

IPv6 Global Summit Japan



Yokohama – 19-12-2002

FP6 over IPv6

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“The views expressed in this presentation are those of the author and do not necessarily reflect the views of the European Commission”



Contents



- **Introduction**
- **IPv6 in Framework Programme 5**
- **Framework Programme 6 overview**
- **FP6 over IPv6**
- **Conclusion**



Contents



- **Introduction**
- **IPv6 in Framework Programme 5**
- **Framework Programme 6 overview**
- **FP6 over IPv6**
- **Conclusion**



Introduction



- **RTD at European level provides a unique opportunity**
 - To aggregate fragmented effort in the context of the European Research Area (ERA)
 - Build consensus and provide a “global approach”
- **Framework Programme (e.g. FP5, FP6)**
- **Specific Programme**
 - **Strengthening the ERA**
 - **Priority 2: Information Society Technologies (IST)**
 - ...
 - **Structuring the ERA**
 - **Research Infrastructures**
 - ...



Vision statement



“Start creating the *ambient intelligence landscape* for seamless delivery of services and applications in Europe relying also upon *test-beds* and *open source software*, develop user- friendliness, and develop and converge the networking infrastructure in Europe to world-class”

George Orwell: 1984

URL: <ftp://ftp.cordis.lu/pub/ist/docs/istagscenarios2010.pdf>

URL: <ftp://ftp.cordis.lu/pub/ist/docs/istag-99-final.pdf>



Contents



- Introduction
- **IPv6 in Framework Programme 5**
- Framework Programme 6 overview
- FP6 over IPv6
- Conclusion



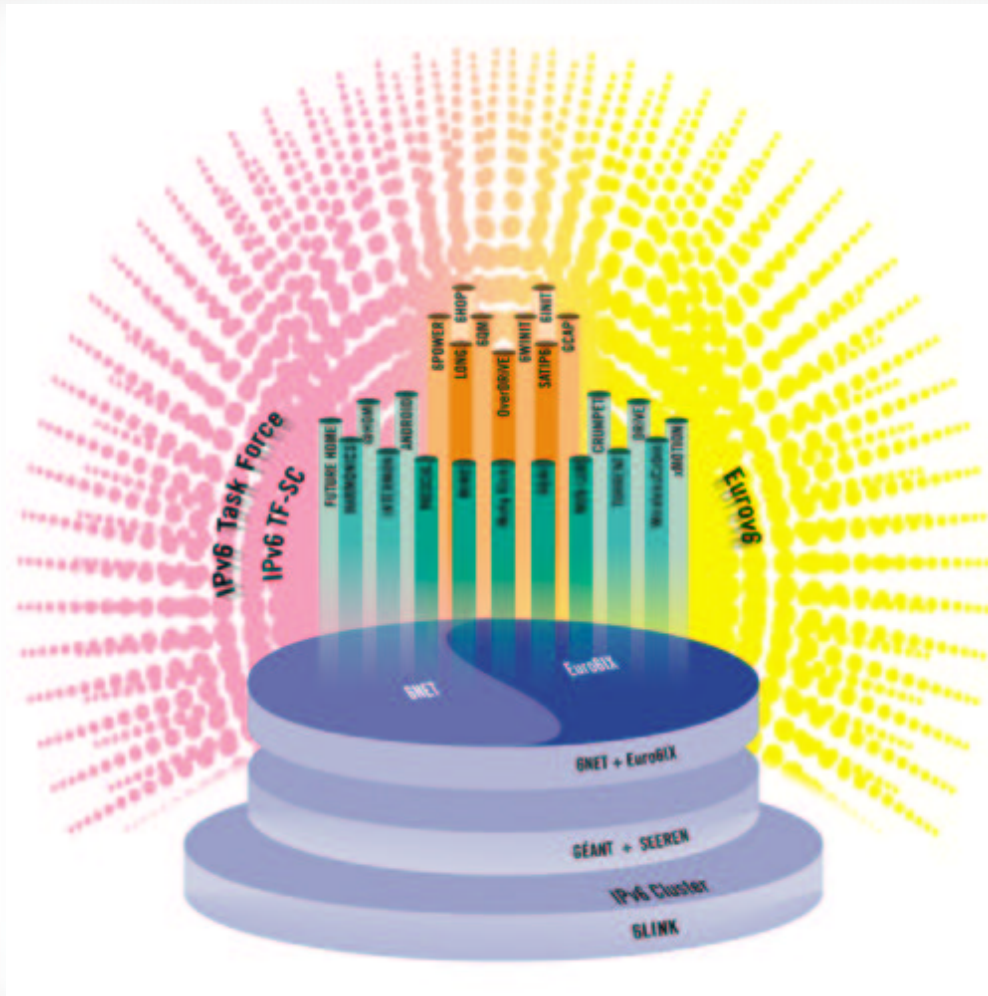
IPv6 projects financial overview



- **Interest at European level since 1999**
- **Global situation at the end of 2002:**
 - Total budget: 156 M€ (19.4 B¥)
 - Total EU funding: 85 M€ (10.5 B¥)
- **In particular, 2 experimentation platforms**
 - Euro6IX and 6NET
 - Total budget: 34 M€ (4.2 B¥) - 22% of global situation
 - Total EU funding: 18 M€ (2.2 B¥) - 21% of global situation

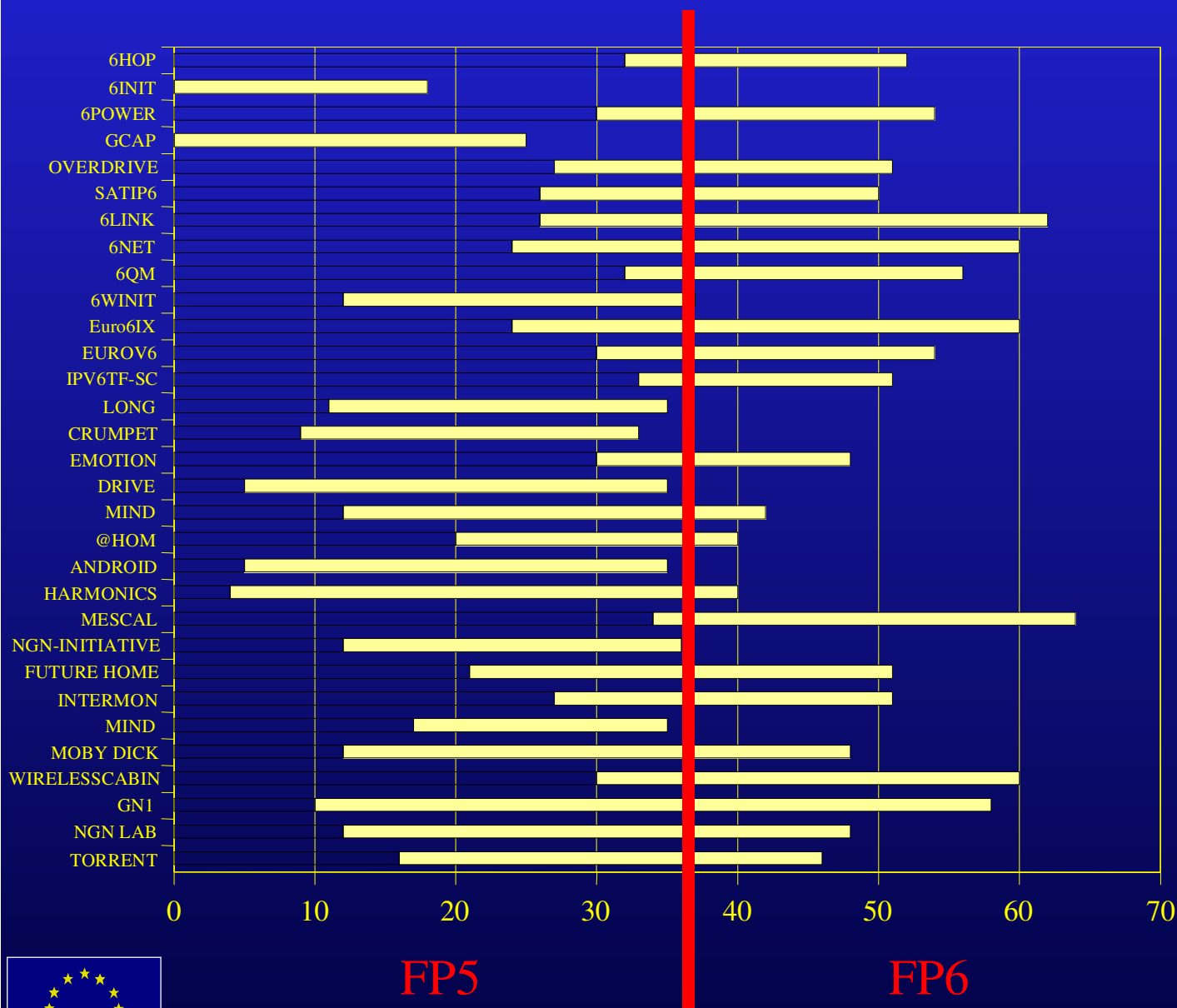


IPv6 in FP5



- **Deployment**
 - 6NET
 - Euro6IX
- **Promotion**
 - Eurov6
 - IPv6TF-SC
- **Clustering**
 - 6Link
- **Others**
 - more technical

Projects Life since 01-01-2000



Total cost:
nearly 156 M€

Total EU funding:
nearly 85 M€



FP5

FP6



Japan and FP5



- **Japan is already participating to FP5**
 - NTT DoCoMo: MIND
 - Hitachi: Scientific coordinator of 6QM
 - NEC: NGN Lab, MobyDick
 - NTT: 6NET
 - Sony: 6NET, @HOM, MIND
 - ...
- **Collaboration agreement signed between IPv6PC and Eurov6**
- **Participation to the European IPv6 Task Force**



6NET – Overview

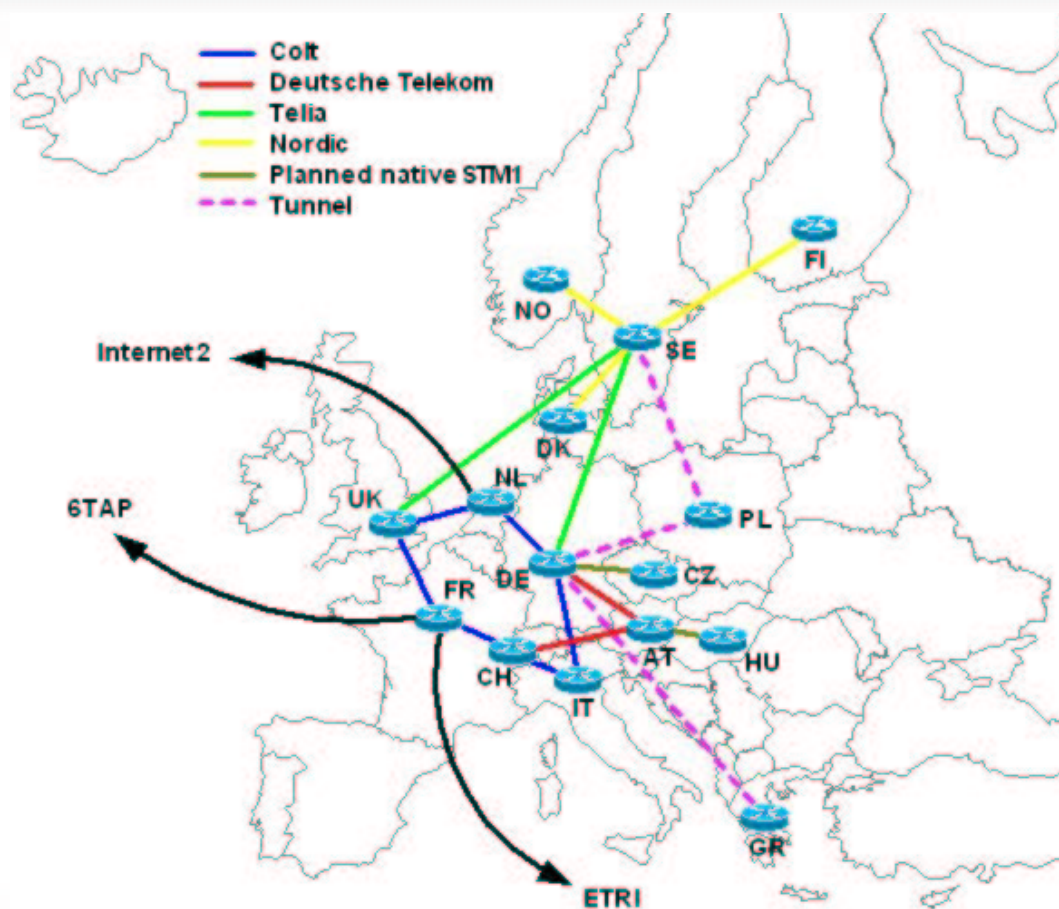


- **One of the largest IST project – 18.4 M€ (10.3 M€ EU funding)**
- **About 35 partners**
- **3 years, from 01-01-2002 to 31-12-2004**
- **About 1237 PM**



URL: <http://www.6net.org>





Euro6IX – Overview



- **One of the largest IST project – 15.5 M€ (7.8 M€ EU funding)**
- **17 partners**
- **3 years, from 01-01-2002 to 31-12-2004**
- **About 1300 PM**

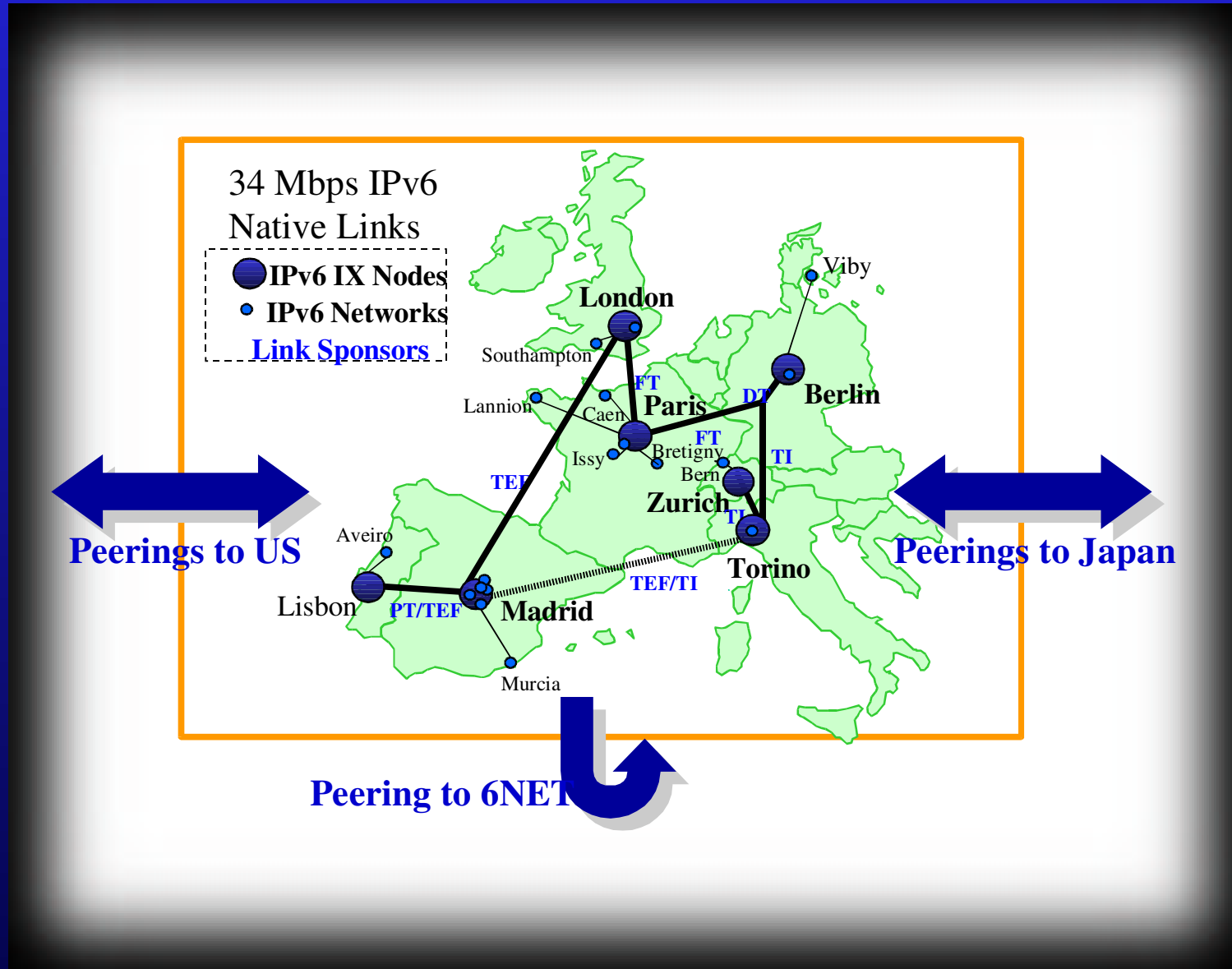


URL: <http://www.euro6ix.org>





Network Overview



Contents



- Introduction
- IPv6 in Framework Programme 5
- **Framework Programme 6 overview**
- FP6 over IPv6
- Conclusion



FP6 Overview



INTEGRATING EUROPEAN RESEARCH								
PRIORITY THEMATIC AREAS				ANTICIPATING S/T NEEDS				
Genomic and biotechnology for health	[Redacted]	Nanotechnologies, intelligent mat., new production processes	Aeronautics and space	Food safety and health risks	Sustainable development and global change	Citizens and governance in the knowledge society	Research for policy support	Frontier research, unexpected developments
							Specific SME activities	
							Specific international cooperation activities	
							JRC Activities	

STRUCTURING THE ERA			
Research and innovation	Human resources & mobility	[Redacted]	Science and society

STRENGTHENING THE FOUNDATIONS OF ERA	
Coordination of research activities	Development of research / innovation policies



Calls (2003): Integrating ERA (IST)



- **Call 1 open on 17-12-2002**
- **Call 1 closing on 24-04-2003**

- **Call 2 open on 17-06-2003**
- **Call 2 closing on 15-10-2003**

- **Research Networking testbeds is one of the Strategic Objectives in *Call 2*, allowing all instruments (IP, NoE, STREP, CA and SSA) to be used**



IST Call 1



- **Strategic objectives (without FET):**
 - Pushing the limits of CMOS, preparing for post-CMOS
 - Micro and nano systems
 - Broadband Access for All Broadband for all
 - Mobile and wireless systems beyond 3G
 - Towards a global dependability and security framework
 - Multimodal Interfaces
 - Semantic-based knowledge systems
 - Networked audio-visual systems and home platforms
 - Networked organisations, businesses and governments
 - E Safety of road and air transport
 - eHealth
 - Technology-enhanced learning and access to cultural heritage
 - Products and Services engineering 2010
 - General accompanying actions



IST Call 2



- **Strategic objectives (without FET):**
 - Advanced displays
 - Optical, opto-electronic, photonic functional components
 - Embedded systems
 - Open development platforms for software and services
 - Cognitive systems
 - Applications and Services for the Mobile User and worker
 - Cross-media content for leisure and entertainment
 - GRID-based Systems and for solving complex problems
 - Improving Risk management
 - eInclusion
 - Services and Product engineering 2010
 - **Research Networking test-beds**
 - General accompanying actions



Calls (2003): Structuring the ERA



- **GRID:**

- Open on 17-12-2002
- Deadline on 06-05-2003
- Starting late 2003
- Instruments: I3, CA, SSA

- **GEANT:**

- Open on 06-05-2003
- Deadline on 02-09-2003
- Starting late 2004
- Instruments: I3



FP6: Further links



http://europa.eu.int/comm/research/fp6/index_en.html
http://europa.eu.int/comm/research/fp6/documents_en.html
http://europa.eu.int/comm/research/fp6/infrastructures_en.html
<http://www.cordis.lu>
[http:// www.cordis.lu/ist](http://www.cordis.lu/ist)
[http:// www.cordis.lu/ist/fp6/fp6.htm](http://www.cordis.lu/ist/fp6/fp6.htm)
[http:// www.cordis.lu/rtd2002](http://www.cordis.lu/rtd2002)

IST HelpDesk

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Contents



- Introduction
- IPv6 in Framework Programme 5
- Framework Programme 6 overview
- **FP6 over IPv6**
- Conclusion



FP6 over IPv6



- **Deployment of the core protocol: Addressed in FP5**
- **R&D effort still needed about:**
 - Mobility
 - Quality of Service
 - Security
 - ...
- **Applications & services to be much deeper addressed:**
 - GRID
 - Health care
 - e-commerce
 - e-government
 - ...



Contents



- **Introduction**
- **IPv6 in Framework Programme 5**
- **Framework Programme 6 overview**
- **FP6 over IPv6**
- **Conclusion**



Conclusion



- **IPv6 is a key enabler technology for a large spectrum of applications and services (ambient intelligence)**
- **IPv6 is a corner stone for *e*Europe and ERA**

- **Collaborations EU-Japan are welcome**
 - With Research and industrial entities
 - In FP5 and in FP6
 - Common demonstrations
 - ...





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