

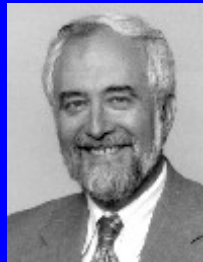
# The Future of the Internet

**Supercomputing'9**

**4**

**Washington DC USA**

**18 Nov1994**



**Anthony M.**

**Rutkowski**

**Executive Director**

**Internet Society**

**Reston VA USA**

Copyright 1994 A.M.  
Rutkowski

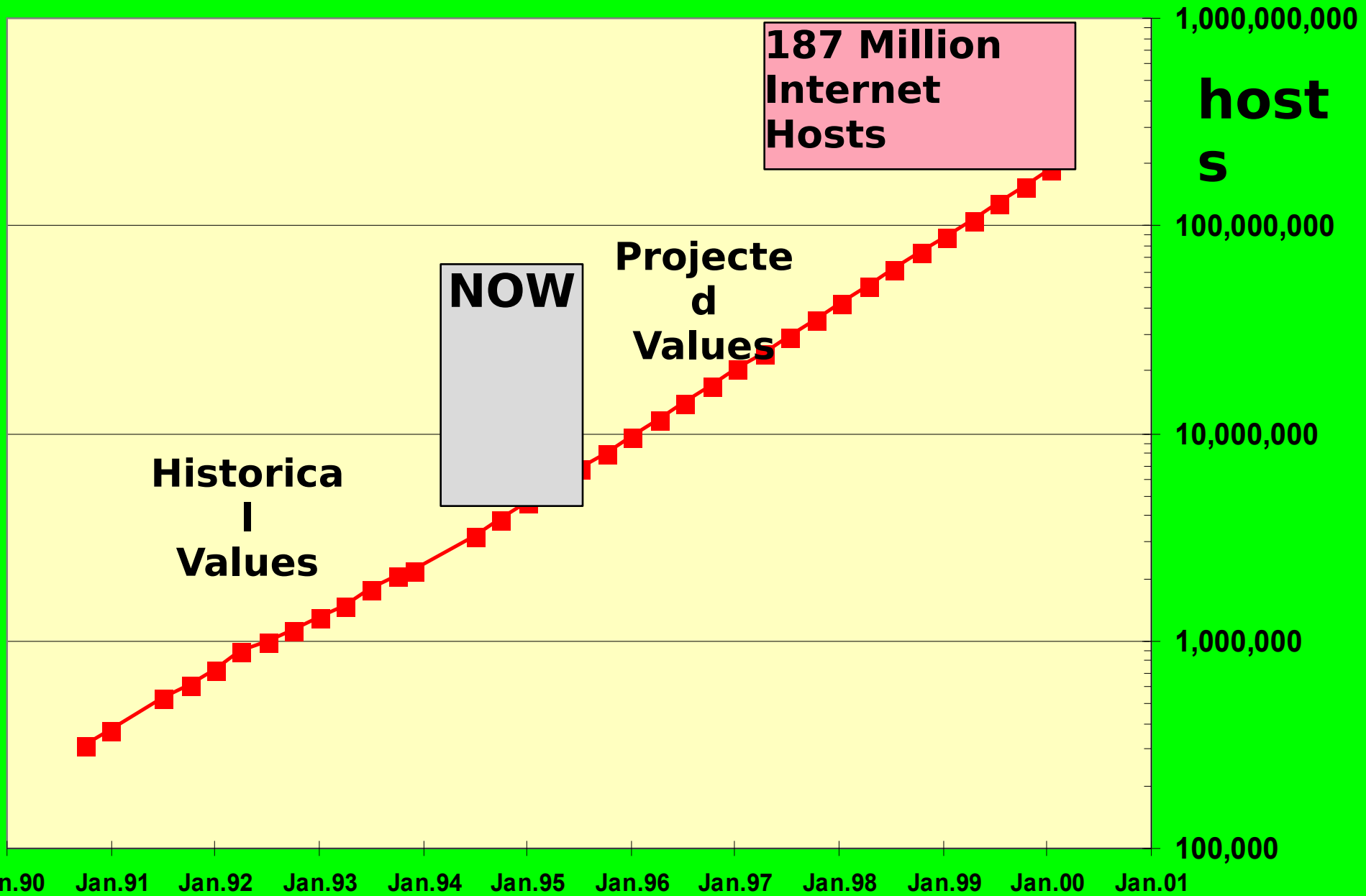
# Vision of the Internet

**It is not possible to predict anything in the year 2020**

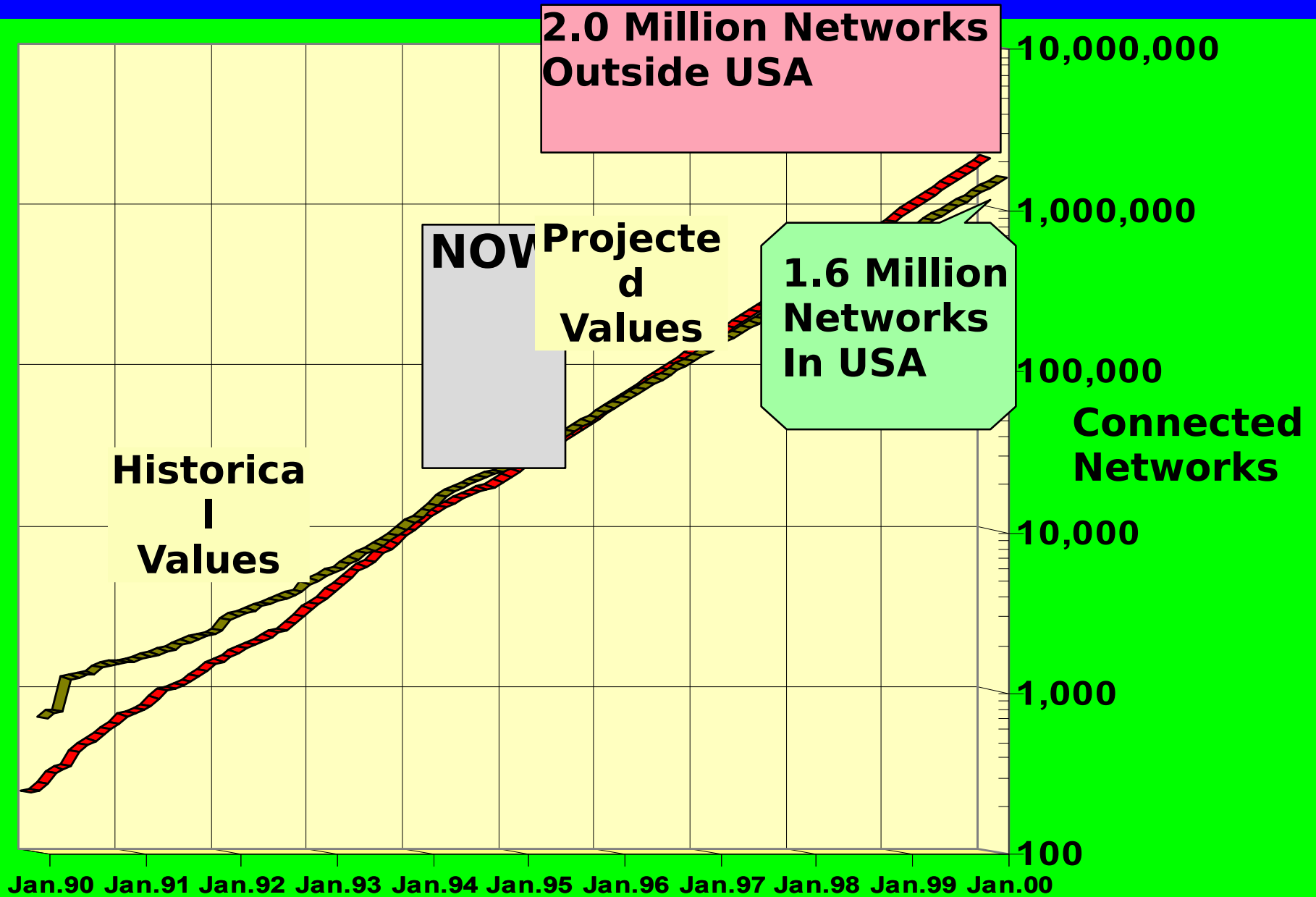
**In the year 2000, Internet will :**

- Have more than 100 million connected hosts**
- Have more than one million connected networks**
- Have traffic which exceeds voice telephony**
- Be ubiquitously available worldwide**
- Be ubiquitously available by all transport media**
- Support thousands of different applications**
- Be a seamless, intrinsic part of every communicative and collaborative aspect of our lives**
- Dramatically alter institutional, business, financial and political boundaries**

# Internet Host Counts 1990-2000



# Internet Connected Networks 1990-2000



# World Wide Web Traffic 1993-2000

Bytes per Month

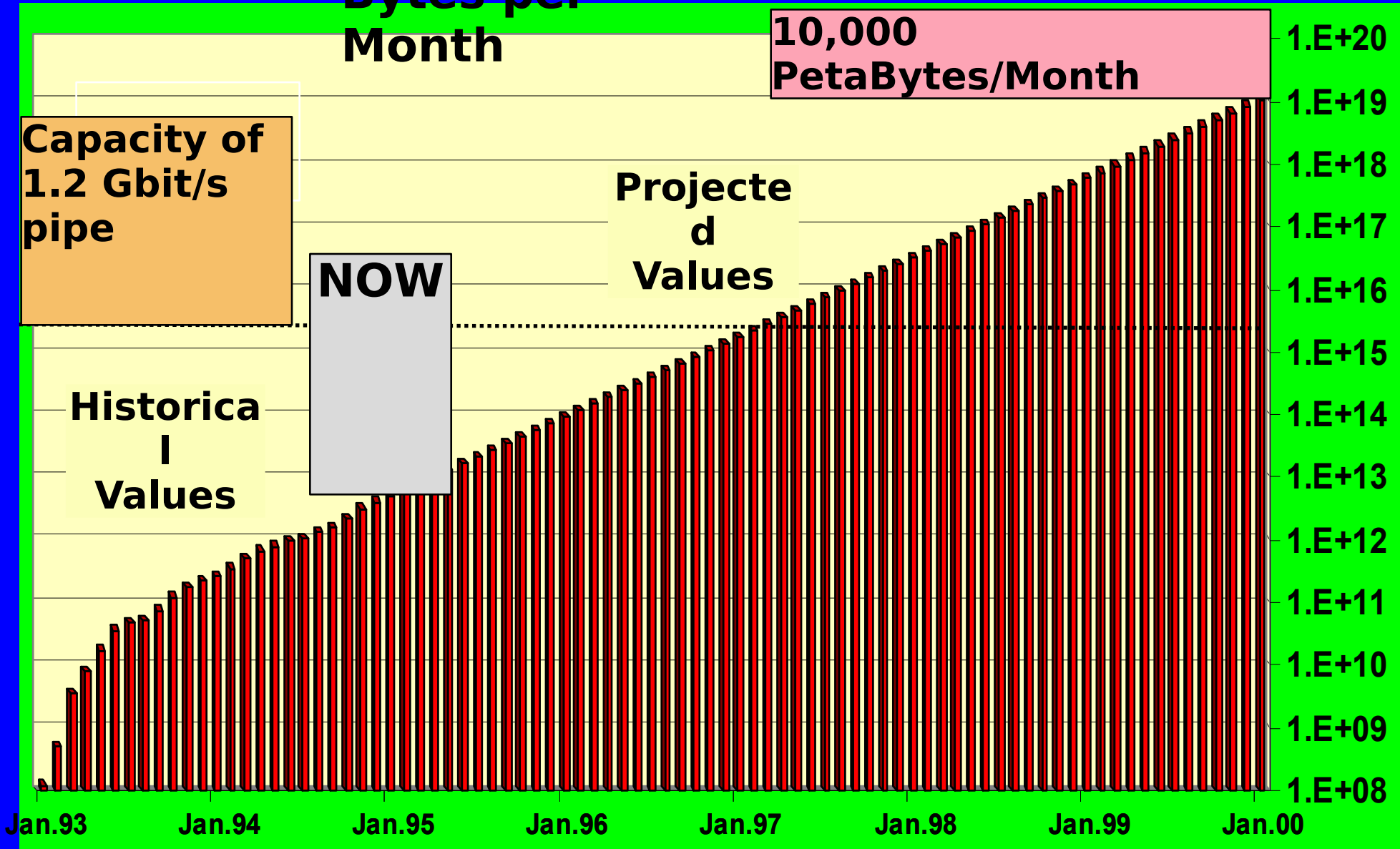
10,000  
PetaBytes/Month

Capacity of  
1.2 Gbit/s  
pipe

NOW

Projecte  
d  
Values

Historica  
l  
Values



# Reaching the Visions - Problems

- Ineffective telecom competition**
- Non-cost-oriented transport**
- Government regulation**
- Impediments to bottom-up information infrastructure**
- Changing institutions**
- Changing and educating people**

# Killer Applications

- WWW and clients (they're here)**
- Automatic hyperlinking**
- Advanced Knowbots and other distributed information discovery tools**
- Object oriented collaborative tools**