

# Komuniciranje skozi zgodovino, 2. del



*A Fifty-Year Foundation for the Future*  
**IEEE COMMUNICATIONS SOCIETY**  
1952 - 2002

## Related Links:

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Chapter 6	<a href="#">Communications in the 21<sup>st</sup> Century</a>

telegraf, modulirana telegrafija čez 50 let, razvoj radijske in TV tehnologije, radarji...

transatlantski telefonski kabel (prvi 36 kanalov, 4kHz), poskusi s sateliti (Telstar 1, 2);

začetki digitalne komunikacije), povezovanje radarskih postaj (SABRE prvo komercialno omrežje IBM)

računalniška omrežja, satelitske povezave, laserji, optična vlakna, prehod iz analogne tehnologije v digitalno...


Internet, množična uporaba optičnih vlaken kot prenosnega medija; protokol TCP/IP

vseprisotnost Interneta in razvoj storitev, eksplozija mobilne telefonije

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## Communications History

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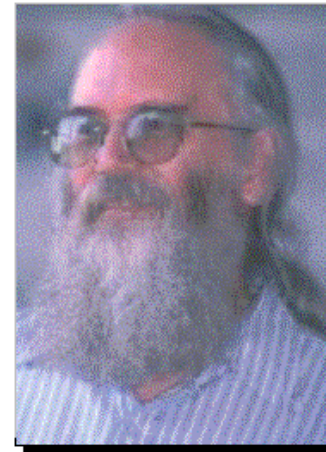
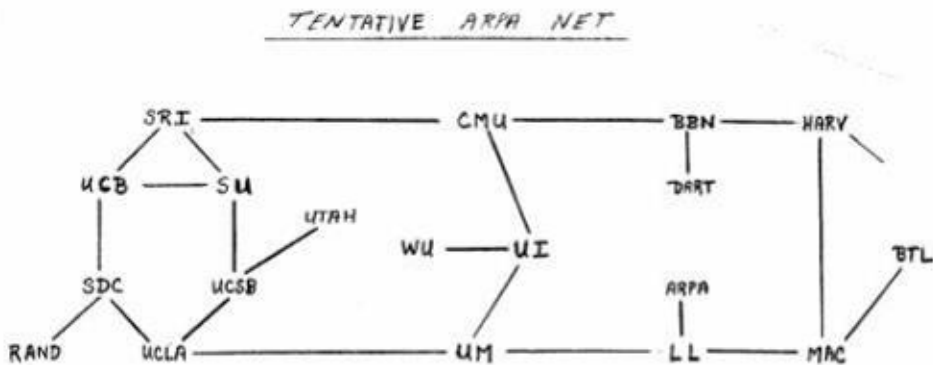
*Guglielmo Marconi with his radio equipment*

The Communications History Committee solicits articles on Communication History for our magazines, organizes communications history sessions at conferences, and commemorates significant anniversaries of the Communications Society. In 2012, the 60th anniversary of our Society, the Committee organized the updating, expansion and re-issue of the History of Communications book published for our 50th anniversary in 2002, and the production of a 25-minute recollections video in which many past Presidents of ComSoc look back on their experiences in the communications field and in ComSoc.

[➤ History Articles](#)

## Računalniki in omrežja:

- Od 1930 (prvi elektromehanski računalniki, IBM) do danes,
- v 1960-ih letih – omrežje ARPANET, Usenet
- Oktober 1972 ARPANET odpre se za javnost ==> Internet
- 1975, prvi mikroračunalnik; dostopnost posameznikom
- Razmah multimedijev in mobilnih komunikacij



Jon Postel  
1943-1998

med drugim  
[urednik RFC](#)



## ARPAnet (Advanced Reserach Projects Agency)

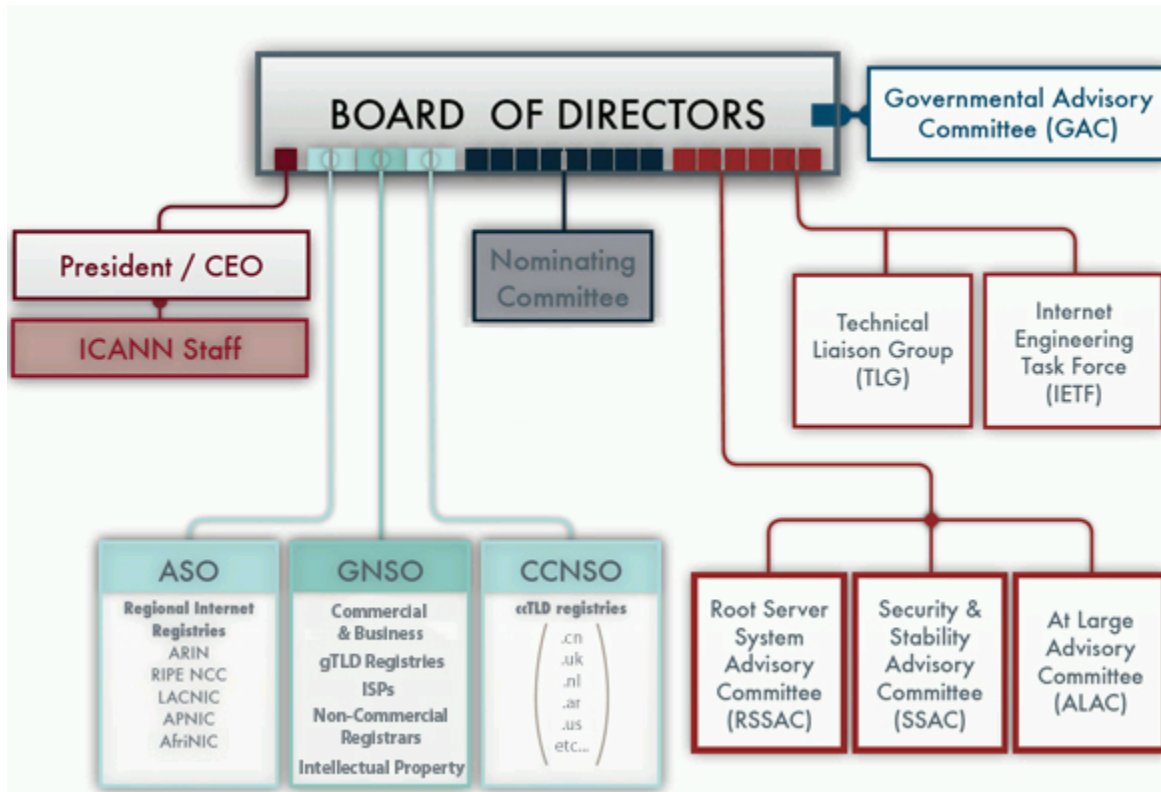
O (ne)vojaškem poreklu ARPAnet-a: [Charles M. Herzfeld](#), former director of ARPA. "ARPAnet was not created as a result of a military need, it came out of our frustration that there were only a limited number of large, powerful research computers in the country and that many research investigators who should have access were geographically separated from them."

The first data exchange over this new network occurred between computers at UCLA and Stanford Research Institute. On their first attempt to log into Stanford's computer by typing "log win", UCLA researchers crashed their computer when they typed the letter 'g'.

Four computers were the first connected in the original ARPAnet. They were located in the respective computer research labs of UCLA (Honeywell DDP 516 computer), Stanford Research Institute (SDS-940 computer), UC Santa Barbara (IBM 360/75), and the University of Utah (DEC PDP-10). As the network expanded, different models of computers were connected, creating compatibility problems. The solution rested in a better set of protocols called TCP/IP (Transmission Control Protocol/Internet Protocol) designed in 1982.



Upravljanje interneta v svetovnem merilu (informativno):



[Vinton G. Cerf, ICANN - poslanstvo](#)

# Internet v Sloveniji

arnes 

*Povezujemo znanje*

## Zavod Arnes

- **Predstavitev**
- Osnovni podatki
- Organizacija
- Zaposleni
- Katalog informacij
- Publikacije
- Mednarodne aktivnosti
- Novinarsko središče
- Dogodki
- Kontakti
- Lokacija

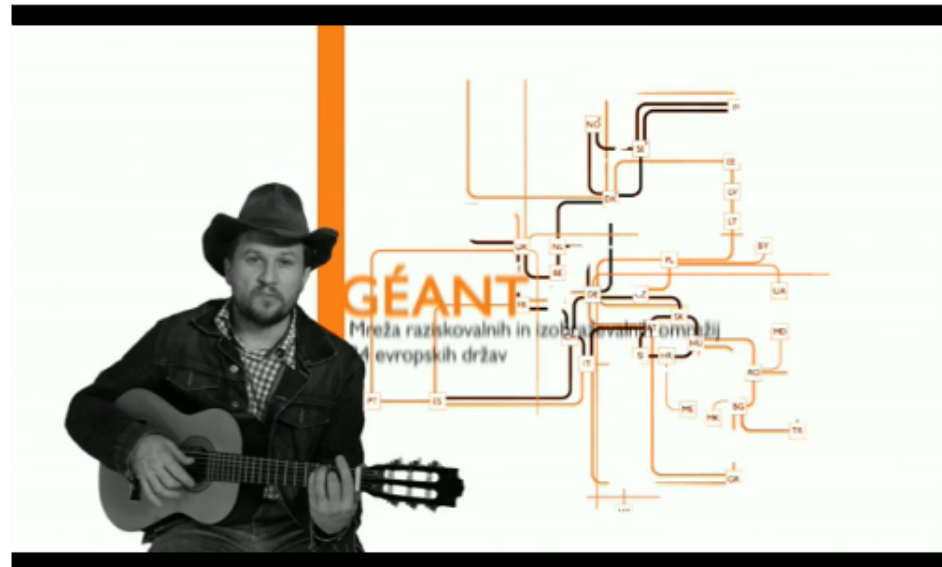
## Infrastruktura

## Storitve

## Pomoč uporabnikom

## Predstavitev zavoda Arnes

Akademsko in raziskovalna mreža Slovenije – **Arnes** je javni zavod, ki zagotavlja omrežne storitve organizacijam s področja raziskovanja, izobraževanja in kulture ter omogoča njihovo povezovanje in medsebojno sodelovanje ter sodelovanje s sorodnimi organizacijami v tujini.



Arnes gradi, vzdržuje in upravlja infrastrukturo, ki povezuje univerze, inštitute, raziskovalne laboratorije, muzeje, šole, baze podatkov in digitalne knjižnice. Svojim uporabnikom nudi

# Internet ≠ Svetovni splet

The screenshot shows the BBC News website interface. At the top, there are navigation tabs for Home, News, Sport, Radio, TV, Weather, and Languages. Below these, there are links for UK version and International version. The main header features the BBC News logo and a banner for 'BBC News in video and audio'. A sidebar on the left lists various news categories like Africa, Americas, Asia-Pacific, Europe, Middle East, South Asia, UK, Business, Health, Science/Nature, Technology, and Entertainment. The main content area displays the article title 'Fifteen years of the web' and a timeline of key events from 1991 to 2006. The timeline highlights two specific dates: August 6, 1991, when Tim Berners-Lee released web software, and December 12, 1991, when the first web server outside Europe went online. Below the timeline, there is a section titled 'The world' providing a brief history of the World Wide Web project.

**BBC NEWS**

Home News Sport Radio TV Weather Languages

UK version International version | About the versions

OPEN BBC News in video and audio

Last Updated: Saturday, 5 August 2006, 06:27 GMT 07:27 UK

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## Fifteen years of the web

Click and hold the arrows to go forward and backwards

August 1991	December 1991	No
 <b>6 Aug</b> Tim Berners-Lee releases web software <a href="#">More details</a>	<b>12 Dec</b> First web server outside Europe goes online <a href="#">More details</a>	

Aug May Oct Aug Jul Mar Aug Aug Dec Jul Apr  
1991 1993 1994 1995 1998 1999 2000 2002 2004 2006

### The world

Tim Berners-Lee formally introduced his world wide web project to the world on the alt.hypertext newsgroup. In the post he said the project "aims to allow links to be made to any information anywhere". It did this by using hypertext - a method for linking between different documents. Although invented many years earlier, Mr Berners-Lee's invention married hypertext with the internet. He also made available all of the files necessary for people to replicate his invention.

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<http://news.bbc.co.uk/2/hi/technology/5243862.stm>



# Mobilna telefonska omrežja



1946: prva uporaba mobilne telefonije: ZDA, AT&T

Leta 2007: dvajset let mobilne tehnologije (vir [BBC Technology News](#))

Namig:

[Tehnični muzej Slovenije, Muzej pošte in telekomunikacij, Polhov Gradec](#)

# Implikacije

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# Vaja/praktikum/mikroseminar

- Članek:

Patrice Flichy, 'New media history', in L. Lievrouw and S. Livingstone (eds.) (2002) *The Handbook of New Media*, pp. 136-151. London: Sage. (povezava v seznamu literature)