



# *IPv6 FORUM*



# IPV6

## 21st CENTURY

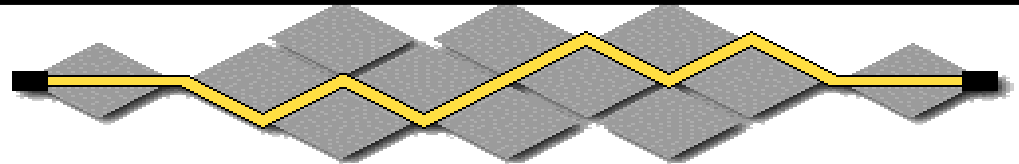
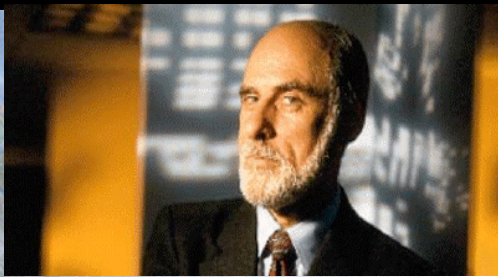
### INTERNET



# IPv6 FORUM



*Supported by:*



**I E T F**

**Internet  
Architecture  
Board (IAB)**

**IPv6 WG**



# IPv6 Forum BOARD

- Honorary Chairman: Vint Cerf



**Latif LADID**  
President



**Jim Bound**  
Compaq



**Bob Hinden**  
Nokia



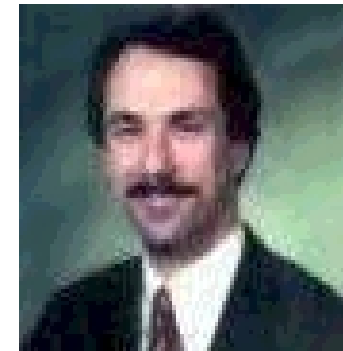
**Bob Fink- ESNet**



**Patrick Cocquet**  
6WIND



**Takashi Arano**  
Global Crossing



**Marc Blanchet,**  
Viagenie



# Current IPv6 Forum ENTITIES:

## - IPv6 PROMOTION GROUP

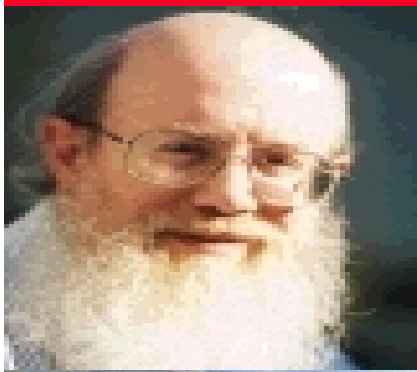
- IPv6 Education & Awareness Programs
- IPv6 Projects
- Global IPv6 Summit/Conferences
- IPv6 Public Relations
- IPv6 Forum Strategic Alliance Program

## - IPv6 TECHNICAL DIRECTORATE



# ***IPv6 Technical Directorate***

**Chair: Jim Bound**



**Scott Bradner**



**Brian Carpenter**



**Steve Deering**



**Christian Huitema**



**Allison Mankin**



**Yanick Pouffary**



**Charlie Perkins**



**Thomas Narten**



**Erik Nordmark**



**Thomas Ecklund**



# *IPv6 Technical Directorate*



**Francis Dupont**



**Alain Durand**



**Tim Chown**



**Henk Steenman**



**Stephen Hayes**



**Stig Venas**



**Carl Williams**



**Jordi Palet**



**Matt Crawford**

**Dale Finkelson**

**Peter Tattam**

**Brian Haberman**

# *IPv6 Technical Directorate*

- **Definition and goals of this Directorate:**
  - **Responsible for technical part of the Forum**
  - **Gives direction and advice to Forum and industry**
  - **Make the link between IETF and industry (both ways)**



# 2003 IPv6 Forum SUMMITS

## COMMITTED GLOBAL IPv6 SUMMITS

	Organisator	Status	Date	Place
Bangalore IPv6 Summit	IPv6F India		Jan 23-25	Bangalore
Taipei IPv6 Summit	IPv6F Taiwan		Feb 23-25	Taipei
China IPv6 Summit	IPv6 Forum		April 2-4	Beijing
Madrid IPv6 Summit	IPv6 Forum		May 12-14	Madrid
North American IPv6 Summit	IPv6 Forum		June 24-27	San Diego
Seoul IPv6 Summit	Korea v6 Forum		July 3-4	Seoul
Belgian IPv6 Summit	Belgian IPv6TF		Sep 22-26	Brussels
Kuala Lumpur IPv6 Summit	IPv6F Malaysia		Oct 20-22	Kuala Lum
US IPv6 Summit	IPv6 Forum		Dec 9-11	Washingto

# Strategic IPv6 Icebreakers

ETSI  
CWTS  
ARIB  
TTA  
TIC  
Telecommunication Technology Committee  
**3GPP**  
A GLOBAL INITIATIVE

ETSI

I M T

Next Generation  
**IPV6 TASK FORCE**

**IPv6 FORUM**

**NGN initiative**  
Next Generation Networks

6net

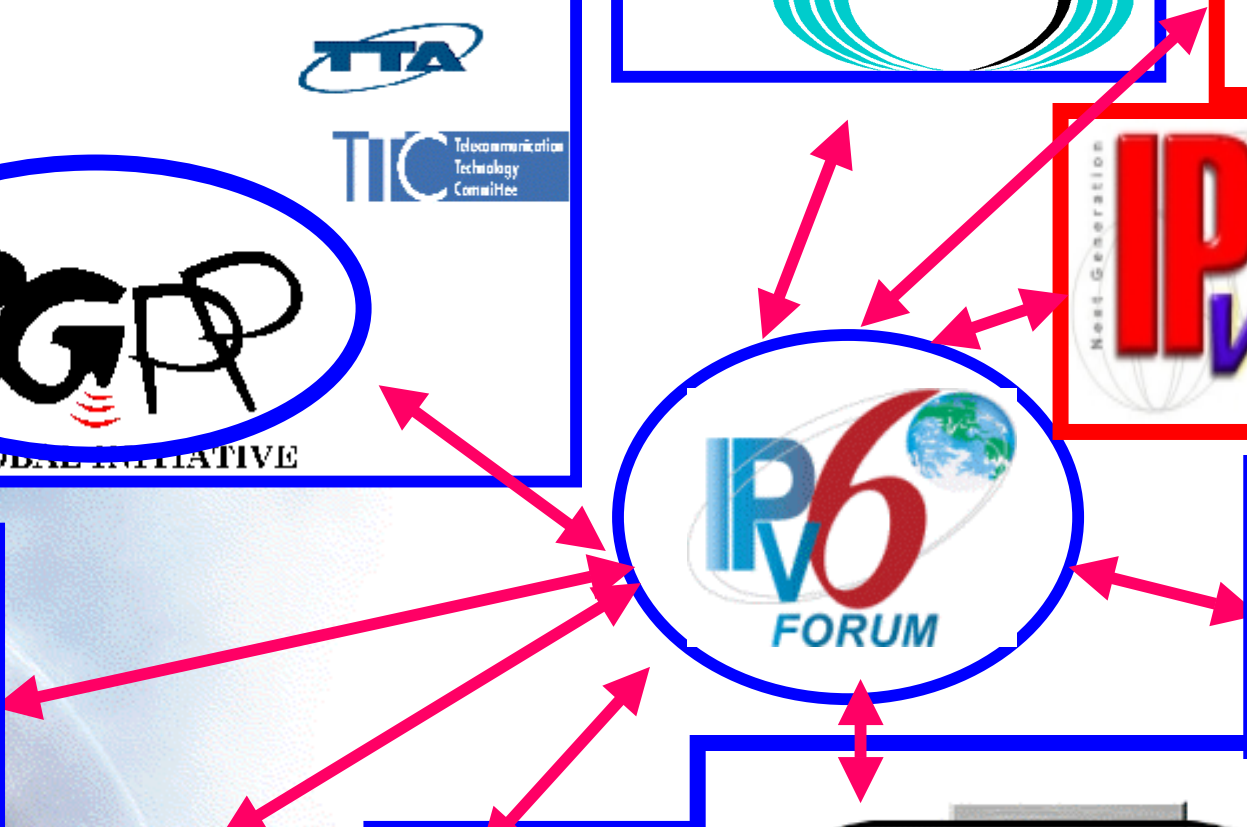
**6IX**  
Euro6IX  
IPv6: The New Internet  
www.euro6ix.net

**IPv6 WINIT**

**IPv6 6INIT**

**ist**  
information society technologies

European Union flag and a stylized logo



# Worldwide IPv6 Forum Chapters



**IPv6 Forum:**  
**Russia**  
**Malaysia**  
**Mexico**  
**Singapore**  
**Tunisia**  
**Brazil**  
**Saudi Arabia**  
**Morocco.**

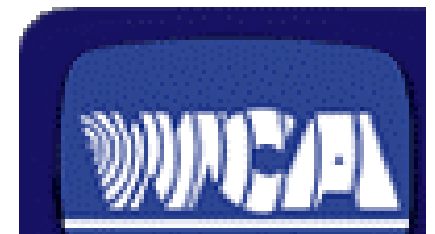
# Worldwide Partnership



INTERNET SOFTWARE CONSORTIUM



International Engineering Consortium  
Catalyzing progress in the information-in



# 100% IPv6 Readiness by 2005

- Prime Minister of Japan  
Yoshiro Mori

- Korean MIC followed  
Japan Feb 23, 2001

- The 7th Japan-China Regular  
Bilateral Consultation Dec  
2001



# The European Commission Formed an IPv6 Task Force in March

- Commission President  
Erkki Liikanen

- Recommendations  
Reports Jan 2002  
[www.ipv6tf.org](http://www.ipv6tf.org)

- 6NET & Euro6IX Large Scale  
Testbeds 34 M€



Clear roadmap  
towards IPv6 !

# Bob Kahn Conclusions



- *IPv6 is under hyped (for what it really will do)*
- *Industry cannot make it happen*
- *DOD must return to leadership*



**Policies in Focus**

- [National Security](#)
- [Homeland Security](#)
- [Economic Security](#)
- [More Issues](#)
- [En Español](#)

**News**

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- [Video](#)
- [Press Briefings](#)
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- [Executive Orders](#)
- [Radio Addresses](#)

**News by Date**

- [April 2003](#)
- [March 2003](#)
- [February 2003](#)
- [January 2003](#)
- [December 2002](#)
- [November 2002](#)
- [October 2002](#)
- [September 2002](#)
- [August 2002](#)
- [July 2002](#)
- [June 2002](#)
- [May 2002](#)
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- [January 2001](#)

**Appointments**

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**Photos**

- [Photo Essays](#)

**Federal Facts**

- [Federal Statistics](#)

[History](#)

# DOD Commits to IPv6



(Click here to download entire Strategy)

## The National Strategy to Secure Cyberspace

The *National Strategy to Secure Cyberspace* is part of our overall effort to protect the Nation. It is an implementing component of the *National Strategy for Homeland Security* and is complemented by a ***National Strategy for the Physical Protection of Critical Infrastructures and Key Assets***. The purpose of this document is to engage and empower Americans to secure the portions of cyberspace that they own, operate, control, or with which they interact. Securing cyberspace is a difficult strategic challenge that requires coordinated and focused effort from our entire society, the federal government, state and local governments, the private sector, and the American people.

Mr. John L. Osterholz



West Wing



# The EC IPv6 Task Force

<http://www.ec.ipv6tf.org>



European Commission



English



Spanish



Information Society  
Technologies

[INFO DOCS](#) | [MEETINGS](#) | [PRESS ROOM](#) | [LINKS](#) | [T.F. MEMBERS](#) | [PRIVATE](#)

**1st Phase FINAL REPORTS**

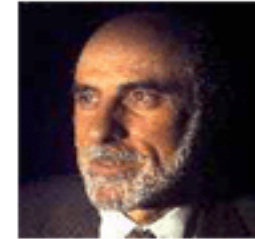


Erkki Liikanen

**"Our objective is to ensure that Europe's competitiveness in wireless technology is not jeopardised by the lack of a clear road map towards IPv6,"** European Enterprise Commissioner Erkki Liikanen said in his opening speech to the IPv6 Task Force.



European Commission  
IPv6 Task Force



Dr. Vinton Cerf

**"The value of IPv6 can be realized only if the deployment effort is broadly based on a global scale. Part of the IPv6 Task Force effort needs to be devoted to fostering IPv6 understanding where ever the Internet has gone, and beyond that to places where it can go with the help of the much-expanded IPv6 address space.**

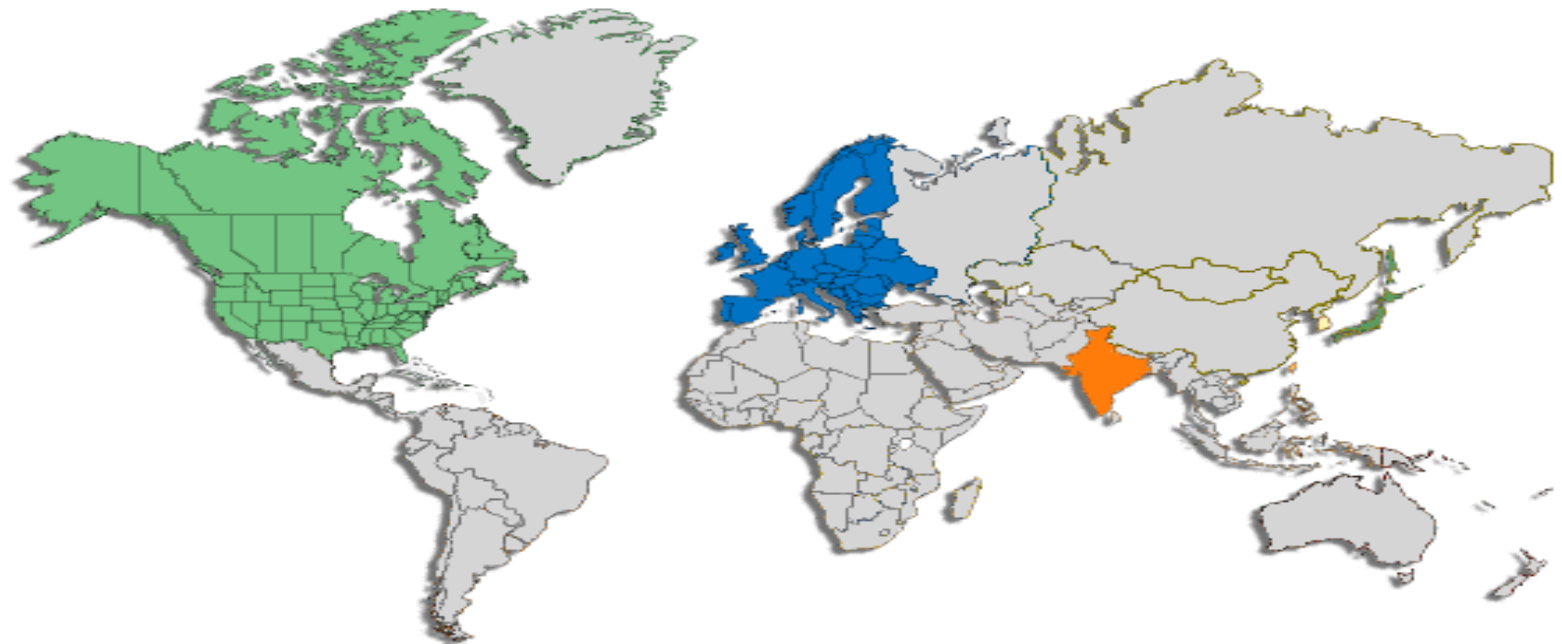
**I encourage your initiative and support your efforts to create a receptive environment for the development, delivery and use of IPv6 in the global Internet".**

# The Global IPv6 Task Force Portal: <http://www.ipv6tf.org>

## IPv6 TF Around The World



European Commission  
IPv6 Task Force



### [Statistics](#)



Dr. Vinton Cerf

You are using IPv6 (2001:800:40:2a44:220:e0ff:fe6b:441d)

"The value of IPv6 can be realized only if the deployment effort is broadly based on a global scale. Part of the IPv6 Task Force effort needs to be devoted to fostering IPv6 understanding where ever the Internet has gone, and beyond that to places where it can go with the help of the much-expanded IPv6 address space.

I encourage your initiative and support your efforts to create a receptive environment for the development, delivery and use of IPv6 in the global Internet".

# The European Portal:

## <http://www.ipv6tf.org/europe.php>



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IPv6 TF Around the World

## IPv6 TF in Europe



You are using IPv6 (2001:800:40:2a44:220:e0ff:fe6b:441d)



Belgium



France



Germany



Luxembourg



Portugal



Spain



Switzerland



U.K.



# The National IPv6 Task Force's sites

**Homepage**



**Sitemap**

- Home
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- White Paper
- Impressum
- Pressemittlungen
- April-Event
- April-Event (Agenda)
- Agenda
- Pressemitteilung
- Bilder
- Management
- [An-/Abmelden]

## IPv6 Taskforce Deutschland

Homepage der IPv6 Taskforce Deutschland

Die Mission der Deutschen IPv6 Taskforce besteht in der Unterstützung und der Promotion von IPv6 auf dem deutschen Markt sowie der Vorbereitung der Einführung und Verbreitung von IPv6 in Deutschland zum baldmöglichsten Zeitpunkt. Nur mit dem Übergang zur nächsten Generation des Internet-Protokolls kann das Internet den anstehenden Aufgaben gerecht werden.

Die Deutsche IPv6 Taskforce hat sich etabliert, um die Vorteile und die Herausforderungen für die deutsche Internet-Gemeinde, die sich aus der Anwendung des Internet Protocol Version 6 (IPv6) ergeben, hervorzuheben.

Die IPv6 Taskforce strebt einen Dreijahres-Aktionsplan für die deutsche Internet-Gemeinde als Ganzes und für die Wirtschaft an, um die Vorteile von IPv6 zu realisieren und die Herausforderungen zu bewältigen. Dies wird durch die Zusammenarbeit von IPv6-Enthusiasten, Unternehmen und der Internet-Gemeinde erreicht.

Die Deutsche IPv6 Taskforce ist ein Zusammenschluss von IPv6-Enthusiasten, Unternehmen und der Internet-Gemeinde, die sich für die Einführung und Verbreitung von IPv6 in Deutschland einsetzen.

Forum | Noticias | Eventos | Links

Demanda en IPv6 - 2001-800-40244-220-40ff96b-441d



**Task Force France**

Bienvenue sur le site de l'IPv6 Task Force France (TFFF)

Conférence de presse 14 avril 2003

et un atelier  
Commission de Presse  
RFP/XXI  
Présentation de Patrick Couvart

Présentation de Olivier  
Vandenberghe  
Présentation de Yannick  
Meynard

L'IPv6 Task Force France a pour objectif de réunir les acteurs du déploiement afin de partager les expériences, coordonner des actions et devenir force de proposition.

Le déploiement d'IPv6 constitue un enjeu majeur pour l'Europe et pour la France. Cet enjeu est à la fois technique, économique et social. Technique, car il s'agit de faire évoluer l'architecture de réseaux existants et d'envisager leurs capacités pour prendre en compte des millions d'utilisateurs et d'équipements privés de « machines à communiquer ». Économique car cette évolution de l'Internet est un facteur de développement considérable pour de nombreux secteurs industriels et pour le secteur des services. Social, car les nouvelles capacités de l'Internet auront, à travers ses diverses applications, une influence directe sur notre vie quotidienne.

Pourquoi le déploiement des technologies IPv6, c'est essentiellement développer les offres de services Internet IPv6 et concevoir des applications pourvu que celles-ci exploitent les capacités de cette nouvelle version de l'Internet IPv6, qui ont en effet été de nouvelles successos au travers de nouvelles applications dans de très nombreux domaines : transport, musique, loisirs, santé, sécurité.

Le technologie

- IPv6
- Objetifs
- Organisation
- Partenaires
- Documents membres
- Activités
- Adresses
- Groupes de Travail
- Recommandations
- Forces IPv6

La technologie

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- Adresses
- Groupes de Travail
- Recommandations
- Forces IPv6

Ben Vindto ao Site da Task Force IPv6




European Commission  
IPv6 Task Force  
MEMBER

DOCUMENTOS

- Home
- What is IPv6
- Why IPv6
- About the TF
- Members of the TF
- Events
- Documents
- Literature
- IPv6 in the Press
- Links
- Member Area


**BEULISAN**



**Task Force**

- Home
- Members
- Recruiting a member
- Malware
- Event Links
- Belgian IPv6 Forum
- Contact us

## Welcome to the Belgian IPv6 Task Force



**UK IPv6 TASK FORCE**

The UK IPv6 Task Force is leading the migration to the next generation of the Internet. Participation is open to government, industry, academic, and research. The Force is an independent locally self-funded activity associated with the European Union IPv6 Task Force Phase 1.

**Headlines**

- Tim Chown has been awarded the IPv6 Forum Internet Pioneer Award for his work in promoting IPv6. "Tim has demonstrated leadership in the promotion of IPv6. Indeed, his work is being recognized by the IPv6 Forum as a pioneer in connecting the world to knowledge".

Home

- Objectives
- Activities
- Documents
- IPv6 in the UK
- Events
- Private Area

## Welcome to the Swiss IPv6 Taskforce

The Swiss IPv6 Task Force has been established to group all the different persons active in the IPv6 field in Switzerland and to leverage the work done in the EC IPv6 Task Force. The common goal is to identify the opportunities for the IPv6 technology and to encourage its deployment in Switzerland.



**SWISS IPv6 Task Force**

**The Luxembourg IPv6 Task Force**




Next meeting

Copyright © 2003. You're using IPv6! Your address is: 2001:800:40:244:220:40ff96b:441d.



IPv6 Task Force

# IPv6 Summit Switzerland 24. April 2003, 9.30–16.30 Uhr

Die Europäische Union arbeitet mit der EC IPv6 Task Fo

Press coverage

heise online

Meldung vom 17.04.2003 15:11

news

(IPv6-)Wunder dauern etwas länger

Mit einem "Dreijahres-Aktionsplan" will eine neugegründete IPv6-Taskforce dem Umstieg zum neuen

networkWorld GERMANY

NEWS PRINT EVENTS FORUM

Deutsche IPv6-Taskforce gegründet

Internet-Protokoll

Deutsche IPv6-Taskforce gegründet

10 June 2003 Updated: 00:12 GMT

**The Register** Biting the hand that feeds IT

Search The Register

IPv6 Task Force UK works on five-year plan

By John Leyden

10 June 2003 Updated: 14:30 GMT

force telecom

Press Release of April 24, 2003

Very Successful Start for the IPv6 Task Force France

The IPv6 Task Force France has met with solid success among industry, Internet and telecom operators, government, public universities. All these constituencies are keenly aware of the activities in the evolution of IP technologies.

Created in September 2002 at the initiative of 6WIND and supported by France and New Technologies, the IPv6 Task Force France is proactively involved in heightening awareness of opportunities linked to the development of IP network: the Internet Protocol, IPv6. The Task Force addresses all those interested in deployment of IPv6 networks and applications.

One of the primary objectives of the Task Force is to facilitate links among it

IP Task Force France

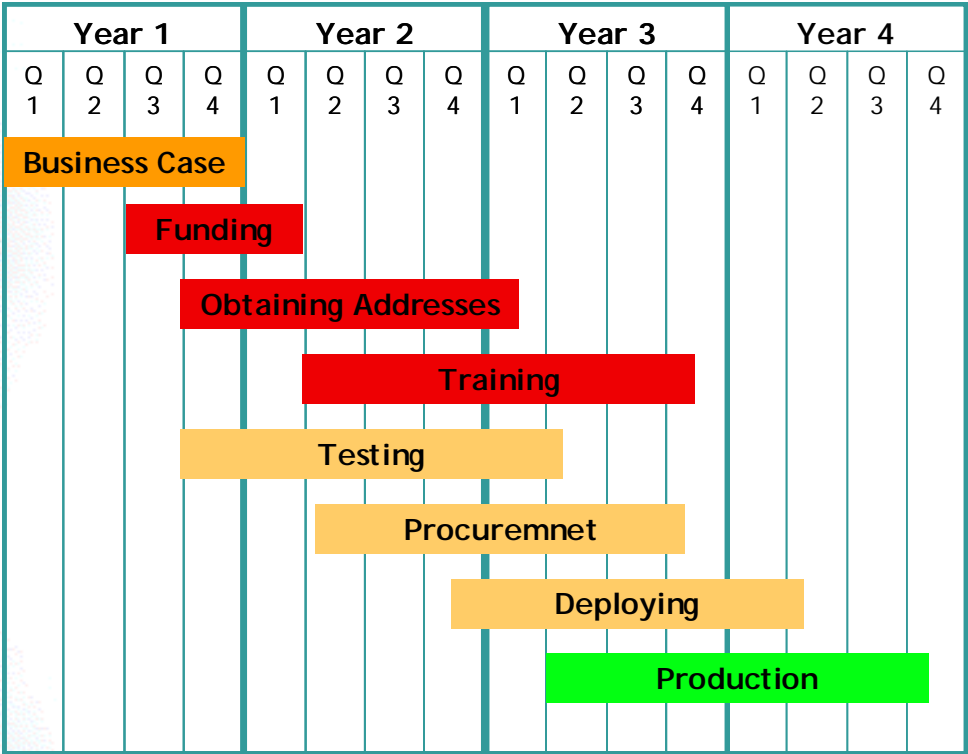
Communiqué de Presse  
Paris, le 24 avril 2003

UN BILAN TRÈS RÉUSSI POUR LA TASK FORCE IPv6 FRANCE

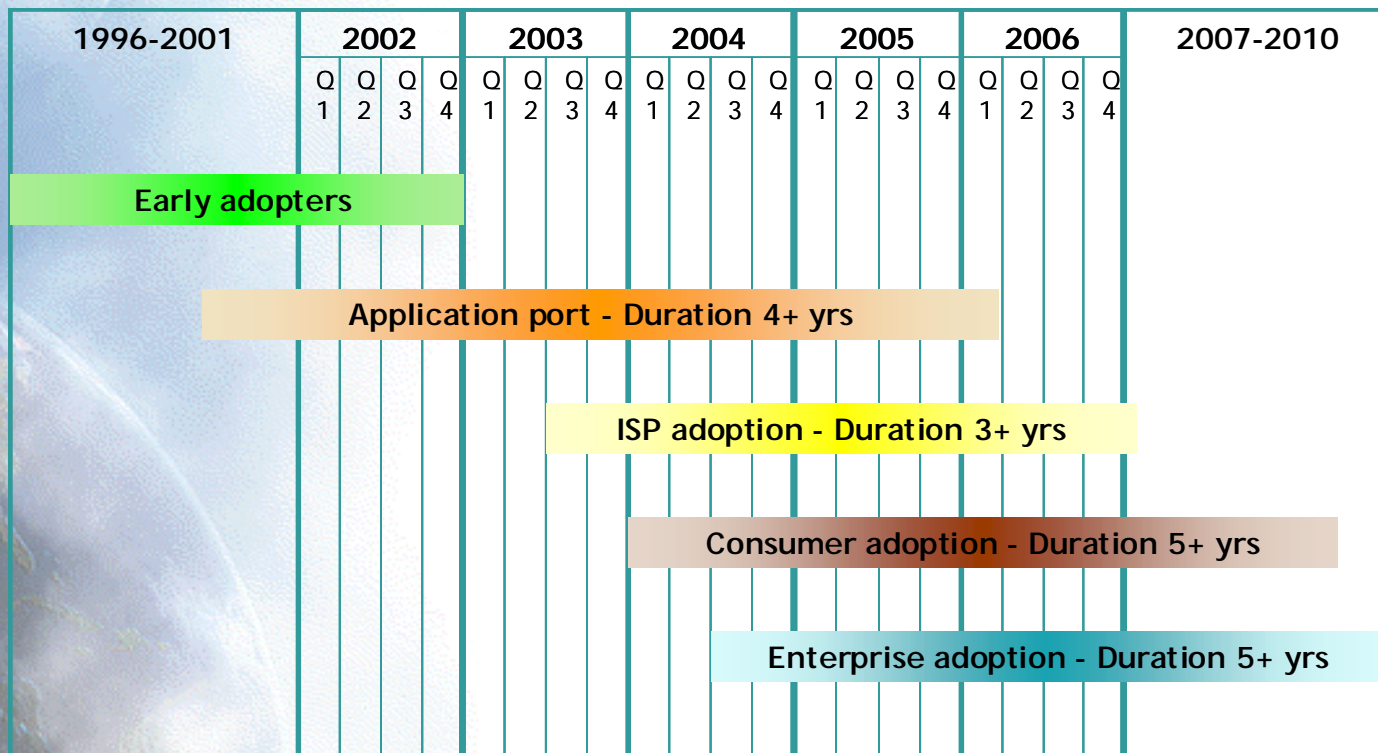
Paris, le 24 avril 2003 – La Task Force IPv6 France remporte un franc succès auprès des industriels, des opérateurs, des administrations, des associations et du monde de l'éducation et de la recherche, fortement sensibilisés aux enjeux que représente l'évolution des technologies IP dans leurs activités.

Créée en septembre 2002 avec le soutien du Ministère de la Recherche et des Nouvelles Technologies et à l'initiative de la société 6WIND, la Task Force IPv6 France s'est fixé pour objectif de susciter une véritable prise de conscience des opportunités liées à l'évolution des réseaux IP vers la nouvelle version du protocole Internet, IPv6. Elle s'adresse à tous ceux qui souhaitent travailler au déploiement de réseaux et d'applications IPv6.

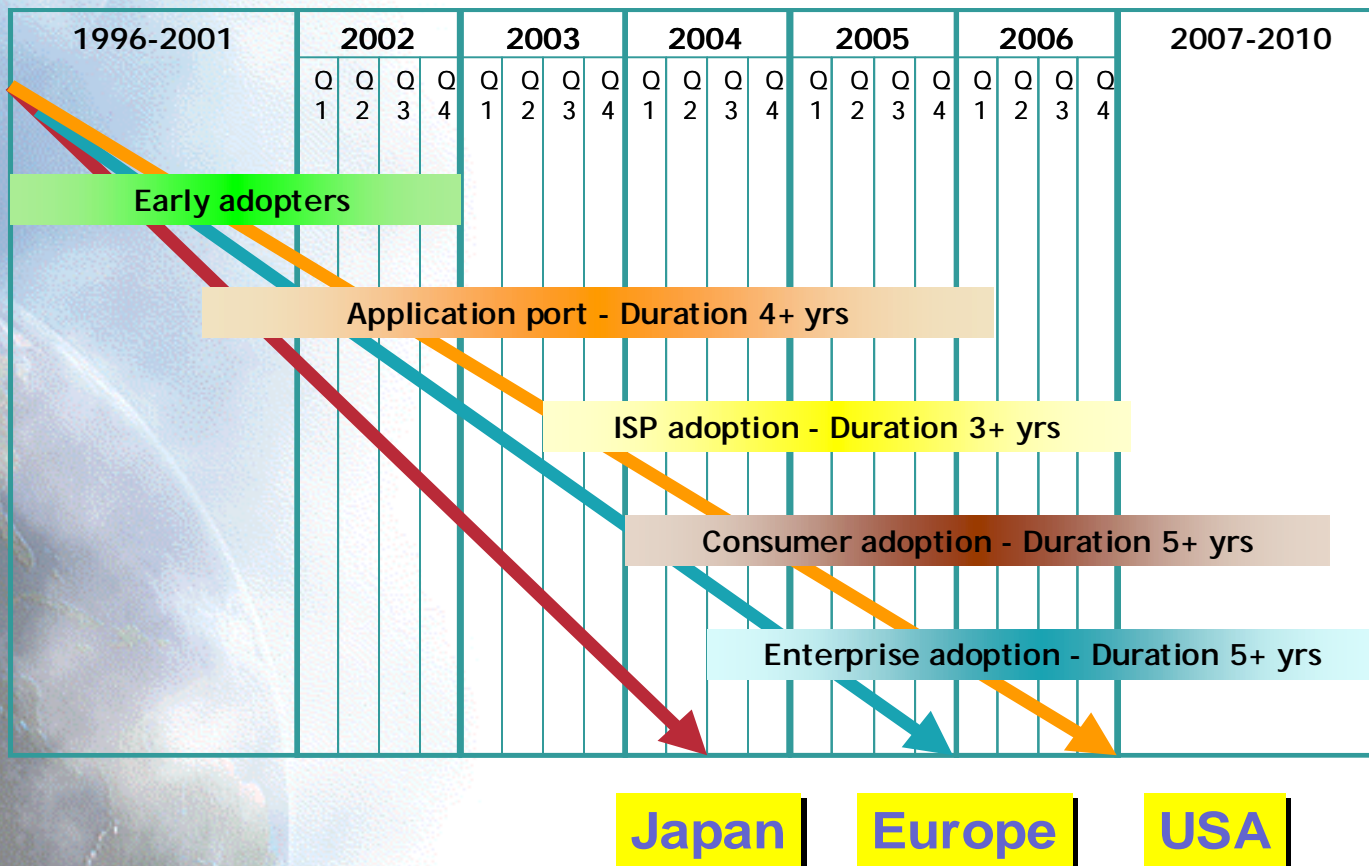
# Overview on expected Roll-Out



# IPv6 Strategic Roadmap for expected IPv6 Rollout



# Expected IPv6 Rollout: Japan, Europe, USA





# The China initiative

*As cooperation Partners*

Japan



Korea



India



Taiwan



*As mother organization*



*As cooperation Partners*



Europe



North America



Europe

Others IPv6 org.



# Description of coordination activities: The Kick-off Meeting 2003/4/4 (during Global IPv6 Summit 2003 in China)

- Meeting Members:

Latif Ladid (IPv6 Forum, Chair)

Patrick Cocquet (IPv6 Forum, vice-Chair)

Jun Murai (WIDE, President)

Hiroshi Esaki (WIDE, v6PC, board)

Robert Hinden (IETF IPng WG, co-Chair)

- Conclusion (APNIC, Director General)

- Kick-off a China IPv6 Council as a volunteer organization
- After consensus of IPv6 Forum board, start promotion in Madrid Summit

Liu Dong (BII)

Lei Zhenzhou (CATR, MII)

Lu Ricky Le (BII)

Hua Ning (BII)

Zhang Hongke (North Jiaotong Uni.)

Lai Xiaorong (Beijing Capital)



# International cooperation between China, Korea, Japan, the US and Europe. (Korean Press Clipping)

기획

## '당신은 준비됐는가?

6서막 코리아

전자신문 후원

IPv6? 차세대 인터넷 프로토콜인 IPv6의 활용을 해준 '글로벌IPv6서막' 코리아 것으로 서울 잠실 롯데호텔에서 열린다. 국제IPv6포럼이 주최하고 한국전자통신연구원(KETRI), 한국인터넷정보센터(KRNIC), 한국정보통신기술협회(TTA) 등이 후원하는 포럼과의 연계 아래 매년 주요 국가에

점이다.

IPv6 도입을 촉진할 응용 애플리케이션과 라우팅-멀티호밍(multi-homing)-전환(transition) 등 IPv6 관련 메커니즘 등이 소개되므로 IPv6를 처음 접하는 초보자나 IPv4-IPv6 전환기술에 관심있는 참가자들에게는 더욱이 좋은 학습 기회가 될 것이다.

그러나 뭐니뭐니 해도 이번 행사에서 절대 놓쳐서는 안될 핵심코너는 유비쿼터스 컴퓨팅·그리드·모바일 등 차세대 IT 기술의 융합과



라트프래드 의장

제프 노스

이성진 소장

리우동 대표

고슈케 이토 위원

백기식 의장

이성진 소장

리우동 대표

고슈케 이토 위원



**IPv4 Had Hard Time To be Adopted!**

**So, Why Should it be Different for IPv6?**

**IPv4**

**IPv6**

**IP design ( v1-3) 73-78**

**IPv6 defined in 92-95**

**IPv4 ready in 78**

**IPv6 ready in 98**

**IPv4 testing and promotion from 78-82**

**IPv6 Testing & promotion 98-05**

**IPv4 Deployment Jan 1, 83**

**IPv6 in 2006 widely accepted**

**US Congress approves use of NSFNET for commercial traffic 92**

**USG and US Military pursued OSI via NIST from 86-95**

**USG Return to IPv4 in 93**

**Reviewed by**  
**Vint Cerf**  
 **FORUM**

# v6 Roadman Scenarios

## Scenario 1

## Scenario 2

IPv6  
Deployment

Successful

Complete Failure

Address  
Transparency

Restored  
e-2-e

Recycling  
IP Addresses

Exhaustion  
NAT-over-NAT

IPsec

e-2-e works

Limited

Broken

FOG

Clears!

Noticeable  
Fog

Permanet  
Thick Fog

Issues

Intranet, Proxies  
& Firewalls  
may remain

Generalised  
use of  
NAPT, RSIP?

NATs between  
even ISPs

# IPv6 ROLL-OUT NETWORK

IPv6

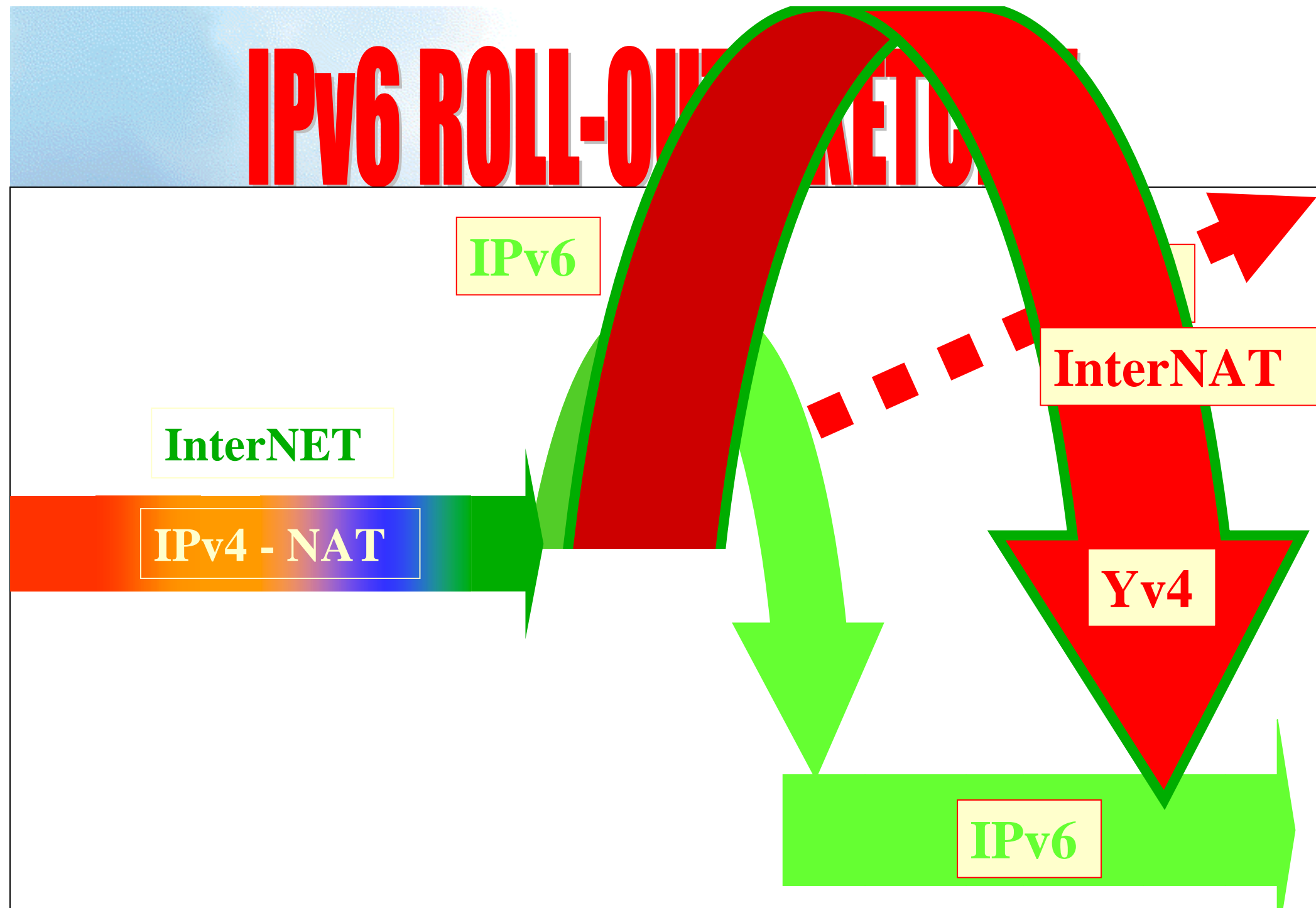
InterNET

IPv4 - NAT

InterNAT

Yv4

IPv6



# IPv6 Ready Initiative

- To avoid confusion in the mind of customers, a unique logo program has been defined.
- The IPv6 logo will give confidence to users that IPv6 is currently operational.



# *New IPv6 Initiative*

## *Global IPv6 Showcase*





# Promotion Of Applications the Appli-Contest 2003

**IPv6 Appli-Contest 2003**  
IPv6 Promotion Council

日本語 / ENGLISH

**What's New**

- The Purpose of the Contest
- Awards
- On Judgment, Publication and Awards Ceremony
- Rules for Application
- Others and Contact Information
- Registration form for application
- Cosponsor

**The Purpose of the Contest**

The IPv6 Promotion Council is holding a contest called "IPv6 Appli-Contest 2003" from February to July. The contest will award developers of applications and software which helps to create new possibilities in the Internet world.

The Internet has spawned application and software developers in unexpected places. It is estimated that IPv6, the next generation Internet protocol, will further enhance the possibilities of the Internet.

The contest will provide an environment for developers to communicate and influence each other. The contest will also be an opportunity to show that the next-generation Internet is expected to develop and expand as a global intelligence asset.

It is our intention that applicants' submissions will be evaluated by IPv6 users and initial developers. We hope this contest helps to inspire applicants to further promote their developments and refine their ideas.

The contest is a worldwide event and will promote intercommunication amongst participants in all countries.

Professor Jun Murai  
President of the IPv6 Promotion Council of Japan

**Host** IPv6 Promotion Council of Japan

**Supporter** Ministry of Public Management, Home Affairs, Posts and Telecommunications

**Cooperation** IPv6 TF in EU, NA, and others (North America IPv6 Task Force), IPv6 Forum India, IPv6 Forum Korea, and others.

[Privacy statement](#)

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<http://www.v6pc.jp/apc/en/concept.html>

**IPv6 Snippets**

**Ethernet shows IP the way to go**

Bibi Middelink, secretary of Ethernet, points out the advantages -

"Ethernet and TCP/IP were both awarded a P460 Axi during the session of 1973, the COMACD LASH Biforum at Xerox Parc and TCP/IP WAN Internet at Stanford."

"Ethernet has evolved from 2.94 Mbps over shared coaxial cable, to 100 Mbps over switched twisted pairs, to 1000bps over Fibre, to 10 Mbps over radio at 2.4 GHz, and beyond."

**IPv6 Appli Contest**

The IPv6 Promotion Council Japan has recently announced the start of the IPv6 Appli Contest and the initiation of the main IPv6 Implementation Category of IPv6 Application Contest.

The Council, with the help of many people from all over the world, considered the major award ceremony between Madrid (EU) and Tokyo over IPv6 activities.

The ceremony of Implementation Category will be held on 1st IPv6 Showcase at Network+Europe 2003 at Malindi on 2

[http://www.cordis.lu/ist/rn/news\\_jun\\_03.htm](http://www.cordis.lu/ist/rn/news_jun_03.htm)

**IPv6style**

For people who learn, build and use IPv6

**IPv6 Ready! Project**  
Going On Now

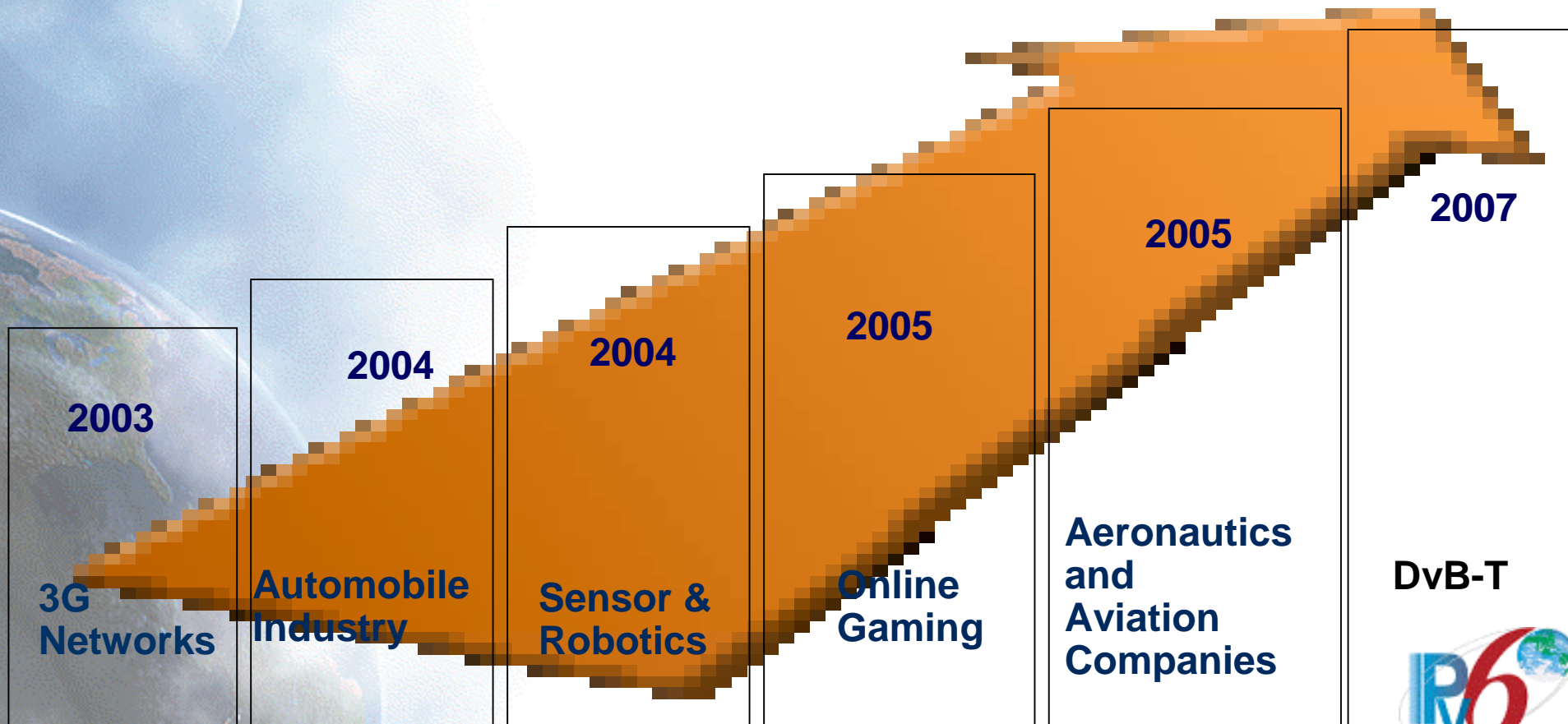
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**IPv6 Appli Contest 2003 Idea Award** (2003.5.20)

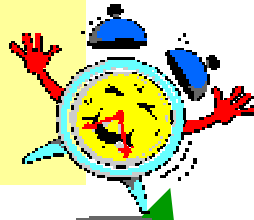
**Winners**

<http://www.ipv6style.jp/en/apps/20030520/index.shtml>

# Various Industry Sectors

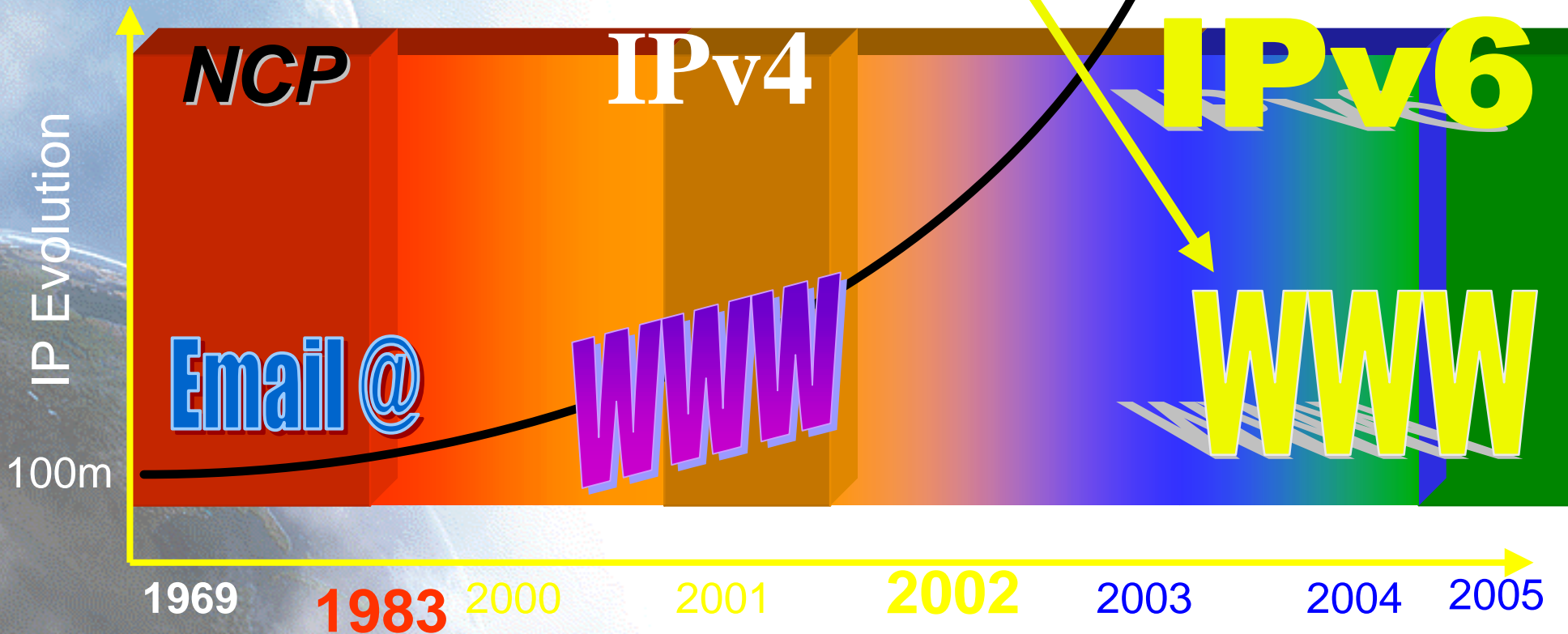


# The New Internet Roadmap



## Worldwide Wireless

1 billion +  
Connected Devices



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***THANK YOU***

