

# Some Internet History

And what happened before

Rob Blokzijl – network user

# History of RIPE

- Started in May 1989
- First Meeting:
  - 14 participants
  - Half day
- Protocol Wars:
  - OSI is good
    - Invented by the phone companies
  - TCP/IP is bad
    - Not invented by the phone companies

# Oh OSI, Oh OSI

(to the tune of O Tannenbaum)

Oh OSI, oh OSI,  
Your rules are always changing  
Oh OSI, oh OSI,  
Your rules are always changing

No matter where I turn to look  
There comes another coloured  
book!

Oh OSI, oh OSI,  
With variation, sagging!

Oh OSI, oh OSI,  
The source of my frustration!  
Oh OSI, oh OSI,  
The source of my frustration!

Vint Cerf

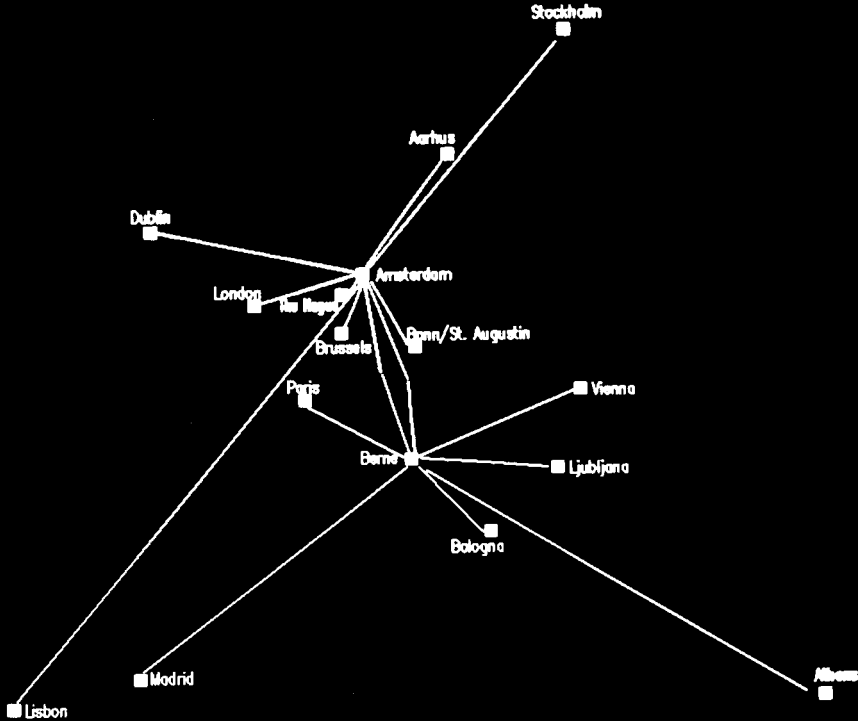
December 1985

# Horst Huenke, CEC DGXIII

**"OSI has a constant property  
Which is to be around the  
corner"**

Brussels, 28 February 1989

no alarms



## Europeans ridicule slow X.25 net and tout TCP/IP over OSI

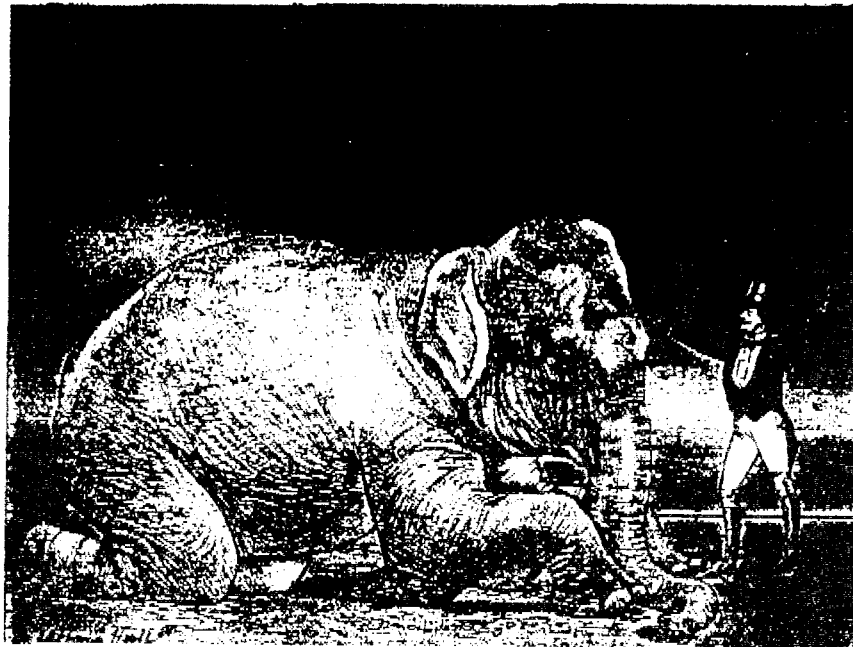
Users to PTTs: We won't crawl at 64 kbit/s

By Peter Heywood

Mix the practical needs of some users with government efforts to promote OSI and what do you get? In the case of Europe's research community, the answer could be a white elephant.

That's the view of some of the heavier computer network users among European researchers. They say they are about to be blessed with a white elephant in the form of a backbone network that will link national X.25 networks, including private research networks and some public networks.

Called the International X.25 Interconnect (IXI), the backbone answers some of the researchers' criticisms of the slow speed and limited functionality of the gateways between Europe's public X.25 (see "The PTTs push for a common X.25 gateway," ENR 1/11/88 p. 10).





... and you, how many packets on your Net?

Six, last week

Lucky you are

Yes... that was my test programme

JOINT Network CENTRE

For the Observation of X.25 Packets

F. Fluckiger

2-PAK

IP

WOW®

FRESH

SUGAR FREE WITH XYLITOL

CARBAMIDE



DENTAL CHEWING GUM

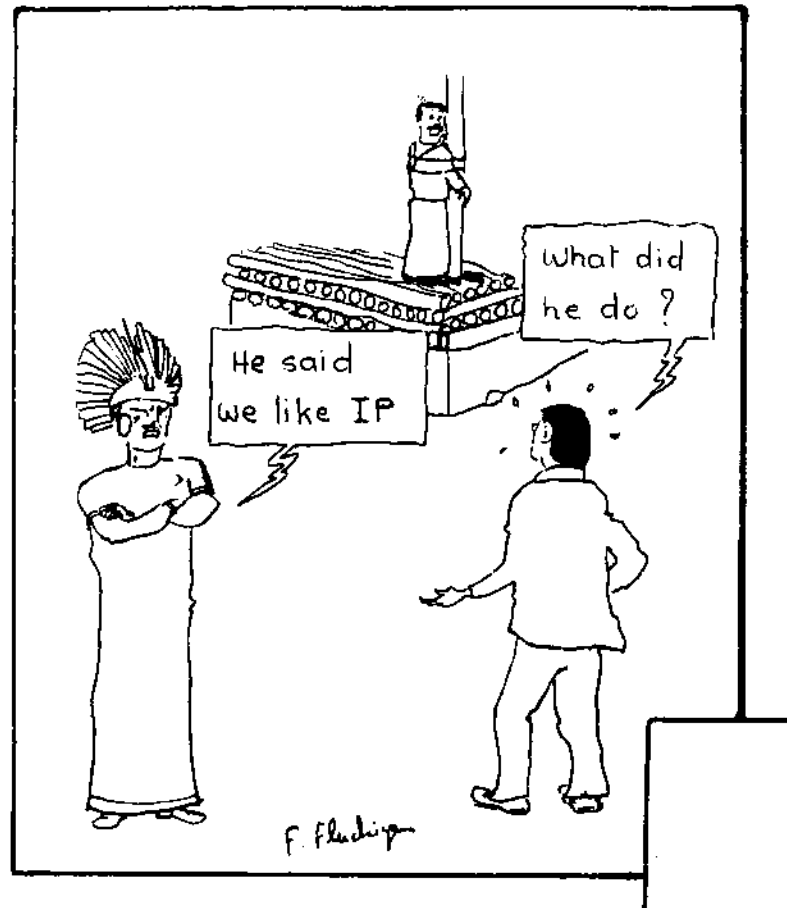


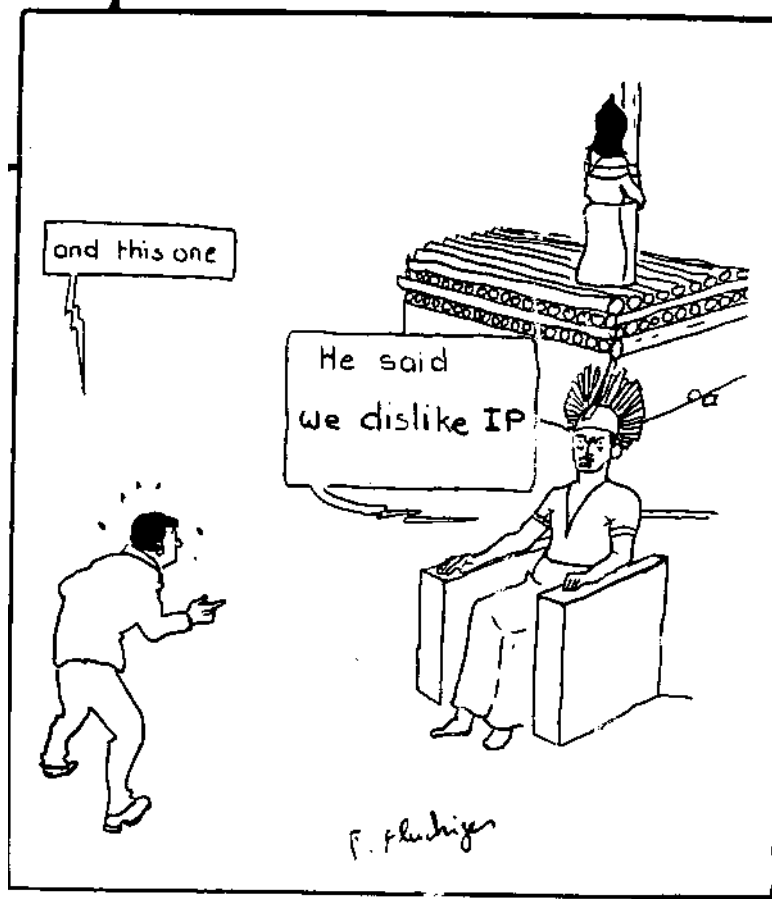
# Horst Huenke, CEC DGXIII

"If we ignore RIPE - we ignore the 'real' requirements; if we accept RIPE we sin against the holy principles of standardisation."

Blois, 14-15 May 1991

# Jokes ...



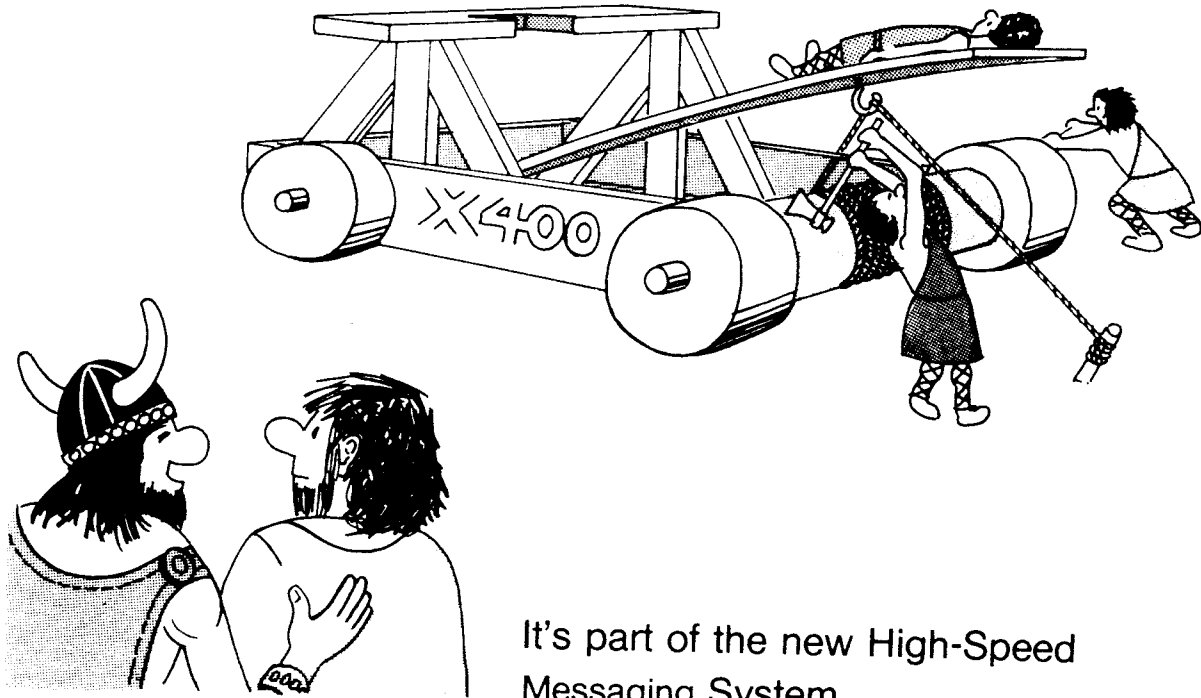


# Arne Moi, a citizen of Norway

"On TCP/IP

From a dumb end user point of view, like myself, it stinks to high heaven. On the other hand, it seems to work"

Oslo, 28 January 1992



It's part of the new High-Speed Messaging System

DNS host count

M.Terpstra

RIPE DNS host count as of October 2, 1990

```
=====
```

Country	Hosts	2nd level domains
at	566	2
be	2	0
ch	5312	8
de	3384	28
dk	813	30
es	3	0
fi	3468	30
fr	3102	50
gr	103	7
ie	4	0
il	991	1
is	14	1
it	526	10
nl	3077	18
no	3949	36
pt	2	0
se	6112	34
uk	294	3
yu	2	0
-----		-----
	31724	258

```
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# Arne Moi, a citizen of Norway

**"LESSON NUMBER ONE: Never let the prophets run a project because they have the answer instead of asking what must be done in order to reach the target."**

# Arne Moi, a citizen of Norway

"Part of the success of TCP/IP on a pan-European scale seems to be that there are no regulations on it! It has so far been outside the realm of the PTTs and the users themselves have had to manage it."



# What was this all about?

- **OSI**
- **COSINE**
- **IXI**
- **RARE**
- **EMPB**
- **CPG**
- **EUREKA**
- **And many, many more**

# Horst Huenke, CEC DGXIII

" [Acronyms] is an area where we in Europe have profound experience. Our acronym technology is leading the world"

# Meanwhile, back on the farm...

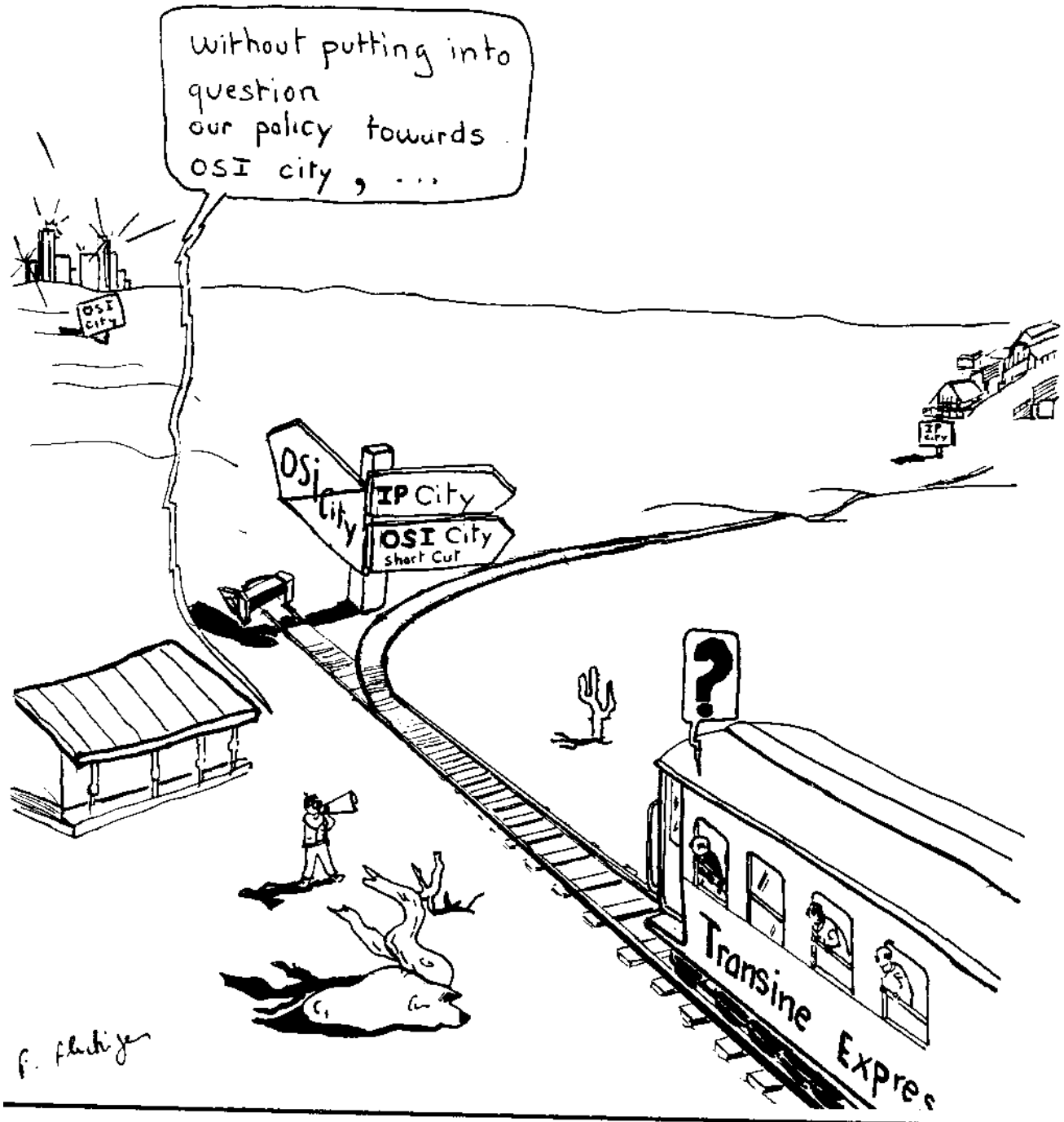
- DECnet phase IV
- DECnet phase V
- SNA
- EARN/BITnet
- Coloured Books
- CERNet
- Internet TCP/IP
- X.25

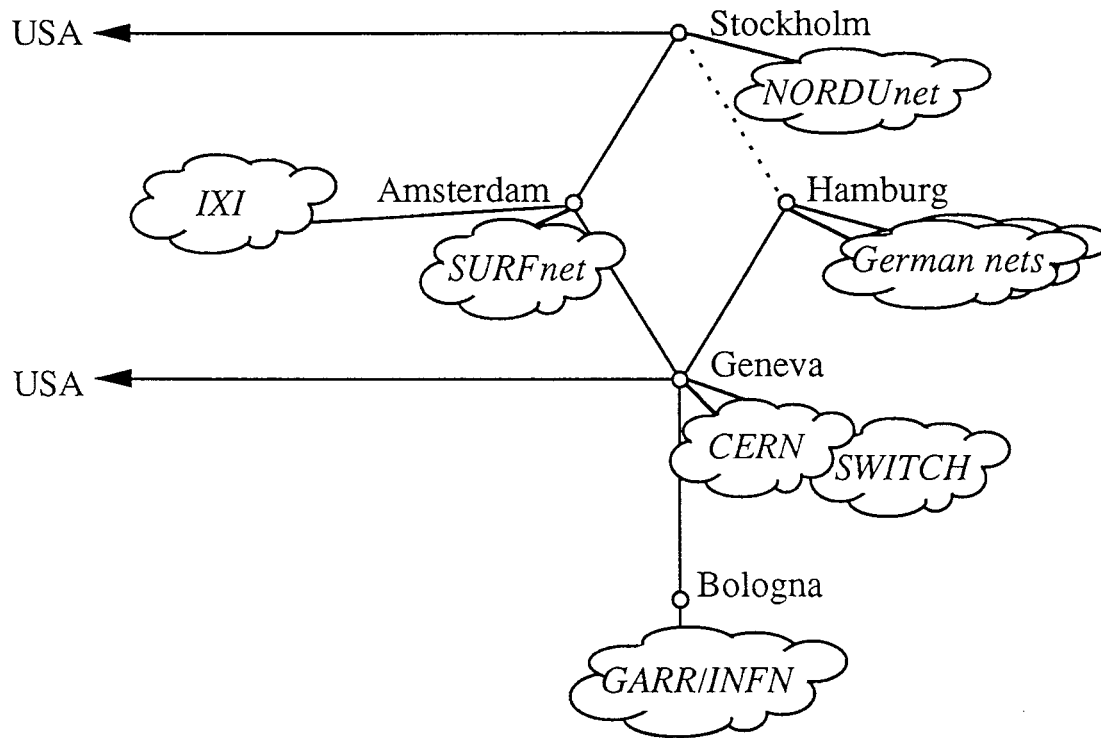
# DECnet Phase IV

- **Global, private network**
  - Particle Physics Europe, USA
  - NASA
  - ESA
- **16 Bit Address**
  - 6 Bit Area Address
  - 10 Bit Host Address
- **Area Addresses**
  - 48 Global Aereas
  - 16 Local Aereas

# DECNET IV Address Policy

- **Gang of Four**
  - HEP Europe
  - HEP USA
  - ESA
  - NASA
- **Guiding Principle:**
  - “Democratic dictatorship”  
(Enzo Valente)





The interim "Ebony 92 socket" is shown in figure 3.

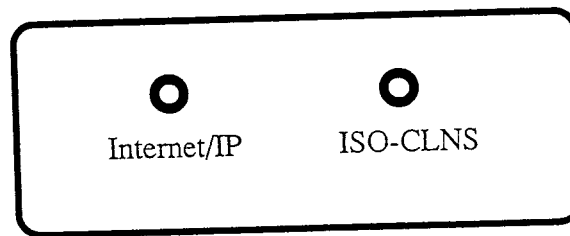


Figure 3: The 'Ebony 92 Socket'



# Internet according to BT

## "Domain Name System

The Domain Name System or DNS is the method used to 'name' your computer or its associated host, by giving it a unique IP address. It is also the system used to to translate unfriendly names to user-friendly numbers."

Internet Access Services from BT

June 1994

# Acknowledgements

- Horst Huenke
  - Arne Moi
  - Enzo Valente
  - Francois Flueckiger
  - Kees Neggens
- 
- And countless others

*V - Z*

(Thank you for your) **V**aluable Contribution to the Discussion:

pointing out to someone he is talking nonsense

**W**illy Black Day:

a UK standard consultancy rate