Internet-2 in Israel Update

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מחב"א

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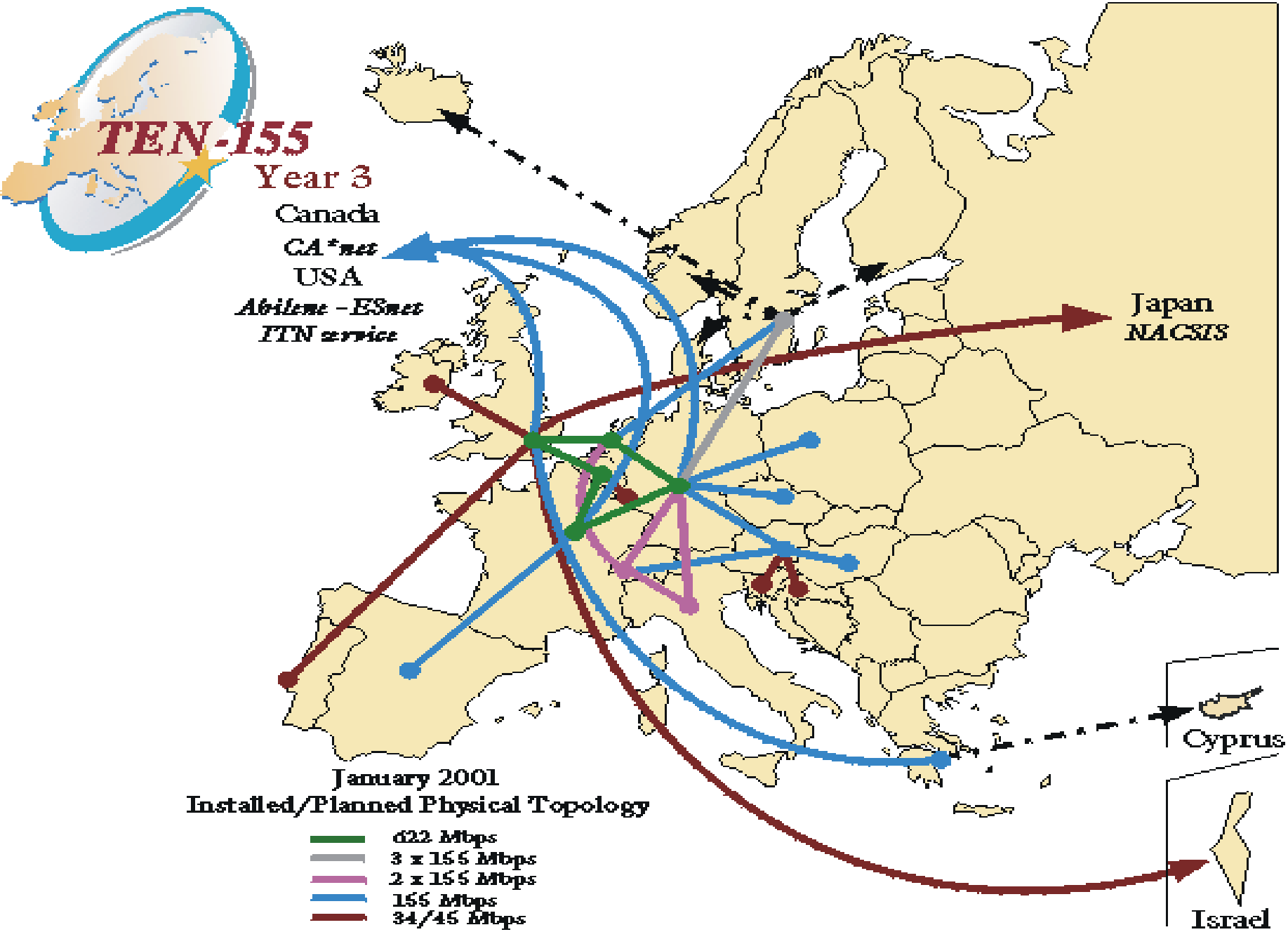
Internet Society of Israel

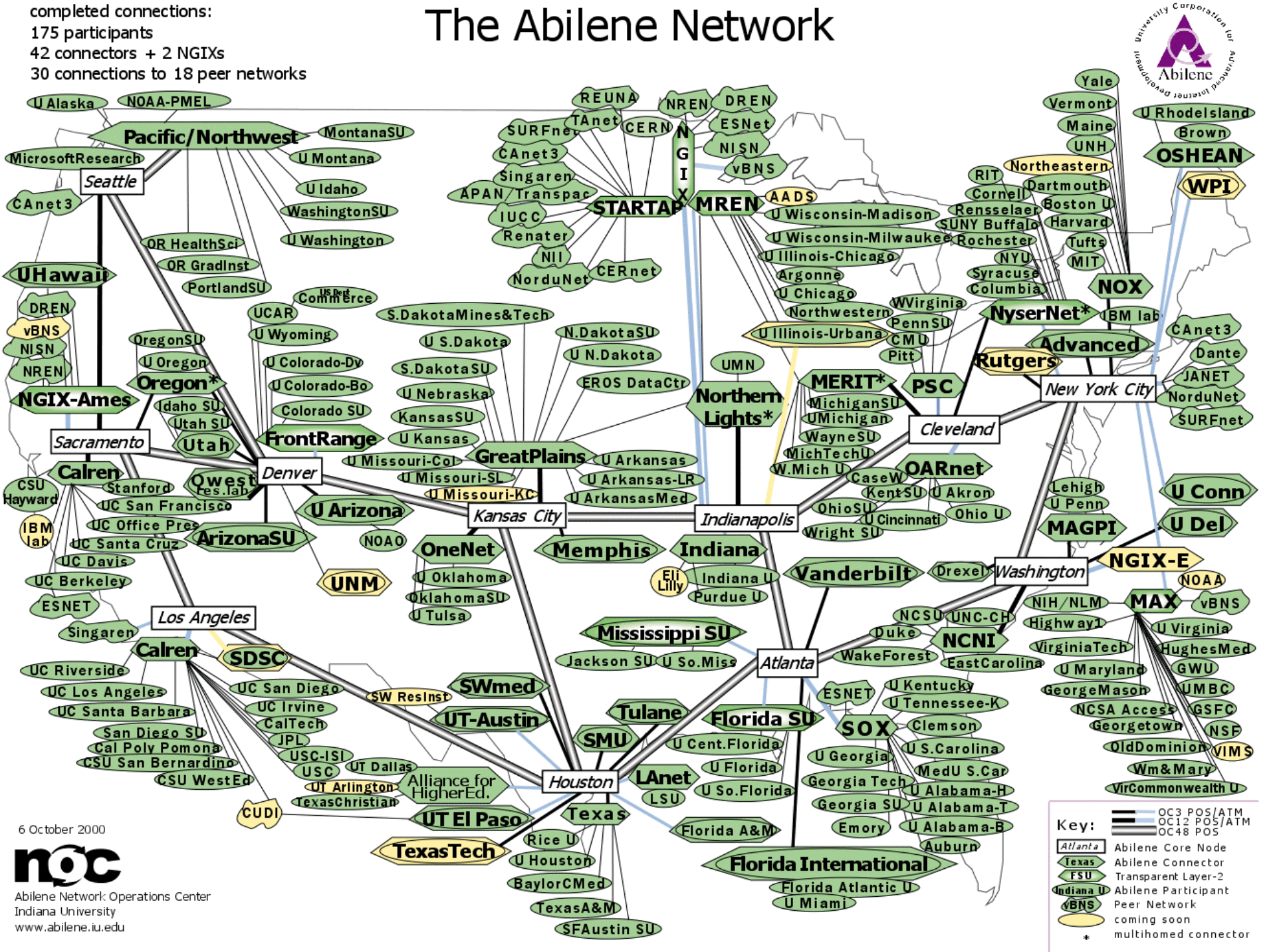
Purpose

- **To provide Israeli researchers with Quality of Service (Qos) and Class of Service (CoS) via the Internet, in order to conduct their R&D activities with colleagues in Europe and the USA**
- **Not intended to speed up standard Internet access**


TEN-155
Year 3
Canada
CA*net
USA
Abilene – ESnet
ITN service
Japan
NACSIS
Cyprus
Israel
January 2001
Installed/Planned Physical Topology
622 Mbps
3 x 155 Mbps
2 x 155 Mbps
155 Mbps
34/45 Mbps

The Abilene Network

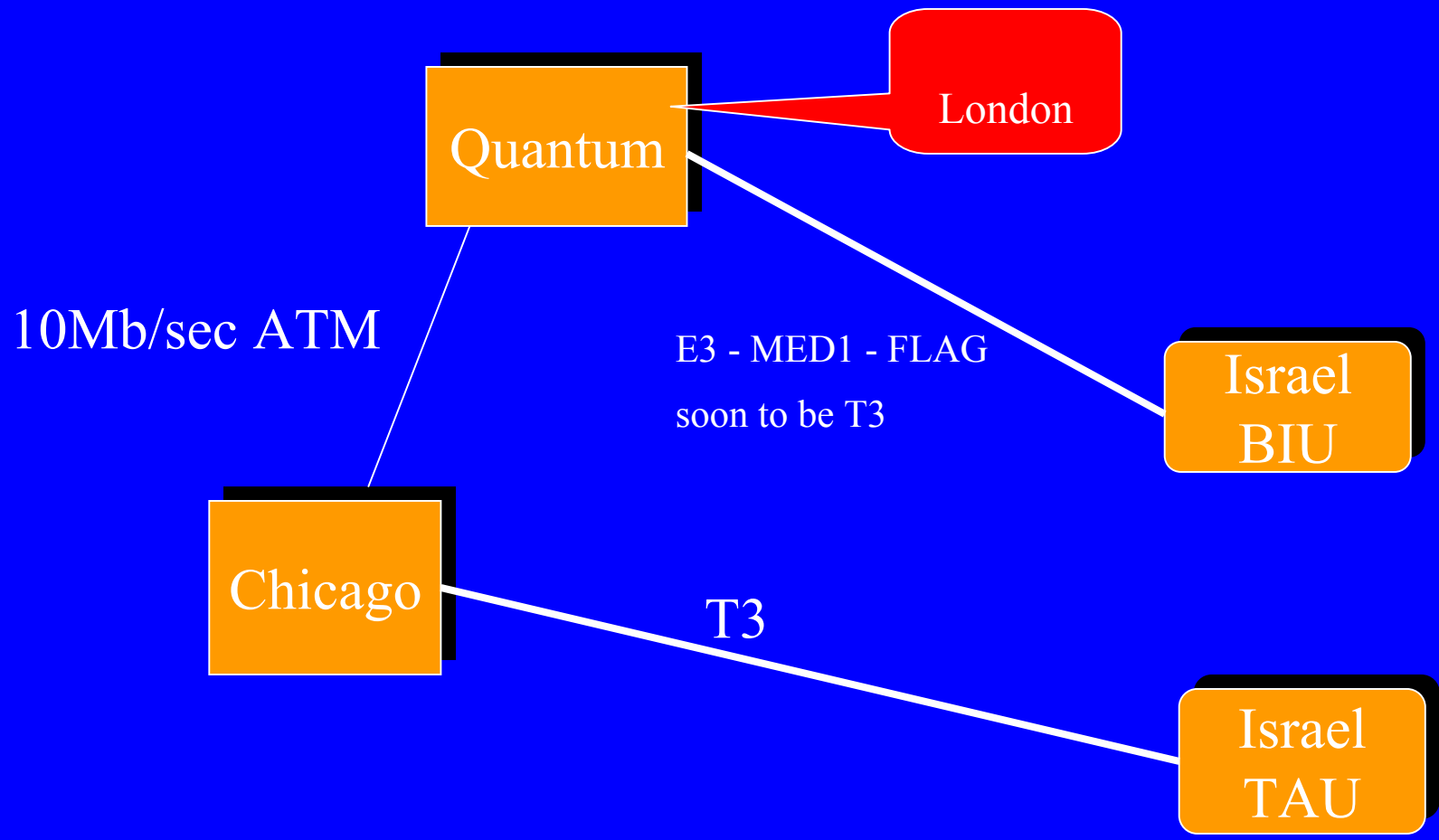
completed connections:
175 participants
42 connectors + 2 NGIXs
30 connections to 18 peer networks



International connectivity

- **Israsat/Gilat won initial tender for link to USA**
  - **T3 satellite from July 1999 - November 2000**
  - **switched to T3 fiber link via Golden Lines in November 2000**
- **E3 link to Europe via Golden Lines started in May 1999**
  - **upgraded to T3 fiber in April 2001**

Solution


Quantum
London
10Mb/sec ATM
E3 - MED1 - FLAG
soon to be T3
Israel
BIU
Chicago
T3
Israel
TAU

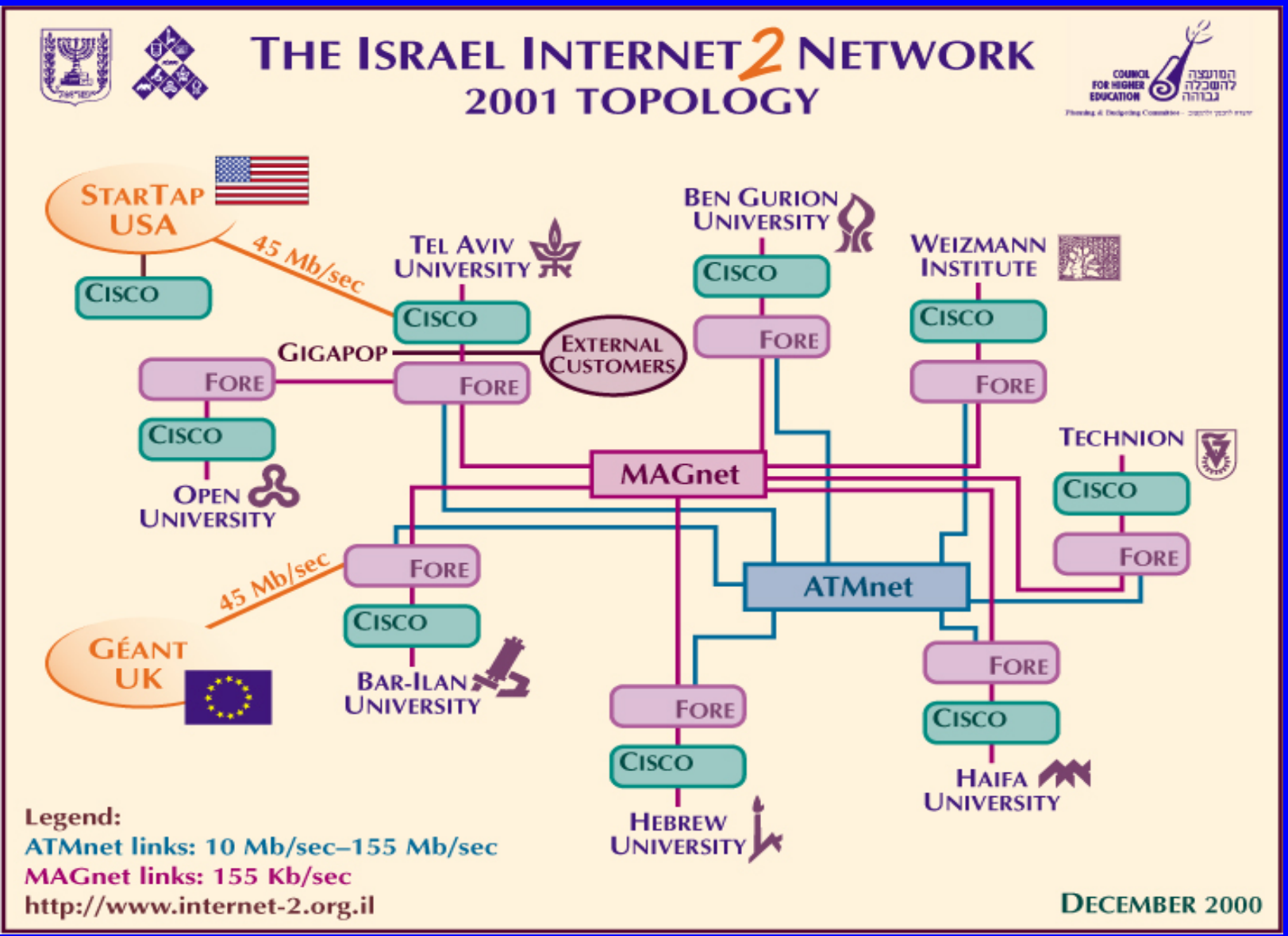
How much of the Internet?

- **2700 from Europe**
- **2500 from USA**
- **5200/97000 = 5.3% of the Internet is accessible via Internet-2**

Industry and international access

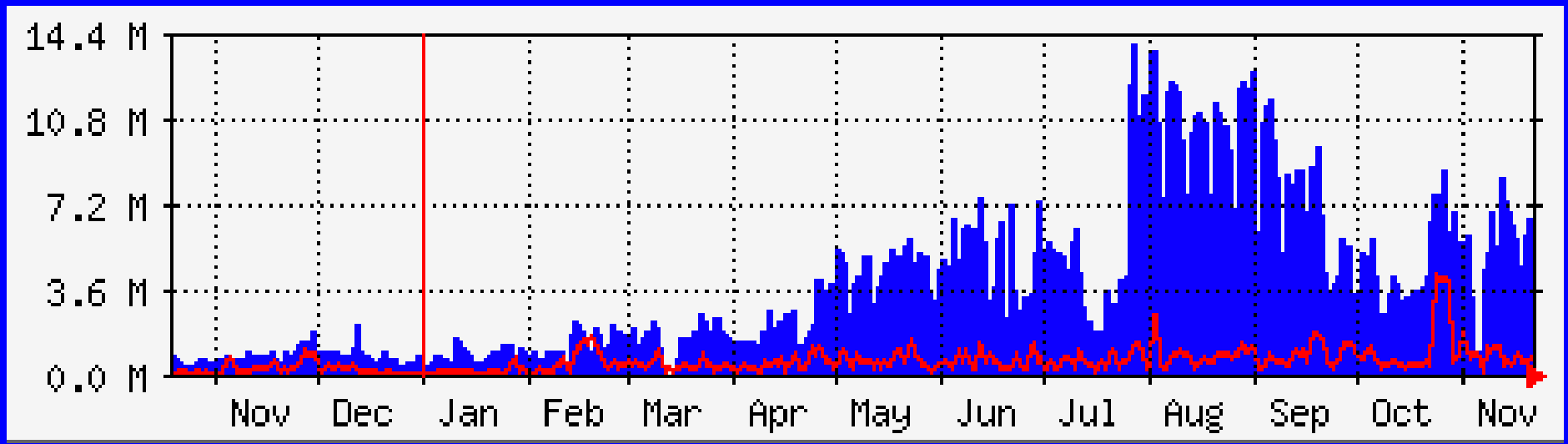
- **Not meant to replace Internet-1 (commodity) access**
  - **R&D units still required to maintain their Internet-1 access lines**
- **Will provide up to 45Mb/sec throughput for high-speed R&D projects**

Internet-2 design



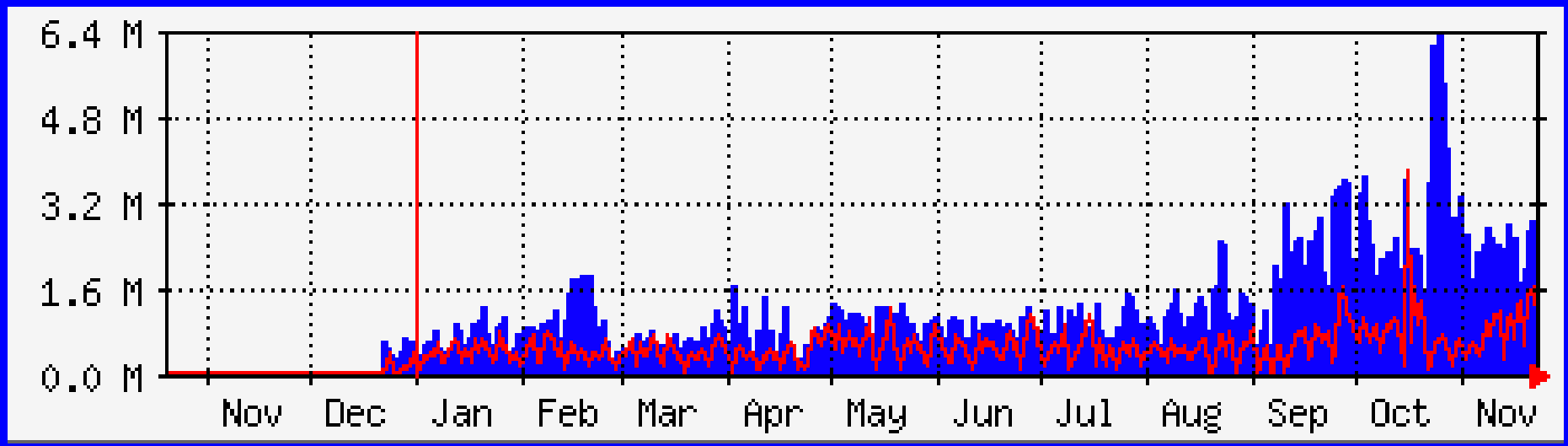
Yearly USA traffic

34Mbs מתוך

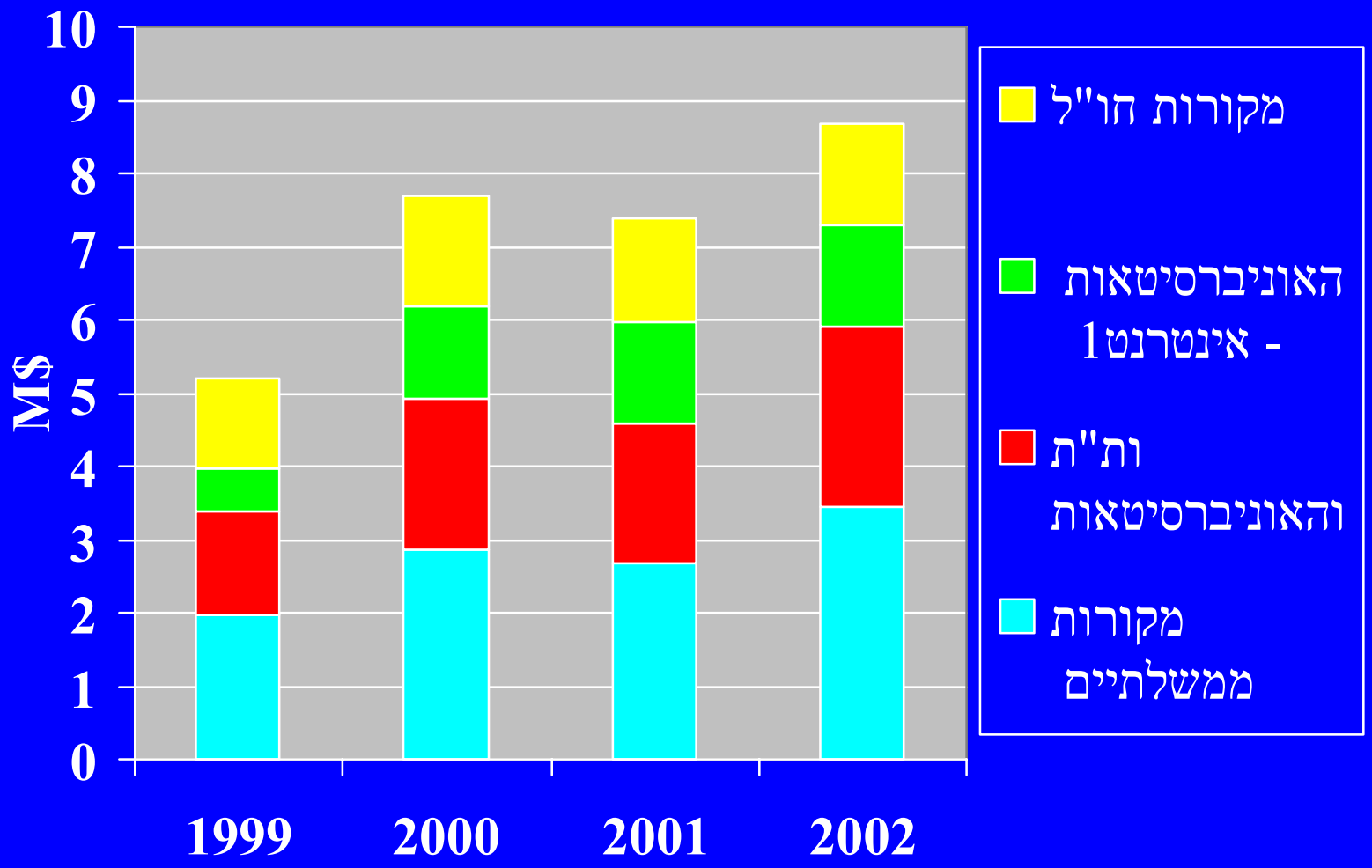


Yearly European traffic

22Mbs מתוך



Financing of Internet-2



Internet-2 external customers

- בזק
- MOST
- שירות המטורולוגי
- Bandwiz Ltd
- מכון הביולוגי (soon)
- Israel-1
- ביה"ח רמב"ם
- ביה"ח סורוקה

Management structure

- **Government decision from June 9, 1998 to set up Internet-2**
- **ועת היגוי**
  - **co-chairs of מנכ"ל משרד המדע and מנכ"ל ות"ת**
  - **members include: מנכ"ל הילה, יו"ר איגוד תעשיות האלקטרוניקה, מנכ"ל משרד התקשורת, סגן ראש אגף תקציבים במשרד האוצר**

Management - continued

- מנהלת
  - מנכ"ל מחב"א, נציג התעשיינים, נציג ממשלה
  - Many observers from: Ministry of Science, Ministry of Communications
  - handles all tenders and all day to day policy
- מחב"א
  - is mandated to handle all operational issues of setting up and running the network

Policy

- **Policy as to who/what qualifies as R&D industry**
  - **will be based on a per project basis**
  - **requests to connect have to be sent to the מנהלת**
  - **the מנהלת will set price levels**
  - **initially free till July 2001**

More?

- **http://www.internet-2.org.il**
  - **FAQ, news, maps, Authorized Use Policy, etc.**