The Early History of the Israeli Internet

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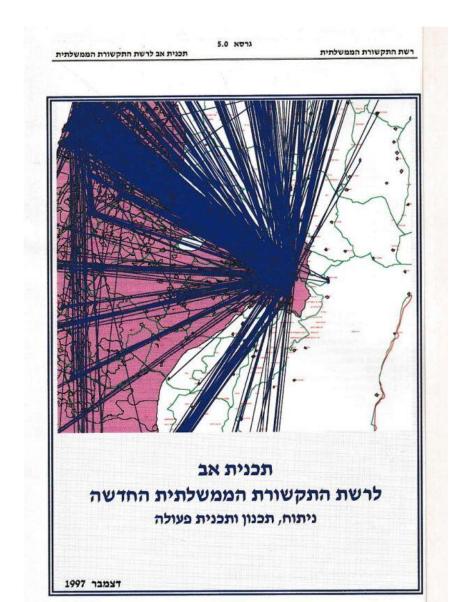
Petach Tikve December 2019

מי אני?

- 1981 בניתי רשת BITNET בארה"ב ●
- בניתי הרשת האקדמית מחב"א משנת 1984 🏓
 - בניתי רשת צהלנט 1995
 - בניתי ממשל זמין 1997
 - ועוד... •



ממשל זמין







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טיוטה

אפיון טכני לפרויקט הקמה ועדכון אתרי WEB בממר"ם

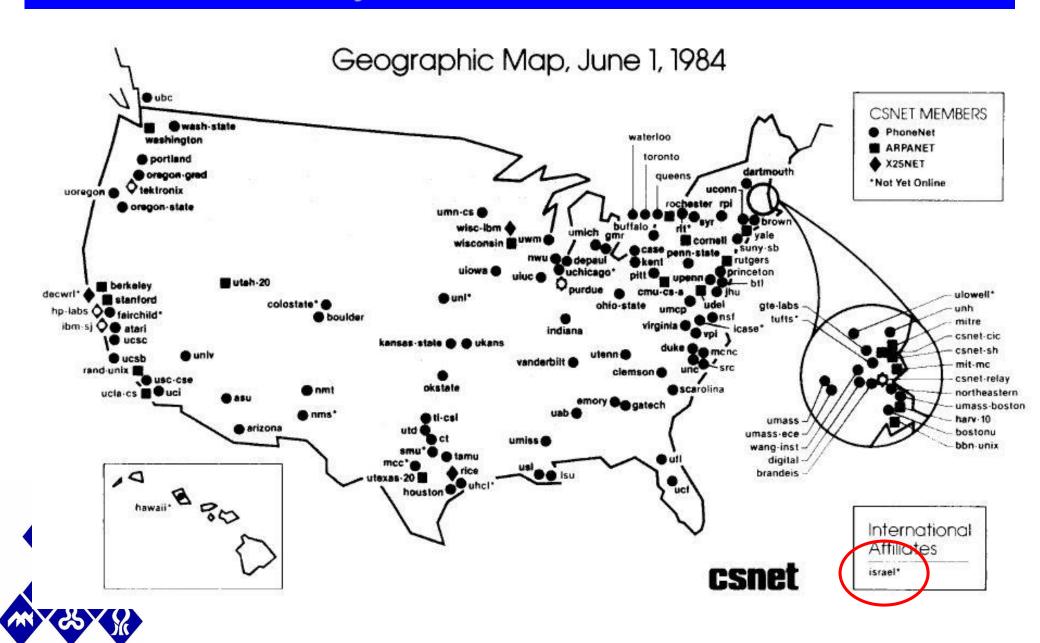




Internet precursors

- Csnet April 1984
 - 9.6kb IP/x.25 connection
- Bitnet/EARN August 1984
 - 9.6kb leased line to Europe





Israel Internet History

1 City University of New York, USA	05/05/81	
2 Yale University, USA	05/05/81	
3 Pennsylvania State University, USA	10/02/81	
4 New Jersey Educational Computer Network, L	k, USA 01/19/82	
5 Brown University, USA	01/20/82	
6 Cornell University, USA	02/06/82	
7 Princeton University, USA	03/29/82	
8 Columbia University, USA	05/03/82	
9 Rockefeller University	06/01/82	
10 Boston University, USA	06/0	6/82
11 University of California at Berkeley, USA	07/18	3/82
12 University of California at San Francisco, USA 07/27/82		
13 Massachusetts Institute of Technology, USA	08/0	5/82
14 University of Rochester, USA	08/2	25/82
15 State University of New York/Binghamton, USA 09/08/82		
16 Harvard University, USA	09/	16/82
70 IBM Israel Scientific Center, Haifa, IL	08/1	3/84
71 Technion - Haifa, IL	08/1	3/84
72 Haifa University, IL	08/1	3/84
73 Tel Aviv University, IL	08/13/84	
74 Weizmann Institute of Science	08/1	3/84



The first Bitnet & EARN connections



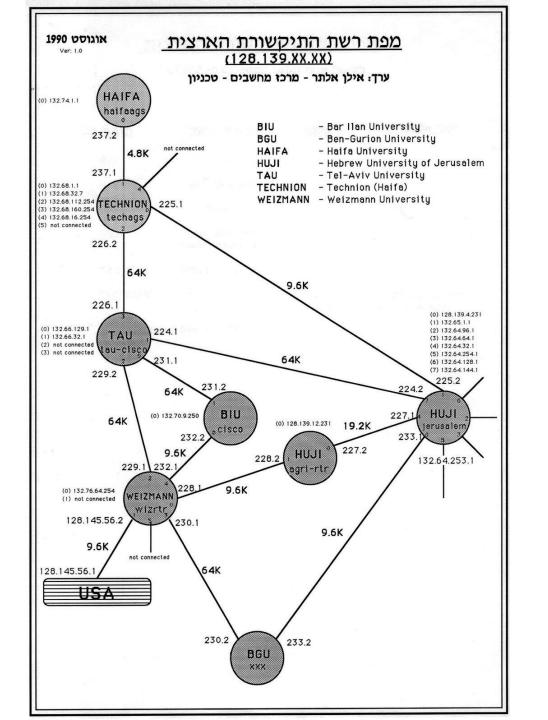






Internet and int'l circuits

- July 1989 מחב"א orders the first int'l 56kb link to
 Nysernet in USA
- Sept 1989 Bezeq informs מחב"א that a 56kb link will not be available for another 10 months
 - מחב"א orders a 9.6kb link
 - Bezeq informs מחב"א that מחב has to find a US carrier for the other half MCI is selected in Feb 1990
- June 26, 1990 9.6kb leased line Internet link to USA becomes operational



Int'l links

- March 1991 64kb satellite link via Bezeq is made operational
- Oct 1991 64kb link to Europe via Bezeq is made operational
- Jan 1993 128kb satellite link via Israsat
- Jan 1994 Sat link to US upgraded to 256kb
- Nov 1994 Link to Europe upgraded to 128kb
- Jun 2010 2x 2.5Gb to Europe

How ISPs got started in Israel

- June 1991 meeting with Ministry of Science, Ministry
 of Trade and Ministry of Communications to
 convince מחב"א
 to allow commercial companies
 access to this "Internet" thing
 - מחב"א requests self-limitation in license for only R&D companies as well as education
- Gov't continues to try to convince מחב"א to handle not only leased line companies but also dialup.
 - Feb 20, 1992 מחב"א turns down gov't to handle dialup users and recommends that gov't issue licenses for companies to be formed
 - Gov't accepts מחב"א view and issues at end of 1992 the first ISP licenses to Actcom, Dataserv and Netmanage



The birth of Israeli ISPs

- Inter-ministry committee decides which companies can connect to מחב"א
 - During 1992-1994 50 companies allowed to connect to מחב"א and hundreds to the new ISPs through gov't ITEX initiative
- May 1994 MoC grants open ISP licenses to Elron, Darcom, and Netmanage
- 1995 5 ISPs exist Elron, Netvision, Actcom, Shani and Dataserve

The first connections to the Internet

- 1. KavManche connected on Dec 7, 1992 (9.6kb)
- 2. IEC connected on Dec 9, 1992 (9.6kb)
- 3. Open U upgraded to 19.2kb on Mar 3, 1993
- 4. E&M Michshoov connected on Mar 7, 1993 (9.6kb)
- 5. BRM connected on Mar 8, 1993 (9.6kb) [BRM later became Checkpoint]
- 6. Datasrv connected on Mar 21, 1993 (64kb)
- 7. RAD connected on Mar 22, 1993 (19.2kb)
- 8. BezekZahav connected on Apr 23, 1993 (19.2kb)
- 9. Fibronics connected on May 4, 1993 (19.2kb)
- 10. Lanoptics connected on May 4, 1993 (9.6kb)
- 11. Applied Materials connected on May 4, 1993 (9.6kb)
- 12. Aleph Yissum connected on May 12, 1993 (9.6kb)
- 13. Onyx connected on May 23, 1993 (9.6kb)
- 14. Actcom connected on June 10, 1993 (9.6kb)
- 15. Bahai World Center connected on July 1, 1993 (64kb)
- 16. Netmanage connected on July 21, 1993 (19.2kb)



IIX

- Gov't informs מחב"א that all commercial companies have to be disconnected by May 1996
- Dec 31, 1995 איגוד האינטרנט decides to create an Israeli Internet Exchange modeled after similar US based systems
- The IIX is born



*.il domains

- .il is 3rd ccTLD established in 1985
 - .us in Feb 1985
 - .uk in July 1985
 - .il in Oct 1985
 - .au in Mar 1986
 - .nl in Apt 1986



*.il domains

- Decided on co.il, ac.il, org.il, etc. in 1992
- More formalized rules published in 1996
- The 1st Israeli domains
 - All universities: huji.ac.il, tau.ac.il, bgu.ac.il, etc. July 1990
 - Commercial
 - iec.co.il July 1992
 - Amutot
 - matimop.org.il Oct 1993
 - ISP
 - actcom.net.il Oct 1994 (bought out by Bezeqint)
 - School
 - misgav.k12.il June 1995 (gone)
 - Municipal
 - ladpc.gov.il July 1995 (changed to ladpc.co.il)

