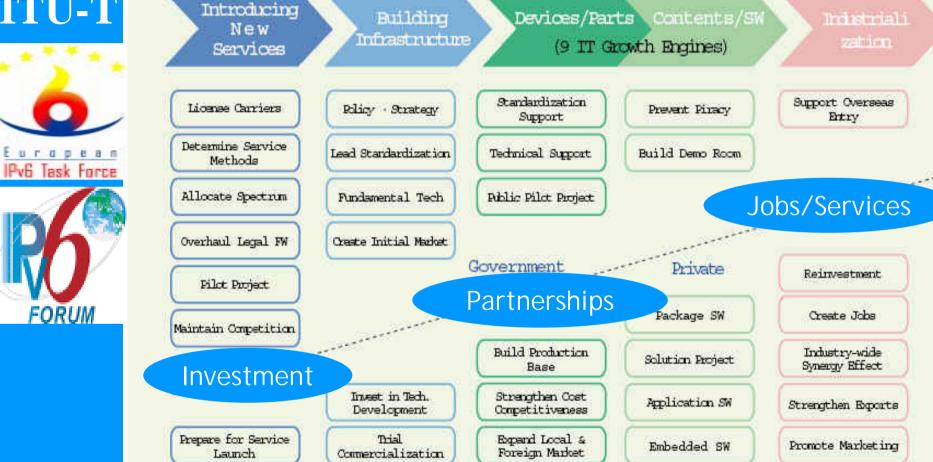


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## Clear Definition of Stakeholder Roles

■IT Industrial Value Chain & Roles of Government and Companies



Regulation Industrialization

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## **IPv6-Ready Solutions**



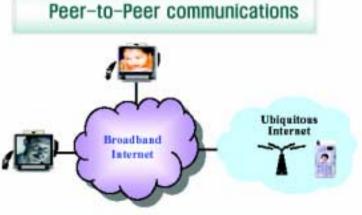




## Prioritize Pragmatic Applications

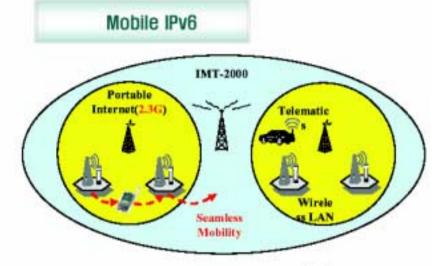




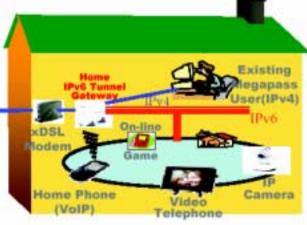


**Home Network** 

The Value Networking Company







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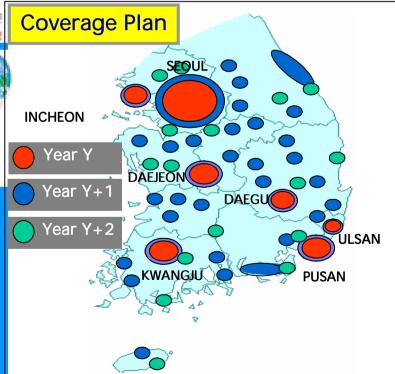


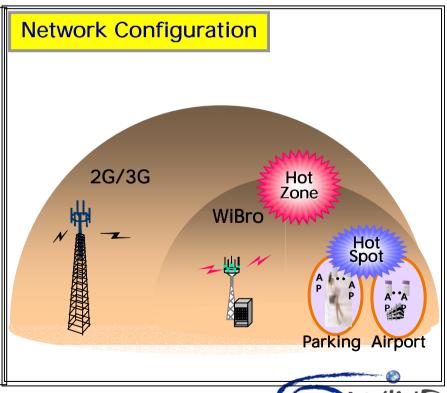
## Coverage for User Benefit

 In the first three years, IPv4/IPv6 WiBro will cover 84 cities in Korea.

• 90% of 48 million population will be covered









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## Convergence of ICT-Economy-Society

- o IPv6 Implementation must incorporate:
  - Clear vision & policies -ICT+Economy+Society
  - Clear transition timeline
  - Clear application & service focus
- o Driven by:
  - Public & Private Sector
  - Smart Commercial Partnerships
  - User Benefits

