



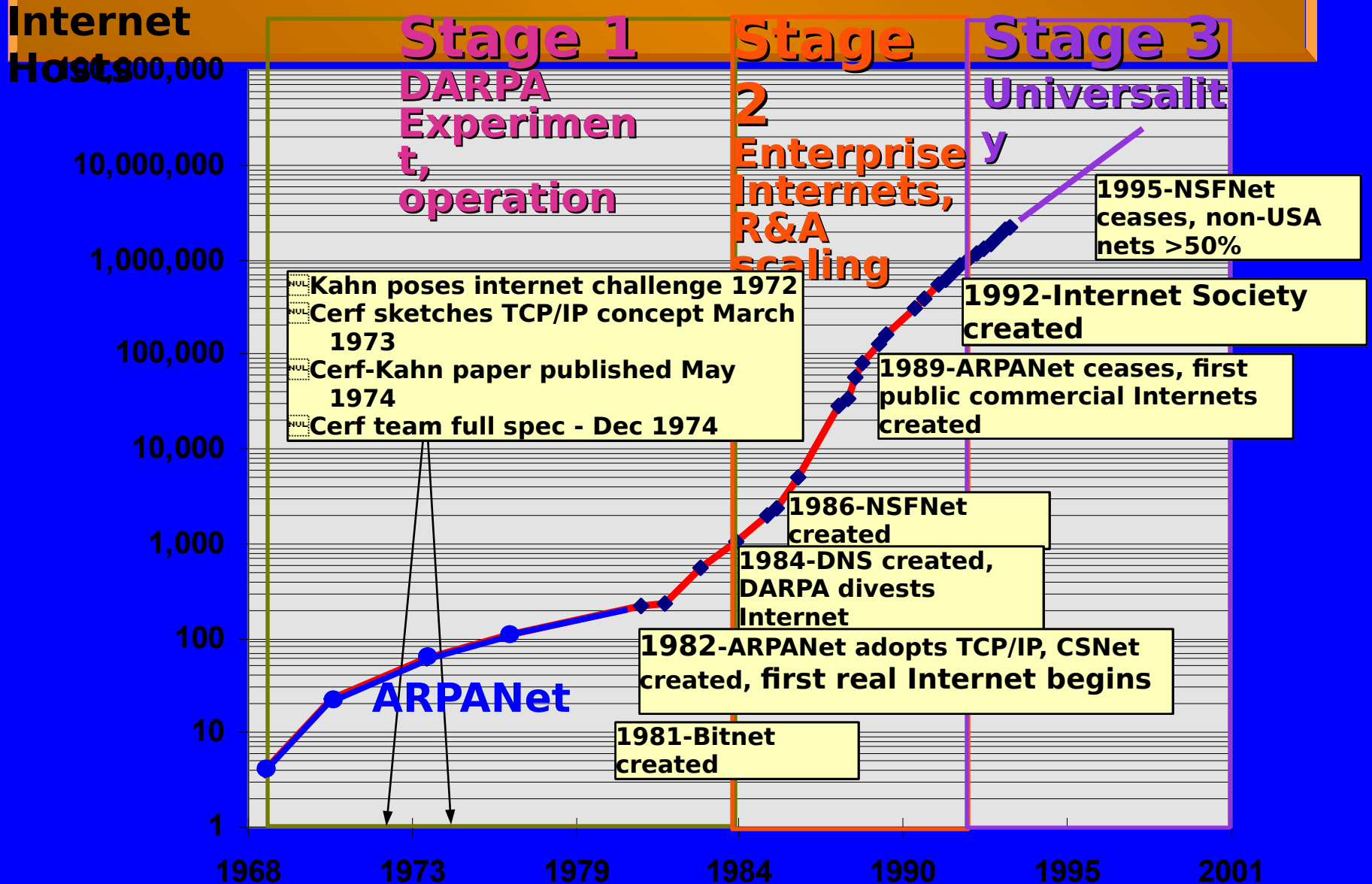
# Effective Information Infrastructure for Global Trade

- To discover offshore business opportunities
- For customers to discover and reach the enterprise
- To follow marketplace, technology, or supplier developments
- To attract and support customers
- To recruit employees and maintain skills and professional expertise
- To effectively and efficiently produce, sell, and deliver goods and services
- To effectively and efficiently comply with standards or government regulatory, tax, and trade requirements

# Internet Information Infrastructure for Global Trade

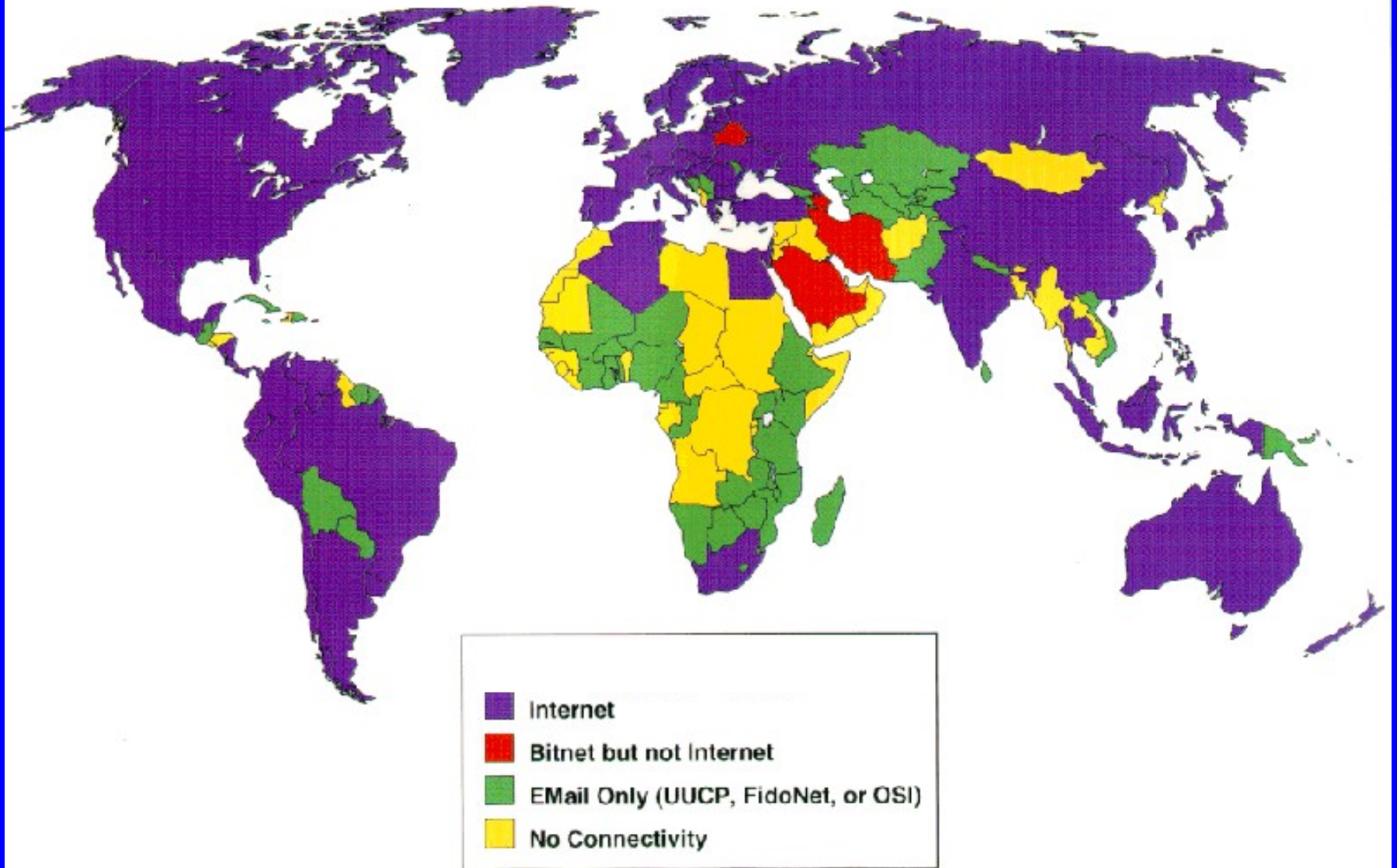
- is the universal open computer networking platform**
- is very robust and flexible**
- is especially valuable for developing countries**
- is very low cost where permitted by tariffs and regulations**
- can be effected and used with minimal skill sets**
- encompasses very large user and institutional base**
- is growing rapidly and becoming universally available**
- is developing dramatically**
- promotes desirable individual and institutional development**

# Internet Evolution



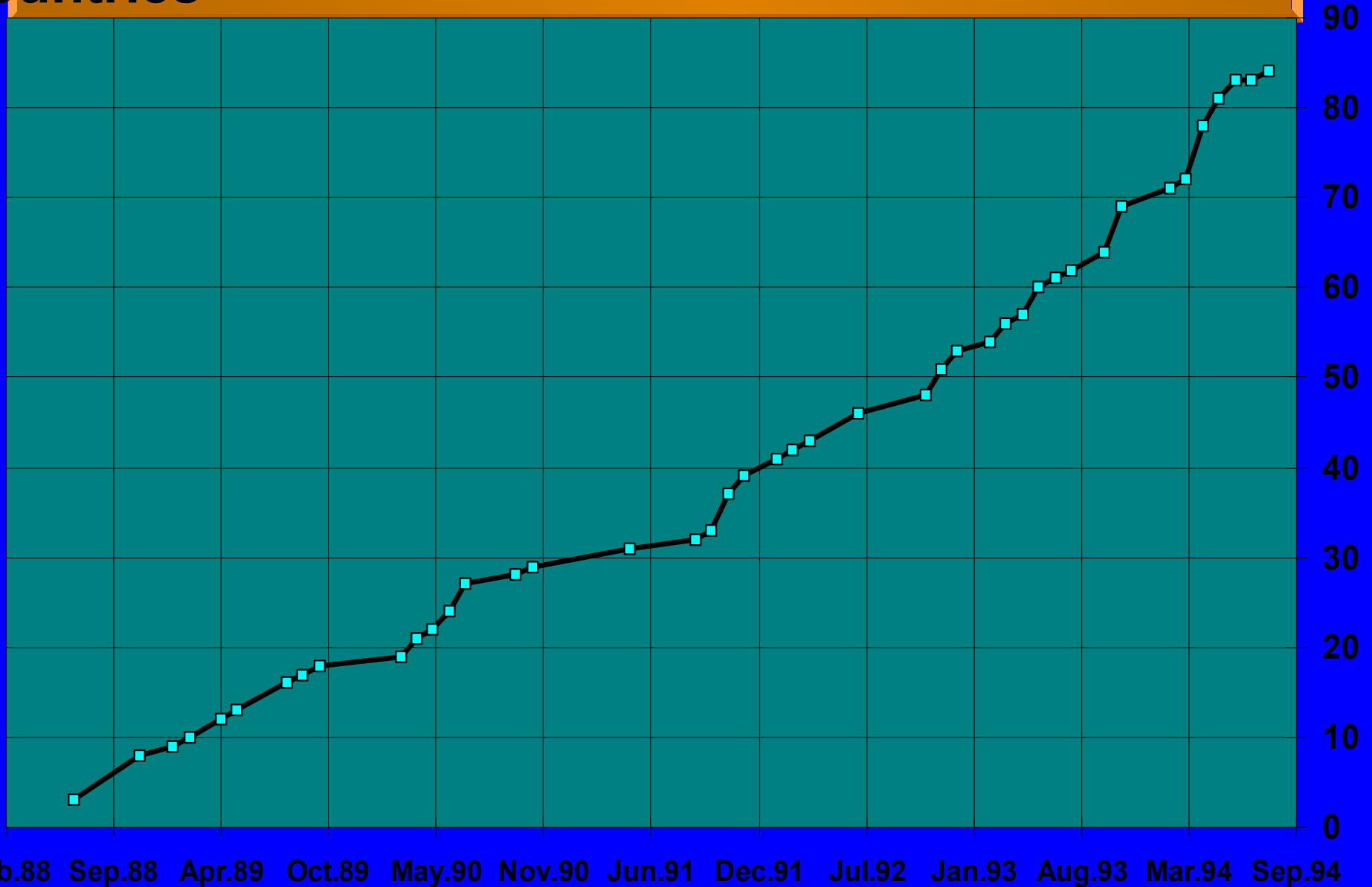
# Global Internet Connectivity

Version 11 - 11 July 1994

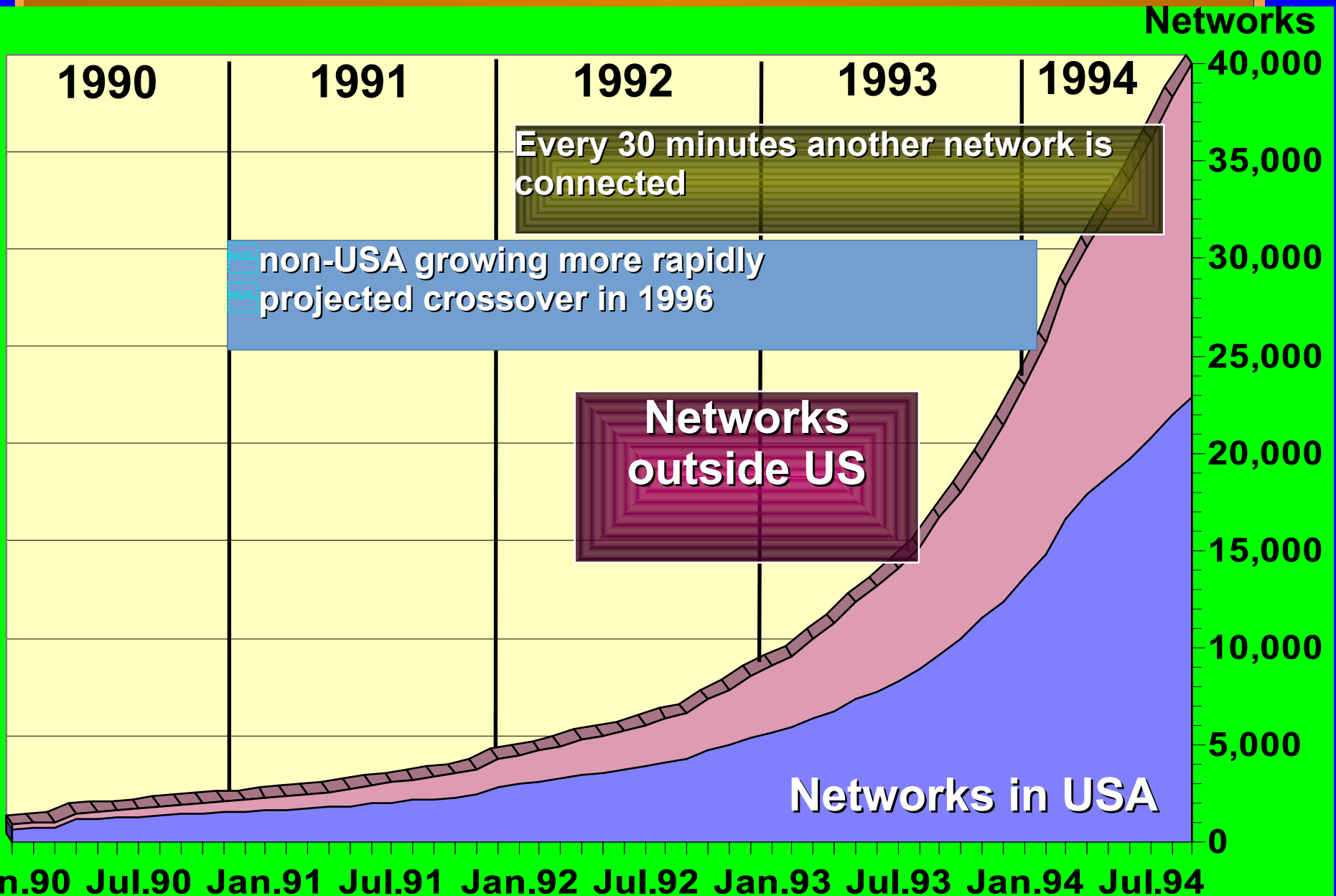


# Internet Global Backbone Connectivity

Countries



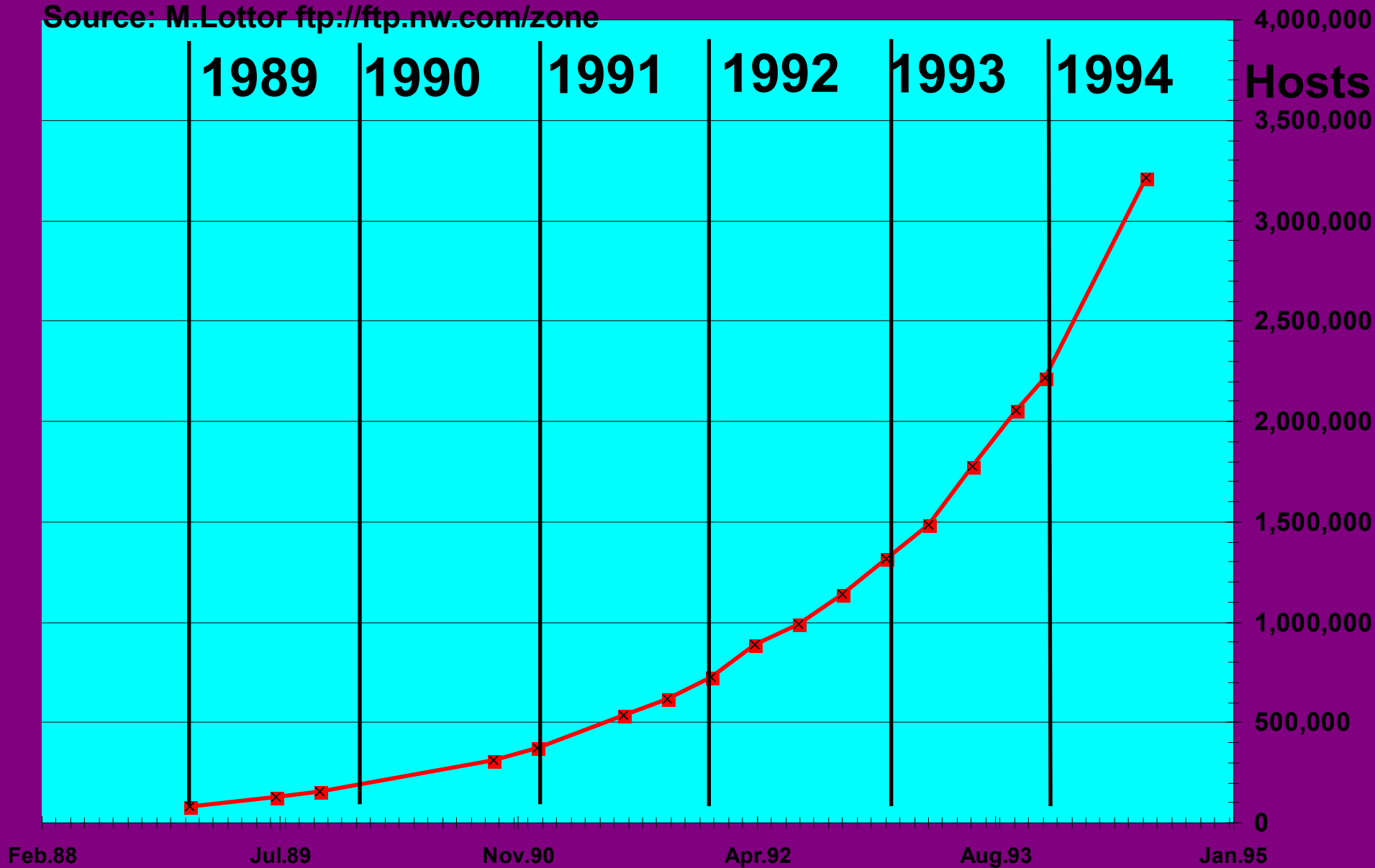
# Growth of The Internet



Source: <ftp://nis.nsf.net/statistics/nsfnet>

# Internet Host Counts 1989-1994

Source: M.Lottor <ftp://ftp.nw.com/zone>





# Internet Global Infrastructure Diffusion



Sources: Mark Lottor, Encyclopedia Britannica, Eric Arnum

# Factors Promoting Internet Diffusion

- Minimal or no regulatory constraints on value added and shared user networks
- Availability of cost-based private leased lines
- Availability of cost-based local access lines
- Availability of reasonably priced computers
- Facilities-based competition
- Individuals and institutions skilled in designing and operating tcp/ip computer networks
- Individuals and institutions capable of effectively using computer networking
- Time of entry into Internet community

# The Electronic Networking Universe

**Applications**

**Management**

**Mass Media**

**Voice  
Telephony**

**Inter-  
networking**

**Digital Transport Pipes**

# Services: Global Information Space

Allow Personal news feeds

Allow Personal browsing

Allow Finding People

Allow Group Interaction

Allow Finding Information

Allow Auto Gathering

Allow Device Monitor/Control

## Basic Services

- Transferring files
- Universal Email
- Remote Computer Use
- Fax

## Mailing Lists and Bulletin Board Services

- Automated lists
- News Distribution

## Interactive Information Delivery Services

- Gopher
- World Wide Web (Mosaic or Cello client)
- WAIS

## Directory Services

- WHOIS
- X.500
- Netfind
- Whois +++
- CSO
- Prospero

## Interactive Multiuser Services

- Collage, Talk, IRC, MUD, MOO, MUSH, MUCK

## Indexing Services

- Archie
- Veronica
- Web Worm
- online library catalog

## Active Agents

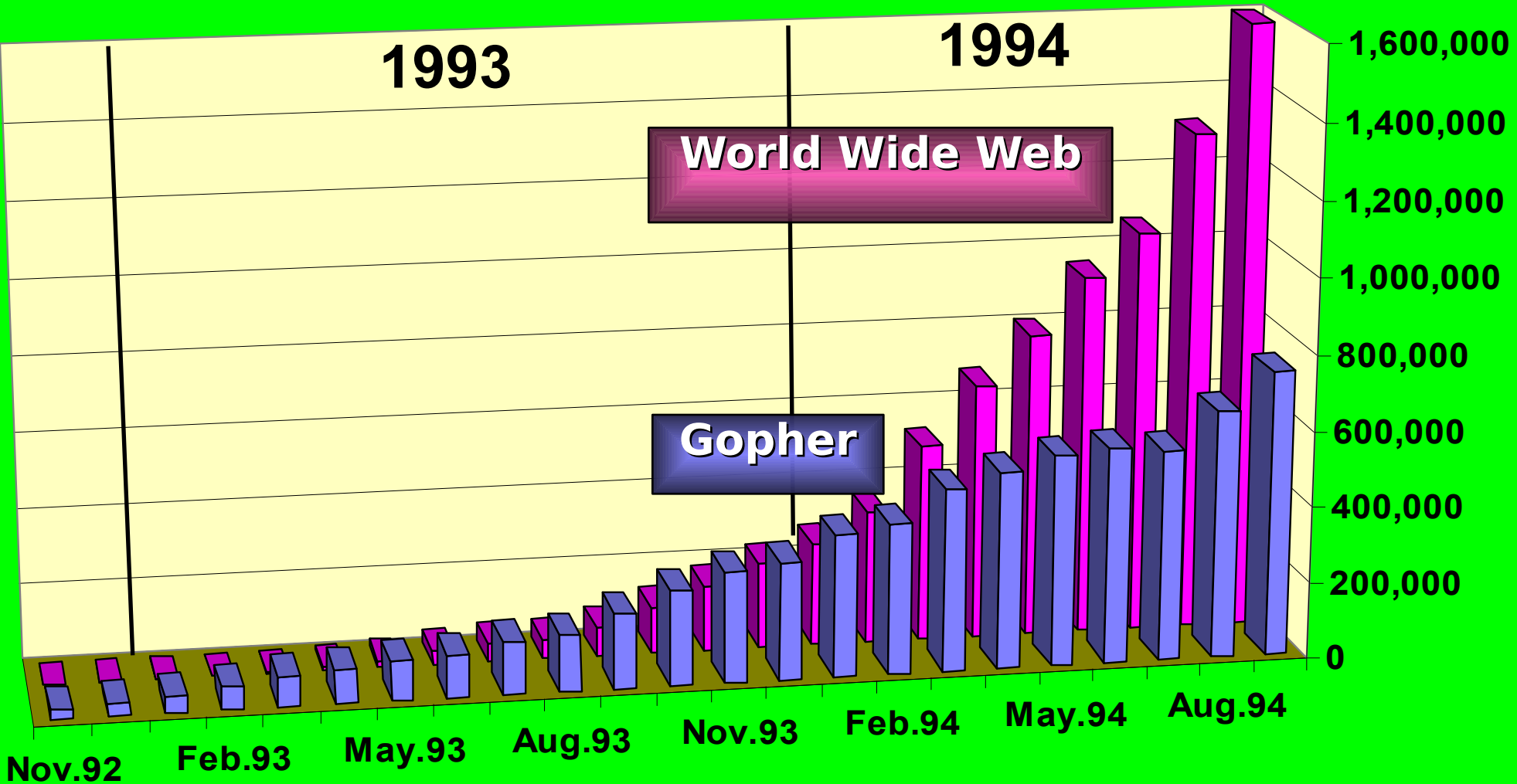
- Knowbots

## Network Management

- SNMP
- SNMP2

# Growth of Internet Browsing Services

Megabytes on NSFNet Backbone

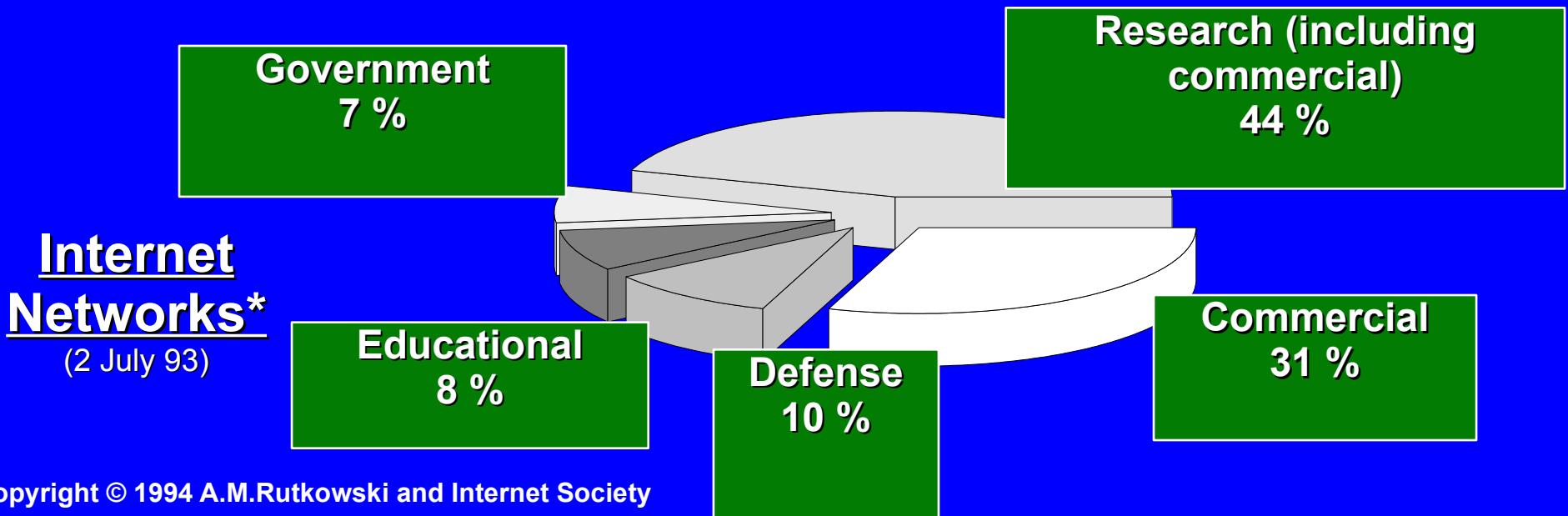


Source: <ftp://nis.nsf.net/statistics/nsfnet/1992-1994>

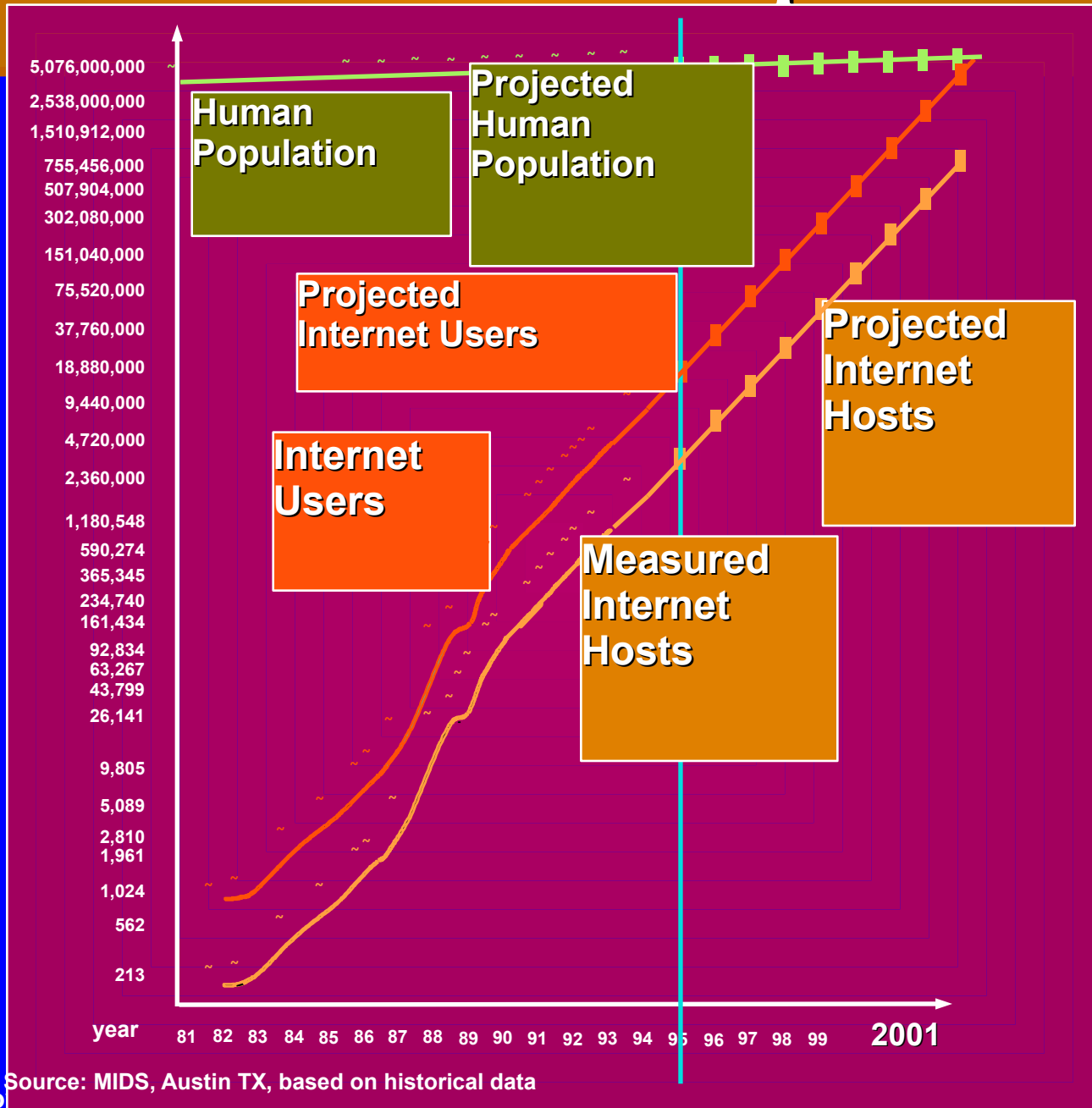
# Current Internet Dynamics

## Internet

- 38,470 (NSFNet 2 Sep 94) plus 10 % ? connected IP internets seen at other backbones
- 84 (74 verified) connected IP countries (1 Sep 94)
- '93 ave network growth 160 % (183 % non-USA)
- 3.212 million computer hosts; 46,000 domains (Aug 94)
- E-mail and other gateways to 154 countries (Jun 94)



# 2001: Users = Human Population ?



Source: MIDS, Austin TX, based on historical data

# What is the Internet Society ?

The global international organization for open systems internetworking and the *Internet*

A common mechanism for:

standards making

operational administration and coordination

research coordination and education

global cooperation among national, regional, and other international bodies

An international means for sharing information and encouraging development of internet-related infrastructure and use around the world

Members consists of individuals and organizations - commercial, governmental, and non-profit

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