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April 1999 Topology



- 155 Mbps
- 34/45 Mbps
- 10 Mbps
- - - Planned during 1999

# Evolution of Pan-European Research Networking

Date

1991

1993

1996

1997

1998

Speed

64 KBps

2 MBps

4 x 2 MBps

34 MBps

155 MBps

# Pan-European Research Network Procurement Summary

- **16 Proposals**
- **87 Offers**
  - **45 Multiple Connections**
  - **42 Links**

# Pan-European Pricing

- **Three Cost Groups**
  - **GP1 :- Switzerland, Germany, France, Great Britain, Netherlands, Sweden**
  - **GP2 :- Belgium, Spain, Italy, Luxembourg, Austria**
  - **GP3 :- Czech Republic, Greece, Hungary, Slovenia**
- **Portugal**

# **Pan-European Research Network Price Evolution**

	<b>Average Price</b>	<b>Max Capacity</b>
<b>1996</b> <b>EuropaNET</b>	<b>200</b> <b>KECU / Mbt/ yr</b>	<b>2 MBps</b>
<b>1997</b> <b>TEN -34</b>	<b>150</b> <b>KECU / Mbt/ yr</b>	<b>34 MBps</b>
<b>1998</b> <b>QUANTUM</b>	<b>30</b> <b>KECU / Mbt/ yr</b>	<b>155 MBps</b>

## Summary of Tender Offers

<b>Speed MBp/s</b>	<b>155</b>	<b>45</b>	<b>34</b>	<b>10</b>
<b>Cost Group A</b>	14.7	18.4	22.5	28.4
<b>Cost Group B</b>	34.3	54.1	-	-
<b>Cost Group C</b>	-	-	59.82	-
<b>Cost Portugal</b>	-	-	176.6	-

**All costs are in K Euros/Mbit/Year**

# Pan-European Pricing

	155 MBps	45 MBps	34 MBps
Group A	24 KECU	■■■	■■■
Group B	35 KECU	55 KECU	■■■
Group C	■■■	■■■	60 KECU

# TEN-155 Economics

- **Annualised cost - 44 MECU**
- **3 year Supply Contracts with Competitive Price Clauses**

# The New Challenges

- **Local Loops**
- **Internet Settlements**
- **Cost Based Pricing**