

IPv6 TF-SC

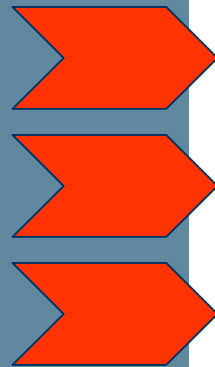
Crossing The Chasm



IPv6 TASK FORCE
—Steering Committee—



European Commission
IPv6 Task Force

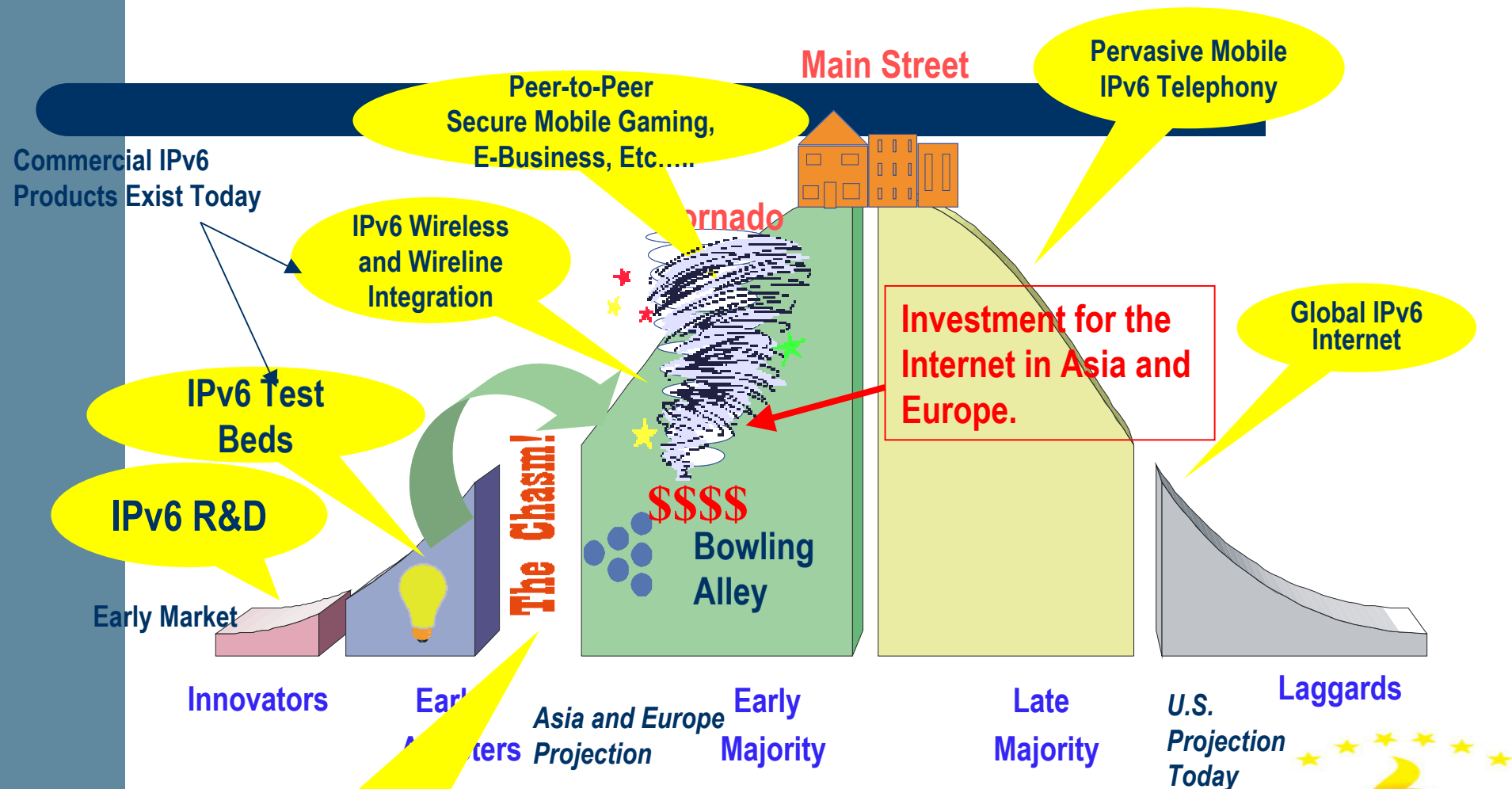


Achievements
Barriers
Next Tornado

October 1st, 2003

Milan

Crossing the Chasm



We are here today

Causing Major Worldwide Investments in IPv6 R&D + Infrastructure (1 B\$)

- EU ----- 165 M€ (90ME – EC)
- Japan ----- 100 M\$
- Korea ----- 140 M\$

Leadership In Research

Governments Are Our Most

Powerful Backers

The European IPv6 Task Force A Key & Instrumental Model

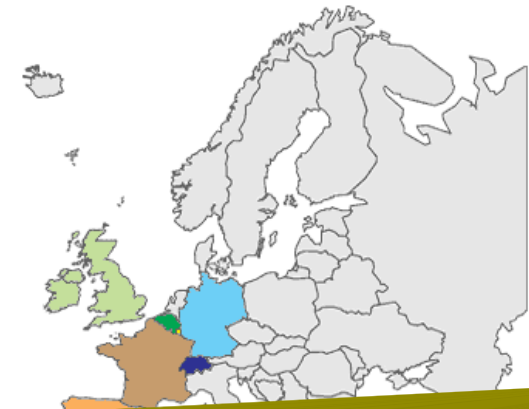
IPv6 TF in Europe



Erkki Liikanen

www.ec.IPv6Tf.org

"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.



Leadership In Awareness



Belgium



France



Germany



Luxembourg



Portugal



Spain



Switzerland



U.K.

The National IPv6 Task Forces



IPv6 TFF
Objectifs
Organisation

Bienvenu sur le site de l'IPv6 Task Force France (TFF)

Conference de presse
24 avril 2003

en savoir plus
[Communiqué de Presse IPv6 TFF](#)
[Présentation de Patrick Cocquet](#)

[Présentation de Dany Vandromme](#)
[Présentation de Tayeb Ben Meriem](#)

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 opérationnels et d'étendre leurs capacités pour prendre en compte des millions d'utilisateurs et davantage encore de « machines » communicantes. 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, un impact direct sur notre vie quotidienne.

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 deutschsprachigen Internet. Die Deutsche IPv6 Taskforce hat zum Ziel, die Einführung von IPv6 voranzutreiben.



Forum | Notícias | Eventos | Links

Bem vindo em IPv6 - 2001:800:40:2a44:220:e0ff:fe6b:441d

- IPv6 Task Force
- Missão
- Objetivos
- Historial
- Membros
- Contactos
- Documentos
- Gerais
- Técnicos
- RFCs
- Planos Endereçamento
- Educação
- Implementações
- Linux
- Windows
- Grupos Trabalho
- Mailing List



Capítulo Español del IPv6 Task Force

DOCUMENTOS

Welcome to the Belgian



Objectives

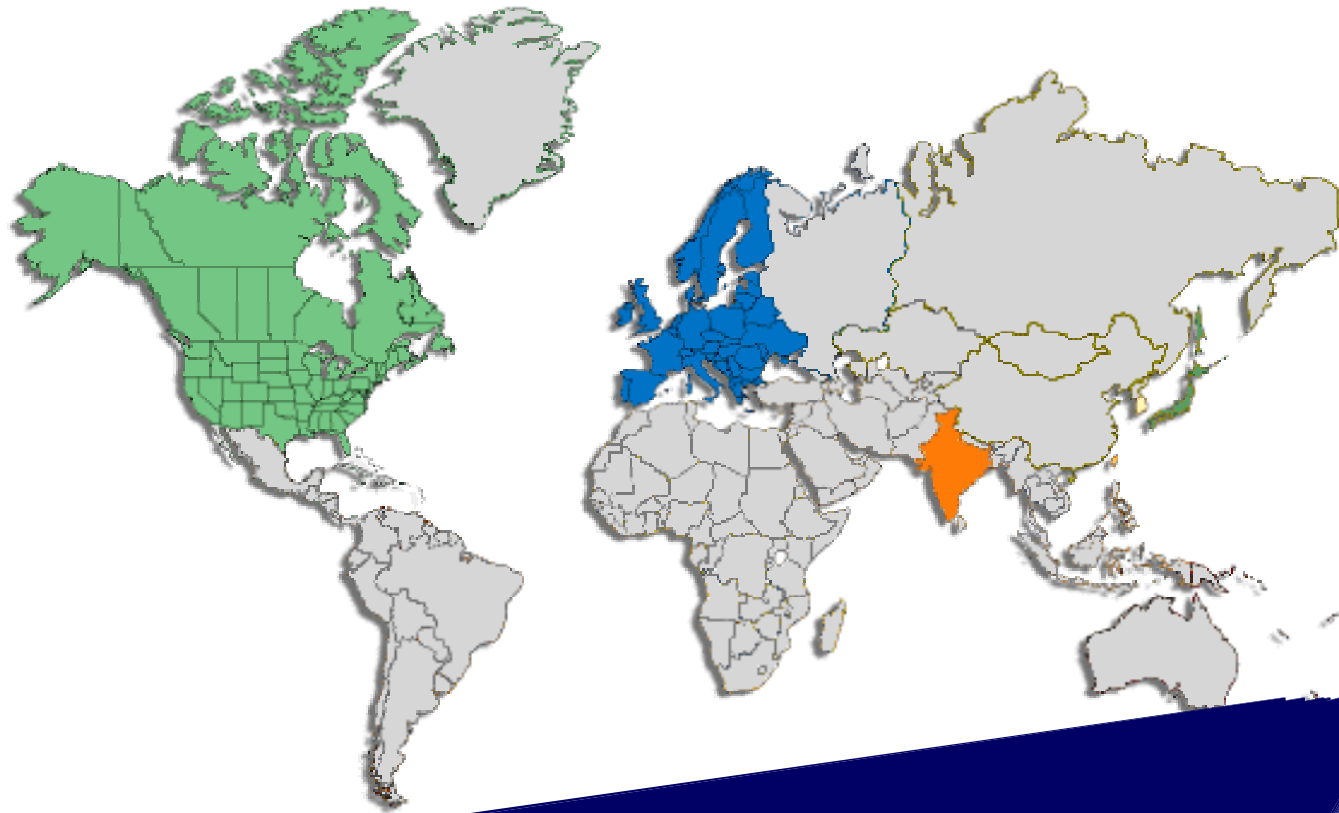
Private Area

... leadership in the promotion of IPv6. Indeed, Forum Award promotes - connecting the w

Next meeting

Congratulations ! You're using IPv6 ! Your address is 2001:800:40:2a44:220:e0ff:fe6b:441d.

Leadership On A Voluntary Basis



Leadership Worldwide

Non-Stop Education – 12 Summits

- Belgian Global IPv6 SUMMIT
- Second Russian Global IPv6 Summit
- Kuala Lumpur IPv6 Summit 2003
- US Global IPv6 SUMMIT
- Tokyo Global IPv6 SUMMIT
- Australia IPv6 Conference
- BANGALORE IPv6 SUMMIT

**Leadership in Education
Worldwide**

- Global IPv6 Summit
- US Global IPv6 Summit
- Global IPv6 Summit

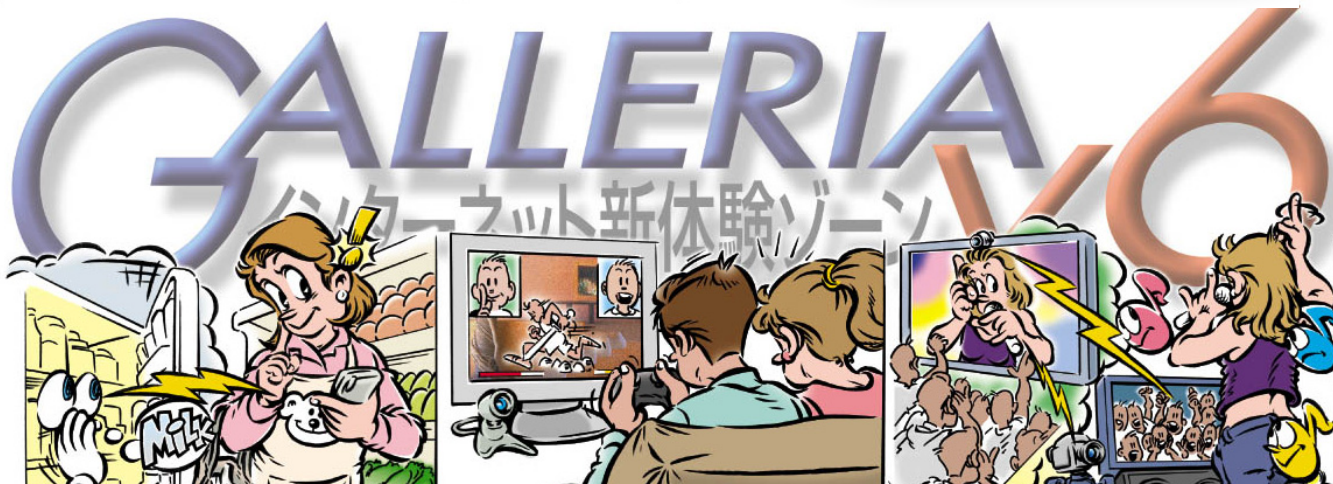
IPv6 Ready Logo Initiative

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



Unique in The IP History

Apps Promotion Activities



Bob Kahn



Conclusions at US IPv6 Summit Washington Oct 2000

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

Bob Metcalfe's Quote



- Ethernet & TCP/IP invented in Palo Alto in 1973
- CSMA/CD LAN Ethernet at Xerox Parc
- TCP/IP WAN Internet at Stanford.
- Ethernet has evolved
 - from 2.94Mbps over shared coaxial cable, to 100Mbps over switched twisted pairs
 - to 100Gbps over fiber
 - to 11Mbps over...

Pioneers Pressing Ahead

Quote - June 12, 2003 for IPv6 Summit in San Diego

Taking Down Barriers But Causing New Ones

- Infrastructure Investments
- 3G Disaster (Most visible IPv6 App)
- ISP ROI (Tough to demonstrate)
- No Visible & Clear Cut IPv6 Apps
- Showstoppers: CEO - CTO
- Industry W...

**Lack of A Big
Success Story**

Releasing The Hand Brakes!

Causing Some ISPs To Launch IPv6 Service

- Japan ★★ ★★ ★ 50% (NTT Com)
- EU ★ France Telecom
- Korea ★
- Taiwan
- China
- US

**Prime Resource
Not on Board**

The Japan Appli-Contest Initiative



ipub IPv6 Promotion Council

IPv6 Appli-Contest 2003

>> IPv6 Promotion Council

日本語 / ENGLISH

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 in all countries.

- 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
- Cooperation



GLOBAL

A set of recommendations on network and information security standards will be debated at an open meeting to be held on 13 June in Brussels. The

will be encouraged by the availability of a secure infrastructure. Standards Organisations have a key role to play to achieve

http://www.cordis.lu/ist/rn/news_jun_03

IPv6

IPv6 Snippets

Ethernet shows IP the way to

Bob Mc...

category will be held on

2003 at Makuhari on

(2003.5.20)

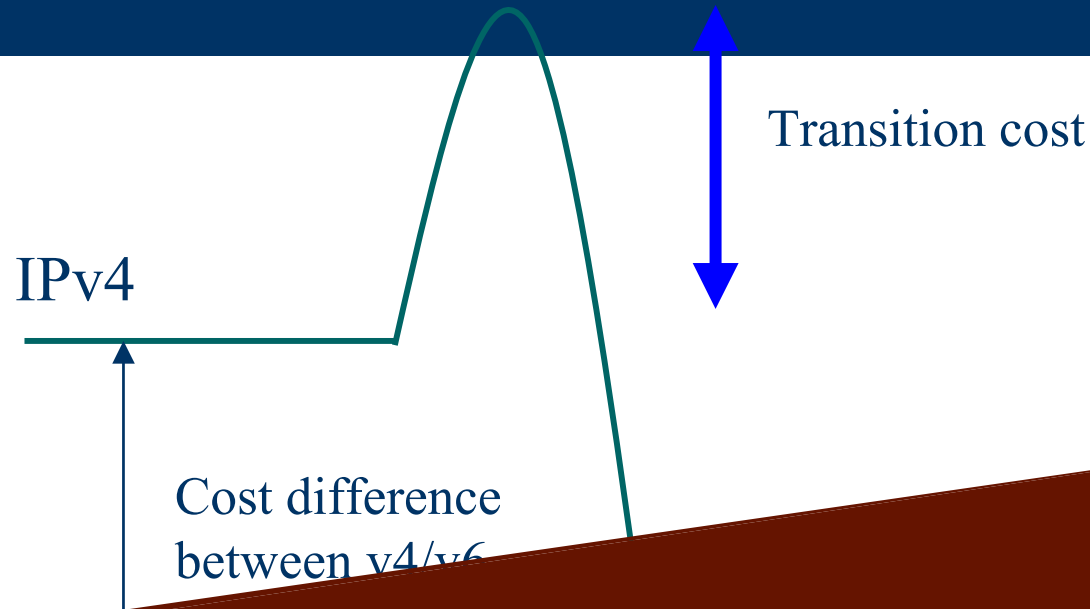
Project

PRINT

Frontline interviews

Lack of the Big Apps Vendors

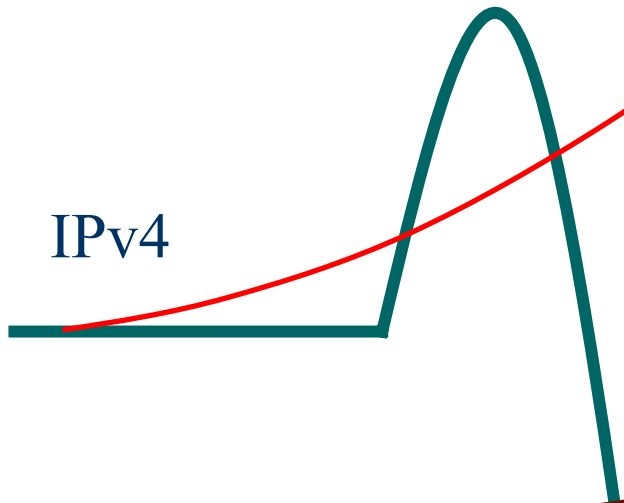
Showstopper IPv4-IPv6 transition cost



Explain This Empirically

Cost Comparison

Cost for keeping IPv4



- More shortage of address
-> no more allocation possible
at a certain point in the future
- R&D costs for NAT and related technologies
- Potential cost increase by preventing
P2P architecture

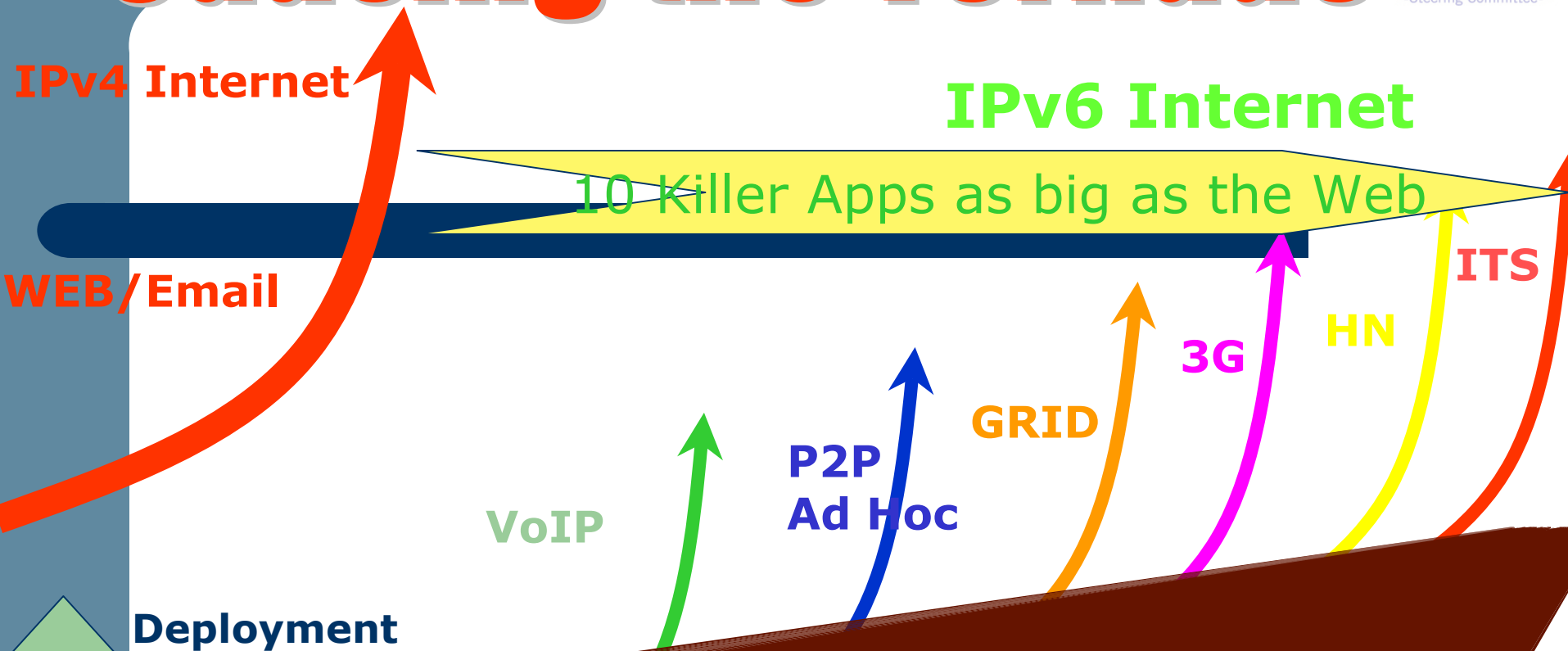
**Need A project
To Prove This**

Japan IPv6 Benchmarking Summary Europe

	Products	Expected Merits	Key Players
★ ★ ★ Sufficient Addresses = Everything on IPv6	Home appliance	More Function, Upgradable from net	SONY, Panasonic, Toshiba, Hitachi, etc.
	Camera, Sensors	Remote monitoring and operation	Fujisawa, Gifu, Sanyo, etc.
	ITS Medical, etc.	New information generated	Taxi company, etc.
★ Security (IPSec)	IPSec VPN	P2P Security, Fine grained Security, Dynamic VPN	NTTCom
★ P2P (No NAT)	Collaboration (Video conf, etc.), Server-less groupware	Light-weighted, Simple and low-cost design & operation	Yokogawa, NTTCom Ariston
★ Multicast	Contents Delivery	Efficient	
★ Multicast			
★ ITS	ITS		

No European Industry Leadership

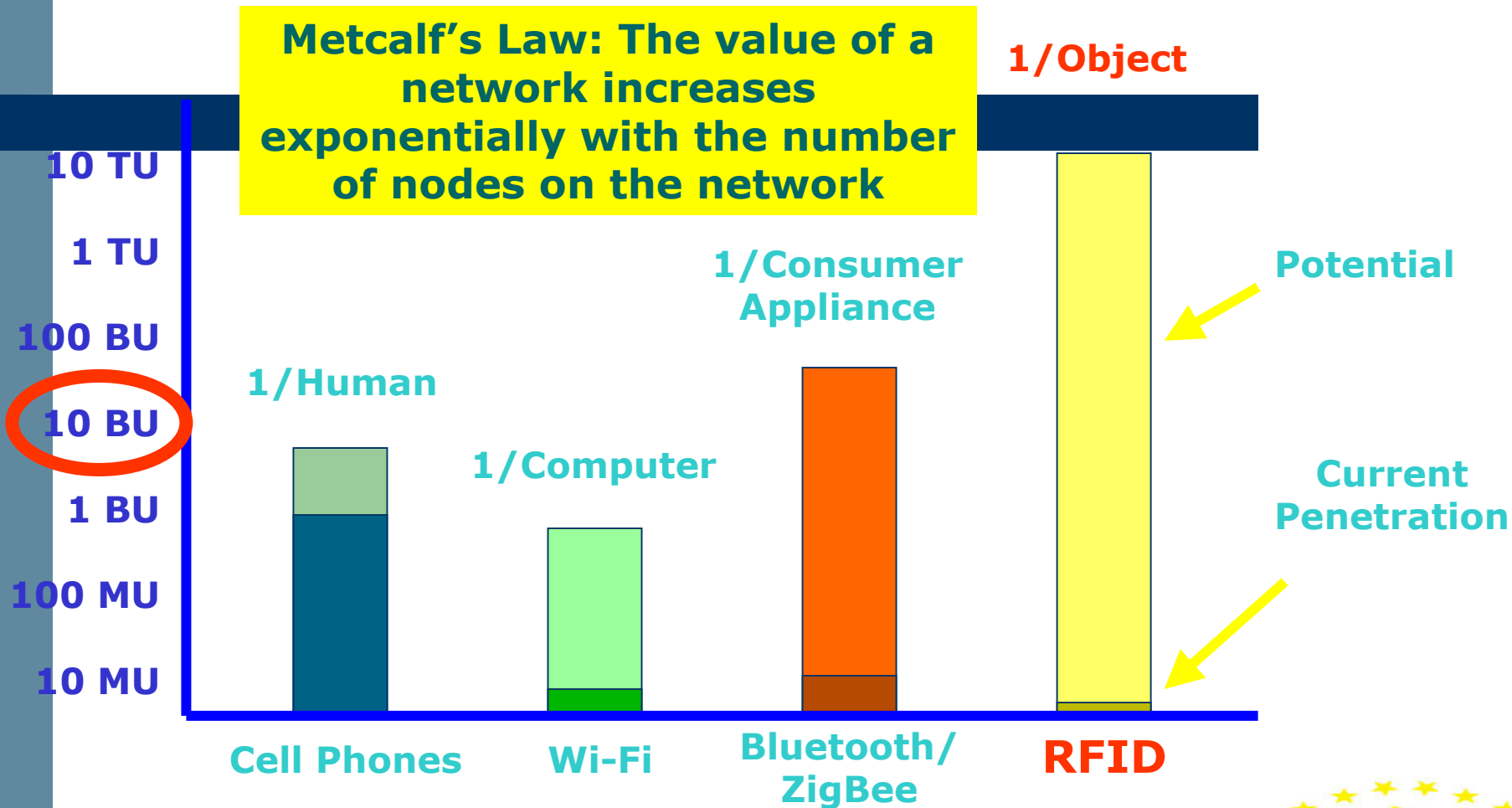
Causing the Tornado



**Don't Wait For Killer Apps!
Cause Them To Happen!**

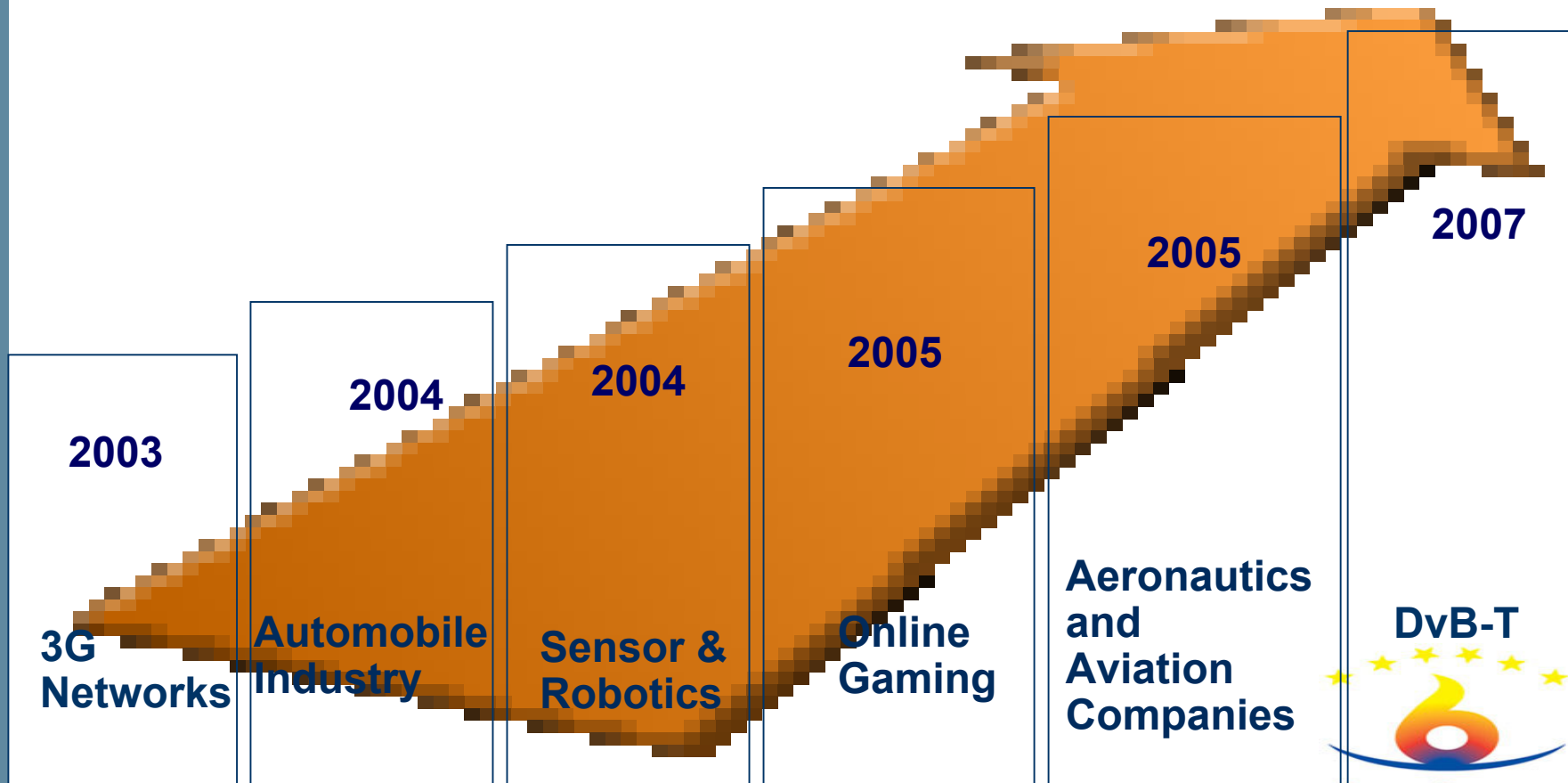
Conservative at 100 Billion/Year?

Metcalf's Law: The value of a network increases exponentially with the number of nodes on the network



Source: Deloitte & Touche, .. Gilder / Forbes Telecom Conference 2003

Major Industry Sectors



Crossing The Chasm

Prelim Recommendations:

- Work on Strategic Objectives - Policy, National TF Roadmaps, Int'l Coop
- IPv6 - strategic for eEurope 2005 (enabler of broadband and security,..)
- IPv6 - a vehicle for Ambient Intelligence and RF-ID.
- Continue the TF work

**Harness the Next Tough Steps
To Cross the Chasm!**